



Countries: CANADA, UNITED STATES, MEXICO, PUERTO RICO
Availability: ISIS, FleetSIS
Major System: ENGINES
Current Language: English
Other Languages: NONE
Viewed: 6042

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Coding Information

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Title: 2007 & 2010 Model Year MaxxForce DT, 9, 10 CPA or Buzz Test Showing Three (3) Failed Injectors

Applies To: 2007 & 2010 MaxxForce DT, 9, 10

THE FOLLOWING PROCEDURE HAS BEEN ADDED TO THE DIAGNOSTIC MANUAL. REFERENCE FAULT CODE DIAGNOSTICS BELOW UNTIL FCAP IS UPDATED. THIS IKNOW WILL BE RETIRED IN 60 DAYS (9/20/2015).

[SPN 2797 FMI 3 - Injector Control Group 1 open coil short](#)
[SPN 2797 FMI 4 - Injector Control Group 1 close coil short](#)
[SPN 2798 FMI 3 - Injector Control Group 2 open coil short](#)
[SPN 2798 FMI 4 - Injector Control Group 2 close coil short](#)

DESCRIPTION

The I6 injectors are controlled in two different banks or groups: 1, 2, 3 and 4, 5, 6. Internally shorted or open injector coils can cause one of these banks/groups to drop out. In cases where the CPA tool or buzz test indicates problems with cylinders 1, 2, 3 or 4, 5, 6, the cause is most likely one injector, open or shorted, disabling the bank/group.

The KOEO Injector Test cycles all injectors for two seconds and then pauses for one second. Each single injector will then cycle for one second, with a one second pause between injectors. This sequence starts with cylinder location 1, and proceeds to cylinders 2, 3, 4, 5, and 6.

The injector cycle or "buzz" sound is produced by the rapid side-to-side movement of the spool valve, inside the injector assembly.

NOTE: A WAC code will not be generated for this failure mode. For this failure mode, a WAC or a tech services approve case file is not needed to replace the 1 injector that is causing a bank of injectors to not operate. For warranty claim payment, all that is needed is the failed injector resistance readings (see chart below)

SYMPTOMS

- Misfire
- Low Power
- Fuel Knock
- ICP deficiency
- Crank No Start

TROUBLESHOOTING

1. Run KOEO Standard Test
2. Run KOEO Injector Test
3. As each injector cycles, note any injectors that:
 - Do not rapidly cycle (buzz).
 - Make a single or few "clicks" and stop.

Open coil circuit resistance:	_____ Ohms
Closed coil circuit resistance:	_____ Ohms
Open coil circuit to ground (injector body):	_____ Ohms
Closed coil circuit to ground (injector body):	_____ Ohms
Open coil circuit to closed coil circuit:	_____ Ohms

Possible Injector Bank Issues



Referred to as Bank A on 2007 and Group 1 on 2010



Referred to as Bank B on 2007 and Group 2 on 2010

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Feedback Information

Viewed: 6041

Helpful: 83

Not Helpful: 3

Staff ID	Client ID	Comments	Created Date
	DYYGXDS	You received the following feedback From: dyygxds - Glen Dubeau Email Address: gdubeau@tereckdiesel.com Job Classification: SE006, Service Foreman Dealer: TERECK DIESEL LTD Feedback: the injector coil resistance form appears to be placed on top of several troubleshooting steps	7/22/2015 3:00:45 PM

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