

# BASSRIG

## '64 BLACK PANEL OWNER'S MANUAL



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## Safety Notices:

### General Information:

This document contains important information for the safe operation of the product. Read and follow the safety instructions and all other guidance. Our products and documentation are subject to a process of continuous development. They are therefore subject to change. Please refer to the latest version of the documentation, which is available on our website <https://origineffects.com/manuals/>

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, stoves or other apparatus (including amplifiers) that produce heat. Refer all servicing to qualified service personnel.



#### **NOTICE!**


**Damage may be caused to the device should it be tampered with!**

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

### Symbols and signal words:

In this section you will find an overview of the meaning of symbols and signal words that are used in this document.

Signal Word	Meaning
DANGER!	This combination of symbol and signal word indicates a dangerous situation that could result in serious injury or even death if it is not avoided.
WARNING!	This combination of symbol and signal word indicates a potentially dangerous situation that could result in serious injury or even death if it is not avoided.
NOTICE!	This combination of symbol and signal word indicates a potentially dangerous situation that could result in material and/or environmental damage if it is not avoided.

Warning Symbol	Meaning
	Warning - dangerous situation

## Safety Instructions:

### Intended use:

This device is intended for use as effects pedal for sound processing of signals from musical instruments with electromagnetic pickups. Any other use or use under other operating conditions is considered to be improper and may result in personal injury or property damage. No liability will be assumed for damages resulting from improper use.

### Safety:



#### **DANGER!**

##### **Risk of injury and choking hazard for children!**

Children can suffocate on packaging material and small parts. Never allow children to play with packaging material or the device. Always store packaging material out of the reach of babies and small children. Always dispose of packaging material properly when it is not in use. Never allow children to use the device without supervision. Keep small parts away from children and make sure that the device does not shed any small parts (such as knobs, rubber feet) that children could play with.



#### **WARNING!**

##### **Possible hearing damage due to high volumes on speakers, headphones, bass & guitar amplifiers!**

With loudspeakers or headphones connected, the device can produce volume levels that may cause temporary or permanent hearing impairment. Over an extended period of time, even levels that seem to be uncritical can cause hearing damage. Do not operate the device permanently at a high volume level.

Decrease the volume level immediately if you experience ringing in your ears or hearing impairment and seek medical advice.



#### **NOTICE!**

##### **Damage to device if powered incorrectly!**

This product is designed to be powered from a 9VDC, >150mA power supply with 2.1mm centre-negative barrel connector. Use of an incorrectly rated power supply could result in damage to the pedal and the power supply.



#### **NOTICE!**

##### **Possible staining due from rubber feet!**

The plasticiser used in the manufacture of the rubber feet on this product may react with floor coatings and result in permanent dark stains after some time. If necessary, use a suitable mat to prevent direct contact between the device's rubber feet and the floor.

## 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 3 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:

- Faithfully recreates the sound and feel of the Fender® Showman® and Bassman® amps
- Complete, valve amp-style signal path recreated in all-analogue circuitry
- Simulated push-pull power amp with reactive load
- All-analogue 2x15" cabinet simulator and DI output
- Extensive AMP OUT EQ controls ensure compatibility with any rig
- BLEND knob to mix in clean signal
- High-quality buffered bypass
- Premium components throughout
- Designed and built in England

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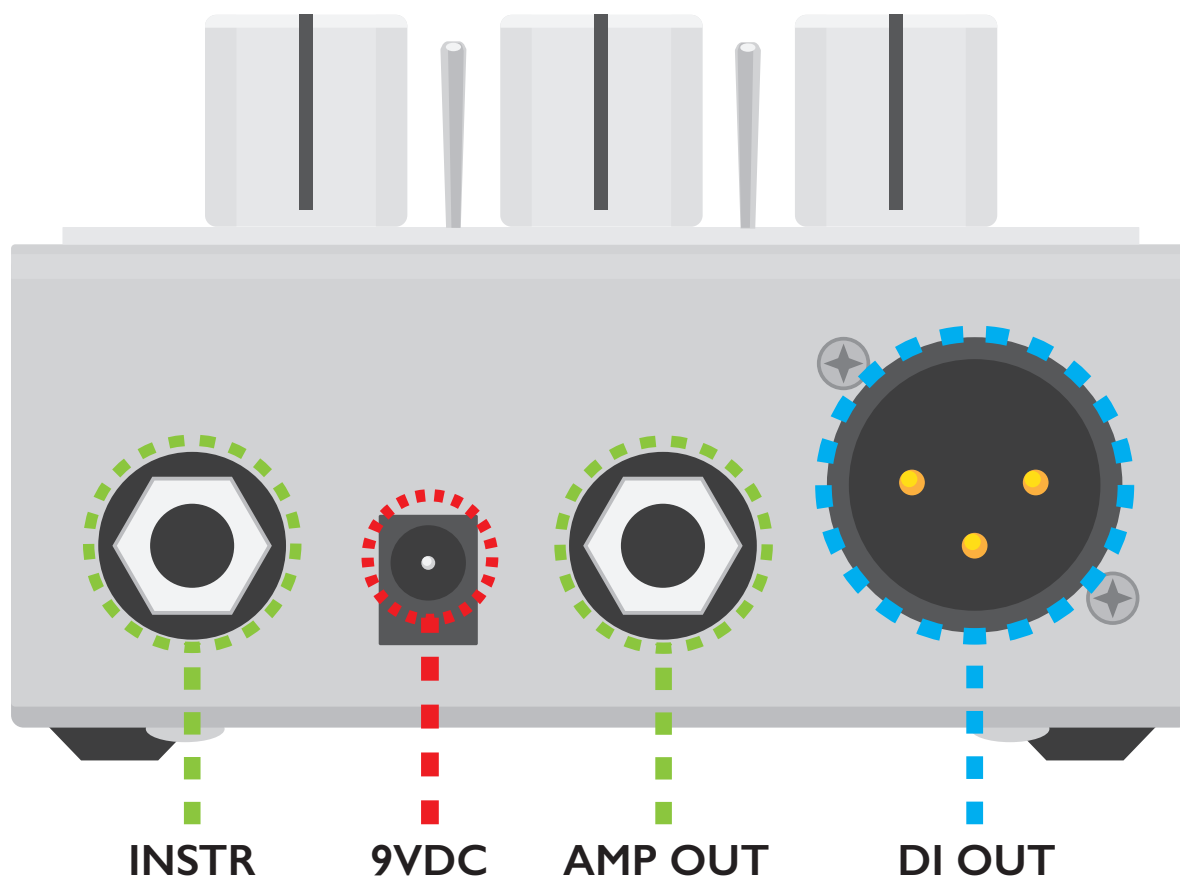
## What is an Amp Recreation?

Amp Recreation is the name we give to our range of all-analogue pedals that recreate the sound and feel of desirable vintage valve amplifiers. Our BASSRIG Amp Recreations are all-in-one amp and cab simulations, and can be used as an "ampless" rig, direct to a PA or recording interface. They can also be used instead of an amp block in a modeller to give a more realistic amp tone. They can be used into a power amp and cab, and of course they can be run into the front end of a traditional amp.

When we say "Amp Recreation", we really mean it! Each Amp Recreation pedal contains the complete signal path of a vintage valve amplifier, except the valves! We use carefully designed transistor-based circuitry to capture every tiny detail of the real amps' circuitry, informed by many hours of meticulous testing and measurement with the original amps. These pedals contain a preamp stage, phase inverter, simulated push-pull power amp and reactive load. All these are crucial to providing the authentic tones and the playing experience of vintage amps.

The BASSRIG Amp Recreations feature an analogue cabinet simulator and balanced DI OUT and an AMP OUT EQ. These features allow you to run direct to a PA or recording interface, or tailor the sound going to your amp without having to compromise your amp's settings.

## Connecting Your BASSRIG '64 Black Panel



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



### NOTICE!

#### Damage to device if powered incorrectly!

This product is designed to be powered from a 9VDC, >150mA power supply with 2.1mm centre-negative barrel connector. Use of an incorrectly rated power supply could result in damage to the pedal and the power supply.

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

**AMP:** Connect to your amp or power amp.

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



### WARNING!

#### Possible hearing damage due to high volumes on speakers, headphones, bass & guitar amplifiers!

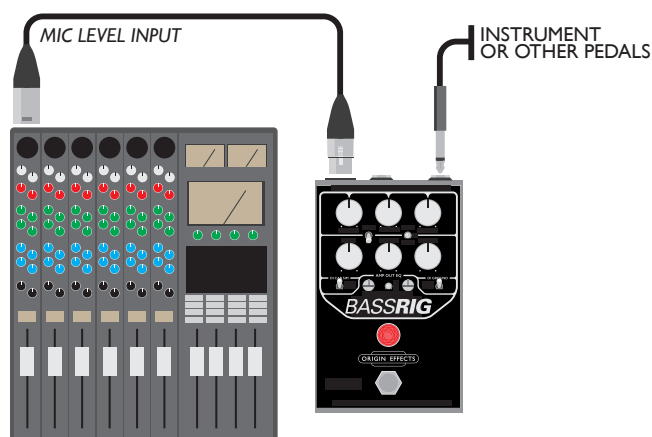
With loudspeakers or headphones connected, the device can produce volume levels that may cause temporary or permanent hearing impairment. Over an extended period of time, even levels that seem to be uncritical can cause hearing damage. Do not operate the device permanently at a high volume level. Decrease the volume level immediately if you experience ringing in your ears or hearing impairment and seek medical advice.

## BASSRIG '64 Black Panel in Your Rig

### BASSRIG '64 Black Panel direct with a PA or recording setup:

The DI OUT 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. If your PA mixer or recording interface has the ability select between line and mic level, you should select mic level. If not, you may need to add some gain at the input of your mixer/interface.

When using the DI OUT only, the DI GROUND switch should be set to GND (see: Page 12 – DI OUT). For direct-to-PA gigs, we recommend setting the DI CAB SIM switch to ON or FX.



### BASSRIG '64 Black Panel with a bass amp:

The BASSRIG '64 Black Panel's 1/4" AMP OUT is designed to work with a typical bass amp or power amp, paired with a bass cab. The AMP OUT can be connected either to the input of your bass amp, or to the FX Loop return, bypassing your amp's preamp altogether.

If you want to turn your BASSRIG on and off to go from a modern clean tone to a more vintage tone, it is better to connect to the input of your amp. This means you'll still have the tone-shaping of your amp available for dialling in your clean tone. If you intend to leave the BASSRIG active all the time as your "core tone", you might prefer to connect to the FX Loop return, bypassing your amp's preamp altogether.

The AMP OUT EQ helps tweak the sound from the AMP OUT to help your cab sound more like a Fender® Showman® 2x15" cab, and to even out the differences between different cabs, e.g. rented backline (see: Page 13 - AMP OUT EQ Controls).



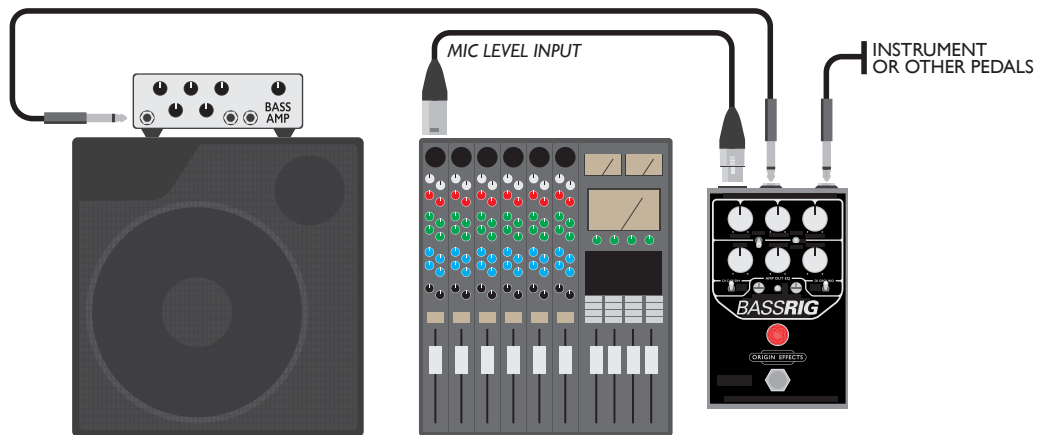
## BASSRIG '64 Black Panel in Your Rig (continued)

### BASSRIG '64 Black Panel with a bass amp & PA/recording setup:

The BASSRIG '64 Black Panel's AMP OUT and DI OUT can be used together to connect simultaneously to a PA system and an on-stage amp. This allows you to monitor your sound independently of what is being sent to the PA.

When running this setup, all the "Amp Recreation" controls (DRIVE, BLEND, OUTPUT, BASS, MIDDLE, TREBLE, and BRIGHT/FAT and BLK/TWD switches) will affect both outputs, so it's best to set these once and leave them alone, otherwise any tweaks will change your sound in the PA too. Tweaks to your on-stage sound should be made either using the AMP OUT EQ controls or the controls on your amp.

When using both the DI OUT and AMP OUT, you may experience a ground loop hum. To eliminate ground loop hum, set the DI GROUND switch to LIFT.



### BASSRIG '64 Black Panel with additional pedals:

When using the DI OUT, the BASSRIG should be the last pedal in your signal chain, as it is simulating an amplifier and speaker cabinet. If you are using the BLEND knob to add clean signal, any boost pedals used in front of the BASSRIG will also increase the volume of the clean signal.

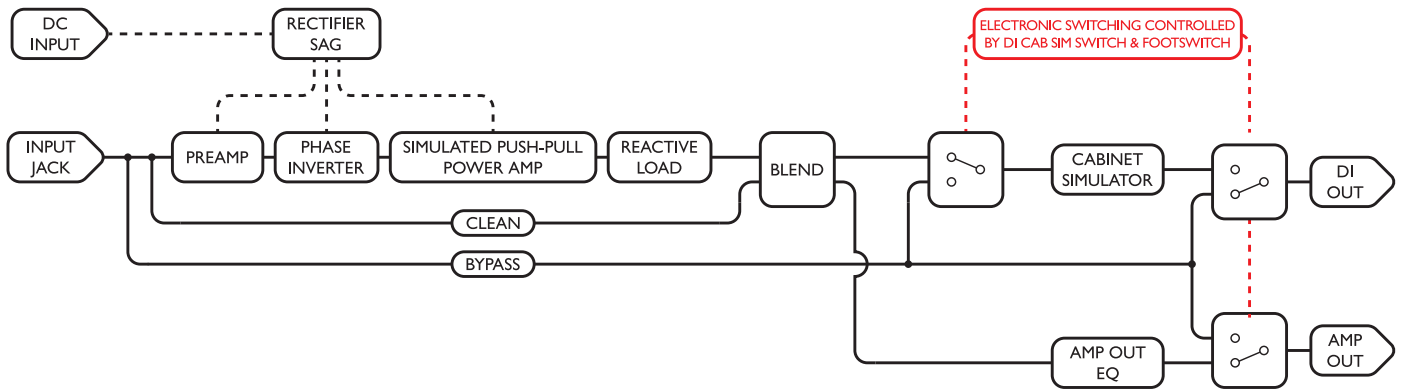
If you are only using the AMP OUT, you can be more flexible with signal chain placement. In this case, we still recommend that the BASSRIG is placed after any pedals that you would use in front of an amp, for example: fuzz, wah, compression, overdrive, octave and filter. Time-based effects can be placed before or after the BASSRIG, depending on personal preference.



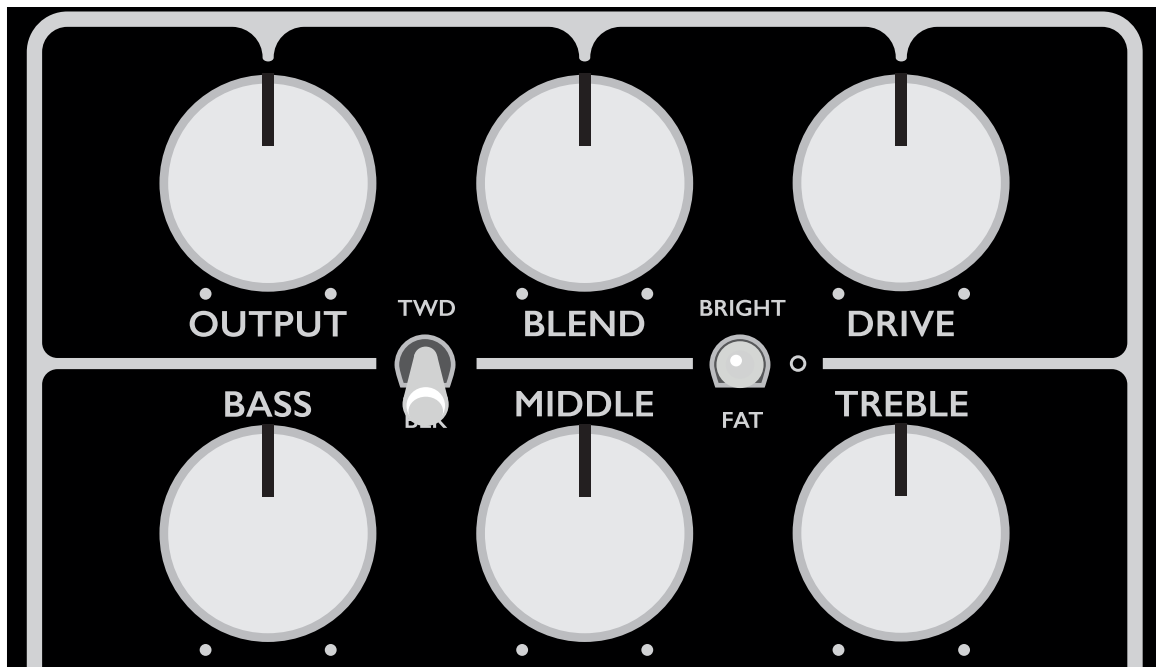
## BASSRIG '64 Black Panel Signal Flow Diagram:

What goes into an amp Recreation? The diagram below shows how the different parts of the Fender® Showman®/Bassman® have been recreated in the BASSRIG '64 Black Panel. For example, all the parts of the circuit that recreate valve stages are affected by simulated rectifier sag.

After the Amp Recreation circuitry, the signal is split. The cabinet simulator is applied to the DI OUT only, and the AMP OUT EQ is applied to the AMP OUT only.



## BASSRIG '64 Black Panel 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 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.

**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.

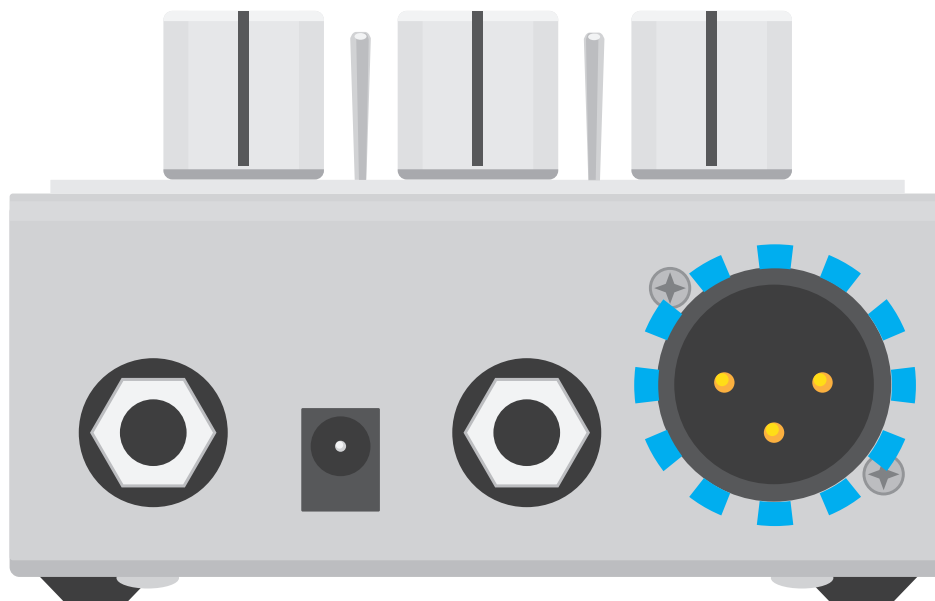
**BASS:** This control adjusts the amount of low frequencies as well as how “tight” or “thick” overdriven tones are. In general, higher BASS settings work better with cleaner sounds. More overdriven sounds can benefit from having the BASS turned down, preventing the distortion from becoming too “wooly”. But there are no rules – use a clean sound with the BASS set low for a more percussive tone, or turn the DRIVE and BASS up for fuzzier sounds.

## BASSRIG '64 Black Panel controls (continued)

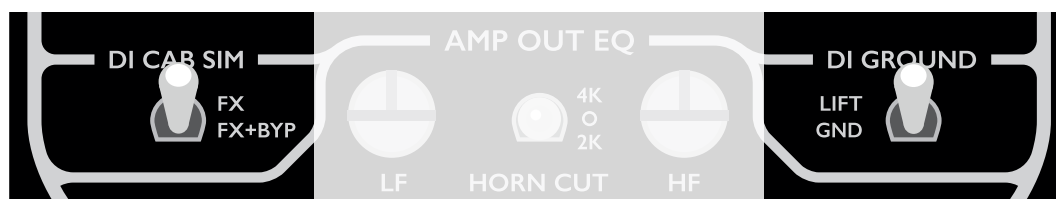
**BRIGHT/FAT switch:** The BRIGHT position behaves like a standard bright switch, adding extra high frequencies in the preamp. Its effect is reduced as the DRIVE is increased. In both the BRIGHT and centre positions, the pedal's emulated output stage is configured like a Fender® Showman® – as this stage 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.

## BASSRIG '64 Black Panel DI OUT



This DI OUT is a balanced XLR output equipped with an all-analogue cabinet simulator, accurately capturing the response of the Showman's 1x15" speaker cabinet. Using this output gives you the complete sound of a mic'd Showman direct to your recording console or PA system.



**DI CAB SIM switch:** Lets you select when the cab sim is active.

**FX:** Cab sim is only active when the pedal is active. This lets you use the BASSRIG as an accurate amp simulator when engaged and as a completely flat DI when bypassed.

**FX+BYP:** Cab sim stays active even when the BASSRIG is bypassed. This lets you use the BASSRIG as a cabinet simulator for other preamp and drive pedals.

**DI GROUND switch:** Lifts the ground of the DI OUT. 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.

## BASSRIG '64 Black Panel AMP OUT EQ controls



**AMP OUT EQ CONTROLS:** The post-drive AMP OUT EQ ensures compatibility with a wide range of amps and cabs. When using the DI OUT in conjunction with the AMP OUT, the AMP OUT EQ can help your on-stage amp sound like your DI signal. When using the BASSRIG '64 Black Panel more like a traditional overdrive pedal, these controls can help balance the BASSRIG's tone with the clean settings on your amp.

**HORN CUT switch:** This switch engages a choice of low-pass filters for use with tweeter-equipped cabs. This allows a modern, full-range cab to sound much more like a vintage cab and prevents the “fizzy” parts of an overdriven sound from reaching the tweeter. This is useful if you have a cab where you can't turn the tweeter off, or when you want to toggle between a hi-fi clean tone and a vintage overdrive sound.

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.

See Page 16 for AMP OUT EQ frequency response.

## BASSRIG '64 Black Panel AMP OUT EQ controls (continued)

### Setting your AMP OUT EQ:

Use the tables below to help you set up the BASSRIG '64 Black Panel for the first time with your rig. Working through the steps below allows you to “set-and-forget” the AMP OUT EQ controls and focus on dialling in your ideal tone with the main controls.

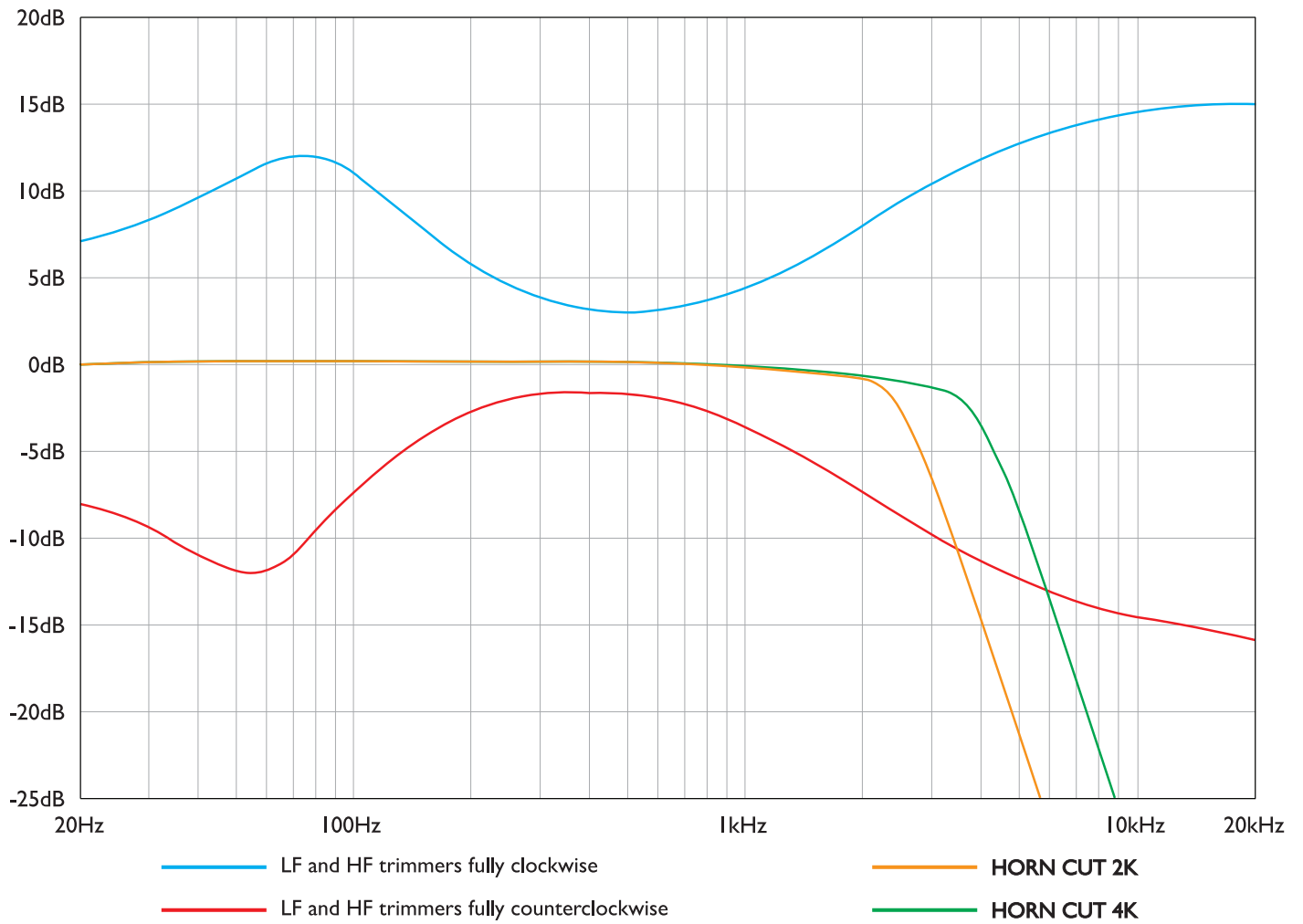
Step 1: Set HORN CUT for the connected amp or device

Amplifier or Connected Device	HORN CUT Switch Position
Amplifier and tweeter-equipped cab	2K or 4K, depending on cab crossover frequency
Amplifier and non-tweeter-equipped 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?	LF/HF Control Position
I used the HORN CUT and my tone is still too 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!

# BASSRIG '64 Black Panel AMP OUT EQ Frequency Response



## 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 $\Omega$
AMP OUT impedance	500 $\Omega$
DI OUT impedance	1k $\Omega$
Current draw	150mA
Power supply requirements	9VDC 2.1mm centre negative connector

## Appendix C: Connector Pin Out

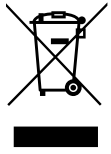
DI OUT male XLR:

Pin	Description
Pin 1	Ground
Pin 2	Positive
Pin 3	Negative

Instrument & Amplifier 1/4" TS Sockets:

Pin	Description
Tip	Signal
Sleeve	Ground

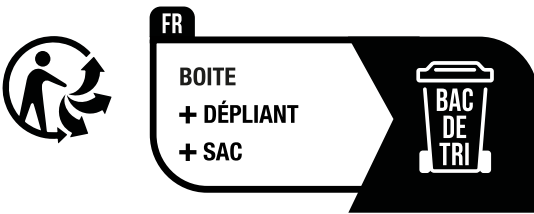
## Appendix D: Environmental Information



The crossed out wheely 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.



The packing materials for this product are recyclable. Do not dispose of these materials with your normal household waste. Please refer to the symbols on the packaging for recycling information. Contact your local authority for further guidance on recycle in your region.



Points de collecte sur [www.quefairedemesdechets.fr](http://www.quefairedemesdechets.fr)  
Privilégiez la réparation ou le don de votre appareil !

Scatola	Volantino	Borsa
PAP20	PAP22	LDPE4
Raccolta Carta	Raccolta Carta	Raccolta Plastica

Controlla le linee guida locali per la raccolta

<b>CARTÃO</b> Esvaziar Espalmar	<b>PAPEL</b> Separar	<b>PLÁSTICO</b> Esvaziar
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## Appendix E: Directives & Regulations



This product complies with Electromagnetic Compatibility (EMC) directive 2014/30/EU.



Origin Effects Ltd has conformed where applicable to European Union's Directive 2011/65/EU on Restrictions of Hazardous Substances (RoHS) as well as the following sections of California law which refer to RoHS, namely sections 25214.10, 25214.10.2, and 58012, Health and Safety Code; Section 42475.2, Public Resources Code.



This equipment has been tested and found to comply with the limits for a Class B 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 F: Warranty

At Origin Effects we want you to have a long and happy relationship with your pedal, so we offer a comprehensive 2-year warranty from the date of purchase. You can extend this warranty to 4 years by registering your product at <https://origineffects.com/register/>

Please note the warranty is not transferable and only valid for the original owner. Returns or servicing should be arranged through the store you purchased the product from. Proof of original ownership may be required in the form of a purchase receipt.

For full warranty details visit [www.origineffects.com/warranty](http://www.origineffects.com/warranty).