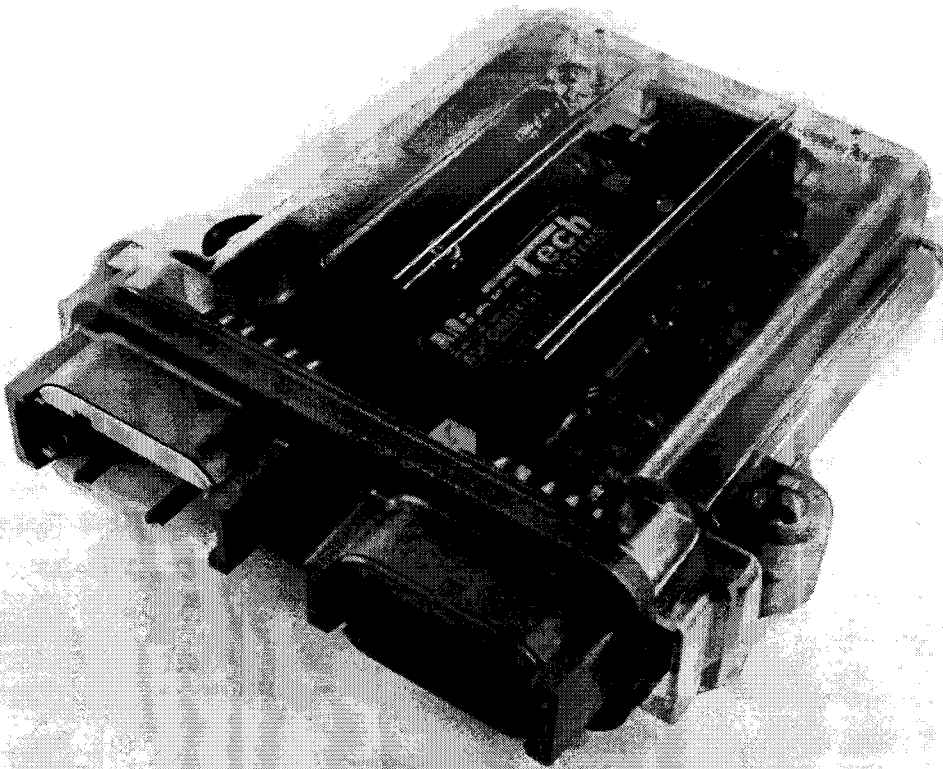
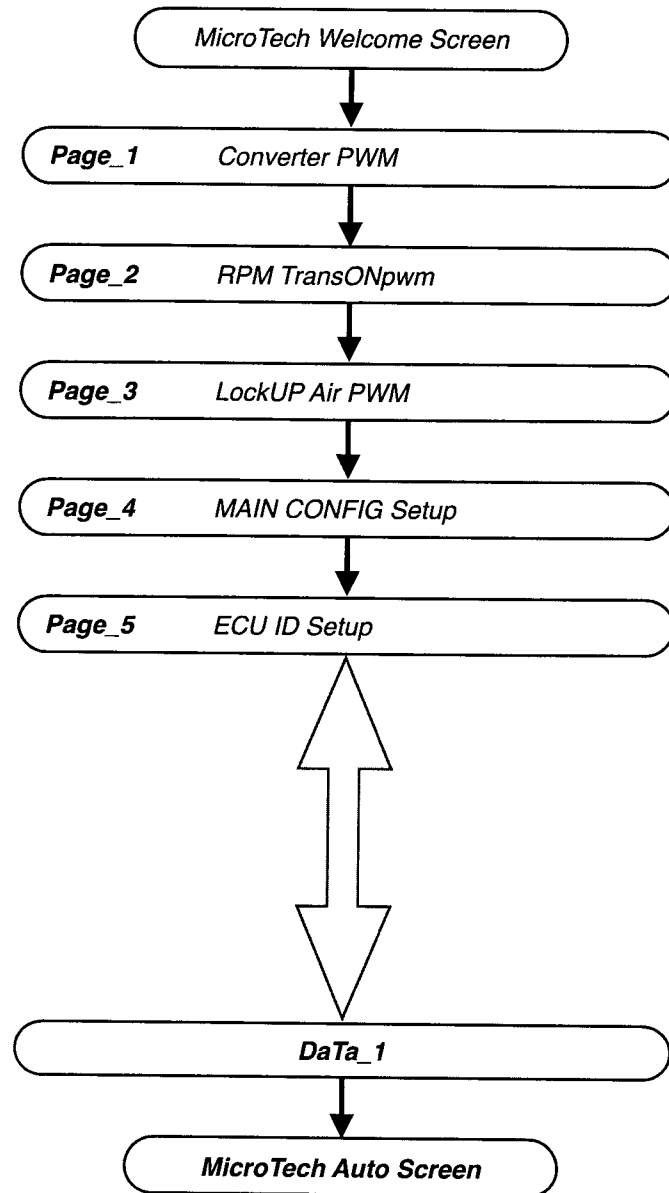




## *Torque Control Quick Reference Guide*



# Torque Control Software Flow Chart



**Page\_1 Converter PWM**

**Page\_2 RPM TransONpwm**

PWM 00 mS

PWM 200 mS

PWM 400 mS

PWM 600 mS

PWM 800 mS

PWM 1.0 S

PWM 1.2 S

PWM 1.4 S

PWM 1.6 S

PWM 1.8 S

PWM 2.0 S

PWM 2.2 S

PWM 2.4 S

PWM 2.6 S

PWM 2.8 S

PWM 3.0S

Converter Pressure  
PWM over Time Table

NOTE - Is only active  
once Transbrake is  
released and  
TransbrakeOFF  
(page\_4) is set to 00%.

RPM >1500

RPM 2000

RPM 2500

RPM 3000

RPM 3500

RPM 4000

RPM 4500

RPM 5000

RPM 5500

RPM 6000

RPM 6500

RPM 7000

RPM 7500

RPM 8000

RPM 8500

RPM 9000

Transbrake ON  
Converter Air Pressure  
PWM over RPM Table

## Page\_3 LockUP PWM

## Page\_4 CONFIG Setup

AIR 00 mS

AIR 200 mS

AIR 400 mS

AIR 600 mS

AIR 800 mS

AIR 1.0 S

Lock up Air Pressure  
PWM over Time Table

AIR 1.2 S

NOTE - Is active once  
Timerdelay (page\_4)

has timed out after  
Transbrake has been  
released.

AIR 1.4 S

AIR 1.6 S

AIR 1.8 S

AIR 2.0 S

AIR 2.2 S

AIR 2.4 S

AIR 2.6 S

AIR 2.8 S

AIR 3.0S

BrakeOFF

Transbrake off Converter  
Air Pressure PWM

BUMP Time

Bump time when Bump  
input pressed with  
Transbrake on.

Timer Delay

Timer delay after  
Transbrake released  
before Lockup Air PWM  
(page\_2) is active.

RPM ON

RPM Value Arms lock up  
pressure valves

RPMoff

RPM Value disarms lock  
up pressure valves

Input1

Pressure sensor type for  
input#1

Input2

Pressure sensor type for  
input#2

Cylinders

Select engine configuration  
cylinders for correct rpm  
reading.

Timer

Factor x1 = Time  
correction scale 0 - 3  
seconds

Laptop

CANidH

CANidL

CANbus

TXrate

CANinp

CANout

Advance setup  
features for  
Factory use only

## Page\_5 ECU ID Setup

PROG	Standard or advanced programming type. (Factory default = standard.)
E.C.U	Enables configuration programming or lock editing
Char1=T Char2=o Char3=r Char4=q Char5=u Char6=e Char7=- Char8=1	<p>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 controller is turned on. Naming a program makes identifying your different set-ups simple.</p> <p>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.</p>
Pin#1 Pin#2 Pin#3 Pin#4 Pin#5 Pin#6	<p>These screens allow you to set the 6-digit security number for the controller, 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 controller will be switched off.</p> <div style="border: 2px solid black; padding: 5px; margin: 10px 0;"> <p style="text-align: center;"><b>IMPORTANT NOTE: If you set a PIN number for your controller, make sure you write the number down keep it in a safe place as you will not be able to program your controller!</b></p> </div>

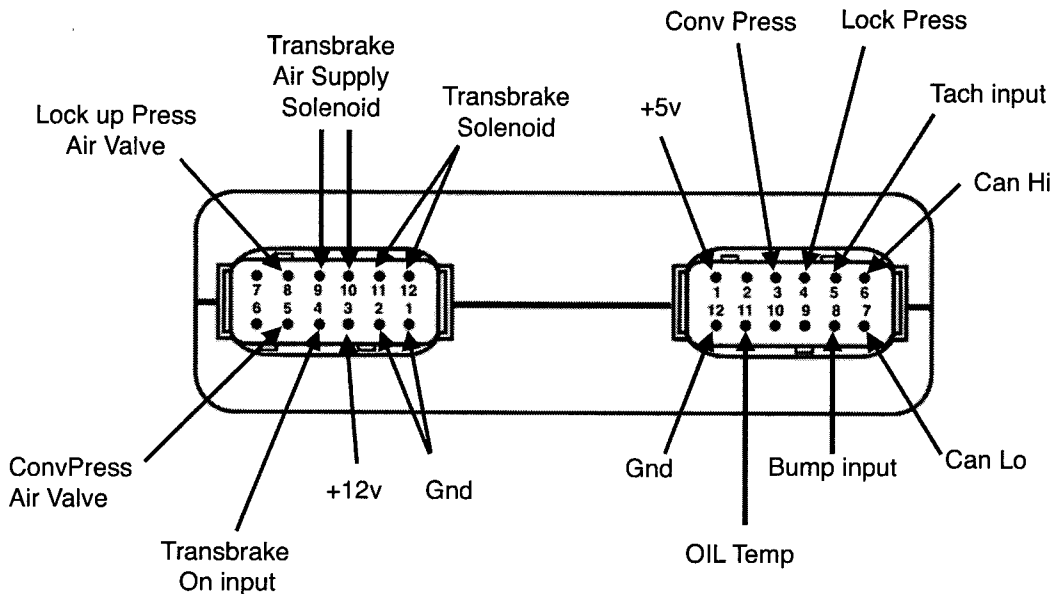
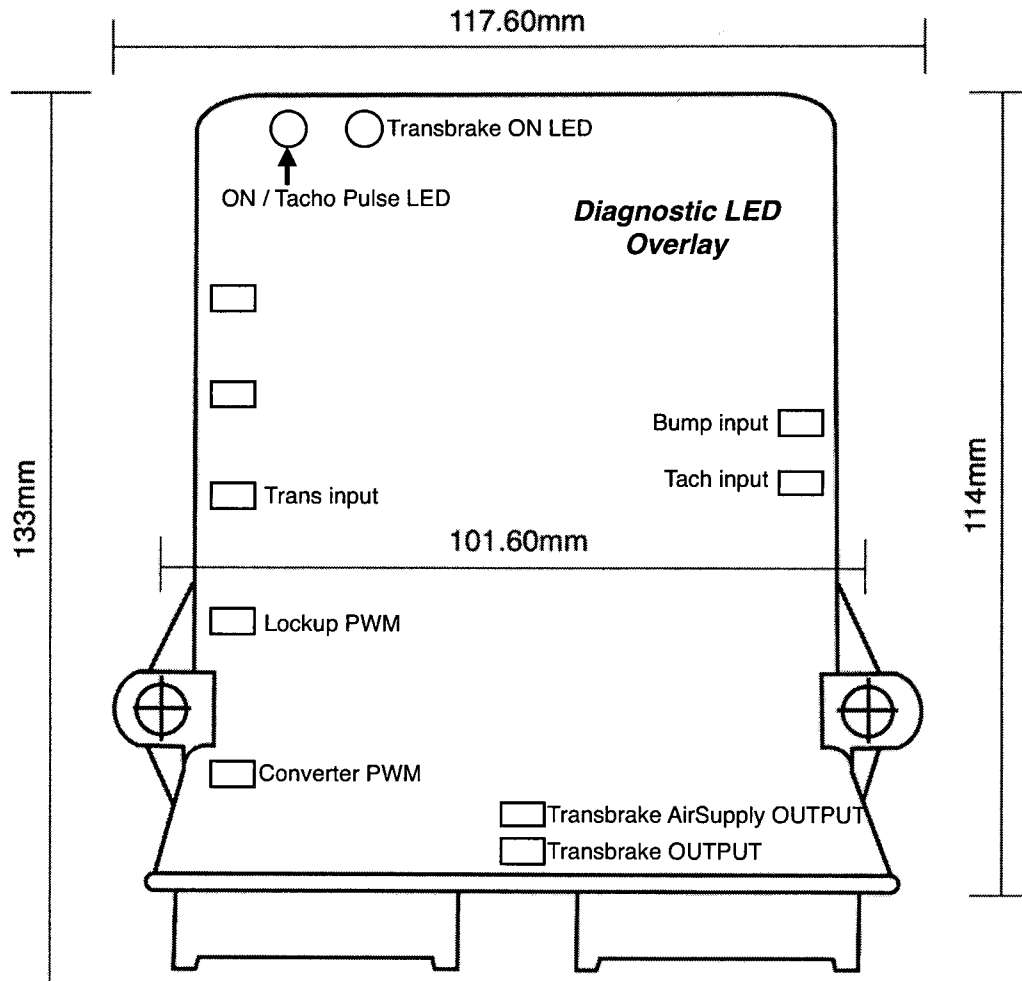
## ***DaTa\_1***

<b>Data 1_01</b>	Displays real time live data for - Lock Press, Conv Press, RPM CRK, Oil Temp
<b>Data 1_02</b>	Displays real time live data for - Lock, Conv, Oil Temp, Timer
<b>Data 1_03</b>	Display LOG Minimum/maximum for Lock and Conv
<b>Data 1_04</b>	Display LOG Minimum/maximum for R.P.M. & Oil Temp

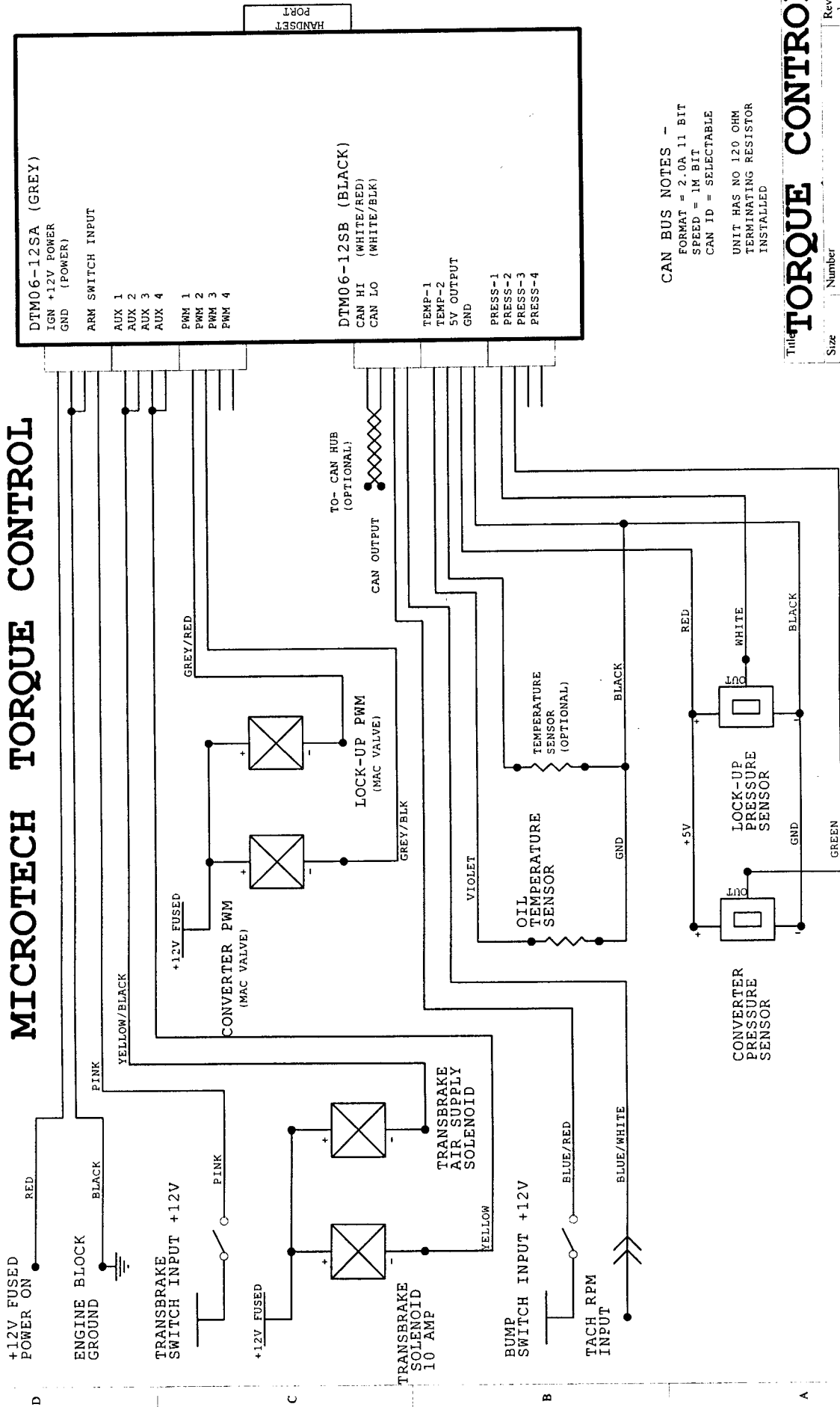
## ***MicroTech Auto Screen***

<b>Save to memCAL#1</b>	<p>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.</p> <p>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.</p>
<b>Save to memCAL#2</b>	
<b>Save to memCAL#3</b>	
<b>Save to memCAL#4</b>	
<b>LOAD memCAL #1</b>	
<b>LOAD memCAL #2</b>	
<b>LOAD memCAL #3</b>	
<b>LOAD memCAL #4</b>	
<b>*ReSET Settings*</b>	Factory Use Only

# Torque Control Diagrams



# MICROTECH TORQUE CONTROL



**CAN BUS NOTES -**  
 FORMAT = 2.0A 11 BIT  
 SPEED = 1M BIT  
 CAN ID = SELECTABLE  
 UNIT HAS NO 120 OHM  
 TERMINATING RESISTOR  
 INSTALLED

Title: **TORQUE CONTROL**

Size	A4	Number	1	Revision	1
Date	13-Apr-2016	Sheet of	1	Drawn By	LOM
File	C:\ADV\SCHTORQUE_1_S01				