

Cleveland

Wheels & Brakes

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SERVICE BULLETIN

LANDING GEAR - HYDRAULIC ACTUATORS - INSPECT / REPLACE

- EFFECTIVITY:** Parker Hannifin, Main Landing Gear Actuators P/N 11-20 (PAC P/N 89075-05 and/or 89075-06), with serial numbers starting with 354M through and including 490M which have manufacturing date codes of 10-94 through 2-96 and Nose Landing Gear Actuator P/N 11-25 (PAC P/N 89075-07) with serial numbers starting with 258 through and including 436 which have manufacturing date codes of 10-94 through 2-96.
- APPLICABILITY:** All Piper Aircraft Corporation Models PA-46-310P and PA-46-350P equipped with the Parker Hannifin Model P/N 11-20 Main Landing Gear Actuators and P/N 11-25 Nose Landing Gear Actuator.
- REASON:** Field reports have been received of a condition where the landing gear may be delayed in indicating down and locked. This condition can be aggravated during cold weather operation.
- DESCRIPTION:** This document provides the necessary instructions to inspect, remove and replace the referenced actuator assemblies and functionally test the landing gear.
- COMPLIANCE:** **Mandatory** - Prior to next flight for aircraft with 100 hours or less time in service or not to exceed the next ten (10) hours time in service for aircraft which have accumulated 100 hours time in service or more which have not experienced delayed down and locked gear indications. Prior to next flight for any aircraft which have experienced delayed down and locked gear indications regardless of the time accumulation. Failure to comply with this service bulletin may result in gear up landings or loss of control during landing.
- WEIGHT & BALANCE:** None
- MATERIALS:** 2 each P/N 11-20 (PAC P/N 89075-05 and/or 89075-06) Main Landing Gear Actuators and 1 each P/N 11-25 (PAC P/N 89075-07) Nose Landing Gear Actuator. Note: Only main gear actuators that are outside the serial numbers listed or have a serial number ending with an "MA" may be installed. Only nose gear actuators that are outside the serial numbers listed or have a serial number ending with an "A" may be installed.



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ACCOMPLISHMENT INSTRUCTIONS:

- 1) All aircraft, prior to next flight, determine if a delayed down and locked gear indication has been observed. If observed, cease operation. If not observed and less than 100 hours time in service has accumulated, cease operation. If not observed and more than 100 hours time in service has accumulated, operations may continue for up to ten hours time in service per the compliance time above.
- 2) Determine the serial number and date code stamp on the left main, right main, and nose gear actuators.
- 3) Refer to the Effectivity section and Accomplishment Instructions to determine if landing gear actuators are affected.
- 4) If the affected serial numbers or date codes do not appear in the Effectivity section and there has not been a delayed down and locked gear indication, compliance with this Service Bulletin has been achieved, no further action is required. Proceed to Instruction 7.
- 5) If actuators are to be replaced, exchange units may be available. Order Piper Part Number 89075-05 and/or 89075-06 and 89075-07 as required. If exchange units are not available, actuators must be returned through an Authorized Piper Distributor to facilitate factory overhaul.
- 6) If actuators require replacement, jack aircraft, remove and replace actuators, and perform landing gear rigging and cycle checks per the aircraft maintenance manual. Upon successful completion of gear cycle tests, remove aircraft from jacks.
- 7) Make an appropriate airframe logbook entry of compliance.