



# SERVICE No. 578B BULLETIN

Piper Aircraft Corporation

Lock Haven, Pennsylvania, U.S.A.

FAA/DOA SO-1 Approved

September 27, 1978 S

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(This Service Release Supersedes Service Bulletin No. 578A dated October 19, 1977)

Subject: Nose Landing Gear Down Lock Modification  
or Replacement

Reason for Revision: To revise serial number effectivity and announce availability of a modified micro switch actuator clip for the model PA-28R-201T Cherokee Turbo Arrow III aircraft. There is no change for the model PA-28R-201 Cherokee Arrow III aircraft.

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## PART I

Models Affected:

Serial Numbers Affected:

PA-28R-201 Cherokee Arrow III

28R-7737001 to 28R-7737137 Inclusive

Compliance Time: Within the next fifty (50) hours of operation or at the next regularly scheduled inspection, whichever occurs first. Affected PA-28R-201 Cherokee Arrow III aircraft that have complied with Service Bulletin 578A are not affected by this Service Release.

Purpose: It has been determined that under certain hydraulic load conditions the nose landing gear down lock hook may break. If this should occur in flight, the gear will swing to the down position and will be held in this position by the over center action of the drag braces.

This Service Release announces the availability of a redesigned nose gear down lock assembly, incorporating a strengthened hook to maintain the structural integrity and proper function of the nose gear down lock system.

Instructions: Remove the down lock assembly presently installed on the nose landing gear and replace it with the new assembly listed in Material Required section below. Refer to the applicable Cherokee Service Manual for appropriate installation instructions.

## NOTE

All down lock assemblies except the one listed in Material Required must be replaced on the above affected aircraft.

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Material Required: One (1) each, per aircraft, Piper Part Number 67150-04V, Nose Gear Down Lock Assembly (may be identified by the casting number "67178-2" stamped on the aft left hand side of the assembly).

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PART II

Models Affected:

Serial Numbers Affected:

PA-28R-201T Cherokee Turbo Arrow III

28R-7703001 to 28R-7803285 Inclusive

Compliance Time: Within the next fifty (50) hours of operation or at the next regularly scheduled inspection, whichever occurs first.

Purpose: It has been determined that under certain hydraulic load conditions the nose landing gear down lock hook may break. If this should occur in flight, the gear will swing to the down position and will be held in this position by the over center action of the drag braces. A newly designed micro actuator clip has been introduced which will improve the system reliability on the PA-28R-201T Cherokee Turbo Arrow III aircraft.

Instructions: Aircraft Serial Numbers 28R-7703001 to 28R-7703315 Inclusive, that did not comply with the provisions of Service Bulletin 578A, remove the down lock assembly presently installed on the nose landing gear and replace it with the new assembly listed in Material Required section below. Refer to the applicable Cherokee Service Manual for appropriate installation instructions.

Aircraft Serial Numbers 28R-7703001 to 28R-7703315 that have complied with the provisions of Service Bulletin No. 578A and aircraft serial numbers 28R-7703316 to 28R-7803285 Inclusive, remove the micro switch actuator clip from the down lock assembly and install the new actuator clip oriented in the same manner as the clip removed. Refer to Material Required section below.

Material Required: One (1) each per aircraft, Piper Part number 67150-06V Nose Gear Down Lock Assembly for PA-28R-201T only, that did not comply with Service Bulletin Number 578A. One (1) each per aircraft, Piper Part number 67752-03V Clip, Switch Actuator for PA-28R-201T only, serial numbers 28R-7703001 to 28R-7703315 Inclusive that did comply with Service Bulletin Number 578A and Serial Numbers 28R-7703316 to 28R-7803285 Inclusive.

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Availability of Parts: Your Piper Field Service Facility.

Effectivity Date: This Service Release is effective upon receipt.

Summary: Please contact your Piper Field Service Facility to make arrangements for compliance with this Service Release in accordance with the Compliance Time listed. Reimbursement for material and one (1) hour labor for down lock replacement or one half ( 1/2 ) hour labor for switch actuator clip for aircraft in warranty only, is available through your Piper Field Service Facility for a period of six (6) months from the date of this Service Release.