



Bio-Diesel Fuel Hose Kit

Reelmaster 2000 and Workman Vehicle

Part No. 110-9029

Installation Instructions

Note: This kit is intended for use on machines with serial numbers 220000001 thru 259999999.

! **Danger** !

Under certain conditions, diesel fuel and fuel vapors are highly flammable and explosive. A fire or explosion from fuel can burn you and others and can cause property damage.

- Use a funnel and fill the fuel tank outdoors, in an open area, when the engine is off and is cold. Wipe up any fuel that spills.
- Do not fill the fuel tank completely full. On the Reelmaster 2000, add fuel to the fuel tank until the level is 1/4 to 1/2 in. (6 to 13 mm) below the bottom of the filler neck and on the Workman vehicle, add fuel to the fuel tank until the level is 1 in. (25 mm) below the bottom of the filler neck. This empty space in the tank allows the fuel to expand.
- Never smoke when handling fuel, and stay away from an open flame or where fuel fumes may be ignited by a spark.
- Store fuel in a clean, safety-approved container and keep the cap in place.

1. On Workman vehicles, raise the bed (if so equipped) and place the safety support onto the extended lift cylinder to hold up the bed.
2. Park the machine on a level surface, lower the cutting units (Reelmaster 2000), stop the engine, engage the parking brake and remove the key from the ignition switch.
3. Clean all areas where the fuel hoses are connected to the components and loosen the hose clamps.

Note: Before removing the fuel hoses from the machine, note how the hoses are routed and where they are secured to the machine.

Note: Use the appropriate installation instructions for your machine.

Reelmaster 2000

1. Disconnect and remove the fuel hoses from the following locations:
 - From fuel tank to shut-off valve
 - Fuel shut-off valve to water separator filter head
 - Water separator filter head to engine
 - Fuel tank return hose

Note: Retain all hose clamps for re-use and note the locations of all the cable ties.

2. Use the following chart to determine the correct hose diameter and length for the required application.

Diameter	Length to cut	Application
1/2	1.75 inches	From fuel tank to shut-off valve
5/16	15 inches*	Fuel shut-off valve to water separator filter head
5/16	48 inches*	Water separator filter head to engine
3/16	68.5 inches	Fuel tank return hose

* Cut these hose lengths from the 5/16 x 63 inch long hose included

3. Secure the hoses with the hose clamps previously removed.
4. Secure the fuel hoses with cable ties.

Note: Fuel hoses must not be routed or clamped with any electrical wires or cables.

Workman Vehicle

1. Disconnect and remove the fuel hoses from the following locations:
 - From fuel tank to water separator filter head
 - Water separator filter head to engine
 - Fuel tank return hose

Note: Retain all hose clamps for re-use and note the locations of all the cable ties.

2. Use the following chart to determine the correct hose diameter and length for the required application.

Diameter	Length to cut	Application
5/16	28 inches*	From fuel tank to water separator filter head
5/16	11 inches*	Water separator filter head to engine
1/4	42 inches	Fuel tank return hose

* Cut these hose lengths from the 5/16 x 63 inch long hose included

3. Secure the hoses with the hose clamps previously removed.

4. Secure the fuel hoses with cable ties.

Note: Fuel hoses must not be routed or clamped with any electrical wires or cables.

Note: Following the conversion of a unit which has run for some time on petroleum based fuel, one or two occurrences of premature fuel filter plugging can be expected. This is due to deposits being dissolved and washed into the filter and is considered normal.