



# Product Support Bulletin 2008-007

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## Maintenance of Way ~ Work Equipment Bulletin

**DATE:** October 21, 2008

**SUBJECT:** TRIPP Emergency Pump Piping Kit  
Barnes Electric Pump – 98760051  
Little Giant Electric Pump – 98760057  
Hand Operated Pump – 98760058

**RATING:**

<input type="checkbox"/> <b>DIRECTIVE</b> (Action is required)	<input checked="" type="checkbox"/> <b>ALERT</b> (Potential Problem)
<input type="checkbox"/> <b>INFORMATION</b> (Action is optional)	<input type="checkbox"/> <b>PRODUCT IMPROVEMENT</b> (Enhance Product)

**MACHINE MODEL(S):** TRIPP Tie Remover/Insertor

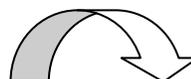
**SERIAL NUMBER(S):** 760125-760290

**SUMMARY:** The TRIPP uses an oil cooler with a hydraulically driven fan. When attempting to use the Emergency Pump, oil will bypass through the fan motor and pressure can not be built up to operate any other functions. The Emergency Pump Piping Kits have been designed to prevent oil from bypassing through the motor when using the Emergency Pump on these machines.

There are 3 types of Emergency Pumps used on this machine:

- Barnes electrically operated pump – 96670098 uses Kit 98760051
- Little Giant electrically operated pump – 59420465 uses Kit 98760057
- Manually operated pump – P/N 59420112 uses Kit 98760058

Each kit contains different hoses and fittings for the individual pump. Please order the correct kit for the pump on your machine. See Figures 1, 2 and 3 on Page 3 to identify the pump used on your machine.



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### OPERATIONAL

#### IMPACT:

If the engine or main hydraulic pumps should fail, the Emergency Pump is intended to be used to move the various machine components to the lockup positions so the machine may be towed from the work site. If oil from this pump is bypassing through the Oil Cooler Fan Motor, hydraulic pressure won't build up enough to move the various components to the lockup position and the pump will not be able to function as intended.

#### ACTION:

The Emergency Pump Kits change the hydraulic connection of the Oil Cooler Fan Motor so it is connected between the Main Pump and the Propel Manifold. This will prevent oil from the Emergency Pump from bypassing through the Oil Cooler Fan Motor and will allow normal operation of the Emergency Pump. Since the oil supplied to the Oil Cooler Fan Motor will be taken before being filtered by the Main Pressure Filter, a **Filter/Orifice Fitting, p/n 1699050** is included to keep contaminants out of the oil cooler motor. See Figure 4 on Page 3. A larger diameter pump suction hose is also provided as part of the kit.

In addition, kit 98760051 for the Barnes electric pump and kit 98760057 for the Little Giant electric pump also include a larger suction hose to help prevent pump cavitation and increase the operating speed of the emergency system.

These kits contain all of the necessary fittings and hoses and can easily be installed in less than an hour. No welding is required and installation instructions are included with the kit. One kit is required per machine. **Make sure to follow all LOTO procedures when installing these kits.**

#### Note:

See Barnes Pump operating instructions on Page 4.

See Little Giant Pump operating instructions on Page 5.

See Manual Pump operating instructions on Page 6.

#### WARRANTY:

Kits will be supplied under warranty for machines s/n 760125-760290 until May 30, 2009. For warranty orders, contact the Nordco Service Department at 1-800-445-9258. To order these kits after the warranty period, contact the Nordco Parts Department at 1-800-647-1724. Machines 760291 and above have had the kit installed at the factory and do not require any modifications.



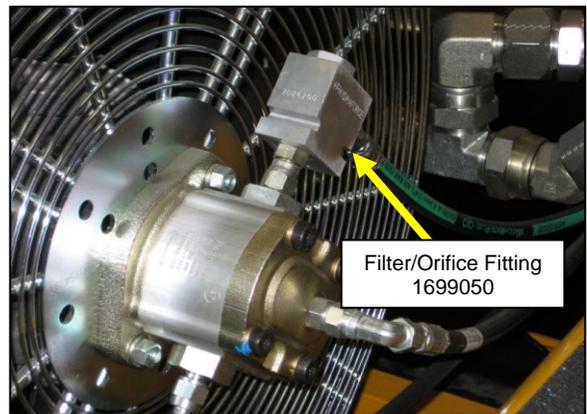
**Figure 1**  
Barnes Electric Emergency Pump



**Figure 2**  
Little Giant Electric Emergency Pump



**Figure 3**  
Manually Operated Emergency Pump



**Figure 4**  
Filter/Orifice Fitting installed on Fan Motor

## Barnes Electric Emergency Pump Operation Instructions

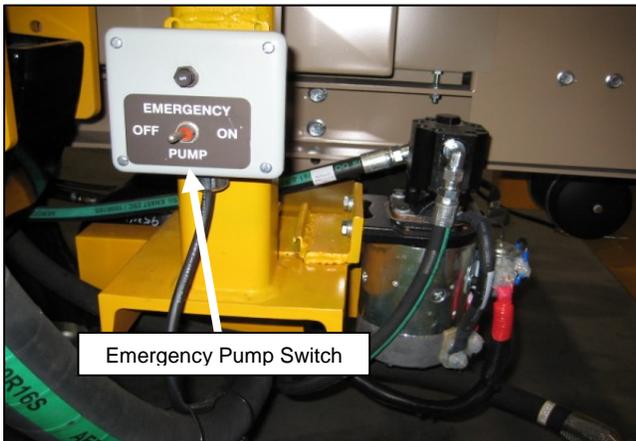
To operate the machine functions with the Barnes Emergency Pump, follow these steps:

**Note: Two people are required for this operation, one to operate the pump and one to operate the machine controls.**

1. Make sure the Battery Switch and Main Ignition Switch are turned on.
2. Turn on the pump by holding the switch shown in Figure 5. Make sure the Circuit Breaker is pushed in.
3. While the pump is running, pull back the Joystick Valve in the cab to raise the Workhead and move it to the left or right as necessary to retract the Workhead. See Figure 6.
4. Press and release the Start/Reset Switch on the RH Joystick to open the Rail Clamps if necessary. See Figure 6.
5. Press and hold the Raise Rail Lifter switches on the LH Operator Panel to raise the Rail Lifter. Both switches must be pressed to raise both sides of the Workhead. See Figure 7.
6. Release both switches when the Rail Lifter is raised completely.

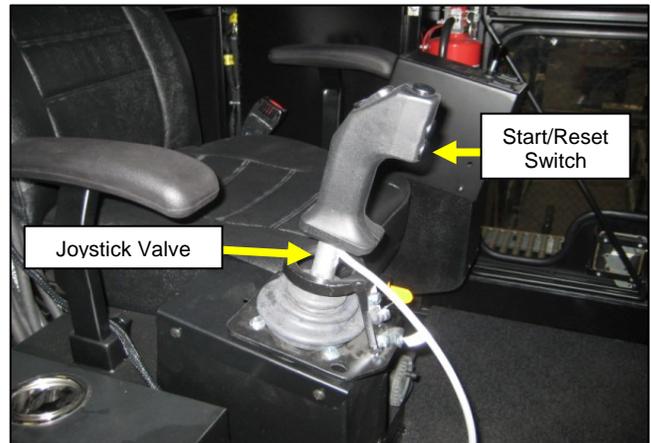
**CAUTION! Do not run the pump for more than 3 minutes. Running the pump for longer than 3 minutes may damage the pump motor.**

After the Workhead and Rail Lifter have been raised and locked, turn off the pump by releasing the toggle switch.



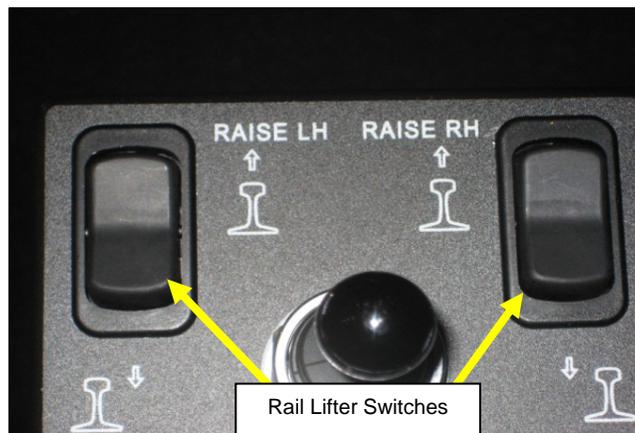
**Figure 5**

Barnes Emergency Pump Switch – Push and hold switch to operate pump



**Figure 6**

Joystick Valve – Move left or right to retract Workhead.  
Pull back to raise Workhead.  
Press the Start/Reset Switch to open the Rail Clamps.



**Figure 7**

Rail Lifter Rocker Switch – Press and hold both switches to raise Rail Lifter

## Little Giant Electric Emergency Pump Operation Instructions

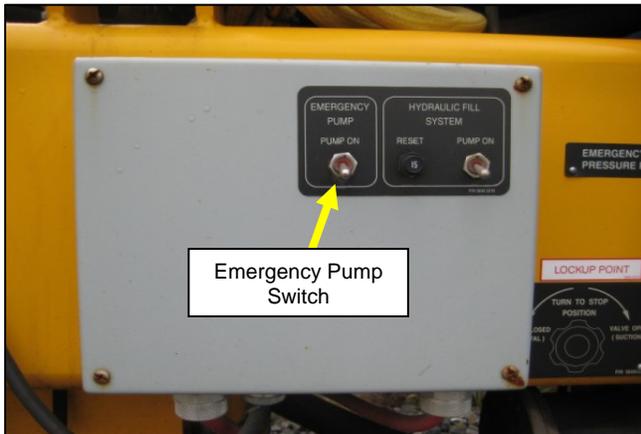
To operate the machine functions with the Little Giant Emergency Pump, follow these steps:

**Note: Two people are required for this operation, one to operate the pump and one to operate the machine controls.**

1. Make sure the Battery Switch and Main Ignition Switch are turned on.
2. Turn on the pump by holding the switch shown in Figure 8. Make sure the Circuit Breaker is pushed in.
3. If kit 98760058 has not been installed, remove the Emergency Pump Hose from the toolbox and connect it to the connector next to the switch box. Connect the other end of the hose to connector on the Propel Manifold. See Figure 14 on Page 6.
4. While the pump is running, pull back the Joystick Valve in the cab to raise the Workhead and move it to the left or right as necessary to retract the Workhead. See Figure 9.
5. Press and release the Start/Reset Switch on the RH Joystick to open the Rail Clamps if necessary. See Figure 9.
6. Press and hold the Raise Rail Lifter switches on the LH Operator Panel to raise the Rail Lifter. Both switches must be pressed to raise both sides of the Workhead. See Figure 10.
7. Release both switches when the Rail Lifter is raised completely.

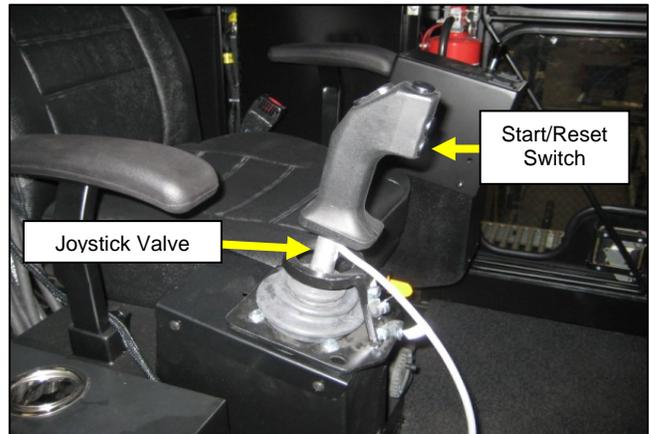
**CAUTION! Do not run the pump for more than 3 minutes. Running the pump for longer than 3 minutes may damage the pump motor.**

After the Workhead and Rail Lifter have been raised and locked, turn off the pump by releasing the toggle switch.



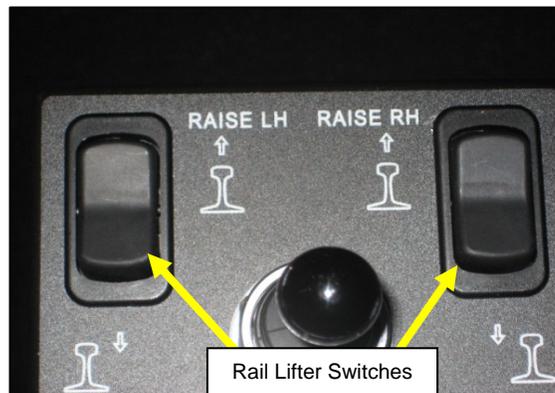
**Figure 8**

Little Giant Emergency Pump Switch – Push and hold switch to operate pump



**Figure 9**

Joystick Valve – Move left or right to retract Workhead. Pull back to raise Workhead. Press the Start/Reset Switch to open the Rail Clamps.



**Figure 10**

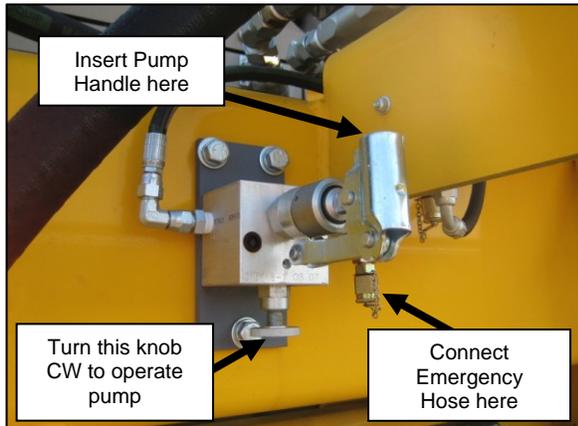
Rail Lifter Rocker Switch – Press and hold both switches to raise Rail Lifter

## Hand Operated Emergency Pump Operation Instructions

To operate the machine functions with the Hand Operated Emergency Pump, follow these steps:

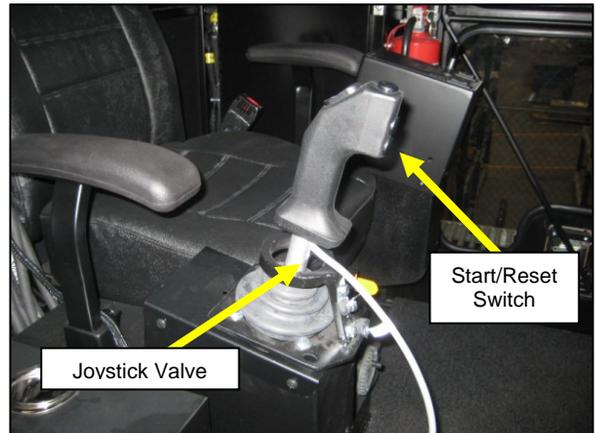
**Note: Two people are required for this operation, one to operate the pump and one to operate the machine controls.**

1. Make sure the Battery Switch and Main Ignition Switch are turned on.
2. Turn the Control Knob CW until it stops. See Figure 11.
3. Remove the Emergency Pump Hose from the toolbox and attach it to the connector on the Hand Pump. Connect the other end of the hose to connector on the Propel Manifold. See Figure 14.
4. Retrieve the Pump handle from the toolbox and insert it into the socket. See Figure 11.
5. Move the Pump Handle up and down repeatedly to operate the pump.
6. While operating the Pump Handle, pull back the Joystick Valve in the cab to raise the Workhead and move it to the left or right as necessary to retract the Workhead. See Figure 12.
7. Press and release the Start/Reset Switch on the RH Joystick to open the Rail Clamps. See Figure 12.
8. Press and hold the Raise Rail Lifter switches on the LH Operator Panel to raise the Rail Lifter. Both switches must be pressed to raise both sides of the Workhead. See Figure 13.
9. Release both switches when the Rail Lifter is completely raised.
10. Remove the Pump Handle from the pump socket and return it to the tool box.
11. Turn the Control knob CCW until it stops.



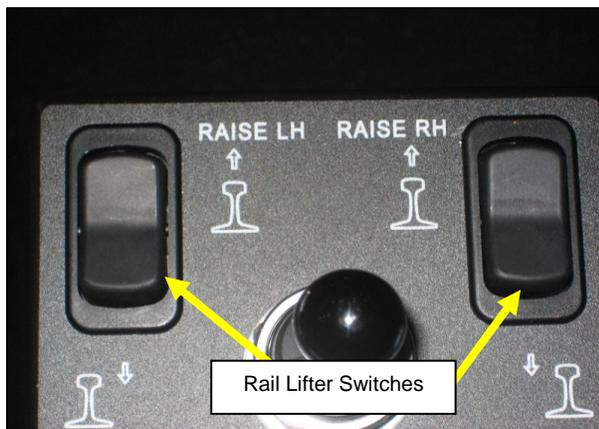
**Figure 11**

Manually Operated Emergency Pump



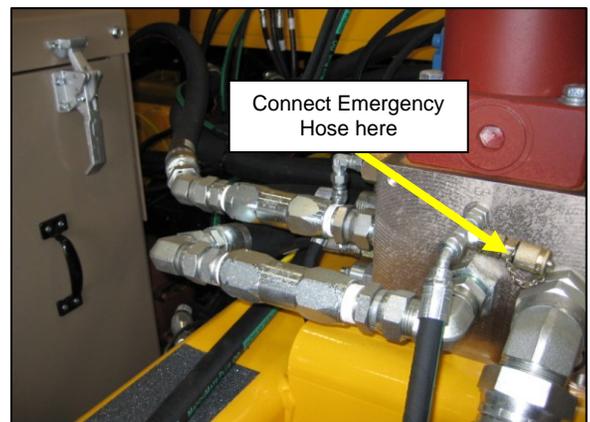
**Figure 12**

Joystick Valve – Move left or right to retract Workhead.  
Pull back to raise Workhead.  
Press the Start/Reset Switch to open the Rail Clamps.



**Figure 13**

Rail Lifter Rocker Switch – Press and hold both switches to raise Rail Lifter



**Figure 14**

Emergency Hose Connector on Propel Manifold