

Mini Dash Installation Guide

Description

The EFI Mini Dash is a programmable LED display with 5 shift lamps that interfaces with any of the R Series ECU's or Ignitions. The Mini Dash can also be used with 3rd party Ignitions or Magnetos and can interface with external pressure and temperature sensors. The enclosure is billet machined 6061 aluminum that is environmentally sealed and features a 6 pin DTM main connector.

Wiring

The mini dash is connected to the R1i Ignition System via a 3 pin DTM connector. This provides the power connection and the serial TXD data from the R1i Ignition.

- Pin 1 12 volts
- Pin 2 TXD (serial data)
- Pin 3 GND

If you are using the optional Oil Pressure sensor and Coolant Temp kit with the dash these are all connected to your main Ignition harness via the 6 pin "Spare" connector.

- Pin 1 Battery
- Pin 2 5 volts
- Pin 3 TXD
- Pin 4 Oil Pressure
- Pin 5 Coolant Temp
- Pin 6 GND

Programming

The mini dash is programmed using the same Version 9.0 System Editor that the R1i is programmed with. At the bottom of the File Folder is a new Group called "Dash Control". Under this menu you can set the rpm values for each of the shift lamps and the system alarms. The dash brightness can also be set to 4 different intensities. These settings are part of each ignition map.

Operation

The mini dash has 5 rpm LED's. When the engine rpm in the map for each LED is reached the lamp will illuminate. The lamps can be set to any value with a resolution of 10 rpm.

The 2 main char displays have 3 pages of data. The default page is Coolant Temp and Oil Pressure. Pressing the SW2 button will change to the next page. Page 2 displays Battery Voltage and Air Fuel Ratio (lambda). Pressing the SW2 a third time will bring up the maximum engine rpm display.

To reset the maximum engine rpm recorded press and hold the SW1 button for 2 secs. The mini dash stores the maximum engine rpm in nonvolatile memory, so it is retained even when the battery is disconnected.