Ignition Timing Sync Wizard

The purpose of the Ignition Timing Sync Wizard is to ensure that the ignition timing measured at the crankshaft matches the Ign Timing channel displayed by AEMTuner.

Ignition Timing

Lock the timing in the EMS to match the timing mark on the vehicle¡¯s crankshaft pulley, then use a timing light to verify that the timing displayed by the EMS is accurate.

Ignition Timing Locked

☑ Lock Ignition Timing at 10.1 Degrees BTDC.

Sync Adjustment

Using the Increase and Decrease buttons will adjust the Ignition Sync and change the timing measured at the crankshaft.

When the Ignition Sync is correct, the timing at the crankshaft will match the timing displayed by the Ign Timing channel.

Advance Timing		Retard Timing	
◀◀ Large	◀ Small	Small ▶	Large ▶▶

☑ Show Advanced Options

Advanced Options

The Pickup Delay Comp option is used to compensate for miniscule delays inherent in the vehicle's timing inputs and ignition outputs.

If the timing at the crankshaft is accurate at low RPM but there is a discrepancy at high RPM, adjust the Pickup Delay Comp value until ignition timing is accurate at high RPM. Pickup Delay Comp is often a smaller number for optical timing sensors and a larger number for magnetic or hall-effect sensors.

Ignition Sync: 22.121 teeth

Pickup Delay Comp: 149.6 µSec