

Quilter

INTERBLOCK 45



COMPACT GUITAR AMP / CONSOLE INTERFACE
Owners Manual

CONGRATULATIONS!

Welcome to the **INTERBLOCK 45: Micro size, big feature package.**

The InterBlock 45 provides all the key requirements for coupling an electric guitar or other electronic instrument to a PA or recording console, and also contains a built-in amp with enough power for practice or small gigs. It combines a full-service guitar preamp, overdrive section, effects loop, cabinet simulator, headphone driver, and 45-watt power amp in a single pedal-size enclosure. As the name suggests, it provides a complete interface between your instrument, your pedals, your DAW, your PA system, or a stand-alone loudspeaker, with lots of flexibility to handle whatever you may come across in your efforts as a performing artist. In spite of its diminutive size, this little powerhouse packs a potent punch capable of driving a serious stageworthy rig.

The high impedance **INPUT** accepts normal guitar cables. The **GAIN** control ranges from clean to overdrive. The three band EQ adjusts **LOW**, **MID**, and **HIGH** frequencies, with two selectable **EQ VOICE** modes. **FULLQ** starts from a flat response with EQ at 50%, and the **VINTAGE** mode emulates the “Fender Style” tone stack. A full featured **FX LOOP** includes a secret “audio input” feature allowing an auxiliary music source to be “injected” into the **FX RETURN**, which further expands the capabilities of the InterBlock 45. The **MASTER** control adjusts the overdrive threshold from 0 to 45 watts offering clean headroom and/or rich overdrive at will. From the **MASTER CONTROL**, dual signal paths lead to the **BAL LINE OUT/HEADPHONE** jack, and the **SPEAKER OUTPUT** jack, which drives any normal speaker, and is stable with no speaker connected.

Please consult the rest of this manual to obtain the best results from all these features.

A NOTE FROM PAT QUILTER:

Our goal at Quilter Labs is to bring you all the tone and dynamics of the best vintage amplifiers without the weight and drawbacks of tube technology. Despite its small size, this is a fully professional product, produced on a world-class production line. May your new amplifier deliver many years of faithful service and become a source of inspiration and creativity.

CARTON CONTENTS

- 1 Quilter **INTERBLOCK 45** amplifier
- 1 IEC AC Power Cord
- 1 24 Volt DC Power Supply
- 1 Owner’s Manual

Troubleshooting Chart:

NO SIGNAL	If the amber InterBlock power light is on, confirm that the Gain, Master and instrument volumes are turned up, and confirm that input, effects loop, and speaker cables are all good. Try an alternate speaker, and try the headphones to see if signal is getting through. If the green power supply LED is on, but not the Interblock, confirm that the connection from power supply to InterBlock is fully seated. If the green power supply LED is off, confirm that the AC power is plugged in. If so, unplug the power supply from the InterBlock. If the green LED comes on, the InterBlock may be bad. If the green LED stays off the power supply may be bad. Contact Quilter Labs for service instruction. If the sound from the InterBlock remains weak and garbled, it may need servicing.
HUM AND NOISE	Hum and buzz are chronic problems with electronic instrument hookups. To track down the source, reduce guitar volume to zero. If the hum clears up, it is coming from the guitar. Guitar hum is frequently affected by where you position yourself, and often increases when not touching the strings. If the hum remains, unplug the guitar cable from the InterBlock. If this fixes the hum, try another cable. If hum remains after unplugging the input, unplug any devices connected to the Effects Loop. If this fixes the hum, the problem is in the pedal board. Gently wiggle all cables, listening for any fluctuation in hum level. Solderless cables often go bad after a year or two. If cables are good, confirm that the pedalboard power supply is not overloaded, which can also cause hum. If the hum remains with nothing plugged into the input or effects loop, the problem may be a ground loop between the InterBlock and outboard console. If possible, operate from the same AC strip, and if necessary, insert a ground-lift Direct Box between the Line Out and console Line In.
LOUD SCREECHING NOISES	Be sure the speaker output is only connected to a stand-alone speaker (or left unplugged). Accidentally connecting the speaker to a signal input will often cause runaway feedback.
HEADPHONE	If sound only comes from one side, confirm that the selector switch is set on H-PHONE and that the plug is fully inserted.

OVERALL SIGNAL FLOW: As shown by the InterBlock panel graphics, the signal flow matches the layout of typical pedals, flowing from right to left. INPUT feeds the EQ SECTION with VOICE switch, passes through FULLQ OVERDRIVE to the EFFECTS LOOP, returns to MASTER, then to switchable CAB SIM section, and splits to go to the SPEAKER and HEADPHONE/LINE OUT jacks.

FX LOOP (1/4" unbalanced, 1V pk): The series Effects Loop is located after the FULL-Q overdrive section, so effects are applied to the overall sound of the amplifier. SEND goes to your effects. RETURN accepts the modified signal and sends it to the MASTER volume control. PRO TIP: To add an outboard signal such as backing tracks to the mix, plug an MP3 player or iPhone into the FX RETURN jack. The signal will mix 50/50 with the internal signal. Use the output device's volume control to set the balance.

HEADPHONE/BALANCED LINE OUT (TRS 1/4" jack): Switch selects Headphone Output (both sides driven equally) or Balanced Line Out for connection to external mixing console or amplifier. Overall signal level is controlled by the Master.

FR/CAB: The FR setting produces Full Range Flat Response output, suitable for acoustic guitar, keyboards, or digital modeling systems. Use with the EQ Voice switch on FULLQ so EQ starts from a flat response curve. The VINTAGE voice may be used when more "sparkle" is needed. The CAB position activates a "cabinet simulator" circuit that shapes the tone to resemble the response of typical guitar speakers. This will produce a hotter, more musical response for electric guitar, especially when using overdrive. Use FULLQ or VINTAGE EQ voice as desired. The output flows to both the SPEAKER and separate HEADPHONE/LINE OUT jacks.

SPEAKER JACK: 1/4" speaker jack for powering external speaker. Provides 17W into 16 ohms, 33W at 8 ohms, and 45W at 4 ohms. PRO TIP: do not connect to electronic inputs or grounded speaker loads. Use only for a stand-alone speaker.

EQ SECTION: LOW, MID, and HIGH controls provide wide range cut/boost control over three frequency bands. The EQ VOICE switch selects between FULLQ for a normally flat response (great for FRFR applications) or VINTAGE response which matches traditional "Tone Stack" guitar-amp voicing.



POWER INDICATOR LED: Glows amber to indicate power status. PRO TIP: There is no separate power switch for the InterBlock. Pull the AC plug out of the power supply or switch off the power strip to power down the device.

24 VDC INPUT: Use only the provided Quilter PS-24 DC power supply.

GAIN: Determines how hard the amp "pushes" into overdrive. Depending on the volume of your guitar pickups and playing attack, the sound should remain clean from 0 to 3, and breakup should begin to set in between 3 and 7. Settings above 7 should result in increasing amounts of overdrive and sustain.

INPUT: Accepts standard guitar or any other signal. Full 1 meg impedance for better tone and clarity, with low noise FET-input for maximum dynamic range.

24VDC POWER SUPPLY: (not shown to scale) Quilter approved 24 Volt-3A DC power Supply. Using the InterBlock 45 with any other non approved power supply will void the warranty. Do not use the Quilter power supply to power other pedals or devices.



LIMITED TRANSFERABLE WARRANTY

(DOMESTIC USA POLICY, FOR INTERNATIONAL POLICY, PLEASE CONTACT YOUR DISTRIBUTOR.)

IMPORTANT: PLEASE READ THIS DOCUMENT COMPLETELY. IT CONTAINS IMPORTANT INFORMATION ABOUT YOUR RIGHTS AND OBLIGATIONS, AS WELL AS LIMITATIONS AND EXCLUSIONS THAT MAY OR MAY NOT APPLY TO YOU. BY ACCEPTING DELIVERY OF THE PRODUCT(S), YOU AGREE TO BE BOUND BY AND ACCEPT THESE TERMS AND CONDITIONS. Quilter Laboratories, LLC (Quilter Labs) guarantees its products to be free from defective material and/or workmanship and will replace defective parts and repair malfunctioning products under this warranty when the defect occurs under normal installation and use—provided the unit is returned to our factory via pre-paid transportation with a copy of proof of purchase. (i.e. sales receipt). This warranty provides that the examination of the return product must indicate, in our judgment, a manufacturing defect. This warranty does not extend to any product which has been subjected to misuse, neglect, accident, or where the date code or serial number has been defaced or removed. Quilter Labs shall not be liable for incidental and/or consequential damages. This warranty gives you specific legal rights.

This limited warranty is freely transferable during the term of the warranty period. The warranty on Quilter products is NOT VALID if the products have been purchased from an unauthorized Dealer/online e-tailer, or if the factory serial number has been removed, defaced, or replaced in any way.

Customers may have additional rights, which vary from state to state or from country to country. In the event that a provision of this limited warranty is void, prohibited or superseded by local laws, the remaining provisions shall remain in effect. The Quilter Labs limited warranty for this product in the United States is valid for a period of one (1) year from date of purchase.

IMPORTANT: PLEASE RETAIN YOUR SALES RECEIPT OR ONLINE ORDER RECORD, AS IT IS YOUR PROOF OF PURCHASE COVERING YOUR LIMITED WARRANTY. TO TRANSFER THE WARRANTY TO A SUBSEQUENT PURCHASER, YOU MUST ENDORSE THE SALE OF THE PRODUCT TO THE SUBSEQUENT PURCHASER ON THE FRONT OF THE SALES RECEIPT. THIS LIMITED WARRANTY IS VOID WITHOUT SUCH ENDORSED SALES RECEIPT.

Defective products that qualify for coverage under this warranty will be repaired or replaced, (at Quilter Labs' discretion) with a like or comparable product, without charge. To receive warranty service, return the complete product to Quilter Labs, LLC, with proof of purchase, during the applicable warranty period. The Quilter Labs Dealer from whom you purchased your product may also be authorized for warranty service and should be the first point of contact when service is required. TRANSPORTATION COSTS ARE NOT INCLUDED IN THIS LIMITED WARRANTY. Any repair or service performed by any person or entity other than an Authorized Quilter Labs Electronics Service Center is not covered by this limited warranty.

Other questions regarding this warranty can be answered by calling (714) 519-6114 or by contacting your authorized Quilter distributor. Email: info@quilterlabs.com

FACTORY SERVICE

To return an amplifier to Quilter Labs for service under the warranty policy, please visit www.quilterlabs.com and fill out the Return Request Form. If you do not have access to the website, you may send a request by letter to Quilter Labs at 1700 Sunflower, Suite A, Costa Mesa, CA 92626. Please include the serial number of the amplifier and a copy of your sales receipt. Instructions on how to send your amplifier will be provided. Do not attempt to open the amplifier and service it yourself. Any attempt to service the amplifier by a non-authorized service technician may void your warranty.

FCC STATEMENT REGARDING RADIO INTERFERENCE.

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 product into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

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