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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

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.

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:
 - o Do not rapidly cycle (buzz).
 - o Make a single or few "clicks" and stop.
 - o Are faint in sound as compared to the other 5 injectors
 - o Exhibit an irregular or inconsistent rhythm.
 - o Are activated out of order; the correct order is cylinder one (1) through cylinder (6) sequentially.
4. Remove valve cover.
5. Unplug the first injector in the bank where the defect is suspected.
6. Run the injector buzz test. If the remaining two injectors from that bank buzz, the unplugged injector has failed.
7. If the injectors still do not buzz, plug the injector back in and continue to unplug injectors, from that bank, one at a time until the failed injector is found.

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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