



INSTRUCTION TO SERVICE

ITS61262		February 05, 2025
SECTION:	241-Fuel System	
WRITTEN BY:	Aditya Gadepalli	
SUBJECT:	Fuel Neck Fill Replacement (on coaches with Emco-Wheaton valve)	
ISSUE:	Customers are complaining of fuel splashback at high flow rates.	
SUMMARY:	Follow this procedure to replace the neck fill assembly with a new design which resolves the splashback issue.	

ITS61262

Ref. NHTSA Recall No.	Ref. Transport Canada Recall No.
Not Applicable	Not Applicable

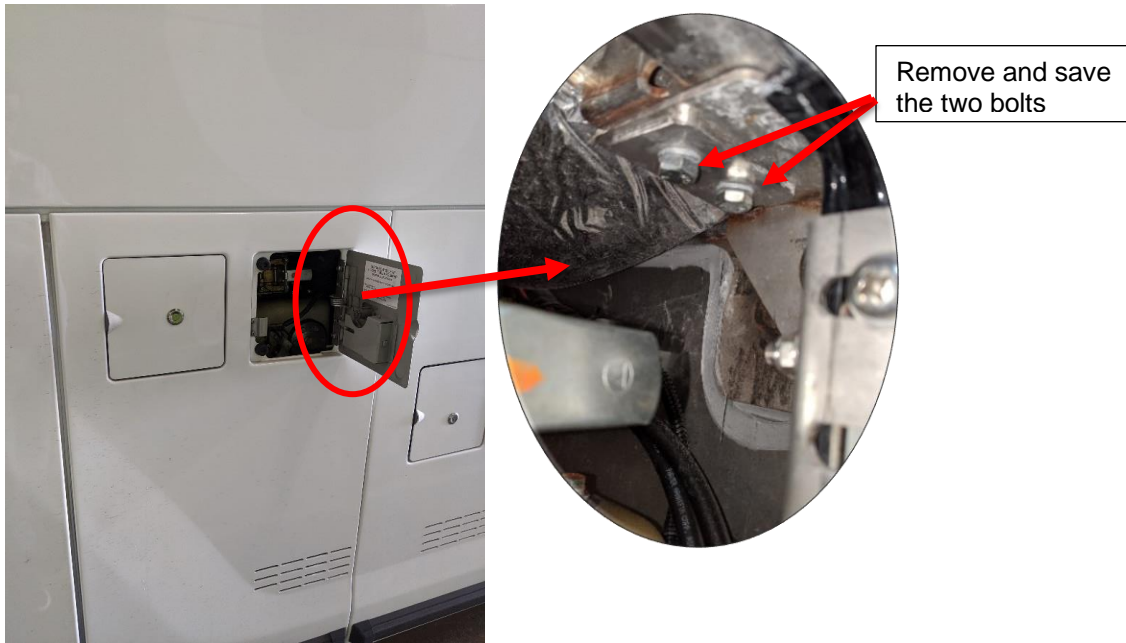
THIS ITS DOCUMENT SHOULD BE RETAINED AND REFERRED TO FOR FUTURE MAINTENANCE UNTIL THE PARTS AND/OR SERVICE MANUAL IS UPDATED TO REFLECT WORK DONE AS A RESULT OF THIS DOCUMENT. ENSURE THAT THIS DOCUMENT IS AVAILABLE FOR PARTS AND MAINTENANCE STAFF GOING FORWARD.

PROCEDURE:

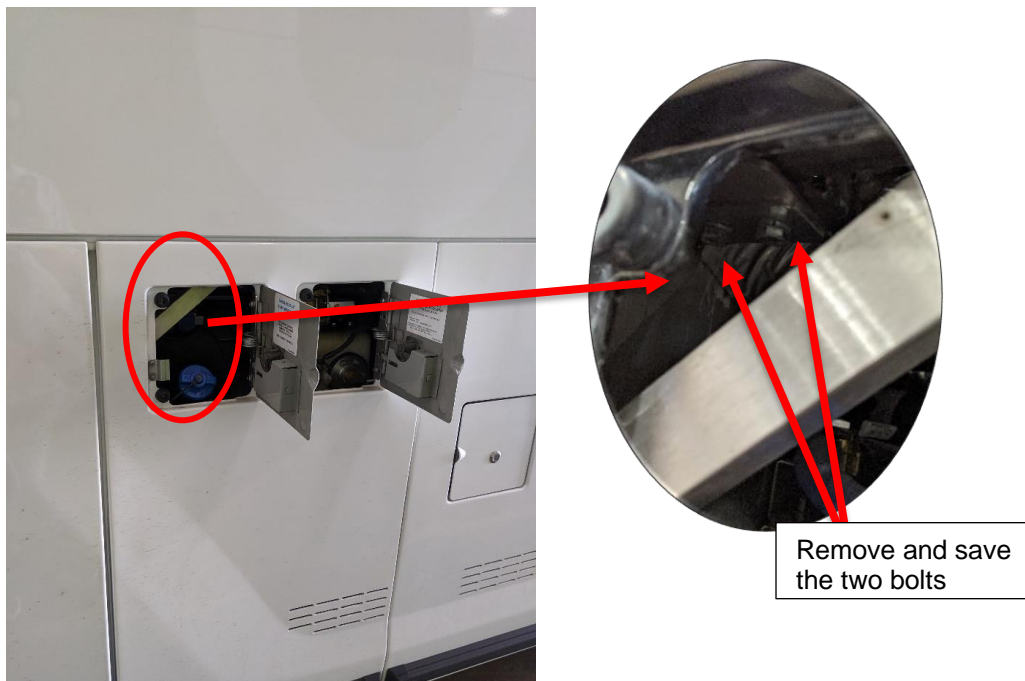
1. Set park brake and chock wheels.
2. Turn the main battery disconnect switch to the "OFF" position.

👉 **NOTE: Have offset wrenches for this ITS to make it easier to reach certain bolts.**

3. Open the fuel tank access door and remove the two bolts securing the fuel door. Save the bolts for later use.

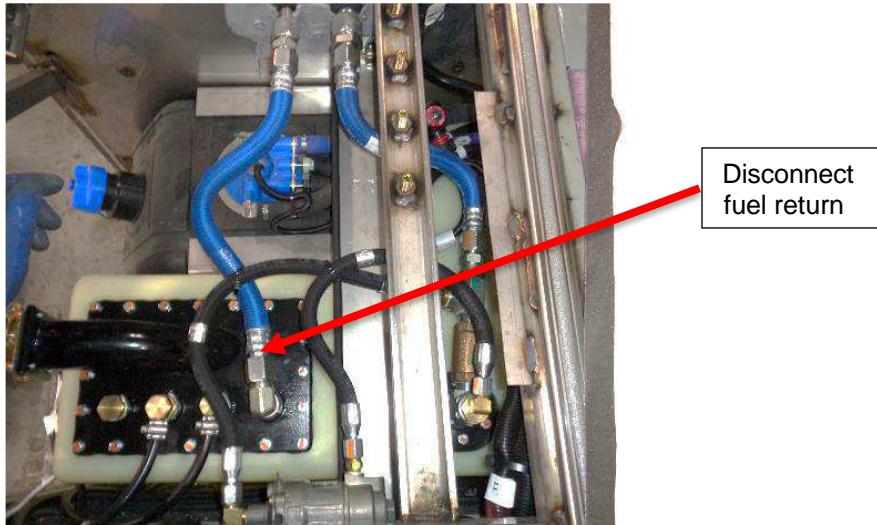


4. Open the DEF access door and remove the two bolts securing the fuel door. Save the bolts for later use.

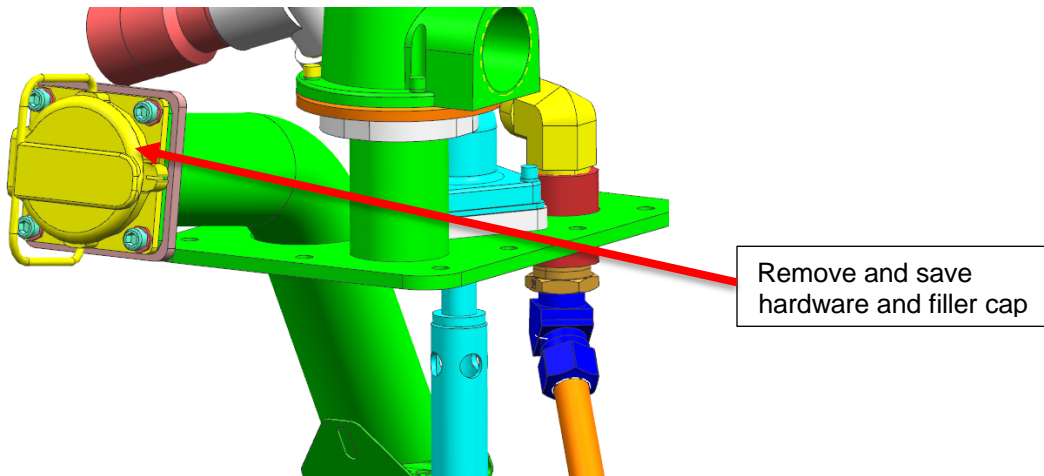


5. Remove and set the fuel door aside.

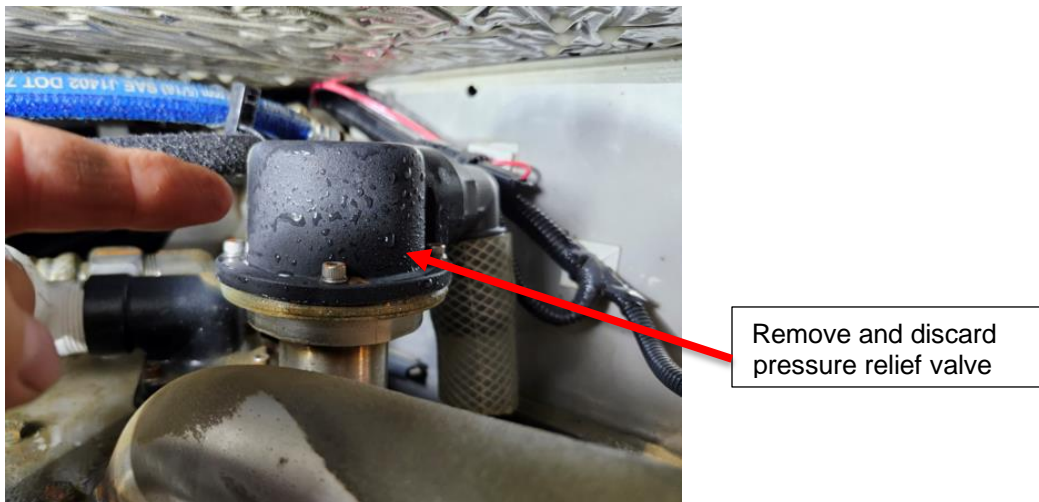
6. Disconnect the fuel return lin.



7. Remove and save the hardware securing the filler cap and the filler cap. Discard the gasket.



8. Remove and discard the pressure relief valve



9. Remove and discard the level control valve.



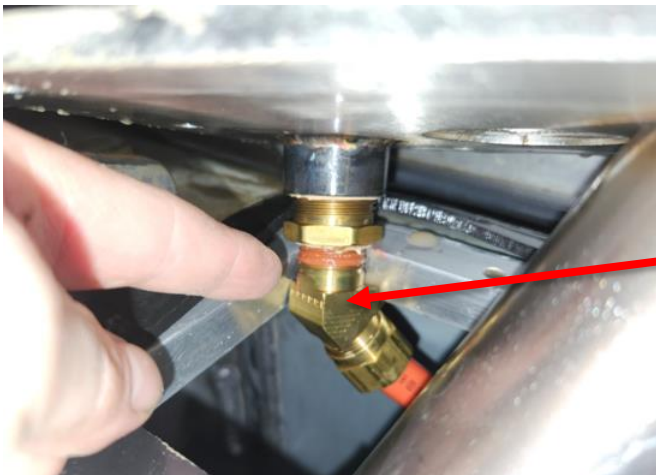
Remove and discard
level control valve

10. Remove and save the ten bolts and lock washers securing the fill neck assembly.



Remove and save
the hardware

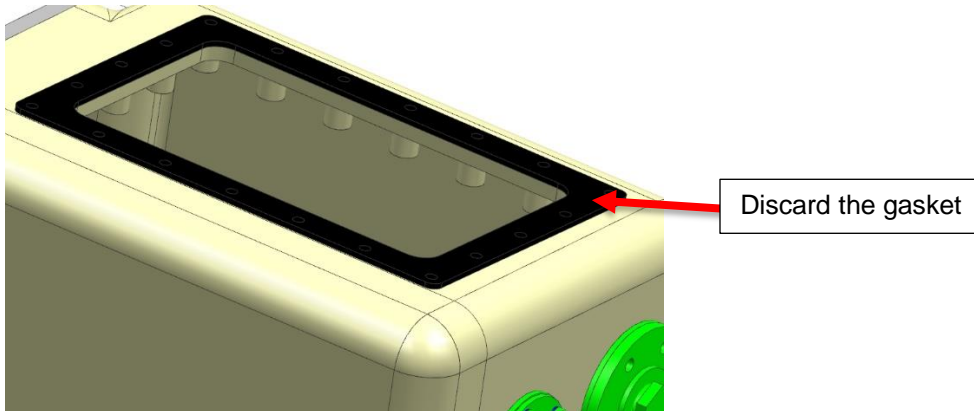
11. Remove the return hose from the bottom of the filler neck.



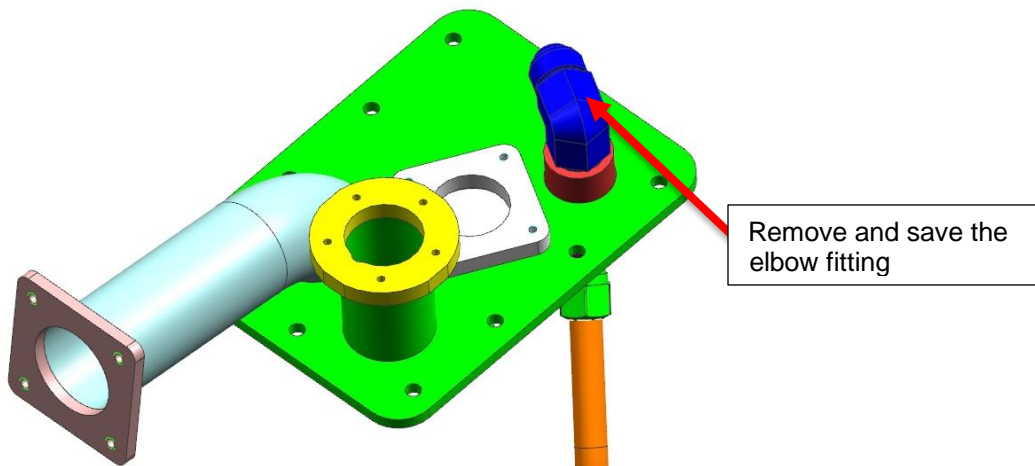
Remove and save
the return hose

NOTE: Secure the tube and fitting so it doesn't slip into the tank.

12. Remove and save the neck fill assembly and discard the neck fill gasket.

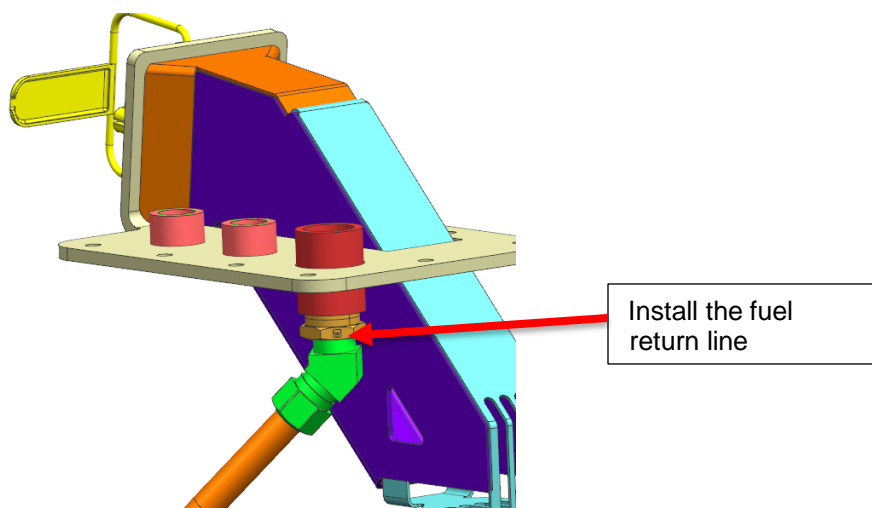


13. Remove and save the elbow fitting. Discard the neck fill assembly.

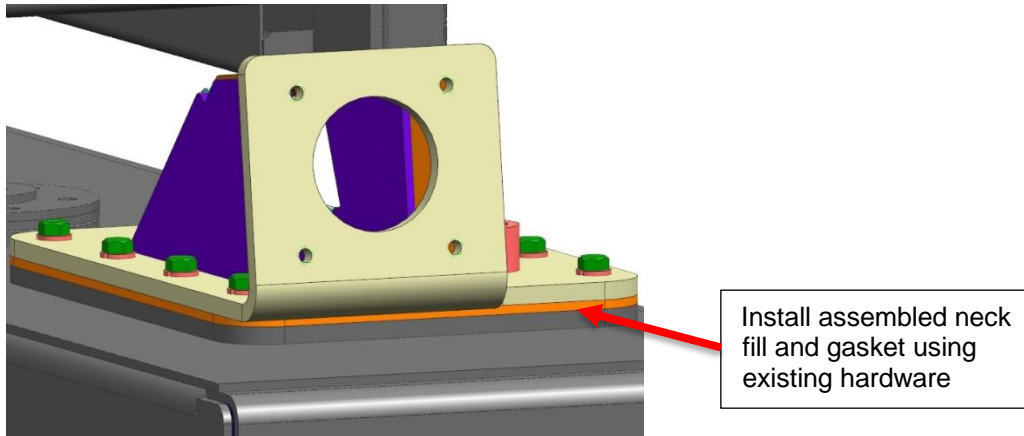


14. Use thread fitting sealant for the next few steps wherever there are thread fittings.

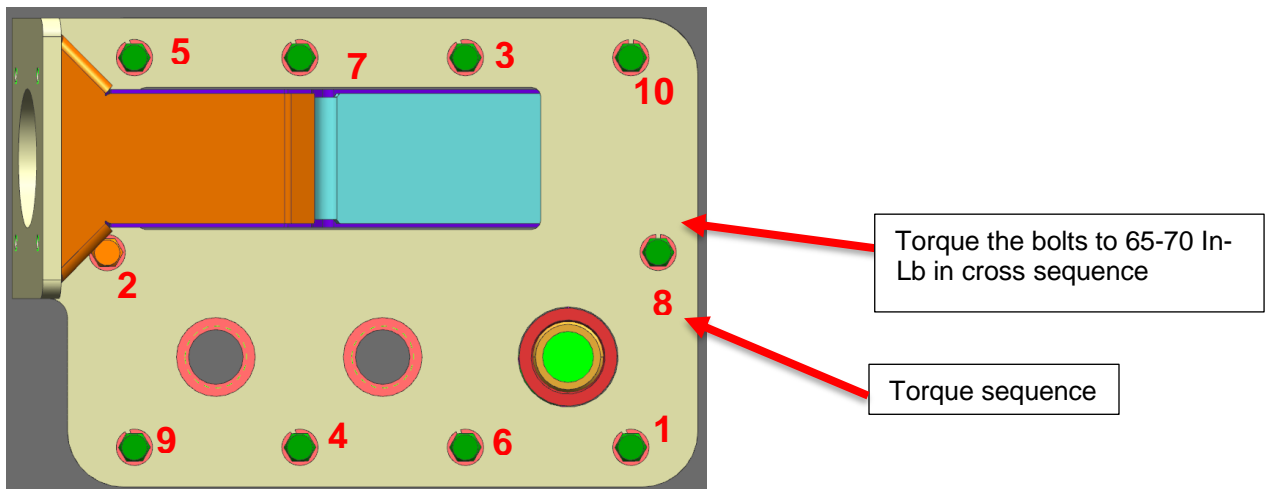
15. Install the fuel return line bushing and 45 degree elbow to the new neck fill gasket assembly, 1050921, as shown.



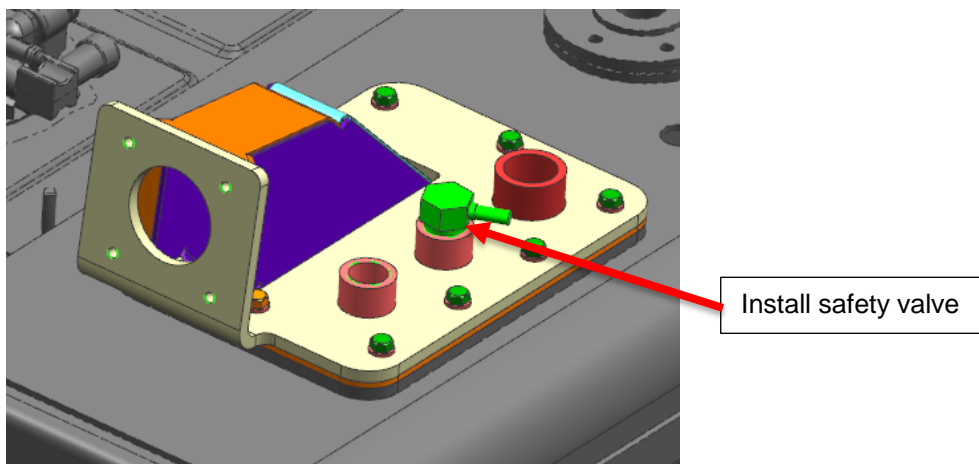
16. Place the new neck fill gasket on the fuel tank, MCI P/N: 09-06-2328, and re-install neck fill assembly using existing bolts and lock washers.



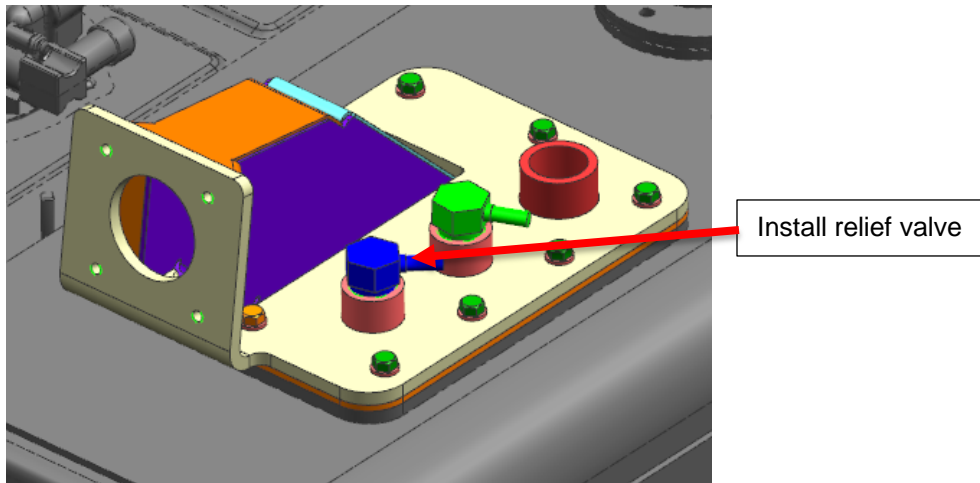
17. Torque the bolts to 65-70 In-Lb in cross sequence procedure as shown below.



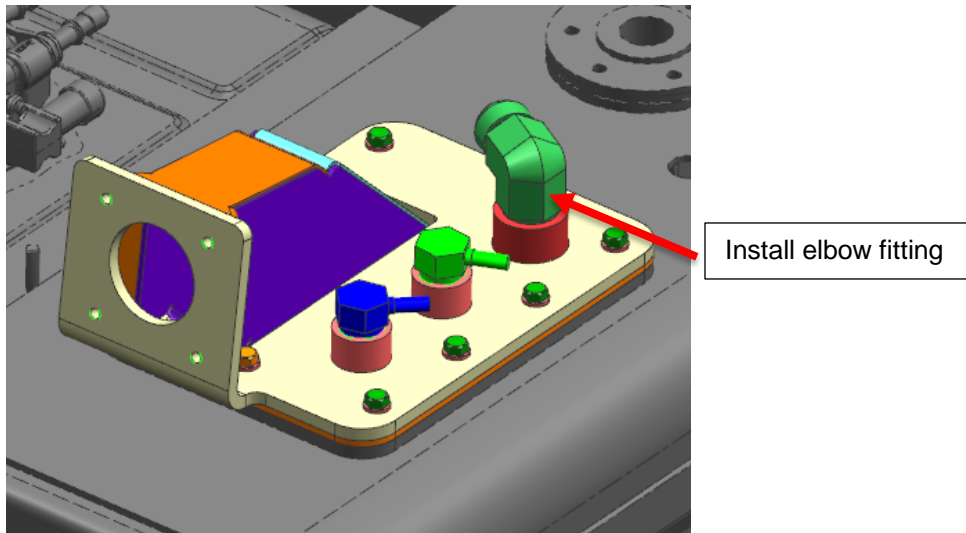
18. Install safety valve, 09-06-6151, to the fill assembly as shown below and apply Teflon tape to seal.



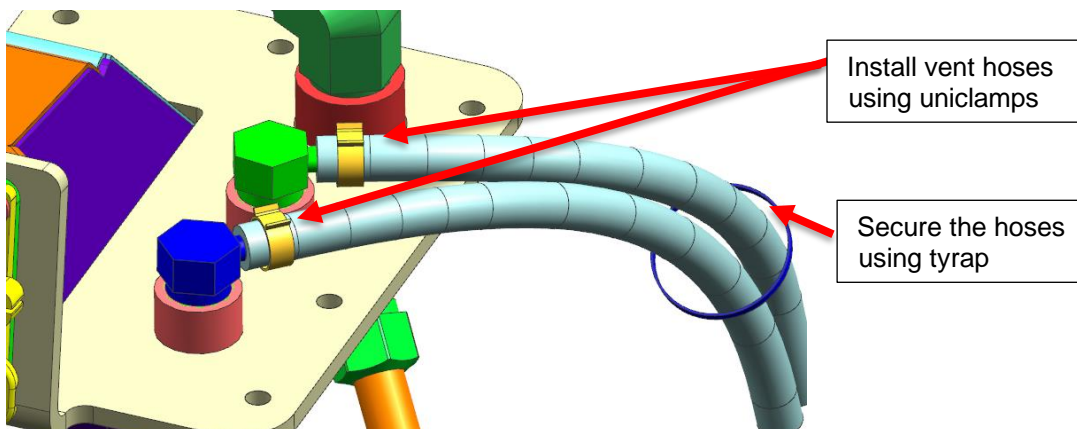
19. Install relief valve, 09-06-1708, to the fill assembly as shown below and apply Teflon tape to seal.



20. Install existing elbow fitting to the fill assembly as shown below.

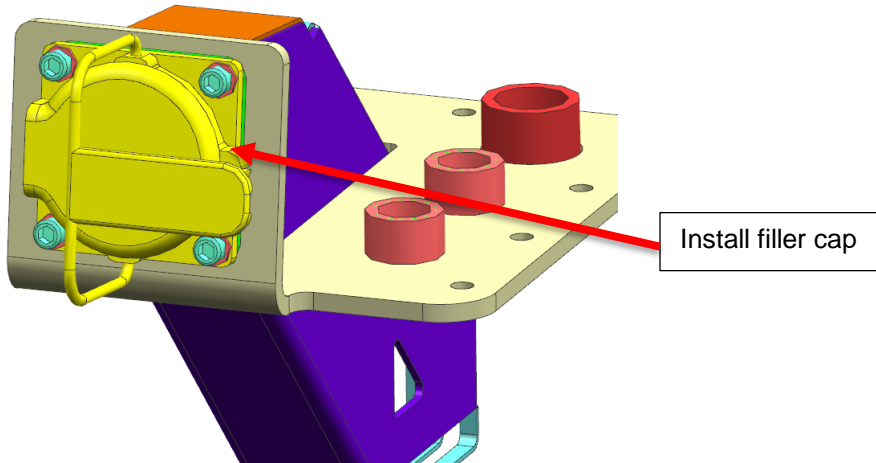


21. Install vent hoses, 09-06-2484, to both the safety and relief valves using uniclamps, 954341. Secure the hoses using tyrap, 5958112.

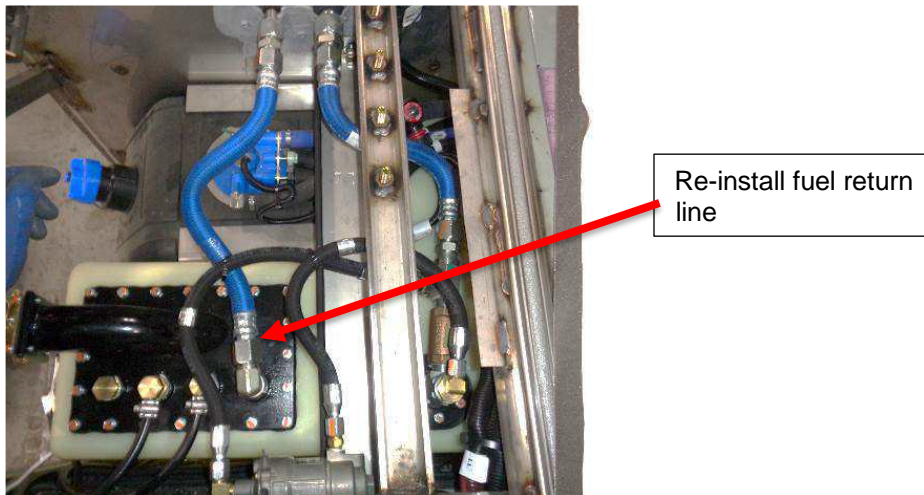


🔧 **NOTE:** Torquing bolt #2 can be tricky. Tighten it as much as possible.

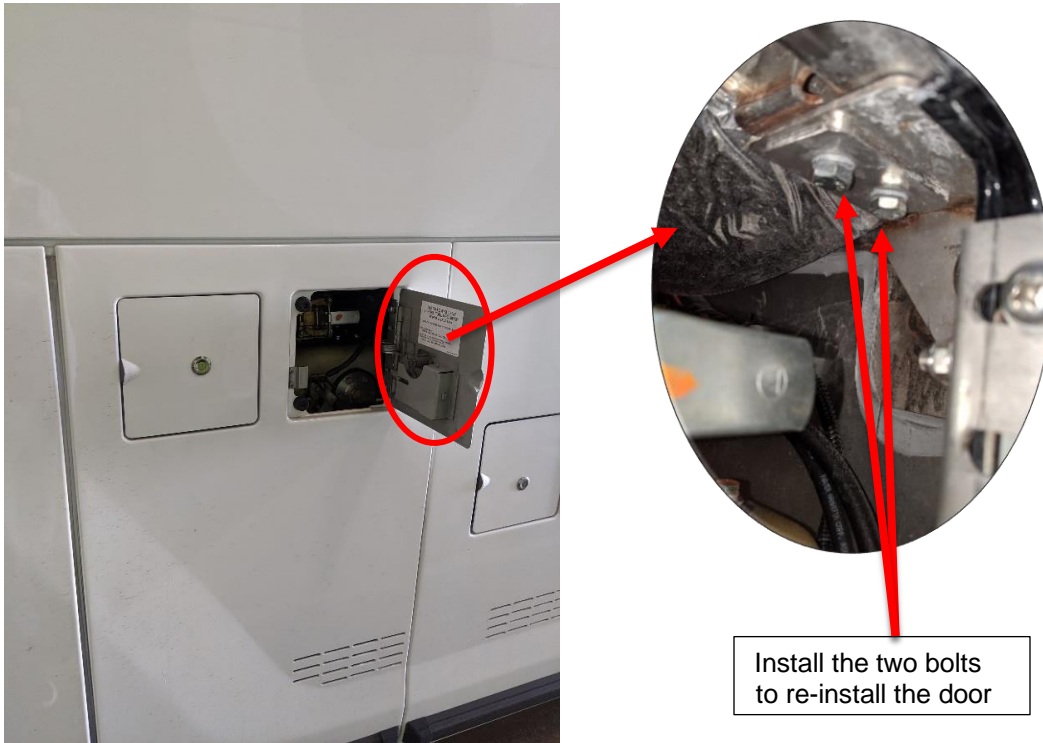
22. Install the filler cap to the new neck fill gasket assembly, 1050921, using new gasket, 09-06-1709. Torque the bolts to 88-92 In-Lbs.



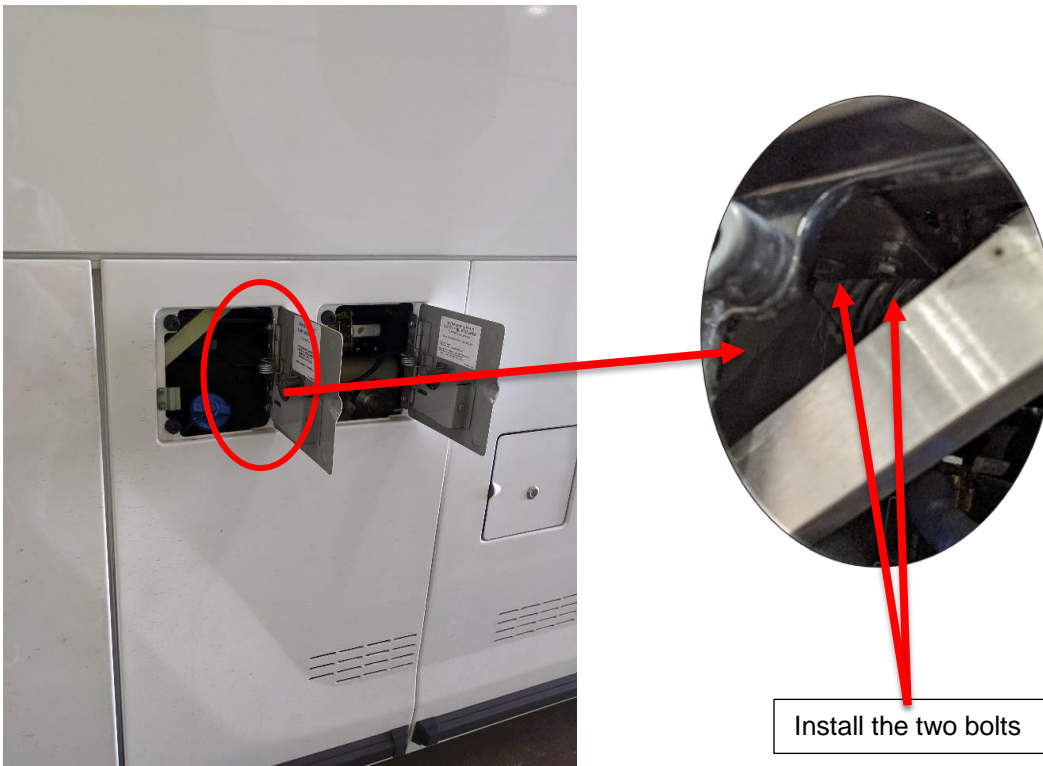
23. Re-install the return line to fuel tank. Torque the fittings to 83 Ft-Lb.



24. Re-install the fuel door to the coach frame by installing the two existing bolts from the fuel tank access door.

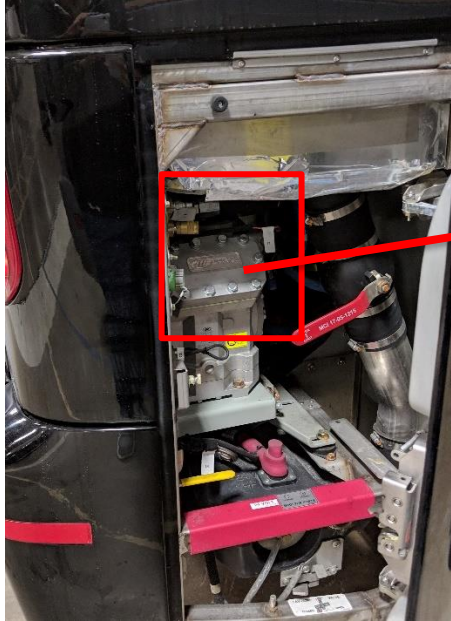


25. Secure the fuel door by installing the two existing bolts from the DEF access door.



26. Check the coolant level in the surge tank and top-off, if needed.

- 27. Turn on coach ignition.
- 28. Push and hold the fuel pump switch in the RH service compartment for at least one minute to ensure no air bubbles in the fuel filter



Hold the switch for at least one minute

- 29. Re-torque the bolts on fuel tank neck fill to their respective torque values after 24 hours from initial torque application.



LABOUR ESTIMATE				
	Operation	Number of Technician(s)	Hours	Labor Time T X HR
1	Fuel Neck Fill Replacement (on coaches with Emco-Wheaton valve)	1	2	2

PARTS REQUIRED					
Item	Part Number	Description	Qty. per Coach	Units	Notes
1	1050921	Assy-Fuel Fill Box	1	EA	
2	09-06-1709	Gasket - Fill Neck	1	EA	
3	09-06-6151	Valve-Safety	1	EA	
4	09-06-1708	Valve-Vent/Relief	1	EA	
5	09-06-2484	Hose-Vent,Fuel Tank	1	EA	
6	954341	Clamp-Uniclamp .590 Dia	2	EA	
7	5958112	Tyrap	1	EA	
8	09-06-2328	Gasket	1	EA	

SPECIAL TOOLS REQUIRED					
Item	Part Number	Description	Qty.	Units	Notes
1	121238	Teflon Tape 10TT03	1	EA	
2	21-7203-2	Sealant-Pipe Fitting	1	EA	