Countries:	CANADA, UNITED STATES	**Document ID:**	IK0700067
Availability:	ISIS, Bus ISIS, FleetISIS	**Revision:**	3
Major System:	EXHAUST	**Created:**	11/25/2013
Current Language:	English	**Last Modified:**	3/24/2014
Other Languages:	NONE	**Author:**	Ernest Cox
Viewed:	468		

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Title: SCR Vehicles with SPN 1761 FMI 1: DEFTL Inducement 3-5

Applies To: All SCR Vehicles

DESCRIPTION

When low DEF is experienced, 1 BEEP will be heard and the low DEF warning indicator light illuminates ( ). When the DEF Tank Level (DEFTL) inducement level is high, either the Amber Warning Lamp (▽), the Red Stop Lamp ( ), or both will illuminate on the gauge cluster along with the low DEF warning indicator light. If the Amber Warning Lamp or the Red Stop Lamp illuminated at the same time the low DEF warning indicator light illuminated without seeing the low DEF warning indicator light first, check the fault codes. See your vehicle's applicable operation and maintenance manual for further details on the DEF warning indicator light.

Independent occurrences of SPN 1761 FMI 1 "DEFTL Inducement 3-5" **with no other DEFTL faults present** can be caused by the introduction of air bubbles into the DEF tank stand pipe. If SPN 1761 FMI 1 is present without any other DEFTL fault codes present, follow the repair procedure below.

REPAIR PROCEDURE

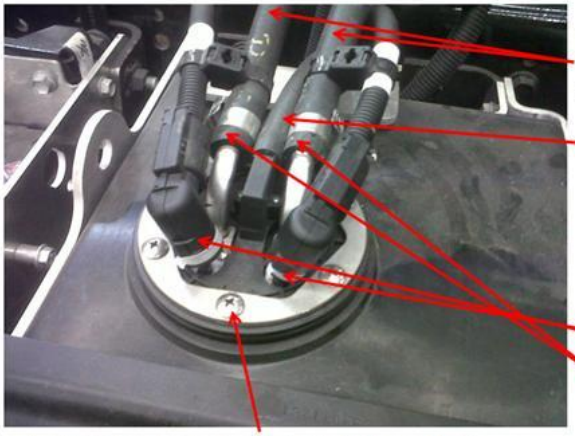
Using a diagnostic service tool, inspect for fault codes related to the DEF (Diesel Exhaust Fluid) tank level (SPN 1761 FMI 'X'). If multiple 1761 / X Faults are present, they are most likely caused by a low level of DEF in the tank. Check the tank level, and if below 10%, refill the tank level with DEF and return to the customer.

If SPN 1761 FMI 1 "DEFTL Inducement 3-5" is present with no other 1761/X fault codes, the DEF return tube must be removed using the following procedure. Make sure to remove all dirt, debris, snow, etc from around DEF head unit before disassembly to avoid contamination of the DEF in the tank.

TIPS:

In some applications, access to the DEF head unit may be restricted due to trim panels or add-on features. If necessary, remove trim panels for access as shown in the appropriate chassis service manual. In extreme instances, it may be required to tilt the entire DEF tank to aid in lifting the DEF head assembly. This can be achieved by removing the four frame bolts and pivoting the tank forward, being careful to secure the tank from dropping. Follow the link to the DEF Head service Manual for procedures on tank removal if needed (most applications do not require that the tank be tilted or removed).

For the DEF HEAD Service Manual Link: ***CLICK HERE***



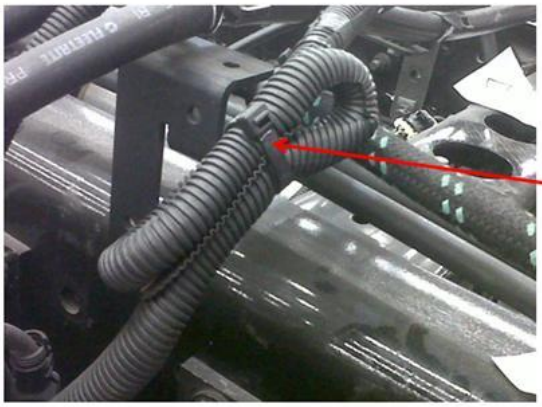
1. Clamp off Coolant lines to eliminate coolant loss during removal

2. Disconnect Vent line

3. Disconnect DEF Lines by squeezing the plastic tabs together and pulling up

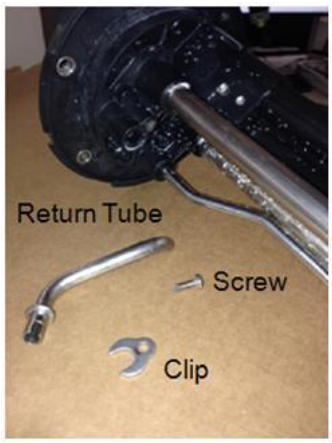
4. Disconnect Coolant Lines by loosening clamps and sliding back the hoses

5. Remove 6 torque screws securing head unit.



5. If necessary, cut Zip Tie to relieve DEF Tank wire harness bundle tension (located directly behind tank)

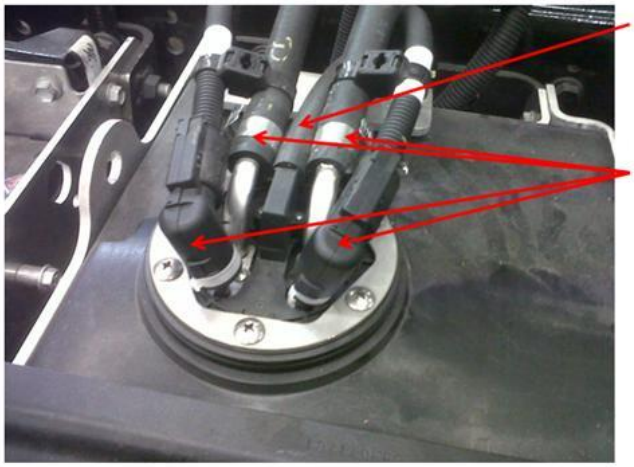
6. Lift DEF head out of tank (approximately 4")
7. Remove screw and clip using caution to not drop the removed pieces in to the tank. The return tube will fall out with slight downward pressure. Set all three aside.



8. Install Head Unit back into the DEF tank, taking care to not force it in. Look through the filler neck and verify that the bottom of the DEF head assembly is located on the alignment feature (appears like a black ball). Reinstall screws.

Torque screws holding head unit to 3.4Nm to 4.4Nm.

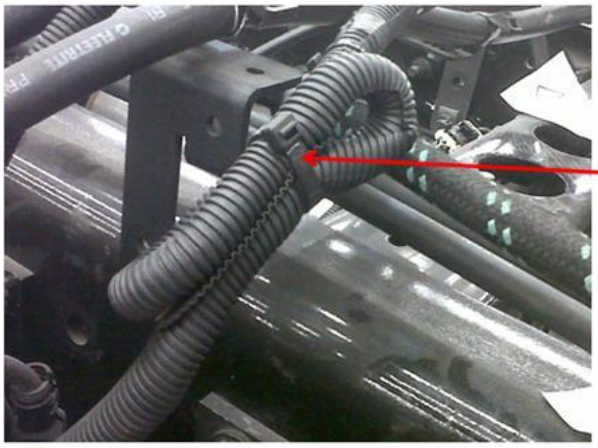
1.



9. Connect Vent line

10. Reconnect DEF Lines and Coolant Lines; tighten coolant clamps

11. Remove coolant hose clamp pliers from coolant lines



13. Clear fault codes

14. Top off coolant level

Service Repair Times

Service repair times can be found on Service Portal under **Warranty > Standard Repair Times > SRT**. For N13 and ISX engines, select **18 - Selective Catalyst Reduction Aftertreatment** from the drop down and click the hyperlink **DEF Tank Pickup/Screen, Replace**. Choose the applicable engine and model configuration from the SRTs below.

Hours	Code	Model	Engine	Qualifier 1
0.6	N18-1787US	7600	|N13|	
1.2	Q18-1787US	8600	|N13|	2010 Emissions SCR
1.2	R18-1787S	ProStar	|Cummins ISX|	
1.2	R18-1787US	ProStar	|N13|	2010 Emissions SCR

For ISB engines, select **18 - Selective Catalyst Reduction Aftertreatment** from the drop down and click the hyperlink **DEF Tank Pickup, Replace**. Choose the applicable model configuration from the SRTs below.

Hours	Code	Model	Engine
1.4	GY18-1787SB	CE / BE	|Cummins ISB|
1.4	KL18-1787SB	DuraStar	|Cummins ISB|

Warranty Group Nouns

Claims for this procedure should be coded to warranty noun **18150046 - Hose, Pump to Tank Return**.

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	DY08955	You received the following feedback From: dy08955 - David Gabrielle Email Address: gabe396@aol.com Job Classification: SE008, Service Technician Dealer: TRUCK KING INTL IDEALEAS Feedback: Please add an explanation why this issue is occuring and how this modification corrects this issue.	3/25/2014 5:40:50 AM