

MINIWATT

Manual version 1.0



TONE - Works as a tilt EQ control. Turn it past noon to boost treble frequencies and cut bass frequencies. Turn it below noon to amplify bass and attenuate treble.

DRIVE - Sets the gain level of the preamp stage. Turn gain all the way down to only get tube gain. Turning it up will provide extra gain from the preamp settings. At higher settings, the LED's in the preamp circuit will start clipping, resulting in smooth distortion.

VOLUME - Sets the overall output volume of the pedal. With the gain all the way down, unity volume is achieved just past noon (depending on the setting on the internal tube gain trimpot)

MINIWATT

Miniwatt Tube Overdrive

Inspired by the Miniwatt tubes that were produced by Philips and used in radio's back in the days, the Iceberg Effects Miniwatt provides tube warmth and saturation in pedal form. The pedal combines the amp-like tube overdrive with a preamp circuit based on the DOD-250 overdrive pedal and a passive tilt EQ circuit that provides a wide range of useable tone settings. The Miniwatt provides everything from clean warm amp-like tones to saturated distortion.

Trimpots

The gain level of the 12AX7 tube that is installed on the pedal, is set by the internal gain trimpot. By default this trimpot is set to it's maximum (fully clockwise), such that even when the gain knob on the pedal is turned all the way down, you still get tube saturation when you play the strings of your guitar with more force. Turning the internal gain trimpot (the bottom trimpot of the 3 internal trimpots) counter clockwise will lower the tube gain level. This will also affect the overall volume level of the pedal, so adjust the volume knob settings on the pedal accordingly.

The Miniwatt pedal also has two internal trimpots to set the bias of the tube, one for each tube gain stage. These trimpots have been carefully set by us to give you what we think is the best sounding version of the pedal. Changing the trimpot settings will affect the tube gain and EQ (mainly lower-mid frequencies). In case you want to experiment with other tubes (like 12AU7 or 12AT7) you can use the trimpots to finetune the sounds you are getting from the pedal.

- Momentary hold function is now toggled. If it was ON (default) it will be set to OFF and vice versa
- The bypass status LED will indicate the Momentary hold function mode is OFF (blink once) or ON (blink twice)

Linking Pedals

The Iceberg Effects bypass system allows you to link the footswitches of multiple Iceberg Effects pedals together by using a 3.5mm audio cable. The pedals can be connected in 3 different modes.



In case you want to go back to the original trimpots, we have noted them down for your convenience. The indicated resistances are the trimpot resistances measured between the left and middle leg of the trimpot:

Bias trimpot 1 (upper trimpot)

position: middle
resistance: 5k Ohm

Bias trimpot 2 (middle trimpot)

position: roughly 7 o'clock
resistance: 1.2k Ohm

Momentary Hold

By default, when you hold one of the footswitches for more than half a second, it operates in momentary mode. When releasing the footswitch, it will go back to the state it had before holding the footswitch.

The momentary hold function can be disabled/enabled by following the steps:

- Hold the footswitch while powering up the pedal
- Hold the footswitch for more than two seconds, until the bypass status LED goes from fast to slow blinking
- Release the footswitch

- **One-at-a-time** - Enabling one effect automatically disables the other linked effect. Both effects can be off at the same time, but not on
- **Always-on** - Disabling one effect automatically enables the other linked effect. Both effects can be on at the same time, but not off
- **Toggle (default)** - Enabling one effect automatically toggles the state of the other linked effect.

To change the bypass mode for the bypass footswitch

- Hold the bypass footswitch while powering up the pedal. The white LED will blink rapidly
- Release the footswitch within 2 seconds
- The Bypass mode is now increased by one (if it was in One-at-a-time mode it is now in Always-on mode, etc.)
- The LED will indicate the selected bypass mode

BLINK ONCE = One-at-a-time Mode

BLINK TWICE = Always-on Mode

BLINK THREE TIMES = Toggle Mode (Default)

Every time the pedal is powered up, the bypass status LED will blink a number of times to indicate the bypass mode that is selected, as indicated above.