



U.S. Department
of Transportation
**National Highway
Traffic Safety
Administration**

ODI RESUME

Investigation: PE08-001
Date Opened: 01/08/2008 Date Closed: 05/09/2008
Principal Investigator: Kyle Bowker
Subject: Loss of Brake Power-Assist

Manufacturer: Ford Motor Company
Products: 2005-2006 Ford F-150 equipped with 5.4L V8 engine
Population: 584,992

Problem Description: Alleged loss of brake power-assist due to disruption of the brake booster vacuum supply hose assembly.

FAILURE REPORT SUMMARY

	ODI	Manufacturer	Total
Complaints:	21	308	324
Crashes/Fires:	0	14	14
Injury Incidents:	0	0	0
# Injuries:	0	0	0
Fatality Incidents:	0	0	0
# Fatalities:	0	0	0
Other*:	0	4,465	4,465

*Description Of Other: Warranty claims paid by Ford to repair or replace the subject brake booster vacuum supply hose.

Action: This Preliminary Evaluation has been closed. Recall 08V-208.

Engineer: Kyle M. Bowker KMB
Div. Chief: Jeffrey L. Quandt
Office Dir.: Kathleen C. DeMeter

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Summary: By letter dated May 5, 2008, Ford Motor Company (Ford) notified the agency that it will conduct a safety recall (NHTSA Recall Number 08V-208) to address a manufacturing defect in approximately 605,684 model year (MY) 2005 and 2006 Ford F-150 and Lincoln Mark LT vehicles originally equipped with the 5.4L displacement, 3-valve per cylinder, V8 engine. The recalled vehicles were built from July 18, 2004 through May 31, 2006 at Ford's Dearborn Truck Plant; from May 4, 2004 through May 31, 2006 at the Kansas City Assembly Plant; and from April 19, 2004 through May 31, 2006 at the Norfolk Truck Plant. The vehicles were manufactured with the same defective brake booster vacuum supply hose assembly unique to the 5.4L V8 engine. Ford F-150 vehicles equipped with optionally available 4.2L V6 and 4.6L V8 engines are not included in this recall action because they utilize a different, one-piece brake booster vacuum supply hose assembly that does not exhibit an apparent defect trend.

Summary continued on next page.

Summary continued from previous page:

The recalled vehicles utilize a two-piece brake booster vacuum supply hose assembly comprised of a standpipe assembly and vacuum hose. The standpipe assembly attaches to a fitting on the engine air intake manifold utilizing a flexible rubber hose and plastic elbow. The vacuum hose attaches to the opposite end of the standpipe assembly and connects to a check valve fitting at the brake booster assembly. According to Ford, the portion of the brake booster vacuum supply hose assembly attached to the intake manifold may swell over time and lose retention force, which may allow the hose to become detached from the intake manifold. Should the brake booster vacuum supply hose assembly be disrupted, application of the brake pedal may deplete the vacuum reserve and consequently result in loss of brake power-assist.

To correct the safety defect, Ford will install an improved design brake booster vacuum supply hose assembly that utilizes a hose clamp at the intake manifold attachment. This remedy will be provided free of charge for all recalled vehicles. Later production Ford F-150 and Lincoln Mark LT vehicles built after May 2006 were manufactured with a hose clamp at the brake booster vacuum supply hose/intake manifold attachment and are not affected.

To date, the Office of Defects Investigation (ODI) is aware of 324 non-duplicative complaints and 14 non-injury crashes related to the alleged defect in the subject vehicles. In addition, ODI is aware of 4,465 subject vehicles that experienced one or more warranty claims to repair or replace the subject brake booster vacuum supply hose assembly.

The action taken by Ford is sufficient to resolve the issues raised by this investigation. Accordingly, this investigation is closed.