

# Terminal Tractor

## Service Bulletin - Informational



<b>Subject: Adjusting Boom Hydraulic Relief Pressure on T2 Terminal Tractors</b>			
<b>Product:</b> Medium Terminal Tractor	<b>Bulletin #</b> SB18TI0081	<b>Date:</b> 7-Aug-2018	<b>Pages:</b> Page 1 of 5
<b>To: All Kalmar Sales Companies</b>		From: Medium Terminal Tractor Product Support	

**Units Affected:** Fifth-wheel boom lifting system on T2 Terminal Tractors

**Possible Situation:** Check control valve relief pressure setting during pre-delivery and during boom lifting system troubleshooting.

**Solution:** Connect 3000 psi pressure gauge onto the boom control valve test port. Confirm maximum relief pressure set at **2000 psi (138 Bar) for 5 inch diameter boom cylinders** and **2250 psi (155 Bar) for 4 inch diameter boom cylinders**. Adjust maximum relief pressure if required.

**CAUTION: PROPER LOCKOUT / TAGOUT PROCEDURES AS WELL AS PERSONAL SAFETY PROCEDURES AND DEVICES INCLUDING EYE PROTECTION ARE REQUIRED. RELIEVING HYDRAULIC SYSTEM AND LINE PRESSURE IS CRITICAL.**

- Park Truck on a level surface
- Transmission in neutral
- Set park brake
- Chock wheels
- Lockout / tagout

### **Pressure gauge test port installation:**

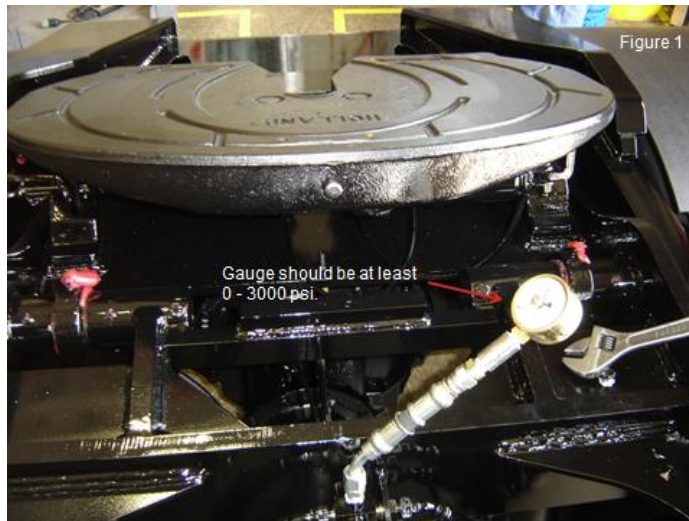
- Exercise fifth-wheel boom lifting and lowering to achieve normal operating hydraulic oil temperature.
- Lower boom completely, shut off engine and toggle the boom lift control lever several times (lift up / lift down) to relieve system pressure in the boom hydraulic circuit.
- Install a 3000 psi pressure gauge onto boom control valve test port. Test port fitting is located at the cylinder hose bulkhead located at the back of the boom platform just in front of the fifth-wheel plate.

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- Start the engine and raise engine rpm to 1800 rpm. Boom up completely, deadheading the boom cylinders to maximum stroke. Continue holding the lift lever in the up/lift position and record the system pressure. Gauge pressure reflects the systems maximum relief pressure. T2 maximum relief valve pressure is 2000 psi (138 Bar) for 5 inch diameter boom cylinders and 2250 psi (155 Bar) for 4 inch diameter boom cylinders.



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### Boom control valve relief pressure adjustment (when required)

- If maximum pressure reading is not equal to 2000 psi (138 Bar) for 5 inch diameter boom cylinders and 2250 psi (155 Bar) for 4 inch diameter boom cylinders, adjust the relief pressure at the boom control valve.

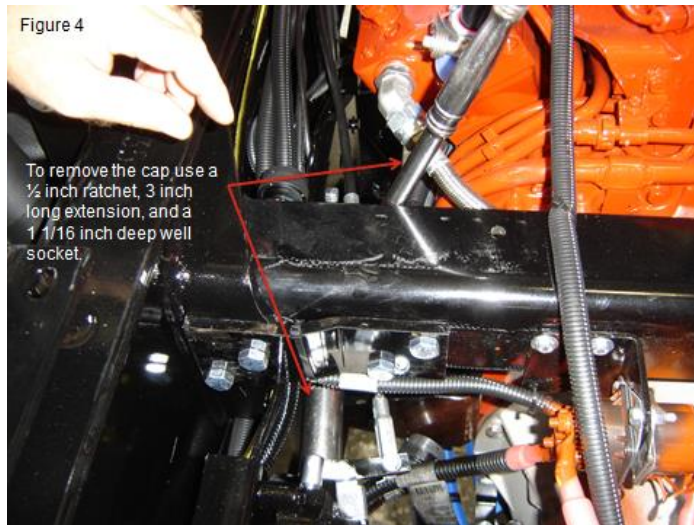


- Remove the acorn cap protecting the adjusting screw. Turn the adjusting screw quarter (1/4) turn increments; clockwise (CW) to increase system pressure or counter clockwise (CCW) to decrease system pressure. Adjust to maximum relief valve pressure to 2000 psi (138 Bar) for 5 inch diameter boom cylinders and 2250 psi (155 Bar) for 4 inch diameter boom cylinders

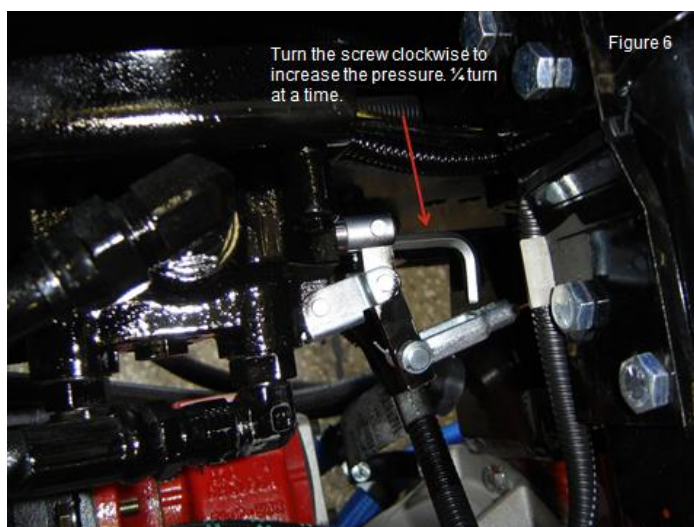
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- The adjusting screw should only be turned a quarter turn before rechecking system pressure. Repeat until maximum allowed pressure is achieved. **Record before and after relief pressure settings, document in service report.**



- Once correct pressure set, replace acorn cover cap protecting adjustment screw.

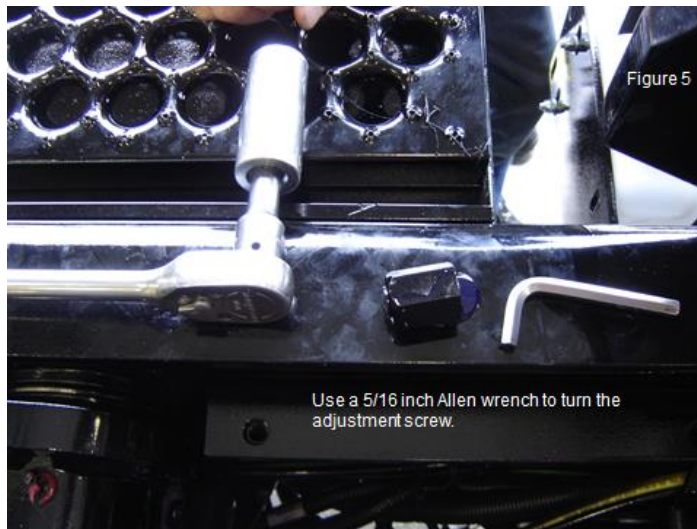


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- Remove lockout / tagout safety tag and return tractor to service.

### Special Tools:

- 3000 PSI Pressure Gauge
- 1/2 inch drive ratchet
- 3 inch long extension
- 1 1/16 inch deep well socket
- 5/16 inch Allen wrench