



# ROUTINE JACK MAINTENANCE BULLETIN

RJM 207

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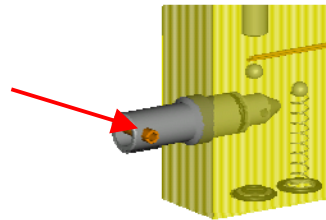
## TO PROVIDE COMPLETE INFORMATION ON SERVICING ColumbusJACK/REGENT QUALITY GROUND HANDLING EQUIPMENT

### PROCEDURE FOR ADJUSTING ColumbusJACK/REGENT CARTRIDGE RELIEF VALVES

It is imperative that safety relief valves on all jacks always be set between rated capacity, and rated capacity plus 10% maximum. The following procedure describes how to adjust ColumbusJACK/Regent cartridge relief valves.

- 1) Position jack under tester.
- 2) Fully close release valve.
- 3) Extend cylinder ram(s):
  - 3.1 On single stage jacks, extend the ram approximately half way.
  - 3.2 On multiple stage jacks, extend all rams until the smallest ram is extended approximately half way.

- 4) Remove spring pin on release valve cartridge.



- 5) Using smooth, uniform pump handle strokes, manually pressurize the cylinder while monitoring either jack load gauge or load gauge on tester.
- 6) Pump handle shall "drop" or "go soft" at an indicated load between rated load and rated load plus 10% (ex: 50 ton jack should be between 50 and 55 tons).
- 7) If safety relief valve is set too high, release pressure and rotate adjusting screw counterclockwise.
- 8) If safety relief valve is set too low, release pressure and rotate adjusting screw clockwise.
- 9) Repeat steps until valve is adjusted in range.
- 10) Open release valve and lower ram(s) completely.
- 11) Re-install spring pin. Jack is now ready for service.

