



# **ROUTINE JACK MAINTENANCE BULLETIN**

RJM 147

1 OF 1

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

### **RECOMMENDED ANNUAL JACK CERTIFICATION PROCEDURE**

To ensure proper operation of all aircraft hydraulic jacks, it is important that at a minimum, each jack is certified on an annual basis. The following procedure is provided as an aid to the certification process.

- 1) With no external load applied to the jack, fully close release valve and fully extend ram(s) to verify function and the absence of external hydraulic leakage.
- 2) Open release valve and verify ram(s) retract fully.
- 3) Position jack under jack tester.
- 4) Close release valve, and extend ram(s):
  - a) Single Stage Cylinder - Extend ram at least 2 inches.
  - b) Multi-Stage Cylinder - Fully extend all but the last stage. Extend the last stage at least 2 inches.
- 5) Pressurize the jack against the jack tester. Using a calibrated pressure gauge on either the jack or the jack tester, monitor the pressure until the capacity (operating pressure) of the jack is reached.
- 6) With the jack pressurized against the jack tester, hold in this position for 3 minutes. Verify that the jack pressure has not decreased, indicating internal leakage.
- 7) Open the release valve to relieve jack pressure against the jack tester.
- 8) Set the safety relief valve per jack operation and maintenance manual.