## Groups/STANDARD MAPPING/FUEL CORRECTIONS/FUELING DURING STARTING:

Injection Start Angle in Crank: 0.25 to 720.00 degrees

During cranking, injection pulses are timed to start at a fixed engine angle



## Groups/STANDARD MAPPING/FUEL CORRECTIONS/FUELING DURING STARTING/SINGLE CALIBRATIONS:

Preliminary Injection: Decimal 0.000 to 262.140 milliseconds

The "Preliminary Injection" is a single fuel pulse that is injected by all primary injectors as the engine start to turn. It is used to wet the inlet manifold walls.



#### Base Fuel in Crank: Decimal 0.000 to 30.000 milliseconds

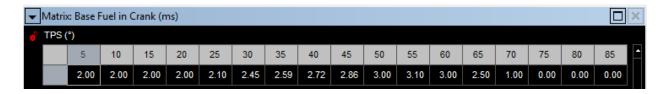
This map is used to determine the base fuel time when the engine is cranking. Once the engine speed exceeds the "Crank Exit Speed" the ECU switches to RUN mode and obtains its fuelling from the "Base Fuel Map".

The current value can be viewed as "inj\_t\_base" on the dashboard. #line 4858 "desc.c"

## Base Fuel in Crank: 0.00 to 30.00 milliseconds

This map is used to determine the base fuel time when the engine is cranking. Once the engine speed exceeds the "Crank Exit Speed" the ECU switches to RUN mode and obtains its fuelling from the "Base Fuel Map".

The current value can be viewed as "inj\_base" on the dashboard.



# Cranking Multiplier: Decimal 0.00 to 16.00

This multiplier is used to correct the base fuel time whilst the engine is cranking. The Cylinder Count axis on the map is used to give a bigger correction when the engine initial starts to turn and to enable this correction to decay away as the inlet becomes wet.

Example values:

1.050 - gives 5% increase 1.000 - gives no change 0.950 - gives 5% decrease

The current value can be viewed as "inj\_m\_crank" on the dashboard.

