



# SERVICE LETTER

No. 941

Piper Aircraft Corporation

Lock Haven, Pennsylvania, U.S.A.

September 21, 1982 M

Subject: Nose Wheel Shimmy Dampener Replacement

Models Affected:

PA-31T Cheyenne/Cheyenne II

PA-31T Cheyenne I

PA-31T2 Cheyenne II XL

Serial Numbers Affected:

31T-8120049 through 31T-8120055,  
31T-8120057, 31T-8120059

31T-8104050 through 31T-8104061,  
31T-8104063 through 31T-8104065

31T-8166005 through 31T-8166029,  
31T-8166034 through 31T-8166036

Compliance Time: Recommended within the next one hundred (100) hours of operation or at the next scheduled event, whichever occurs first.

Purpose: Factory-inspection has determined that the Gar-Kenyon 95379 or 95379-2 Nose Gear Shimmy Dampeners (Piper Part Numbers 456 008 or 456 009, respectively) installed on the above-listed aircraft may be susceptible to internal hydraulic fluid seepage. Such seepage could cause hydraulic lock, which may result in restricted left nose gear travel and/or damage to the piston rod, the rod end bearing assembly or the attachment bracket.

This Service Release provides instructions for the replacement of the existing shimmy dampener with an improved design which is not susceptible to internal seepage.

Instructions:

1. Gain access to shimmy dampener.
2. Inspect rod end and points of attachment for damage. Replace if required.
3. Disconnect shimmy dampener, Gar Kenyon 95379 or 95379-2 (Piper Part No. 456 008 or 456 009), from gear and remove unit from aircraft. Retain hardware if not damaged.
4. Install new shimmy dampener Gar-Kenyon 95379-4 (Piper Part Number 456 010), without connecting pushrod to strut bracket.
5. Adjust shimmy dampener as follows:
  - a. Rotate nose gear to its full right tow limit and secure.
  - b. Pull the shimmy dampener piston rod to its full extension.
  - c. Adjust the pushrod end bearing until the attachment bolt fits freely through the rod end and bracket.

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Instructions: (continued)

5. continued
  - d. Remove the bolt and turn the rod end bearing out one full turn.
  - e. Bolt the rod end bearing to the bracket. Tighten jam nut.
  - f. With airplane on jacks, rotate nose gear to full left and right travel (40° each side) several times to check for binding or restriction.
6. Make appropriate logbook entry of compliance.

Material Required: One (1) each per aircraft Shimmy Dampener Piper Part Number 456 010.

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 arrange for compliance with this Service Release in accordance with Compliance Time, above.

Any applicable Factory participation remains in effect for a period of time not to exceed 180 days from the date of this Service Release.