

TECH TIP

Group:	17-Intake and Exhaust
Bulletin No:	TT-15-013
Issue Date:	1-29-2015

HDT-650590 SPECIAL SERVICE TOOL USAGE PROCEDURE

SUBJECT VEHICLES: 08MY-16MY Conventional Trucks (238, 258, 268, or 338) and 13MY- Current COE (Cab over Engine) Trucks

OVERVIEW:

To provide a better determination of a DPF's internal condition, a Special Service Tool (SST) has been developed. An explanation of SST-HDT-650590 and a brief DPF inspection follows below.

Note: This procedure is provided as technical information and is not authorization for a warrantable repair.

DPF PHYSICAL INSPECTION PROCEDURE

1. Remove the DPF and visually inspect the exhaust side of the DPF.

Is there any soot present on the rear face of the DPF?

Yes – Replace the DPF

No – Step 2



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2. Inspect the engine side of the DPF/DOC (this will vary by the model year of the truck).

Are there any signs of melting or cracking on the DPF/DOC face?

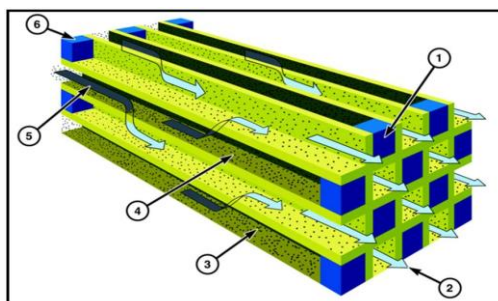
Yes – Replace the DPF/DOC.

No – Step 3



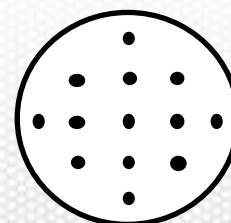
3. Using SST HDT-650590, probe the exhaust side of the DPF filter in the locations specified by the diagram.

Note: The SST HDT-650590 is checking for deterioration of the DPR passage way.



Does the SST reach the desired depth according to the model chart below?

Year and Model	Exhaust Side Depth
2008-2010 Conventional 2013 and up COE	9.3 inches +/- .51 inches (237.5 mm +/- 13 mm)
2011 and up Conventional	6.9 inches +/- .35 inches 175.9 +/- 9 mm



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Yes – Reinstall the DPF and Perform a Manual Regen.

No – Replace the DPF and Perform a Manual Regen.



REMINDER: A manual regen is only to be performed if the PM level is below 8g/l or after the DPF has been replaced or cleaned.

If the DPF PM level is above 5.2 g/l and below 8 g/l, divide the total g/l by 2, reset the soot level two times and perform two manual regenerations.

Example: PM level is at 6.0 g/l

Divide total by 2 ($6 \text{ g/l} / 2 = 3 \text{ g/l}$)

Reset PM level to 3.0 g/l and perform manual regen

Once complete, reset the PM level to 3.0 g/l again

Perform second manual regen



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