Quick Reference Colour Touch Dash Guide

RPM Shift LED's

Touch, Hot Corner
Display Handset

Touch, Hot Corner
Scroll Data Screens

Buzzer

USB
Laptop
Connection

R.P.M. **2768**

M.A.P **11.8** K.P.H. **06**

T.P.S. **100** A.F.R. **14.40** Wat T **81**

DaTa 1 Demo –

Touch, Hot Corner
Display Configuration

Alarm LED

Acknowledge
LED

Touch, Hot Corner
Scroll Diagnostic Screens

R.P.M. **7888**

Data Screens
1 to 4:
Fields 1, 2 & 3

Air T **40** Battery **13.80** T.P.S. **100**

Ign **25** AuXmS **2.35** Inj mS **7.50**

DaTa 2 Demo –

Data Screens
1 to 4:
Fields 4, 5 & 6

Screen Page
Number

Dash Mode
&
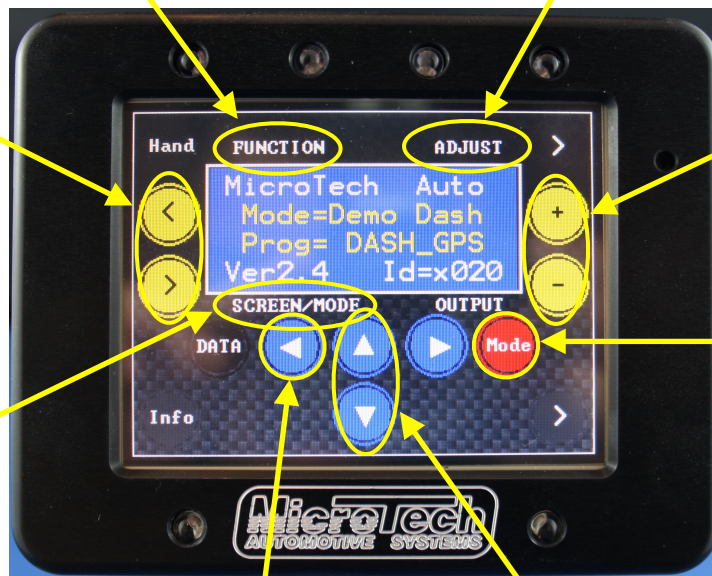Input Status

Handset Programming Screen

Function: Displays the name of the function being view.

Adjust: Displays the adjustment value currently being view or edited.

Page Up/ Down: While in program mode

Fast increment / decrement: While program mode.

Screen/Mode: Displays the screen number being referenced or indicates that the DASH is in PROGRAM mode.

Mode Button (red): Switches the DASH between VIEW and PROGRAM modes

Hand FUNCTION   ADJUST   >
MicroTech Auto
Mode=Demo Dash
Prog= DASH_GPS
Ver2.4   Id=x020
SCREEN/MODE   OUTPUT
DATA ◄ ▲ ► Mode
Info   ▼   >

REF Buttons (Blue): The REF buttons are used to scroll through the settings available on each screen. These buttons work the same way in either view or program mode.
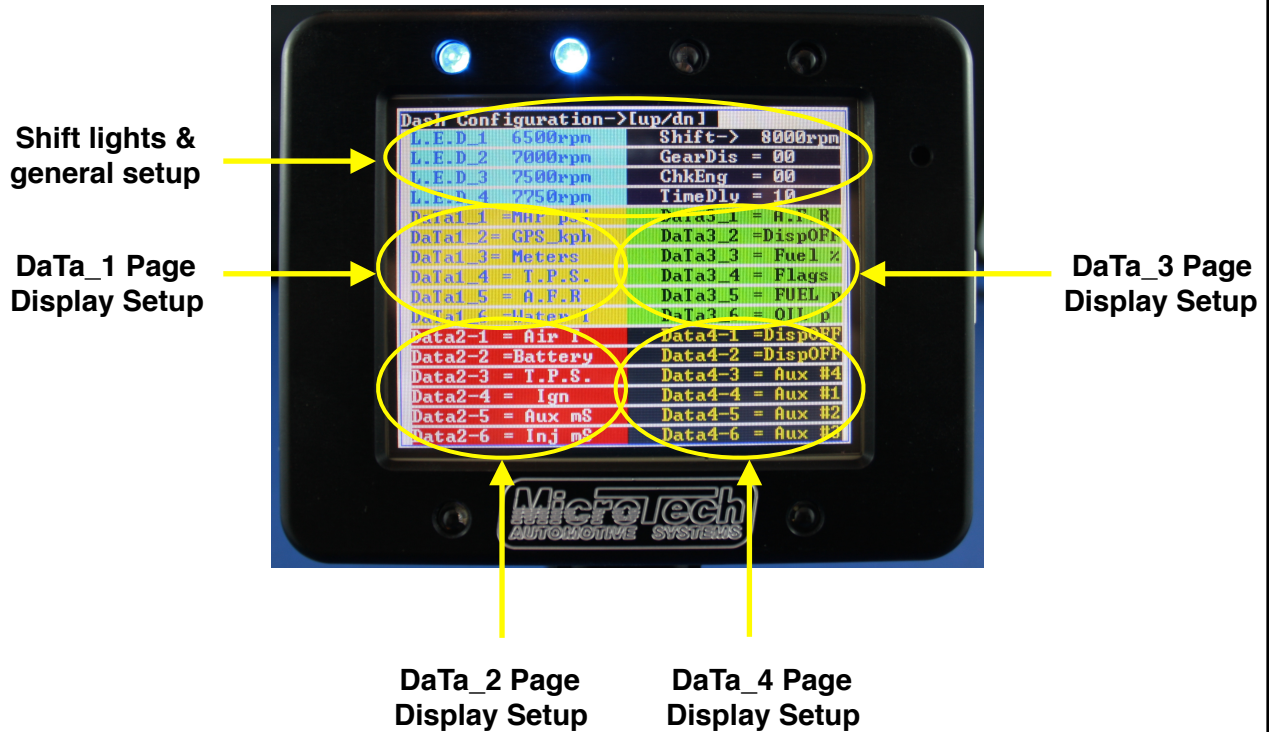
FUNC/ADJ Buttons (Blue):
- In VIEW mode, these are the FUNCTION buttons and are used to scroll up and down through the function screens.
- In PROG mode, these are the ADJUST buttons and are used in conjunction with the ADJ display to make changes to the program.
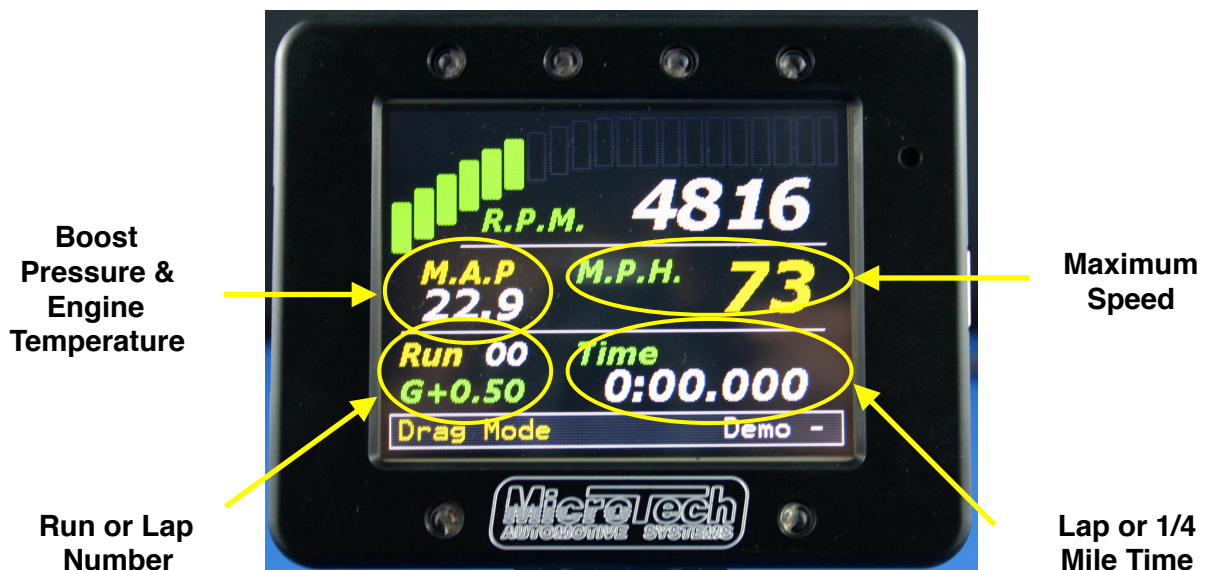
Quick Example Adjusting Data_1 Field No. 1 to display MAP KPA (func_2)
1. Touch Top Left Side Hot Corner to display Handset
2. Scroll to Page_1 Dash Display Data_1_1
3. Press mode button to enable programming mode
4. Press the up or down REF button until it displays MAP KPA (func_2)
5. Press mode button again to save the change made and exit programming mode
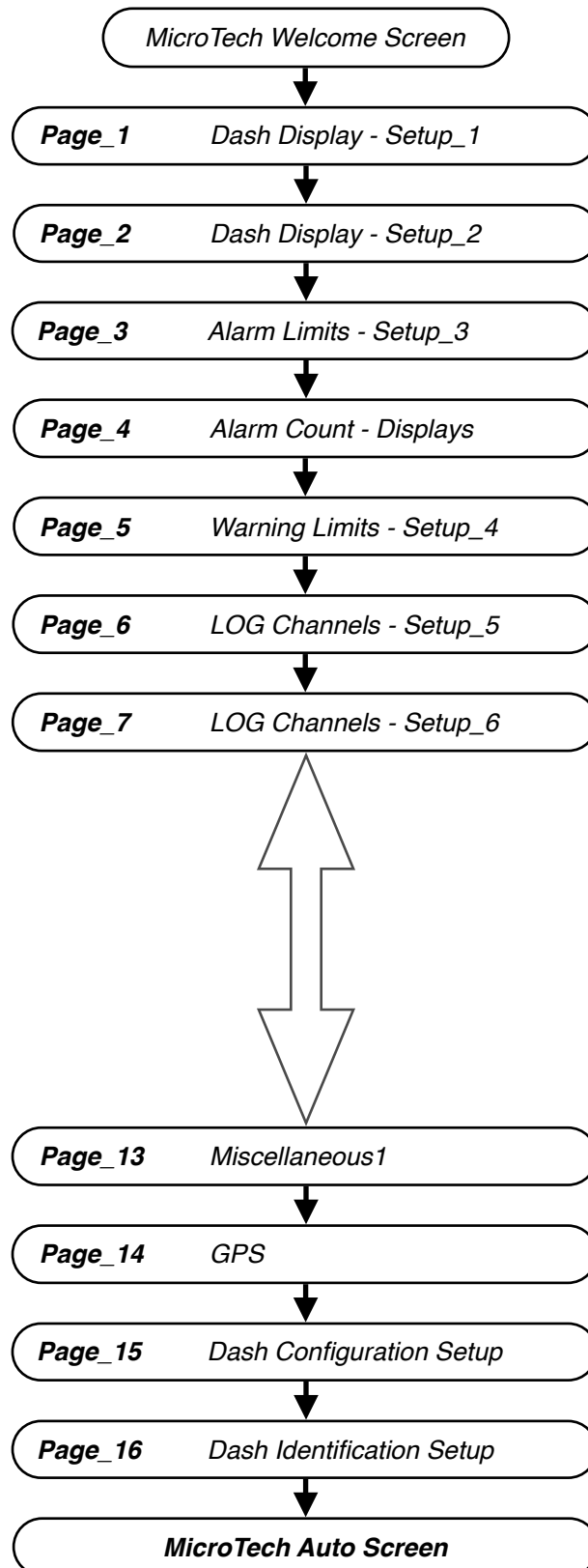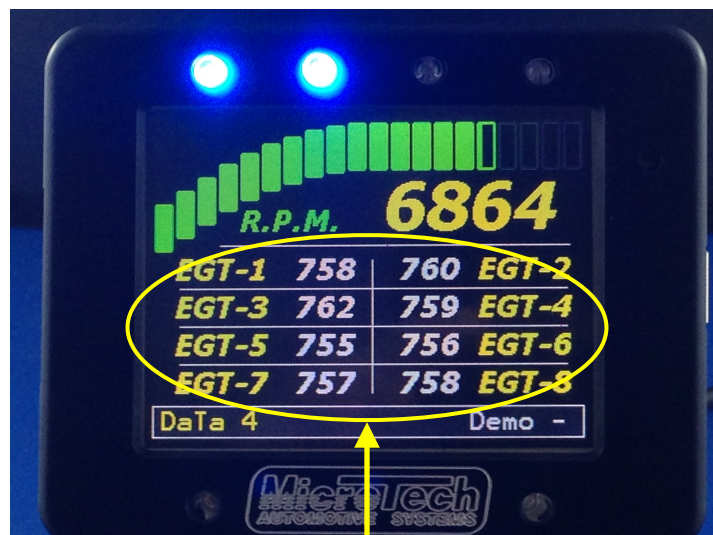
Display Configuration Screen

Shift lights & general setup

DaTa_1 Page Display Setup

DaTa_3 Page Display Setup

```
Dash Configuration->[up/dn]
L.E.D_1   6500rpm    Shift-> 8000rpm
L.E.D_2   7000rpm    GearDis = 00
L.E.D_3   7500rpm    ChkEng  = 00
L.E.D_4   7250rpm    TimeDly = 10
DaTa1_1 =MAP ps      DaTa3_1 = A.F.R
DaTa1_2= GPS_kph     DaTa3_2 =DispOFF
DaTa1_3= Meters      DaTa3_3 = Fuel %
DaTa1_4 = T.P.S.     DaTa3_4 = Flags
DaTa1_5 = A.F.R      DaTa3_5 = FUEL p
DaTa1_6 =Water       DaTa3_6 = OIL p
Data2-1 = Air        Data4-1 =DispOFF
Data2-2 =Battery     Data4-2 =DispOFF
Data2-3 = T.P.S.     Data4-3 = Aux #4
Data2-4 =  Ign       Data4-4 = Aux #1
Data2-5 = Aux mS     Data4-5 = Aux #2
Data2-6 = Inj mS     Data4-6 = Aux #3
```

DaTa_2 Page Display Setup

DaTa_4 Page Display Setup

Timing Screen

Boost Pressure & Engine Temperature

Maximum Speed

```
R.P.M.  4816
M.A.P   M.P.H.
22.9    73
Run 00  Time
G+0.50  0:00.000
Drag Mode        Demo -
```

Run or Lap Number

Lap or 1/4 Mile Time

Dash Software Flow Chart

> *MicroTech Welcome Screen*

> *Page_1*   *Dash Display - Setup_1*

> *Page_2*   *Dash Display - Setup_2*

> *Page_3*   *Alarm Limits - Setup_3*

> *Page_4*   *Alarm Count - Displays*

> *Page_5*   *Warning Limits - Setup_4*

> *Page_6*   *LOG Channels - Setup_5*

> *Page_7*   *LOG Channels - Setup_6*

> *Page_13*   *Miscellaneous1*

> *Page_14*   *GPS*

> *Page_15*   *Dash Configuration Setup*

> *Page_16*   *Dash Identification Setup*

> ***MicroTech Auto Screen***

Special Function Screens

DaTa_3 A.F.R Screen

DaTa_4 EGT Screen

Dash 3.5" Pinout Diagram

107mm

85mm

PUSH BUTTON INPUT

GPS INPUT

Gnd

+12v

CAN Lo

CAN Hi

CAN Lo Spare

CAN Hi Spare

Not Used
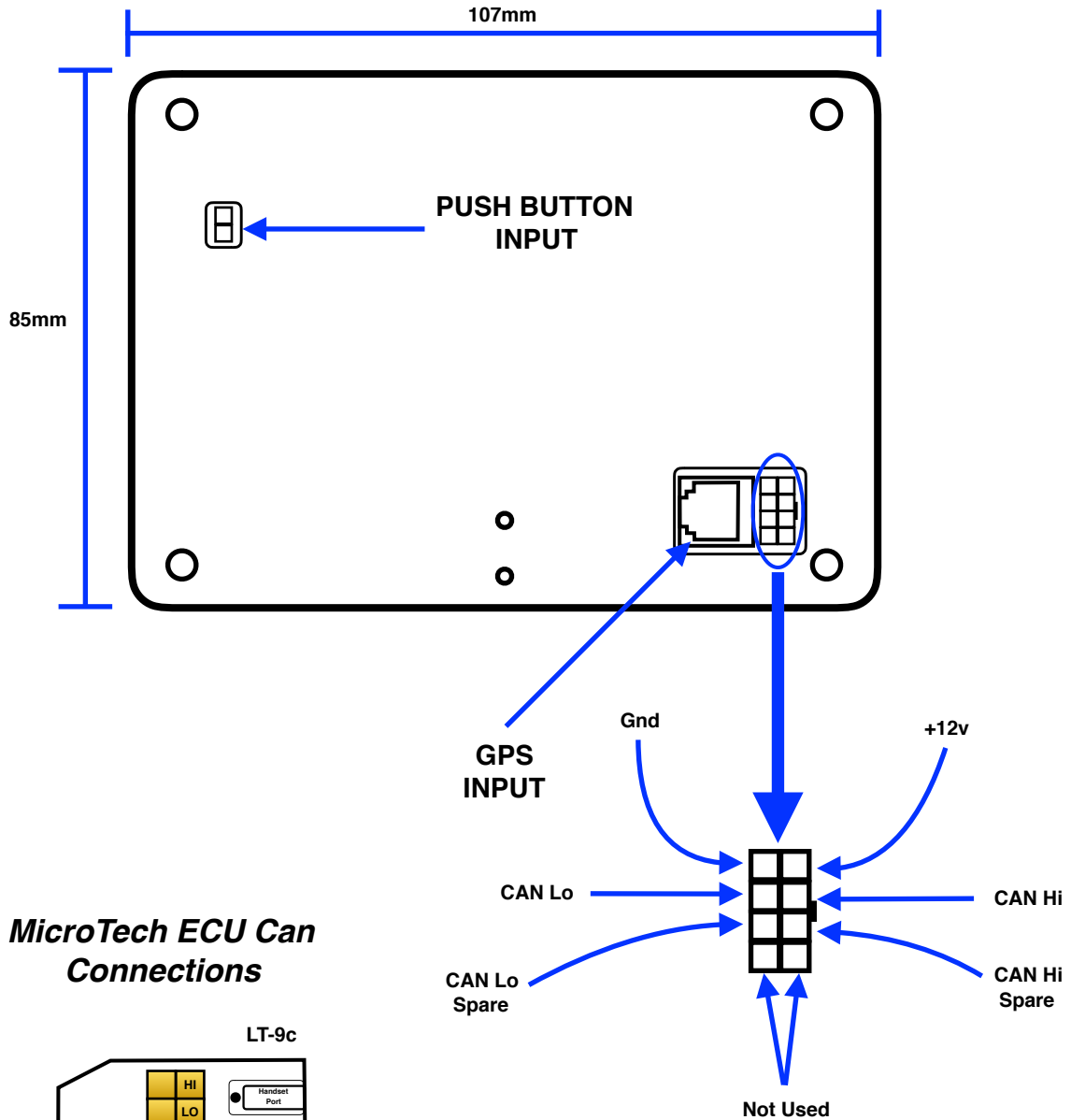
MicroTech ECU Can Connections

LT-9c

HI
LO
Handset Port

LT-10c/15c

HI
LO
Handset Port

LT-16c

HI
LO
Handset Port
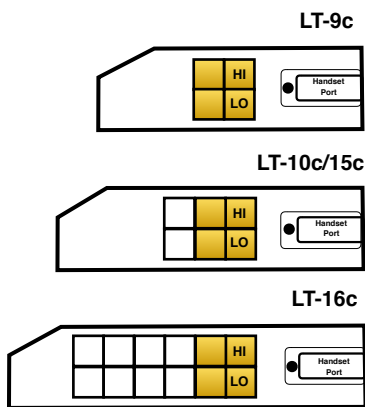
Page_1 Dash Display - Setup_1		Page_2 Dash Display - Setup_2	
L.E.D_1 rpm	Adjust RPM/Activation point on LED 1	**Shift -> rpm**	Adjust RPM Shift point
L.E.D_2 rpm	Adjust RPM/Activation point on LED 2	**GearDisplay**	
L.E.D_3 rpm	Adjust RPM/Activation point on LED 3	**Chk Eng Symbol**	
L.E.D_4 rpm	Adjust RPM/Activation point on LED 4	**DispDly Sec**	Warning and Lap Time Display time
Data1_1	Adjust the function that is to be displayed on the Dash Data Screen 1, Field No. 1	**Data3_1**	Adjust the function that is to be displayed on the Dash Data Screen 3, Field No. 1
Data1_2	Adjust the function that is to be displayed on the Dash Data Screen 1, Field No. 2	**Data3_2**	Adjust the function that is to be displayed on the Dash Data Screen 3, Field No. 2
Data1_3	Adjust the function that is to be displayed on the Dash Data Screen 1, Field No. 3	**Data3_3**	Adjust the function that is to be displayed on the Dash Data Screen 3, Field No. 3
Data1_4	Adjust the function that is to be displayed on the Dash Data Screen 1, Field No. 4	**Data3_4**	Adjust the function that is to be displayed on the Dash Data Screen 3, Field No. 4
Data1_5	Adjust the function that is to be displayed on the Dash Data Screen 1, Field No. 5	**Data3_5**	Adjust the function that is to be displayed on the Dash Data Screen 3, Field No. 5
Data1_6	Adjust the function that is to be displayed on the Dash Data Screen 1, Field No. 6	**Data3_6**	Adjust the function that is to be displayed on the Dash Data Screen 3, Field No. 6
Data2_1	Adjust the function that is to be displayed on the Dash Data Screen 2, Field No. 1	**Data4_1**	Adjust the function that is to be displayed on the Dash Data Screen 4, Field No. 1
Data2_2	Adjust the function that is to be displayed on the Dash Data Screen 2, Field No. 2	**Data4_2**	Adjust the function that is to be displayed on the Dash Data Screen 4, Field No. 2
Data2_3	Adjust the function that is to be displayed on the Dash Data Screen 2, Field No. 3	**Data4_3**	Adjust the function that is to be displayed on the Dash Data Screen 4, Field No. 3
Data2_4	Adjust the function that is to be displayed on the Dash Data Screen 2, Field No. 4	**Data4_4**	Adjust the function that is to be displayed on the Dash Data Screen 4, Field No. 4
Data2_5	Adjust the function that is to be displayed on the Dash Data Screen 2, Field No. 5	**Data4_5**	Adjust the function that is to be displayed on the Dash Data Screen 4, Field No. 5
Data2_6	Adjust the function that is to be displayed on the Dash Data Screen 2, Field No. 6	**Data4_6**	Adjust the function that is to be displayed on the Dash Data Screen 4, Field No. 6

Page_3 *Alarm Limits - Setup_3*

Setup Minimum and Maximum Limits for Alarm Notification

RPMcut cold	Maximum RPM value when water temperature is cold
Water_T Min	Minimum value of Water Temperature for Alarm Notification
WaterT Max	Maximum value of Water Temperature for Alarm Notification
Air_T Max	Air Temperature Maximum Value for Alarm Notification
BoostMaxBAR	Boost Maximum Value for Alarm Notification
BatteryMin	Battery Minimum Value for Alarm Notification
Oil_pBarMin	Oil pressure minimum value for Alarm Notification
FuelpBarMin	Fuel pressure minimum value for Alarm Notification
Lambda Min	Lambda minimum value for Alarm Notification
SPEEDmaxKPH	Maximum speed for Alarm Notification
ExhTempMaxC	Maximum Exhaust Temperature for Alarm Notification
ARM R.P.M	System Arm RPM for Alarm Function to operate
ARM T.P.S	System Arm TPS for Alarm Function to operate
Alm R.P.M	Alarm Notification RPM
Alm Time s	Alarm Notification Display time
Alm Buzzer	Alarm Notification Buzzer On/Off

Page_4 *Alarm Count - Displays*

Logs All Alarm Types: Count 0-255

RPMlim Cold	
Water_T Max	Water Temperature Maximum Alarm Count
Air_T Max	Air Temperature Maximum Alarm Count
Boost Max	Boost Maximum Alarm Count
Battery Min	Battery Minimum Alarm Count
Oil PresMin	Oil Pressure Minimum Alarm Count
FuelPresMin	Fuel Pressure Minimum Alarm Count
Lambda	Lambda Alarm Count
Speed Max	Maximum Speed Alarm Count
ExhTemp	Exhaust Temperature Alarm Count
Spare no.1	No Function
Spare no.2	No Function
Spare no.3	No Function
Spare no.4	No Function
TOTALalarms	Total Alarm count
MAX Allowed	Maximum Alarm count before check engine is displayed

Page_5 *Warning Limits - Setup_4*

<u>Setup Minimum and Maximum Warning Colours for</u>
<u>DASH Data Display Values</u>

SPEEDmaxKPH	Maximum Speed Data warning colours to be displayed on Dash
WaterT MinC	Minimum Water Temperature Data warning colours to be displayed on Dash
WaterT MaxC	Maximum Water Temperature Data warning colours to be displayed on Dash
BoostMinBAR	Minimum Boost Data warning colours to be displayed on Dash
BoostMaxBAR	Maximum Boost Data Warning colours to be displayed on Dash
Lambda LEAN	Minimum Lambda Data Warning colours to be displayed on Dash
Lambda RICH	Maximum Lambda Data Warning colours to be displayed on Dash
Oil_pMinBAR	Minimum Oil Pressure Data Warning colours to be displayed on Dash
Oil_pMaxBAR	Maximum Oil Pressure Data Warning colours to be displayed on Dash
FuelpMinBAR	Minimum Fuel Pressure Data Warning colours to be displayed on Dash
FuelpMAXBAR	Maximum Fuel Pressure Data Warning colours to be displayed on Dash
ExhTempMinC	Minimum Exhaust Temperature Data Warning colours to be displayed on Dash
ExhTempMaxC	Maximum Exhaust Temperature Data Warning colours to be displayed on Dash
Air_T Max C	Maximum Air Temperature Data Warning colours to be displayed on Dash
Battery_HI	High Battery value Data Warning colours to be displayed on Dash
BatteryLOW	Low Battery value Data Warning colours to be displayed on Dash

Page_6 *LOG Channels - Setup_5*

<u>Setup Logging Channels</u>

Log_Ch1	Setup Data function to be logged on Channel 1
Log_Ch2	Setup Data function to be logged on Channel 2
Log_Ch3	Setup Data function to be logged on Channel 3
Log_Ch4	Setup Data function to be logged on Channel 4
Log_Ch5	Setup Data function to be logged on Channel 5
Log_Ch6	Setup Data function to be logged on Channel 6
Log_Ch7	Setup Data function to be logged on Channel 7
Log_Ch8	Setup Data function to be logged on Channel 8
Log_Ch9	Setup Data function to be logged on Channel 9
Log_Ch10	Setup Data function to be logged on Channel 10
Log_Ch11	Setup Data function to be logged on Channel 11
Log_Ch12	Setup Data function to be logged on Channel 12
Log_Ch13	Setup Data function to be logged on Channel 13
Log_Ch14	Setup Data function to be logged on Channel 14
Log_Ch15	Setup Data function to be logged on Channel 15
Log_Ch16	Setup Data function to be logged on Channel 16

Page_7 *LOG Channels - Setup_6*

Setup Logging Channels

Log_Ch17	Setup Data function to be logged on Channel 17
Log_Ch18	Setup Data function to be logged on Channel 18
Log_Ch19	Setup Data function to be logged on Channel 19
Log_Ch20	Setup Data function to be logged on Channel 20
Log_Ch21	Setup Data function to be logged on Channel 21
Log_Ch22	Setup Data function to be logged on Channel 22
Log_Ch23	Setup Data function to be logged on Channel 23
Log_Ch24	Setup Data function to be logged on Channel 24
Spare_1	No function
Spare_2	No function
Spare_3	No function
Spare_4	No function
Spare_5	No function
GPSlogOn/Off	Turn on logging via GPS location
Log On RPM	Turn on logging via RPM
LOG on K.P.H	Turn on logging via Speed

Page_13 *Miscellaneous1*

Gear_0	
Gear_1	
Gear_2	
Gear_3	
Gear_4	Factory Use Only
Gear_5	
Gear_6	
Gear_7	
Spare1	
HIbyte	
MID_16	
LObyte	
Weight	Factory Use Only
ChkEng	
TPSmin	
TPSmax	

Page_14 GPS		Page_15 Dash Configuration Setup	
Lat N/S_1		**Data Screens**	Dash Data Screens to be displayed
Lat Degs_1		**Start Screen**	Dash Screen to be displayed at start up
Lat .dd_ _1		**Timing Mode**	Lap time or Drag mode for timing screen
Lat .dddd1	GPS Memory	**Mode**	Setup CAN input Protocol (ECU dependant)
Long E/W_1	Storage Area	**DataProtocol**	Factory Use only
Long Degs1	Location 1	**Temp**	Temperature Values to be displayed in C° or F°
Long.dd_ _1	Factory Use Only	**Pressure**	Pressure Value to be displayed in KPA or PSI
Long.dddd1		**INPvalues**	Factory Use only
Lat N/S_2		**AFRdis**	Air Fuel/Type to be displayed
Lat Degs_2		**Spare Not used 1**	
Lat .dd_ _2		**Spare**	
Lat .dddd2	GPS Memory	**GMTime**	Time to be added to GPS GMT Time (country dependant)
Long E/W_2	Storage Area	**G_Long**	Factory Use only
Long Degs2	Location 2	**G_Lat**	Factory Use only
Long.dd_ _2	Factory Use Only	**Piezo Vol**	Piezo volume 0% to 100%
Long.dddd2		**PROG**	Enable configuration programming or lock Dash editing

Char1=D

Char2=A

Char3=S

Char4=H

Char5=-

Char6=G

Char7=P

Char8=S

These screens allow you to give an 8-characters name to your program; this is the name that appears in the ID screen when the DASH is turned on. Naming a program makes identifying your different set-ups simple. To edit your program name scroll to the characters you wish to alter and use the ADJ buttons/up or down arrows to set the desired character. For example, to name a program "4cyl_tur", scroll to the Char1 screen, switch to program mode and use the up/down buttons to set the first character i.e.: "4". Now scroll rights to the Char2 screen and set the second character, "c". Set the rest of the characters in the same way (Screens Char3 to Char8), then switch back to view mode. The name you have entered will now appear as the program description in the ID screen.

High Byte

Low Byte

DASH CAN Identification

Factory Use Only

Pin#1

Pin#2

Pin#3

Pin#4

Pin#5

Pin#6

These screens allow you to set the 6-digit security number for the DASH, and are set in the same ways as the Char screens (above). If all six of these screens are set to "0" (i.e. the PIN number = "000000"), the security lock features of the DASH will be switched off.

> **IMPORTANT NOTE: If you set a PIN number for your DASH, make sure you write the number down keep it in a safe place as you will not be able to program your DASH!**

MicroTech Auto Screen

Save to memCAL#1	When the DASH is unlocked, the left/right arrows scroll through the program selection options. The DASH software has four memories called memCALs, which allow for the storage and retrieval of different set-ups.
Save to memCAL#2	These memories are stored on a DASH memory chip. Note that these memories cannot be accessed, when DASH is locked.
Save to memCAL#3	The memCALs are accessed by using the left/right arrows to scroll to the desired memory area (memcal 1-4) then pressing the MODE button twice, e.g. pressing the MODE button twice when the display reads "Save to
Save to memCAL#4	memCAL#3" would store the current settings in memCAL 3. While a program is saved or loaded, the display will read "Programming Please Wait". The memCALs can also be most useful for temporarily storing data
LOAD memCAL #1	while working on programs; if you want to try an adjustment but don't want to lose the data you already have, save your settings in one of the memCAL areas and it can be retrieved later if your adjustments don't work.
LOAD memCAL #2	
LOAD memCAL #3	
LOAD memCAL #4	
Erase DaTa LOG	If unit has Data logging enabled pressing mode button twice, will erase on board Data log. Also display's logging time used in minutes.