

NAME: ELECTRIC FUEL PUMP KIT

PART NUMBER(S): 24643

These instructions give the procedure for installing the Electric Fuel Pump Kit on the 8000 Series Tractors.

1.0 PREPARING THE TRACTOR

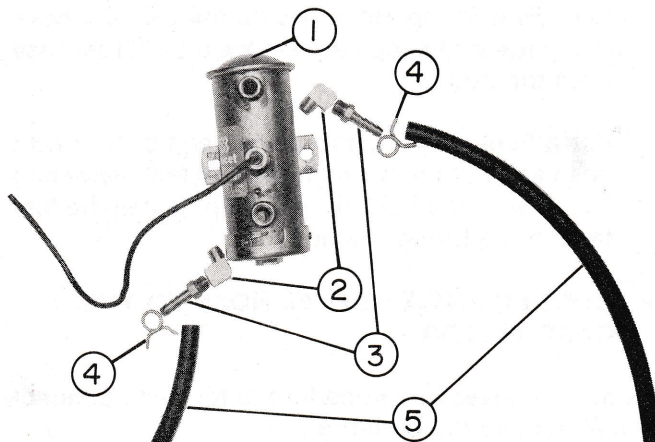
This section gives the procedure for preparing the tractor for the installation of the Electric Fuel Pump Kit.

1. Remove the hood from the tractor.
2. Remove the Rear Fender and Control Cover Plate from the tractor.
3. Close the fuel tank valve.
4. Disconnect the fuel line from the fuel valve and remove the fuel tank from the tractor. Do not put the fuel tank near fire.

WARNING: Gasoline is very flammable.

2.0 PREPARING THE FUEL PUMP FOR INSTALLATION

This section gives the procedure for preparing the fuel pump for installation. The parts to be installed on the fuel pump before installation are shown in figure 2.0-1.

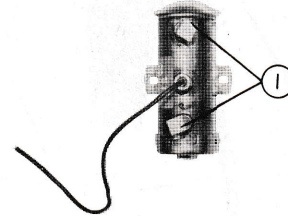


- | | |
|-----------------------|----------------------|
| 1 - Fuel Pump | 4 - Fuel Hose Clamps |
| 2 - 90° Elbow Fitting | 5 - Fuel Hose |
| 3 - Connectors | |

Figure 2.0-1

To continue its program of quality and design improvement, the manufacturer reserves the right to change specifications, designs and prices without notice and incurring obligation.

1. Put a drop of sealant on the threads of 90° Elbows. Engage the elbow threads in the Fuel Pump as shown in figure 2.0-2. Do not make the elbows too tight, see step 2 below.



1 - 90° Elbows

Figure 2.0-2

2. Put a drop of a sealant on the threads of the Connectors and engage the threads in the elbows and tighten. The Elbows and Connectors must be turned to the position shown in figure 2.0-3.

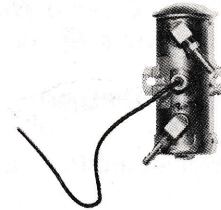
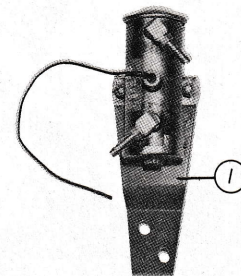


Figure 2.0-3

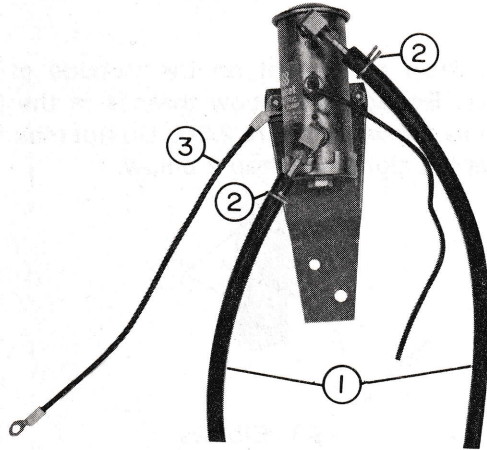
3. Fasten the Fuel Pump to the Fuel Pump Bracket with the 1/4" x 7/8" bolts and 1/4" lock nuts as shown in figure 2.0-4.



1 - Fuel Pump

Figure 2.0-4

- Put a Fuel Hose Clamp on the end of each Fuel Hose.
- Put the short Fuel Hose on the Fuel Pump inlet and the long Fuel Hose on the Fuel Pump outlet as shown in figure 2.0-5. Fasten the Fuel Hose in position with the Fuel Hose Clamps.



1 - Fuel Hose
2 - Fuel Hose Clamps
3 - Fuel Pump Ground Wire

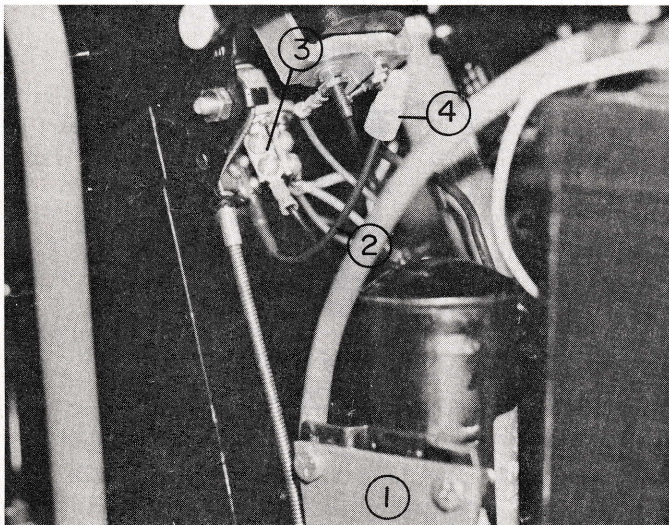
Figure 2.0-5

- Fasten the Fuel Pump Ground Wire to the Fuel Pump Bracket as shown in figure 2.0-5.

3.0 INSTALLING THE FUEL PUMP

This section gives the procedure for installing the fuel pump.

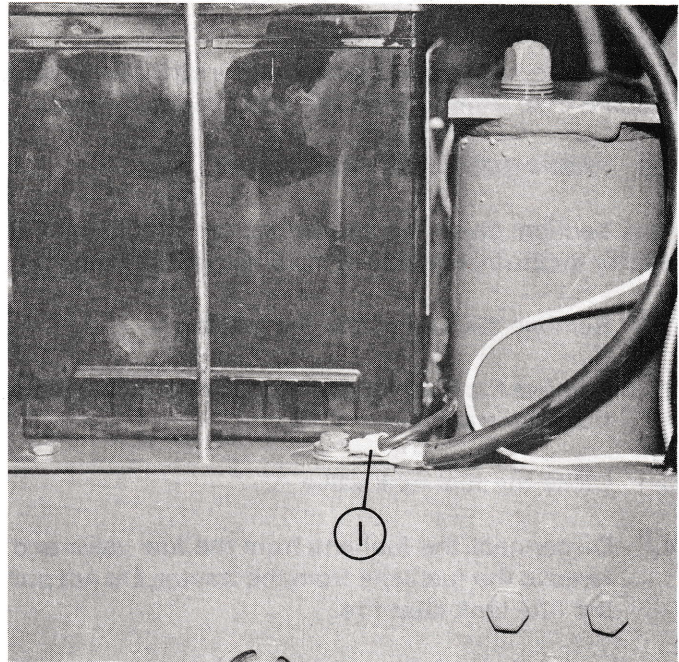
- Fasten the Fuel Pump Bracket to the tractor frame with the 3/8" x 3/4" bolts and 3/8" lock nuts. See figure 3.0-1.



1 - Fuel Pump Bracket 3 - Ignition Switch
2 - Fuel Pump Wire 4 - Wire Nut

Figure 3.0-1

- Connect the Fuel Pump Wire to the "I" terminal on the ignition switch. Fasten the Fuel Pump Wire to the wire from the Fuel Pump with the Wire Nut as shown in figure 3.0-1.
- Fasten the Fuel Pump Ground Wire to the tractor frame as shown in figure 3.0-2.



1 - Fuel Pump Ground Wire

Figure 3.0-2

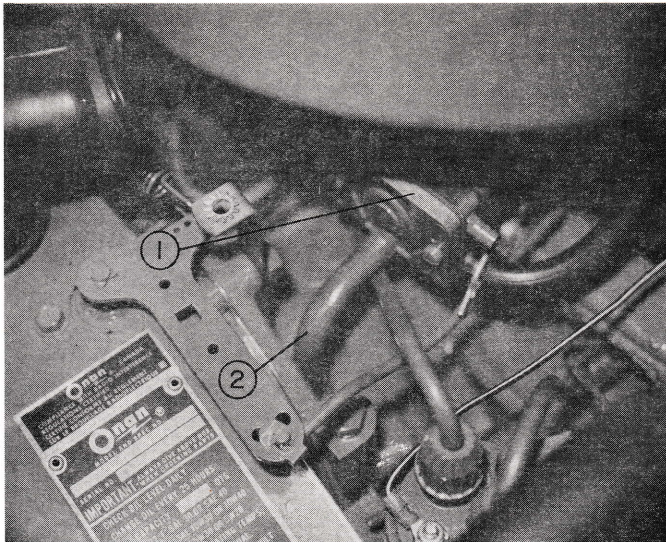
- Install the short Fuel Pump Hose beside the old fuel hose that goes to the fuel tank. Install the long Fuel Pump Hose beside the old fuel hose that goes to the engine. Remove the old fuel hose from the tractor.
- Put a Fuel Hose Clamp on the end of the short hose and put the hose on the fuel tank valve and fasten with the Fuel Hose Clamp. Install the fuel tank in the tractor frame.

4.0 CONNECTING THE FUEL HOSE TO THE CARBURETOR

This section gives the procedure to follow to connect the fuel hose to the carburetor.

4.1 ONAN B43M and B48M ENGINE MODIFICATION

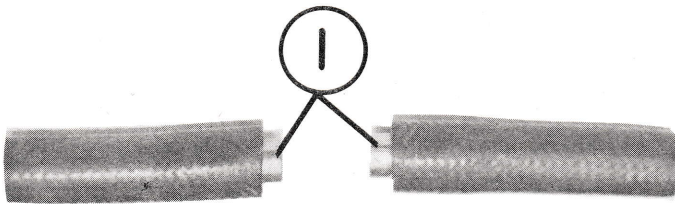
- Remove the Vacuum Hose shown in figure 4.0-1 from the engine and Engine Fuel Pump.



1 - Engine Fuel Pump
2 - Vacuum Hose

Figure 4.0-1

2. Cut the hose in two equal lengths and put a Flow Restrictor Pin in the end of each section of the hose as shown in figure 4.0-2. Put one section on the Engine Fuel Pump and the other on the engine where the Vacuum Hose was removed.



1 - Flow Restrictor Pin

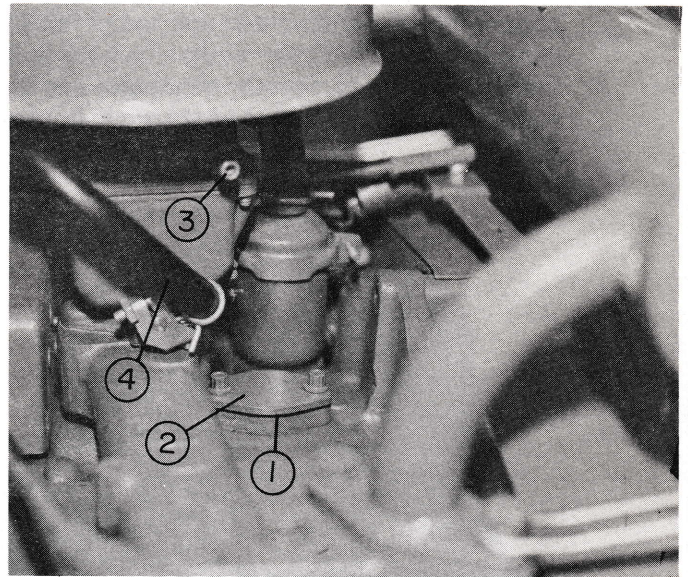
Figure 4.0-2

3. Cut the new Fuel Hose that connects to the Electric Fuel Pump to the length needed to connect to the Engine Fuel Pump.
4. Put a Fuel Hose Clamp on the end of the fuel hose and connect the hose to the Engine Fuel Pump and fasten with the Fuel Hose Clamp.

4.2 ONAN CCKA ENGINE MODIFICATION

1. Remove the fuel line from the engine fuel pump and carburetor and then remove the engine fuel pump.

2. Put a Cover Gasket and Cover Plate over the fuel pump hole in the engine. Fasten the Cover Plate to the engine with the bolts that were used to fasten the fuel pump to the engine. See figure 4.0-3.



1 - Cover Gasket
2 - Cover Plate
3 - Connector
4 - Fuel Hose from Electric Fuel Pump

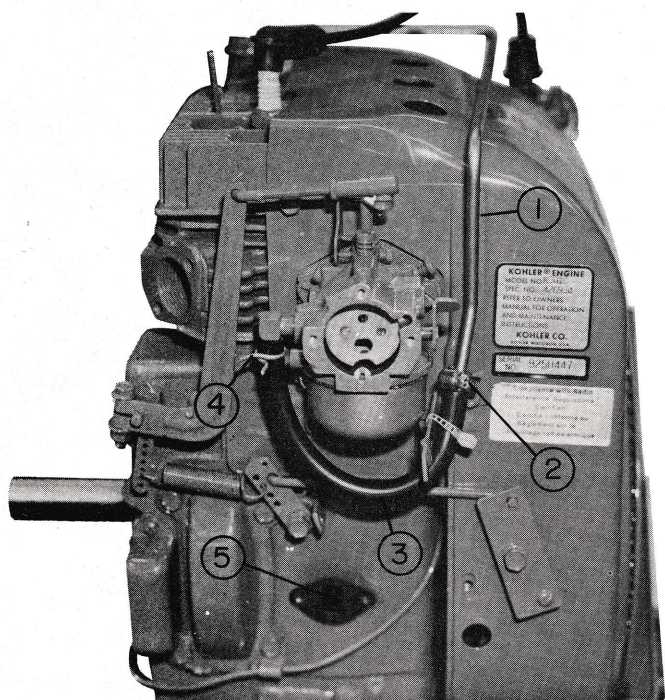
Figure 4.0-3

3. Remove the old connector from the carburetor and replace it with the connector in the kit. See figure 4.0-3.
4. Cut the new Fuel Hose that connects to the Electric Fuel Pump to the length needed to connect to the carburetor connector.
5. Put a Fuel Hose Clamp on the end of the fuel hose and put the hose on the carburetor and fasten with the Fuel Hose Clamp.

4.3 KOHLER 301 ENGINE MODIFICATION

1. Cut the new Fuel Hose that connects to the Electric Fuel Pump to the length needed to connect to the copper fuel line where the old fuel hose was connected.
2. Put a Fuel Hose Clamp on the end of the fuel line and put the hose on the copper fuel line and fasten with the Fuel Hose Clamp.

3. Remove the engine fuel pump and the fuel line that goes to the carburetor.
4. Cut the copper fuel line off 6 inches (15 cm) below the bend. Put the Adjustable Hose Clamp on the short piece of fuel hose and put the hose on the copper fuel line and tighten the clamp. Put a Fuel Hose Clamp on the other end of the hose and put the hose on the carburetor connector and fasten with the Fuel Hose Clamp as shown in figure 4.0-4.



- 1 - Copper Fuel Line
- 2 - Adjustable Hose Clamp
- 3 - Fuel Hose
- 4 - Fuel Hose Clamp
- 5 - Engine Fuel Pump Hole

Figure 4.0-4

5. Put a Cover Gasket and Cover Plate over the engine fuel pump hole shown in figure 4.0-4. Fasten the Cover Plate to the engine with the bolts that were used to fasten the fuel pump to the engine.
6. Install the Control Cover Plate, Rear Fender and Hood. Open the fuel tank valve.

