

Tech Brief

Part Number: 8012636

Applications: 2008-2010 Ford F-250, F-350, F-450, F-550 Super Duty's 6.4L Diesel

Ford TSBs (Technical Service Bulletins)

Technical Service Bulletins (TSBs) provide recommended steps and procedures for repairing vehicles. A TSB is issued by Ford Service when there is a growing trend of unanticipated problems, but does not warrant a recall. For the vehicles associated with the radiator part number listed above, Ford has issued several TSBs concerning the vehicle's cooling system over the past couple of years. Below is a list of TSBs that you may want to review before changing your radiator.

TSB Number	Issue Date	TSB Title
08B06S2	August 2009	Campaign – Installation of Cooling System Venturi-Tee
11-12-4	December 2011	Cooling System - Radiator Leaking Coolant
10-12-1	July 2010	Cooling System - Water Quality For Cooling Sys. Flushing
10-7-5	April 2010	Cooling System - Flushing Procedure
09-23-1	November 2009	Cooling System - Repeat Radiator Leaks
09-8-5	May 2009	Cooling System - Coolant Maintenance Service Tips
08-5-14	March 2008	Cooling System - DTC's P0528/P0529 Set
07-11-5	June 2007	Cooling System - Vehicle Overheating (Snowplow Package)

**Ford TSBs are readily available online*

Ford Service has identified the need for the installation of the newly released Venturi Tee Service Kit **Ford P/N: 8C3Z8B379-B** on some 2008-2010 F-Super Duty vehicles equipped with a 6.4L engine when diagnostics lead to replacement of the Radiator. (Refer to Ford TSB 11-12-4 & 08B06S2)

APDI includes this Venturi Service Kit as part of our installation kit.

In some of the affected vehicles, the radiator may, over time, develop cracks from a reverse flow of cool air/coolant from the degas bottle to the hot radiator, possibly leading to a coolant leak. If ignored, the leak may progress and reduce the effectiveness of the cooling system, which may lead to overheating and potential damage.

It is important to note that correct installation and orientation of the Venturi Tee is critical for proper coolant flow and to avoid cooling system damage.

Warning: Always allow the vehicle's engine to cool before performing any updates on the cooling system. The cooling system is under pressure and unscrewing the coolant pressure relief

cap when the engine is operating or when the cooling system is hot can result in steam or hot fluid to escape from the radiator forcefully. Failure to follow these instructions can result in serious injury.

Venturi Tee Installation Instructions:

1. Locate the (2) vent hoses installed into the Degas Bottle (See Figure 1)
 - a. Upper Port – Radiator Vent Hose
 - b. Lower Port – EGR Vent Hose
2. Identify the Exhaust Gas Recirculation (EGR) vent hose at the Degas Bottle. Measure and cut hose 5” inches (127mm) from the end that attaches to Degas Bottle port. **Note:** Include hose bend in measurement (See Figure 2)
3. Measure and cut an additional 13/16” inch (20mm) off the EGR side of the hose that was just cut. (See Figure 3)
4. Install tension clamp, included with the Venturi Kit, onto the EGR hose still attached to the degas bottle. Locate the Venturi Tee and insert end labeled “DGAS” into this hose. (See Figure 4) **NOTE: Installed orientation of Venturi Tee is critical.**
5. Secure the Tee to the hose utilizing the tension clamp previously installed onto hose. Position the clamp so that clamp tabs are facing upward. (See Figure 5)
6. Install tension clamp, included with the Venturi Kit, onto EGR hose, Engine side, and insert end of Venturi Tee labeled "ENG" into EGR hose. Secure the Tee to the Hose utilizing the tension clamp previously installed. Position the clamp so that clamp tabs are facing upward. (See Figure 5)
7. Using the supplied tie strap, attach the radiator-to-degas bottle vent hose to the hole located on the edge of the power steering reservoir. Tighten and trim the tie strap so that the locking block of the tie strap is rotated under the vent hose.
8. Remove the radiator-to-degas bottle vent hose clamp and hose from the degas bottle upper port. Insert end of Venturi Tee labeled "RAD" into end of Radiator Vent Hose. Note: The “DGAS” end of the tee should be located towards the front of the vehicle. (See Figure 6)
9. Secure the Tee to the Hose utilizing the existing tension clamp. Position the clamp so that clamp tabs are facing upward. (See Figure 6)
10. Install supplied rubber cap and clamp assembly onto the upper port of the Degas bottle. (See Figure 6)

11. Verify that all hoses are fully seated onto the Venturi Tee ports and that all clamps are secured with the clamp tabs facing upward and away from the radiator hose



Figure 1

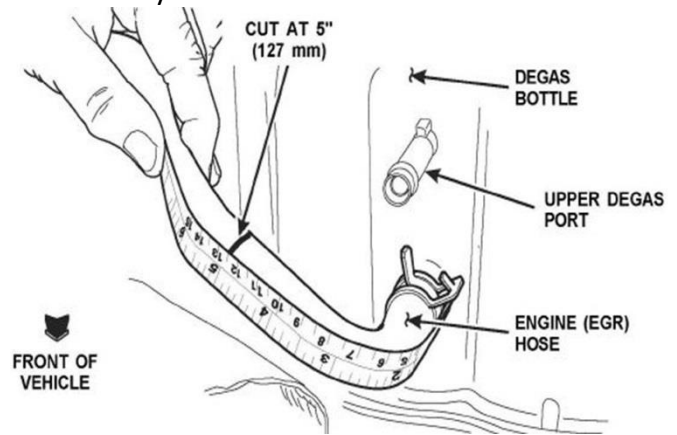


Figure 2

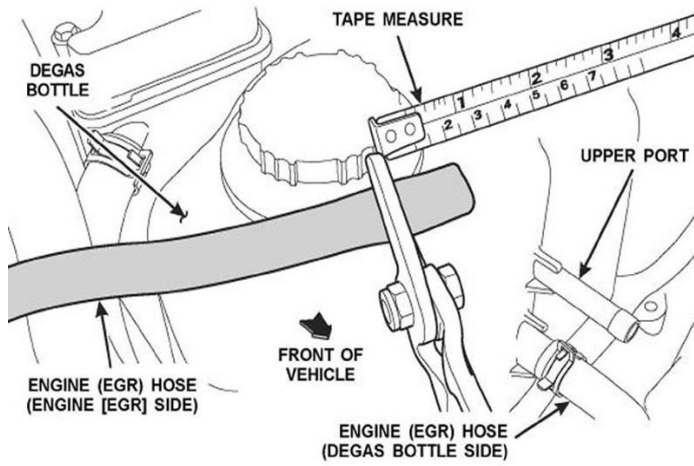


Figure 3



Figure 4

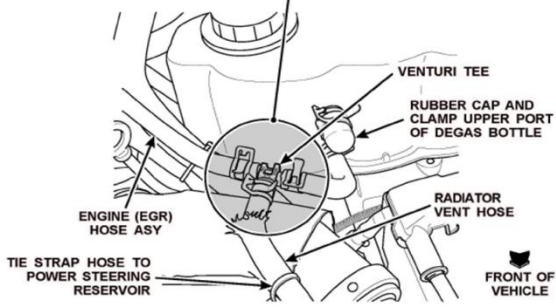
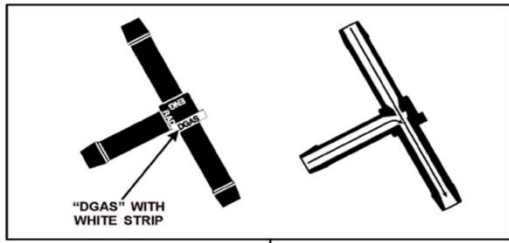


Figure 5

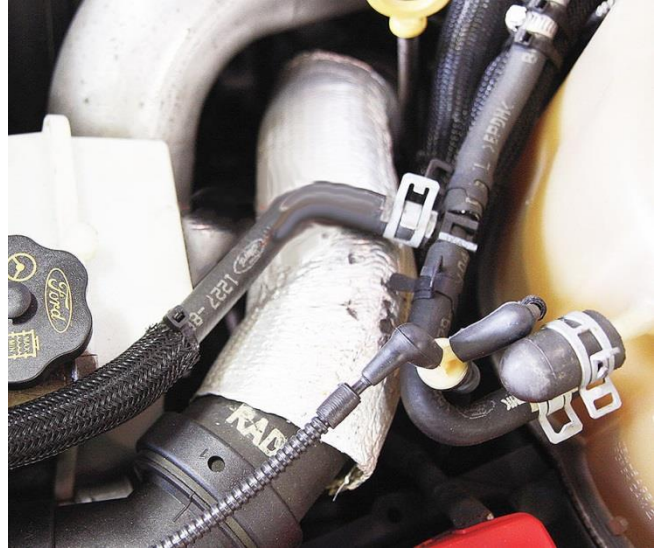


Figure 6