INSTRUCTION TO SERVICE

ITS: 59195	9-Mar-2021
SECTION:	241-Fuel System
WRITTEN BY:	Mike Pearson
SUBJECT:	Replace incorrect supplier installed LCV spring
ISSUE:	Supplier used an incorrect spring in the LCV valve
SUMMARY:	Supplier has sent replacement LCV springs and the customer will be installing them, ITS is to document work and allow for billing of labor.

ITS59195

THIS ITS DOCUMENT SHOULD BE RETAINED AND REFERRED TO FOR FUTURE MAINTENANCE UNTIL THE NEW FLYER 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.
3. Locate and open the fuel fill access door.

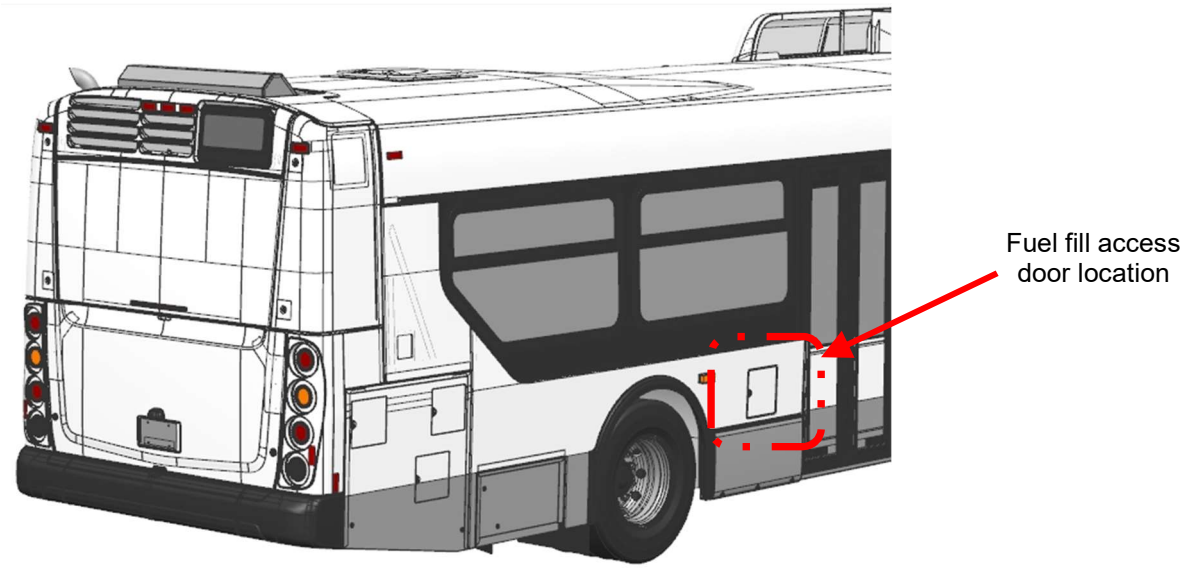

Figure 1: Fuel Fill Access Door Location

4. If needed, remove and save the fuel fill snap adapter, gasket and mounting hardware (x4). Plug fuel neck with a clean lint free rag to keep anything from accidently entering the fuel tank.

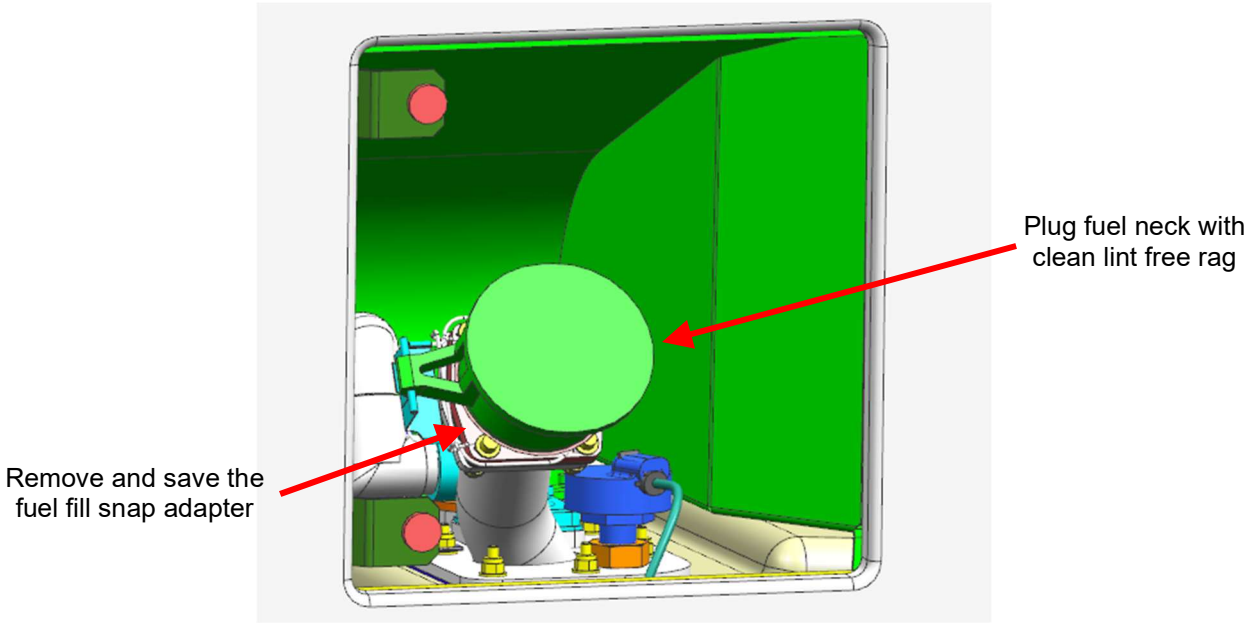

Figure 2: Fuel Snap Adapter Removal (Access Door Removed for Clarity)

5. Remove and save the existing LCV valve, gasket and mounting hardware for reuse.
6. Cover the LCV boss with a clean lint free rag to keep anything from accidently entering the fuel tank.

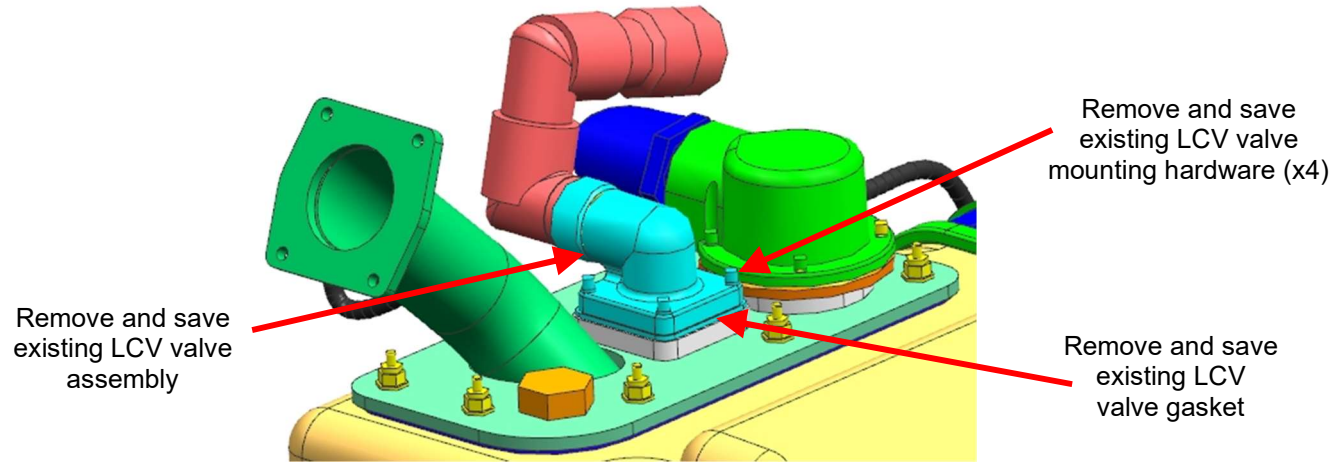

Figure 3: LCV Valve Assembly Removal

☞ **NOTE: Soft vice jaws will prevent any damage to the anodized LCV body.**

☞ **NOTE: The retaining washer will be under light spring pressure and so care should be taken not to lose the washer or circlip.**

7. Place the LCV valve from Step 6 into a soft jawed vice as shown in Figure 4.
8. Remove and safe the securing circlip, see Figure 4.

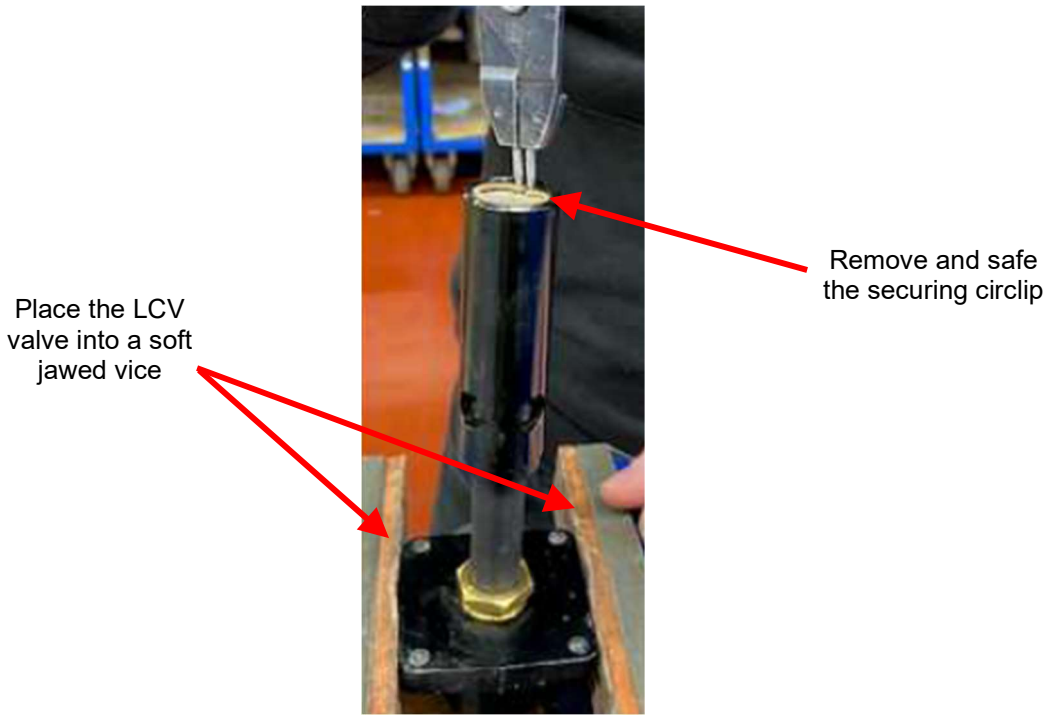

Figure 4: LCV Valve Circlip Removal

9. Remove the washer and existing spring, save the washer and discard the spring.

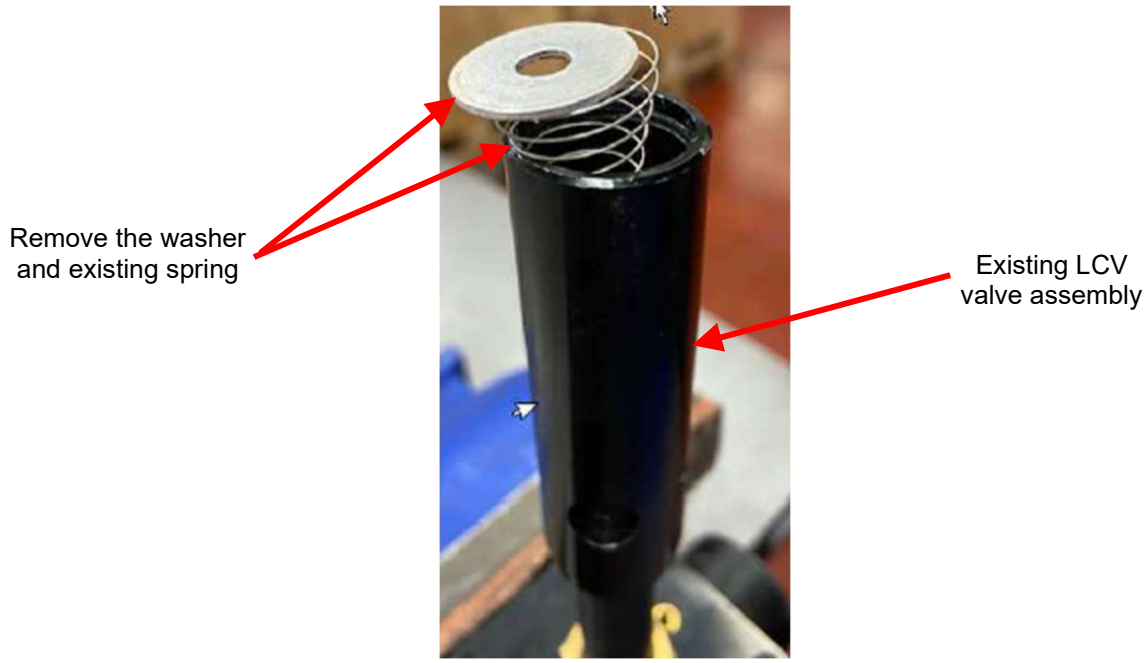

Figure 5: LCV Valve Washer and Spring Removal

10. Insert the replacement spring.
11. Place existing washer from Step 9 over the spring.
12. Re-install the circlip removed in Step 8.

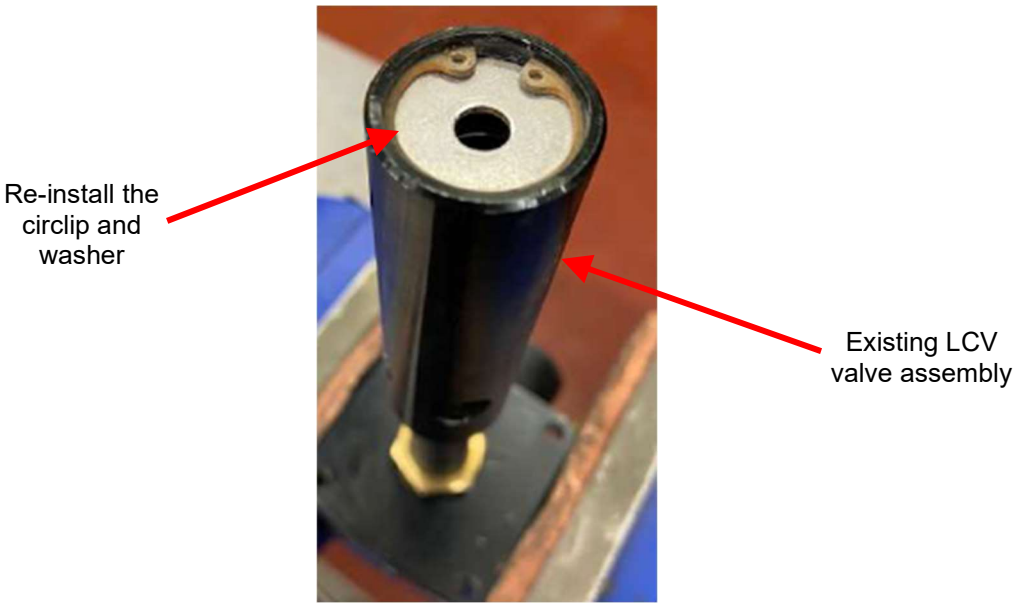

Figure 6: LCV Washer and Circlip Installation

13. Verify for correct height of existing aluminum ball, light should be visible through the ball chamber vent hole, at least 1/3rd of the hole should be clear, see Figure 7 for correct example.

Figure 7: Example of Correct Aluminum Ball Height and Vent Hole Space

14. Remove clean cloth from the LCV valve mounting boss and clean the LCV mounting boss mating surface.
15. Install the existing gasket from Step 5.
16. Clean the mating surface of the reworked LCV valve from Step 13 and position the LCV on the boss in the same position and orientation as was removed in Step 5.
17. Apply Loctite 222 p/n 030305 to the existing hardware from Step 5 and torque to 10-15 in*lbs.
18. If needed, remove the cloth used to protect the open fuel neck from contaminants. Reference Step 4.
19. Reinstall gasket, fuel fill adapter and hardware removed in Step 4. Position roll pin of adapter at left hand bottom side. Position dust cap hinge at left hand side, see Figure 8. Torque hardware to 75-85 in*lbs.

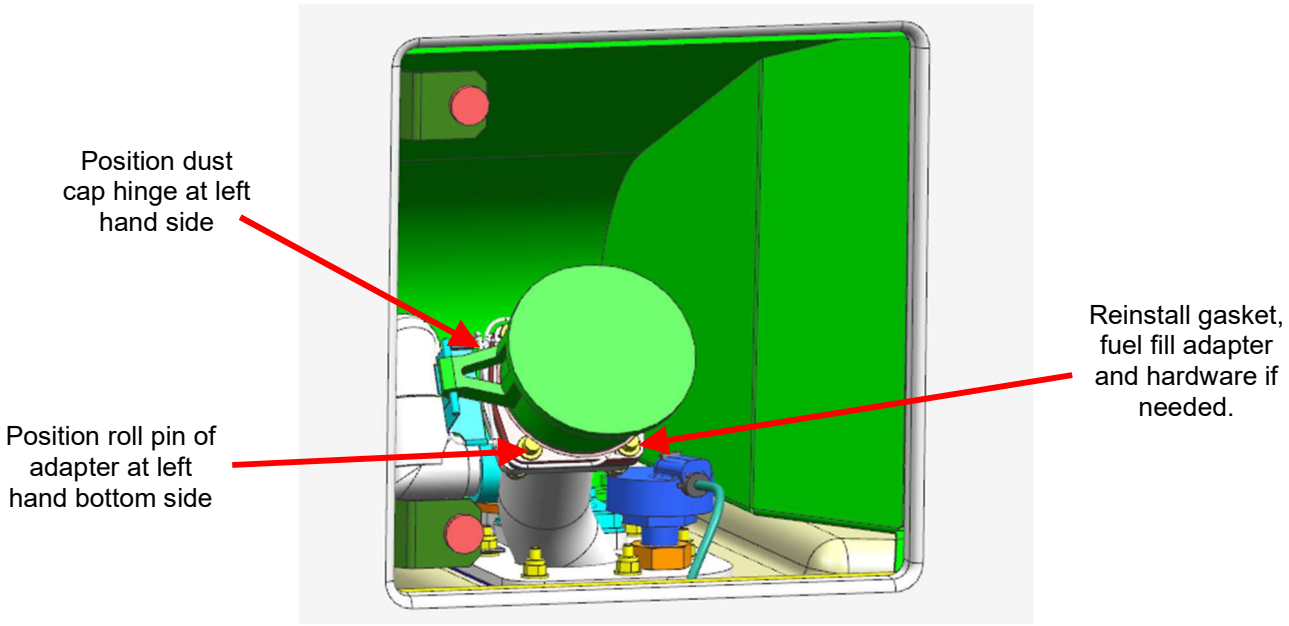

Figure 8: Fuel Snap Adapter Installation (Access Door Removed for Clarity)

20. Remove all tools and debris and return the bus to service condition.
21. Close the fuel fill access door.
22. Turn the main battery disconnect switch to the “ON” position.

ALL Parts supplied by Gardner Denver

LABOUR ESTIMATE				
	Operation	Number of Technician(s)	Hours	Labor Time T X HR
1	Replace incorrect supplier installed LCV spring	1	0.5	0.5

PARTS REQUIRED					
Item	Part Number	Description	Qty. per Coach	Units	Notes
1	Vpn 801143	Spring-LCV Valve	1	EA	Supplied by Gardner Denver