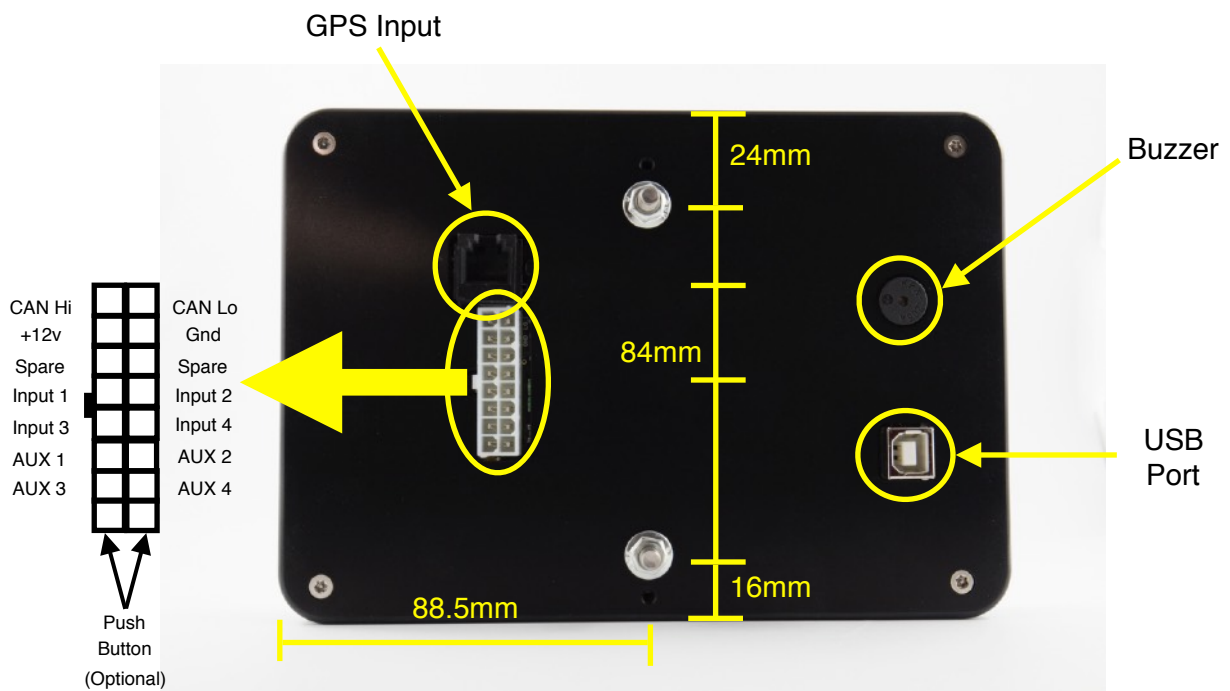




Quick Reference Colour 5" & 7" Touch Dash Guide



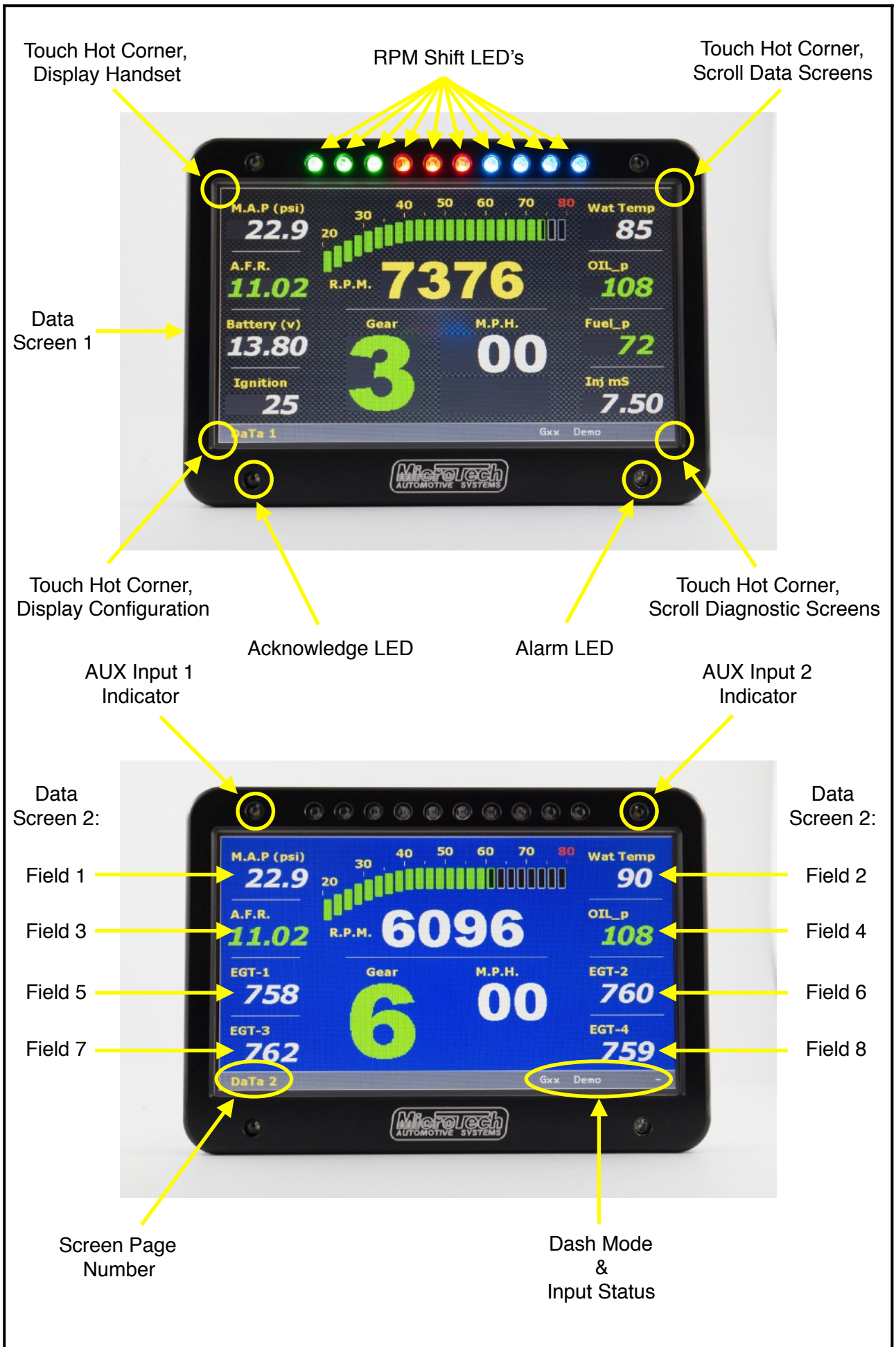
Dash 7" Dimensions



Optional Functions:

- Input-1 - Right Indicator
- Input-2 - Left Indicator
- Input-3 - Lights ON
- Input-4 - High Beam ON

- Aux-1 - Alarm Output (-ve trig)
- Aux-2 - General Purpose Aux Output (-ve trig)
- Aux-3 - Speed Input (optional)
- Aux-4 - Fuel Level Input (optional)



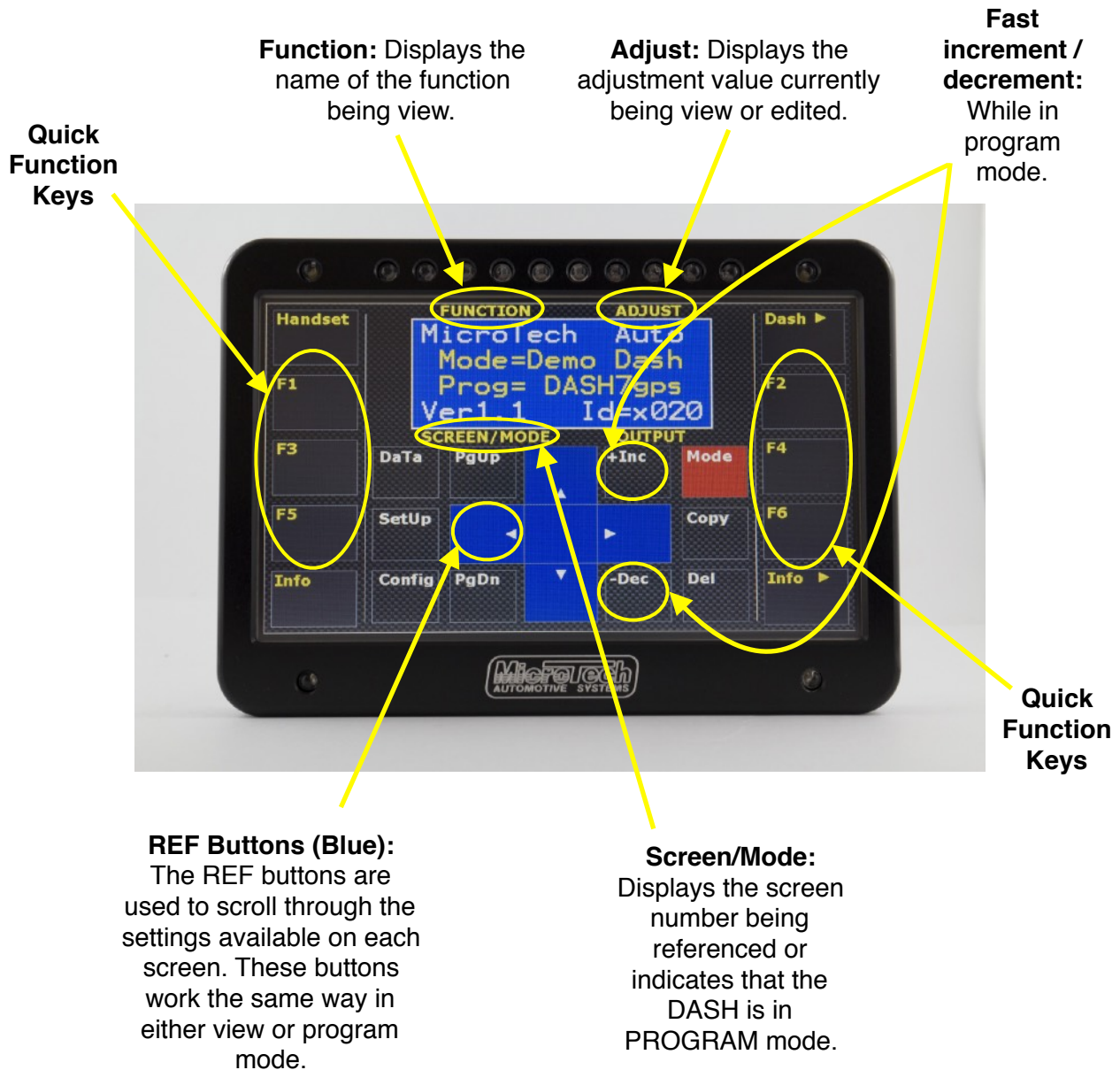
Data Screen 3



Data Screen 4



Handset Programming Screen (Page 1)

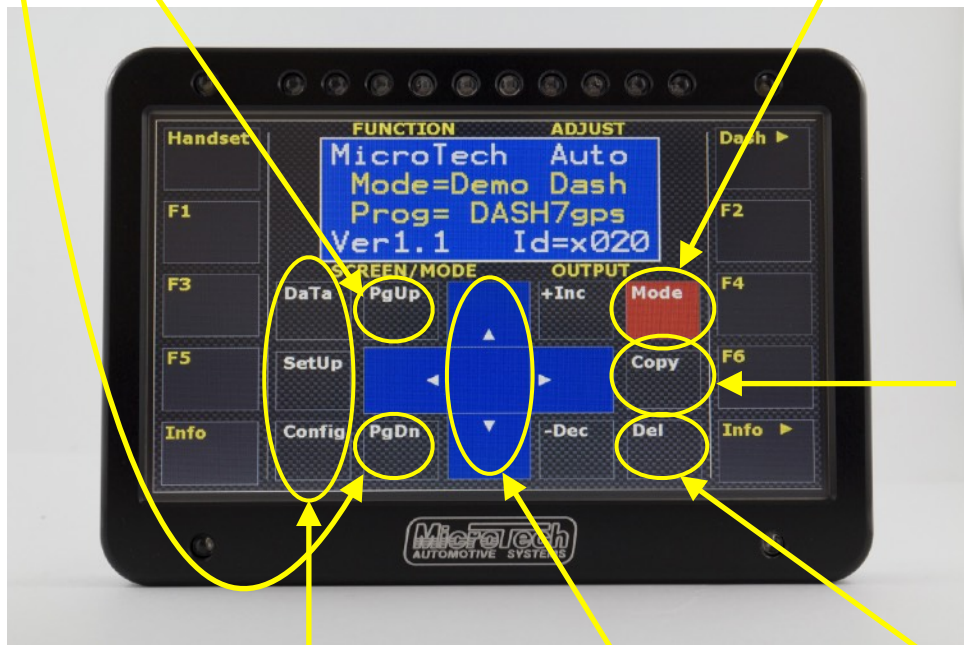


- Quick Example Adjusting Data_1 Field No. 1 to display MAP KPA (func_2)
1. Touch Top Left Side Hot Corner to display Handset
 2. Scroll to Page_2 Dash Display DaTa_1 & 2
 3. Press mode button to enable programming mode
 4. Press the up or down REF button until it displays MAP KPA (func_2)
 5. Press mode button again to save the change made and exit programming mode

Handset Programming Screen (Page 2)

Page Up/Down:
While in program mode

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



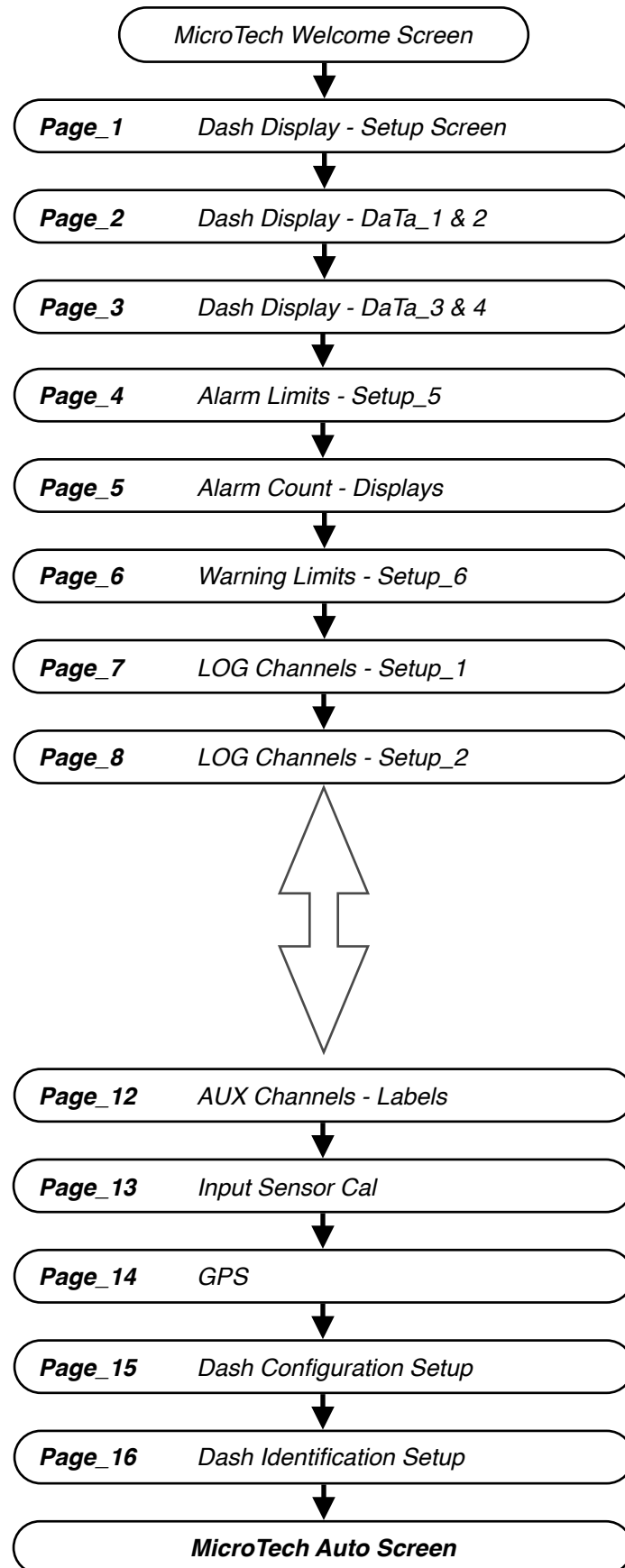
**Copy/
Paste
Data**

**Quick
Setup
Screens**

**Delete
Current
Data**

- 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.

Dash Software Flow Chart



Page_1 Dash Display - Setup Screen

L.E.D_1 rpm	Adjust RPM/Activation point on LED group 1
L.E.D_2 rpm	Adjust RPM/Activation point on LED group 2
L.E.D_3 rpm	Adjust RPM/Activation point on LED group 3
L.E.D_4 rpm	Adjust RPM/Activation point on LED group 4
Shift -> rpm	Adjust RPM Shift point
Main_fn	Adjust Speed and Gear Display on Main Dash Screen
Spare_1	No Function
Spare_2	No Function
Spare_3	No Function
Screen1	Adjust Background colour on Data Screen 1
Screen2	Adjust Background colour on Data Screen 2
Screen3	Adjust Background colour on Data Screen 3
Screen4	Adjust Background colour on Data Screen 4
Screen5	Adjust Background colour on Timing Screen
Dimmer Light	Dims Dash Display when lights turned on (input #3)
DispDly Sec	Warning and Lap Time Display time

Page_2 Dash Display - DaTA_1 & 2

Select what Data is to be displayed on Dash Data Screens

Data1_1	Adjust the function that is to be displayed on the Dash Data Screen 1, Field No. 1
Data1_2	Adjust the function that is to be displayed on the Dash Data Screen 1, Field No. 2
Data1_3	Adjust the function that is to be displayed on the Dash Data Screen 1, Field No. 3
Data1_4	Adjust the function that is to be displayed on the Dash Data Screen 1, Field No. 4
Data1_5	Adjust the function that is to be displayed on the Dash Data Screen 1, Field No. 5
Data1_6	Adjust the function that is to be displayed on the Dash Data Screen 1, Field No. 6
Data1_7	Adjust the function that is to be displayed on the Dash Data Screen 1, Field No. 7
Data1_8	Adjust the function that is to be displayed on the Dash Data Screen 1, Field No. 8
Data2_1	Adjust the function that is to be displayed on the Dash Data Screen 2, Field No. 1
Data2_2	Adjust the function that is to be displayed on the Dash Data Screen 2, Field No. 2
Data2_3	Adjust the function that is to be displayed on the Dash Data Screen 2, Field No. 3
Data2_4	Adjust the function that is to be displayed on the Dash Data Screen 2, Field No. 4
Data2_5	Adjust the function that is to be displayed on the Dash Data Screen 2, Field No. 5
Data2_6	Adjust the function that is to be displayed on the Dash Data Screen 2, Field No. 6
Data2_7	Adjust the function that is to be displayed on the Dash Data Screen 2, Field No. 7
Data2_8	Adjust the function that is to be displayed on the Dash Data Screen 2, Field No. 8

Page_3 Dash Display - DaTA_3 & 4

Select what Data is to be displayed on Dash Data Screens

Data3_1	Adjust the function that is to be displayed on the Dash Data Screen 3, Field No. 1
Data3_2	Adjust the function that is to be displayed on the Dash Data Screen 3, Field No. 2
Data3_3	Adjust the function that is to be displayed on the Dash Data Screen 3, Field No. 3
Data3_4	Adjust the function that is to be displayed on the Dash Data Screen 3, Field No. 4
Data3_5	Adjust the function that is to be displayed on the Dash Data Screen 3, Field No. 5
Data3_6	Adjust the function that is to be displayed on the Dash Data Screen 3, Field No. 6
Data3_7	Adjust the function that is to be displayed on the Dash Data Screen 3, Field No. 7
Data3_8	Adjust the function that is to be displayed on the Dash Data Screen 3, Field No. 8
Data4_1	Adjust the function that is to be displayed on the Dash Data Screen 4, Field No. 1
Data4_2	Adjust the function that is to be displayed on the Dash Data Screen 4, Field No. 2
Data4_3	Adjust the function that is to be displayed on the Dash Data Screen 4, Field No. 3
Data4_4	Adjust the function that is to be displayed on the Dash Data Screen 4, Field No. 4
Data4_5	Adjust the function that is to be displayed on the Dash Data Screen 4, Field No. 5
Data4_6	Adjust the function that is to be displayed on the Dash Data Screen 4, Field No. 6
Data4_7	Adjust the function that is to be displayed on the Dash Data Screen 4, Field No. 7
Data4_8	Adjust the function that is to be displayed on the Dash Data Screen 4, Field No. 8

Page_4 Alarm Limits - Setup_5

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_5 Alarm Count - Displays

Page_6 Warning Limits - Setup_6

Logs All Alarm Types: Count 0-255

Setup Minimum and Maximum Warning Colours for
DASH Data Display Values

RPMcut	RPM cut Alarm Count
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

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_7 LOG Channels - Setup_1

Setup Logging Channels

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_8 LOG Channels - Setup_2

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_12 *AUX Channels - Labels*

Page_13 *Input Sensor Cal*

Press_1	Label assigned to Pressure 1 0-5v input
Press_2	Label assigned to Pressure 2 0-5v input
Press_3	Label assigned to Pressure 3 0-5v input
Press_4	Label assigned to Pressure 4 0-5v input
Temp_1	Label assigned to Temperature 1 input
Temp_2	Label assigned to Temperature 2 input
RPM_1	Label assigned to RPM_1 input
RPM_2	Label assigned to RPM_2 input
RPMinp1	Tooth count for RPMinp1 trigger wheel
RPMinp2	Tooth count for RPMinp2 trigger wheel

0-5v_1	Pressure Sensor type for 0-5v input 1
0-5v_2	Pressure Sensor type for 0-5v input 2
0-5v_3	Pressure Sensor type for 0-5v input 3
0-5v_4	Pressure Sensor type for 0-5v input 4
0-5v_5	Pressure Sensor type for 0-5v input 5

Tank	Tank Size in litres (Note 00 = Display fuel level as a Percentage)
FuelLo	Calibration Low tank value
FuelHI	Calibration Full tank value
ALMlow	Low Fuel warning display (percentage)

Spare_6
Spare_5
Spare_4
Spare_3
Spare_2
Spare_1

Factory Use Only

HIbyte
MID_16
LObyte
Weight
ChkEng
TPSmin
TPSmax

Factory Use Only

Page_14 GPS

Page_15 Dash Configuration Setup

Lat N/S_1

Lat Degs_1

Lat .dd_ _1

Lat .dddd1

Long E/W_1

Long Degs1

Long.dd_ _1

Long.dddd1

GPS Memory
Storage Area
Location 1
Factory Use Only

Lat N/S_2

Lat Degs_2

Lat .dd_ _2

Lat .dddd2

Long E/W_2

Long Degs2

Long.dd_ _2

Long.dddd2

GPS Memory
Storage Area
Location 2
Factory Use Only

Data Screens

Dash Data Screens to be displayed

Start Screen

Dash Screen to be displayed at start up

Timing Mode

Lap time or Drag mode for timing screen

Mode

Setup CAN input Protocol (ECU dependant)

DataProtocol

Factory Use only

Temp

Temperature Values to be displayed in C° or F°

Pressure

Pressure Value to be displayed in KPA or PSI

INPvalues

Factory Use only

AFRdis

Air Fuel/Type to be displayed

AuxIn

Setup Aux inputs for Standard or Indicator Function

Spare

GMTTime

Time to be added to GPS GMT Time (country dependant)

G_Long

Factory Use only

G_Lat

Factory Use only

Piezo Vol

Piezo volume 0% to 100%

PROG

Enable configuration programming or lock Dash editing

Page_16 Dash Identification Setup

Char1=D

Char2=A

Char3=S

Char4=H

Char5=7

Char6=g

Char7=p

Char8=s

These screens allow you to give an 8-character 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 right 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

DASH CAN Identification

Low Byte

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

Save to memCAL#2

Save to memCAL#3

Save to memCAL#4

LOAD memCAL #1

LOAD memCAL #2

LOAD memCAL #3

LOAD memCAL #4

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. These memories are stored on a DASH memory chip. Note that these memories cannot be accessed, when DASH is locked.

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 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 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.

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.