



Technical Service Bulletin

Technical Service Bulletin: TSB230067	Released Date: 09-May-2023
Safety Campaign #5215 – HGLAA Fuel Hose Leak	

Safety Campaign #5215 – HGLAA Fuel Hose Leak

Warranty Statement

The information in this document authorizes specific changes to the repair practice for failures covered under product warranty coverages.

Contents

Product Affected

- HGLAA Spec A
- 2.8 HGLAA-8302 (Gasoline)
- 2.8 HGLAA-8303 (EVAP)

Issue

Symptom:

- Fuel line connection from fuel filter to the inlet of the Injection Pump Module (IPM) may not be secured properly

Root Cause:

- Incorrect hose used during assembly

Verification/Confirmation

- If the gasoline generator set has a serial number before B230206933, inspect to see if the fuel hose from filter to Injection Pump Module (IPM) has the specified colored writing on hose.

Refer to document **TSB230067-A Safety Campaign #5215 HGLAA Fuel Hose Leak Affected Generator Set Serial Numbers** for a table of affected units.

Resolution

Replace Oeitker (OET) clamp with new OET Clamps while using OET Pilers. Use Kit PN A073U493

In order for the repair to mitigate the safety defect and to meet EPA/CARB requirements, you must only use the hose kit A073U493. Do not use bulk or hand cut hose.

See Service Instructions sections below, for proper fuel line, clamps, and installation instructions.

Service Instructions

1. If unit at OEM, unbox the unit from original packaging (not applicable for Installed Units).
2. Turn off the HGLAA generator set , Perform LOTO .
3. Remove the door enclosure by twisting the knob to open.

Note: If enclosure needs to be removed for adequate access be mindful of the enclosure tabs at the base pan.



Figure 1, Lock Location to Remove Service Door

4. Remove top cover of air filter housing and filter by hand.

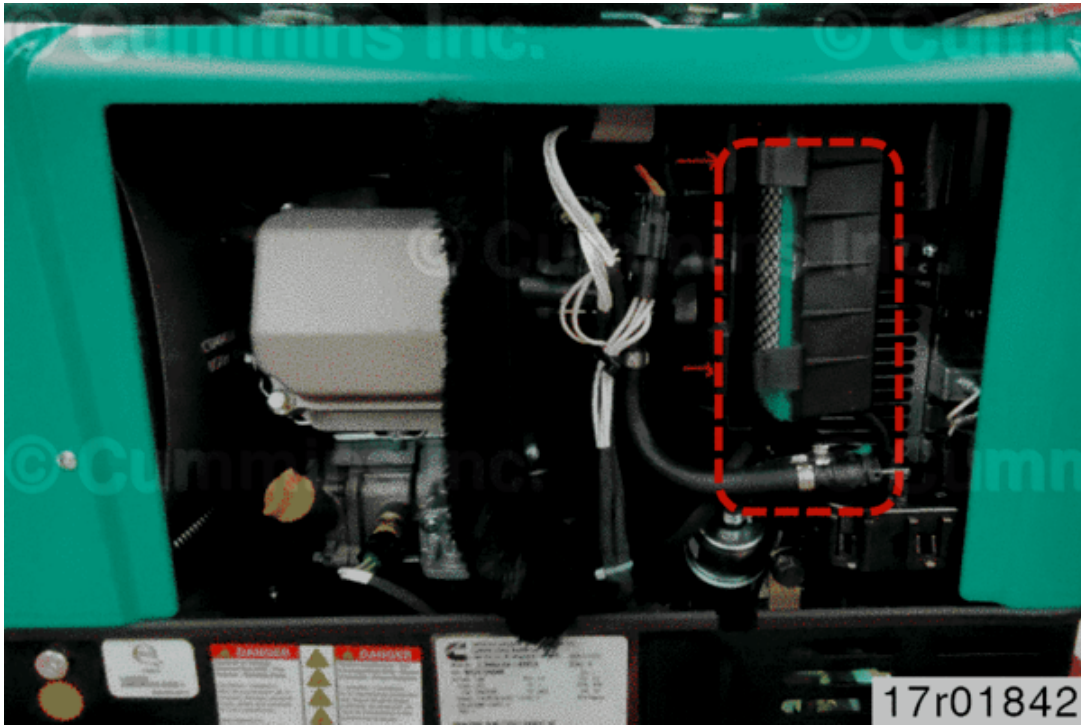


Figure 2, Location of Air Filter Removal

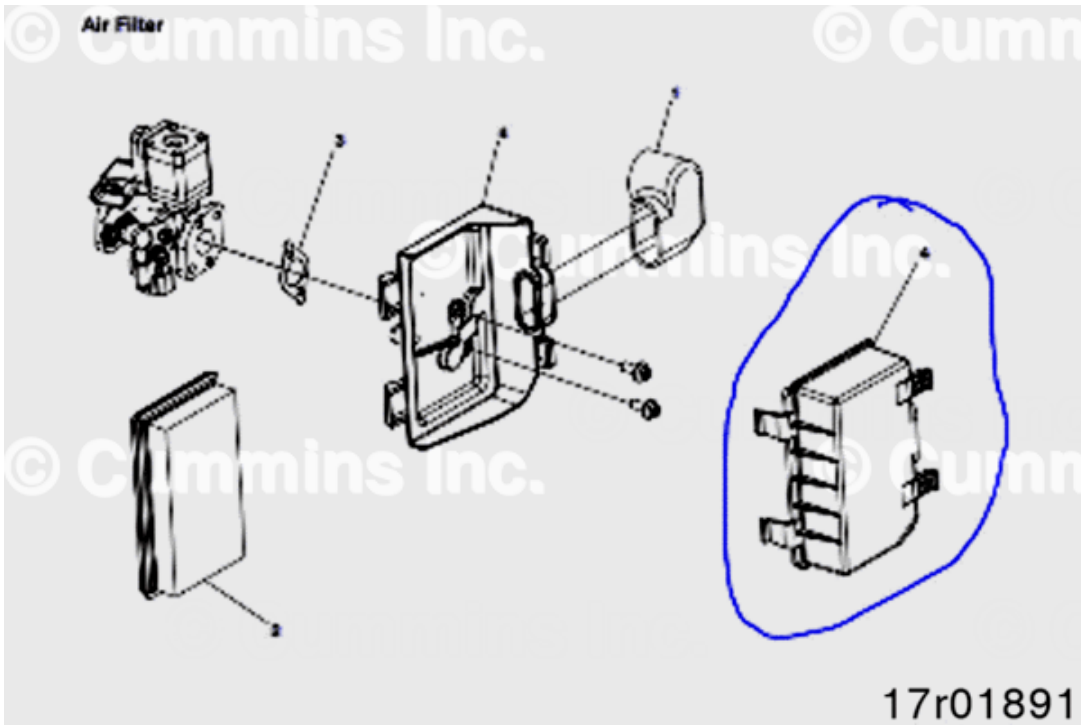


Figure 3, Extruded View of Air Filter



Figure 4, Air Filter Box Open

5. Inspect Fuel hose for colored writing. If the hose has white lettering, replace the hose. If it has yellow/green writing, skip to step 14.



Figure 5, Example of Hose Colored Writing

6. Unplug the fuel outlet hose using the quick disconnect feature. Pull the Green Part in the Direction of arrow, pull the green quick link lock upwards to release lock as indicated (in direction of arrow).

Safety consideration:

- a. Use cut resistant hand gloves and mask the cable tie before pulling the hose.
- b. Put a piece of cloth/cushioning material on the base frame to avoid any damage.
- c. After removal of fuel line, make sure that it is completely vertical, see figures below.

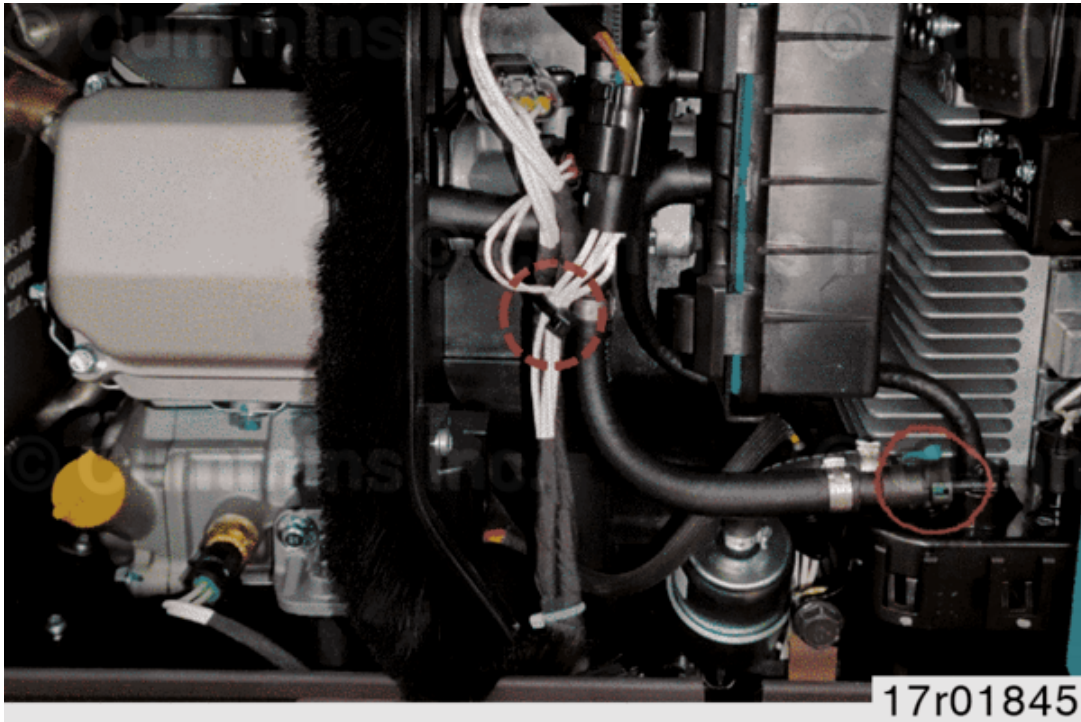


Figure 6, Mask the cable tie using masking/insulation tape

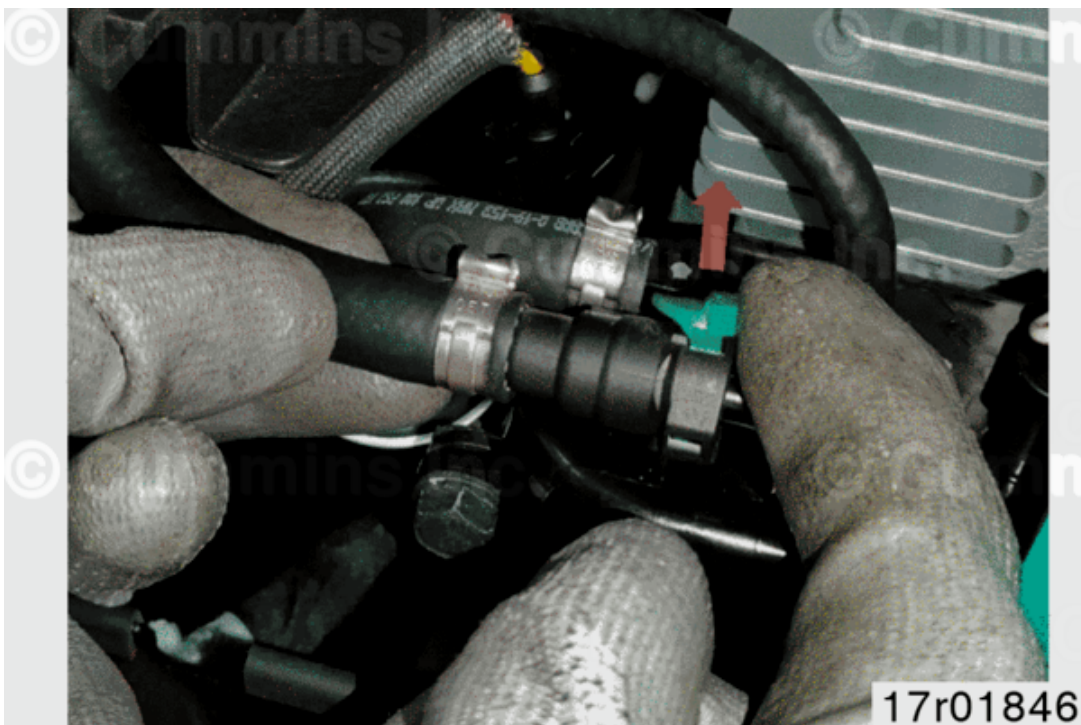


Figure 7, Removal of Fuel Outlet Hose

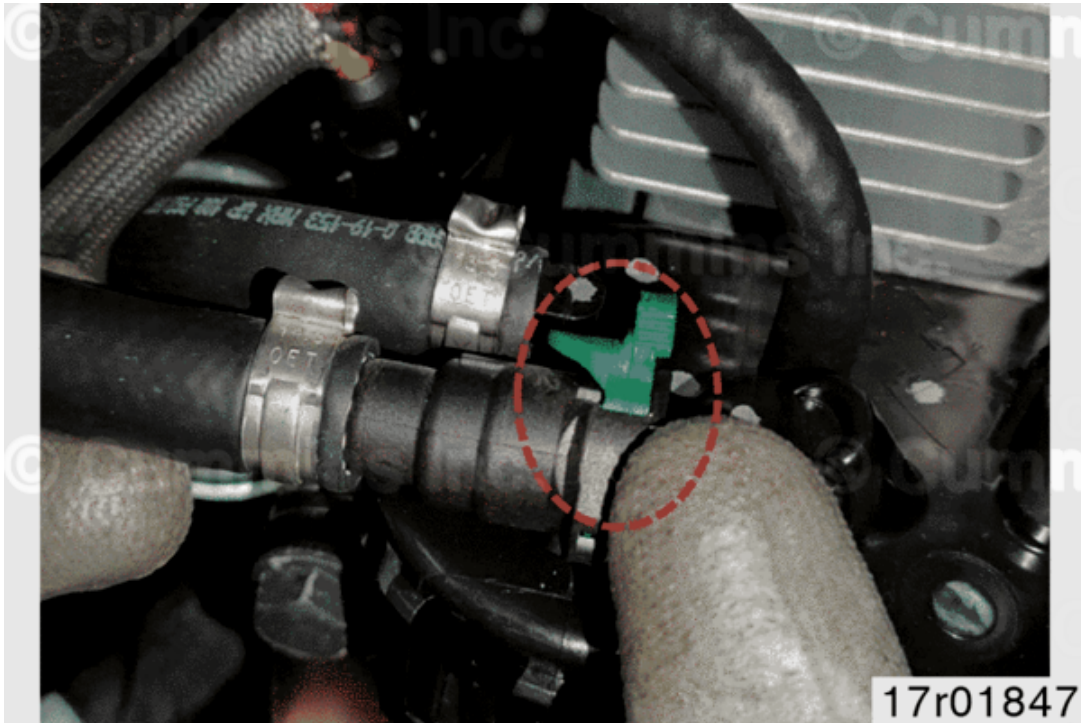


Figure 8, Make sure green quick link lock is on upward direction before pulling the hose



Figure 9, After disconnecting fuel line, ensure that it is completely vertical

7. Pull/disconnect inlet hose from IPM module (PN A057B750) by hand.

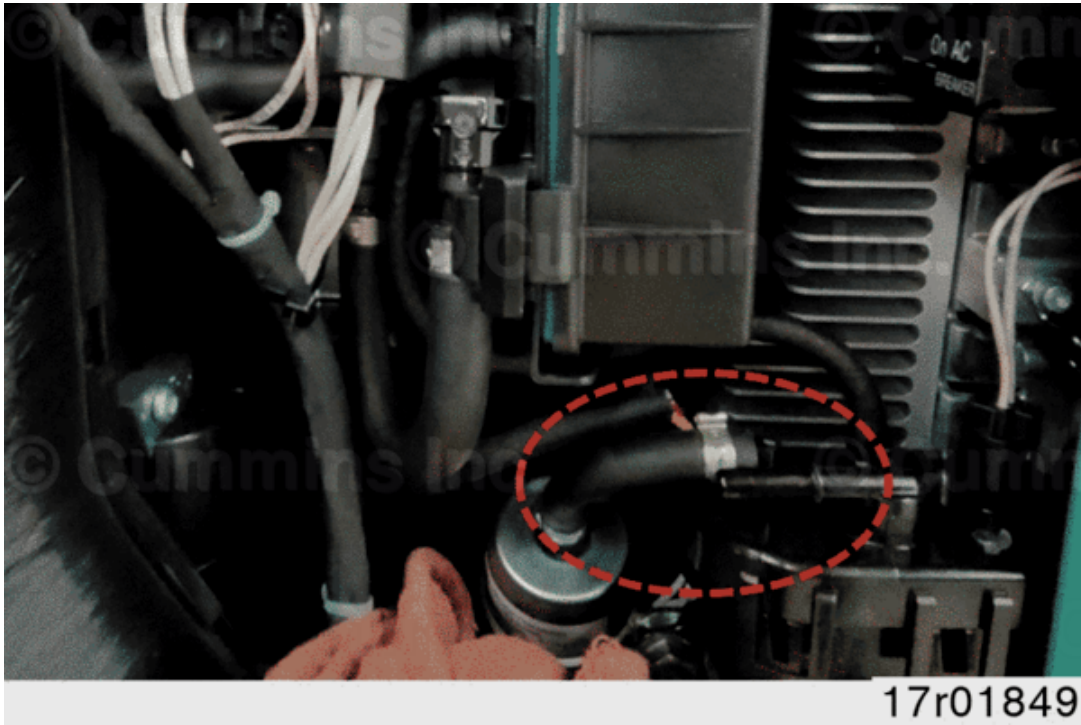


Figure 10, Disconnect hose on IPM coming from the fuel filter



Figure 11, Pull the hose in the direction shown

8. Pull/disconnect inlet hose from fuel filter by hand (hold filter in one hand and pull hose with other hand). Use new fuel hose and install two 13.3 OET clamps.

Warning: Firmly hold the fuel filter while removing the inlet hose, be careful not to pull on the opposite side hose.



Figure 12, Pull/disconnect inlet hose

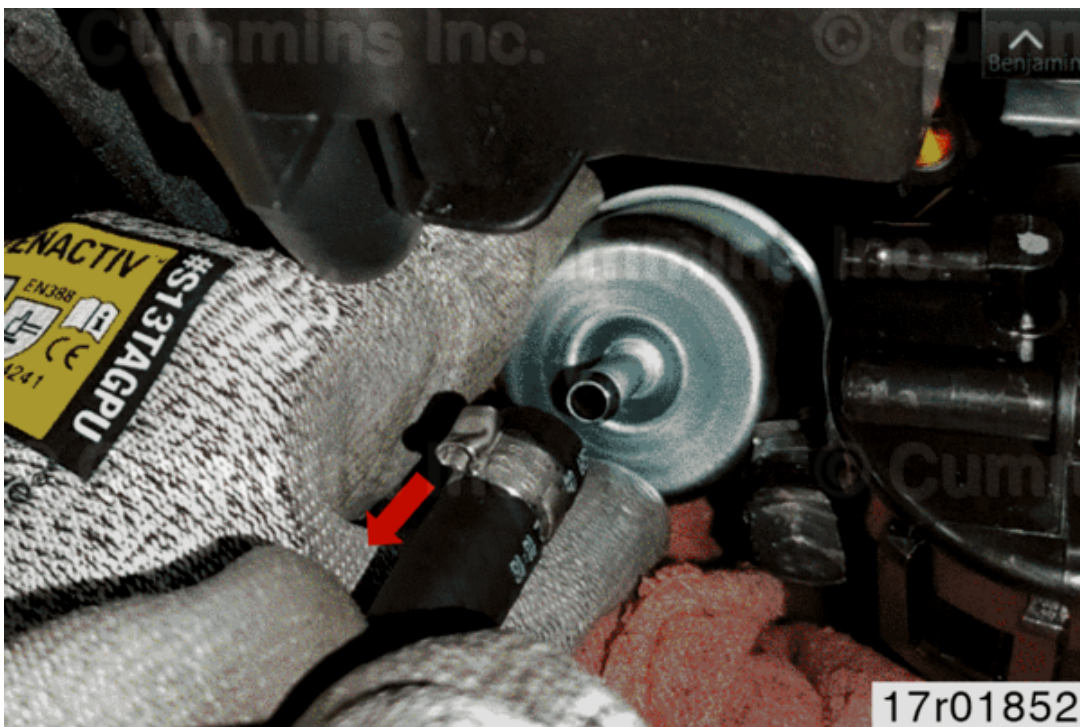


Figure 13, Use new fuel hose from the kit and install two 13.3 OET clamps

9. In order for the repair to mitigate the safety defect and to meet EPA/CARB requirements, you must only use the hose kit A073U493. Do not use bulk or hand cut hose. Connect one end of the new hose to fuel filter, clamp, and then connect the other end to IPM, and clamp.

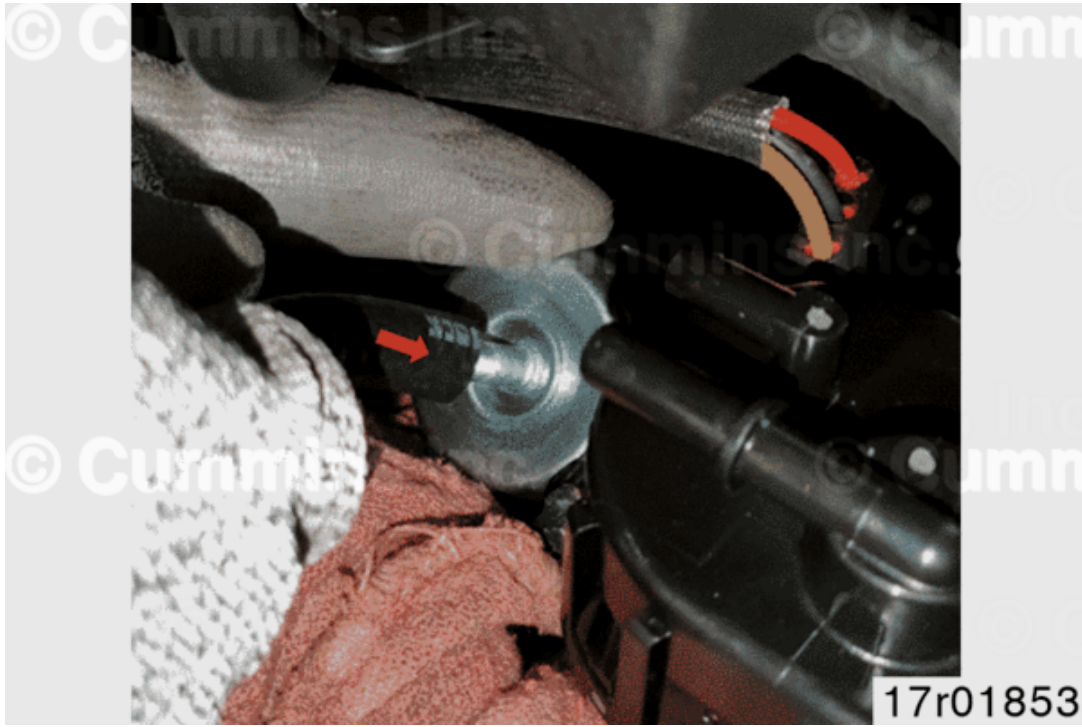


Figure 14, Push new hose in the direction shown and make sure hose is fully onto the inlet connection



Figure 15, Install new clamps on hose (at filter end and at IPM end) before connecting hose to IPM.



Figure 16, Make sure second clamp is placed before connecting hose to IPM

10. Crimp the 13.3 OET clamp in the IPM joint using hand crimping tool. Special tool with length less than 180 mm, special tool length will result in not having to remove the enclosure



Figure 17, OET Clamp Tool with Shortened Length

11. Clamp position should be close to IPM (less than 3 mm). Visually check that the clamp does not seat on barb.

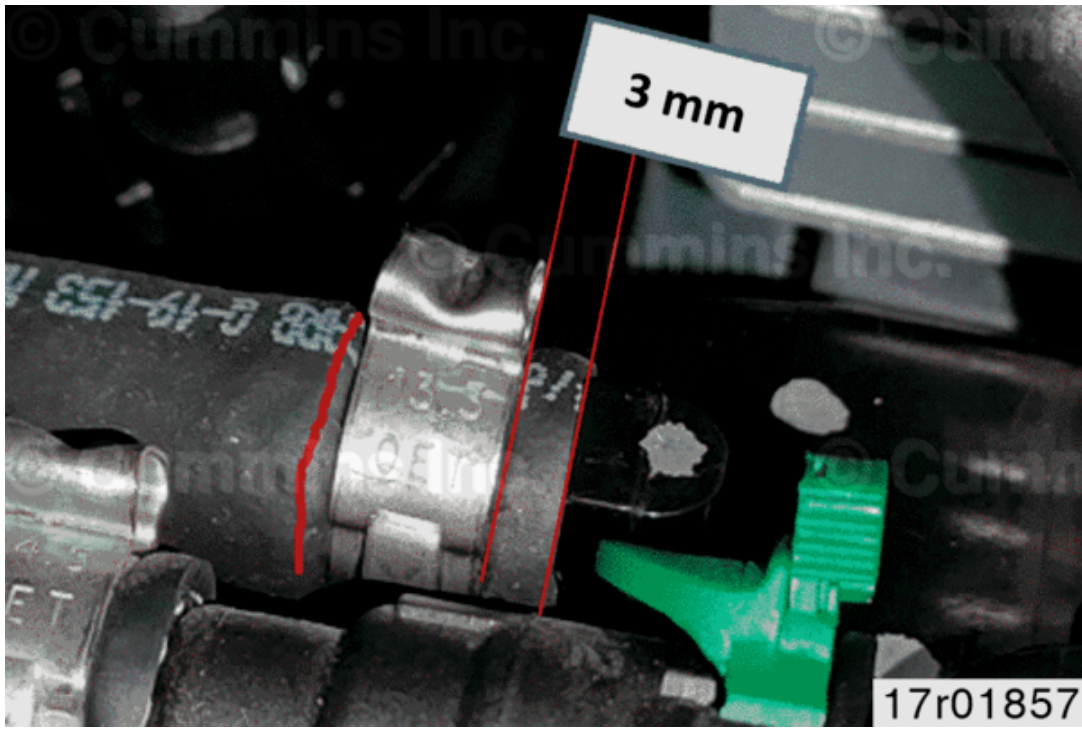


Figure 18, Correct placement of New OET clamp

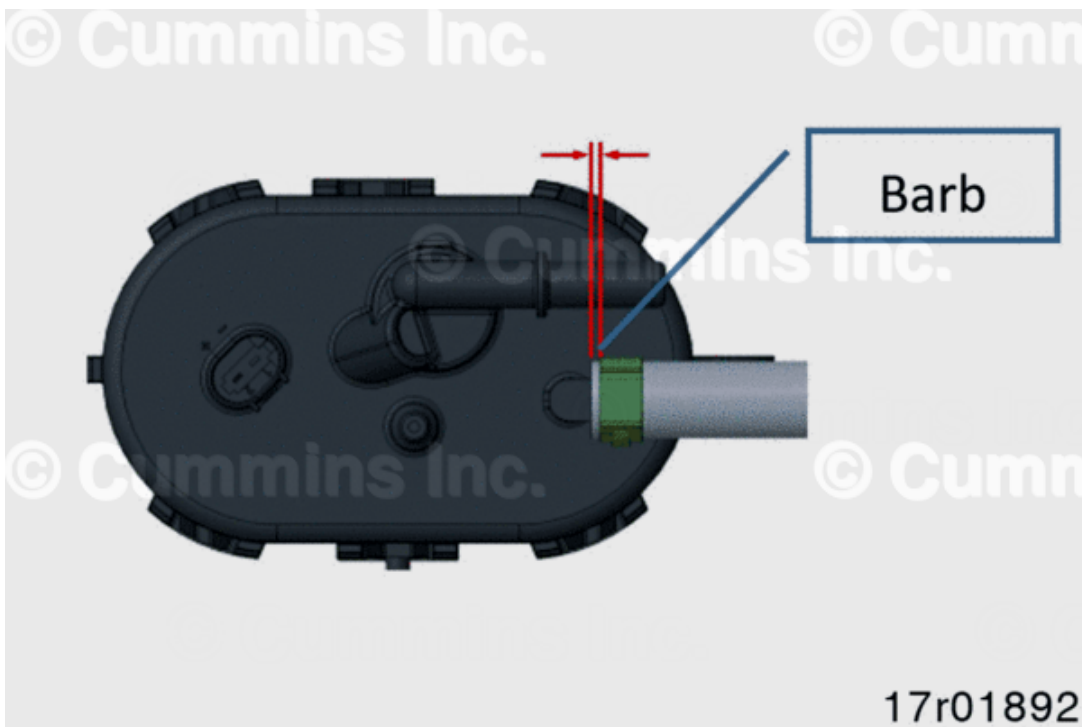


Figure 19, View of Correct Placement of New OET Clamp

12. Crimp the 13.3 OET clamp in the fuel filter joint using hand crimping tool. Make sure not to cut the hose while crimping



Figure 20, Example of Tool Being Used



Figure 21, Shortened Tool Position for Proper Clamping Position

13. Plug the fuel outlet hose using the quick connect feature and lock the connector

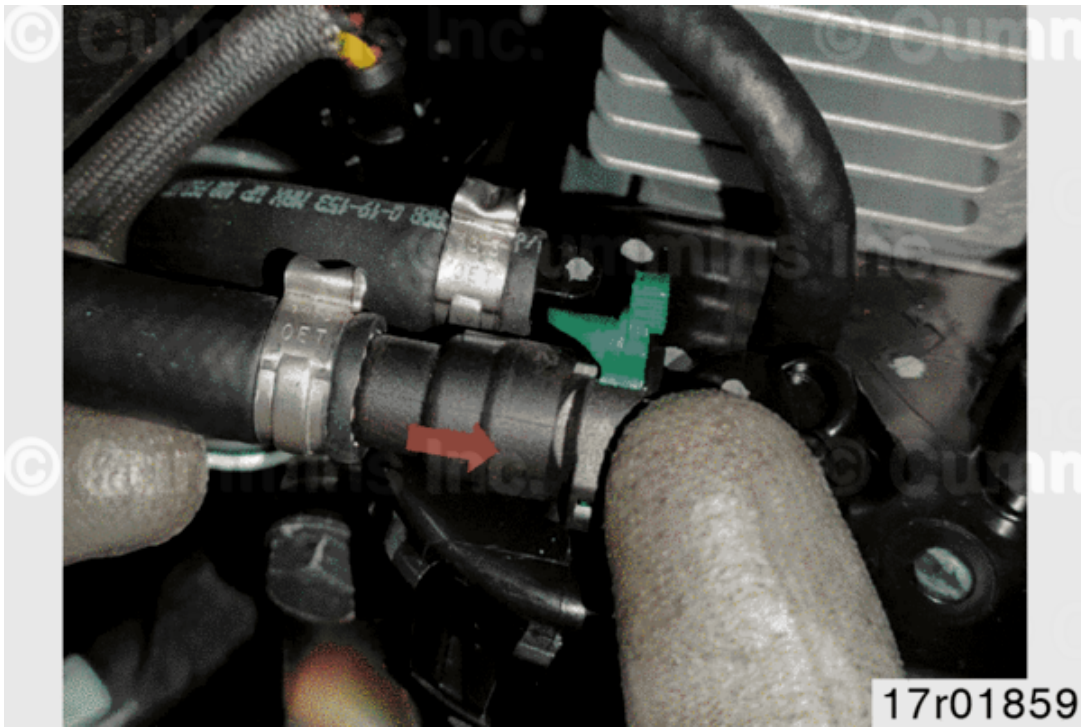


Figure 22, Push the hose in the direction shown

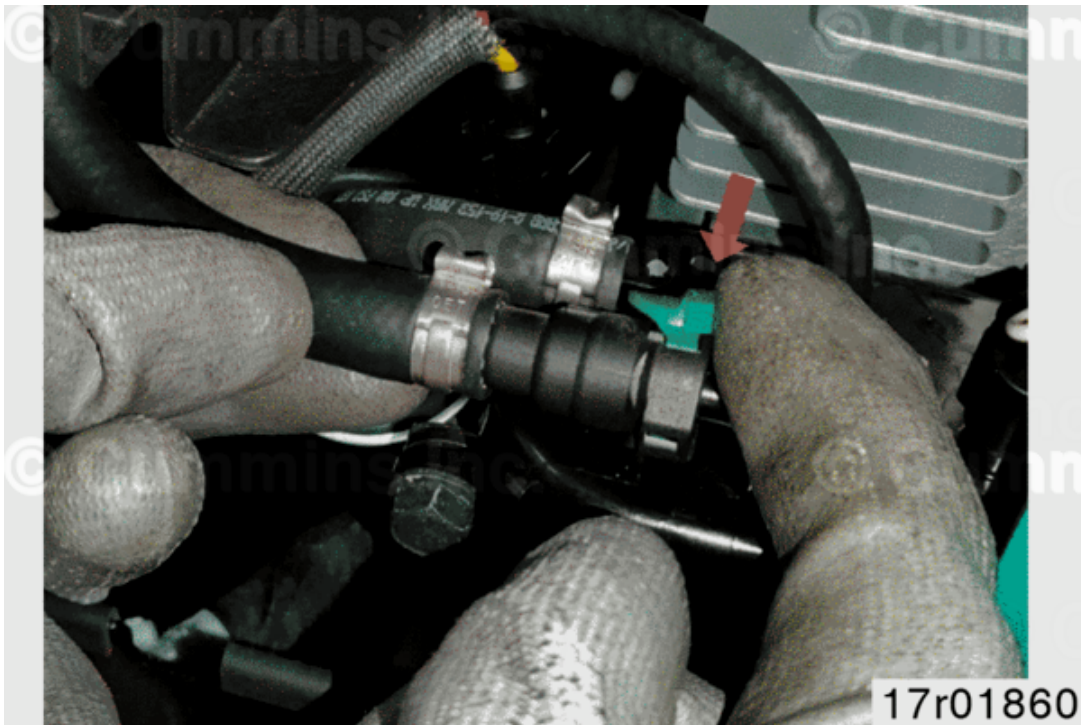


Figure 23, Push the green part in the direction shown to lock

14. Visually make sure all hoses are connected (no unconnected hose).
15. Quality check: Pull on the new hose (pull test) at both joints to make sure hose is clamped properly at filter and IPM side.
16. Reinstall air filter and air cleaner housing. Make sure tabs are locked properly

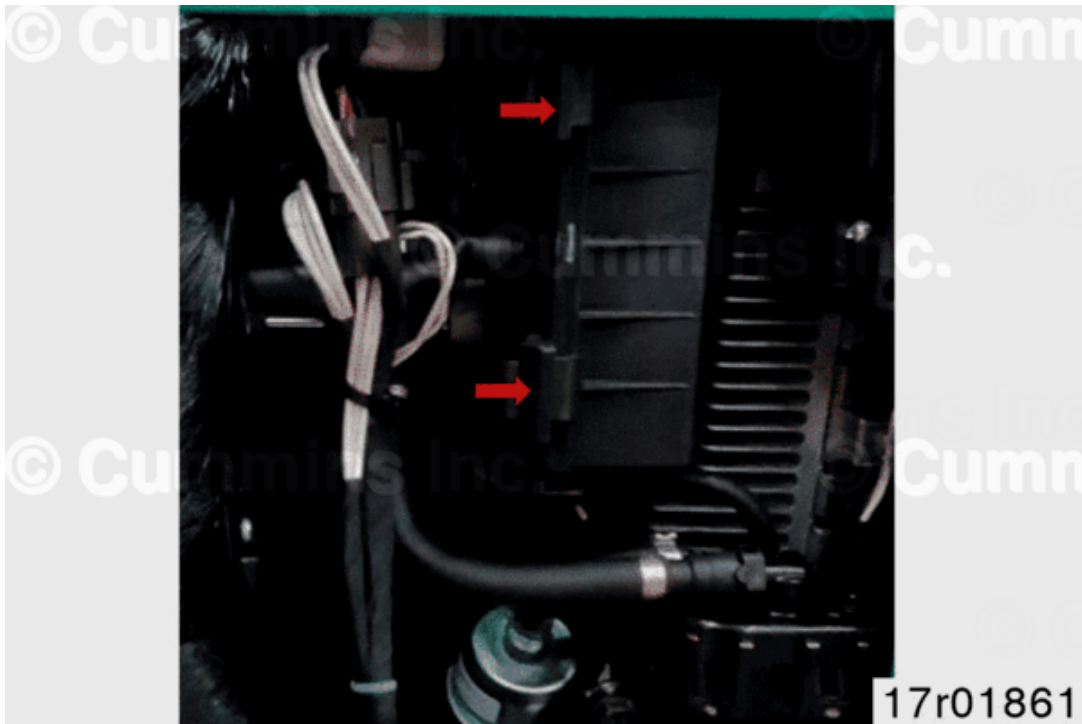


Figure 24, Air Filter Locking Tabs

17. Reinstall the door enclosure and close it by twisting the knob.



Figure 25, Generator Set After Fix

Table 1, Service Parts

Part Description	Part Number
Kit, Hose with Clamps	A073U493

Service parts are available. See Table 1 for part numbers.

Production Status

Implemented for production. See Table 2.

Refer to document **TSB230067-A Safety Campaign #5215 HGLAA Fuel Hose Leak Affected Generator Set Serial Numbers** for a table of affected units.

Table 2, Production Information

Product	GSN First Clean Date	Build Date ¹	Plant
HGLAA	B230206933		Fridley

¹Generator Set/Engine build date can be found on the Generator Set/engine dataplate.

Campaign Filing Instructions:

Fail Code: OFHFLF

SRT Family: IF

Account Code: 65

Authorization Code: 5215

Applicable SRT's:

00-901: 0.4 hours- Administrative time (shop)

00-1AE: 1.0 hours - GENERATOR SET, GENSET COMPLETE R&I

06-101: 0.1 hours - FUEL HOSE/LINE/PIPE (EA) - R&I

17-3AA: 0.2 hours - ENCLOSURE R&I

Document History

Date	Details
2023-3-24	Module Created
2023-4-21	Non-Product Problem Solving (PPS)
2023-5-3	Non-Product Problem Solving (PPS)

Last Modified: 09-May-2023
