

**Instruction Manual**

**1021 Disc Player**

**Boulder Amplifiers**



## Thank You

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*We at Boulder Amplifiers would like to thank you for selecting the 1021 Disc Player for your audio system.*

*The 1021 represents the concerted efforts of numerous Boulder craftsmen, designers, engineers and technicians working to bring you the very finest audio playback components in the world and we are certain it will provide years of enjoyment.*

*Please take a few minutes to read through this owner's manual prior to the installation and use of your 1021. This will help you to understand the basic functions and abilities of the Disc Player and allow you to maximize the exceptional performance for which it was designed.*

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# Introduction

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## Features of the 1021 Disc Player

Every Boulder product goes well beyond expectations, and to that end the 1021 is a truly a Boulder. The design of the 1021 revolved around a number of innovations and design decisions that elevated the level of the basic CD player well beyond traditional levels. Some of the innovations in the 1021 are:

- Multiple format playback capability, including MP3, FLAC, OGG Vorbis, WAV, AIFF and standard CD (PCM) data
- Large, fully dimmable, full-color VGA display
- Automatic identification of artist, disc title and track listing on display
- Ethernet connectivity for downloading and updating of track information
- Extensive setup and preferences menu
- Ultra-accurate disc drive mechanism for the best possible reading of disc data
- “Read Ahead” buffering and multiple-read capability of disc data for musical accuracy
- Superior error correction and disc tracking software
- Custom DSP software for data extraction, processing, volume control, buffering and digital filtering
- Unique UpandOversampling DSP process increases digital bit and word to a minimum of 24-bits and 705.6 kHz
- Boulder’s proprietary Eigen digital filter algorithm for unmatched digital filtering
- DSP implemented digital volume control allows direct connection to amplifiers
- Second flash-memory implemented data buffer between DSP and DAC section prior to reclocking
- Boulder Precise Interval Clock located immediately adjacent to DAC section to eliminate jitter from the pre-converted datastream
- Extremely accurate Analog Devices 993 D/A conversion system
- Boulder 983 gain stage for exceptional voltage gain and analog buffering
- Two pairs of parallel balanced outputs on XLR connectors
- AES Standard digital output to feed outboard processors or recording devices
- Boulderlink connections for control and status indications with other Boulder products
- IR input compatible with external control systems
- VGA video output connector for use with secondary display monitors

## Safety Awareness

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- To reduce the risk of electrical shock, **never** expose this product to rain, moisture, or damp conditions.
- To reduce the risk of shock, **always** use a properly grounded three-conductor AC mains power cord. It is **not** recommended that extension cords be used with this the 1021.
- **Never** operate the 1021 with the top cover removed. There are no user serviceable parts inside.
- **Never** attempt to repair the 1021 yourself. In the event of a problem, please contact your authorized Boulder dealer immediately. Only qualified service personnel should attempt the disassembly or repair of any Boulder Amplifiers product.
- **Never** attempt to modify, alter, or otherwise change the function or design of any Boulder Amplifiers product. To do so will immediately void any warranty coverage.
- **Never** block or impede airflow through the top cover or any heatsinks.
- **Never** expose the 1021 Disc Player to excessive heat.
- **Never** replace a fuse with a type or rating other than those specifically indicated by Boulder Amplifiers.
- **Never** bypass any fuse or circuit breaker.
- **Always** disconnect the unit from the AC mains during electrical storms.
- **Always** keep electronics out of the reach of children or pets.

# Unpacking the 1021

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## Initial Inspection

Inspect the shipping container for damage. If the shipping carton, packing material, player or accessories are damaged or missing, notify your dealer immediately.

**Note:** *many shippers require notification and inspection within twenty-four (24) hours of delivery to determine the nature of damaged incurred.*

## Removal of the 1021 from the Carton

The 1021 Disc Player has been securely packed to guard against damage during transport. Double boxing has been selected for maximum protection. In order to install the 1021, both boxes must be opened and the unit removed from the inner box. Be sure to open the 1021 near the place where it will be installed so that it does not have to be carried. Once you have opened the boxes, follow the instructions below.

**Note:** *The 1021 is heavy. It is advisable that two people remove the unit from the cartons.*

1. Turn the box on one of its sides so that the open end is facing sideways.
2. Slide the 1021 out of the carton and near the location where it will be installed.
3. Remove each of the foam end-caps.
4. Lay the unit so that it is flat and the sealing tape is facing upwards.
5. Pull the tab on the end of each piece of tape so that the foam inner wrap can easily be removed.
6. Remove the foam wrap and lay the 1021 flat on its bottom.
7. Inspect the 1021 for any damage.

We strongly suggest that you save all packing materials. If the 1021 must be returned to your dealer or to Boulder Amplifiers, the original packing materials must be used for shipment to avoid damage. Neither Boulder Amplifiers nor the shipper can be held responsible for damages incurred during transit if the original factory packing is not used.

## Carton Contents

The following items should all be included with the 1021:

1. One AC Mains power cord suitable for use in your location
2. One Accessory Kit containing:
  - a. One (1) Remote Control
  - b. One Owner's Manual/Operator's Guide/RTFM Listing
  - c. Three (3) AAA batteries (in the Remote Control)

## AC Mains Voltage

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It is very important to check that the 1021 is configured for the proper operating voltage. Damage to the unit may occur if it is connected to the incorrect AC mains voltage.

This 1021 should be configured for \_\_\_\_\_ volts AC operation.

Verify that the AC input identified on the rear panel as shown below/here/wherever is the same as the AC mains voltage in your area. If the voltage does not match **do not** proceed with installation or connect the 1021 to AC power and contact your dealer immediately.

## Rear Panel of the 1021

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The following indications, connections and controls are present on the rear panel:

1. **Serial Number.** The serial number of the unit is engraved on right-hand side of the rear panel. Write the serial number here for your records: \_\_\_\_\_
2. **AC Mains Power Connection.** The 1021 AC mains power connection is a grounded (three-prong) 15A IEC connector. It is **not** recommended that the ground be lifted on the 1021.
3. **Master AC Switch.** This switch powers the 1021 ON and OFF.
4. **Fuses.** There are two fuse sockets on the rear panel to protect the player from excessive current draw. **Note:** Never replace a fuse with the incorrect rating or size.

- 5. Digital Output Connection.** The 1021 features an AES3 digital output connector to feed a digital server, recorder or separate digital processor. The digital output will output the native data rate of the file being played.
- 6. IR Input Connections.** The 1021 features an external IR port if the front panel Infrared Remote Receiver is not clear. The 1021 is also fully compatible with external control software such as Crestron or AMX via the IR connection. *Please contact your dealer for further information regarding this connection.*
- 7. Boulder Link Control and Connections.** The 1021 can be connected to other Boulder products for remote turn-on and status indications. *For further information regarding Boulder Link, please see page 33.*
- 8. 12V Trigger Connections.** The 12V trigger connection will allow you to turn on an amplifier with an equivalent connection by simply turning on the 1021. The amplifier will also turn off when the 1021 is placed in standby mode. *Please contact your dealer for further information regarding this connection.*
- 9. Analog Output Connections.** These are the main outputs of the 1021. There are two connectors per channel, and each connection is of equal sound quality. Left channel connections are marked with an "L" and right channel connections are marked with an "R." The 1021 can be connected to a preamplifier, surround processor, or directly to an amplifier.
- 10. Ethernet Connection.** The 1021 can be connected to your home computer network to locate and download any missing or available artist, track and album information for use on the display. If the unit is not connected to the Ethernet, some data may not be displayed properly.
- 11. External Display Connection.** A separate connector is provided so that the 1021's display information can be shown on a separate display, monitor, or control system. *Please contact your dealer for further information regarding this connection.*

## **Front Panel of the 1021**

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The following features and controls are present on the front panel:

- 1. VGA Display.** The 1021 features a large, bright 6.5" VGA display. Artist, track, and album information as well as tracklist information is shown here. The programming and setup menu controls are also located here. The following features and icons are present on the 1021's display:
- 2. Artist Name and Album.** If available, the name of the performing artist and album will be displayed here. In the event of a data CD or disc with multiple MP3 albums on it, the title given to the disc during the burning process will be displayed here.
- 3. Track Listing.** If available, the names of each track will be listed here. The track that is playing or that is cued to begin playing will always be presented in green. It will usually also be enlarged to make it easier to read. The enlarged text can be moved by scrolling through the track list by using the navigation buttons, but will return to the playing track if no action is taken within five seconds.
- 4. Play Status Indicator.** This portion of the display will always show the current status of the player, whether in Play, Stop, Pause, Scan, or Skip modes. It will also indicate the resolution of the track being played for a short time (bit and sampling rate).
- 5. Random Playback Indicator.** This icon will turn green when the Random Play mode has been selected. When random play is not selected, the icon will remain blue.
- 6. Repeat Play Indicator.** This icon will turn green when one of three Repeat Play modes (Repeat Track, Repeat Album, or Repeat A-B) is selected. When Repeat Play is not selected, the icon will remain blue.
- 7. Scan Mode Indicator.** This icon will turn green when the scan mode is selected. When scan mode is not selected, the icon will remain blue.
- 8. Setup Tools Indicator.** This icon will turn green when setup mode is selected. Pressing the Enter button while the icon is green will navigate to the 1021's setup menu options.

- 9. Volume Display.** The 1021 includes an internal DSP-based volume control and can be configured drive an amplifier directly. This portion of the display always shows the output level of the 1021 in –dB.
- 10. Redline Display.** The 1021 reads CDs in a unique way, always reading data ahead of the point in time where you are hearing the music. The Redline Display is composed of three parts: the Progress Bar shows the entire duration of the track (the dark gray line), the point in time where the track is playing is shown by the Redline, and the Buffer Bar shows how far ahead the 1021 has read the disc (the light gray line). The Redline Display also shows the elapsed track time during playback on the left-hand side of the Progress Bar and the remaining track time on the right-hand side of the Progress Bar.
- 11. Infrared Remote Receiver.** The IR Remote Receiver is where your 1021 receives commands from the remote control. Do not cover or block the IR Receiver.
- 12. Disc Drawer.** The Disc Drawer is where a disc is loaded into the 1021.
- 13. Status Indicator LED.** When the 1021 is in standby mode, this LED will cycle from green to red to amber. When the 1021 is powering up, the LED will blink red and green rapidly. When the 1021 is active, it will illuminate amber continuously.

The Following user control buttons are present on the front panel:

- 14. Navigate Left/Fast Reverse.** This button is used to navigate the menu system and to scan backward through tracks.
- 15. Navigate Up.** This button is used to navigate the menu system.
- 16. Navigate Down.** This button is used to navigate the menu system.
- 17. Navigate Right/Fast Forward.** This button is used to navigate the menu system and to scan forward through tracks.
- 18. Enter.** This button is used to make selections within the menu system.
- 19. Play.** This button is used to begin playback of discs inserted in the 1021.

- 20. Pause.** This button is used to temporarily pause music playback.
- 21. Stop.** This button is used to stop music playback. When pressed twice, this button will also clear any playlist programming.
- 22. Volume Up.** This button will raise the volume output level of the 1021 if the volume control is activated.
- 23. Volume Down.** This button will lower the volume output level of the 1021 if the volume control is activated.
- 24. Options.** This button engages the player's Options list.
- 25. Skip Forward.** This button advances playback to the next track within the playlist.
- 26. Skip Back.** This button moves playback to the previous track within the playlist.
- 27. Open/Close.** This button opens and closes the disc drawer.
- 28. Standby.** This button activates and places the 1021 in standby mode.

## **Installing the 1021**

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Installation of the 1021 is simple and straightforward. Be sure all cables to be connected to the 1021 are already in place. **Note:** *as the 1021 is very heavy, it is advisable to have two people install the 1021 to prevent damage.*

1. Place the 1021 on the shelf or stand where it will be permanently installed. If the Player is going to be installed in a cabinet or rack, please be aware that adequate ventilation will be necessary. The 1021 should not be completely enclosed without some sort of forced air ventilation.
2. If you will have access to the rear panel after placement, the 1021 should now be moved into its final position. Be sure that there is adequate ventilation for the rear panel heatsink and the vents in the top cover. There should be at least 3.5" of space on all sides if the 1021 is to be placed in a rack or enclosure.

3. If you will not have access to the rear panel after placement, all interconnect and system cables should be connected before moving the 1021 into its permanent location. Please see **Connecting the 1021 to Your System** in the next section.

## **Connecting the 1021 to Your System**

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The 1021 Disc Player is a very versatile machine and can be connected to your audio/video system in a number of different ways. To maximize the performance of your 1021 Disc Player, please follow the appropriate instructions for your system and use.

All connections should always be made with the rear panel Master AC Switch in the OFF position.

### **Connecting the 1021 to a Preamplifier**

To connect the 1021 to a preamplifier, the volume control must first be set to “Fixed” in the menu system (see page XX). For optimum performance, it is recommended that the 1021 be connected in an all-balanced, 3-pin XLR system.

Connect the **Left** channel interconnect cable (usually white) to one of the **Left** channel output connectors of the 1021. As both connectors are the same, it does not matter which left channel connector is used. The other end of the cable should be connected to a left channel preamplifier input.

Connect the **Right** channel interconnect cable (usually red) to one of the **Right** channel output connectors of the 1021. As both connectors are the same, it does not matter which right channel connector is used. The other end of the cable should be connected to a right channel preamplifier input.

### **Connecting the 1021 Directly to an Amplifier**

When the internal volume control is activated, the 1021 is capable of driving the inputs of an amplifier directly.

To connect the 1021 directly to an amplifier (without the use of a preamplifier), the volume control must first be set to “Variable” in the

menu system (see page XX). For optimum performance, it is recommended that the 1021 be connected in an all-balanced, 3-pin XLR system. **Note:** the volume control **MUST** be set to Variable mode or possible system damage may occur!

Connect the **Left** channel interconnect cable (usually white) to one of the **Left** channel output connectors of the 1021. As both connectors are the same, it does not matter which left channel connector is used. The other end of the cable should be connected to the left channel amplifier input.

Connect the **Right** channel interconnect cable (usually red) to one of the **Right** channel output connectors of the 1021. As both connectors are the same, it does not matter which right channel connector is used. The other end of the cable should be connected to the right channel amplifier input.

### **Connecting the Second Set of Outputs**

The 1021 is outfitted with two pairs of output connectors to drive secondary amplifiers, recorders, or subwoofers. Both pairs of outputs will operate in tandem and cannot be controlled independently, whether the volume control is in Fixed or Variable mode.

Connect the **Left** channel interconnect cable (usually white) to the remaining **Left** channel output connector of the 1021. The other end of the cable should be connected to the left channel input of the component you are connecting.

Connect the **Right** channel interconnect cable (usually red) to the remaining **Right** channel output connector of the 1021. The other end of the cable should be connected to the right channel input of the component you are connecting.

### **Connecting the 1021 with Unbalanced Connections**

It is strongly recommended that the 1021 be connected with balanced connections wherever possible in order to enjoy the best possible performance for which it was designed. If it is not possible to use balanced connections, it is still possible to connect the 1021. There are two methods of connecting the 1021 with unbalanced connections:

1. Special Boulder balanced-to-unbalanced adaptors are available. Please contact your Boulder dealer to purchase adaptors.

2. Interconnect cables can be re-terminated with an unbalanced connection on one end. Please contact your cable dealer for more information regarding this method.

### **Connecting the IR Input**

If the 1021 will not be located where the handheld remote control can be used, and external infrared receiver can be placed in a remote location to route the remote signals to the rear panel IR Input 1/8" mini-jack. The 1021 can also be controlled by external control and automation software common in large or custom installations. The IR Input is compatible with all common control systems. For more information regarding this connection and method of control, please contact your Boulder dealer.

### **Connecting an Amplifier to the 12V Trigger**

A 12V remote ON/OFF 1/8" mini-jack connector is provided on the rear panel of the 1021 for remotely switching amplifiers ON and OFF if they have a proper companion connector. Please contact your Boulder dealer for further information about this feature.

### **Connecting to the Ethernet**

The 1021 Disc Player is capable of direct connection to the Ethernet so that it can download and display any available artist, album, and track list information about discs that do not already contain metadata or CD Text. In order to do so, the 1021 must be connected to your computer network via a common CAT-5 data cable and an active Internet connection must be present.

With the 1021 turned OFF via the rear panel Master AC Switch, connect the 1021 to your computer network. When the 1021 is then turned on and switched to Active mode via the front panel Standby button, it will automatically connect to the Internet via your computer network. No address assignments are necessary.

### **Connecting an External Display**

The 1021 Disc Player has a large, 6.5" display that is easy to read from a distance. The 1021 is also capable of driving an external display device (such as a computer or video monitor or projector).

To use the external display feature of the 1021, the monitor or projector must have a VGA input connection. All graphic information will be sent at

the native resolution of the 1021 Disc Player (1280 x 800). Please contact your Boulder dealer for further information regarding the External Display connection to your computer, video monitor, or home theater video display system.

## **Connecting the 1021 to AC Mains**

Once all of the necessary rear panel connections have been properly secured, the 1021 can then be connected to AC mains and powered up. The 1021 Disc Player uses a standard 3-pin 15A IEC power connector. Install the provided power cable to the AC Mains Power Connection. The unit can then be connected to your AC mains wall outlet and the Master AC Switch moved to the ON position. The front panel Status Indicator LED should now be illuminated.

## **Remote Control**

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A hand-held infrared remote control is included with the 1021. This remote control is machined out of aircraft grade aluminum and is relatively heavy. Please be careful not to drop the remote on furniture or flooring.

If you notice that your remote control seems to not be working properly, the batteries are probably low. Check the batteries periodically and replace them before they are "dead." Fully discharged batteries are prone to leaking and may cause damage to the remote control.

### **Installing the Batteries in the Remote Control**

The 1021 Remote Control is powered by three (3) AAA batteries. To install or replace batteries in the remote control, it is necessary to separate the two halves of the remote housing.

**Note:** *When opened, the remote's pushbutton balls will be loose and care must be taken so that they are not lost!*

1. It is recommended that to lay the remote control face down on a flat surface so that the balls will stay in position.
2. Using a #3 flat-blade screwdriver, remove the three (3) screws that secure the rear panel of the remote control and set it aside.

3. Install the three (3) batteries with the positive (+) terminals facing as indicated on the battery holder.
4. Replace the cover and reinstall the three (3) screws.

The remote of the 1021 features all of the commands necessary to operate any function of the 1021. The following commands are included on the remote. Unless otherwise noted, the Remote Control operates exactly the same as the Front Panel Buttons.

### **Remote Control Buttons**

1. **Standby.**
2. **Options.**
3. **Open/Close.**
4. **Navigate Up.**
5. **Navigate Right/Fast Forward.**
6. **Navigate Down.**
7. **Navigate Left/Fast Reverse.**
8. **Enter.**
9. **Volume Up.**
10. **Volume Down.**
11. **Play.**
12. **Pause.**
13. **Skip Back.**
14. **Skip Forward.**
15. **Stop.**
16. **Numeric Keypad.** The Numeric Keypad includes buttons numbered 0 – 9 and allows you to access any track on the disc directly.

For example, to access track 3, press the number **3** on the Numeric Keypad and then press **Play**. The player will instantly begin to play track 3. If the number 3 on the numeric keypad is pressed and the Enter button is not pressed, the player will automatically begin to play track 3 after a period of two (2) seconds. Any track number can be entered via the numeric keypad up to 999, assuming there are that many tracks on the disc.

## **Basic Operation**

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### **Power Up or Active Mode**

To bring the player out of Standby mode, press the **Standby** button on the front panel or the remote. The player will begin and go through its power up sequence (about  seconds) and will then be ready for operation.

### **Playing a Disc**

Though it features a large number of playback options, the 1021 is a very simple machine to use. The 1021 operates just like a traditional CD player, so it is not necessary to go through all of the menu options or setup tools to play music.

With the 1021 in Active mode, press the **Open/Close** button to open the disc drawer. Place the disc label side up and press **Play**. The disc will begin playing.

- To advance to the next track while a disc is playing, press the **Skip Forward** button. Pressing the button repeatedly will make the player continue to skip forward through tracks.
- To go back to the previous track while a disc is playing, press the **Skip Back** button. Pressing the button repeatedly will make the player continue to skip backward through tracks.
- To fast forward while a disc is playing, press the **Navigate Right** button. Pressing the button multiple times will increase the speed at which the 1021 scans through the disc. When the highest rate has been reached, pressing the button once more will return the player to the slowest rate.

- To fast reverse while a disc is playing, press the **Navigate Left** button. Pressing the button multiple times will increase the speed at which the 1021 scans through the disc. When the highest rate has been reached, pressing the button once more will return the player to the slowest rate.
- To temporarily pause playback, press the **Pause** button. Pressing the button a second time will make the player resume playback. If the player has been left in pause mode for too long, it will automatically stop playback to preserve the disc mechanism.
- To stop playback, press the **Stop** button.

## **Advanced Operation**

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The 1021 includes a number of features that are not available on any other disc player, as well as some more common features. The following is a list of more advanced playback features.

1. **Direct Track Access.** To select and play a track directly, use the **Numeric Keypad** on the remote control and type in the number of the track you wish to play, then press the **Play** button on the remote control (if you do not press Play, the player will automatically begin playing that track after two (2) seconds).
2. **Navigating the Track Listing.** It is possible to navigate through the display's track listing to select a track directly or to view all of the available tracks. This can be done while the disc is playing or while the disc is stopped.
  - With a disc in the player (playing or not), press the **Navigate Up** or **Navigate Down** buttons to scroll through the Track List. The text for the track that is cued or playing will be green. The text for the tracks that you are scrolling through will be light yellow. As you scroll through the tracks, the size of the text for each track you view will increase so that it can be read from a distance.
  - When you locate the track you wish to play, press the **Play** button. The selected track will then begin playing immediately.

- If you stop navigating through the Track List, the player will resume normal playback status after five seconds. The enlarged text will once again revert to the green track that is cued or playing.

## Creating a Playlist

It is possible to create custom playlists with the 1021 and select and play only tracks that you have selected. The 1021 will remember programmed playlists and will play the last programmed playlist when that disc is inserted in the player at a later date (unless cancelled prior to playing). It is possible to program a playlist with either the remote control or the front panel buttons.

To program a playlist into the 1021, use the following sequence:

1. Insert a disc and do not press play. Simply allow the player to read the disc and display a track listing.
2. Using the **Navigate Up** and **Navigate Down** buttons, scroll to a song that you would like to add to a playlist.
3. Press the **Enter** button. The track has now been “tagged” and moved to the top of the Track List. A small dot or circle should also be located to the left of the track name to indicate that it has been tagged.
4. Locate and select as many tracks as you would like to add to the playlist. They will be added in the order you select them. The tracks that have not been selected will remain at the bottom of the track listing.
5. Press **Play**. The 1021 will play the tracks in your programmed playlist in the order that you selected them. Playback will stop when the last track in your playlist has ended.
6. To clear or erase the playlist, press the **Stop** button twice. If the disc is ejected and removed before the **Stop** button is pressed twice, the 1021 will remember your programmed playlist. The next time that CD is inserted in the 1021, it will load and play only the programmed playlist unless the **Stop** button is pressed twice.

## Display Navigation

The right-hand side of the display includes a number of Options icons that further allow you to tailor the playback of the 1021 to your needs. The Options icons include **Setup Tools**, **Random Playback**, **Repeat**, and **Scan** functions. The setup menu pages can also be accessed through the Options section of the display.

To navigate to the Options list, use the following sequence:

1. On the remote control or front panel, press the **Options** button. One of the Options icons should now be highlighted in light yellow.
2. Pressing the **Navigate Up** and **Navigate Down** buttons on the remote control will now move the highlighting up or down the Options list.
3. To select a particular Option, press the **Enter** button when the Option you wish to select is highlighted. The selected icon will then turn green.
4. To exit the Options list, press the **Options** button again.

## Setup Tools

The 1021's operation can be customized to your preferences. These features are located in the Setup Tools menu system. This menu system is divided into six primary menus: Player Menu, Display Menu, Audio Menu, Track List Menu, Network Menu and Boulder Link Menu. A Factory Reset Menu is also available to restore all settings to factory defaults.

*For further information regarding the Setup Tools menu system, please see page 24.*

## Random Playback

When activated, the Random Play option will allow the 1021 to play tracks from the entire disc or a programmed playlist at random.

To activate Random Playback, enter the Options list and move the highlighting to the Random Play icon. Press the **Enter** button. The Random Play icon should then turn green. Once the Play button is pressed, the 1021 will then play all tracks from the disc (or only the tracks

that have been programmed if a playlist has been entered) in random order.

## **Repeat Playback**

When activated, the Repeat Playback options will allow the 1021 to repeat playback of the entire disc, one track of the disc, or a selected portion of one track.

To activate Repeat Playback, enter the Options list and move the highlighting to the Random Play icon. Select the mode of Repeat Playback you wish to use by using the **Navigate Left** or **Navigate Right** buttons. The Repeat Playback icon should then turn green and the mode of Repeat Playback will appear within the circular arrow icon. Press the **Enter** button to activate Repeat Playback.

An explanation of the three modes of Repeat Playback is listed below:

**Repeat Track:** When selected, this option will cause the 1021 to continually repeat the track that is presently playing. Playback will not stop until Repeat Playback is deactivated.

**Repeat Disc:** When selected, this option will cause the 1021 to continually repeat playback of the entire disc when it reaches the end of the last track. If a playlist has been programmed, only the playlist will be repeated. Playback will not stop until Repeat Playback is deactivated.

**Repeat A-B:** When selected, this option will cause the 1021 to repeat playback of only a selected portion of a track. To mark the beginning of the repeated portion of the track, select Repeat A-B in the Options List while the proper track is playing. At the point where you would like to have the repeated section of the track begin, press the **Enter** button. The beginning of the selection will be marked by a green "**A**" on the Progress Bar. At the point where you would like to have the repeated section of the track end, press the **Enter** button again. The end of the selection will be marked by a red "**B**" on the Progress Bar. The 1021 will now continuously repeat the portion of the track between the programmed "A" and "B" markers. Repeat A-B Playback will not stop until Repeat Playback is deactivated.

## Disc Scan Playback

When activated, the Disc Scan Playback options will allow the 1021 to play only the introduction of each track. This is helpful in locating a track when you do not know the name of the track or track name information is not available and you do not wish to skip through each track manually.

To activate Disc Scan Playback, enter the Options list and move the highlighting to the Disc Scan Playback icon. Press the **Enter** button. The Disc Scan Playback icon should then turn green. The 1021 will begin playing the first few seconds of each track (for instructions to program the length of each track that the 1021 will play, please see page [15](#)). Press the **Options** button. Once the desired track has been located or to turn the Disc Scan Function off, press the **Enter** button.

## Setup

The Setup option allows you to program a number of personal preferences into the 1021.

To enter the Setup menus, enter the Options list and move the highlighting to the Setup icon and press the **Enter** button. The display will now show the **Main Setup Menu**, which includes the **Display Menu**, **Audio Menu**, **Track List Menu**, **Player Menu**, **Network Menu**, **Boulder Link Menu**, **Factory Reset Menu**, and **Back to Player**.

## Setup and Programming

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You can customize the 1021 by programming a number of user options and preferences in the Setup menus. While these options do not have to be programmed in order to enjoy the 1021, additional programming may enhance your experience with the player. The following pages will instruct you on the function of each option as well as how to program it.

### Main Setup Menu

To enter the Main Setup Menu, enter the Options list and move the highlighting to the Setup icon and press the **Enter** button. The display will now show the **Main Setup Menu**, which includes the **Display Menu**, **Track List Menu**, **Audio Menu**, **Player Menu**, **Network Menu**, **Boulder Link Menu**, **Factory Reset Menu**, and **Back to Player**.

To select one of the submenus in the Main Setup Menu, use the **Navigate Up** and **Navigate Down** buttons to move the highlighted selection up or down the list. The highlighted item will turn blue and the text will enlarge. When you have highlighted the desired submenu, press the **Enter** button.

The following submenu options are available:

### **Display Menu**

The Display Menu allows you to adjust the functions and settings that affect the display of the 1021. To navigate the Display Menu, use the **Navigate Up** and **Navigate Down** buttons and then press **Enter** once the desired option is highlighted. The following options are available in the Display Menu:

#### **Brightness**

There are eight levels of intensity for the brightness of display, **MAX** (Maximum), **7, 6, 5, 4, 3, 2**, and **1**, as well as **Off**.

To adjust the brightness of the display, use the **Navigate Left** and **Navigate Right** buttons to change the level of intensity. If Off is selected, the display will dim to its lowest setting, however the display will not turn off until the menu system is exited.

#### **Fullscreen Feedback**

If Fullscreen Feedback is activated, the display will show a full-screen sized Play Status icon for a few moments to indicate that a button on the remote control has been pressed. Fullscreen Feedback is not activated by the front panel buttons.

To set the Fullscreen Feedback mode, use the **Navigate Left** and **Navigate Right** buttons to turn the system **On** and **Off**.

#### **Back to Prev Menu**

Pressing the **Enter** button while Back to Prev Menu is highlighted will take you back to the Main Setup Menu.

#### **Back to Player**

Pressing the **Enter** button while Back to Player is highlighted will exit the menu system and take you back to the Track List display.

## Track List Menu

The Track List Menu allows you to adjust the way the Track List display functions. To navigate the Track List Menu, use the **Navigate Up** and **Navigate Down** buttons and then press **Enter** once the desired option is highlighted. The following options are available in the Track List Menu:

### Allow Rollover

The Allow Rollover option turns the ability to scroll through the last track in the Track List and back to the first (or vice-versa) **On** and **Off**.

For example, if Allow Rollover is turned **On**, when scrolling through the Track List using the **Navigate Down** buttons, the highlighted track will return to the top of the Track List when the last track is passed. When scrolling through the Track List using the **Navigate Up** buttons, the highlighted track will return to the bottom of the Track List when the first track is passed. If Allow Rollover is turned **Off**, the highlighted track will simply stop scrolling once the beginning or end of the Track List is reached.

To adjust the Allow Rollover setting, use the **Navigate Left** and **Navigate Right** buttons to toggle the system between **On** and **Off**.

### Show Number

The Show Number option turns the track number indication on the left-hand side of the Track List display **On** and **Off**. Turning the track numbers off increases the amount of space available for track names, however it may be desirable for the track numbers to be displayed if longer MP3 discs are being played.

To adjust the Show Number setting, use the **Navigate Left** and **Navigate Right** buttons to toggle the system between **On** and **Off**.

## Show Title

The Show Title option turns the track title indication in the Track List display **On** and **Off**. This may be preferable if the discs that are being played have no metadata or track information is not available to be displayed.

To adjust the Show Title setting, use the **Navigate Left** and **Navigate Right** buttons to toggle the system between **On** and **Off**.

## Show Album

The Show Album option turns the album title indication in the Track List display **On** and **Off**. This option will show the album title in each track listing. It may be preferable to turn this feature on if compilation CD-Rs are played or if discs with a large number of MP3 tracks are played.

To adjust the Show Album setting, use the **Navigate Left** and **Navigate Right** buttons to toggle the system between **On** and **Off**.

## Show Artist

The Show Artist option turns the artist name indication in the Track List display **On** and **Off**. This option will show the artist name in each track listing. It may be preferable to turn this feature on if compilation CD-Rs are played or if discs with a large number of MP3 tracks are played.

To adjust the Show Artist setting, use the **Navigate Left** and **Navigate Right** buttons to toggle the system between **On** and **Off**.

## Show Time

The Show Time option turns the track time indication on the right-hand side of the Track List display **On** and **Off**. This option shows the total duration of each track.

To adjust the Show Time setting, use the **Navigate Left** and **Navigate Right** buttons to toggle the system between **On** and **Off**.

### **Wrap or Scroll**

The Wrap or Scroll option determines how each track title is displayed.

When this option is set to **Wrap**, the track title will wrap around to a second line of text if the track title is longer than one line. If the title is longer than one line, the track title will simply be truncated.

When this option is set to **Scroll Once**, the track title will scroll across the display in a single line until the entire track title has been shown. It will then truncate to a single line of text.

When this option is set to **Scroll Cont.**, the track title will scroll continuously across the display in a single line of text.

To set the Wrap or Scroll mode, use the **Navigate Left** and **Navigate Right** buttons to select **Wrap**, **Scroll Once** or **Scroll Cont.**

### **Back to Prev Menu**

Pressing the **Enter** button while Back to Prev Menu is highlighted will take you back to the Main Setup Menu.

### **Back to Player**

Pressing the **Enter** button while Back to Player is highlighted will exit the menu system and take you back to the Track List display.

## **Audio Menu**

The Audio Menu allows you to adjust the functions and settings that affect the audio output of the 1021. To navigate the Audio Menu, use the **Navigate Up** and **Navigate Down** buttons and then press **Enter** once the desired option is highlighted. The following options are available in the Audio Menu:

## AES

The AES option activates or deactivates the AES digital output connection on the rear panel of the 1021.

To set the AES mode, use the **Navigate Left** and **Navigate Right** buttons to turn the system **On** and **Off**.

## Volume

The Volume option enables or disables the 1021's internal volume control.

If the 1021 is to be connected to a preamplifier, the volume control mode should be set to **Fixed**. If the volume control is set to Fixed, the output of the 1021 cannot be adjusted.

If the 1021 will be connected directly to an amplifier, the volume control mode should be set to **Variable**.

**Note:** *If the 1021 will be connected directly to an amplifier, do **NOT** set the volume control mode to **Fixed**. This will result in extremely loud output and may lead to damage to your loudspeakers. If the Volume setting is changed to **Fixed**, the player will automatically set itself to the **Pause** playback mode to prevent the full-scale output level from damaging your system if the 1021 is playing.*

To set the Volume mode, use the **Navigate Left** and **Navigate Right** buttons to toggle the system between **Fixed** or **Variable** modes.

## FF/FR Volume Drop

It is possible to program the 1021 to attenuate the output a specific amount when the Fast Forward and Fast Reverse functions are activated. The level of attenuation can be adjusted to **-12 dB**, **-11 dB**, **-10 dB**, **-9 dB**, **-8 dB**, **-7 dB**, **-6 dB**, **-5 dB**, **-4 dB**, **-3 dB**, **-2 dB**, **-1 dB**, and **Off** (no attenuation).

To adjust the FF/FR Volume Drop, use the **Navigate Left** and **Navigate Right** buttons to select the specific level of attenuation you prefer.

### **Back to Prev Menu**

Pressing the **Enter** button while Back to Prev Menu is highlighted will take you back to the Main Setup Menu.

### **Back to Player**

Pressing the **Enter** button while Back to Player is highlighted will exit the menu system and take you back to the Track List display.

## **Player Menu**

The Player Menu is used to view or adjust functions related to basic player functions. To navigate the Player Menu, use the **Navigate Up** and **Navigate Down** buttons and then press **Enter** once the desired option is highlighted. The following options are available in the Player Menu:

### **Previous Track Timer**

The Previous Track Timer option determines the length of time

## **Network Menu**

The Network Menu is used to view or adjust functions related to Ethernet networking. To navigate the Network Menu, use the **Navigate Up** and **Navigate Down** buttons and then press **Enter** once the desired option is highlighted. The following options are available in the Network Menu:

### **Address**

The Address option shows the network address that has been assigned to the 1021. The network address function is automatic and cannot be adjusted or changed from the player.

### **Use Internet Lookup**

The Use Internet Lookup option allows you to set the priority in which the 1021 checks for track, artist, and album information by either looking to the internet for information (**First**), or

looking for metadata or CD Text on the disc or by looking at the internally stored database of track information (**Last**).

If the 1021 will not be connected to the Internet, it is advisable to set this option to **Last**. This will decrease the amount of time it takes for the 1021 to locate and display any available track information.

To adjust the Use Internet Lookup setting, use the **Navigate Left** and **Navigate Right** buttons to toggle the system between **First** and **Last**.

### **Back to Prev Menu**

Pressing the **Enter** button while Back to Prev Menu is highlighted will take you back to the Main Setup Menu.

### **Back to Player**

Pressing the **Enter** button while Back to Player is highlighted will exit the menu system and take you back to the Track List display.

## **Boulder Link Menu**

The Boulder Link Menu is used to view or adjust functions related to the Boulder Link system. To navigate the Boulder Link Menu, use the **Navigate Up** and **Navigate Down** buttons and then press **Enter** once the desired option is highlighted. The following options are available in the Boulder Link Menu:

### **Boulder Link ID**

The Boulder Link ID shows numeric ID number that has been assigned to the 1021 for use in the Boulder Link system. The factory default ID number for the 865 is set to  at the factory and/or when a Factory Reset is performed.

The Boulder Link ID can be set for values of **16 through 31**. To select an ID number, use the **Navigate Left** and **Navigate Right** buttons to select the specific ID number you prefer.

*For further information regarding Boulder Link, please see page .*

## Boulder Link Control

The Boulder Link Control submenu displays the position of the **Master/Slave** switch on the rear panel. No settings can be changed from this submenu. The switch position must be changed on the rear panel.

*For further information regarding Boulder Link, please see page [5](#).*

## Remote Control ID

The Remote Control ID submenu determines the ID setting of the remote control system.

The Remote Control ID can be set to **0, 1, 2, 3, 4, 5** and **6**. The default setting is **5**. To select an ID number, use the **Navigate Left** and **Navigate Right** buttons to select a specific Remote Control ID number.

This feature is used in conjunction with a wiring change in the remote control and should always be left set at **5**. Consult your dealer to change this setting.

## Baud Rate

The Baud Rate setting increases Boulder Link's compatibility with other brands of remote control equipment.

The Baud Rate submenu can be set to **4800** or **62500**. The default setting is [5](#). To select a baud rate, use the **Navigate Left** and **Navigate Right** buttons to select a specific rate. Consult your dealer to change this setting.

## Device List

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## Back to Prev Menu

Pressing the **Enter** button while Back to Prev Menu is highlighted will take you back to the Main Setup Menu.

## Back to Player

Pressing the **Enter** button while Back to Player is highlighted will exit the menu system and take you back to the Track List display.

## Factory Reset Menu

The Factory Reset Menu is used to return all of the programmed menu and submenu settings to factory defaults. Menu options of **Reset All Now** and **Cancel**.

To navigate the Factory Reset Menu, use the **Navigate Up** and **Navigate Down** buttons and then press **Enter** once the desired option is highlighted.

**Note:** When the **Enter** button is pressed as the **Reset All Now** option is highlighted, all software options will be reset to factory defaults and all programmed preferences will be lost.

## Back to Player

The Back to Player menu option will exit the menu system and return the display to the Track List.

To activate the Back to Player command, highlight the **Back to Player** menu option and press the **Enter** button.

## Boulder Link

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Boulder Link is a means of interconnecting most Boulder products so that their microprocessors can talk to each other and pass important information. Among the key features, Boulder Link allows sequential initiation of power amplifiers and other products when the 1021 is brought out of Standby mode. Power amplifiers can also send messages to the 1021, which are then shown on the display. When the 1021 is installed in a Boulder Link enabled system with a Boulder preamplifier, the volume control of the preamplifier will respond to commands from a remote control, however the 1021 volume setting will not change.

The following is a description of how volume control works with the 1021 CD Player and preamplifiers using Boulder Link.

The general rules for Boulder Link and remote control transmissions are as follows:

1. Only the component set to the **MASTER** position looks for IR remote control commands.
2. If the Master can decipher an IR remote transmission, the Master will perform the action requested and then send out any other Boulder Link commands accordingly.
3. If the Master cannot decipher the IR remote transmission, or the remote address is wrong, then the Master packages the code and sends it out through the Boulder Link connection to be used by any Slave that can utilize it.
4. If a Slave receives an IR remote package via Boulder Link, it will try to decipher it, and if the address is correct (for the Slave), it will perform the action requested but will not send out any results to the Boulder Link buss. This prevents an "echo" from being generated on Boulder Link.

The 1021 breaks rule #2 in that even though it is able to decipher remote volume up/down actions, it also sends remote volume up/down transmissions out via Boulder Link to be utilized by any preamplifier that is attached.

### **Using a Preamplifier with Boulder Link**

To use a preamplifier with the 1021 Disc Player, the preamp, the disc player, and the remote control must all have to have the same IR remote address (NOT Boulder Link address). For further information regarding the IR remote address of each Boulder product, please contact your dealer.

The 1021 volume control should be set to "**Fixed**," except in the scenario described in the following paragraph.

There are two basic Boulder Link configurations that can be set up between the 1021 and a preamplifier, either with the 1021 set to be a Slave and the preamplifier set to Master, or vice versa. Either configuration should work equally well, however it is preferable that the preamplifier is set to Master so that amplifier power up will be initiated by the preamplifier instead of the disc player.

### **Connecting Boulder Link**

Boulder Link cables in various lengths are available as an accessory. Please contact your Boulder dealer for further information regarding the proper cable lengths and accessories.

Turn off all products that are to be linked before connecting any Boulder Link cables and setting Boulder Link ID and Master/Slave switches.

Two connections are provided on the back of the 1021 and other Boulder Link enabled products. All the chassis are connected together in a daisy chain manner. Start by connecting one chassis to another, then from that chassis to the next until all are connected. The order does not matter.

A special interface may be obtained to enable Boulder Link to be used with other control systems such as Crestron or AMX. Please contact your Boulder dealer for further details.

### **Connecting Older Generation Products via Boulder Link**

If you are using the 1021 Disc Player with certain other Boulder products, a Boulder Link Adapter Box (BLAB) might be required to make the connection.

Although the connectors are mechanically different between the series, they are electrically the same, thus allowing the various series to be mixed. Please contact your Boulder dealer for further information.

### **Setting Boulder Link Switches**

The Boulder Link **Master/Slave** switch is located on the rear panel. Every Boulder Link system must have one “MASTER” component, and only one component can be set to MASTER. Usually this is the preamplifier or CD Player. Power amplifiers and other products not having a MASTER/SLAVE switch can never be “MASTER.” The 1021's Boulder Link **MASTER/SLAVE** switch will normally be set to **MASTER**, except in the situation described on page 34 involving a preamplifier.

### **Setting Boulder Link ID Numbers**

Each component in a linked system is required to have a unique Boulder Link ID number. The 1021 ID is preset to 23 at the factory and/or when a Factory Reset sequence is executed.

The 1021's Boulder Link ID Number is programmed in the Boulder Link

submenu. The 1021's Boulder Link ID should be set to 23. The disc player's rear panel Boulder Link switch should then be set to **SLAVE**.

Each Boulder power amplifier has a thumbwheel switch on the rear panel. Start by setting the first switch to **0** or **1** and then going up from there without any duplication. Use of the lowest numbers will speed up turn on as each amplifier is allowed about 3 seconds before the next. This spreads out the power line inrush currents thus preventing house circuit breakers from unnecessary tripping. In addition to the 1021, up to  preamplifiers and  power amplifiers may be connected together in one Boulder Link cable daisy chain.

### **Power Up via Boulder Link**

With each component connected together with a Boulder Link cable and individually connected to the AC mains, pressing the 1021's front panel Standby button will begin the turn-on sequence of all components. The first time a "MASTER" 1021 is powered up, it will search for any "SLAVE" units connected to it. As the master finds each slave, the slave's ID number will be shown on the display.

If any of the connected slaves are amplifiers, each time the master is brought out of Standby mode it will display "WAITING FOR AMPS." Each amplifier will be turned on in the order of their Boulder Link ID number. To minimize turn on time, the amplifiers' Boulder Link IDs should be set to the lowest sequential numbers possible other than 0. For example, use 1, 2, and 3 instead of 13, 14, and 15. An amplifier set to ID 15 will take 47 seconds to turn on.

A 1021 set to "SLAVE" will display "THIS UNIT SLAVE # \_\_\_\_." If there is no component set to "MASTER," the 1021 will display "THERE IS NO MASTER!" In this case, the 1021's rear panel **MASTER/SLAVE** switch should be set to **MASTER**. It may take up to 30 seconds for the 1021 to recognize the switch change.

### **Boulder Link Messages**

Each component in the system can send a message to the 1021 which is then shown in the Progress Bar portion of the display. This is particularly helpful in confirming the operating status of each power amplifier in a multiple amplifier system.

"**AMPLIFIER 1 ERROR**" means that an internal power supply has failed and the amplifier has turned itself off to protect the speakers from damage.

“**AMPLIFIER 1 HAS DC**” means that it has turned itself off due to a DC offset voltage being detected at its inputs.

“**AMPLIFIER 1 IS HOT**” means that it has turned itself off due to a higher than normal temperature condition on the heatsinks.

“**AMPLIFIER CLIP**” means that the amplifier's output has momentarily reached its output voltage limitation.

“**UNIT 1 IS OFFLINE**” means that the slave is no longer responding via Boulder Link. Its Boulder Link cable may have become disconnected, or it may have been disconnected from AC mains power.

“**UNIT 1 IS ONLINE**” means that the slave is now responding via Boulder Link in a normal manner and has been recognized by the master.

# Specifications

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## Troubleshooting

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## Warranty

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Boulder Amplifiers, Inc. warrants the materials, workmanship, and proper functioning of this product for a period of five years from the date of purchase as long as the product was operated in accordance with its instruction manual, the product was not altered or improperly serviced or prepared, or if the product failed to function from the date of purchase. In the event of such a failure, the product will be repaired or replaced by Boulder Amplifiers, Inc. through one of its authorized dealers.

In order to have this product repaired or replaced, the original purchaser must first obtain the prior authorization of Boulder Amplifiers, Inc. or one of its authorized dealers. Purchaser must then return the product, PACKAGED IN ITS ORIGINAL CARTON, FREIGHT PREPAID to:

Boulder Amplifiers, Inc.  
3235 Prairie Avenue  
Boulder, Colorado 80301  
USA

or to one of its authorized dealers or distributors around the world.

Boulder Amplifiers, Inc. reserves the right to inspect any product that is subject to any warranty claim prior to repairing or replacing it. Final determination of warranty coverage lies solely with Boulder Amplifiers, Inc. Said determination shall be made as soon as possible following receipt of the product. Boulder Amplifiers, Inc. may, at its option, require from the purchaser, valid proof of purchase (dated copy or photocopy of authorized dealer's original invoice). Out-of-warranty claims will be billed for labor, materials, return freight, and insurance as required. Any product for which a warranty claim is accepted will be returned to the purchaser and costs of shipping and insurance will be factory prepaid within the boundaries of the USA. Units to be shipped outside of the USA will be shipped freight collect only. This warranty gives the holder specific legal rights. The purchaser also has implied warranty rights, and may also have other rights that may vary from state to state.

Boulder Amplifiers, Inc. strives to manufacture the very finest equipment possible and therefore reserves the right to make changes in design and improvements upon its previously manufactured models.

THE ABOVE WARRANTY IS THE SOLE WARRANTY GIVEN BY BOULDER AMPLIFIERS, INC. AND IS IN LIEU OF ALL OTHER WARRANTIES. ALL IMPLIED

WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE SHALL BE STRICTLY LIMITED IN DURATION TO FIVE YEARS FROM THE ORIGINAL DATE OF PURCHASE AND UPON THE EXPIRATION OF THIS FIVE YEAR WARRANTY PERIOD, BOULDER AMPLIFIERS, INC. SHALL HAVE NO FURTHER OBLIGATION OF ANY KIND WHETHER EXPRESSED OR IMPLIED. SOME STATES DO NOT ALLOW EXCLUSIONS OR LIMITATION ON HOW LONG IMPLIED WARRANTIES LAST, IN WHICH CASE THE ABOVE LIMITATIONS SHALL NOT APPLY.

Boulder Amplifiers, Inc. does not authorize any third party, including any dealer or representative, to assume any liabilities on its behalf or to make any warranties on its behalf unless specifically authorized to do so in writing.

Warranty registration cards must be completed and mailed to Boulder Amplifiers, Inc. within thirty (30) days of the original date of purchase. If this product is used in a commercial or industrial application, then special warranty exclusions may apply. Contact your authorized dealer or Boulder Amplifiers, Inc. for information regarding our commercial warranty policies.