

Engine - Spark Knock on Light Load/Acceleration

[Notes](#)

TSB 07-16-17

08/20/07

SPARK KNOCK UNDER LIGHT LOAD AND
ACCELERATION - 3.8L, 3.9L, AND 4.2L - SPLIT PORT
INTAKE MANIFOLD RUNNER CONTROL (IMRC)

FORD:

2001-2004 Mustang
1996-2003 Windstar
1997-2003 E-150
1997-2008 F-150
2004-2007 Freestar

MERCURY:

2004-2007 Monterey

ISSUE

Various vehicles equipped with a 3.8L, 3.9L or 4.2L engine and Split Port IMRC may exhibit spark knock under light load and acceleration.

ACTION

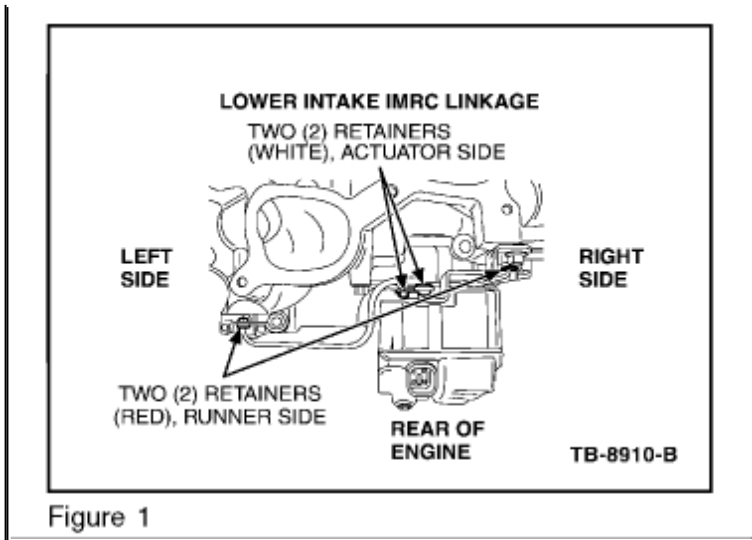
Follow the Service Procedure steps to correct the condition.

SERVICE PROCEDURE

Inspect for disconnected IMRC actuator rods.

1. Check both right hand and left hand side IMRC rods are properly attached to the actuator motor and intake manifold runner.
2. If the IMRC actuator rods are found to be connected properly, do not continue with this TSB. Refer to Powertrain Control/Emission Diagnosis Manual.
3. If any IMRC actuator rods are disconnected, refer to Workshop Manual (WSM), Section 303-14 for IMRC service.





Zoom

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4. If any IMRC actuator rod linkages are found disconnected, replace all four (4) linkage rod retainers. (Figure 1