

S100 User Manual



Installation

Connect the 4-pin connector on the main cable to the header on the back of the S100 and the other end of the cable connects to the vehicle ECU wiring. Black is ground, red is power (+12v) and yellow is the tach signal. Please consult a vehicle wiring diagram for the specific wires to splice into.

IMPORTANT: The tach signal must be a clean digital signal. Otherwise the S100 may not track the engine RPM properly. In most cases, the ignition signal going from the ECU to the ignition module is the wire that you want to tap into. Please visit www.brockwayengineering.com/s100_install.html for tips on installing the S100 into various vehicles.

Setup

The S100 factory defaults are as follows.

Pulses/Rev: 2
RPM spacing: 400
Shift point: 6,500 rpm
LED brightness: full

Setup (continued)

To enter the initial setup mode, press and hold the SET button before applying power. The button can be released once the green status LED comes on. The green status LED will blink anytime the unit is in setup mode. The initial setup mode is for setting the Pulses/Rev and the RPM spacing. The first setting is for Pulses/Rev. The number of Pulses/Rev will show on the LED meter as the number of LED's that are illuminated. The choices are 0 - 6. Pressing the DIM/INC button will increment the number by 1. Pressing the DIM/INC button when 6 is being displayed will start back at 0. Most ignition systems are .5 Pulses/Rev per cylinder. So if you have a 4 cylinder engine, you would set the PPR to 2. A setting of 0 is for using the pulse from a single coil on an engine with a coil for each cylinder. After setting the Pulses/Rev, press the SET button once to advance to the RPM spacing setting. The RPM spacing is the RPM difference between each LED in the meter. The choices are 100 - 600. The RPM corresponds with the number of LED's illuminated on the LED meter. 1 LED = 100, 2 LED's = 200 and so on. Pressing the DIM/INC button will increment the number by 100. Pressing the SET button again will exit the initial setup mode and the unit will enter normal operating mode.

When in normal operating mode, the green status LED will remain on continuously. Pressing the SET button will enter the RPM setting mode. Again, the green status LED will blink. The first setting is the 1000's part of the RPM setting. Pressing the DIM/INC button will increment the setting by 1000. The number is displayed on the LED meter as the sum of 2 blinks. Each blink will be 0 - 6 LED's illuminated. 1 LED for each 1000. Thus, the maximum number is 12,000. Which would be all 6 LED's illuminated for each blink. After setting the 1000's, pressing the SET button again will advance to the 100's setting. Again, the LED's will blink according to the number of 100's. This time the number is 0 - 9. Pressing the DIM/INC button will increment the setting by 100. After setting the 100's, then press the SET button to exit the setup mode. The range for this setting is 5,000 rpm - 12,900 rpm.

When in normal operating mode, pressing the DIM/INC button will change the LED meter brightness. Immediately after changing, the meter will illuminate all LED's for 1 second so the user can verify what brightness is currently active. There are 3 settings: full bright, dimmed and off. When illumination is off, then the status LED will also be off.

Operation

The **Red** LED is the final LED in the sequence to illuminate. This is the RPM set point. If the RPM set point is 8,000 rpm and the RPM spacing is 400, then the following RPM values are when the LED's will illuminate: **6,000**, **6,400**, **6,800**, **7,200**, **7,600**, **8,000**.

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Limited 2 Year Warranty

Brockway Engineering, LLC hereby warrants that this product will be free of defects in materials and workmanship for a period of 2 years after date of purchase. At it's option, Brockway Engineering, LLC will repair or replace the defective product.