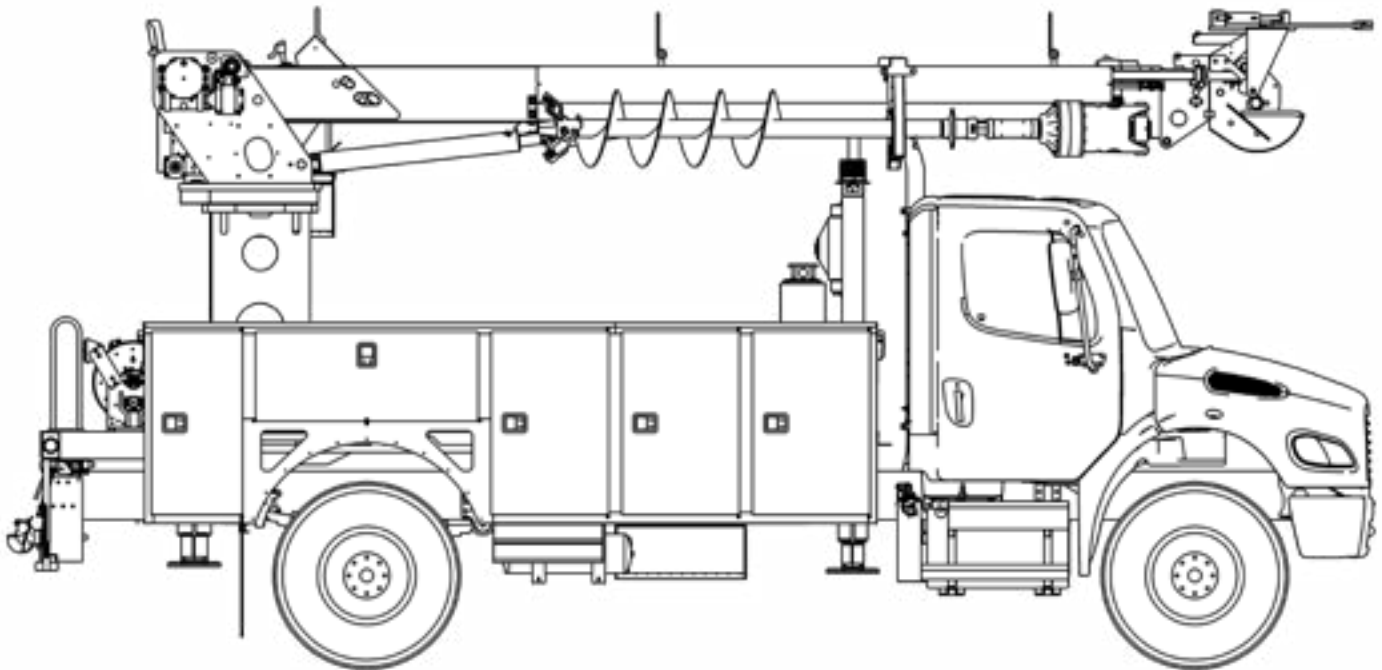




TECH TIPS

ADJUSTING SYSTEM RELIEF PRESSURE

NO. 02



SERVICE CALL:
ADJUSTING SYSTEM RELIEF
PRESSURE



MODEL(S):
C4000, C5000, C6000, GENERAL



TOOLS NEEDED:
HYDRAULIC PRESSURE GAUGE
(0-5000 PSI)
9/16" OR 3/4" WRENCH
SET OF STANDARD ALLEN WRENCHES

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

When setting system relief, it must be verified that system pressure is present at the base of the lift cylinders.

If system pressure is not present or improperly set, the unit may not be able to lift the capacities shown on the load chart.

This is the reason why pressure is checked at the base of the lift cylinders or by hooking into Hydraulic Overload Protection (HOP).

STEP 1

Determine gauge installation location:

- **Units with HOP:** Use port G1 on HOP manifold
- **Units without HOP:** Tee gauge in the control line for lift-up between cylinder and control valve.

See **Figure 1** for Sensing Manifold with a G1 location. P/N **485770**.

See **Figure 2** and **Figure 3** for locations on where the sensing valve may be found on your unit. An individual sensing valve may also be located under the rider seat on the command post.

STEP 2

Install the gauge in the location indicated in Step 1. The boom must be supported by the boom rest or the lift cylinders must be fully retracted before attempting to install the gauge.



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.

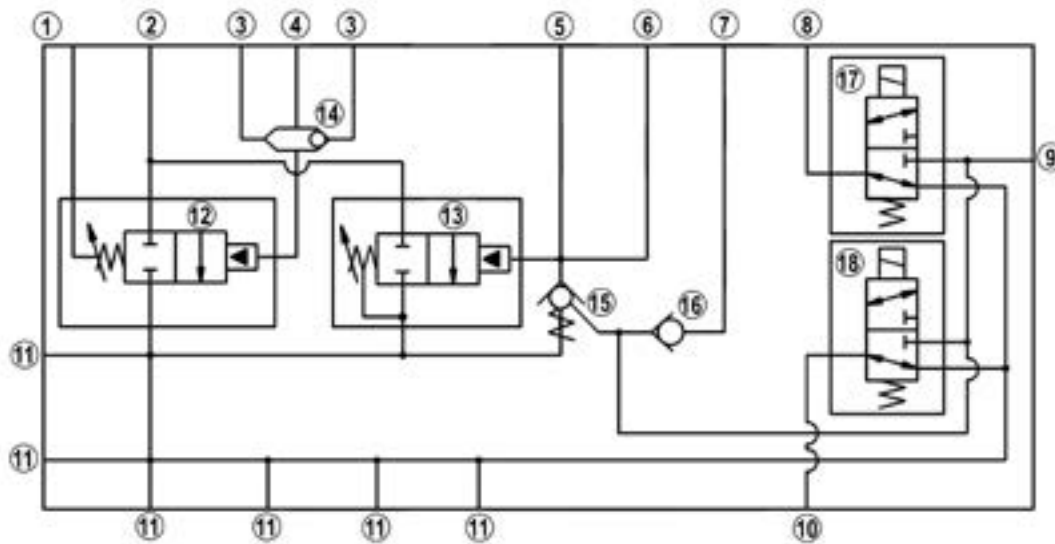


FIGURE 1

- 1. COMP - Rod side of lift cylinders.
 - 2. HOP - To dump cartridges on control valve.
 - 3. Base Lift - To lift cylinder base end.
 - 4. G1 - Gauge Port. Normally plugged.
 - 5. G2 - Gauge Port. Normally plugged.
 - 6. Rot LS - Sensing Line from gearbox.
 - 7. Rot LS - Reduced pressure to gearbox.
 - 8. PAR - Pressure auger release.
 - 9. P - Pressure In.
 - 10. DS - Digger shift
 - 11. Lower Pressure Drains
 - 12. PS2 - Overload protection for lift cylinders
 - 13. PS1 - Overload protection for gearbox
 - 14. SH - Shuttle valve
 - 15. PO - Pilot set check valve
 - 16. CV - Check valve.
 - 17. S1 - Solenoid for pressure auger release
 - 18. S2 - Solenoid for digger shift.
- Not Shown: RP - Reduced Pressure*



FIGURE 2

- 1. Test Port Location



FIGURE 3

- 1. Test Port Location

STEP 3

Operate unit to bring hydraulic fluid to normal operating temperature.

STEP 4

Raise the boom to full elevation or attach to a solid object with the load line. The object must be heavier than what is indicated on the load chart.

Set the throttle to the maximum setting and engage the lift-up control. Verify on the gauge that the pressure is set to what is shown on the unit-specific placard.

STEP 5

If pressure is not at desired level, locate the return manifold in the pedestal. See **Figure 4** for an image of this manifold.

Adjust clockwise to increase the setting; or adjust counterclockwise to decrease the setting. Set the pressure to value listed on the unit-specific placard.

Figure 5 shows a return manifold with the current style system relief cartridge.

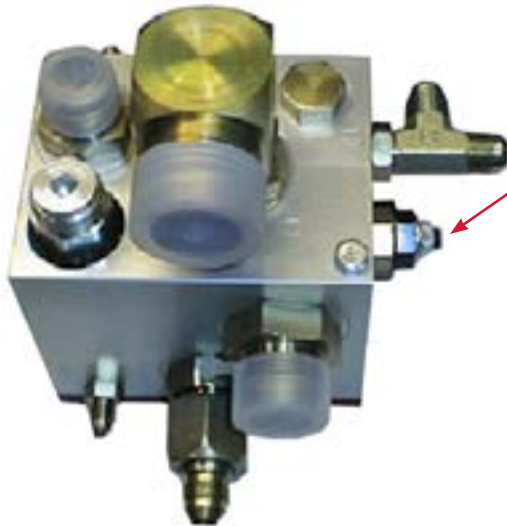


FIGURE 4
1. System Relief



FIGURE 5
1. System Relief



FOR FURTHER ASSISTANCE,
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