



**KAV-250cd/2**  
**Front Loading**  
**Compact Disc Player**

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## **Instructions for Use**

**Owner's Reference**

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**KAV-250cd/2**  
**Front Loading Compact Disc Player**  
**Instructions for Use**  
v 00.0

**CONTACT  
INFORMATION**

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This product complies with the EMC directive (89/336/EEC) and the low-voltage directive (73/23/EEC).

**WARNINGS**

Do not place the compact disc player where it could be exposed to dripping or splashing.


Do not remove or bypass the ground pin on the end of the AC cord. This may cause radio frequency interference (RFI) to be introduced into your playback system.


The ventilation grids on top of the KAV-250cd/2 must be unobstructed at all times during operation. Do not place flammable material on top of or beneath the component.

Turn off all systems' power before connecting the KAV-250cd/2 to any component. Make sure all cable terminations are of the highest quality, free from frayed ends, short circuits, or cold solder joints.

**THERE ARE NO USER-SERVICEABLE PARTS INSIDE ANY KRELL PRODUCT.**

Please contact your authorized dealer, distributor, or Krell if you have any questions not addressed in this reference manual.

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This product is manufactured in the United State of America. Krell® is a registered trademark of Krell Industries, Inc., and is restricted for use by Krell Industries, Inc., its subsidiaries, and authorized agents. , HDCD®, High Definition Compatible Digital® and Pacific Microsonics™ are either registered trademarks or trademarks of Pacific Microsonics, Inc. in the United States and/or other countries. HDCD system manufactured under license from Pacific Microsonics, Inc. This product is covered by one or more of the following: In the USA: 5,479,168, 5,638,074, 5,640,161, 5,808,574, 5,838,274, 5,854,600, 5,864,311, 5,872,531, and in Australia: 669114. Other patents pending. TosLink® is a trademark of Toshiba Corporation. All other trademarks and tradenames are registered to their respective companies.

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# Introduction

Thank you for your purchase of the Krell KAV-250cd/2 Front Loading Compact Disc Player. The KAV-250cd/2 features a high precision disc transport mechanism and high performance analog circuitry that provide Krell sound quality at an exceptional value. The HDCD® decoding capability adds further dimension to the KAV-250cd/2's superb resolution and clarity.

Krell Class A direct coupled circuitry means that the KAV-250cd/2 can be easily integrated into your system, via a preamp/processor, using either balanced or single-ended analog outputs, or digital outputs. The wireless infrared remote control as well as the remote control connection options on the back panel allow you to integrate the KAV-250cd/2 into whole house systems and easily operate it and other system components.

This owner's reference manual contains important information on placement, installation, and operation of the KAV-250cd/2. Please read this information carefully. A thorough understanding of these details will help ensure satisfactory operation and long life for your KAV-250cd/2 and related system components.

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## **READ THIS FIRST**

*The first time the KAV-250cd/2 is plugged in, there is a 30-second delay before you can switch to the operational mode. Do not press the power button or key until the front panel display illuminates.*

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## Definition of Terms

Following are the definitions of key terms used in your owner's reference manual.

### INPUT AND OUTPUT CONNECTIONS

#### **Balanced**

A symmetrical input or output circuit that has equal impedance from both input terminals to a common ground reference point. The industry standard for professional and sound recording installations, balanced connections have 6 dB more gain than single-ended connections and allow the use of long interconnect cables. Balanced connections are completely immune to induced noise from the system or the environment.

#### **Single-ended**

A two-wire input or output circuit. Use care when using single-ended connections as the ground connection is made last and broken first. Turn the system off prior to making or breaking single-ended connections. Single-ended connections are not recommended for connections requiring long cable runs.

### OPERATION

#### **Off**

When power button on the front panel or remote control is pressed and the blue power LED turns off, the component is off.

#### **Operational Mode**

When the power button on the front panel or remote control is pressed and the blue power LED illuminates, the component is in the operational mode and ready to play music.

#### **Stand-by Mode**

A low power consumption status that keeps the audio and regulator circuits at idle. Krell recommends leaving the component in the stand-by mode when it is not playing music.

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# Unpacking

Follow these steps to safely unpack your amplifier:

1. Open the shipping box and remove the top layer of foam. You see these items:
  - 1 KAV-250cd/2
  - 1 IEC connector (AC power) cord
  - 1 12 VDC (12 V trigger) cable
  - 1 KAV-250cd/2 remote control
  - 2 AAA batteries
  - 1 packet containing the owner's reference manual and the warranty registration card
2. Grasp the underside of the foam end-caps that encase the amplifier and lift the amplifier straight out of the shipping box.
3. Place the amplifier in a safe location and remove the protective plastic wrapping.

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## Notes

*If any of these items are not included in the shipping box, please contact your authorized Krell dealer, distributor, or Krell for assistance.*

*Save all packing materials. If you ship your amplifier in the future, repack the unit in its original packaging to prevent transit damage. See **Return Authorization Procedure**, on page 19, for more information.*

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## Placement

Before you install the KAV-250cd/2 into your system, review the following guidelines to choose the location for the KAV-250cd/2. This will facilitate a clean, trouble-free installation. The KAV-250cd/2 does not require any type of special rack or cabinet for installation. For the dimensions of the KAV-250cd/2, see **Specifications**, on the back cover.

Place the KAV-250cd/2 on a firm, level surface, away from excessive heat, humidity, or moisture. The KAV-250cd/2 requires at least two inches (5 cm) of clearance on each side and at least two inches (5 cm) of clearance above the component to provide adequate ventilation. Installations inside cabinetry may need extra ventilation.

Do not place the KAV-250cd/2 near hum sensitive components such as preamplifier phono stages or turntables. Although the KAV-250cd/2 is well shielded, placing it near these components could create interference and cause hum.

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### Note

*The KAV-250cd/2 incorporates an advanced suspension system and does not require additional mass coupling or isolation. You may experiment with feet or cones as long as they are not permanently affixed to the unit. Any unauthorized modifications to the unit or electronics will void the warranty.*

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### IMPORTANT

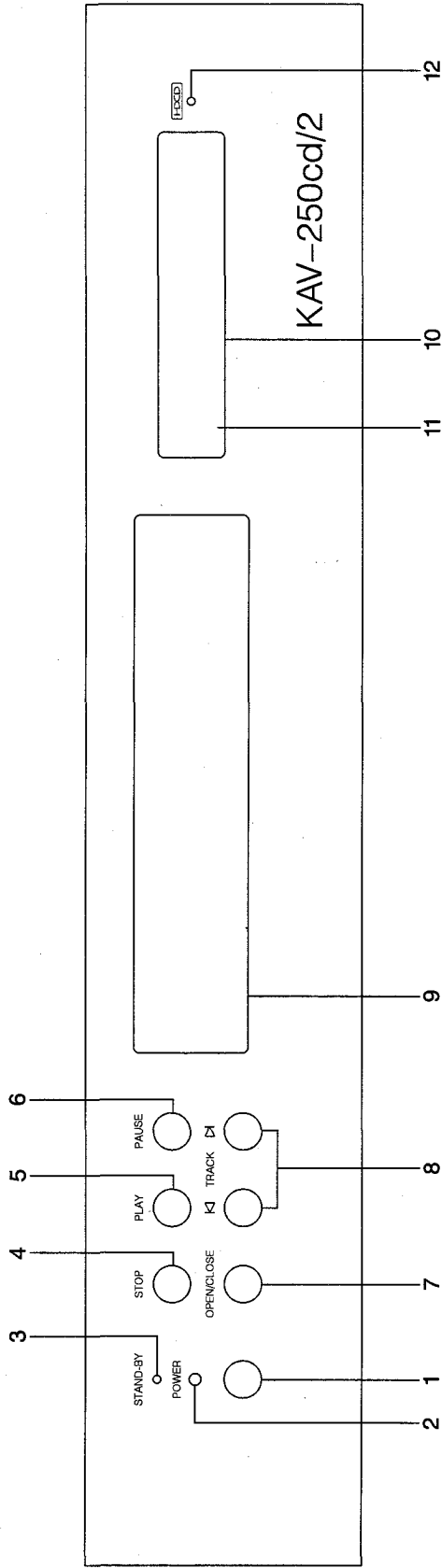
***Do not attach enhancement accessories such as rings, mats, or dampers to individual compact discs. These accessories may interfere with the compact disc transport, resulting in erratic playback and/or poor sound.***

## AC Power Guidelines

The KAV-250cd/2 has superb regulation and does not require a dedicated AC circuit. Avoid connections through extension cords or multiple AC adapters. High quality 15 amp grounded AC strips are acceptable. High quality AC line conditioners or filters may be used if they are grounded and meet or exceed the unit's power supply rating of 100 VA.



**Figure 1 The KAV-250cd/2 Front Panel**



**Power**

- 1 Power Button
- 2 Power LED
- 3 Stand-by LED

**Display**

- 10 Front Panel Display
- 11 Infrared Sensor
- 12 HDCD® LED

**Transport Functions**

- 4 Stop Button
- 5 Play Button
- 6 Pause Button
- 7 Open/Close Button
- 8 Track Back and Forward Buttons
- 9 Compact Disc Transport

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# Front Panel Description

See Figure 1 on page 5

## POWER

### 1 Power Button

Use this button to switch the KAV-250cd/2 between the stand-by and the operational modes.

### 2 Power LED

The blue power LED illuminates when the KAV-250cd/2 is in the operational mode. The power LED also flashes when any remote control key is pressed.

### 3 Stand-by LED

The red stand-by LED illuminates when the KAV-250cd/2 is plugged into a standard AC wall receptacle, indicating that the compact disc player is in the stand-by mode and ready to be switched to the operational mode.

## TRANSPORT FUNCTIONS

### 4 Stop Button

Use this button to stop compact disc playback.

### 5 Play Button

Use this button to start playback from the beginning of the compact disc. For more information, see *How to Play a Compact Disc*, on page 15.

### 6 Pause Button

Use this button to temporarily suspend playback of the compact disc track. To resume playback at the point pause was engaged, press the pause button again.

### 7 Open/Close Button

Use this button to open and close the compact disc transport.

### 8 Track Back and Forward Buttons

Use the track back button to select the track that precedes the current track; use the track forward button to select the track that follows the current track.

### 9 Compact Disc Transport

The compact disc transport holds the compact disc.

**DISPLAY**

**10 Front Panel Display**

The front panel display shows the track number of the currently playing compact disc as well as programming status.

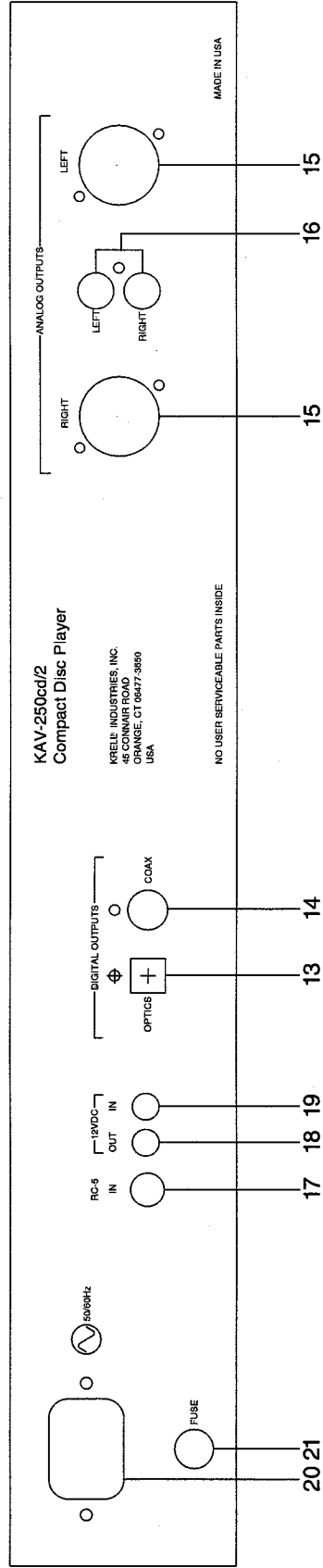
**11 Infrared Sensor**

The infrared sensor receives commands from the KAV-250cd/2 remote control. For proper remote control operation, make sure the infrared sensor is clear of any obstructions.

**12 HDCD® LED**

The HDCD® LED illuminates when a high definition compact disc is playing, indicating that HDCD decoding is functioning.

**Figure 2 The KAV-250cd/2 Back Panel**



**Digital Outputs**

- 13 Optics Digital Output
- 14 Coax(fial) Digital Output

**Analog Outputs**

- 15 Left and Right Balanced Analog Outputs
- 16 Left and Right Single-Ended Analog Outputs

**Remote Connections**

- 17 RC-5 In
- 18 12 VDC Out
- 19 12 VDC In

**Power**

- 20 IEC Connector
- 21 Line Fuse

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# Back Panel Description

See Figure 2 on page 8

## DIGITAL OUTPUTS

### 13 Optics Digital Output

The KAV-250cd/2 is equipped with an EIAJ fiber optic digital output with a TosLink connector.

### 14 Coax(ial) Digital Output

The KAV-250cd/2 is equipped with an S/PDIF coaxial digital output with an RCA connector.

## ANALOG OUTPUTS

### 15 Left and Right Balanced Analog Outputs

The KAV-250cd/2 is equipped with one pair of balanced analog outputs with XLR connectors.

### 16 Left and Right Single-Ended Analog Outputs

The KAV-250cd/2 is equipped with one pair of single-ended analog outputs with RCA connectors.

## REMOTE CONNECTIONS

### 17 RC-5 In

The KAV-250cd/2 is equipped with an RC-5 input that makes custom installation easy and secure by accepting baseband RC-5 input commands from hardwired remote controllers.

### 18 12 VDC Out

The KAV-250cd/2 is equipped with an output that sends 12 VDC (12 V trigger) power on/off signals to other Krell components and other devices that incorporate a 12 V trigger. This allows you to turn other components on or off, or to and from stand-by, from the KAV-250cd/2. When the KAV-250cd/2 is switched between stand-by and operate, it sends a signal from the 12 VDC Out that will switch other components, allowing whole systems or parts of systems to be easily coordinated.

### 19 12 VDC In

The KAV-250cd/2 is equipped with an input that receives 12 VDC (12 V trigger) power on/off signals from other Krell components and other devices that incorporate a 12V trigger. This allows you to turn the KAV-250cd/2 on or off, or to and from stand-by, from other components.

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### Notes

*The 12 VDC output power is limited to 30 ma.*

*Consult the owner's reference of the components used in a custom installation to take full advantage of the remote capability of the KAV-250cd/2.*

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***Back Panel Description continued***

**POWER**

**20 IEC Connector**

The connector is for use with the provided IEC standard 15 amp power cord.

**21 Line Fuse**

The 50/60 Hz line fuse protects the KAV-250cd/2 against short circuits from the external AC power.

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**Note**

*Replace fuses only with the fuse value specified on the back panel.*

**Figure 3 The KAV-250cd/2 Remote Control**

**Power**

22 Pwr (Power) Key

**Compact Disc Transport**

**Functions**

23 CD Key

24 Display Key

25 Direct Number Access Keypad

26 Pause Key

27 Play Key

28 Stop Key

29 Open Key

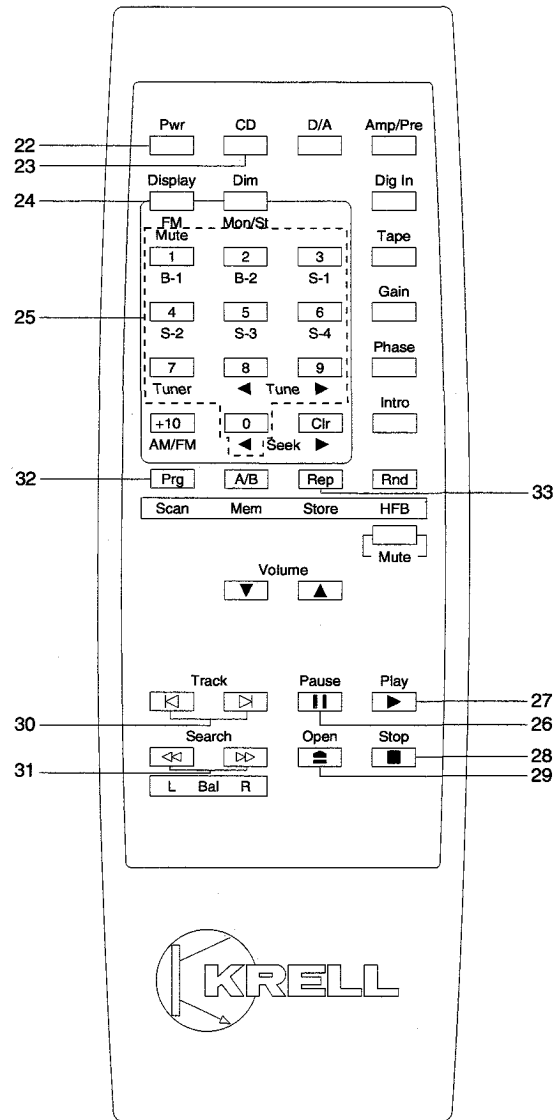
30 Track Back and Forward Keys

31 Search Back and Forward Keys

**Special Play Functions**

32 Prg (Program) Key

33 Rep (Repeat) Key



**Note**

Remote control keys not listed above do not function with the KAV-250cd/2. Keys not used with the KAV-250cd/2 may be used with other Krell components. Consult your owner's reference manual for those components to take advantage of their full remote control capabilities.

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# Remote Control Description

See Figure 3 on page 11

## Battery Installation and Removal

The KAV-250cd/2 remote control uses two AAA-size batteries, which are included with the shipment.

1. Remove the backplate, by sliding it off the remote control.
2. Install the batteries, following the battery position diagram on the plastic battery receptacle.
3. Replace the backplate.

The remote control is ready for operation.

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### Notes

*Replace batteries when remote control function becomes intermittent.*

*Remove batteries if the remote control is not used for a long period of time. Battery leakage can damage the remote control.*

## Remote Control Functions

The KAV-250cd/2 remote control provides power, compact disc transport, and compact disc programming functions. A description of the remote control keys that are used with the KAV-250cd/2 follows.

### POWER

#### **22 Pwr (Power) Key**

Use this key to switch the KAV-250cd/2 between the stand-by and the operational modes.

### COMPACT DISC TRANSPORT FUNCTIONS

#### **23 CD Key**

Use this key to activate the compact disc and power functions on the KAV-250cd/2 remote control.

#### **24 Display Key**

Use this key to cycle the front panel display between the elapsed time of the current track, the elapsed time on the entire compact disc, and the remaining time on the entire compact disc. See also ***How to Program a Track Sequence***, on page 16.



**COMPACT  
DISC  
TRANSPORT  
FUNCTIONS**  
*continued*

**25 Direct Track Access Keypad**

Use the direct track access keypad to select a compact disc track. Tracks consisting of two digits must be pressed within eight seconds of each other. See also *How to Program a Track Sequence*, on page 16.

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**Note**

*The +10 key is not functional on the KAV-250cd/2.*

**26 Pause Key**

Use this key to temporarily suspend playback of the current compact disc track. To resume playback, press the pause key again.

**27 Play Key**

Use this key to start playback from the beginning of the compact disc. For more information, see *How to Play a Compact Disc*, on page 15.

**28 Stop Key**

Use this key to stop compact disc playback.

**29 Open Key**

Use this key to open and close the compact disc transport.

**30 Track Back and Forward Keys**

Use the track back key to select the track that precedes the current track; use the track forward key to select the track that follows the current track.

**31 Search Back and Forward Keys**

Press and hold these keys to scroll backward or forward through the current track.

**SPECIAL  
PLAY  
FUNCTIONS**

**32 Prg (Program) Key**

Use this key to access the track programming mode. Track programming lets you select up to twenty tracks you want to hear in the order you want to hear them. See *How to Program a Track Sequence*, on page 16.

**33 Rep (Repeat) Key**

Press this key once to repeat the entire compact disc. The front panel display shows REPEAT. Press twice to repeat the current track. The front panel display shows REPEAT 1. To cancel this function, press the repeat key again.

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# Connecting the KAV-250cd/2 to Your System

## USING BALANCED CONNECTIONS

Krell recommends using balanced interconnect cables. Balanced interconnect cables not only can minimize sonic loss but are also immune to induced noise, especially with installations using long cables. Balanced connections have 6 dB more gain than single-ended connections. When level matching is critical, keep this gain value in mind.

## Connection Steps

Follow these steps to connect the KAV-250cd/2 to your system.

1. Make sure all power sources and components are off before connecting inputs and outputs.
2. Neatly organize the wiring between the KAV-250cd/2 and all system components. Separate AC wires from audio cables to prevent hum or other unwanted noises from being introduced into the system.
3. Connect the interconnect cables from your preamplifier to the KAV-250cd/2 balanced or single-ended analog outputs on the back panel. The balanced outputs use three-pin XLR connectors; the single-ended outputs use RCA connectors. Maintain the correct left/right orientation of these outputs.

**or**

Connect the KAV-250cd/2 digital coaxial output or optics output to the input of your preamp/processor.

4. Plug the AC power cord into the IEC power connector on the back panel, then plug the AC power cord into the wall socket. The red stand-by LED on the front panel illuminates.

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# Operating Your KAV-250cd/2

This section provides detailed information about operating the KAV-250cd/2.

## Power On

After the KAV-250cd/2 is connected to AC power and is in the stand-by mode, use the power button or key to switch the component to the operational mode. The blue power LED illuminates. The compact disc transport is active.

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### **IMPORTANT**

*The first time the KAV-250cd/2 is plugged in, there is a 30-second delay before you can switch to the operational mode. Do not press the power button or key until the front panel display illuminates.*

## How to Play a Compact Disc

1. Press the open/close button or open key to open the compact disc transport.
2. Place the compact disc on the transport.
3. Press the open/close button or open key again to close the compact disc transport.
4. Press the play button or key to begin playback from the first track.
5. Press the stop button or key to end compact disc playback.

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### **Notes**

*Adjust the volume level through your system volume control.*

*See **Front Panel Description**, on page 6, and **How to Program a Track Sequence**, on page 16, for more information on compact disc play options.*

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## How to Program a Track Sequence

This short term programming lets you store a maximum of twenty tracks in a program sequence.

1. Use the direct number access keypad or the track forward and back keys to select a track.
2. Press the program key to store the selected track. The front panel display shows PROGRAM 1 for the programmed track and the total track length.
3. Use the direct number access keypad or the track forward and back keys to select the next track. The front panel display flashes PROGRAM until you press the program key. The front panel display shows 2 and the total program time.
4. Repeat this procedure for each of the tracks you wish to store. A maximum of twenty tracks can be programmed in sequence.
5. Press the play key to begin playback of the tracks in the program sequence.

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### Note

*Track forward, track back, and repeat function normally within a programmed sequence.*

## How to Change a Programmed Track Sequence

1. If the compact disc is playing, press the stop key.
2. Press the program key. The front panel display cycles through the programmed track numbers once.

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### Note

*You can select a track anytime during the cycle, or after the front panel display has stopped cycling.*

To add or delete tracks, first follow steps one and two, above. Next, follow the steps below to add or delete tracks:

### TO ADD TRACKS TO THE PROGRAM

Press the track number you wish to add on the direct track access keypad, then press the program key. The newly programmed track is placed at the end of the existing track sequence.

### TO DELETE TRACKS FROM THE PROGRAM

1. Press the track number you wish to delete on the direct track access keypad. The front panel display shows the track number, P and flashes PROGRAM.
2. Press the program key to delete the selected track number.

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*How to Program a Track Sequence continued*

## **How to Clear a Programmed Track Sequence**

Press the power key. This places the KAV-250cd/2 in the stand-by mode and erases the programmed sequence.

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### **Note**

*You can also clear the programmed sequence by opening and closing the compact disc transport.*

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# Warranty

**To register your product for warranty benefits, please complete and return the Warranty Registration Card enclosed in the shipping box within 15 days of purchase. Thank you.**

This Krell product has a limited warranty of five years for parts and labor on circuitry and three years for parts and labor on all mechanical components. Should this product fail to perform at any time during the warranty, Krell will repair it at no cost to the owner, except as set forth in this warranty.

The warranty does not apply to damage caused by acts of God or nature.

The warranty on this page shall be in lieu of any other warranty, expressed or implied, including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose. There are no warranties which exceed beyond those described in this document. If this product does not perform as warranted herein, the owner's sole remedy shall be repair. In no event will Krell be liable for incidental or consequential damages arising from purchase, use, or inability to use this product, even if Krell has been advised of the possibility of such damages.

Proof of purchase in the form of a bill of sale or receipted invoice substantiating that the unit is within the warranty period must be presented to obtain warranty service. The warranty begins on the date of retail purchase, as noted on the bill of sale or receipted invoice from an authorized Krell dealer or distributor.

The warranty for Krell products is valid only in the country to which they were originally shipped, through the authorized Krell distributor for that country, and at the factory. There may be restrictions on or changes to Krell's warranty because of regulations within a specific country. Please check with your distributor for a complete understanding of the warranty in your country.

If a unit is serviced by a distributor who did not import the unit, there may be a charge for service, even if the product is within the warranty period.

Freight to the factory is your responsibility. Return freight within the United States (U.S.A.) is included in the warranty. If you have purchased your Krell product outside the U.S.A. and wish to have it serviced at the factory, all freight and associated charges to the factory are your responsibility.

Krell will pay return freight to the U.S.A.-based freight forwarder of your choice. Freight and other charges to ship the unit from the freight forwarder to you are also your responsibility.

Krell is not responsible for any damage incurred in transit. Krell will file claims for damages as necessary for units damaged in transit to the factory. You are responsible for filing claims for shipping damages during the return shipment.

Krell does not supply replacement parts and/or products to the owner of the unit. Replacement parts and/or products will be furnished only to the distributor performing service on this unit on an exchange basis only; any parts and/or products returned to Krell for exchange become the property of Krell.

No expressed or implied warranty is made for any Krell product damaged by accident, abuse, misuse, natural or personal disaster, or unauthorized modification.

**Any unauthorized voltage conversion, disassembly, component replacement, perforation of chassis, updates, or modifications performed to the unit will void the warranty.**

The operating voltage of this unit is determined by the factory and can only be changed by an authorized Krell distributor or at the factory. The voltage for this product in the U.S.A. cannot be changed until six months from the original purchase date.

In the event that Krell receives a product for warranty service that has been modified in any way without Krell authorization, all warranties on that product will be void. The product will be returned to original factory layout specifications at the owner's expense before it is repaired. All repairs required after the product has been returned to original factory specifications will be charged to the customer, at current parts and labor rates.

All operational features, functions, and specifications and policies are subject to change without notification.

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# Return Authorization Procedure

## HOW TO EXPEDITE SERVICE

If you believe there is a problem with your component, please contact your dealer, distributor, or the Krell factory to discuss the problem *before* you return the component for repair. To expedite service, you may wish to complete and e-mail the Service Request Form in the Service section of our website at:

<http://www.krellonline.com>

### To contact the Krell Service Department:

TEL	203-799-9954 Monday-Friday, 9:00 am to 5:00 pm EST
FAX	203-799-9796
E-MAIL	<a href="mailto:service@krellonline.com">service@krellonline.com</a>
WEB SITE	<a href="http://www.krellonline.com">http://www.krellonline.com</a>

## HOW TO RETURN A PRODUCT

To return a product to Krell, please follow this procedure so that we may serve you better:

1. Obtain a Return Authorization Number (R/A number) and shipping address from the Krell Service Department.
2. Insure and accept all liability for loss or damage to the product during shipment to the Krell factory and ensure all freight (shipping) charges are prepaid.

The product may also be hand delivered if arrangements with the Service Department have been made in advance. Proof of purchase will be required for warranty validation at the time of hand delivery.

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## IMPORTANT

***Use the original packaging to ensure the safe transit of the product to the factory, dealer, or distributor. Krell may, at its discretion, return a product in new packaging and bill the owner for such packaging if the product received by Krell was boxed in nonstandard packaging or if the original packaging was so damaged that it was unusable. If Krell determines that new packaging is required, the owner will be notified before the product is returned.***

## HOW TO PURCHASE ADDITIONAL PACKING

To purchase additional packaging, please contact your authorized Krell dealer, distributor, or the Krell Service Department for assistance.

## SERIAL NUMBER

Your KAV-250cd/2 product serial number is: \_\_\_\_\_

Krell Industries, Inc.  
45 Connair Road  
Orange, CT 06477-3650 USA

TEL 203-799-9954, FAX 203-891-2028  
E-MAIL krell@krellonline.com  
WEB SITE www.krellonline.com

## KAV-250cd/2

### Front Loading Compact Disc Player

v 00.0

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## Specifications

*All operational features, functions, specifications, and policies are subject to change without notification.*

### FREQUENCY RESPONSE

20 Hz–20 kHz  
+0.0,-0.35 dB

### SIGNAL-TO-NOISE RATIO

“A” weighted

103 dB

### TOTAL HARMONIC DISTORTION (THD)

20 Hz–20 kHz  
-84 dB THD

### POWER CONSUMPTION

49 W

### TRANSPORT

A drawer loading, mechanically isolated drive mechanism featuring a linear drive laser assembly

### DIGITAL-TO-ANALOG CONVERTERS

Dual Burr-Brown  
PCM-1702 20-bit devices

### ANALOG AUDIO OUTPUTS

1 pair balanced  
via XLR connectors

1 pair single-ended  
via RCA connectors

### DIGITAL AUDIO OUTPUT

- 1 S/PDIF via RCA connector
- 1 EIAJ optical via a TosLink connector

### REMOTE CONTROL

- 1 wireless infrared
- 1 RC-5 via a DC power connector
- 1 12 VDC input (12 V trigger) via a 3.4 mm mini plug
- 1 12 VDC output (12 V trigger) via a 3.4 mm mini plug

### DIMENSIONS

19w x 3.7h x 15d in.  
48.3w x 9.4h x 38.1d cm

### WEIGHT

**Shipped**  
24 lb., 10.9 kg  
**Unit only**  
18.5 lb., 8.4 kg