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## **Aircraft Jack Maintenance & Proof Load Testing**

### Single-Stage Tripod Jack Procedure

#### 90 Day Maintenance Procedure:

- Check leaks including the following areas of the hydraulic system:
  - Hydraulic lines (hoses and fittings)
  - Hand pump (cylinder, fittings and seals)
  - Reservoir (welds and fittings)
  - Air operated pump ( fittings, air side and oil side seals)
- Inspect the Jack structure for corrosion, bending, cracking and excessive wear in the following areas:
  - Ball lock pins
  - Mechanical extension
  - Welded joints (tripod legs, cylinder and foot pads)
  - Ram lock nuts (gouge marks and cracks in threads)
  - Jack pads
- Check fluid levels with rams fully retracted to ensure proper level height
- Visually inspect extended rams for corrosion, foreign matter, excessive wear and leaks around ram seals. Remove any foreign matter.
- Check air operated pump
- Check paint condition and touch-ups where necessary
- Actuate the hand pump and raise the ram to full extension.
- Apply water repellent that is Buna N compatible to the rams (DoAll, RPM, LPS or equivalent)
- Open release valve and verify that rams fully retract
- Lubricate casters (if applicable)

#### 12 Month Proof Load Testing Procedure: complete all of the above including:

- Check hydraulic fluid for contamination (dirt/water) drain and flush if required
- Capacity test (110% of jack's rated capacity)

[Contact us](#) to learn more about our on-site maintenance & proof load testing services.