



Fuel Pump Replacement Kit

Kubota Engines

Part No. 112-8400

Form No. 3358-320 Rev A

Installation Instructions



Caution



If you leave the key in the ignition switch, someone could start the engine. Accidental starting of the engine could seriously injure you or other bystanders.

Remove the key from the ignition switch before you do any maintenance.

1. Disengage the PTO and set the parking brake.
2. Stop the engine and remove the key from the ignition switch. wait for all moving parts to stop before leaving the operator's position.
3. Disconnect the battery.
4. Remove the existing fuel pump and plug the fuel hoses to prevent leakage. Retain all hardware for future use
5. Insert the supplied bracket over the pump as shown figure 1.
6. Connect the electrical jumper wire to the new fuel pump wire harness (Fig. 1).

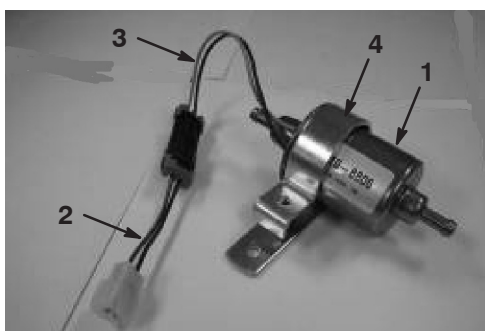


Figure 1

- | | |
|---------------------------|---------------------------|
| 1. Fuel pump | 3. Fuel pump wire harness |
| 2. Electrical jumper wire | 4. Bracket |

Note: This jumper connects the new fuel pump to the existing vehicle wire harness for most applications. If replacing a fuel pump, part number 99-3464 with a ring and bullet electrical connection, as shown in figure 2, continue to step A. Otherwise, proceed to step 7.

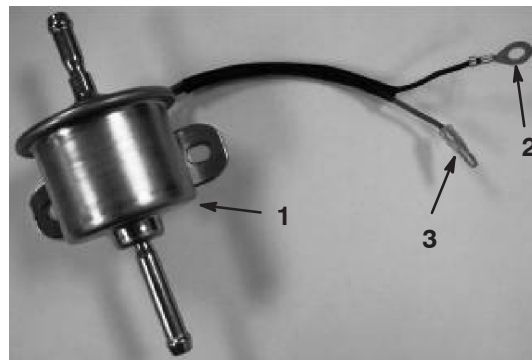


Figure 2

- | | |
|---------------------------------|---------------------|
| 1. Fuel pump (Part No. 99-3464) | 2. Ring terminal |
| | 3. Bullet connector |

- A. Cut the supplied jumper wire at the location shown in figure 3.

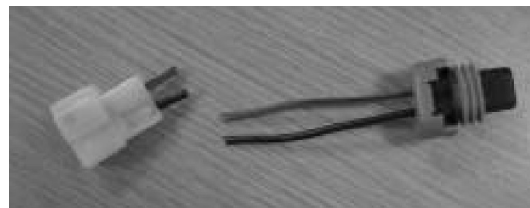


Figure 3

- B. Strip each wire 1/4 inch (Fig. 4).

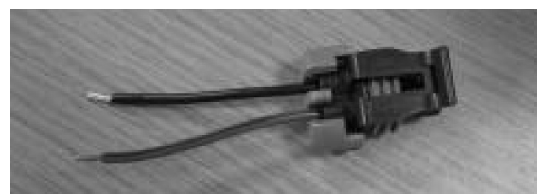


Figure 4

- C. Place the supplied splice terminal on the red wire and the supplied ring terminal on the black wire (Fig. 5). Crimp the terminals in place and heat shrink the crimped side of the splice terminal.

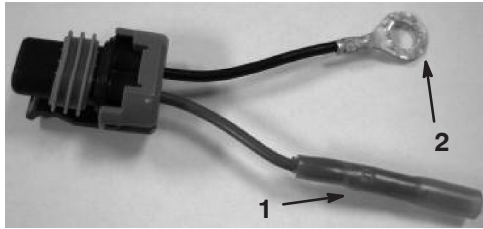


Figure 5

1. Splice terminal 2. Ring terminal

- D. Cut the bullet connector off of the machine wire harness (Fig. 6). Strip 1/4 inch off the end and crimp on new splice terminal connector installed in step C. Heat shrink the newly crimped side of the splice terminal.

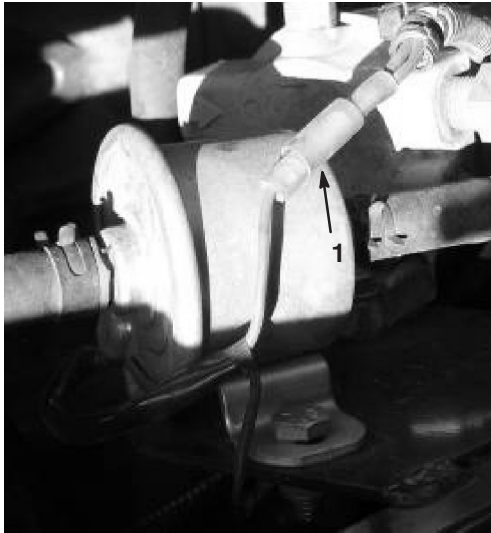


Figure 6

1. Bullet connector

- E. Using the enclosed bolt, secure the black wire ring terminal and the fuel pump bracket to the machine (Fig. 7). Use the bracket mounting holes closest to the fuel pump. Torque the bolt to 100 inch-pounds.

7. Using the enclosed bolt, secure the fuel pump bracket to the machine (Fig. 7). Use the bracket mounting holes closest to the fuel pump. Torque the bolt to 100 inch-pounds.

Note: When mounting the fuel pump on Groundsmaster 3500-D and Reelmaster 3100-D traction units, use the longer spacer and screw supplied in the kit.

Note: It is not necessary to use the other bolt hole on the clamp. If desired, the second bolt hole may be used with one of the original mounting bolts. It may be necessary to drill a new mounting hole in order to use the second bolt.

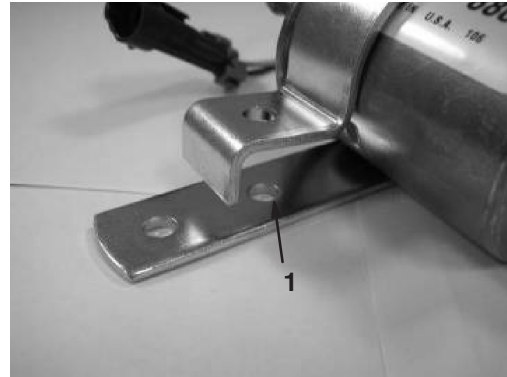


Figure 7

1. Use this clamp mounting hole

8. Install the fuel hoses to the pump. Make sure the fuel hose attached to the "Out" connector (stamped on the flanged end of the pump) goes to the fuel/water separator. Secure the fuel hose at both ends of the fuel pump, using the original hose clamps.
9. Connect the electrical wires from the fuel pump to machines wiring harness.
10. Test the new pump by turning the ignition switch to the "On" position and bleeding air and fuel out of the fuel filter bleed screw.

Note: On Groundsmaster 328 traction units with serial numbers prior to 269999999, it is possible that the 7.5 amp. fuse which powers the electric fuel pump and the engine run solenoid could be over stressed do to the higher current draw of the new fuel pump and fail after some period of time. If this 7.5 amp. fuse (located in the #4 position of the fuse block) fails, replace it with a 10 amp. fuse to resolve the problem.