

August 16

Topic

Spark Plug applications, 2010 to 2013 Ford vehicles equipped with the 3.5L V6 Ecoboost

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 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).

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

- | |
|--|
| - Ford P/N CYFS-12-F3 (Motorcraft SP-512-A) 0.038" (0.965mm) gap |
| - NGK Recommendation: Part # LTR6AI-9 (Stock # 96780) |
| - |
| Changed to... |
| - Ford P/N CYFS-12-Y3 (Motorcraft SP-528) 0.038" (0.965mm) gap |
| - NGK Recommendation: Part # LTR6AI-9 (Stock # 96780) |
| Changed to... |
| - Ford P/N CYFS-12-YT3 (Motorcraft SP-534) 0.032" (0.813mm) gap |
| - NGK Recommendation: Part # LTR6CI-8 (Stock # 97177) |

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

Please note that TSB 14-0180 recommends the use of Ford P/N CYFS-12-Y3 (Motorcraft SP-528) for all applications from 2010-2015 using the NGK LTR6CI-8 with 0.032" (0.813mm) gap

CPB-FD013 (NGK Stock # 58978)

