



# **ROUTINE JACK MAINTENANCE BULLETIN**

RJM 188

1 OF 2

## **TO PROVIDE COMPLETE INFORMATION ON SERVICING ColumbusJACK/REGENT QUALITY GROUND HANDLING EQUIPMENT**

### **PROCEDURE FOR TESTING TRIPOD JACKS WITHOUT A JACK TESTER**

It is imperative that safety relief valve on all tripod jacks be set in accordance with the following procedure when a jack tester is not available. (Refer to jack Operation and Maintenance Manual)

1. Open release valve and fully collapse ram(s).
2. Check fluid level in reservoir and fill as required.
3. Remove pressure line from cylinder assembly.
4. Attach a calibrated pressure gauge (0-10,000 psi) to the end of a minimum 3 foot pressure hose and connect to the end of the disconnected hydraulic line.
5. Close release valve.
6. Operate pump until jack operating pressure ( from manual) is indicated on pressure gauge.

#### **CAUTION**

**RELIEF VALVE PRESSURE SHOULD NOT EXCEED 10%  
ABOVE OPERATING PRESSURE OF THE JACK.**

7. Verify relief valve pressure setting and adjust per manual as required.
8. Calibrate jack pressure gauge as required.
9. When relief valve has been set, open release valve and remove pressure gauge and hose. Re-install line to cylinder assembly.
10. Close release valve and partially extend ram(s). Open release valve and collapse ram(s).
11. Repeat step 10 several times to completely bleed any trapped air from the system..
12. Close release valve and fully extend ram(s) to a maximum of 150 psi.

#### **CAUTION**

**IT IS NOT RECOMMEND TO LOAD TEST RAM(S)  
AGAINST THEIR INTERNAL STOP.**



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13. Verify that there is no leakage with the ram(s) extended. O-rings will leak more under little or no pressure if damaged. Therefore, if a ram piston o-ring is damaged, it will leak when a ram is extended under no load. Replace any damaged o-rings.
14. Fully extend screw extension.
15. Using a rag with clean hydraulic oil, wipe the exposed ram(s) and screw extension.
16. Open the release valve and fully collapse the ram(s). Lower the screw extension and place the cylinder cover into position.
17. The jack is now ready for service.