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> [EBS Billy Sheehan Ultimate Signature Drive Pedal Instruction Manual](#)

EBS BSU

EBS Billy Sheehan Ultimate Signature Drive Pedal Instruction Manual

Model: BSU

1. INTRODUCTION

The EBS Billy Sheehan Ultimate Signature Drive Pedal is a versatile bass effects unit designed to provide a wide range of tonal options, combining compression, distortion, and clean signal blending. This pedal allows bassists to achieve a powerful and articulate sound, maintaining low-end clarity while adding harmonic richness and sustain. It features dual channels, each with its own effects loop, offering extensive sound-shaping capabilities.

2. KEY FEATURES

- Dual channels: Dedicated Clean and Drive channels for flexible sound mixing.
- Separate Effects Loops: Independent send/return jacks for external effects on both Clean and Drive signals.
- Hi/Lo Frequency Range Switch: Expands the tonal range of the Drive channel's Tone control.
- Adjustable Compression: Three compression modes (Off, Mid, High) to control dynamics and sustain.
- Phase Inversion Switch: Corrects potential phase issues between the Clean and Drive signals.
- Boost Function: Provides an additional volume boost for solos or emphasis.

3. CONTROLS AND CONNECTIONS

The EBS Billy Sheehan Ultimate Signature Drive Pedal features a user-friendly layout with clearly labeled controls and connections. Refer to the image below for a visual guide to the pedal's components.



This image displays the top panel of the EBS Billy Sheehan Ultimate Signature Drive Pedal. Visible controls include the TONE, DRIVE, LEVEL, and CLEAN knobs, along with the FREQ (HI/LO), PHASE (INV/NORM), and COMP (OFF/MID/HIGH) toggle switches. The BOOST and ACTIVE footswitches are located at the bottom. Input and output jacks, as well as the DRIVE LOOP and CLEAN LOOP send/return jacks, are visible on the sides of the pedal.

3.1 Front Panel Controls

- **TONE Knob:** Adjusts the high-frequency content of the Drive channel. Turning it clockwise increases treble, while counter-clockwise reduces it.
- **DRIVE Knob:** Controls the amount of gain and distortion applied to the Drive channel. Higher settings result in more aggressive overdrive.
- **FREQ Switch (HI/LO):** Selects the frequency range for the TONE control. 'HI' shifts the tone control to affect higher frequencies, while 'LO' focuses on lower-mid frequencies.
- **PHASE Switch (INV/NORM):** Inverts the phase of the Drive channel. Use 'INV' if you experience phase cancellation when blending the Drive and Clean signals. 'NORM' is the standard setting.
- **COMP Switch (OFF/MID/HIGH):** Selects the compression level for the entire signal. 'OFF' bypasses compression, 'MID' provides moderate compression, and 'HIGH' offers stronger compression for increased sustain and dynamic control.
- **CLEAN Knob:** Adjusts the output level of the clean, un-effected signal.
- **LEVEL Knob:** Controls the overall output volume of the pedal.
- **BOOST Footswitch:** Engages or disengages the built-in volume boost function.
- **ACTIVE Footswitch:** Toggles the pedal effect on or off. When off, the pedal is in true bypass mode.

3.2 Side Panel Connections

- **INPUT Jack:** Connect your bass guitar or the output of a preceding pedal.
- **OUTPUT Jack:** Connect to your bass amplifier or the input of the next pedal in your signal chain.
- **DRIVE LOOP (SEND/RETURN Jacks):** Connect external effects pedals that you wish to apply specifically to

the distorted signal.

- **CLEAN LOOP (SEND/RETURN Jacks):** Connect external effects pedals that you wish to apply specifically to the clean signal.
- **DC IN Jack:** Connect a regulated 9V DC power supply (center negative).

4. SETUP

Follow these steps to set up your EBS Billy Sheehan Ultimate Signature Drive Pedal:

1. **Power Connection:** Connect a regulated 9V DC (center negative) power supply to the DC IN jack. Ensure the power supply meets the pedal's specifications to prevent damage.
2. **Signal Chain:** Connect your bass guitar to the INPUT jack. Connect the OUTPUT jack to your amplifier's input or the next pedal in your signal chain.
3. **Effects Loops (Optional):** If using external effects for specific channels, connect them as follows:
 - For Drive channel effects: Connect the DRIVE LOOP SEND to the input of your external effect, and the output of the external effect to the DRIVE LOOP RETURN.
 - For Clean channel effects: Connect the CLEAN LOOP SEND to the input of your external effect, and the output of the external effect to the CLEAN LOOP RETURN.
4. **Initial Settings:** Before powering on your amplifier, set the LEVEL, CLEAN, and DRIVE knobs to their minimum positions. Set the TONE knob to the center (12 o'clock) position. Set the COMP switch to 'OFF' and the FREQ and PHASE switches to 'NORM'.

5. OPERATION

Once connected, you can begin exploring the pedal's capabilities:

5.1 Blending Clean and Drive

- Engage the pedal using the ACTIVE footswitch.
- Gradually increase the DRIVE knob to introduce distortion.
- Adjust the CLEAN knob to blend the clean signal with the distorted signal. This allows you to retain your bass's fundamental tone and low-end while adding grit.
- Use the LEVEL knob to set the overall output volume to match your bypassed signal or to provide a slight boost.

5.2 Using the Compression

- With the pedal active, experiment with the COMP switch settings (OFF, MID, HIGH).
- 'MID' compression offers a subtle evening out of dynamics and increased sustain.
- 'HIGH' compression provides a more pronounced effect, ideal for slap bass or when a very consistent dynamic response is desired.

5.3 Tone Shaping with FREQ Switch

- The FREQ switch significantly alters the character of the TONE knob.
- In 'HI' mode, the TONE knob affects brighter frequencies, allowing for sharper, more cutting drive tones.
- In 'LO' mode, the TONE knob influences lower-mid frequencies, providing a warmer, thicker drive sound.

5.4 Effects Loops

- The independent effects loops allow for creative signal routing. For example, you can place an EQ or chorus

pedal in the CLEAN LOOP to modify your clean tone without affecting the drive.

- Similarly, a fuzz or octave pedal can be placed in the DRIVE LOOP to further sculpt your distorted sound.

5.5 Boost Function

- Press the BOOST footswitch to activate a pre-set volume boost. This is useful for increasing your presence during solos or specific song sections.

6. MAINTENANCE

To ensure the longevity and optimal performance of your pedal:

- **Cleaning:** Wipe the pedal with a soft, dry cloth. Avoid using abrasive cleaners or solvents.
- **Power Supply:** Always use a regulated 9V DC (center negative) power supply. Incorrect power can damage the unit.
- **Storage:** Store the pedal in a dry environment, away from extreme temperatures and direct sunlight. Disconnect power when not in use for extended periods.
- **Connections:** Ensure all cables are securely connected. Loose connections can cause signal loss or noise.

7. TROUBLESHOOTING

If you encounter issues with your pedal, try the following:

- **No Sound:**
 - Check all cable connections (input, output, power).
 - Ensure the power supply is working and correctly connected.
 - Verify your instrument and amplifier are functioning correctly.
 - Ensure the ACTIVE footswitch is engaged.
- **Weak or Distorted Sound (unintended):**
 - Check the DRIVE and LEVEL knob settings.
 - If using effects loops, temporarily bypass external pedals to isolate the issue.
 - Ensure the PHASE switch is set to 'NORM' unless phase inversion is intentionally desired.
- **Unwanted Noise/Hum:**
 - Ensure you are using a high-quality, regulated power supply.
 - Check for faulty cables.
 - Move the pedal away from power transformers or other sources of electromagnetic interference.

8. SPECIFICATIONS

- **Model:** BSU
- **Item Weight:** 1 pound (approximately 0.45 kg)
- **Product Dimensions:** 10 x 7 x 6 inches (approximately 25.4 x 17.8 x 15.2 cm)
- **Power Source:** Corded Electric (9V DC, center negative, regulated)
- **Signal Format:** Analog
- **Hardware Interface:** 1/4-inch Audio Jacks

9. WARRANTY AND SUPPORT

EBS products are manufactured to high standards. For information regarding warranty coverage, service, or technical support, please refer to the warranty card included with your product or visit the official EBS website. Contact details for customer support can typically be found on the manufacturer's website.