INSTRUCTION TO SERVICE

ITS: 6006	
SECTION:	231 Coolant System
WRITTEN BY:	Mike Pearson
SUBJECT:	Revise surge tank low coolant level sensor harness rework

ITS6006

PROCEDURE:

1. Turn the main battery disconnect switch to the “OFF” position.
2. Open the rear interior engine access door and locate the surge tank low coolant derate sensor harness.

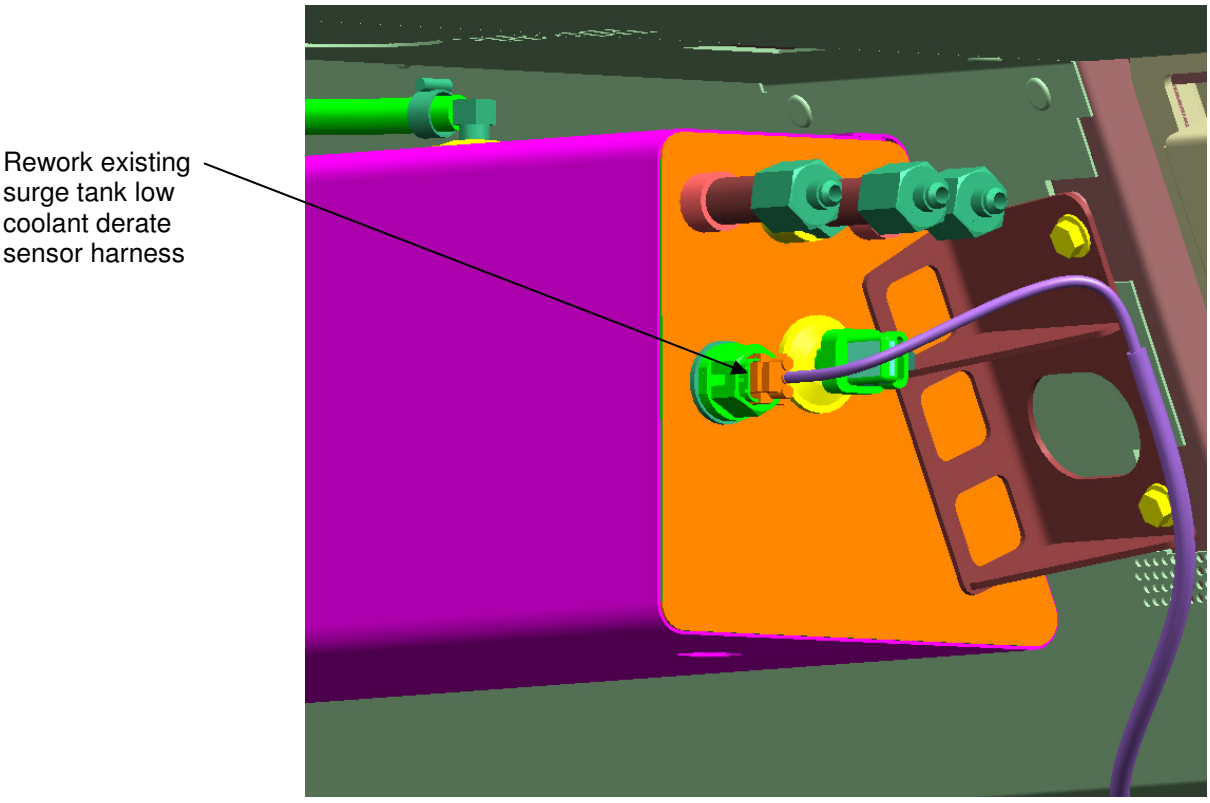

Figure 1: Existing Surge Tank Low Coolant Derate Sensor

3. Disconnect the existing coolant derate sensor harness and examine the terminals on both the harness connector and the low coolant sensor for signs of corrosion. If corrosion is present then the sensor will need to be replaced with new sensor (NF P/N 473480).
4. Cut off the existing 3 circuit tower as close as possible to the connector of the disconnected harness and terminate each wire with the supplied terminal (NF P/N 108871) and wire seal (NF P/N 108872).
5. Insert wire 140EN46#2 (red) into supplied 3-pin shroud connector (NF P/N 104558) at cavity A (SIG).
6. Insert wire 140EN46#2 (black) into supplied 3-pin shroud connector (NF P/N 104558) at cavity C (GND).
7. Insert connector plug (NF P/N 102904) into supplied 3-pin shroud connector (NF P/N 104558) at cavity B.
8. Connect newly pinned shroud connector to supplied extension harness (NF P/N 584150).
9. Connect the new extension harness to the existing surge tank low coolant derate sensor harness.
10. After installation the connection between the main harness and the new extension harness and between the new extension harness and the low coolant sensor are to be wrapped with self fusing tape NF P/N 6411846. Approx. 12” of tape for each connection.
11. Turn the main battery disconnect switch to the “ON” position.

NEW FLYER

LABOUR ESTIMATE

	Operation	Men	Hours	Labour Time M X HR
1	Revise surge tank low coolant level sensor harness rework	1	0.75	0.75

PARTS REQUIRED

Item	Part Number	Description	Qty. per Coach	Units	Notes
1	473480	Sensor-Coolant Level Float	1	EA	As required
2	108871	Terminal-Male for Shroud	2	EA	
3	108872	Seal-Cable Weather Pack	2	EA	
4	104558	Connector-3 CCT Shroud weather Pack	1	EA	
5	102904	Plug-Connector	1	EA	
6	584150	Assembly-Pigtail Coolant Level Sensor	1	EA	
7	6411846	Tape-Self Fusing Insulation	0.06	EA	