

J230-0300rB

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INSTALLATION INFORMATION EMG MODEL: B-30 AND B-64 3 BAND EQUALIZERS (ACTIVE / PASSIVE PICKUP INPUT)

SPECIFICATIONS Input Impedance (Ohms) Gain/Attenuation/ Frequency Bass Control Gain/Attenuation/ Frequency Mid Control Gain/Attenuation/ Frequency Treble Control	B-30 EQ 1 MegOhm +/-12db/20Hz +/-10db/900Hz +/-12db/7 5KHz	B-64EQ 500K Ohm +/-10db/30Hz +/-10db/600Hz +/-12db/6KHz
Input Referred Noise	-120dhV	-120dbV
Output Impedance (Ohms)	2K Ohm	2K Ohm
Supply Voltage	9 Volts	9 Volts
Current @ 9V/18V	600/740uA	1.5/1.7mA
Battery Life (Hours)	750	375
Maximum Supply (Volts DC)	27 Volts	27 Volts

GENERAL OPERATION

The B30 and B64 Equalizers are designed for contouring bass, mid and treble frequencies of bass guitar. The B30 features single-pole filters for broadband equalization at 6db per octave. Often the broader single-pole filters are preferred for musical instruments because they are less selective, easier on the ear, and sound more "musical". The B64 has a tighter filter bandwidth and has more of a pronounced effect from each control. The mid-cut of the B64 is perfect for "funk" with it's mid-range centered at 600 HZ. Both the bass and treble controls of the B64 have tighter bandwidth and don't creep into the mnid-range as much as the B30. Both are illustrated in the graphs on the next page.

BATTERY POWER:

If you play the instrument very hard, and are boosting any band heavily you should consider operating the instrument on +18 Volts (See "Power Tips" under Accessories/product data sheets at http://www.emgpickups.com. If you play mildly and use a minimum of boost the instrument should operate easily on a single 9-Volt battery. Use an Alkaline or Lithium battery for the best battery life and always unplug your guitar when you're not using it.



WARRANTY

All EMG Pickups and accessories are warranted for a period of two years. This warranty does not cover failure due to improper installation, abuse or damage. If upon examination the pickup is determined to be defective, a replacement will be made. Warranty replacement products are covered by this same warranty. This warranty covers only those pickups and accessories sold by authorized EMG Dealers. This warranty is not transferable.



Installation Instructions: EMG Model: B-30 and B-64 Bass Equalizers

Notes about Equalizers:

Glancing at the Frequency response curves below shows that they are remarkably similar but in reality they are not. As you can see the Low Frequency (Blue) curves and the High Frequency (Red) curves are very different. The B-30 has a much broader effect on low frequencies and "creeps"into the mid-range frequency region

The Mid-range frequency response (Green) on both units is similar because mid-range frequencies when boosted on a bass guitar can get rather mean. The mid-range frequency equalizer is usually used to cut the amountof mid-range. Both equalizers are designed to limit the amount of overall gain loss when cutting the mid-range frequency region.





B64 (B/M/T) BASS EQUALIZER CONTROL RESPONSE



The B30 and B64 Controls are easily installed by using the connector cables supplied. Diagram #1 shows the cables connected. This 5-pin layout is the same for all EMG Accessories, so they can be interchanged.



There are a variety of ways instruments can be wired. The examples shown here are only a few. If your instrument has different wiring than shown here go to our website: http://www.emgpickups.com for alternate diagrams.

Diagram #2 below shows the installation of a single Volume control along with either equalizer.

Diagram #3 shows the same installation with the Volume control following the EQ. This is the preferred wiring order with the Volume control wired last just before the output jack



BATTERY



Installation Instructions: EMG Model: B30 or B64

$2\ \text{Pickups},\ 2\ \text{Volume controls},\ \text{B30}\ \text{or}\ 64,\ \text{no}\ \text{selection}\ \text{switch}\ J\text{-Bass}\ \text{Style}\ \text{wiring}$

Refer to Diagram #4

- Install the Pickups and route the Pickup cables to the control cavity. If the cables are too long, keep any excess under the pickup.
- 2) Mount the Volume and Tone controls into the body / pickguard. Plug the Neck Pickup Cable onto the Neck Volume control. Plug the Bridge Pickup Cable onto the Bridge Volume control.
- 3) Plug a coax cable from the Neck Volume control to the Bridge Volume control.
- 4) Plug a coax cable from the Bridge Volume control to the BTS Control.
- Plug the output cable from the EQ Control and connect the output wires to the output jack by pushing the connectors on as shown.
 WHITE wire onto the TIP (T) contact,
 - BLACK wire onto the SLEEVE (S) contact,

BLACK Battery Negative wire onto the RING (R) contact.

- 6) Plug the RED Wires of the pickups onto the V+ Supply Buss (RED Shroud) along with the RED of the battery clip.
- Extra pins on the V+ Supply Buss are for EMG Accessories.
- 7) Put the battery in the insulating foam piece provided and place it securely in the control cavity.
 - We suggest that you plug in the instrument and test it before closing the control cavity.



Installation (Two Pickup Guitars with Selection switch):

Guitars with two pickups and a selection switch will use the EMG B245 Pickup Buss shown at the right in Diagram #5a.

The Pickup Buss is a convenient way to wire your guitar without soldering. There is a separate sheet attached to these instructions that describes the Pickup Buss in detail.

In all installations it's best to find a place to mount the Pickup Buss in the control cavity before starting. Then, after the cables are routed use the velcro to mount it securely.

2 Pickups / Toggle Select Switch / Master Volume and B30/B64

- Install the Pickups and route the Pickup cables to the control cavity. If the cables are too long, wind up the excess and keep it under the pickup.
- Mount the Volume and Tone controls into the body.
 Plug both Pickup cables into the Pickup Buss (BLACK Shroud) as shown,
 - Refer to Diagram #5a
 - Bridge Pickup to Position 1
 - Neck Pickup to Position 2.

Diagram #5b

- 3) Plug a coax cable from the Pickup Buss (Position 3) to the Master Tone (Active) as shown in Diagram #5b. Note the reversed connector on pins 1 and 2.
- 4) Plug a coax cable from the Master Tone (ACTIVE) to the Master Volume as shown.
- 5) Strip the insulation from the switch wires and Insert them into the GREEN Terminal Block and tighten the screws with a small screwdriver.
- The Bridge pickup goes to the BR Terminal
- The Neck pickup goes to the NK Terminal
- The Output of the switch goes to the O Terminal
- If there is a ground wire coming from the switch, insert it into one of the black terminals on the terminal block.



- 6) Plug the output cable onto the Master Volume control and connect the output wires to the output jack and push the connectors onto the jack as shown. WHITE wire onto the TIP (T) contact,
- BLACK wire onto the SLEEVE (S) contact
- BLACK Battery Negative wire onto the RING (R) contact.
- 7) Plug the RED Wires of the pickups onto the V+ Supply Buss (RED Shroud) along with the RED of the battery clip, and the RED wire of the Equalizer. Extra pins on the V+ Supply Buss are for EMG Accessories.
- Put the battery in the insulating foam piece provided and place it securely in the control cavity.
 - We suggest that you plug in the instrument and test it before closing the control cavity.



