

GM 6.5L DS Injection Pump + PMD Installation Tips



DS Injection Pump DT650003R + DT650004R

With the age of these vehicles there are many issues that affect the operation of the injection pump.

1. Replacement of the rubber hose from the fuel filter to the injection pump is recommended. Many of these hoses are breaking down on the inside diameter, shedding rubber particles that enter the injection pump and plug its inlet filter.
2. Remove the injection pump wire harness in the engine valley, inspect the wiring for worn insulation and check all connectors. Most harnesses will require repairs.
3. No start or start and die conditions can be caused by the vehicle's anti-theft system. Check the VDT parameters with a scan tool while cranking the engine.
4. Stepper motor DTC 034 and P0216 are commonly caused by a bad crankshaft sensor (CKP) or wiring. Perform a snap acceleration of the engine to check the stepper motor for movement, if there is movement the motor is "ok".
5. TDC offset error DTC 088 or P1214 are commonly caused by a bad crankshaft sensor (CKP) or wiring. To perform the TDC offset learn, the injection pump base timing must first be set.

PMD (Pump Mounted Driver) DT650005

DTech does not recommend removal of the PMD from a DTech remanufactured pump to allow the PMD to be remote mounted.

1. The DTech PMD has been designed with components and potting material with temperature ratings higher than the vehicle operating under hood temperatures.
2. Remote mounting usually results in an increase in the PMD operating temperature vs. the pump mounted operating temperature.
3. Problems with the remote mounting commonly lead to an incorrect diagnosis of an injection pump or PMD problem, resulting in a significant number of no trouble found (NTF) product returns.
4. The PMD is on a quad driver circuit. False PMD failures often are caused by issues with the other items on that circuit or the related wiring harness and connectors. The PMD circuit includes the EGR vent and control solenoids, turbocharger wastegate control solenoids and transmission solenoids.

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