



Piper Aircraft, Inc.  
2926 Piper Drive  
Vero Beach, Florida, U.S.A. 32960

# SERVICE NO. 1135 LETTER

Date: October 19, 2010

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## MAINTENANCE ALERT

**SUBJECT:**

**CONTROL CABLE / PULLEY INSPECTIONS**

**MODELS AFFECTED:**

All Models

**SERIAL NUMBERS AFFECTED:**

All

**COMPLIANCE TIME:**

On a recurring basis, at a frequency interval not to exceed one hundred (100) hours time in service.

**PURPOSE:**

Piper has received a field report of an aileron control cable failure that occurred during flight, resulting in loss of aileron control. It was determined that the cause of the cable failure was a seized bushing in a control cable pulley. Over time, the chafing condition resulting from the control cable sliding against the stationary pulley groove caused the control cable to wear completely through.

This Maintenance Alert emphasizes the critical nature of control cable/pulley inspections, and highlights existing recurring inspection requirements.

**INSTRUCTIONS:**

All flight control cables and associated pulleys require periodic inspection for safety, condition and operation. Prior to accomplishing the next scheduled maintenance event, maintenance personnel should review the applicable Piper Maintenance Manual for flight control cable and pulley inspection procedures. In addition, maintenance personnel are encouraged to become familiar with FAA Advisory Circular AC 43.13-1B CHG 1, Chapter 7, Section 8 "Inspection and Repair of Control Cables and Turnbuckles". This free document is available for download from the Federal Aviation Administration web site:

[http://rgl.faa.gov/Regulatory\\_and\\_Guidance\\_Library/rgAdvisoryCircular.nsf/0/99C827DB9BAAC81B86256B4500596C4E?OpenDocument&Highlight=43.13](http://rgl.faa.gov/Regulatory_and_Guidance_Library/rgAdvisoryCircular.nsf/0/99C827DB9BAAC81B86256B4500596C4E?OpenDocument&Highlight=43.13)

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**INSTRUCTIONS:** (continued)

1. CONTROL CABLE INSPECTION

Inspect the entire length of all flight control cables for broken strands, especially where the cable passes through fairleads and over pulleys. Rubbing a cloth over the cable will snag to reveal broken wire strands, and clean the surface in preparation for the visual inspection. During this inspection, operate the applicable flight control through the full range of motion, so that all portions of the control cable are examined, including the portions nesting within the recess of the pulley grooves.

2. PULLEY INSPECTION

Inspect all flight control pulleys for excessive wear in the groove. While the applicable flight control is operated through the full range of motion, examine each pulley to verify free and smooth rotation.

**MATERIAL REQUIRED:** N/A

**AVAILABILITY OF PARTS:** N/A

**EFFECTIVITY DATE:** This Service Letter is effective upon receipt.

**SUMMARY:** Please contact your Factory Authorized Piper Service Facility to make arrangements for compliance with this Service Letter in accordance with the compliance time indicated.

**NOTE:** Please notify the factory of any address/ownership corrections. Changes should include aircraft model, serial number, current owner's name and address.

Corrections and/or changes should be directed to:

PIPER AIRCRAFT, INC.  
Attn: Customer Service  
2926 Piper Drive  
Vero Beach, FL 32960