

# SERVICE BULLETIN



M-1185

February 20, 2006

## FUEL INJECTOR/CALIBRATION CHANGES FOR 2006 1450cc BIG TWINS

### Purpose

It has recently been determined that the 8° angle cone spray fuel injectors used on 2006 1450cc Big Twins may cause cold start and/or driveability problems on some motorcycles.

In the interest of promoting customer satisfaction, the 25° angle cone spray fuel injectors used on CVO 103 cu. in. (1690cc) motors will be installed on all production Big Twins beginning on or around February 13, 2006.

Additionally, Harley-Davidson will provide for the installation of 25° angle cone spray fuel injectors on those motorcycles where use of the 8° fuel injectors (part number 27625-06) is determined to be directly responsible for cold start and/or driveability problems. See REQUIRED DEALER ACTION.

#### NOTE

Due to changes in the manufacturing process, the part number of the 25° angle cone spray fuel injector is changing from 27709-06 to 27709-06A. This fuel injector also will be stamped with the words "25 DEG" for easy identification. See Figure 1.

### Motorcycles Affected

Only 2006 1450cc Big Twin model motorcycles that exhibit cold start and/or driveability problems directly related to use of 8° angle cone spray fuel injectors (including those subsequently equipped with P&A Screamin' Eagle 1450cc or 1550cc Performance Kits).

### Required Dealer Action

1. Adhere to the flow chart in Figure 2 when handling customer complaints regarding cold start and/or driveability problems on affected motorcycles.
2. If the flow chart indicates that the fuel injectors are the source of the problem, check the part numbers stamped on the fuel injectors. While standing on the left side of the motorcycle, the part number on the rear fuel injector can be easily read with the aid of a flashlight.
3. If required, remove both 8° angle cone spray fuel injectors following the procedure in the applicable 2006 Service Manual. Install 25° fuel injectors, either part number 27709-06 or 27709-06A.

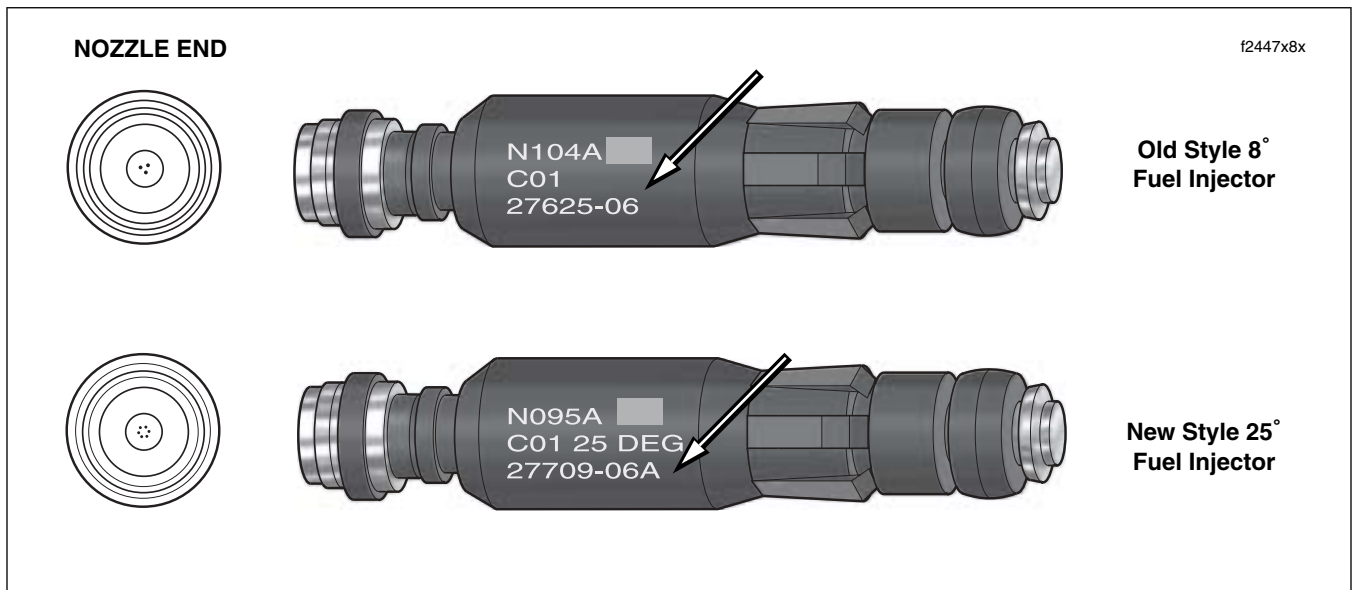


Figure 1. Fuel Injector Part Numbers

#### IMPORTANT NOTE

In the interest of preserving customer safety and satisfaction, always check for outstanding recalls whenever any motorcycle is brought into your dealership for either maintenance or service.

ROUTING	SERVICE MANAGER	SALES MANAGER	PARTS MANAGER	LEAD TECHNICIAN	TECHNICIAN NO.1	TECHNICIAN NO.2	TECHNICIAN NO.3	TECHNICIAN NO.4	RETURN THIS TO
INITIAL HERE									

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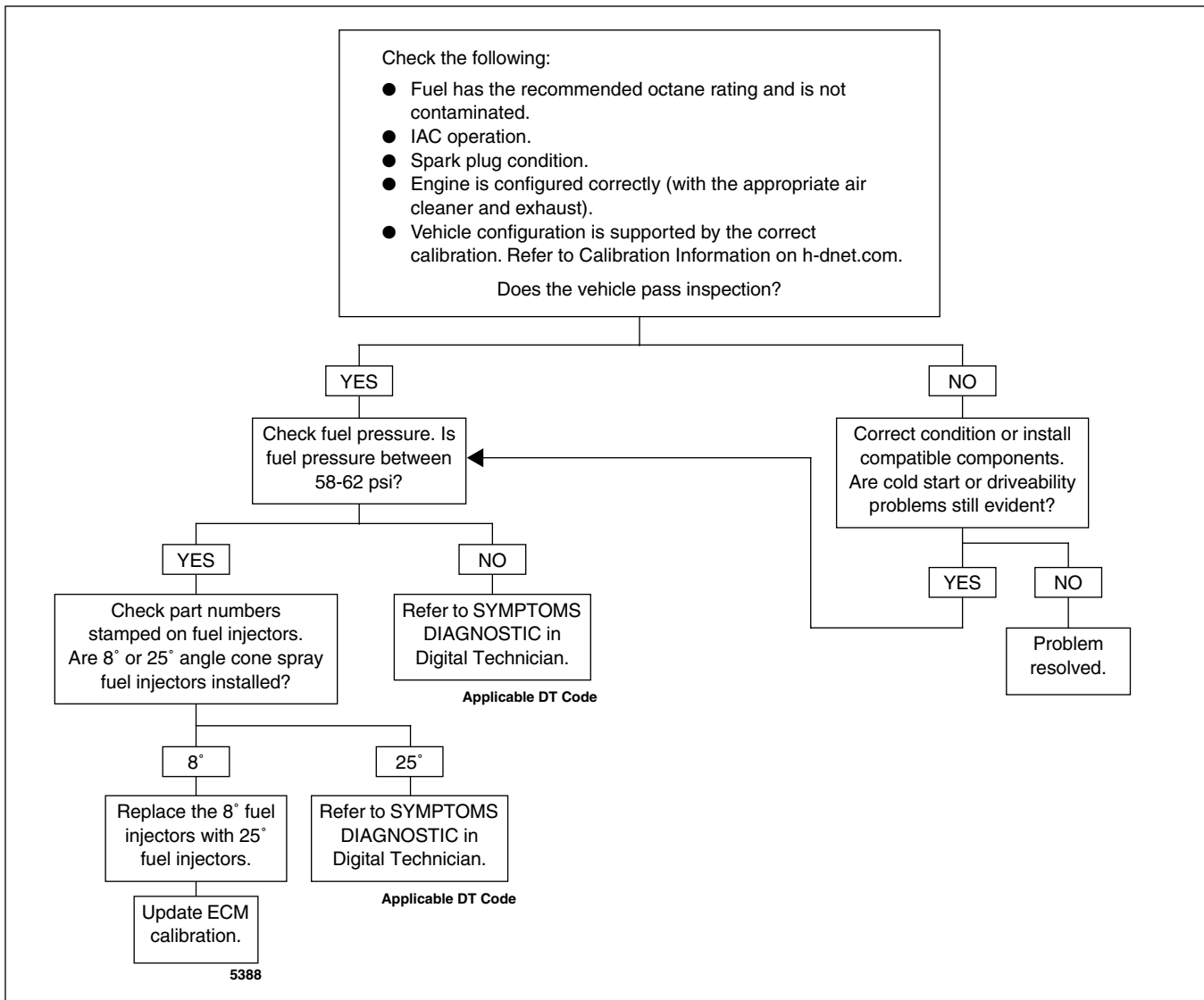


Figure 2. Cold Start/Driveability Flow Chart

**NOTE**

Always replace both 8° angle cone spray fuel injectors on affected motorcycles. Never mix 8° and 25° fuel injectors on the same motorcycle.

**NOTE**

If the part numbers on the fuel injectors are rubbed off or otherwise unreadable, count the number of orifices or holes in the injector nozzle. The 8° angle cone spray fuel injector has just three holes, while the 25° has six. See NOZZLE END in Figure 1.

- Update the ECM calibration. For those motorcycles equipped with P&A Screamin' Eagle 1450cc or 1550cc Performance Kits, refer to h-dnet.com for the correct calibration P/N.

**Credit Procedure**

Complete a separate warranty claim for each vehicle serviced. Reference Service Bulletin M-1185 in the "Comments" or "Notes" section and be sure to include the VIN of the vehicle on which the service was performed. Fill in the rest of the claim as follows:

ENTRY FIELD	ENTER
Claim Type	PRD, MC
Problem Part No.	27625-06
Detail Part No.	27709-06 or 27709-06A
Quantity of Detail Part No.	2
Description	25° Angle Cone Spray Fuel Injectors
Labor Code	5388
Time	1.10 Hours
Customer Concern Code	9203
Condition Code	5388

Performance calibrations require pre-authorization from Technical Service to be considered for warranty coverage unless listed on the SWR.

Upon receipt of the properly completed claim, you will receive the labor credit shown above.