

Subject

Fuel System Bleeding in Kubota D902 Diesel Driven Product

SYSTEM OR PARTS AFFECTED

- VMAC Diesel Driven 60cfm Air Compressors (Raptair60)
- VMAC Multifunction Power Systems

OVERVIEW

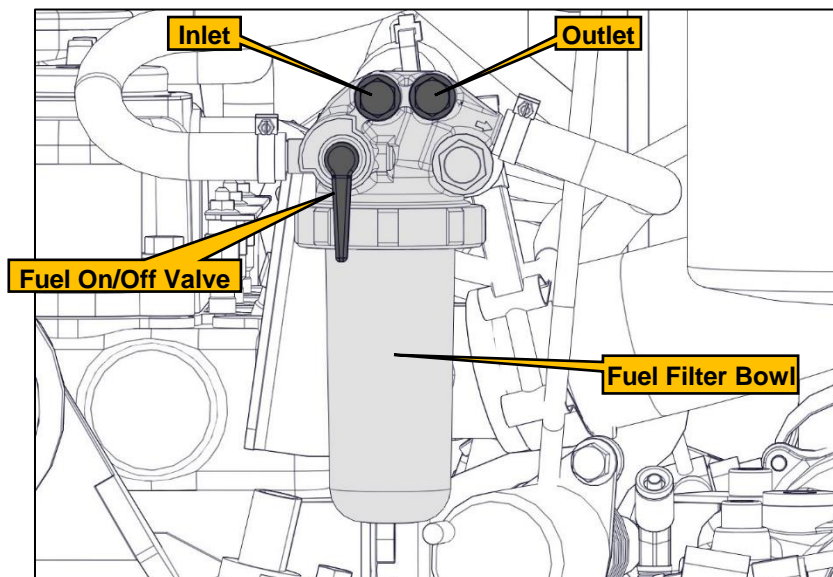
If air is introduced into the fuel system of a diesel engine, the engine can be hard starting, performance can become erratic, or the engine can become inoperative.

BEFORE YOU START

- Confirm the fuel level in the tank is at adequate, and the fuel On/Off valve on the fuel filter bowl assembly is in the ON position (vertical).
- Ensure that the fuel system is sealed, and there are no kinks in the fuel lines. There can be no points where air can be drawn into the fuel system.
- If the Kubota engine draws fuel from the vehicle's fuel tank, ensure that the accessory fuel pump is installed as close as possible to the fuel tank (Maximum 2 feet from the tank). VMAC's accessory fuel pump is a pusher pump, not a suction pump. A fuel filter should be installed before the pump, preferably oriented vertically.

PROCEDURE

1. Turn on the key on the VMAC control panel to the first position (Do not continue to the start position)
2. Listen to ensure that the accessory fuel pump is running (if equipped).
3. If the system is equipped with an optional VMAC fuel tank attached to the end of the Unit, the fuel level in the tank must be higher than the location of the Kubota fuel filter bowl to provide gravity feed. If the tank cannot be filled to this level, use a fuel primer bulb in the pressure line such as used in marine outboard engines. Ensure the bulb is installed in the correct direction(see arrow on bulb for flow direction) and squeeze the primer bulb while bleeding the system until the process is complete.
4. At the fuel filter bowl, loosen the Inlet 10mm bleed screw and allow fuel to flow out. Use a cloth to catch the fuel surplus and allow flow to continue until there are no air bubbles coming out. Tighten the bleed screw.
5. Loosen the outlet bleed screw and bleed until all air bubbles are gone.
6. Verify that the fuel filter bowl is full and start the Kubota engine. The initial starts will be rough until the internal pump and injector lines are cleared of air. Run the engine until fully warmed. Future operation should be trouble free provided the fuel level is not allowed to run low and the fuel system is sealed.



Version	Document	Department	Revision Details	Revised by	Tech	Engineering	Implemented
A	EXT-D60-001	Tech	Document Release	BDJ	DSB	N/A	23Nov2018