

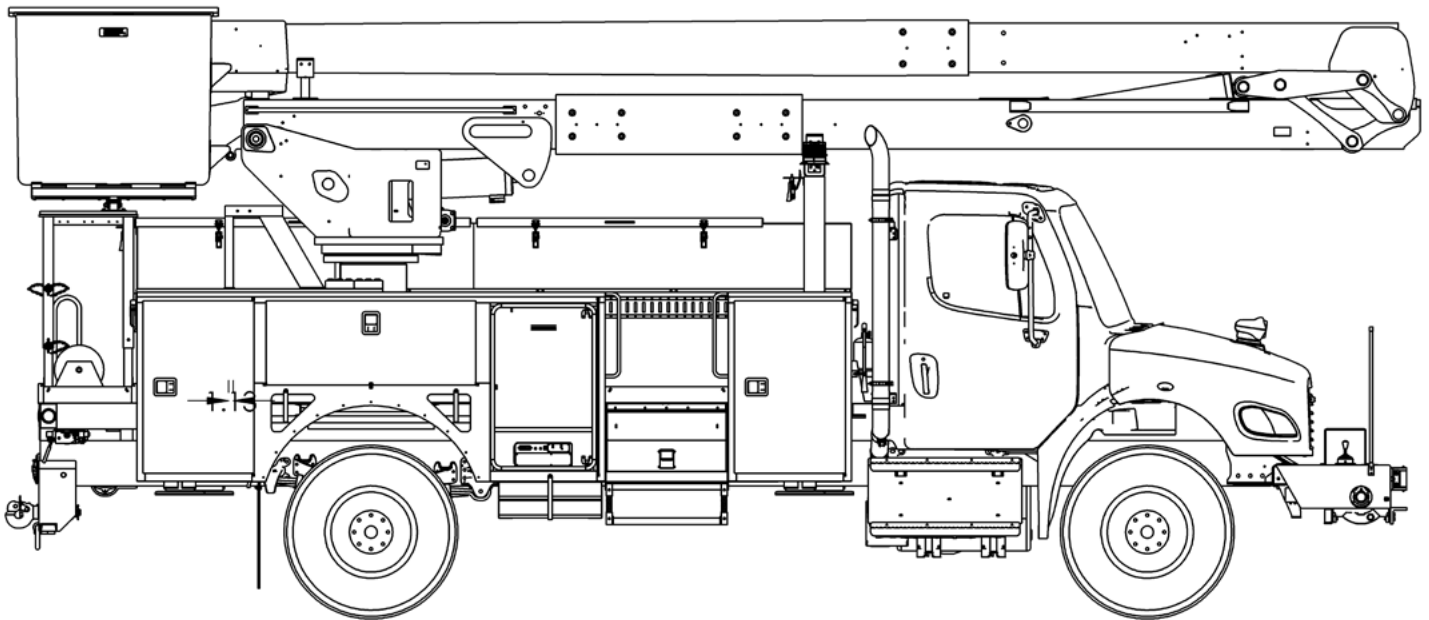


**TEREX®**

# TECH TIPS

**BLEEDING THE PUMP ON A VIATEC SYSTEM**

**NO. 175**



**SERVICE CALL:  
BLEEDING THE PUMP ON A  
VIATEC SYSTEM**



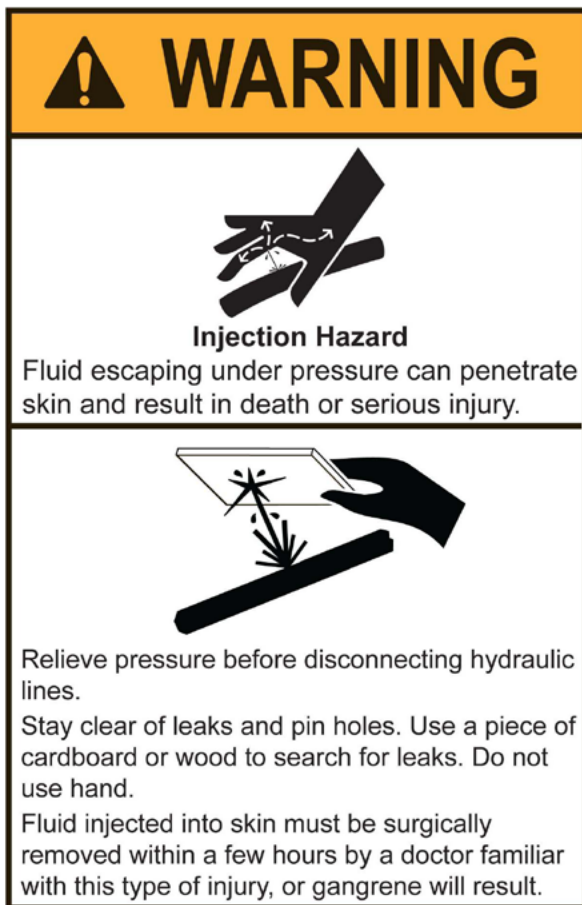
**MODEL(S):  
V2 AND V2 LITE VIATEC  
SYSTEMS**



**TOOLS NEEDED:  
WRENCH/S-WRENCH SET  
PARKER #SMA3-800CF HOSE  
ASSEMBLY  
BUCKET FOR OIL**

**TEREX UTILITIES TECHNICAL SUPPORT TEAM**

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## DANGER

Failure to obey the instructions and safety rules in the appropriate Operator's Manual and Service Manual for your machine will result in death or serious injury.

Many of the hazards identified in the Operator's Manual are also safety hazards when maintenance and repair procedures are performed.

## DO NOT PERFORM MAINTENANCE UNLESS:

- ✓ You are trained and qualified to perform maintenance on this machine.
- ✓ You read, understand and obey:
  - manufacturer's instructions and safety rules
  - employer's safety rules and worksite regulations
  - applicable governmental regulations
- ✓ You have the appropriate tools, lifting equipment and a suitable workshop.

The information contained in this Tech Tip is a supplement to the Service Manual. Consult the appropriate Service Manual of your machine for safety rules and hazards.



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## INTRODUCTION

**Note:** On V2 models the ports are located inside the box. Lockout/Tagout will need to be followed to gain access

**Note:** V3 uses a proportional relief and does not need to be manually bled

## STEP 1

Crack the suction line to the Viatec unit to bleed the air from the suction line and confirm oil is getting to the pump.

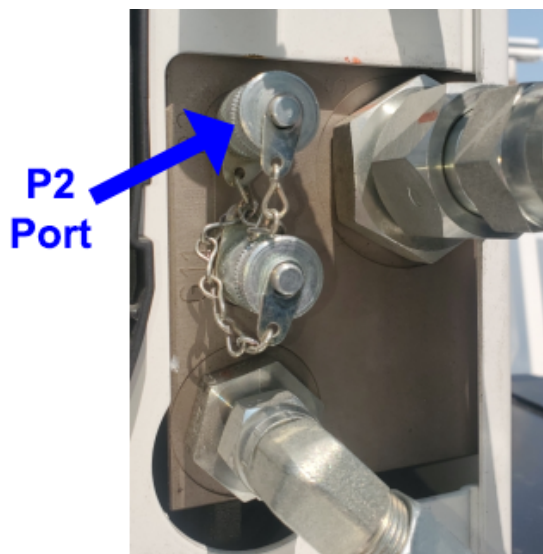


Escaping fluid under pressure can penetrate skin causing serious injury.

Relieve pressure before disconnecting hydraulic lines. Keep away from leaks and pin holes. Use a piece of cardboard or paper to search for leaks. DO NOT use your hand.

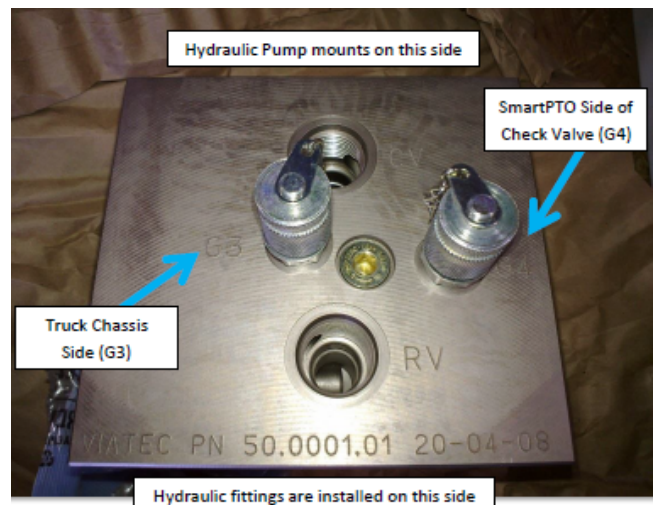
## STEP 2 V2 LITE

Priming ports are located outside of the unit. Connect the bleeder hose to the P2 Port. The other end of the hose should go to a drain pan or bucket.



## STEP 2 V2

Take the top cover off and go through the Lockout/Tagout steps in **Appendix A**. When the voltage is below 24V connect the parker hose to port G3. The other end should go into a drain pan or bucket.



### STEP 3

Turn the chassis key to the ON position, engine not running, engage the park brake and press the SMART PTO switch inside the cab to allow the system to boot up. If the emergency stop is engaged at the SMART PTO display, disengage it.

### STEP 4

With the parking brake still set, press the PTO button on the switch panel. While someone watches the bleeder hose, press the ePTO button on the switch panel. If the system does not turn ON go the SMART PTO display and toggle the pump toggle.

### STEP 5

Allow the pump to run for about 10 seconds and press the Pump Toggle at the SMART PTO display to turn the pump off.

### STEP 6

Repeat steps 4 and 5 until all the air is out of the line.



### STEP 7

Follow the Lockout/Tagout procedures shown in **Appendix A**.

### STEP 8

Once voltage is at a safe level, disconnect the bleeder hose from port G3 and put it on to G4 (G11 Port for V2 lite) and repeat steps 4-6. Once the line is bled out, disconnect the bleeder hose removed for lockout/tagout and connect all electrical connections. Put on all covers that were removed.

### STEP 9

Run outrigger and unit to confirm proper operation.



Escaping fluid under pressure can penetrate skin causing serious injury.

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# APPENDIX: A

## LOCKOUT/TAGOUT

### STEP 1

Turn off the truck and place the keys in a secure location.

### STEP 2

Unplug charging cables from the Viatec.



**120VAC**



**240VAC**

### STEP 3

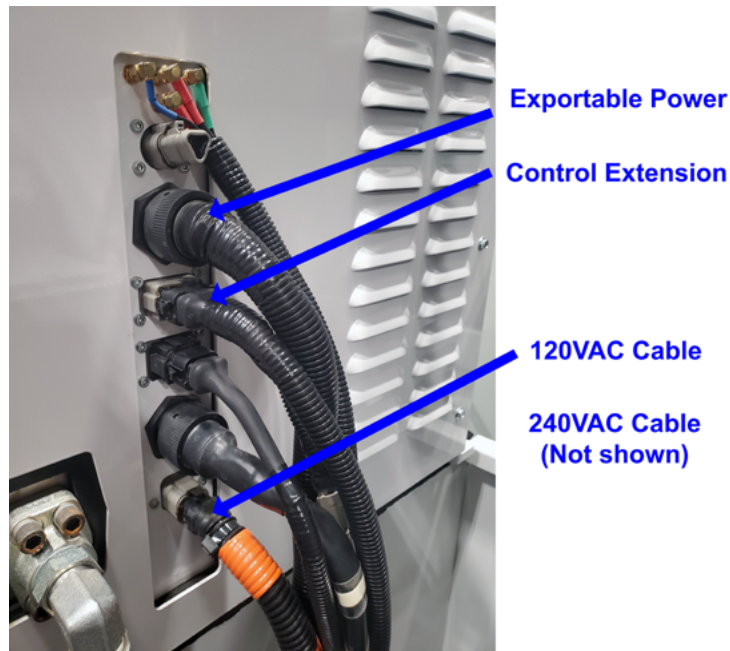
Shut off the Viatec unit by pressing the Smart PTO switch in the cab and pressing the E-stop on the screen enclosure.





## STEP 4

Disconnect cables shown off the back of the Viatic.



## STEP 5

Use lockout/tagout devices to cover the cable ends. Only the control extension, 120VAC and 240VAC need to be locked out. **Figure 6A**

## STEP 6

Wait 10 minutes for the SmartPTO internal capacitors to discharge on the Viatic.



**FIGURE 6A**

# APPENDIX: A

## STEP 7

Remove cover to access internal components. **Figure 7A**

## STEP 8

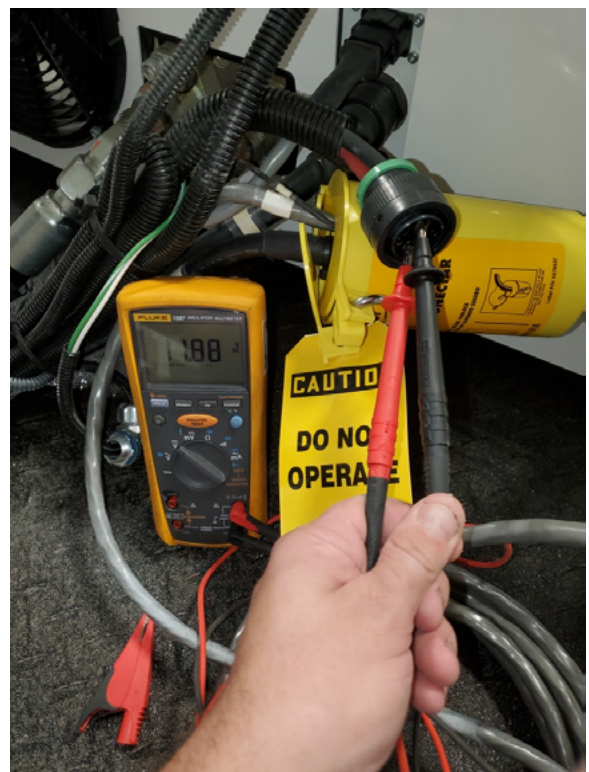
Set the multimeter for DC voltage, then insert the probes into the exportable power connection to confirm 12V. **Figure 8A**



Orange color wires and loom indicate High Voltage. Do not touch high voltage wires or any exposed connections.



**FIGURE 7A**



**FIGURE 8A**



## STEP 9

Using appropriate PPE for high voltage testing, test the Voltage between B+ and (M1 or M2 or M3) Terminal.



## STEP 10

Verify the meter is working properly by testing battery voltage on the export power connection.

**Note:** Always follow the Check, Test, Check method.

## STEP 11

If the voltage on the “M” Terminals is greater than 24V, wait 10 minutes and check the voltage again. Once the voltage drops below 24V, work can proceed.

## STEP 12

Once work is completed, install the covers and plug in the connectors as shown in Step 4.

Confirm that the unit powers and functions properly.

Refer to the Viatec manual for proper start-up procedures.



FOR FURTHER ASSISTANCE,  
CONTACT THE TEREX UTILITIES TECHNICAL SUPPORT TEAM  
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