

TIDAL WAVE

Operating Instructions

Lock  Rock™

Street Smart Guitar Effects

By Brannon Electronics, Inc.

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Connections

Input - Instrument connection, input to the Tidal Wave

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 - low depth setting

LEVEL I - Blue Green LED - 2nd depth setting

LEVEL II - Blue LED - 3rd depth setting

LEVEL III - Yellow LED - 4th depth setting

LEVEL IV - Amber LED - 5th depth setting

LEVEL V - Red LED - 5th depth setting w/ double speed

PHASE - Blue LED - speed setting while in Tidal mode

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).

Blue LED (PHASE) flashes at the speed (frequency) of the
tidal wave.

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.
(PHASE LED excluded)

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

Key Features

12 Speed settings(plus double speed)
5 Depth settings
Stomp Switch Control (no POT's to adjust)*
Different Color LED's for each Depth setting*
LED flashes at Speed
Bypass 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 Tidal Wave provides you five levels of Depth plus a double speed setting, Many different combinations to give you different sounds. You get a repeatable setting each and every time. No Pots to adjust, let your foot control the depth and speed 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**

Tidal Wave Control

The TOP switch turns the Tidal Wave on and off. Each time the TOP switch is pressed the Tidal Wave will toggle. When in the tidal wave mode the PHASE LED will flash at the speed setting (1 to 12 times per second). There will not be any change in volume level when switching in/out of the tidal wave mode. When changing to/from tidal wave the previous setting will be remembered. This means that you will return back to the same setting of Speed and Depth settings. When in the Tidal Wave mode the RIGHT and LEFT switches become SPEED and DEPTH controls. While in Tidal wave mode pressing the Right switch increases the Speed, and pressing the Left switch changes the Depth setting. The speed setting cycles from one to twelve hertz and repeats. The PHASE 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 Tidal Wave setting has been set to a typical setting. You will need to 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 the top setting of depth only doubles the speed from LEVEL IV (no depth change).

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

While in the Tidal Wave mode of operation the Top LED flashes at the SPEED.

Left Switch - Depth

Right Switch - Speed

Depth/Speed Indication

If the Tidal Wave mode is not selected the pedal is in the bypass mode the Right and Left switches can be used to indicate the Depth and Speed settings. While in the Bypass mode pressing the LEFT Switch will indicate the Depth setting. If the switch is pressed the Depth setting will be indicated on the LEDs for five seconds.

RED LED V.....Highest Depth setting with double speed
Amber LED IV Highest Depth setting
Yellow LED III Increased Depth
Blue LED IIIncreased Depth
Blue/Green LED IIncreased Depth
Green LED UNITYLowest setting

Pressing the RIGHT Switch will indicate the Speed setting. If the switch is pressed the Speed setting will be indicated on the LEDs for five seconds.

TOP LED + V.....twelve hertz
TOP LED + IV.....eleven hertz
TOP LED + III.....ten hertz
TOP LED + II.....nine hertz
TOP LED + I.....eight hertz
TOP LED + UNITY.....seven hertz
RED LED V six hertz
Amber LED IV five hertz
Yellow LED III four hertz
Blue LED IIthree hertz
Blue/Green LED Itwo hertz
Green LED UNITYone hertz

NOTE: after 5 seconds the speed/depth is no longer indicated and the UNITY LED will be on. Pressing the Left or Right Switch DOES NOT change setting while in Bypass mode, they are only indicated.

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 Depth LED flashing at a rate of twice per second as opposed to being on solid. The active depth 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 Tidal Wave. 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 Tidal Wave Mode of operation.

When using a battery, the 1/4" 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.)

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 $\frac{1}{2}$ 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 and the when the stomp switch is released the Low Power Mode is entered.

Changing Battery

To change the battery, turn the Tidal Wave 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 Tidal Wave 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.

TIDAL WAVE PEDAL

Speed.....one to twelve Hertz (one Hertz increments)
Depth.....Five settings (plus one double speed)
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, T handle

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 Tidal Wave are subject to change without prior notice, in the interest of product improvement.*

For warranty service contact dealer
or www.lockandrock.com

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For additional information contact:

www.lockandrock.com
www.brannonelectronics.com

Brannon Electronics, Inc.
Houston, Texas
Telephone 281-820-8929