

Installation Instructions for the A500034 - External Fuel Pump Kit, Wiring Only D600003/4 Diesel Driven Compressor D600007 RAPTAIR Multi-Function

Operation

The external fuel pump kit will activate the fuel pump when the key switch is in RUN and automatically disable the fuel pump in Standby mode. The fuel pump will reactivate when restarting.

Important Information

The information in this manual is intended for certified VMAC installers who have been trained in installation procedures and for people with mechanical trade certification who have the tools and equipment to properly and safely perform the installation. Do not attempt this installation if you do not have the appropriate mechanical training, knowledge and experience.

Follow all safety precautions for mechanical work. If you have difficulty with the installation, contact VMAC.

To order parts, contact your VMAC dealer. Your dealer will ask for the VMAC serial number, part number, description and quantity. To locate your nearest dealer, call 1-800-738-8622. (or visit www.vmacair.com)

Notice: Manuals and products are subject to change without notice

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| Version | Revision Details | Revised by/date | Approved | Implemented |
|---------|------------------|-----------------|-------------------|-------------|
| A | Release | AJH 11 AUG 2015 | RR/DA 20 Aug 2015 | 20 Aug 2015 |

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Note: Fuel pump plate is not required.

| ITEM | DESCRIPTION | QUANTITY |
|------|-------------------|----------|
| 1 | Fuel Pump Harness | 1 |
| 2 | Tie-wraps | 3 |

Installing Fuel Pump

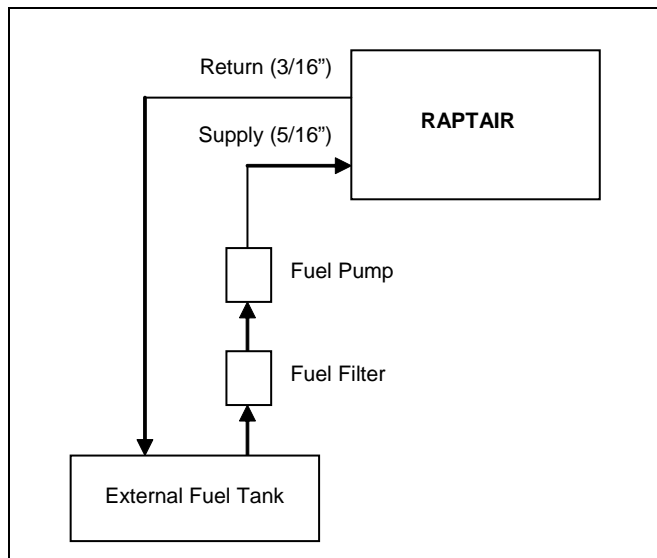


Figure 1 – Installing the fuel pump

1. Ensure the key switch is in the OFF position and remove the service panel.
2. Disconnect the battery, secure terminals so they will not contact battery posts.
3. Install Fuel Filter in supply line before fuel pump as seen in Figure 1 with Diesel compatible hose (not supplied).



Mount filter and pump as close to tank as possible. See your pump's specification for max head/lift distances.

4. Ensure return line is routed back to tank with Diesel compatible hose (not supplied).
5. Ensure all connections use metal clamps to prevent leaks.



Note: Verify direction of the flow of the fuel pump and filter.

Installing the Electrical Connections

1. Locate the Black and Gray 2-Pin Fuel Pump connector at the base of machine, in the same location as the display and key-switch connectors.
2. Connect supplied harness to the Black and Gray 2-Pin Fuel Pump connector.
3. Extend Red and Black blunt cut wires to fuel pump and solder and seal to respective fuel pump connections. Connect to fuel pump, Red being +12V, Black being the negative connection.
4. Reconnect battery.

Bleeding the fuel system.

1. Ensure the fuel level in the tank is at a suitable level and the fuel switch on the fuel filter bowl (behind the service panel) is in the on position (vertical).
2. Check and ensure that the fuel systems is sealed, that there are no fuel leaks, no kinks in the lines and that there are no points where air can be drawn into the fuel system.
3. **Ensure that the electronic primer pump is installed within manufacturer specifications for head and lift distances.**
4. Turn the key on the control panel to the first position (Do not continue to the start position)
5. Listen to hear the primer pump is running.
6. At the fuel filter bowl, (Fig 4 [A]) loosen the inlet screw and allow fuel to flow out. Use a cloth to catch the fuel surplus and allow flow to continue until there are no further air bubbles coming out. Tighten the inlet screw. Next, loosen the outlet screw and bleed until all air bubbles are gone. Tighten the outlet screw.
7. At the injector pump (Fig 4 [B]) locate the Fuel bleed screw on the side of the pump, loosen the Fuel bleed screw and allow the fuel to flow out into a cloth and again wait until the air bubbles are cleared then retighten the Fuel bleed screw.
8. Check the fuel bowl sight glass is full and proceed to start the Raptair. The Initial start will be a little rough until internal pump and injector lines are cleared of air. Run the Raptair until fully warmed.

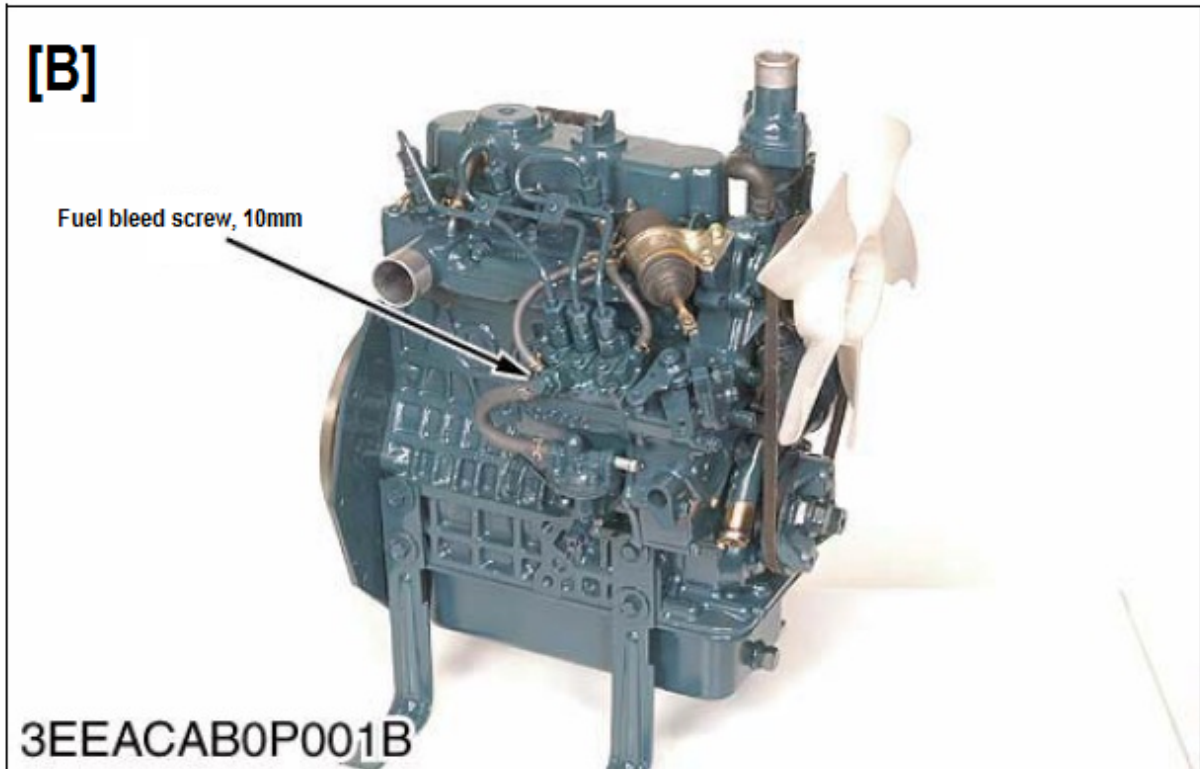
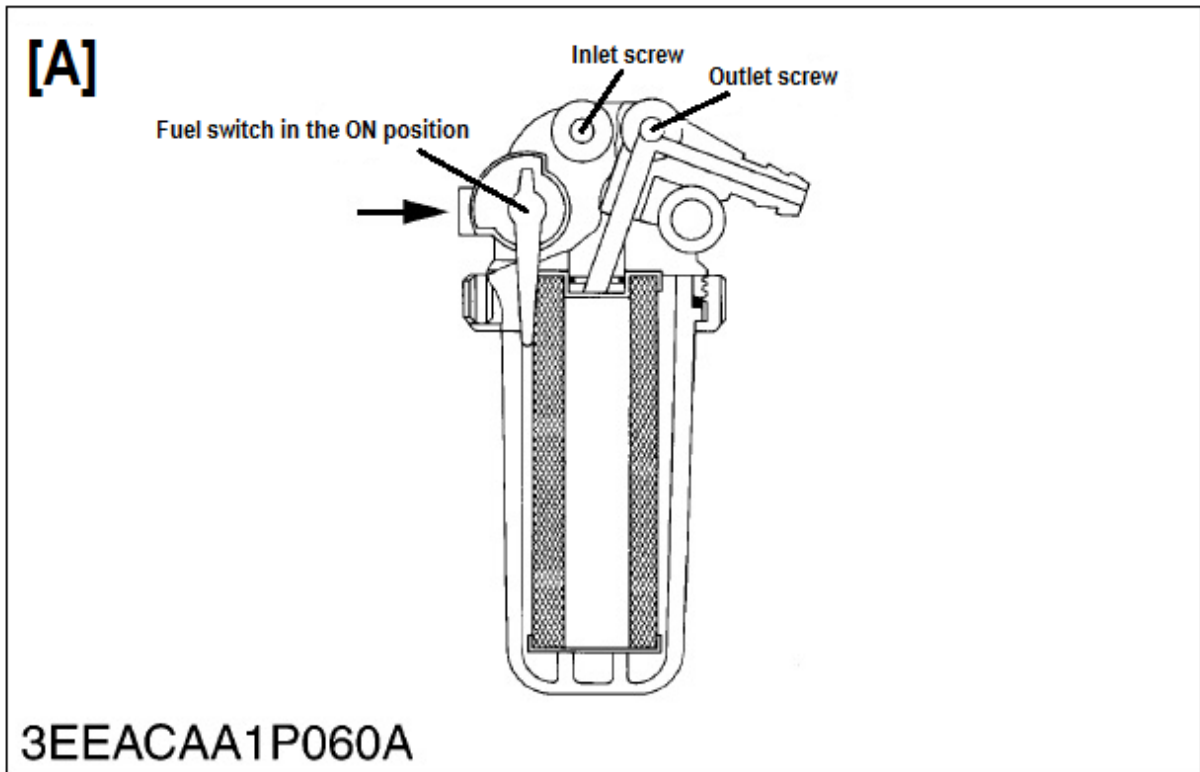


Figure 4

Testing the External Fuel Pump

1. Turn the key from OFF to RUN, the fuel pump should activate.
2. Turn the key from RUN to OFF, the fuel pump should deactivate.
3. Turn the key to RUN and start the compressor system, the fuel pump should activate and run the entire time.
4. Do not discharge air, wait until the unit enters STANDBY mode (engine shutdown and LED beacon illuminates).
5. In STANDBY mode, the fuel pump should be deactivated.
6. Dump air to allow the system to restart, the fuel pump should reactivate.
7. Turn the system off and key switch to OFF.