

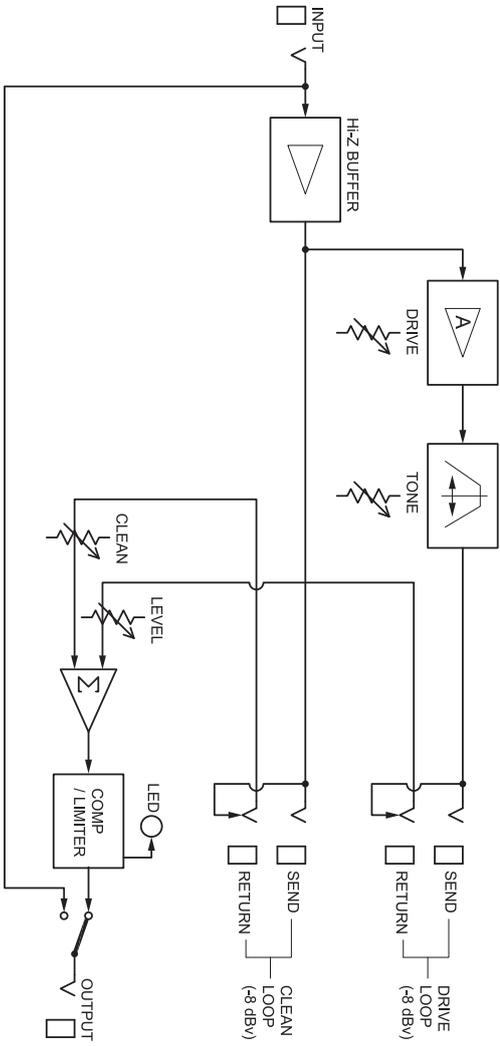
USERS MANUAL

BILLY SHEEHAN SIGNATURE DRIVE



EBS PROFESSIONAL BASS EQUIPMENT

BLOCK DIAGRAM

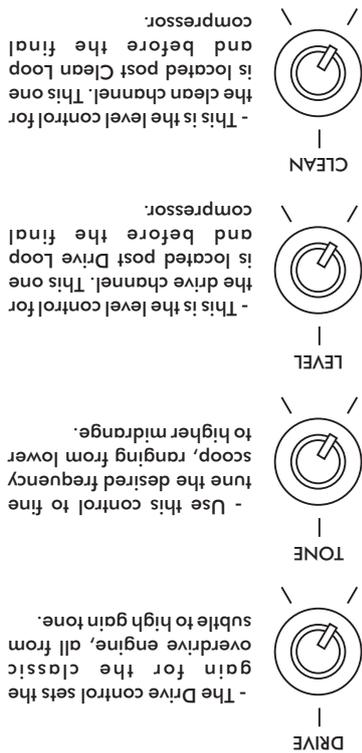


Thank you for purchasing the Billy Sheehan Signature Drive!

This pedal is a distillation of several important principles in the signal chain for bass. Distorting a bass is always tricky. You can easily lose note to note differentiation, as well as low frequencies. My solution for many decades has been to run two signals, distort one, and re-combine (mix) after. We managed to get this capability into a pedal with EBS. It does all that, plus allows an unlimited possibility for pre-post mix tone shaping by including a loop for each signal path. The user can insert anything they wish within the loop for unique and personally stylized tonality. The pedal by itself sounds absolutely wonderful, but the feature of being modified by the user's choice of insert components makes it useful for anyone playing any style.

It works perfectly.

THE CONTROLS



INDICATOR LED
Indicates when the pedal is active. When the compression option is on, this LED glowing you should replace the battery or check your power supply.

FOOT SWITCH
Switches the pedal on or off.

COMP
HIGH - Maximum compression is achieved with a makeup gain of 6 dB.
MID - This is the user mode compression setting determined by the setting of the Comp trimmer inside (see advanced options). A makeup gain of 3 dB is added in this mode.
OFF - Compression is disabled.

- This switch controls the operation of the compressor, placed after the loops and the channels mix point.

HOW TO CHANGE BATTERY

- 1) Carefully remove the four screws holding the bottom plate.
- 2) Remove the bottom plate gently.
- 3) Replace the old battery with a new one of the same type, 9V alkaline type; 6LR61.
- 4) Gently place back the bottom plate, and make sure no cables are squeezed. Attach the four mounting screws using moderate tension.

MY NOTES:

TROUBLE SHOOTING GUIDE

Please consult the following checkpoints, before consulting one of the authorized EBS service centers.

Checkpoint	Action if answered NO
1) Does the cable(s) work properly?	- Replace cable(s).
2) Are the 1/4" plugs properly connected all the way in?	- Push the 1/4" plugs all the way in.
3) Are the Instrument cable(s) attached to the Right (input) jack, and the Amp cable(s) connected to the Left (output) jack?	- Reconnect input and output jacks.
4) Does the pedal have a battery, and is the battery OK?	- Put a new battery in the pedal.
5) Does the indicator LED light when pressing the foot switch alternatively?	- Replace battery.
6) Does the instrument work?	- Check the instrument at your nearest service center.
7) Does the amplifier work and is the volume turned up?	- Turn up volume or check the amp at your nearest service center.
8) If you are using a DC adapter, Are you using an EBS AD-9?	- Check the voltage and polarity of the adapter you are using.*

**EBS Sweden AB guarantees no error free operation when using other DC power supply than the EBS AD-9. Warranty is void if over-voltage has been applied to the pedal.*

USING THE LOOPS

The Billy Sheehan Signature Drive pedal gives you the option of using additional effects or units for the two channels independently before the final mix level setting on the pedal.

When using the loops, use an insert cable of a standard TRS type, where the RING is the SEND signal, and the TIP is the RETURN signal back to the pedal.

Note: You may also connect a mono plug directly into the insert jacks without damaging the send output. This gives you the option of mixing different sources without necessarily using the send signal.

ADVANCED OPTIONS

By removing the bottom plate you get access to fine tune the settings for the compressor in the Billy Sheehan Signature Drive pedal.

THR. (trimmer) - This control sets the threshold level for the compressor. By turning this trimmer clockwise the threshold level will be lower, i.e. the compressor will react at lower levels.

COMP (trimmer) - This control sets the amount of compression when the compression mode switch is in the MID position.

NOTE: The factory setting for these trimmers is CENTER position.

TECHNICAL SPECIFICATIONS

Nominal Input Level		-8 dBv
Input Impedance		700 kohms
Gain Range	Drive	20 - 40 dB
Tone Filter:	Range	175 - 4500 Hz
	Q	0.6
Nominal Loop Level		-8 dBv
Output Impedance	Loops	2 kohms
Input Impedance	Loops	47 kohms
Mix Level	Drive channel	+3 dB max
	Clean channel	+6 dB max
Compressor:	Ratio	5:1 (max)
	Threshold	-25 +6dB
	Attack time (80%)	<10 ms
	Release time (80%)	100 ms typ
	Makeup gain	0, +3, +6 dB
Output Impedance		<100 ohms
Power Requirements*		9-12 V DC Regulated, 15 mA max.
Dimensions	Width	3.5" (90 mm)
	Height	4.5" (115 mm)
	Depth	1.4" (35 mm)
Weight		480g (1.07 lb.)

Specifications are subject to change without notice.

**EBS recommends the use of the EBS AD-9+ DC adapter, which supplies a well stabilized power to the EBS Billy Sheehan Signature Drive and all your other pedals that operate with a 9V battery.*

EBS SIGNATURE SERIES

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If you are not 100% sure on how to do this, please consult your nearest service center. Excessive force may result in damage to the unit, and the warranty in that case will be void.