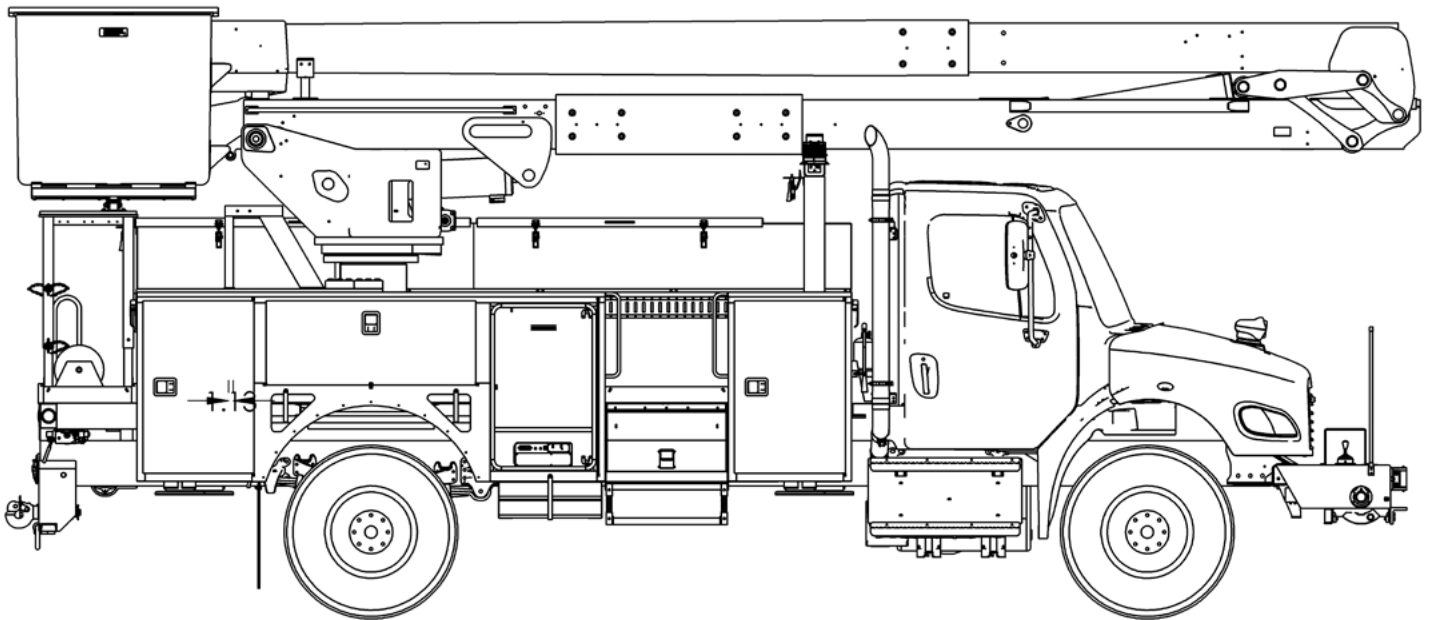




TECH TIPS

SIMPLIFIED LOAD ALERT SYSTEM (LAS) BLEEDING THE SENSING LINES

NO. 177



SERVICE CALL:
SIMPLIFIED LOAD ALERT (LAS)
BLEEDING THE SENSING LINES



MODEL(S):
ALL TEREX UTILITIES EQUIPMENT
WITH SIMPLIFIED LOAD ALERT
SYSTEM




TOOLS NEEDED:
JUMPER HOSE FROM TOOL
CIRCUIT TO SENSING MANIFOLD
PORT-A-POWER PUMP


TEREX UTILITIES TECHNICAL SUPPORT TEAM

PHONE: 1-844-TEREX4U (1-844-837-3948) | EMAIL: UTILITIES.SERVICE@TEREX.COM

! WARNING



Injection Hazard
Fluid escaping under pressure can penetrate skin and result in death or serious injury.



Relieve pressure before disconnecting hydraulic lines.
Stay clear of leaks and pin holes. Use a piece of cardboard or wood to search for leaks. Do not use hand.
Fluid injected into skin must be surgically removed within a few hours by a doctor familiar with this type of injury, or gangrene will result.



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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STEP 1

Locate the quick couplers on the sensing manifold and the pressure port of the tool circuit. This can be on the unit being worked on or from another unit with a tool circuit. If a tool circuit is not available, use a port-a-power. Make sure the jumper hose or adapter will work on this assembly. **Figure 1**

STEP 2

Start the truck and turn on the PTO. Raise both booms 3-6 feet out of the rest. From the tail shelf or lower controls, shut off the unit.

STEP 3

Connect the hose to the pressure side of the tool circuit. Then connect the other end to one of the couplers on the sensing manifold for the load sense.



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.

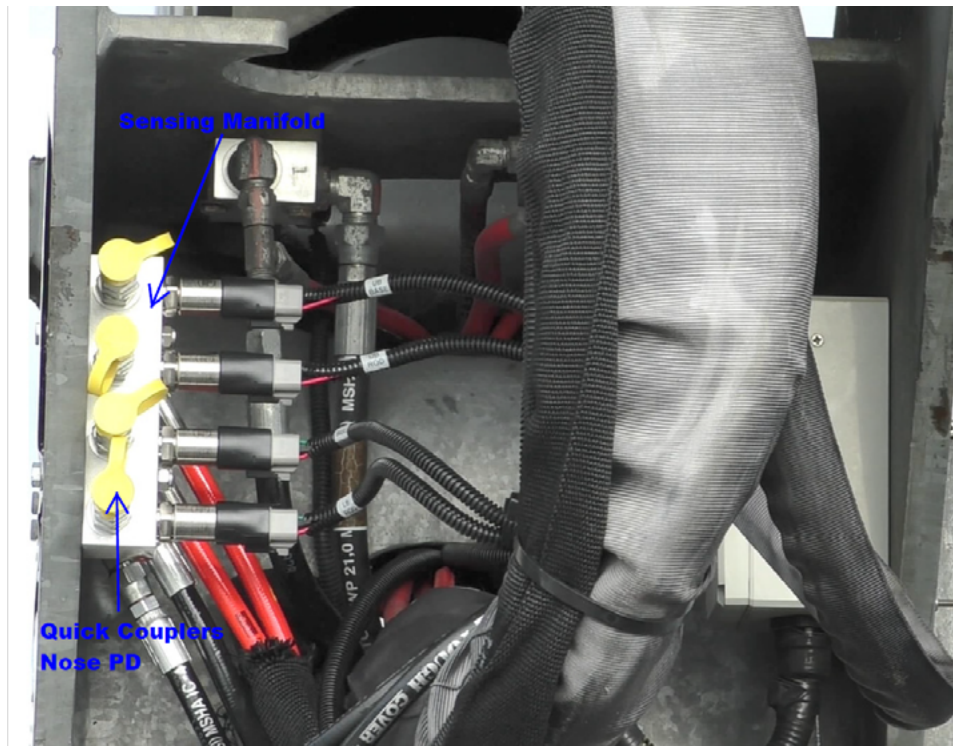


FIGURE 1

STEP 4

Start the truck and turn on the tool circuit. Watch the boom. If the boom moves wait for it to stop, then let the tool circuit go over relief for 5-10 seconds. The booms will only move 2-3 inches at a slow speed.

STEP 5

Once this is complete, shut off the tool circuit and go to the next coupler.

STEP 6

Repeat these steps until complete.

STEP 7

If using a port-a-power, attach to the quick couplers on the manifold and pump until you see around 2250 psi on the display screen for that function.

STEP 8

Once this is done, store the boom and take it outside.

STEP 9

Set the unit up and cycle both boom sections completely through the full range of motion. While extended and retracted, hold it over relief for 5-10 seconds.

The lower boom may have to be moved off to the side so the cylinder can be extended and retracted completely.

While operating the boom, watch the display screen and verify that system pressure is shown correctly on the screen. **Figure 2**

Example

Upper Boom Stored=Upper Rod PSI

Upper Boom Unfold=Upper Base PSI

Lower Boom Stored=Lower Rod PSI

Lower Boom Unfold=Lower Base PSI

PSI=System Pressure

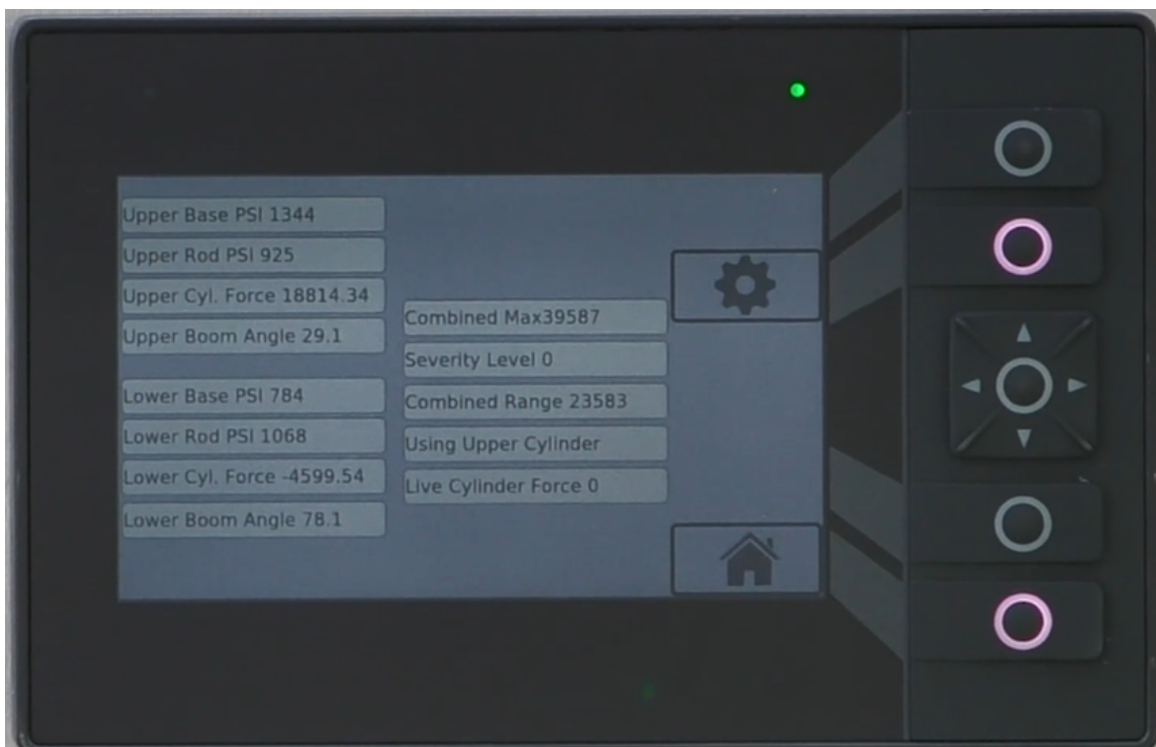


FIGURE 2

STEP 10

When operating the upper boom, make sure to lift the lower boom enough to prevent the platform from contacting the ground.

STEP 11

Once complete, verify the LAS system is operating correctly before returning it to service. Examples are boom angles are changing as you move the booms, pressures in the cylinders are changing, and no false alarms are activating. Also that there are no active faults on the display screen. **Figure 3**



FIGURE 3



FOR FURTHER ASSISTANCE,
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PHONE: **1-844-TEREX4U (1-844-837-3948)** | EMAIL: **UTILITIES.SERVICE@TEREX.COM**
