

AC POWER GUIDELINES

The FBI needs to be operated from a dedicated AC power line rated at a minimum of 15 amps. Use only the power cord supplied. Using devices designed to alter or stabilize the AC power may impair the ability of the FBI to perform optimally.

Connecting the FBI to Your System

Pin assignments for the XLR connectors:

- Pin 1 Shield (ground)
- Pin 2 Non-inverting (hot) (0°)
- Pin 3 Inverting (cold) (180°)

Krell recommends using its proprietary Krell CAST system between the FBI and other CAST-equipped components, for unparalleled sonic performance. Use balanced interconnect cables for components that are not CAST-equipped. 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.

Follow these steps to connect the FBI 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 FBI 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 left and right outputs of your source components to the appropriate analog inputs (16, 17, 18) on the FBI amplifier. The FBI is equipped with one CAST input (C-1), one balanced input (B-1), three single-ended inputs (S-1, S-2, and S-3), and one tape input. The C-1, B-1, S-1, S-2, and S-3 inputs can be configured for Theater Throughput.
4. Connect the loudspeaker cables to the FBI loudspeaker binding posts (15), located on the amplifier back panel. Loudspeaker binding posts accept only spade lugs.
5. Use the preamp outputs (21) to connect to an additional power amplifier, for loudspeakers in another room.
6. Plug the AC cord into the IEC receptacle(25) on the back panel of the FBI. Plug the remaining end into the AC wall socket.

Operating the FBI

Note

When powering up any system, always turn amplifiers on last. When powering down, always turn amplifiers off first.

To avoid loudspeaker damage, switch all sources with the pre-amplifier level either muted or fully attenuated. Do not change inputs to the amplifier while the amplifier is on.

Krell amplifiers have large reserves of clean power and can safely drive loudspeakers to higher sound pressure levels than other amplifiers. However, use care when setting high playback levels and lower the volume level at any sign of loudspeaker distress.

The FBI amplifier is easy to operate:

1. Place the amplifier in stand-by mode: make sure that the FBI is connected to AC power, with the back panel power breaker switch (24) in the up position. The red stand-by LED (3) on the front panel is illuminated.
2. To turn on the amplifier, press the power button on the front panel or the power key on the remote control (1). There is an audible click. The blue power LED (2) illuminates, and the red stand-by LED turns off. There is a short wait period, while the amplifier power stages are started. The front panel display counts down the wait period. When the display shows 000 (zero volume), the FBI is in the operational mode.
3. With the amplifier in the mute position, or the volume control fully attenuated, select a source from the front panel or the remote control (5, 6, or 7).
4. Start playing the source.
5. Set the volume to a comfortable listening level using the level knob on the front panel or the level keys on the remote (12).
6. To turn the amplifier off, press the power button on the front panel or the power key on the remote. The red stand-by LED illuminates and the FBI is in the stand-by mode.

It is now safe to turn off the rest of the system.

Your FBI product serial number is: _____

QUICK SETUP GUIDE

Getting Started

Thank you for your purchase of the Krell Fully Balanced Integrated (FBI) amplifier. The FBI is a large-format integrated amplifier and preamplifier with has a fully balanced signal path from input to output. It employs a wide bandwidth design with low negative feedback for sonic accuracy throughout the frequency spectrum. All circuits, including the amplifier output stage, operate in pure Class A mode.

This document outlines the basic steps for unpacking, placing, connecting, and operating the FBI. The owner's reference for this product, including a detailed description of features and the product warranty, is available on the web at:

www.krellonline.com

Please contact your authorized dealer, distributor, or Krell if you have any questions not addressed in the owner's reference.

WARNINGS

Do not place the integrated amplifier where it could be exposed to dripping or splashing.

The ventilation grids on the top and bottom of the FBI must be unobstructed at all times during operation. Do not place flammable material on top of or beneath the component.

When making connections to this or any other component, make sure all components are off. Turn off all systems' power before connecting the FBI to any other 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.

Unpacking

Note

Save all packing materials. If you need to ship the FBI in the future, repack the component in its original packaging to prevent shipping damage.

Two people are needed to remove the FBI from the shipping box safely and easily.

The shipping box contains the following items:

- 1 FBI amplifier
- 1 AC power cord
- 1 12 VDC (12 V trigger) cable
- 1 FBI remote control
- 2 AAA batteries
- 1 packet of literature including the Quick Setup Guide and the warranty registration card

1. Open the shipping box and remove the top layer of foam.
2. Orient the shipping box so that one person stands at the front of the amplifier and one person stands at the back of the amplifier.
3. Both people need to grab a pair of the cardboard handle cutouts (one pair located at the front of the amplifier and one pair located at the back of the amplifier) and simultaneously lift the amplifier straight up, out of the carton.
4. Place the amplifier in a safe location and remove the protective plastic wrapping.

Placement

Place the FBI on a firm, level surface, away from excessive heat, humidity, or moisture. Leave at least 2 inches (5 cm) of clearance on each side and at least 8 inches (20 cm) of clearance above and below the component for adequate ventilation. Installations inside cabinetry may need extra ventilation. Place the amplifier as close to the loudspeakers as possible, and keep loudspeaker cable lengths to a minimum.



Figure 1 The FBI Front Panel

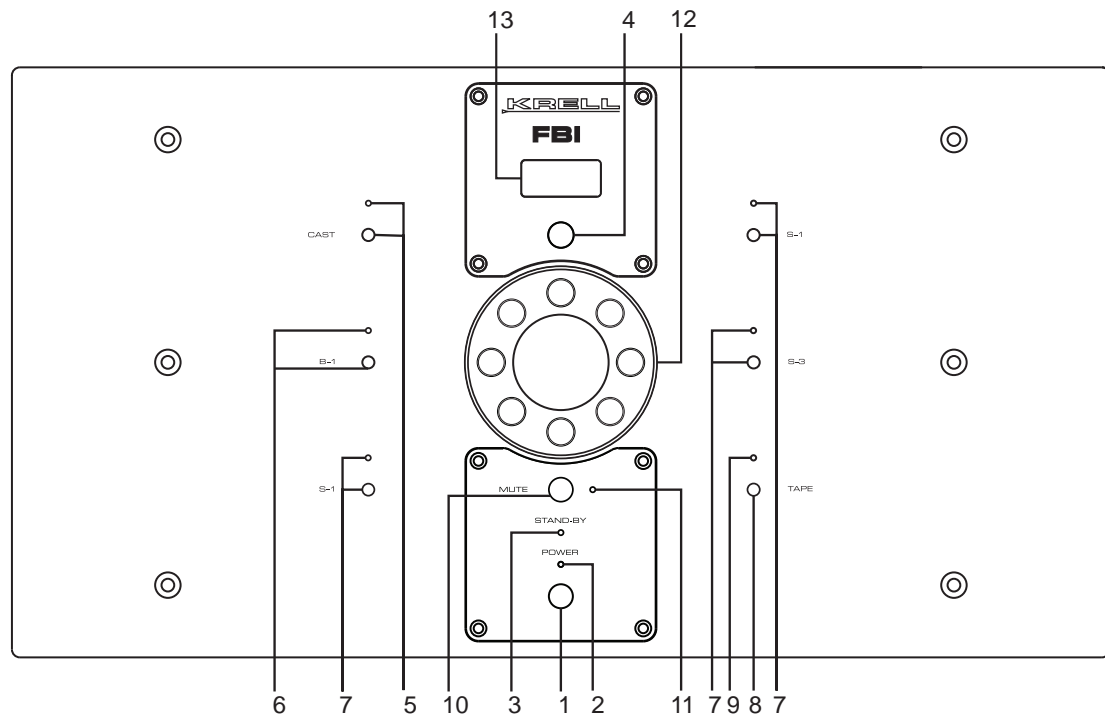


Figure 2 The FBI Remote

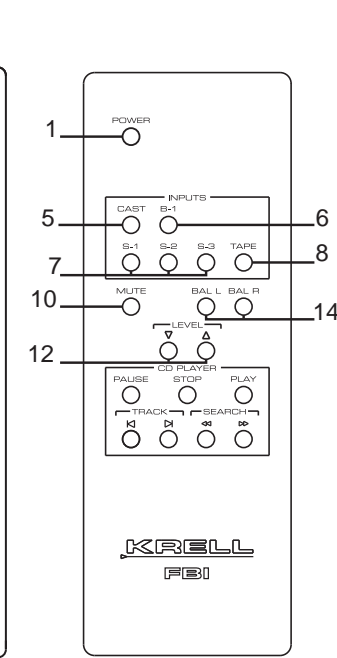
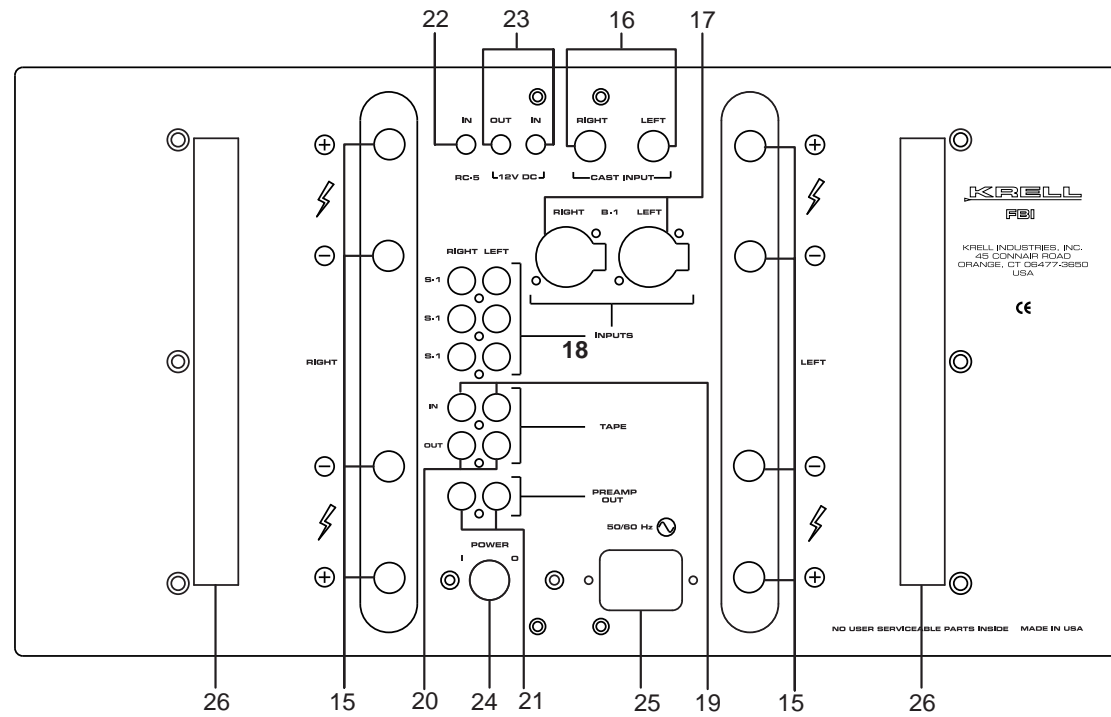


Figure 3 The FBI Back Panel



Front Panel and Remote

- POWER**
- Power**
Switches the FBI between stand-by and operational modes.
 - Power LED**
The blue power LED illuminates when the FBI is in the operational mode. The blue power LED also flashes when any remote control key is pressed.
 - Stand-by LED**
The amplifier is in the stand-by mode and ready to be switched to the operational mode when the FBI is plugged into a standard AC wall receptacle, the back panel power breaker switch (24) is in the up position, and the red stand-by LED is illuminated.
 - Infrared Sensor**
Receives commands from the FBI remote control. For proper remote control operation, make sure that nothing is obstructing the infrared sensor.
- ANALOG SOURCE COMPONENTS**
- C-1 Button, Key, LED**
Selects a CAST source component via a CAST connector. The red LED illuminates.
 - B-1 Button, Key, LED**
Selects a balanced analog source component via an XLR connector. The red LED illuminates.
 - S-1, S-2, S-3 Buttons, Key, LEDs**
Selects a single-ended analog source component via single-ended RCA connectors. The red LED illuminates.
 - Tape Button or Key**
Playback pre-recorded tapes and compares the output signal of an analog tape recorder to an audio source.
 - Tape LED**
The red tape monitor LED illuminates when the tape monitor is activated. The LED does not illuminate when an audio source is activated.
- MODE INDICATORS**
- Mute**
Interrupts the signal of the input you have selected. To unmute, press the mute button or key again.
 - Mute LED**
The red mute LED illuminates when you press the mute button or key (8).
- VOLUME**
- Level Knob or Keys**
The level knob on the front panel or the level keys on the remote control adjust the amplifier output level. The output level is indicated on the front panel display, with a range from 0-151.
- DISPLAY**
- Front Panel Display**
The front panel display shows volume and balance levels and Theater Throughput status.

Remote Only

- VOLUME**
- Bal (Balance) Keys**
Shifts the balance to the left or the right channel. Balance level is indicated in the front panel display (13). To display balance, push any key on the remote.
- The front panel display indicates -C- when the system is balanced. If the system is not balanced, the front panel display indicates that the balance is right or left of center, by how much, on a scale of 1 (least out of balance) to 5 (most out of balance).
- Example:** A display of: -- 3 means that the balance is moderately right of center. A display of: 5 - - means the balance is severely left of center.

Back Panel

- AMPLIFIER CHANNEL OUTPUTS**
- L and R Loudspeaker Outputs**
Two pairs of loudspeaker binding posts are available for each channel of amplification, facilitating a power-bi-wire connection to the loudspeaker. Each pair of binding posts is connected internally via copper bus bars. If only one set of binding posts is used, the connection can be made from any pair of binding posts. FBI loudspeaker binding posts accept only spade lugs. Use the red terminal for the positive connection and the blue terminal for the negative connection.

- ANALOG INPUTS**
- Left and Right CAST Inputs**
The FBI amplifier is equipped with 1 pair of Krell CAST inputs, via 4-pin bayonet connectors, for connecting the FBI to any Krell CAST-equipped component.
 - Left and Right Balanced Analog Inputs**
The FBI is equipped with 1 pair of balanced (B-1) inputs via XLR connectors.
 - Left and Right Single-Ended Analog Inputs**
The FBI is equipped with three pairs of single-ended (S-1, S-2, or S-3) inputs via RCA connectors.
 - Left and Right Tape Inputs***
The FBI is equipped with a pair of single-ended tape inputs via RCA connectors.
- ANALOG OUTPUTS**
- Left and Right Tape Outputs***
The FBI is equipped with a pair of single-ended tape outputs via RCA connectors.
 - Left and Right Preamp Outputs**
The FBI is equipped with a pair of single-ended pre-amplifier outputs.
- REMOTE BACK PANEL CONNECTIONS**
- RC-5 In**
Accepts baseband RC-5 input commands from hardwired remote controllers.
 - 12 VDC In/Out (12 V Trigger)**
Enables you to turn the FBI on, or off, or to and from stand-by from other components.
Out. Sends 12 VDC power on/off signals to other components and devices that incorporate a 12 V trigger.

12 V Trigger, continued

In. Receives 12 VDC power on/off signals from other components and devices that incorporate a 12 V trigger.

POWER

24 Back Panel Power Breaker Switch
Place the switch in the up position, to put the FBI in the stand-by mode, after it is connected to AC power.

25 IEC Power Connector
Connects the FBI to AC power: plug the provided IEC 20 amp power cord into the IEC power connector on the FBI, and plug the other end of the power cord into the AC wall outlet.

CONVENIENT LIFTING DEVICE

26 Handles
Two handles are provided to help move the FBI easily and safely.

THEATER THROUGHPUT

To simplify the integration of an audio/video surround sound processor into your system, C-1, B-1, S-1, S-2, and S-3 inputs can be configured for Theater Throughput. When Theater Throughput is active, the surround sound processor controls volume and balance. When Theater Throughput is not active, the FBI controls volume and balance.

To Activate an Input for Theater Throughput

- Set the source component level to zero.
- Place the FBI in the operational mode.
- Press and release the button or key (5, 6, or 7) for the device you want to configure for Theater Throughput. The device LED illuminates.
- Press the button or key again and hold it for 4 seconds. The front panel display (13) shows "thr."

To Deactivate an Input from Theater Throughput

- Place the FBI in the operational mode.
- Press and release the button or key (5, 6, or 7) for the device you want to disengage. The device LED illuminates.
- Press the button or key again and hold it for 4 seconds. The phrase "thr" disappears from the front panel display (13).