

2.2.1 Priming the Fuel System - Three-Filter System

While servicing the fuel system, air can enter the system and will need to be purged. If the air in the system is not properly purged, a no-start condition, longer than normal crank times, or electronic service codes related to unstable rail pressure may occur. If a service code is set after work is performed on the fuel system, clear the codes and retest the system.

The Parker-Racor Three-Filter Fuel System requires specific priming pressures to properly prime the lubrication circuit on the high pressure pump. To prevent severe damage to the pump and/or other fuel system components, it is important that only a Detroit ® approved priming tool is used.

Detroit ® approved priming tools for the Parker-Racor Three-Filter Fuel System:

- DAVCO Shop Pro FXP 95
- DAVCO Shop Pro FXP
- ESOC[®] 350
- ESOC[®] 250E

Proceed as follows:

1. Connect the Detroit® approved priming tool. Refer to the Original Equipment Manufacturer (OEM) instructions provided with the tool.
NOTE: If there is a need to stop the machine for any reason (leaks, forgot to connect hose, etc.), depress the STOP button.
2. Turn the priming tool ON.
3. Prime the fuel system for **TWO (2)** minutes.



WARNING:

ENGINE EXHAUST

To avoid injury from inhaling engine exhaust, always operate the engine in a well-ventilated area. Engine exhaust is toxic.



WARNING:

PERSONAL INJURY

To avoid injury before starting and running the engine, ensure the vehicle is parked on a level surface, parking brake is set, and the wheels are blocked.

4. With the priming tool still **CONNECTED** and **PRIMING**, start the engine and run at idle (600 rpm) for **ONE (1)** minute.
5. Turn the priming tool **OFF** and close the ball valve.
6. Increase engine speed to 1500 rpm for **ONE (1)** additional minute.
7. Reduce engine speed to idle (600 rpm).
8. Disconnect the priming tool. Refer to OEM instructions.

NOTE: Starting difficulty may occur until a drive cycle has been completed to completely remove all remaining air from the fuel system.

9. Take the unit for a 15-minute road test to purge all remaining air from the fuel system.

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