



Countries: CANADA, UNITED STATES, PUERTO RICO **Document ID:** IK1200940
Availability: ISIS, FleetISIS **Revision:** 11
Major System: ENGINES **Created:** 8/26/2013
Current Language: English **Last Modified:** 3/10/2014
Other Languages: NONE **Author:** Jon Pierce
Viewed: 3631

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Coding Information

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Title: SCR Fluid Filter Replacement

Applies To: Cummins ISX, Navistar N13 Diesel Exhaust Fluid System

DESCRIPTION

The Diesel Exhaust Fluid (DEF) filter should be replaced with an updated filter only on vehicles marked on the Service Portal in the Managed Repair Field "DEF Filter Replacement at Next Service". See example below:

Managed Repair Information			
Open Recalls:	No	Open AFCs:	1. 13913 TRANSMISSION OIL COOLER LINE REROUTE (Open)
Open MRCs:	DEF Filter Replacement at Next Service	Open MINs:	No

This is **not** a Proactive Repair. This service should be performed at the next scheduled service visit or PM. Vehicles should not be taken out of service unless scheduled to do so. Claims for this service may be filed under 01 warranty only.

TOOLS REQUIRED

Tools
Assorted Hand Tools

PARTS INFORMATION

Part #	Description	Qty.
2512428C91	Filter Update Kit	1

REPAIR PROCEDURE

1) Remove side skirt and side skirt mounting brackets if equipped to access DEF fluid tank .

DEF Head Assembly as Installed

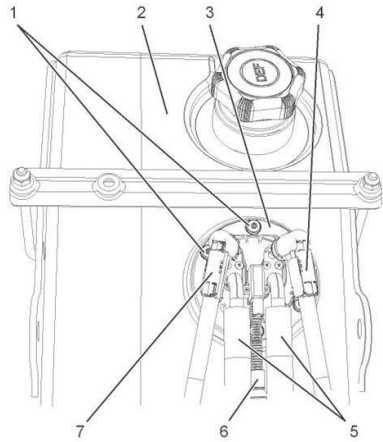


Figure 60. Diesel Exhaust Fluid (DEF) Tank Pickup Assembly

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1. Diesel Exhaust Fluid (DEF) tank pickup assembly toxic screw (6)
 2. DEF tank
 3. DEF tank pickup assembly
 4. DEF suction line
 5. DEF coolant line (2)
 6. DEF tank pickup assembly electrical connector
 7. DEF return line

2) Clamp off coolant lines

3) Disconnect Vent Line

4) Remove DEF Lines

- Squeeze sides of white quick release ring and lift quick disconnects off of stainless steel tubes

5) Remove Coolant Lines and label for ease of installation

- Loosen hose clamps
- Push Coolant lines off stainless steel barbs

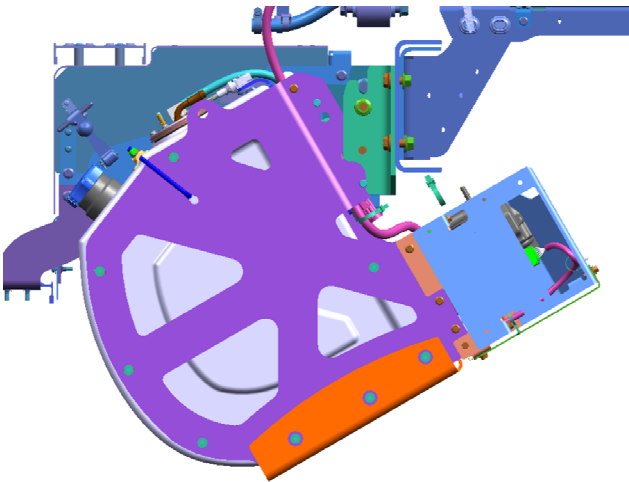
6) Remove Nylon tie from DEF Tank Wire. This will allow the tank to be tipped outward to access the DEF head assembly.



7) Remove the four DEF tank mounting bolts. (Support tank as necessary)



8) Tilt the DEF Tank module about 30 deg to access the header unit.



9) Remove the six DEF Head Assembly retaining screws and save for re-use. Additional screws are provided in the kit if necessary.

NOTE: Use caution when removing the DEF Head Assembly from the tank. Sensor damage can occur if the unit is dropped or bumped.

10) Carefully lift the DEF Head Assembly from the tank tipping the assembly as required to completely remove the assembly from the tank.

NOTE: If the filter has come apart, it does not need to be removed from the DEF tank.

11) Place assembly on a clean work surface.

12) Remove the filter retaining clip and discard.



13) Remove original filter and O-ring from the tube.

14) Verify new filter has O-ring in place.

15) Remove the retaining clip from the new filter (pre-installed) Carefully install new filter onto the tube with O-ring contacting bead on tube.

16) Secure with new Retaining Clip provided with filter, verify filter is secured by pulling filter down slightly. Filter should stop against retaining clip



NOTE: Use caution when installing the DEF Head Assembly into the tank. Sensor damage can occur if the unit is dropped or bumped.

17) Clean the old gasket and make sure it is free of debris, and re-use. Then carefully reinstall head assembly back into DEF tank aligning the rubber grommet with the molded boss in the bottom of the DEF tank.

18) Secure The DEF head assembly with the six retaining screws.

- Apply PTFE thread sealant (Loctite 565 or equivalent) to the six DEF torx screws
- Cross Tighten Torque to 3.4Nm minimum

19) Tip DEF Tank module back into place on frame brackets.

20) Reinstall original bolts and secure to 193- 237Nm / 142-174Ft LBS.

21) Reinstall DEF lines into original position.

22) Reinstall Coolant lines in original position torque clamps to specs and remove clamps.

23) Reinstall Vent line

24) Secure tank wire harness bundle with nylon tie as shown below.



25) Mark or indicate on the DEF tank that the DEF filter has been updated. Also mark the MRC as being complete below.

OTHER RESOURCES

[Exhaust After-treatment System with DPF and SCR manual 0000001602](#)



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