

## DASH FEATURES

### Overview

The MicroTech Dash features include:

- Large easy to read high temperature resistant LCD display.
- Digital tachometer and boost gauge.
- Water/ Air/ Battery measurements and limit warning function.
- Programmable ultra-bright 4 LED rev and gear shift indicator.

The upgraded software that has been installed in your MicroTech computer still looks the same as the old system, however the Log set-up screens (s2) have been replaced by the Dash configuration screens (NOTE: these functions are not lost; Max/Min data logging is a standard feature of the ECU).

### Display

At the top of the Dash is 4 high intensity LED's, which act as an "eyes up", rev and shift display. Although the Dash is not designed to be used in the same way as a Handset, it can be used in an emergency. While viewing standard functions the display is exactly the same as the standard Handset display. In Dash mode the LCD display offers 4 screens of data in that may be viewed:

- The MAIN display consists of a bar graph tachometer across the top line and a digital rev counter and water temp / boost pressure display on the second line. The water temp display is automatically replaced by the boost display the moment positive pressure is detected. The rev counter is replaced by the message "CRK-rpm" whilst cranking the engine.
- Data1 displays engine revs and vacuum / boost on the top line and timing advance / injector open time on the second line.
- Data2 displays water and air temperatures on the top line and timing advance / injector open time on the second line.
- Data3 displays TPS (throttle opening) and battery voltage on the top line and timing advance / injector open time on the second line.

The Dash will also display warning messages if it detects oil pressure, water or air temperature, battery voltage or boost exceed pre-set thresholds (see SET-UP below for information on setting thresholds). If an error is detected by the Dash, the high intensity master warning light (left hand amber lamp) will switch on and a warning message will appear in place of the water temp / boost display on the MAIN screen or in place of the injector open time on the Data screens. The error codes are; Water\_T, Air\_T, Battery, Boost and Oil\_P (requires the fitting of a standard oil pressure switch to the Blue/Red AUX Input wire of the MT ECU. - refer to the wiring diagram supplied with your MT series computer. Contrast of the LCD display may be adjusted via a trimpot on the right hand side of the unit.

### Controls

There are 3 toggle switches on the upper body of the Dash, which allow you to navigate through the display screens for the Dash as well as all the standard program screens for the MT ECU. While the Dash is not designed to be an everyday handset, it is possible to use it to make adjustments to your computer if necessary.

- The left-hand switch is the MODE and DATA controls.
- Pressing the button down (DATA) will advance the display of the Data screens. The screens are viewed in a loop; - MAIN - Data1 - Data2 - Data3 - Last Function - MAIN. The Last Function screen will show the last program screen that was viewed, e.g.; say you are making an adjustment to the 15"Hg Load screen. Pressing the DATA button will advance through the MAIN and Data screens, then automatically return to the 15"Hg Load screen. The remote pushbutton has the same function - it is merely an extension of the DATA button allowing you to navigate through the Data screens without taking your hands off the wheel.
- Pressing the button up (MODE) toggles the ECU between VIEW and PROG modes when using the standard functions of your MT ECU, the same as the red button on the MicroTech handset. The two switches on the right are the same as the REF and FUNC/ADJ buttons on the MicroTech handset, allowing you full access to the software should it be necessary to make any alterations to your program. Using the middle button while viewing the MAIN or Data screens will scroll the display left or right through all the Data screens, including the Max/Min log screens and Error log screens.

### Set-up

In order to customise the Dash to your application, 4 set-up screens have been included in the upgraded software that was installed in your MT ECU when you purchased your Dash. These screens can be found in **Screen 29: Aux**. The set-up screens are:

**Dash SHIFT:** This value sets the rev range the tachometer will cover and the switch on point for the shift light, e.g.; if the redline of your engine is 5500rpm, enter 5500 as the value in this screen. Now the bar graph tachometer will be completely filled at 5500rpm and the high intensity shift lamp will come on just before redline is reached.

**Dash WATER:** Sets the maximum safe water temperature. If this figure is exceeded the Water\_T warning will appear on the screen and the master warning lamp will come on.

**Dash BOOST:** Sets the maximum safe boost level. If the engine is over-boosting, the Boost warning will appear on the screen and the master warning lamp will come on.

**Dash AIR\_T:** Sets the threshold at which the Air\_T warning will come on. This function can be especially handy with turbocharged engines.