



OWNER'S REFERENCE

A. INTRODUCTION

Welcome to the Krell family of audio components. You have joined a select group of discriminating listeners who enjoy the finest in music reproduction.

Krell Digital is dedicated to the development of technologically advanced components for the reproduction of digitally recorded music. These designs continue the Krell tradition of uncompromising performance through leading-edge technology.

This Owner's Reference is divided into several sections, each designed to perform a different function. A Question and Answer section is also included where answers to common questions are addressed. Should you have any questions or suggestions please feel free to contact your authorized dealer or the KRELL staff for assistance.

In the unlikely event that your CD-1 should require service you will be pleased to know that it is backed by a comprehensive Customer Satisfaction policy and one of the most advanced service facilities in the industry. For detailed information on the terms and conditions of service please consult your warranty registration card or your authorized KRELL Distributor.

B. TABLE OF CONTENTS

- 3** **FCC COMPLIANCE STATEMENT**
- 4** **UNPACKING AND ASSEMBLY**
- 5** **BASIC INSTALLATION AND OPERATION**
- 6** **OPERATION OF THE CD TRANSPORT**
- 7** **REMOTE CONTROL**
- 9** **QUESTIONS AND ANSWERS**
- 12** **SPECIFICATIONS**
- 14** **WARRANTY AND SERVICE INFORMATION**

C. FCC COMPLIANCE STATEMENT

WARNING: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

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

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

The user may find the following booklet prepared by the Federal Communications Commission helpful:

"Television Interference Handbook"

This booklet is available from the U.S. Government Printing Office, Washington DC 20402.

Stock No. 004-000-00450-7

WARNING: The use of non-shielded analog output cables and non-shielded digital input cables if coax is used for the digital input (optics interconnect need not be shielded) will invalidate the FCC Certification of this device and may cause interference levels which exceed the limits established by the FCC for this type of device.

D. UNPACKING AND ASSEMBLY

1. Open the box and remove the top layer of protective foam. The following items will now be visible:

- 1 CD-1 integrated CD player
- 1 AC power cord
- 1 CD-1RC Remote Control
- 3 AAA batteries for CD-1RC
- 1 packet containing the Owners Reference and warranty card

NOTE: If any of these items are not included please contact your authorized dealer immediately for assistance.

2. Remove the contents from the second layer of foam and set them aside for later use. Carefully remove the unit from its box and remove the protective plastic wrap.

NOTE: Save all packing materials. If you must ship your CD-1 in the future repack the unit in its original packaging to prevent transit damage. If the unit is returned to KRELL for service please send the remote control.

3. Remove the shipping transport screws from the bottom of the unit. Their locations are marked with a sticker on the bottom of the chassis.

CAUTION: FAILURE TO REMOVE TRANSPORT SCREWS BEFORE OPERATION COULD RESULT IN DAMAGE TO THE TRANSPORT.

4. Remove the voltage identification sticker from the back of the unit.

E. BASIC INSTALLATION AND AND CONNECTIONS

1. Place the unit on a clean level surface away from excessive heat, moisture or light. Ideally, the CD-1 should be placed on the top of an audio component stack, on top of a cabinet, or any rigid open-air platform.
2. Connect the AC power cord to the back of the unit. Once the power cord is secured plug the cord into an AC outlet.

When the CD-1 is connected to the AC outlet you will hear a soft clicking sound. The display on the front panel may illuminate during initial power up; if not, depress the power button and the display will come on.

NOTE: While the CD-1 has superb regulation and does not require a dedicated AC circuit, we strongly advise against any connections through extension cords or multiple AC adaptors. High quality 15 amp line conditioners or grounded AC strips are acceptable. Do not remove or bypass the ground pin on the end of the AC cord. This may cause RFI (radio frequency interference) to be induced into your playback system.

CAUTION: When making connections to this component or any other make sure the power amplifier is OFF and the preamplifier is in the MUTE or STANDBY mode.

3. The CD-1 is equipped with two analog output configurations: Single-ended via RCA connectors and Balanced via XLR connectors.

Connect the appropriate OUTPUT of the CD-1 to the line level INPUT of your preamplifier.

NOTE: The single-ended and balanced outputs can be used simultaneously to feed two different systems.

4. If you are using the CD-1 as a dedicated transport connect the Digital Output from the CD-1 to a Krell Digital Processor or other compatible digital-to-analog audio processor. The CD-1 is compatible with industry standard fibre optic, coaxial cable or optional AT&T fibre optic interface. The location of the unit should be within 2 meters of the digital signal processor. If a longer distance is required we recommend using an AT&T fibre optic data link, as it is more suited to long runs.

Care should be taken in selecting the type of cable used to link the CD-1 to your processor. If coaxial cable is to be used it should be 75ohm, non-capacitive, with a bandwidth in excess of 10MHz to prevent dropout errors.

CAUTION: The CD-1 digital output is not designed to connect directly to any preamp or analog signal processor.

F. OPERATION OF THE CD TRANSPORT

1. Turn the CD transport On by pressing the POWER button. Press the Open/Close button and the transport drawer will open. Select a disc and place it in the CD receptacle, label side up. Press the Open/Close button and the transport drawer will close. Now you are ready to start.
2. The functions of the front panel buttons that control the transport are described below. All of the functions of the CD-1 remain the same when used as a dedicated transport.

PLAY	Starts the disc playing at track 1; will also restart play of the current track
STOP	Stops the disc from playing and clears all programming
>	Forward track select; same as NEXT remote function
<	Reverse track select; same as PREV remote function
> >	Fast forward scan
< <	Fast reverse scan

NOTE: When used as a dedicated transport the analog outputs can still be used to drive a separate system.

G. REMOTE CONTROL

1. Operating functions of the Remote Control are described below:

The PLAY button will start playing the disc from track 1.

The STOP/CM button will stop the disc from playing and clear all program memory.

The NEXT button will move forward one track.

The PREV button will move backward one track.

The PAUSE button will temporarily stop the music or a track selection program; Press the PAUSE button again to resume play from the same point.

The >> button will scan forward within a track.

The << button will scan backward towards the beginning of a track.

The REPEAT button will repeat the entire disc or a track selection program. Press the REPEAT button to defeat the function.

a. To repeat an entire track selection program: Press the repeat button after you have programmed your selections. Press Play and the program will repeat after it has finished.

b. To repeat an individual track: Enter the track number, press the Program button and then press the Repeat button. Press Play and that single track will repeat after it has finished.

2. Track Programming:

The remote control for the CD-1 can be used to program specific tracks to be played in the order you choose. The CD-1 can store up to 20 selections per program.

a. Select the track number which will start the sequence into the keypad, then push the PROGR button. A "P" will appear next to the track number.

b. Enter the rest of the track selections in your program the same way pressing the PROGR button for each track selected.

c. Once you have finished your programming, push the **PROGR** button again. The machine will review the tracks you have selected.

d. Press the **PLAY** button and the program will begin. Press **STOP** to defeat the Program function.

e. Press the **REPEAT** button and the machine will play your selected tracks continuously in the same order they were programmed.

BATTERY INSTALLATION

1. Turn the remote control over onto its front and slide the battery cover to the left until it is free from the control.

2. Insert the three batteries supplied into the remote control as described on the diagram in the remote. Slide the battery cover back onto the remote control.

NOTE: The batteries should be replaced once a year or when the remote control is no longer performing consistently.

H. QUESTIONS AND ANSWERS

Q. I have installed the CD-1 but the "Error" signal flashes when I press PLAY. What should I do?

A. 1. Check to see if you removed the transport screws from the bottom of the unit as stated in the UNPACKING AND ASSEMBLY section of this manual.

2. Make sure the CD is centered in the drawer, free to move and not wedged into the drawer.

3. Make sure there is nothing in the transport receptacle with the CD.

4. Try another CD

CAUTION: Should none of the above be the cause of your difficulty do not attempt any repair of this unit. Contact your authorized Krell Dealer/Distributor or the factory.

Q. Do you recommend I leave the CD-1 ON at all times?

A. Yes. These circuits are most accurate and stable when left to idle while not in use. Low voltage/low power discrete parts age faster when cycled ON and OFF. The CD-1 will sound better and last longer if left ON.

NOTE: You should disconnect the AC cord from the wall outlet before any electrical storms or if you plan to be away from your home for prolonged periods of time.

Q. Will the CD-1 play CD singles?

A. Yes, The CD-1 will play CD singles.

Q. How do I stop a disc with out cancelling the program?

A. The Pause button will temporarily stop the music without disrupting the program. Press Pause again to restart play.

Q. Can I program from the machine or only from the remote control?

A. You can only program with the remote control.

Q. How do I gain access to a specific index with in a track?

A. Start the disc playing and press the Scan Forward button until the next sequential index number appears in the display under the index column.

Q. I own many CD's which have CD Rings on them. Am I able to use these discs with the CD-1?

A. Yes, the CD-1 will accept discs with "CD Rings". Due to their very low mass they will not damage the CD-1 transport. While we can neither affirm or deny the benefits derived from the use of CD Rings, we do not feel that any type of disc equilibrium device is required with the CD-1.

Q. Do you recommend the use of "Cones" or other dampening feet with the CD-1?

A. Due to the rigid chassis construction and internal damping we do not feel the CD-1 requires additional mass coupling or isolation. If you wish to use an after-market isolation device you may do so without fear of damaging the CD-1. However, any device which affixes permanently to the chassis or requires a breach of the external chassis will void the warranty.

Q. Can I use an external Digital to Analog converter with the CD-1? If so which output should I use, coax or fibre optic?

A. Yes, the CD-1 can be used as a CD transport. While a high quality coaxial or standard Tosh link interface will perform quite well, we recommend AT&T glass fibre optic cable due to its ability to completely isolate the grounding planes between the transport and processor, its resistance to RF interference and wide bandwidth format.

Q. Can I restart a program from its beginning while it's playing?

A. Yes, press the PREV button until you reach the first track of the program then press the Play button. The program will start from the beginning.

I. SPECIFICATIONS

TRANSPORT

Philips CDM-1 MK II with Hall effect motor; swing-arm design in a unicast frame.

LASER

Single beam with glass lens.

DAC

Single Bit with 20 Bit resolution

DIGITAL OUTPUTS

- 1 Fibre Optic via standard interface
- 1 Coaxial via RCA connector.
- 1 AT&T Fibre Optic via ST connector (optional)

ANALOG OUTPUTS

- 1 Single-ended output via RCA connectors
- 1 Balanced output via XLR connectors

Balanced XLR output pin configuration

- pin 1 Ground (shield)
- pin 2 0 degrees (non-inverting)
- pin 3 180 degrees (inverting)

REMOTE CONTROL

Wireless infrared

SPECIAL PURCHASE OPTIONS

AT&T wide bandwidth fibre optic transmitter
Black anodized face plate

DIMENSIONS

- 19" Wide
- 12" Deep
- 4" High with feet

WEIGHT

- 11 pounds unit only
- 22 pounds in packing

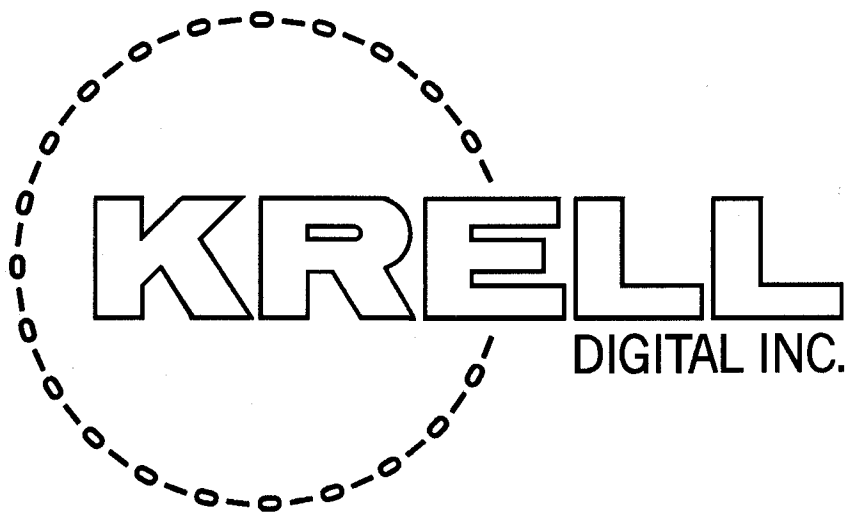
J. WARRANTY AND SERVICE INFORMATION

There are no user-serviceable parts inside the CD-1. The CD-1 has a limited warranty of three years parts and labor on transport-related parts, five years parts and labor on electronic parts, including return freight. The warranty period begins on the date of purchase and is activated with the return of the enclosed Warranty Card and a copy of the Sales receipt. Please return the completed warranty card immediately after successful installation and operation are completed.

The warranty for Krell products is valid only in the country to which they were originally shipped and at the factory. If you think there are problems with your unit please contact your dealer, distributor or the factory immediately.

Please do not return any unit to KRELL for repair without first calling to discuss the problem and to obtain a Return Authorization number. Freight to the factory or distributor is your responsibility. Return freight to you will be paid by the factory or distributor.

Any unauthorized updates or modifications performed to the unit will void the warranty.



KRELL DIGITAL INC.

35 HIGGINS DRIVE MILFORD CT 06460

SALES 203-874-3139 FAX 203-878-8373

COPYRIGHT 1991 KRELL DIGITAL INC.

(CD19110)