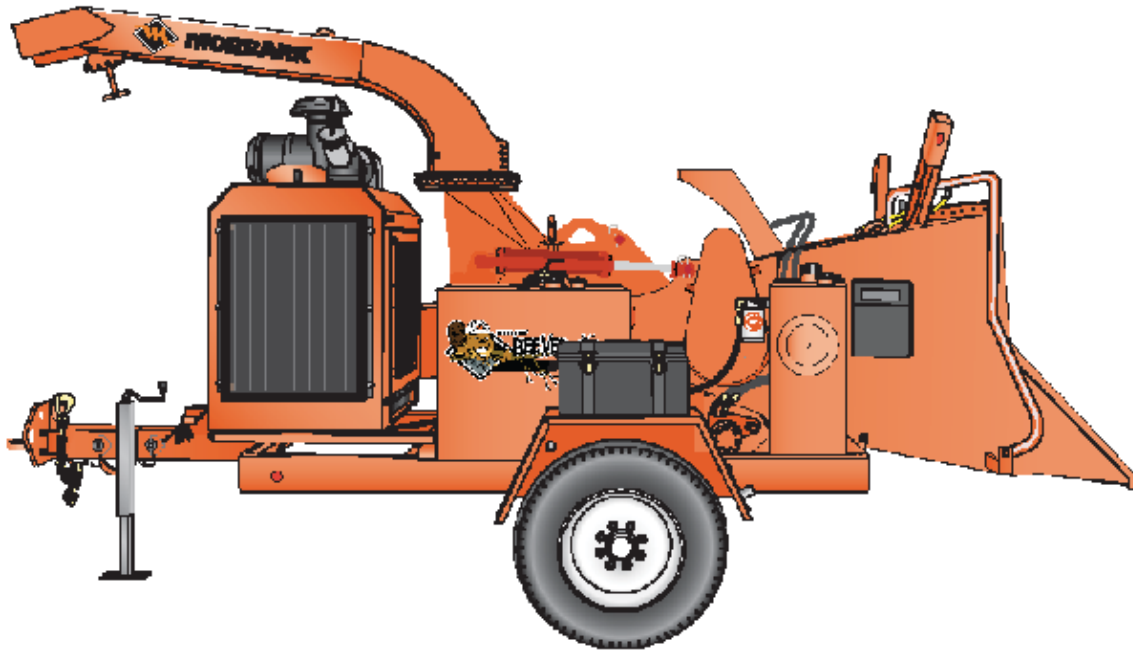


Morbark

Fuel Line Repair Procedure Post Production Modification (PPM-108)



MORBARK

Note: Make sure you read and understand these instructions before performing the procedure. If you are confused or uncertain about the contents of this document, contact your local dealer or Morbark directly at 800-255-8839.

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Overview

This procedure describes the steps required to replace all Fuel Lines between the fuel pump and the engine.

Safety



Confirm machine is shut down fully, and lockout / tagout procedures are complete, prior to performing repair.

Materials are flammable, do NOT smoke near machine while performing repair.



Confirm Engine is cool prior to performing repairs.



Read and understand instructions fully before performing repair.

Personal Protective Equipment (PPE)

For your safety, always adhere to the following guidelines when performing this procedure:

- Always wear personal protective equipment (hard hat, safety goggles/weld mask, work/weld gloves, hearing protection, etc.) when working on this equipment.
- Know and avoid pinch/ crush points.
- Clean all oil spills, and debris around work area to reduce the risk of slips, trips and falls.
- If lifting or leveraging equipment and/or assemblies always make sure all ramps, hoists, lift straps/chains, jacks, jack stands, etc., are rated and approved for the weights being carried/lifted.

Tools Required

- Appropriately rated fuel container
- Wrench set
- Side Cutters
- Two (2) Zip Tie

Kit Provided

Each Kit provided contains:

- One (1) insulated fuel line (Orange),
- Two (2) black fuel lines, and
- Three (3) P-Clamps.



Procedure

- 1) Perform Lockout/Tagout procedures.
- 2) Remove protective enclosure doors from Engine casing. See Figure 1

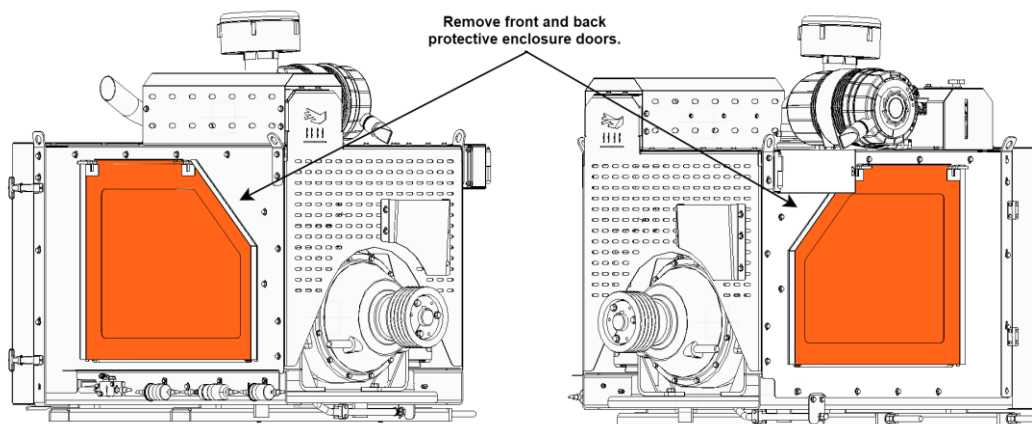


Figure 1

- 3) Loosen and remove the three (3) P-clamps from the insulated (orange) tube between the block manifold and the engine. See Figure 2

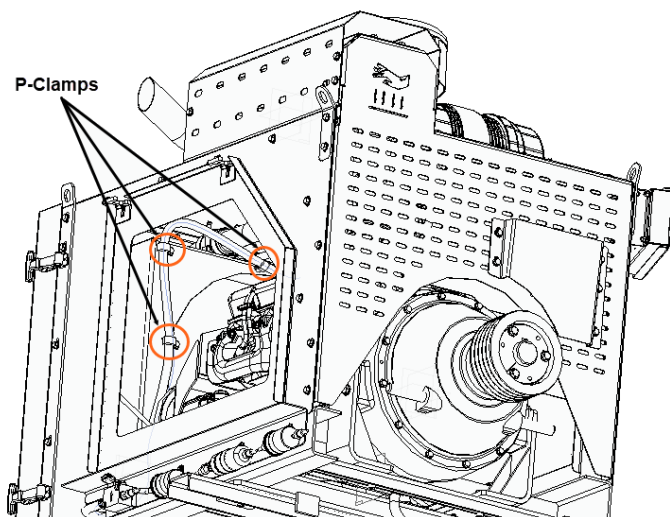


Figure 2

- 4) Using the quick disconnects, detach the insulated tube from the block manifold and the engine. Draining fuel into an appropriately rated container. See Figure 3

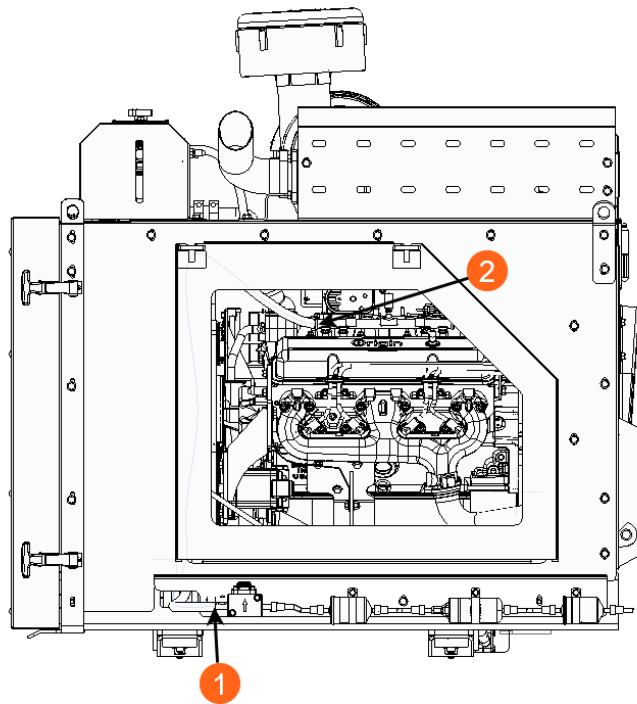


Figure 3

- 5) Remove the two zip ties holding the supply line to the fuel lines.
- 6) Remove bolt holding the fuel filter between the fuel pump and block manifold to the frame. See Figure 4.

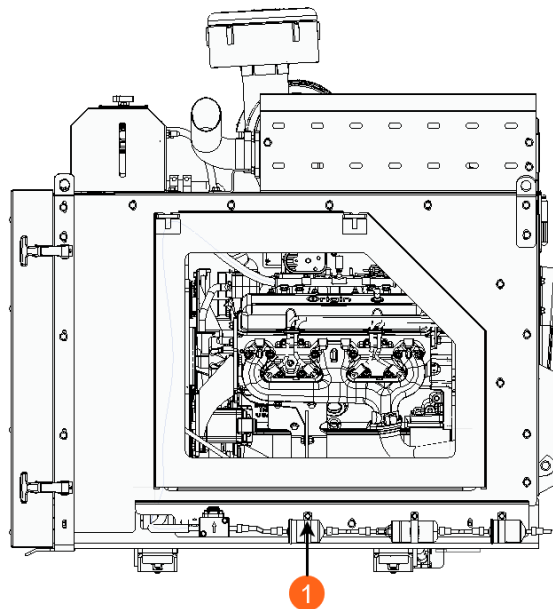


Figure 4

- 7) Using the quick disconnects, remove the fuel lines from the fuel pump and fuel filter. See Figure 5.

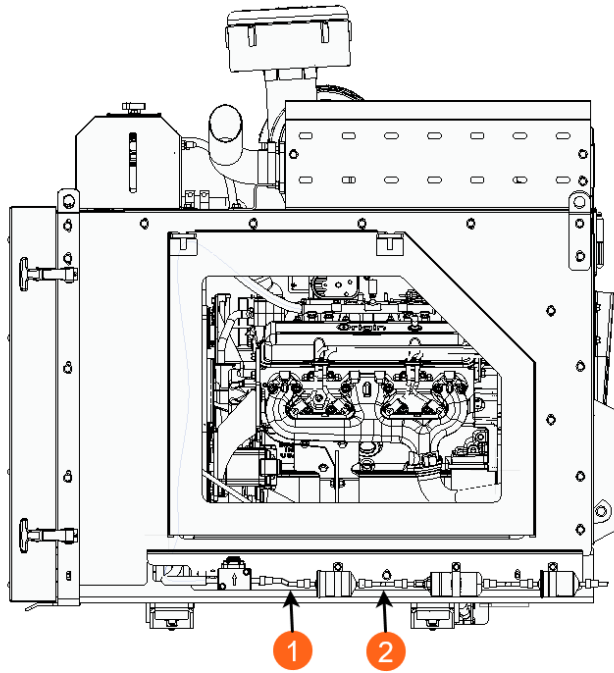


Figure 5

- 8) Remove quick disconnects from the insulated tube and both shorter fuel lines. Set quick disconnects aside for later use.
- 9) Locate provided insulated fuel line.
- 10) Install quick disconnect to both ends of the insulated fuel line and tighten fully.
- 11) Replace all three (3) P-clamps on the insulated tube. See Figure 6.

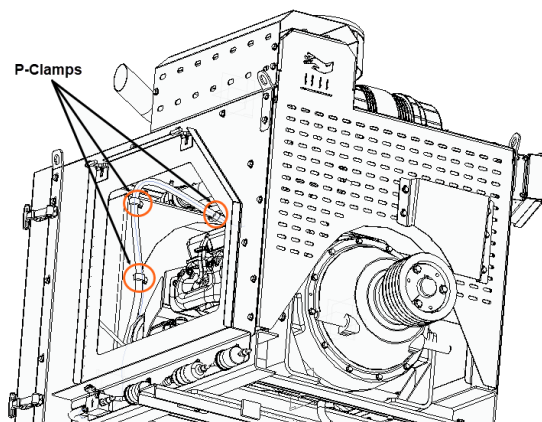


Figure 6

- 12) Locate the two pieces of fuel line in the kit and verify that they match the size of the lines removed from both sides of the fuel filter.

- 13) Loosely install quick disconnects to the new tubes.
- 14) Connect tubes to the fuel filter.
- 15) Replace and tighten the fuel filter between the fuel pump and fuel filter to the frame. See Figure 7.

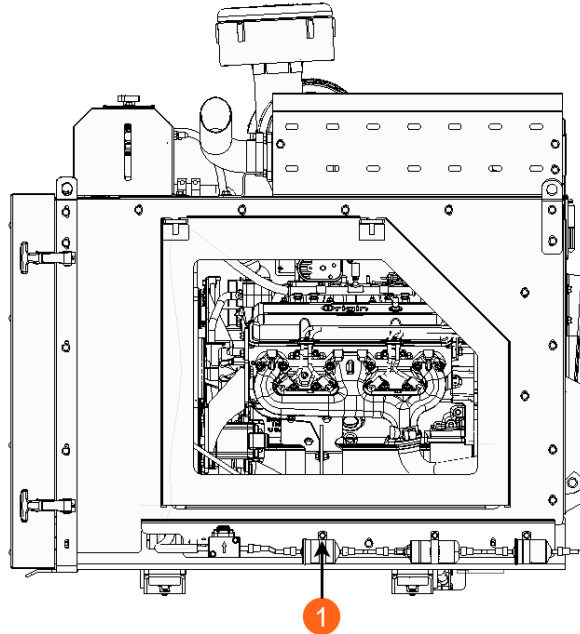


Figure 7

- 16) Connect tubes to the fuel pump and block manifold. See Figure 8.

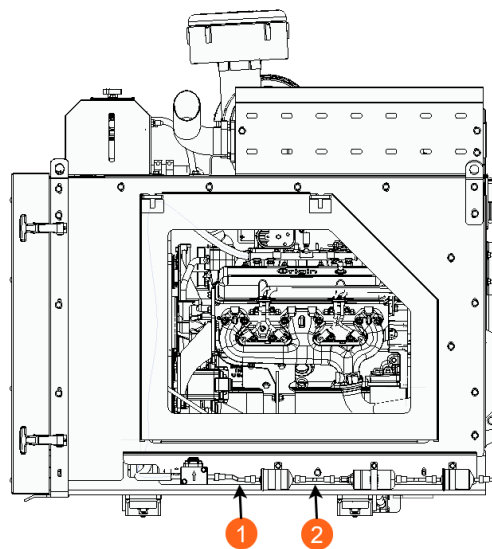


Figure 8

- 17) Fully tighten hose clamps on the quick disconnects.

- 18) Use zip ties to connect the supply line to the new filter lines, to prevent damage to the supply line.
- 19) Confirm all connections are properly tightened.
- 20) Key machine on to pressurize system and confirm there are no leaks.