

Boogie®

—Five-Band Graphic EQ—

OWNER'S MANUAL

MESA
ENGINEERING®

SAFETY PRECAUTIONS:

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with dry cloth.
- Be sure to use only properly rated power adapters or universal power supplies (pedal board power supplies) with appropriate attention paid to proper voltage, amperage and ground schemes. Improper voltage/amperage being provided to the pedal may cause poor tone, inconsistent performance, damage to the unit or all of the above. Proper voltage, amperage and grounding specs are supplied at the end of this manual.
- REPLACE THE BOTTOM LID after battery replacement or switch adjustment before the unit is used. Some electronic parts inside are static sensitive and can be damaged from even a small static charge from contact with carpet or other conductive surfaces. To do an A/B comparison between BOOST and NORMAL with the bottom removed—play the unit upside down. DO NOT SET A POWERED UNIT “CONTROLS UP” ON A METAL (or any) SURFACE WITH THE BOTTOM REMOVED!

Congratulations on your choice of MESA/Boogie® and welcome to the MESA® Family! The same passion for excellence, commitment to quality and dedication to customer satisfaction is present in each and every product we make in our one- and-only shop in Petaluma, California, U.S.A. Rest assured that the very same people that hand-build the finest amplifiers in the world built your pedal and you have access to the same resources for help that all our customers do. Call on us anytime and enjoy!

Boogie® Five-Band Graphic

In the early '70s, Boogie® sounds were most associated with singing, vocal-inspired lead work as Artists learned the newfound possibilities of its high gain tube preamp and it's game-changing sustain. The Graphic EQ aboard most fully loaded "Hun-Revs" of the day found their sliders set for a subtle widening effect or enhanced Bass response to mimic bigger cabinets with the little 1x12 combo. As the era of Classic Rock faded and the dawn of Metal appeared on the horizon in the late '70s and early '80s, the potential power of this on-board tool began to be fully realized. Graphic-loaded MARK II Boogie's became the norm and most of these on-board EQs were used to scoop the mids to extreme levels while boosting lows and highs and this "V-Curve" became a new standard... the "other sound" (non-Brit) in Hard Rock and Metal. Since then MARK III, IV and FIVE Boogie's all have their place in Rock history through iconic Artists and the Graphic EQ has been an integral part of their sound. The Five Band Graphic EQ aboard the current MARK FIVE™ Boogie® is again at the forefront of emerging styles as a whole new generation crafts

their own unique brand of heavy sounds in Djent and Nu-Metal genres. Now we're proud to introduce the stand-alone Pedal version of this piece of Rock history built with the same quality parts and hand-built in our Petaluma facility. Now you can incorporate this powerful shaping tool into any setup (including non-guitar applications) whether in the Front End or in an Effects Loop and create your own unique signature Tones. The same long-throw 32mm Sliders are used to achieve maximum resolution and finite adjustment. Both INPUT and OUTPUT LEVEL Controls are fitted to ensure optimum matching of both your Source and Destination regardless of your application. Whether used it in front of your amplifier's Input or in your Effects Loop, it gives you a footswitchable Tone option you can employ on demand. And when it's not engaged, your sound is pure and unaltered thanks to the Hard Bypass Feature. The Boogie® Five Band Graphic runs on one 9 Volt battery (as the mA draw of this pedal is only 18mA) and can also be powered by a standard DC Wall Transformer. This pedal brings the power of the Boogie® Five Band Graphic and its classic "V-Curve" Tone—as well as near-limitless other Tone possibilities—to players of all experience levels, musical needs and amplifier brands in a small pedal board-friendly format that's hand-built in the USA using the finest materials.

FEATURES & CONTROLS

OUT This 1/4" phono jack is the OUTPUT for the device. Connect the OUTPUT to the Input of your amplifier (or the INPUT of the next device in line) with a shielded cable of good quality and of the shortest length possible.

IN This ¼" phono jack is the Instrument Input for the device. Plug the Output of your guitar into this jack with a shielded cable of good quality. The jack is a switching type jack and the circuit is turned on when a cable is inserted. When the circuit is activated by inserting a cable, the internal battery is being used to power it—so be sure to unplug the cable from the INPUT when it's not in use.

NOTE: *The internal battery is switched to an "ON" state (supplying voltage and drawing current) by a switching element in the INPUT jack. To prolong battery life, disconnect the cable from the ¼" INPUT jack whenever the unit is not in use.*

NOTE: *If you wish to leave the INPUT connected permanently—as in a pedal board scenario—it is advisable to power the unit with an external DC 9V power supply. When an external (plug-in) DC 9-volt power supply is used to power the unit, the DC jack on the pedal automatically disconnects the battery to avoid battery wear and preserve its useful life. If you are going to use external DC power either for long periods or permanently in a pedal board set-up, remove the internal battery to prevent (forgotten) battery corrosion.*

NOTE: *A Word on Cables... Always use shielded instrument cables of the best quality and shortest length possible when connecting these types of devices. This will minimize degradation of your sound, particularly high frequency roll-off, due to the added capacitance in longer lengths of cable. We recommend no more than 18-20 feet total (Input and Output combined) between your instrument and the termination at the INPUT of the amplifier. If you must use longer cable lengths, you might consider the use of a Buffer or Line Driver to keep the tonal integrity intact. While these change the sound slightly, it will usually be preferable to top end roll-off. And yes—those little 4" interconnects count too, so include them in your cable length.*

OUTPUT LEVEL This control determines the final output strength to the host amplifier, but the INPUT LEVEL may also increase the signal strength (and volume) at the OUT jack if it is turned up after you have set the OUTPUT level. Within the range of the OUTPUT LEVEL you should find plenty of room for adjustment to accommodate almost any interfacing scenario, though this pedal has been optimized for use with either the INPUT or EFFECTS LOOPS of guitar amplifiers. When the OUTPUT level control is set at its detent or center position it has unity gain and is not affecting the signal level amplitude at all.

INPUT LEVEL This control allows fine-tuning of the incoming source to the Graphic EQ so that you can easily match it to instruments or EFFECTS SEND levels from a host amplifier. For optimum performance and fidelity it is advisable to set the INPUT LEVEL so as not to overdrive the EQ circuit's input stage. Too hot of a signal mixed with very high INPUT LEVEL settings could result in unwanted clipping. The center detent at 12:00 noon provides a unity gain output signal (assuming the OUTPUT LEVEL and EQ Sliders are at their center detents as well).

NOTE: UNITY GAIN *The INPUT LEVEL and OUTPUT LEVEL control's center detents at 12:00 noon will provide a unity gain (no amplitude/volume change) signal level when the EQ Sliders are also set at their center detent. Between these two LEVEL controls you should have more than enough control over the signal to adapt to most any application you wish to use the Boogie® Five-Band Graphic in. Experiment with the two LEVEL controls until you find a setting that produces a signal level with the Graphic EQ active (EQ IN) that is roughly equivalent to the BYPASS Mode (unity gain) as you toggle the Five-Band Graphic IN and OUT of your signal path.*

Five-Band Graphic The GRAPHIC EQ provides for +/- 12db of boost or cut in each band of the five Slider pots. This makes for a very powerful response and you can easily blow holes (cut) or add unpleasant peaks (boost) in your sound if it is not used with taste and musicality in mind.

While there are almost limitless ways to set the Sliders and craft your own signature sound, one “curve” in particular has found its place in Rock history and this is the classic “V-Curve”. Here the center (Midrange) 750 (Hz) Slider is dipped to scoop out substantial amounts of midrange creating a hollow sound.

Next the two Low (80 Hz) and Low Mid (240 Hz) Sliders are boosted to just above the grid line between middle and top lines to create huge “tuned” bottom end.

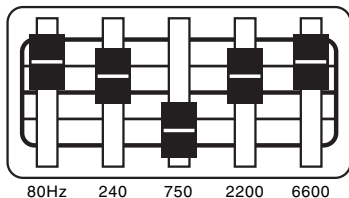
And finally the Hi Mid (2200 Khz) and High (6600 Khz) Sliders are also boosted to just above the grid line between center and top lines to add cut and harmonic layers in the top end.

There you have it... the Boogie® V-Curve. Many iconic Artists have used this setting over the last four decades and for Heavy styles there aren't many things that come close to this incredible sound. And this mid-dipped curve works for other applications as well as it puts a smile on every-thing and makes things big and exciting.

From there you will want to adjust the Sliders to fit your amp, cabinet, speakers, guitar, pickups and hands to achieve the version of this iconic “V-Curve” sound that you like. Though we've given you an example that is extremely popular, there is no “right” curve here. Just experiment until your ears and hands are happy.

NOTE: May we suggest frequently referencing a “Flat” (EQ OUT) sound as you dial for Tone as it is very easy to get an “EQ Hangover” and apply more EQ than is necessary. This especially applies to the 750Hz (center) Slider. As your ear adjusts to less and less midrange, many people crave more and more. Just remember the guitar is a midrange instrument and you will likely need some mids to cut through a mix and sound present.

Example of Classic “Boogie V-Curve”



The curved bar just below the Sliders has been fitted to help protect the Sliders and prevent accidental bumping of them by the stray shoe in performance situations.

BYPASS This footswitch is pretty self-explanatory... it “hard” bypasses the Boogie Five-Band Graphic. It removes all circuitry from your signal path and uses a piece of wire from the INPUT to the OUTPUT. It is the same as having a very short piece of wire in line with your guitar’s signal cable. When in BYPASS Mode none of the controls on the Boogie® Five-Band Graphic have any effect on the signal and you can rest assured your Guitar’s sound is not being altered in any way by the Boogie® EQ.

NOTE: Make sure to take into account that any length of cable more than a few inches may have some cable capacitance and roll off a bit of top end. Use as short of cables as possible to avoid this annoyance.

EXTERNAL POWER: DC IN JACK This standard female DC Receptacle on the pedal is the External Power Supply Jack and it accepts the male plug from a standard 9-Volt DC “wall-wart” power supply. When installing your unit into a pedal board utilizing a universal power supply (multi-output pedal board power supplies), connect the external power source here. SEE WARNING BELOW!

NOTE: The External DC Power Supply is Not Included. **WARNING!!!** To avoid immediate damage to your unit and the voiding of your warranty, the External Power Supply **MUST** be 9VDC with a **NEGATIVE CENTER** plug polarity and a jack size of 2.1mm x 5.5mm. Do NOT connect a (AC Voltage Power Supply to the EXT Power Jack!

BATTERY The internal battery is automatically disconnected by a switching element in the External DC Receptacle on the pedal. However, if

you know you will not be using battery power for an extended period—for example, if you are mounting the unit to your pedal board permanently - it is wise to remove the battery to avoid possible damage from long-term battery corrosion.

This unit can operate on either a 9-Volt battery or a standard 9-Volt “wall-wart” DC power supply. The unit is shipped from the Factory with a long-life 9-Volt Battery to facilitate easier trial demonstration in a music store environment.

NOTE: *The internal battery is switched to an “ON” state (drawing current and supplying voltage) by a switching element in the INPUT jack. Disconnect the cable from the ¼” INPUT jack whenever the unit is not in use to prolong battery life.*

To access the 9-Volt battery for inspection, replacement or removal; make sure the External Power jack is disconnected, remove the four Philips- head screws from the four corners of the bottom lid and remove it, note the orientation/direction of the battery and terminals—and remove it. Replace if necessary.

NOTE: *Any type of 9-Volt battery will work in this device if it is fully charged and functional. Carbon Zinc, Alkaline or even Nickel Cadmium Rechargeable type batteries are all acceptable replacements. Some pedal aficionados prefer the “sweetness” they claim to hear from standard Carbon Zinc type batteries, but you will have to decide what type best serves your needs.*

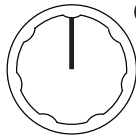
SPECIFICATIONS

- Dimensions: (W/D/H): 5.78" x 4.76" x 2.30" (146.8mm x 121mm x 58.4mm)
- Weight: 1.6lbs (725.7g) with battery, 1.5lbs (680.4g) without battery
- True Bypass Switching
- Battery Type: 9VDC (one)
- Power Consumption (Current Draw): 9VDC/18mA
- AC Adapter (Optional): Power Jack 2.1mm x 5.5mm, 9VDC with Negative Center (Regulated Recommended)
- Input Impedance: 1M Ohm (500k Ohm minimum)
- Output Impedance: 10k Ohm

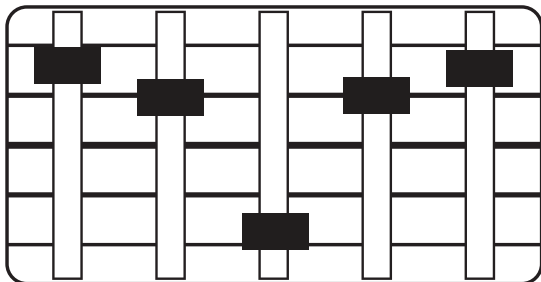
CLASSIC V-CURVE



OUTPUT
LEVEL



INPUT
LEVEL



80Hz

240

750

2200

6600

◀ OUT

IN ▶

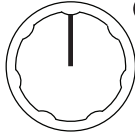
Boogie® Five-Band Graphic



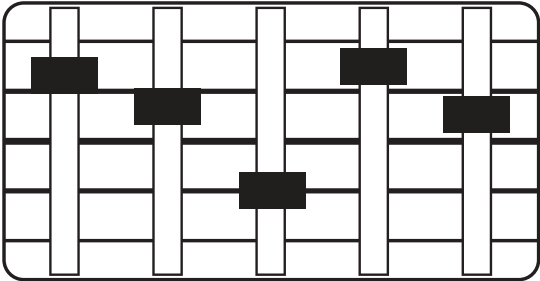
TIGHT MODIFIED V



OUTPUT
LEVEL



INPUT
LEVEL

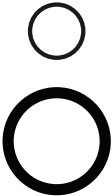


80Hz 240 750 2200 6600

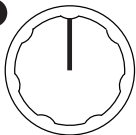
◀ OUT

IN ▶

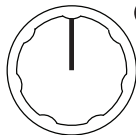
Boogie® Five-Band Graphic



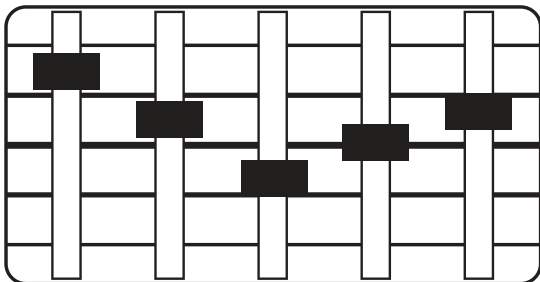
SMOOTH SCOOP



OUTPUT
LEVEL



INPUT
LEVEL



80Hz

240

750

2200

6600

OUT ←

IN ←

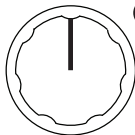
Boogie® Five-Band Graphic



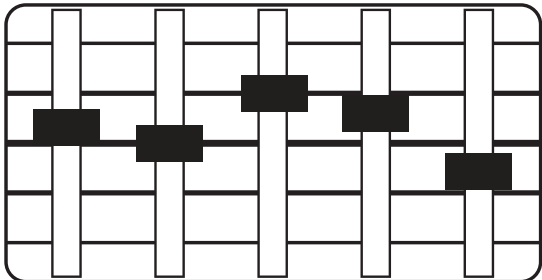
MID-BUMP SOLO



OUTPUT
LEVEL



INPUT
LEVEL

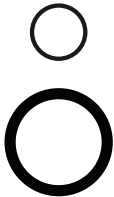


80Hz 240 750 2200 6600

OUT ←

IN ←

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The Spirit of Art in Technology



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