

BASSRIG

'64 BLACK PANEL OWNER'S MANUAL



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PLEASE READ ALL INSTRUCTIONS, PAY ATTENTION TO SAFETY WARNINGS.

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IMPORTANT:

**This product is designed to be powered from a 9VDC, >150mA
power supply with 2.1mm centre-negative barrel connector.**



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Introducing the BASSRIG '64 BLACK PANEL

The BASSRIG '64 Black Panel is an all-analogue amp recreation and overdrive pedal, based on the Fender® Showman® and Bassman® amps of the 1960s. Before the modern, high powered bass amps we know today, these big Fenders – along with their 2x15 cabs – were the go-to amps for live and studio musicians. Their warm, scooped clean tones and crisp overdrive epitomise soul, blues and rock 'n' roll – and we think those are some of the best bass tones in history! The BASSRIG '64 Black Panel recreates the sound, feel and character of these unsung heroes of bass.

Familiar, responsive controls let you dial in instantly recognisable vintage and modern tones, from deep soul and funk to growling heavy rock, while the BLEND control adds in clean signal for low-end clarity and extra articulation.

Our powerful AMP OUT EQ tailors the voicing of the pedal to suit any amp and cab, never compromising your clean tone, and the cabinet-simulated DI OUT means you don't need to use an amp at all – the perfect bass tone, direct to your PA or studio console.

The BASSRIG '64 Black Panel gives you pure vintage bass amp tone in a compact pedal for the modern player.

Key Features

All-Analogue Amp Recreation Including:

- Full valve amp-style signal path recreated using discrete, transistor-based circuitry
- Push-pull output section with reactive load, simulating interaction between amp and speaker
- Analogue 2x15 cabinet simulator

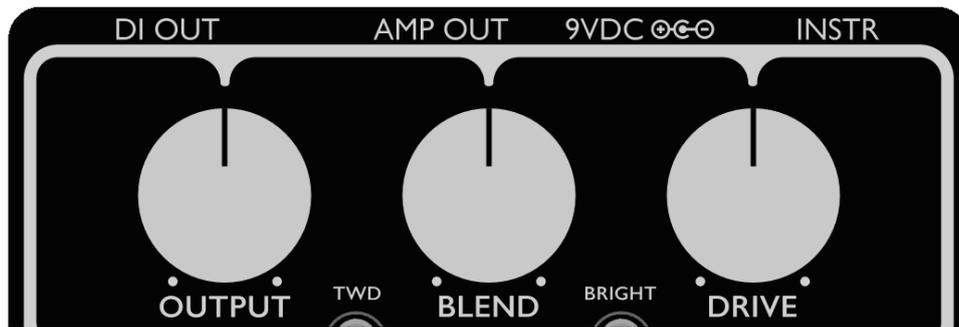
Flexible, intuitive controls:

- Wide gain range, from clean to full-on saturation
- BLEND knob to mix in your dry signal
- Powerful tone-shaping AMP OUT EQ

Peerless Build Quality:

- High-current, low-noise electronics
- Ultra-high input impedance
- High-quality buffered bypass
- Advanced power supply filtering and protection
- Premium components throughout
- Designed and built in England

Connecting the **BASSRIG '64 BLACK PANEL**



9VDC: Connect a 9VDC 2.1mm centre-negative mains power adaptor (minimum 150mA).

INSTR: Connect to your bass, guitar or other instrument.

AMP OUT: Connect to your amp or power amp.

DI OUT: Connect to your mixer, audio interface or PA system.

Main Controls



DRIVE: The gain control functions exactly like the volume knob on a non-master-volume valve amp. Turn it clockwise for more gain, drive and distortion. Turn counterclockwise to clean things up.

BLEND: This control blends in your clean signal in parallel with the recreated amp tone. Set the control fully clockwise then turn it counterclockwise to progressively mix in your original clean signal. This can help add definition to your tone, especially in the low end when using overdriven sounds.

Main Controls (continued)

OUTPUT: The output control sets the pedal's overall output level. As it isn't part of the BASSRIG's recreated amp circuitry, the OUTPUT control will not alter the pedal's overdrive character. It simply lets you make it louder or quieter.

TREBLE: Just like on the original Fender® amps, the tone controls are placed before the overdrive. Turning the TREBLE control up will not only increase top end but also change the character of the overdrive, making it grittier and more aggressive. Turning this control down will result in a warmer tone and softer overdrive.

MIDDLE: This control alters the mid frequency content. Turning this control up will result in a richer, denser tone, while turning it down will produce a scooped, hollow sound.

BASS: This control adjusts the amount of low frequencies as well as how "tight" or "thick" overdriven tones are. In general, higher BASS settings work better with cleaner sounds, with some really deep tones available. Heavily overdriven sounds can benefit from having the BASS turned down, preventing the distortion from becoming too "wooly". But there are no rules – use a clean sound with the BASS set low for a percussive '60s tone, or turn the DRIVE and BASS up and unleash some fuzzy mayhem!

BRIGHT/FAT switch: The BRIGHT position behaves like a standard bright switch, adding extra high frequencies in the preamp. Its effect is reduced as the DRIVE is increased. In both the BRIGHT and centre positions, the pedal's emulated output stage is configured like a Fender® Showman® – as this stage begins to distort, bass frequencies are increasingly removed, keeping the low end tighter and more stable. The FAT position changes the output stage to emulate the Bassman® circuit, retaining low frequencies as this stage distorts. At cleaner settings, this can add warmth and depth to the sound. As the DRIVE increases, FAT mode will begin to sound out-of-control – and this can be a lot of fun!

BLK/TWD switch: Switching to the TWD setting changes the pedal's tone stack to a Fender® "Tweed" circuit. The BLK setting selects a standard Fender® "Black Panel" tone stack. Switching from BLK to TWD will add mids and gain for a more throaty, aggressive voice.

AMP OUT EQ Controls



The post-drive AMP OUT EQ ensures compatibility with a wide range of amps and cabs. Instead of compromising your amp's tone controls to suit the BASSRIG, set your amp for your preferred clean sound then use the EQ controls to adjust the pedal's output accordingly (see tables on page 8).

HORN CUT EQ switch: This switch engages a choice of low-pass filters for use with tweeter-equipped cabs. Even with the most modern, hi-fi cabs, this will allow the BASSRIG to produce a natural, smooth overdrive tone, without any harshness.

Choose between 2kHz or 4kHz depending on the response of your cab, or disable it altogether (centre position) when using a cab without a tweeter.

HF: This post-drive high frequency control cuts or boosts upper-mid and treble frequencies. This is perfect for adjusting the BASSRIG's high-end response to match your clean tone, adding some vintage speaker character to a modern cab or fine-tuning the effect of the HORN CUT filter.

LF: This post-drive low frequency control cuts or boosts bass frequencies. This is perfect for adjusting the BASSRIG's low-end response to match your clean tone, fattening up a small cab or taming excessive boominess in a big cab.

Using the DI OUT

This balanced XLR output is equipped with a meticulously engineered analogue cabinet simulator, accurately capturing the response of the Fender® Showman® 2x15 bass speaker cabinet. Using this output gives you the complete sound of a vintage bass amp direct to your recording console or PA system. No amp required. The DI output is designed for compatibility with a wide range of microphone and line level inputs. Its output level is configured to prevent unwanted clipping at the mixer or interface to which the pedal is connected.

DI CAB SIM switch: Lets you select whether the cabinet simulator is always on or only active when the pedal is engaged. Select FX if you want a completely clean DI signal when the pedal is bypassed. Select FX+BYP if you want to keep the cab sim on, even when the pedal is bypassed – for example: if you want to use the BASSRIG cab sim with other drive pedals.

DI GROUND switch: Lifts the ground of the DI Output. This is necessary to avoid unwanted ground loop hum when connecting the BASSRIG to multiple pieces of equipment (e.g. a bass amp and a PA system). If you hear a hum when connecting the BASSRIG to two pieces of equipment, set this switch to LIFT.

If you are only connecting the BASSRIG's DI OUT, this should be set to GND. This switch does not affect the AMP OUT.

Setting your AMP OUT EQ:

Use the tables below to help you set up the BASSRIG '64 Black Panel for the first time with a new bass amplifier or flat-response device. Working through Steps 1 and 2 allows you to “set-and-forget” the AMP OUT EQ controls and move on to having fun dialling in your ideal tone with the main controls.

Step 1: Set HORN CUT for the connected amp or device

AMPLIFIER OR CONNECTED DEVICE	HORN CUT SWITCH POSITION
Amplifier and horn-loaded cab	2k or 4k, depending on cab crossover frequency
Amplifier and non-horn-loaded cab	Off
Direct to mixer, PA or interface from DI OUT	The Amp Out EQ does not affect this output.

Step 2: Fine-tune the AMP OUT EQ with the HF and LF controls

HOW IS THE BASSRIG's TONE?	ADJ CONTROL POSITION
I used the HORN CUT switch and my tone is still fizzy	Try turning the HF control counterclockwise
I used the HORN CUT and now my tone is too dull	Try turning the HF control clockwise
It sounds too boomy through my big cab	Try turning the LF control counterclockwise
It sounds too thin through my small cab	Try turning the LF control clockwise
It's perfect!	Great. Stop tweaking and start playing!

*Please note: the AMP OUT EQ is only applied to the AMP OUT jack. The DI OUT is not affected.

Sample Settings



SOUTHERN JAM

Inspired by the bluesy bass of Origin Effects' favourite Southern jam band, this is the definitive Showman® tone. Tight and punchy low end, a touch of gritty overdrive and the perfect balance of warmth and clarity in the mids.



MOTOR CITY

When you think of Fender® amps for bass, you think of '60s soul records. Engaging the FAT switch adds a little warmth and weight to this clean, clear and inspiring tone. This is the sound that made great songs better.



'60s BEAT GROUP

Although the Fab Four were often seen with British amps, many of their greater (and later) bass tones were recorded using a Fender® Bassman®. Fat, percussive and full of character, this tone is pure '60s pop.



CRANKED OLD AMP

There's something special about the raw aggression of an old amp circuit pushed way beyond its limits. The unhinged character of high DRIVE settings, FAT switch and TWD tone stack are kept in check by backing off the BASS and adding some clean BLEND.

Appendix A: Physical Specification

Measurement	Unboxed	Boxed
Weight	846g (30oz)	930g (33oz)
Length	146mm (5.7")	160mm (6.2")
Depth	92mm (3.6")	116mm (4.5")
Height	64mm (2.5")	93mm (3.7")

Appendix B: Performance Specification

Measurement	Value
Input impedance	1M Ω
Output impedance	500 Ω
Current draw	150mA
Power supply requirements	9VDC 2.1mm centre negative connector

Appendix C: Connector Pin Out

DI OUT male XLR:

Pin	Description
Pin 1	Ground
Pin 2	Positive
Pin 3	Negative

Instrument & Amplifier 1/4" TS Sockets:

Pin	Description
Tip	Signal
Sleeve	Ground

Appendix D: Safety Notices

General Safety

Keep these instructions and heed all warnings. Do not use this apparatus near water. Clean only with a dry cloth. Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat. Refer all servicing to qualified service personnel.

When using an external power supply, use only attachments/accessories specified by Origin Effects. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus. Do not defeat the safety purpose of the polarised or grounding-type plug. A polarised plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet. Unplug this apparatus during lightning storms or when unused for long periods of time.



CAUTION! No user-servicable parts inside. In the event of damage to the unit, service or repair must be done by qualified service personnel only.



This Product is CE compliant.



This product is UKCA compliant.

FCC Certification

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 equipment 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.

Appendix D: Safety Notices (continued)



The crossed out wheeled bin symbol indicates this product is classified as Waste Electrical and Electronic Equipment (WEEE) in the European Union and should not be discarded with household waste. Other territories may vary. Contact your local authority or Origin Effects for more information.

RoHS

This product conforms to the European Union's directive 2011/EU on Restrictions of Hazardous Substances (RoHS).



WARNING: This product can expose you to chemicals including nickel, which is known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov



Evaluation of apparatus based on altitude not exceeding 2000m. There may be some potential safety hazard if the apparatus is operated at altitude exceeding 2000m.



Evaluation of apparatus based on temperate climate conditions only. There may be some potential safety hazard if the apparatus is operated in tropical climate conditions.

Appendix E: Warranty

This product is covered by a 2-year manufacturer's warranty from the date of purchase. This applies only to original purchasers who have bought their product from an authorised Origin Effects dealer or directly from Origin Effects.

All returns or servicing should be arranged through the original dealer. Proof of original ownership may be required in the form of a purchase receipt.

For full warranty details visit www.origineffects.com/warranty.