

KEY ON

L8010:  
 Setup CPU Registers  
 Setup External Timers  
 Setup RAM and EEPROM  
 Setup Serial Interface  
 Read MAP ADC  
 Compute Altitude Compression  
 Turn On Fuel Pump  
 Reset COP Timer  
 Clear Timer Interrupts

Re-Enter here if Motor Stops or Ign Trigger Handler can't determine Edge

L812A:  
 Setup Ignition Interrupt  
 Setup System Timer  
 Reset COP Timer  
 Clear RAM Stashes  
 Injector Timing  
 Spark Angle  
 IGN and SA flags  
 Timing Periods  
 #1 Cylinder Detector  
 Injector Pulse Width

Ever had an IGN Trig Pulse ?

Fire the Coil at OC4 compare  
 Flag if RPM > 4500 RPM

L817E:

Enable All Interrupts

L8182:  
 Ever had an IGN Trig Interrupt ?

Interrupts Off

MAT and COOL ADCs Read Last ?

Reset COP Timer  
 Read MAT and COOL ADC's  
 Interrupts On  
 Linearize COOL ADC  
 Limit COOL if Error  
 Linearize MAT ADC

Reset COP Timer  
 Read O2, TPS, BATT, and MAP ADC's  
 Interrupts On  
 Altitude Correct MAP ADC  
 Compute Air Density  
 Check for Sensor Errors  
 Assure Rev Limiter Range  
 If Requested Xsmit Serial Data  
 Save/Restore Dataset if requested

L8206:  
 Flag if COOL over 120 deg  
 Flag if Hot Restart  
 Flag if COOL over 60 deg

L82F7:  
 Been over 780ms since an IGN Trig ?

Reset COP Timer

Motor Turning ?

Read MAP ADC

Motor Started ?  
 (Above 610 RPM)

Thru Calibration Yet ?

Seed Revolution Counter

Below 450 RPM or IGN Trig Event ?

Clear Altitude Correction

L8343:  
 Setup IAC Motor to 150Hz  
 Setup TPS Idle Threshold  
 Ign SA Amp Off  
 Fire the Coil in 30us  
 Setup COOL determined Dashpot Idle RPM

Fall into the Main Calibration Run Loop at L83AF: Will Not ever run this code again as long as motor keeps running.