

Ignition Button in TS

Ignition Dropdown Options

The Ignition dropdown offers multiple configuration options for tuning various ignition-related settings in the ECU.

Here's a breakdown of each option:

1. Ignition Settings: Primary configuration settings for ignition, including the type of ignition system and any specific settings related to timing control.

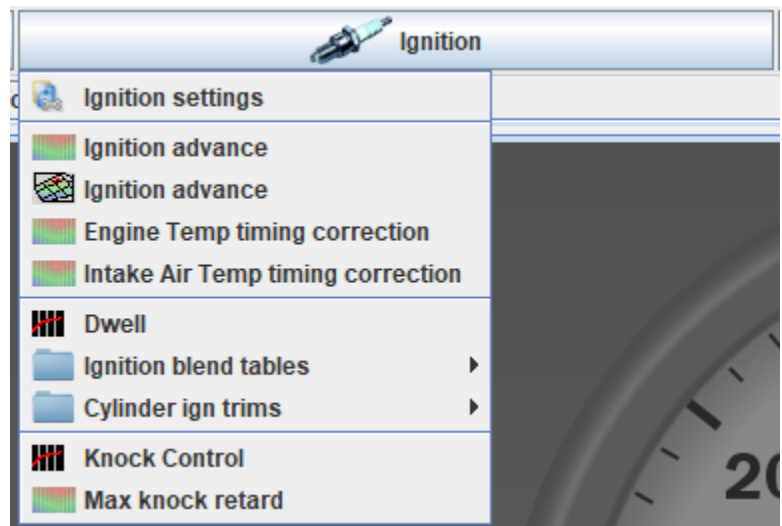
2. Ignition Advance: Adjusts the ignition timing advance table based on engine load (measured in kPa or throttle position) and RPM. This table typically has values representing degrees of timing advance, which can vary across different load and RPM conditions.

3. Engine Temp Timing

Correction: Allows timing adjustments based on Coolant Temperature (CLT). This correction is useful for optimizing ignition timing based on engine temperature, particularly to prevent detonation when the engine is running hot.

4. Intake Air Temp Timing Correction: Adjusts timing based on Intake Air Temperature (IAT), compensating for changes in air density that can affect combustion efficiency and engine safety.

5. Dwell: Controls the dwell time, which is the amount of time the ignition coil is energized before firing. Proper dwell time can help optimize spark strength and protect the ignition coil from overheating.



6. Ignition Blend Tables: Used to create custom tables that blend ignition timing values based on certain conditions or parameters, which can be useful for advanced tuning scenarios.

7. Cylinder Ign Trims: Allows individual cylinder ignition timing adjustments. This feature is useful to fine-tune each cylinder independently for optimal performance and to account for any variances in cylinder behavior.

8. Knock Control: Configuration for knock detection and response. This setting allows you to adjust sensitivity and response to knock events, potentially adjusting timing to prevent engine damage.

9. Max Knock Retard: Sets the maximum degree of timing retardation allowed in response to detected knock. This helps protect the engine by reducing timing aggressively if knock is detected within safe limits.

Each of these options provides specific control over different aspects of the ignition system, allowing you to tailor the ignition timing and behavior to meet the performance, efficiency, and safety requirements of your setup.