

Short Term Fuel Trim Settings

- **Enabled:** Activates the closed-loop correction system.
- **Startup delay:** Sets the delay (in seconds) after startup before the correction begins.
- **Minimum CLT for correction:** Sets the minimum coolant temperature (in °C) required to start corrections.
- **Minimum AFR for correction and Maximum AFR for correction:** Define the AFR range within which corrections will be applied.
- **Adjustment deadband:** Specifies a threshold within which no corrections will be made to avoid minor fluctuations.
- **Ignore error magnitude:** Accepts a numerical value, typically set to 0. This value controls how much AFR error is ignored before corrections are applied, helping to smooth out minor fluctuations.

Short term fuel trim

File View

Indicators

Short term fuel trim

Enabled true

Startup delay(seconds) 30

Detect Tuning and Suspend(seconds) 0

Minimum CLT for correction(C) 5

Minimum AFR for correction(afr) 10.0

Maximum AFR for correction(afr) 20.0

Adjustment deadband(%) 0.2

Ignore error magnitude false

Region Configuration

Idle region RPM 1350

Overrun region load 30

Power region load 120

Idle Region

Time const(sec) 5.00 Max add(%) 20 Max remove(%) -20

Overrun Region

Time const(sec) 10.00 Max add(%) 10 Max remove(%) 0

Power Region

Time const(sec) 0.50 Max add(%) 20 Max remove(%) -20

Main Region

Time const(sec) 0.60 Max add(%) 20 Max remove(%) -20

Enables lambda sensor closed loop feedback for fuelling.

Burn Close

Region Configuration allows customization of RPM and load thresholds for Idle, Overrun, and Power regions:

- **Idle region RPM:** Defines the RPM considered as the idle threshold.
- **Overrun region load and Power region load:** Set load limits to differentiate between normal operation, deceleration (overrun), and high load (power) conditions.

Each region (Main, Idle, Power, Overrun) has specific time constants and maximum add/remove percentages:

- **Time constant:** Controls the responsiveness of corrections, with lower values resulting in faster adjustments.

- **Max add/remove:** Limits the maximum fuel adjustment in either direction (adding or removing fuel) to prevent excessive correction.

These settings allow for tailored fuel correction, maintaining optimal AFR across different operating conditions.