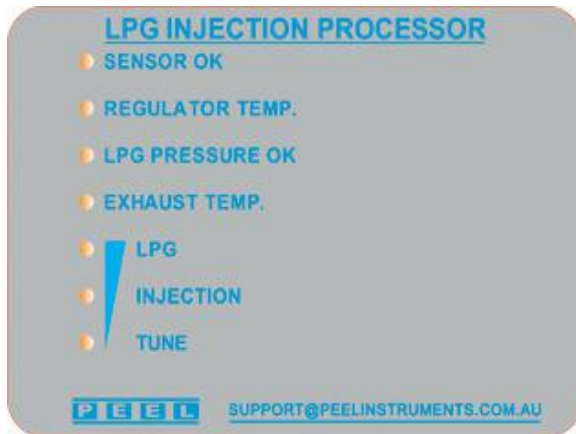


Start with a cold engine

Set water temperature below 40 deg .C

C/RAIL UNIT - Listen for a single beep / double beep – Single/Double pulse feature ok

Wait for self test to finish.

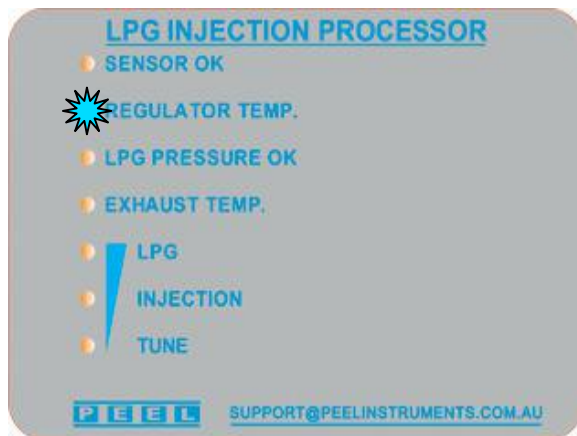


TTaco Only

No Lights at all after self test

=No Tacho Pulse found

=



1

Water is below 40 deg. C

Regulator Temp. Light will turn on while testing the Thermocouple...

Increase water temperature slowly until REGULATOR TEMP led stops flashing .

Checks Open circuit of the TK connection within 2 seconds .

Pass = 1 chirp Fail = Long Beep with Exhaust Temp Light

Checks Short circuit of the TK connector within 2 seconds .

Pass = 1 chirp Fail = Long Beep with Exhaust Temp Light

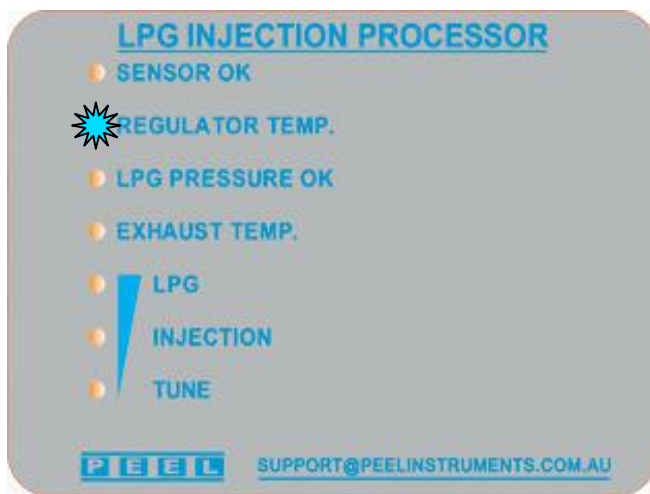
2



TK Fault with slow beep.

Thermo couple test PASSED .

3

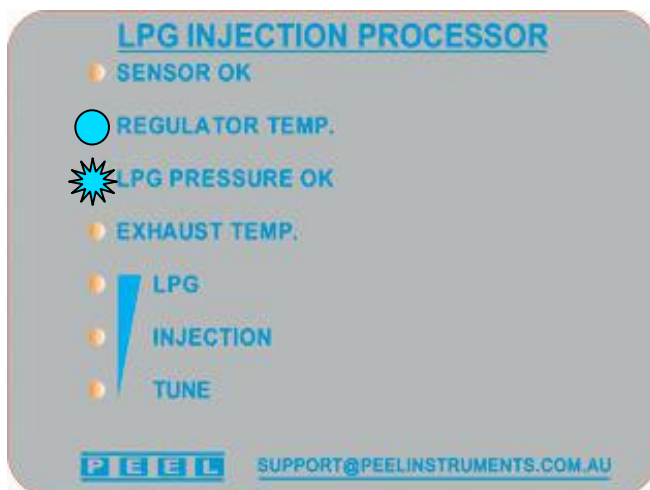


Will return to a flash while temp increases to above 40 deg. C

Water is below 40 deg. C

Increase water temperature to above 40 deg. C

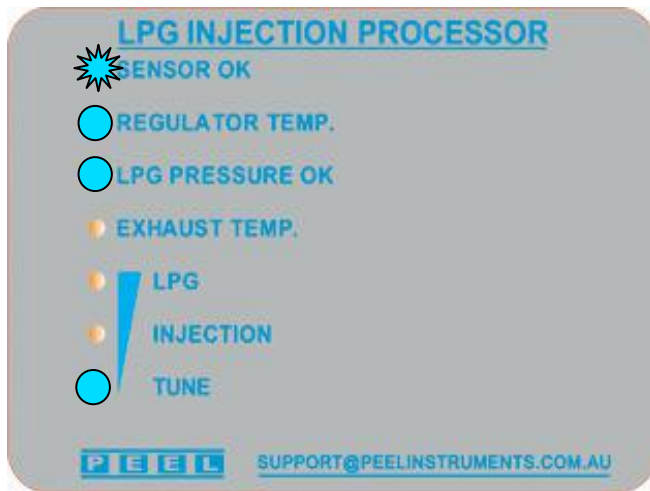
4



Prime LPG regulator for 1 second

Observe the idle operating mode .

5



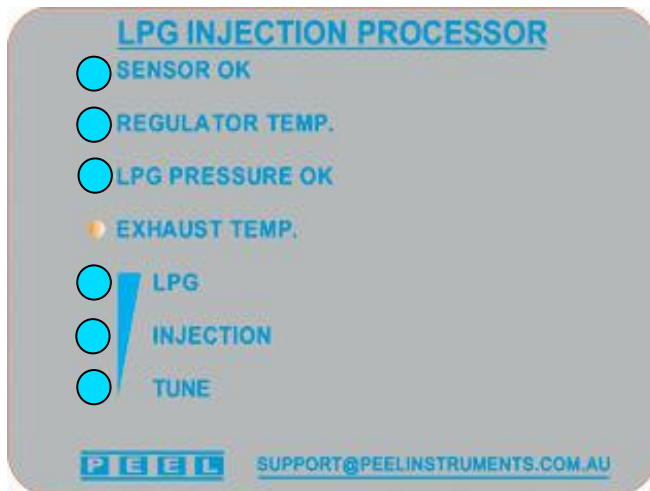
TTaco software won't hold power to L/OFFs initially until LPG Injection begins

Ready at idle

Safe

Increase the RPM until LPG injection begins.
Observe the normal LPG injection operation.

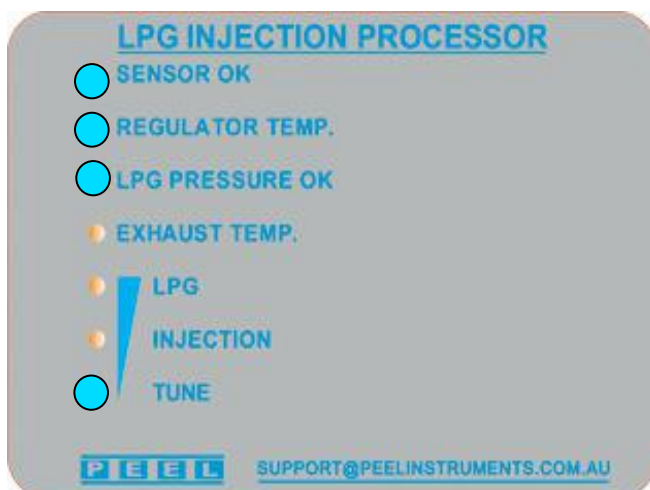
6



Injecting LPG !

Increase the RPM until LPG injection stops.
Observe the ready at maximum RPM operation.

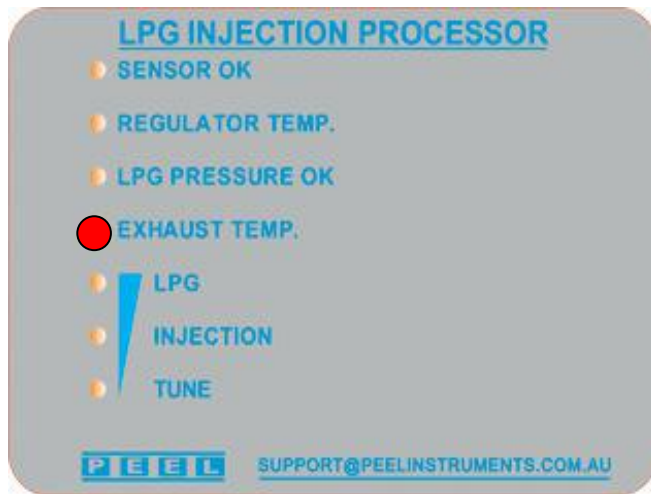
7



Ready at maximum RPM

Safe

Decrease the RPM until normal LPG injection returns.



8

Exhaust gases above 550deg. Safe

Some Faults/Errors

EGT Open Circuit

Indicates same as EGT over temp (see 8. Above)

Exhaust gases cold or EGT Short Circuit

TTaco = Toggle between Exhaust Temp. & All Blue Lights

CRail = All Lights on (they will flicker more as the temp gets closer to running temp.)

When driving if Lock/Offs are clicking ON & OFF - this indicates a fracture in the thermocouple wire. Check the installation into the connector.

Replace thermocouple if required ensuring there is ample slack between the exhaust and the first fixing point of the cable as well as the factory spring and loop is in place to absorb the constant vibrations

LPG Pressure Fault (At idle)

2 Beeps/Flashes = Low Pressure

5 Beeps/Flashes = High Pressure

2 Beeps followed by 5 beeps = LPG Pressure is a long way out of specification
Check wiring & pressure

No Power to Lock Offs but Regulator Temp Light is ON = Check LPG Pressure

If pressure is very low, Lock Off's will be switched off then primed every 30 seconds until the correct pressure voltage is found