

TREMO BOOST

Operating Instructions

Lock  Rock™

Street Smart Guitar Effects

By Brannon Electronics, Inc.

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Connections

Input - Instrument connection, input to the Tremo Boost
Output - Output to Amplifier (or other pedals)
Power - External power connection 9 to 12VDC , negative center
(protected from reverse polarity).
Internal 9 volt battery may be used in lieu of external power source.

Settings and Indications

UNITY - Green LED - no effect (unity gain/bypass mode)
LEVEL I - Blue Green LED - 1st boost setting
LEVEL II - Blue LED - 2nd boost setting
LEVEL III - Yellow LED - 3rd boost setting
LEVEL IV - Amber LED - 4th boost setting
LEVEL V - Red LED - 5th boost setting
TREMLOLO - Red LED - boost or tremolo setting

Green LED (UNITY) flashes for ½ second each 5 seconds
indicates Low Power Mode. (this mode of operation lowers
the power consumption and extends battery life).

RED LED (TREMLOLO) flashes at the speed (frequency) of the
tremolo.

RED LED (TREMLOLO) on SOLID indicates a 11 db boost.

Note: Low Power Mode is always entered on power up.

Any LED flashing two times per second indicates a Low battery.

Any LED flashing four times per second indicates a Low Low battery.
(TREMLOLO LED excluded)

Note: *During Low battery, the flashing LED will be the LED of the
current Boost level selection.*

Key Features

Five Boost Settings
12 Tremolo Speed settings
6 Tremolo Depth settings
Boost setting added to Tremolo setting*
Stomp Switch Control (no POT's to adjust)*
Different Color LED's for each Boost setting*
Different Color LED's for each Depth setting*
LED flashes at Tremolo Speed*
Bypass Mode
Semi Mute Mode*
Internal Battery or External Powered
Low Battery Detection*
Low Low Battery Detection*
Low Power Consumption Mode*
Locks together with other Lock and Rock pedals*

Operating Instructions

The Tremo Boost provides you five levels of Boost plus a UNITY setting (bypass), as well as many different Tremolo settings. (Also, you can combine Boost and Tremolo) You get a repeatable setting each and every time. No Pots to adjust, let your foot control the boost levels or tremolo settings. The color coded LEDs give you positive indication of the level currently selected.

*Simple Operation: **Stomp switch to change settings.**
Switches are operate on release.*

*These are Street Smart Features

Boost Control

To change the Boost level just simply press the LEFT or RIGHT stomp switch. Each time the RIGHT switch is pressed the pedal will increase to the next Boost level. If at Boost Level V and the Right switch is pressed the Boost level will cycle to UNITY. Each time the LEFT switch is pressed the pedal will decrease down a Boost level. If at Boost Level UNITY and the Left switch is pressed the Boost Level will cycle to Level V. So, when at UNITY pressing the left switch will take you directly to maximum (LEVEL V) Boost, and then the Right switch can be used to take you back to UNITY.

Note: If the Tremo Boost is in the low Power Mode the first stomp will set the pedal to UNITY level.

Semi-mute mode (not available in Tremolo mode, only while in Boost)

- 1. An alternate way to enter Low Power Standby Mode is simply to hold down the Right stomp switch for 3 or more seconds and then when the stomp switch is released the Low Power Mode is entered. This is typically used when going on breaks or as a way to go to UNITY setting at anytime without cycling through the different levels.*
- 2. An alternate way to enter Low Power Standby Mode with a 28db mute is simply to hold down the LEFT stomp switch for 3 or more seconds and then when the stomp switch is released the Low Power Semi-Mute Mode is entered. This is typically used when going on breaks, to stop feedback, or quieten your instrument for tuning.*

Left Switch - Semi-mute Right Switch - UNITY (bypass)

Tremolo Control

The TOP switch turns the TREMOLO on and off. Each time the TOP switch is pressed the Tremolo will toggle. When in the tremolo mode the TREMOLO LED will flash at the speed setting (1 to 12 times per second). The tremolo will automatically add in the current Boost setting, so there will not be any change in volume level when switching in/out of the tremolo mode. When changing to/from tremolo the previous setting will be remembered. This means that you will return back to the same Boost setting or back to the last used Tremolo Speed and Depth settings. When in the Tremolo mode the RIGHT and LEFT switches become SPEED or DEPTH controls. While in Tremolo mode pressing the Right switch increases the Speed/Depth, and pressing the Left switch decreases the Speed/Depth setting. The speed setting cycles from one to twelve hertz and repeats. The Tremolo LED (at top) flashes at the speed selected. The depth setting cycles through 6 different settings, and repeats. The UNITY, LEVEL I to V LEDs indicate the depth setting. Note that after power up, the first Tremolo setting has been set to a typical setting. You may change this to your preferred setting. Once you change the setting (using the Left and Right switches) this will be the setting that you toggle back and forth to, either until you change it again or repower the pedal. Notice that you will need to be at your intended Boost setting prior to going to Tremolo, because while in tremolo the switches are for Tremolo controls and *NOT* Boost control. But, then it is simple to Stomp the TOP switch, change to Boost control, add in a Boost and go back to Tremolo.

NOTE: If the internal DIP switch 1 is ON, the TOP switch toggles a 11db Boost ON/OFF as opposed as controlling Tremolo. (see optional operational modes, and Quick Set Option)

Left Switch - Depth

Right Switch - Speed

Optional Operational Modes

Alternate operational modes may be selected by setting the internal DIP switches. To access the DIP switches, open the pedal as if you were going to change the battery. You will see the DIP switch on the lower center of the printed circuit board.

Normal operation is selected by switches being set to the open (off) position (factory default).

Switch 1 closed (on) **Quick Boost** instead of tremolo. In this mode the TOP switch controls a Boost and not Tremolo. The boost setting is either on or off and is approximately 11 db. This boost setting is in addition to the other boost setting that is selected. The Tremolo Boost becomes a Boost only pedal (tremolo is not available). When using this mode the Tremolo LED comes on solid instead of flashing.

Switch 2 closed (on) **Smooth High Tremolo** The Level V Tremolo Depth setting changes to a smoother setting. Normally the Level V (highest) Depth is a little choppy, setting this switch smoothes the highest Depth setting. All other Depth settings remain the same.

Switch 3 not used

Note: only one switch settings may be set, if both are on the result will be the same as both switches are set off. To quickly override a DIP switch setting of the pedal, see Quick Set Option

You will quickly realize that the **changes are made when the switch is released** (not when it is pressed down). You will also notice that the switch has a different feel than the normal snap type stomp switches.

Plug in and enjoy the Tremo Boost! *Many musicians prefer to keep the pedal at boost Level I at all times, to get that Sweet Boost Tone.*

Depth/Speed Select

Holding down the Left (DEPTH) switch for two or more seconds selects Depth Control, while holding down the Right (SPEED) switch for two or more seconds selects Speed (frequency) Control.

After you select the type of control you are doing, the Left and Right switches control the setting. If you are in the Tremolo mode (by pressing the TOP switch), the top (red LED) flashes at the speed you select. If you are in the Tremolo mode, the UNITY and LEVEL I to V LED's will indicate the Depth Setting. *The different color LED's gives you an indication of your Depth setting, while the flash rate of the TOP LED gives you an indication of your speed setting.* If not in the Tremolo mode (top LED off) you are controlling the Boost Level. If you make any changes to either the Depth or Speed they will remain in effect next time you select Tremolo by pressing the TOP switch. When toggling the Tremo Boost ON/OFF the last selected SPEED and DEPTH settings are used, but the current Boost setting is used.

HOLD DEPTH SWITCH DOWN TWO OR MORE SECONDS THEN THE SWITCHES ARE CONTROLLING DEPTH.

HOLD SPEED SWITCH DOWN TWO OR MORE SECONDS THEN THE SWITCHES ARE CONTROLLING SPEED (FREQUENCY)

Speed Control

To change the Speed (frequency) just simply press and hold the RIGHT stomp switch for 2 seconds while in the Tremolo Mode - this selects Speed Control. Each time the RIGHT switch is pressed the pedal will increase to the next Speed level. If at Maximum Speed and the Right Switch is pressed the Speed level will cycle to the slowest Speed. Each time the LEFT switch is pressed the pedal will decrease in Speed. If at the Slowest speed and the Left switch is pressed the Speed will cycle to the fastest speed. Pressing the TOP switch Toggles the pedal between Boost Control and Tremolo. The Boost level will always be added to the Tremolo.

There are Twelve Speed settings. The Top RED LED indicates the Speed setting by the flash rate.

Depth Control

To change the Depth (variation level) just simply press and hold the LEFT stomp switch for 2 seconds while in the Tremolo Mode - this selects Depth Control. Each time the RIGHT switch is pressed the pedal will increase to the next Depth level. If at Maximum Depth and the Right switch is pressed the Depth level will cycle to the lowest Depth. Each time the LEFT switch is pressed the pedal will decrease in Depth. If at the lowest Depth and the Left switch is pressed the Depth will cycle to the highest Depth.

There are Six Depth settings. LED's Unity, Level I to V indicates the Depth setting.

Left Switch – decrease **Right** Switch – Increase

SAVING PREFERED SETTINGS

It is possible to save your preferred (typical) Tremolo Speed and Depth setting!

Holding down the TOP Switch (TREMOLLO) for 3 or more seconds saves the current Speed and Depth settings as a power up default. This will be the default DEPTH and SPEED setting the Tremo Boost will first select after powering up the pedal. The Boost Level will not be saved.

This does not change normal operations. You may change you default as often as you like.

To save a preferred Tremolo setting:

1. You must be in the Tremolo mode of operation
2. Select your Depth and Speed setting
3. Hold down the TOP Switch for three or more seconds.
4. Your setting are now Saved

To verify:

Power pedal off, wait a couple of seconds, repower the TremoBoost and check that your setting is saved.

RESTORE DEFAULT SETTINGS

Hold the TOP switch down for approximately one second when powering up the pedal will restore the factory default setting of Speed and Depth.

NOTE:

Holding down the LEFT switch (DEPTH) for 2 or more seconds puts the pedal into the control DEPTH mode, only while in Tremolo mode.

Holding down the RIGHT switch (SPEED) for 2 or more seconds puts the pedal into the control SPEED mode, only while in Tremolo mode.

When changing from Boost to Tremolo mode of operation, the last setting of Speed/Depth control mode will still be in effect. This allows you to change between Boost and Tremolo and always return to you previous setting.

When changing from Boost to Tremolo mode of operation, the current Boost level setting will be added to the Tremolo setting to prevent any drop in volume.

Speed Control Mode is selected when the pedal is put in the Tremolo mode after being powered on.

Contact us if you need to have addition settings or changes to your pedal. We do customize Pedal operation and settings. We welcome comments and opinions that you think will improve our pedals.

Quick Set Option

Holding down the left or right stomp switch while plugging in an instrument (or power up from external power) will allow different operation during this use. The pedal senses the stomp switch as being held down while being powered up and causes the pedal to operate as if DIP switches 1 or 2 are selected in the opposite setting. Holding down the Right Switch selects opposite of DIP switch 1 setting. Holding down the LEFT Switch selects the opposite of DIP switch 2 setting. Repowering the pedal without holding down the stomp switch will cause operation to continue based on DIP switch settings. This is intended as a quick way to go back to default operation without having to open the pedal, or as a way to quickly set the stomp switch to operate in a different manner. Notice that if you hold down the stomp switch while powering up the pedal, the UNITY and LEVEL II or III LED's will lite until the stomp switch is released. This is to indicate that a override of the DIP switch setting is taking place. When the stomp switch is released the pedal will continue to power up into the Low Power Mode.

Low Power Mode

1. When the pedal is powered up (by plugging in an instrument while on battery power or by connecting an external DC source) a Low Power Mode is entered. When in Low Power Mode the UNITY (Green) LED will flash for ½ second each 5 seconds and the pedal will be in a UNITY level. As soon as the Left or Right stomp switch is pushed and released, the pedal exits the Low Power State (STANDBY) and enters UNITY level, and the UNITY LED will be on solid. This mode is used to allow operation or standby with about a 50% reduction in power consumption. The Output and Tone are unaffected (in the low power mode). Same sound as Unity setting
2. An alternate way to enter Low Power Standby Mode is simply to hold down the Right stomp switch for 3 or more seconds while in the Boost mode and then when the stomp switch is released the Low Power Mode is entered.

Low Battery Detection

The pedal monitors the battery voltage level and notifies you when approximately 20 hours of battery life is left. A low battery is indicated by the Boost LED flashing at a rate of twice per second as opposed to being on solid. The active boost level LED will be the one that flashes. This low battery detection gives you advanced warning that you need to change the battery soon. This keeps you from having to change a battery at an inconvenient time. The battery is a standard 9V type. The pedal also senses a LOW LOW battery, this is when approximately 5 hours of battery life is left. This low low battery is indicated by the LED flashing at a faster rate of approximately 4 times per second. The amount of battery life left may vary somewhat based on the type of battery. Also, the pedal has been designed to consume the same amount of power at all settings (except standby). This relieves you of worry about how fast the battery is being drained while at different settings.

Low battery operation has no effect on the operation or tone of the Tremo Boost. After operation of a few hours in the Low Low battery mode you might start to hear some distortion. Low battery is not monitored during the Low Power or Tremolo Mode of operation.

When using a battery, the ¼" input jack functions as a power switch. When an instrument is plugged into the Input jack the unit will power up into the Low Power Mode. When the plug is removed the power will be turned off. (it may take a few seconds for the power to go off)

Anytime the external power is connected, the internal 9V battery will be disconnected, and the pedal is powered up. Plugging or unplugging the instrument will have no effect on the pedal and its operational mode. When using External Power it is not required that a battery be installed. As soon as you connect a 9 to 12 V DC power adapter, the pedal will power up. (Center pin of 2.1mm plug is V- or ground.)

Changing Battery

To change the battery, turn the Tremo Boost upside down and remove the four screws that hold the rubber feet. Lift and remove the bottom cover. You will see the battery retainer. Remove the old battery and replace with a fresh 9V battery. Replace the cover and reinstall the rubber feet and screws. Dispose of the old battery in a proper manner. The battery holder used is one for severe shock and vibration and requires a slight force to remove and install the battery.

Note: If the Tremo Boost is locked to other pedals, the locking bracket does not need to be removed to change the battery.

Locking to other pedals

Lock and Rock pedals have the ability to lock together and therefore possibly save the trouble of using a pedal board. The bottom of the pedal has four 6-32 screws that allow pedals to lock together, when using the SLIDE LOCK bracket. Supplied screws are 3/8 inch in length. Also, an optional T handle is available to allow easy and convenient carrying of the pedal. The T handle locks to the pedal by using the screws in the bottom of the pedal. (screws are provided with the slide lock or T handle brackets)

Cleaning

To clean the pedal wipe with a soft, dry cloth or a cloth that has been slightly dampened with water. If required, for better cleaning, use a mild, non-abrasive detergent. Never use abrasives or solvents for cleaning, to avoid the possibility of discoloration or scratches. The pedals are made of Aluminum for durability and strength and then powder coated.

Cautions

Protect the pedal from strong impacts. Do not allow objects or liquid to penetrate into the pedal. *Before connecting or disconnecting any cords it is always a good idea to set your volume controls to the minimum to help prevent any damage to system components.*

TREMOLO/BOOST PEDAL

Tremolo Speed.....one to twelve Hertz (one Hertz increments)
Tremolo Depth.....Six settings
 (highest depth setting has optional selection-smooth/harsh)
Boost.....Five preset Levels + Unity
LED's.....Seven for indications
Dimensions..... 5.75 W x 6.25 D x 2.25 H inches (approx.)
Weight..... 1 ¼ lbs (approx.)
Power Supply.... 2.1 mm jack, 9 to 12VDC, Center negative
Accessories..... Operation manual, Warranty registration card

Options..... Locking bracket

NOTE: Professional Musicians - Changes can be made to the product if required in order for the operation and level settings to better suit your needs. These changes can usually be made for a very small fee. Contact us for any special requirements you might have, or to discuss available options.

Note: The specifications, operation and/or appearance of the Tremo Boost are subject to change without prior notice, in the interest of product improvement.

For additional information contact:

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