

November 2016

**Subject**

Spark Plug applications, 2010 to 2015 Ford vehicles equipped with the 3.5L V6 Ecoboost

**Vehicles / Models Affected:**

- 2010, 2011 Ford Taurus, Flex
- 2010, 2011 Lincoln MKT, MKS
- 2010 to 2015 Ford F150

**Background**

Some 2010-2013 F-150 pickup, Flex / MKT, Taurus / MKS vehicles built on or before 6/15/2013 and equipped with a 3.5L Gasoline Turbocharged Direct Injection (GTDI) engine, may exhibit rough running, hesitation, shuddering with misfire symptoms accompanied by the following diagnostic trouble codes (DTCs) P0300, P0301, P0302, P0303, P0304, P0305, P0306 and/or P0316 stored in the powertrain control module (PCM).

**Issue**

The original spark plug applications and gap specifications followed these supersessions:

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| <p>- Ford P/N CYFS-12-F3 (Motorcraft SP-512-A) 0.038" (0.965mm) gap<br/><b>NGK Recommendation: Part # LTR6AI-9 (Stock # 96780)</b></p> <p><i>Changed to...</i></p> <p>- Ford P/N CYFS-12-Y3 (Motorcraft SP-528) 0.038" (0.965mm) gap<br/><b>NGK Recommendation: Part # LTR6AI-9 (Stock # 96780)</b></p> <p><i>Changed to...</i></p> <p>- Ford P/N CYFS-12-YT3 (Motorcraft SP-534) 0.032" (0.813mm) gap<br/><b>NGK Recommendation: Part # LTR6CI-8 (Stock # 97177)</b></p> |
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Ford released TSBs 11-8-19 and 14-0180 pertaining to misfire diagnosis as per the background above. The TSB addressed the inspection of the spark plugs for signs of carbon tracking and if present, recommended the replacement of both the spark plugs and spark plug boots.



## Solution

This solution pertains to any vehicle/model listed above with the appropriate background and identified issue.

**1. Use NGK-recommended Spark Plug LTR6AI-9 (Stock # 96780)**

And...

**2. Use NGK-recommended Spark Plug Boot CPB-FD013 (NGK Stock # 58978)**

## Additional Information:

For further information or assistance, please call NGK Technical Support (toll free) at:

**USA: 877-4Sensor (877-473-6767)**

**Canada: 877-2Sparky (877-277-2759)**

