

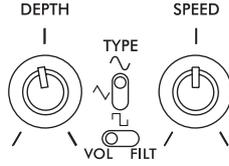
# SAMPLE SOUND SETTINGS

The following examples below show a few of the many sonic possibilities of the EBS TremoLo.

## CLASSIC TREMOLO

The classic tremolo sound is achieved with the mode switch set to sine wave modulation and the Type selector to sine wave modulation.

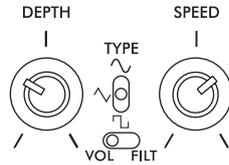
Typically, use moderate setting for both Depth and Speed. You may also try the square wave type.



## DAZZLING TREMOLO

By using the triangle/sawtooth modulation you may achieve very radical effects. In a stereo setup this setup will create a dazzling tremolo effect.

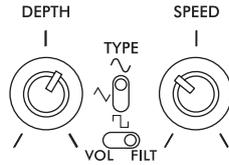
Use lower modulation depth and slightly higher speed settings.



## TYPICAL FILTER TREMOLO

This mode will allow you to maintain the low end of your sound while having a classic tremolo effect in the higher frequency. In a stereo setup this effect is similar to a chorus effect, but without the pitch shift.

Use high depth and adjust the speed to your personal choice.



## MY FAVORITE SETTING

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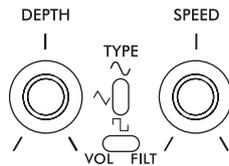
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# USERS MANUAL

## BLACK LABEL SERIES

### EBS TREMOLO



EBS PROFESSIONAL BASS EQUIPMENT

performance. Switches the pedal on or off. This switch is a TRUE BYPASS SWITCH for optimum

### FOOT SWITCH

Indicates dynamically the speed of the tremolo, controlled by the speed knob. This LED should glow when the pedal is switched on. When this LED stops lighting you should replace the battery as soon as possible.

### INDICATOR LED

**FILT** - The Filter position set the pedal into a sliding low pass filter operation. This position maintains the low end of the signal and is more subtle than amplitude modulation.

**VOL** - The Volume position sets the pedal into pure amplitude modulation. This position gives classic tremolo effects.

The MODE switch selects the overall operation of the pedal:

**TYPE** - This switch selects the type of the modulation waveform that is used. Sine, triangle/sawtooth or square waveforms can be selected.

- Sets the amount, or the modulation depth, of the tremolo effect. When this control is in minimum position the Speed control has no effect.

- Controls the speed of the tremolo effect. Use this control in combination with the Depth control to fine-tune your personal sound.



## THE CONTROLS



We hope you'll enjoy using the EBS Tremolo pedal.

your instruments.

EBS Tremolo is a high performance, analog tremolo pedal with a choice between amplitude or filter modulation operating in mono or stereo with auto-panning. Three different modulation waveforms makes the Tremolo a very versatile effect for all

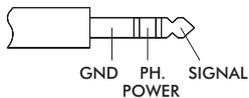
Thank you for purchasing the EBS Black Label Tremolo pedal!

# 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.

# HOW TO USE THE EBS PHANTOM POWER™

The EBS Phantom Power System™ makes it possible to power the EBS Tremolo with 9V DC directly from the EBS Drome, Gorm, Fafner and HD/TD amps. Here is a step-by-step instruction on how to do this.



- 1) Connect a stereo 1/4" instrument cable (TRS, tip-ring-sleeve) between the EBS Tremolo pedal and the EBS amp.
- 2) Activate the phantom power on the amp. This is made with a flick of a switch on most EBS amps. Please consult the manual for the EBS amp you are using.
- 3) Connection done. You should now have power in the pedal, even if the input jack is left open.

## EBS PHANTOM POWER™ TROUBLE SHOOTING

Checkpoint	Action if answered NO
1) Is a 1/4" STEREO cable used between the pedal and the amp?	- Replace cable to a 1/4" STEREO cable.
2) Is there power available on the RING connection of the 1/4" plug?	- Make sure the phantom power is activated on the amp. - Check cable.

Note that only the pedal that is directly connected to the EBS amp can be powered with phantom power. This means that if you have more than one pedal, ONLY THE LAST one can use the EBS Phantom Power™.

# ADVANCED TECHNICAL OPTIONS (ONLY FOR AUTHORIZED PERSONNEL)

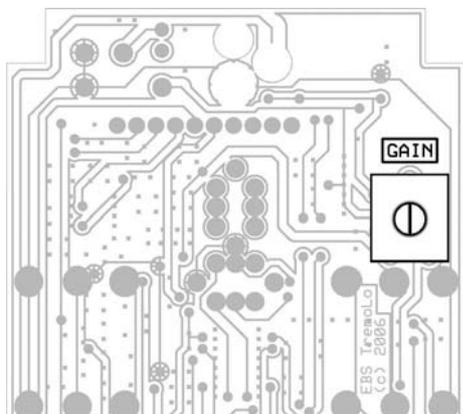
## ADJUSTING GAIN LEVELS IN AMPLITUDE MODE

The EBS Tremolo has the feature of fine-tuning the output levels from the amplitude modulation section. The factory setting is adjusted so that a 6 dB gain is achieved with sine waveform type and maximum effect depth.

To **increase** the gain turn the trimmer **counter clockwise** and to decrease the gain turn the trimmer clockwise. In maximum position the tremolo will not have any gain.

The trimmer is located on the printed circuit board, and is easily accessible by removing the bottom plate. When doing any adjustments, please use a plastic screwdriver, and turn the trimmer gently.

UP



DOWN

**! 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.**

# 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 attached to the Right (input) jack, and the Amp cable 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 adapter than the EBS AD-9. Warranty is void if higher voltage than 9.3 V has been used to feed the EBS Tremolo pedal.

## TECHNICAL SPECIFICATIONS EBS TREMOLO

Nominal Input Level	-8 dBV
Input Impedance	1 Mohms stereo 500 kohms mono
Output Impedance	100 ohms
Bandwidth	+0/-3 dB 20 - 20k Hz
Bypass Bandwidth	+0/-3 dB TRUE BYPASS
Modulation	Amplitude or Low Pass Filter
Modulation Range	max -30 dB - +6 dB (vol) max 200 Hz - 10 kHz (filt)
LFO Range	0.2 Hz - 15 Hz
LFO Type	Sine/Square/Sawtooth
Power Requirements	9 V DC Regulated, 20 mA max.
Dimensions	Width 2.8" (70 mm) Height 4.5" (115 mm) Depth 1.4" (35 mm)
Weight	450g (1 lb.)

\*EBS recommends the use of the EBS AD-9 DC adapter, which supplies a well stabilized power to the EBS Tremolo and all your other pedals that operate with a 9V battery. The high current capacity, 650mA, makes it possible to supply all pedals with only one adapter, EBS AD-9!



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