



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

SERVICE *No.* SB 1134 BULLETIN

PIPER CONSIDERS COMPLIANCE MANDATORY

Date: June 10, 2003

(S) (M)

SUBJECT:

SERVO METERED FUEL PRESSURE PORT LEAKAGE

MODELS AFFECTED:

PA-28R-180 Arrow
PA-28R-200 Arrow
PA-28R-200 Arrow II
PA-28R-201 Arrow III
PA-28RT-201 Arrow IV
PA-28RT-201 Arrow IV
PA-31/300 Navajo
PA-31-325 Navajo
PA-31-350 Chieftain & T-1020
PA-31P Navajo
PA-31P-350 Mojave
PA-32-300 Cherokee Six
PA-32R-300 Lance
PA-32RT-300 Lance II
PA-32RT-300T Lance II
PA-32R-301 Saratoga SP
PA-32R-301 Saratoga II HP
PA-32R-301T Saratoga SP
PA-32-301 Saratoga
PA-32-301T Saratoga
PA-32R-301T Saratoga II TC
PA-34-200 Seneca
PA-46-350P Mirage

SERIAL NUMBERS AFFECTED:

28R-30002 through 28R-31270; 28R-7130001 through 28R-7130013
28R-35001 through 28R-35820; 28R-7135001 through 28R-7135229
28R-7235001 through 28R-7635545
28R-7737002 through 28R-7837317; 2837001 through 2837061;
& 2844001 through 2844097
28R-7918001 through 28R-7918267
28R-8018001 through 28R-8218026
31-2 through 31-900; 31-7300901 through 31-8312019
31-7400990; 31-7512001 through 31-8312019
31-5001 through 31-5004; 31-7305005 through 31-8553002
31P-1 through 31P-109; 31P-7300110 through 31P-7730012
31P-8414001 through 31P-8414050
32-15; 32-21; 32-40000 through 32-40974; 32-7140001 through 32-7940290
32R-7680001 through 32R-7880068
32R-7885002 through 32R-7985106
32R-7787001; 32R-7887002 through 32R-7987126
32R-8013001 through 32R-8613006; 3213001 through 3213028;
& 3213030 through 3213041
3213029; 3213042 through 3213103; 3246001 through 3246213
32R-8029001 through 32R-8629008; 3229001 through 3229003
32-8006002 through 32-8606023; 3206001 through 3206019
32-8024001 through 32-8424002
3257001 through 3257326
34-7250001 through 34-7450220
4622001 through 4622200 & 4636001 through 4636343

COMPLIANCE TIME:

Within the next ten (10) hours of flight, but no later than July 1, 2003 in accordance with Lycoming Service Bulletin 557, Precision Service Bulletin PRS-105, dated 05/06/03.

(OVER)

ATA: 2800

APPROVAL: The technical content of this Service Bulletin has been shown to comply with the applicable Federal Aviation Regulations and is FAA approved.

PURPOSE: A number of fuel injection servos have been found to seep fuel from the metered fuel pressure port, due to scoring caused by a damaged test fitting. This bulletin identifies affected servos and provides information for repair.

INSTRUCTIONS:

1. Comply with Lycoming Service Bulletin 557/Precision Service Bulletin PRS-105.
2. Make a logbook entry indicating compliance with this Service Bulletin.

MATERIAL REQUIRED: See Lycoming Service Bulletin 557/Precision Service Bulletin PRS-105.

AVAILABILITY OF PARTS: Per Lycoming Service Bulletin 557/Precision Service Bulletin PRS-105.

EFFECTIVITY DATE: This Service Bulletin is effective upon receipt.

SUMMARY:

NOTE: If you are no longer in possession of this aircraft, please forward this information to the present owner/operator and notify the factory of address/ownership corrections. Changes should include aircraft model, serial number, current owner's name and address.

Corrections/changes should be directed to:

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

MANDATORY SERVICE BULLETIN

DATE: May 7, 2003 Service Bulletin No. 557
Engineering Aspects are
FAA Approved

SUBJECT: Reprint of Precision Airmotive Corporation Service Bulletin No. PRS-105

MODELS AFFECTED: This Service Bulletin applies to new, rebuilt, overhauled or repaired Lycoming fuel injected engines shipped from Lycoming between January 30, 2003 and May 5, 2003 equipped with Precision Airmotive Corporation fuel injection servos, Model RSA-5 or RSA-10 identified in Precision Service Bulletin No. PRS-105. Fuel injected engines are identified by the letter "I" in the prefix.

This Service Bulletin also affects Lycoming engines that have had a field replacement of or been field overhauled to employ a Precision Airmotive Corporation fuel injection servo identified in Precision Service Bulletin No. PRS-105.

This Service Bulletin also affects Precision Airmotive Corporation fuel injector servos identified in Precision Service Bulletin No. PRS-105 purchased as spares from Lycoming between January 30, 2003 and May 5, 2003.

TIME OF COMPLIANCE: Same as that required for Precision Airmotive Corporation Service Bulletin No. PRS-105.

Precision Airmotive Corporation Service Bulletin No. PRS-105 is reprinted in its entirety as follows. Lycoming requires compliance with this Service Bulletin.

If "Models Affected", above, applies to your Lycoming fuel injected engine or a Precision fuel injector purchased from Lycoming, check the injector serial number against the list in Section II of Precision Airmotive Corporation Service Bulletin No. PRS-105.

This reprint is current at the time Service Bulletin No. 557 is issued. However, when complying with this Service Bulletin, insure that this reprint of Precision Airmotive Corporation Service Bulletin No. PRS-105 is still current at the time of compliance.

WARRANTY:

Refer to Section IV of Precision Airmotive Corporation Service Bulletin No. PRS-105 for Warranty Information.



14800 40th Avenue NE
MARYSVILLE, WASHINGTON 98271
FAA-PMA FACILITY #PQ111NM

Service Bulletin Fuel Systems

Bulletin No.: PRS-105

Date 5/6/03

SUBJECT: **SERVO METERED FUEL PRESSURE PORT LEAKAGE**

SECTION I - PLANNING INFORMATION

A. EFFECTIVITY:

All RSA-5, and RSA-10 series Fuel Injection Servos manufactured, overhauled, rebuilt, or repaired by Precision Airmotive Corporation (PAC) between January 30, 2003, and April 24, 2003. A serial number listing is included in section II.

B. REASON:

A number of fuel injection servos have been found to seep fuel from the metered fuel pressure port, due to scoring caused by a damaged test fitting. This bulletin identifies affected servos and provides information for repair.

C. COMPLIANCE:

Within the next 10 hours of flight, but no later than July 1, 2003.

SECTION II - IDENTIFICATION OF AFFECTED SERVOS

A. SERVOS MANUFACTURED, OVERHAULED, REBUILT, OR REPAIRED BY PRECISION AIRMOTIVE:

The following serial number listing identifies fuel injection servos which were processed by PAC during the applicable time period, and have not yet been recovered by PAC (as of 5/5/03). Servos which have been corrected by PAC will be identified with an "M" stamped on the lower right corner of the data tag.

| Part Number | Serial Number(s) |
|-------------|------------------|
| 2524054-11 | 70287001 |
| | 70287002 |
| | 70287003 |
| | 70287004 |
| | 70287005 |
| | 70287006 |
| | 70287007 |
| | 70287008 |
| | 70287009 |
| | 70287010 |
| | 70307501 |
| | 70307502 |
| | 70307503 |
| | 70307504 |
| | 70313201 |

| Part Number | Serial Number(s) |
|---------------------------|------------------|
| 2524054-11 (Continued) | 31121 |
| | 37957 |
| | 40376 |
| | 47291 |
| | 47331 |
| | 47356 |
| | 51273 |
| | 54867 |
| | 59147 |
| | 61491 |
| | 71233 |
| | 80691 |
| | 210063 |
| | 961610 |
| | 1768641 |

| Part Number | Serial Number(s) |
|---------------------------|------------------|
| 2524054-11 (Continued) | 1989442 |
| | 70044909 |
| | 70098509 |
| | 70122603 |
| | 70122705 |
| | 70132807 |
| | 70135305 |
| | 70162808 |
| | 70190407 |
| | 87171247 |
| | 87171248 |
| | 88012053 |
| | 6163 |
| | 33067 |
| | 34539 |

| Part Number | Serial Number(s) |
|---------------------------|---|
| 2524054-11 (Continued) | 55753 70177 1126638 70002304 70079204 70102208 |
| 2524147-13 | 87261334 |
| 2524163-15 | 22138 25099 26780 29848 34119 37739 45177 49989 54239 62444 |
| 2524213-11 | 33767 |
| 2524273-12 | 70263806 70279901L 70279902R 3510 18805 42936 45499 66750 68160 75994 70111203 70118608 85000 70253502 |
| 2524275-16 | 23745 |
| 2524291-11 | 73273 70053303 60008 63409 29808124 |
| 2524297-10 | 70267808 14889 24383 |
| 2524307-10 | 16874 |
| 2524311-10 | 29840 |
| 2524318-10 | 70274304 70313401 70178202 |
| 2524335-10 | 673320 |
| 2524422-9 | 70343301 70343302 70343303 70343304 70343305 70343306 |
| 2524450-9 | 70287301 70287302 70287303 70287304 70287305 70287306 70287307 |

| Part Number | Serial Number(s) |
|--------------------------|---|
| 2524450-9 (Continued) | 31797 36496 39000 41530 41834 44025 45371 53602 61396 68562 70193704 70204504 |
| 2524500-9 | 70259605R 77635 70020104 70096708 |
| 2524556-9 | 19114 37257 60938 73501 77566 81445 82140 84542 137794 70176008 70253503 77583 |
| 2524590-8 | 61489 67597 87501887 |
| 2524592-8 | 70028507 |
| 2524649-11 | 70036003 |
| 2524752-7 | 70323501 70323502 70323503 70323504 70323505 70323506 |
| 2524791-7 | 77684 |
| 2524858-5 | 70279602 70279603 70288101 70288102 70288103 70288104 70288105 |
| 2524863-1 | 70286901 70286902 |
| 2524939-2 | 70351701 1793413 |
| 2524979-1 | 70267504 70287901 |
| 2549006-1 | 70288001 |
| 2549038-3 | 70253605 70263003 70002703 70007810 |

| Part Number | Serial Number(s) |
|--------------------------|--|
| 2549038-3 (Continued) | 70025103 70090007 70111507 70113810 70133404 70136406 70139406 70148509 70149610 70151101 70151102 70151110 70152903 70152909 70154608 70166904 70167003 70167004 70188406 70188408 |
| 2576524-2 | 70286603 |
| 2576536-2 | 70280709 70282504 70283405 70286801 70286802 70286803 70286804 70286805 70286806 70286807 70286808 70286809 70286810 70287501 70287502 70287503 70287504 70287505 70287506 70287507 70287508 70287509 70287510 70288201 70288202 70288203 70288204 70288205 70288206 70288207 70288208 70288209 70288210 70288401 70288402 70288403 70288404 70288405 70288406 70288407 |

| Part Number | Serial Number(s) |
|--------------------------|------------------|
| 2576536-2 (Continued) | 70288408 |
| | 70288409 |
| | 70288410 |
| | 70288701 |
| | 70288702 |
| | 70288703 |
| | 70288704 |
| | 70306901 |
| | 70306902 |
| | 70306903 |
| | 70306904 |
| | 70306905 |
| | 70306906 |
| | 70306907 |
| | 70306908 |
| | 70306909 |
| | 70306910 |
| | 70307201 |
| | 70307202 |
| | 70307203 |
| | 70307204 |
| | 70307205 |
| | 70307206 |
| | 70307207 |
| | 70307208 |
| | 70307209 |
| | 70307210 |
| | 70307301 |
| | 70307302 |
| | 70307303 |
| | 70307304 |
| | 70307305 |
| | 70307306 |
| | 70307307 |
| | 70307308 |
| | 70307309 |
| | 70307310 |
| | 70315701 |
| | 70315702 |
| | 70315703 |
| | 70315704 |
| | 70315705 |
| | 70315706 |
| | 70315707 |
| | 70315708 |
| | 70315709 |
| | 70315710 |
| | 70325401 |
| | 70325402 |
| | 70325403 |
| | 70325404 |
| | 70325405 |
| | 70325406 |
| | 70325407 |
| | 70325408 |
| | 70325409 |
| | 70325410 |
| | 70325501 |
| | 70325502 |
| | 70325503 |
| | 70325504 |

| Part Number | Serial Number(s) |
|--------------------------|------------------|
| 2576536-2 (Continued) | 70325505 |
| | 70325506 |
| | 70325507 |
| | 70325508 |
| | 70325509 |
| | 70325510 |
| | 70345501 |
| | 70345502 |
| | 70345503 |
| | 70345504 |
| | 70345505 |
| | 70345506 |
| | 70345507 |
| | 70345508 |
| | 70345509 |
| | 70244804 |
| | 70283304 |
| | 70132609 |
| | 70132610 |
| | 70135606 |
| | 70145210 |
| | 70145401 |
| | 70146406 |
| 2576540-7 | 70149001 |
| | 70194702 |
| | 70200704 |
| | 70137904 |
| | 70131607 |
| | 70131807 |
| | 70149007 |
| | 70177908 |
| | 70280503 |
| | 70283601 |
| 2576542-1 | 70283602 |
| | 70283603 |
| | 70283604 |
| | 70283605 |
| | 70283606 |
| | 70283607 |
| | 70283608 |
| 2576544-2 | 70283609 |
| | 70283610 |
| | 70326101 |
| | 70326102 |
| | 70328201 |
| 2576544-2 | 70328202 |
| | 70328203 |
| | 70328204 |
| | 70277606 |
| | 70287201 |
| 2576544-2 | 70287202 |
| | 70287203 |
| | 70287204 |
| | 70287205 |
| | 70287206 |
| | 70287207 |
| | 70287208 |
| | 70287209 |
| | 70287210 |
| | 70320001 |
| 2576544-2 | 70320002 |

| Part Number | Serial Number(s) |
|--------------------------|------------------|
| 2576544-2 (Continued) | 70320003 |
| | 70320004 |
| | 70320005 |
| | 70320007 |
| | 70320008 |
| 2576554-2 | 70185905 |
| | 70269605 |
| | 70273706 |
| | 70273709 |
| | 70273710 |
| | 70282402 |
| | 70288301 |
| | 70288302 |
| | 70288303 |
| | 70288304 |
| 2576562-2 | 70288305 |
| | 70288307 |
| | 70259705 |
| | 70139409 |
| | 70210410 |
| 2576568-1 | 70262804 |
| | 70264603 |
| | 70268106 |
| | 70276407 |
| | 70271007 |
| | 70288501 |
| | 70288502 |
| | 70288503 |
| | 70288504 |
| | 70288505 |
| 2576586-1 | 70288506 |
| | 70288507 |
| | 70305203 |
| | 70305205 |
| | 70305206 |
| | 70305207 |
| | 70305208 |
| | 70305209 |
| | 70305210 |
| | 70332601 |
| 2576590-1 | 70332602 |
| | 70332603 |
| | 70332604 |
| | 70332607 |
| | 70332608 |
| 2576592-1 | 70287801 |
| | 70287802 |
| | 70287803 |
| | 70287804 |
| | 70287805 |
| 2576592-1 | 70332701 |
| | 70332702 |
| | 70283101 |
| | 70283104 |
| | 70306801 |
| 2576592-1 | 70306802 |
| | 70306803 |
| | 70306804 |
| | 70306805 |
| | 70306805 |

| Part Number | Serial Number(s) |
|-------------|------------------|
| 2576630-1 | 70286105 |
| | 70286301 |
| | 70286302 |
| | 70286303 |
| | 70286304 |
| | 70286305 |
| | 70286306 |
| | 70286307 |
| | 70286308 |
| | 70286309 |
| | 70286310 |
| | 70286401 |
| | 70286402 |
| | 70286403 |
| | 70286404 |
| | 70286405 |
| | 70286406 |
| | 70286407 |
| | 70286408 |
| | 70286409 |
| | 70286410 |
| | 70286501 |
| | 70286502 |
| | 70286503 |
| | 70286504 |
| | 70286505 |
| | 70286506 |
| | 70286507 |
| | 70286508 |
| | 70286509 |
| | 70286510 |
| | 70287401 |
| | 70287402 |
| | 70287403 |
| | 70287404 |
| | 70287405 |
| | 70287406 |
| | 70287407 |
| | 70287408 |

| Part Number | Serial Number(s) |
|--------------------------|------------------|
| 2576630-1 (Continued) | 70287409 |
| | 70287410 |
| | 70287701 |
| | 70287702 |
| | 70287703 |
| | 70287704 |
| | 70287705 |
| | 70287706 |
| | 70287707 |
| | 70287708 |
| | 70287709 |
| | 70287710 |
| | 70313501 |
| | 70313502 |
| | 70313503 |
| | 70313504 |
| | 70313505 |
| | 70313506 |
| | 70313507 |
| | 70313508 |
| | 70313509 |
| | 70313510 |
| | 70313601 |
| | 70313602 |
| | 70313603 |
| | 70313604 |
| | 70313605 |
| | 70313606 |
| | 70313607 |
| | 70313608 |
| | 70313609 |
| | 70313610 |
| | 70313701 |
| | 70313702 |
| | 70313703 |
| | 70313704 |
| | 70313705 |
| | 70313706 |

| Part Number | Serial Number(s) |
|--------------------------|------------------|
| 2576630-1 (Continued) | 70313707 |
| | 70313708 |
| | 70313709 |
| | 70313710 |
| | 70331101 |
| | 70331102 |
| | 70331103 |
| | 70331104 |
| | 70331105 |
| | |

SECTION III – ACCOMPLISHMENT INSTRUCTIONS:

- A) If the aircraft has had a replacement servo (or replacement engine) installed between January 30, 2003 and the date of this publication, identify the serial number and determine if the unit is affected by this bulletin. If so, remove the servo from the aircraft and call Precision Airmotive Corporation's product support department to arrange repair of the affected servo. The servo will be repaired and returned to the operator. It should then be reinstalled in accordance with applicable engine and airframe maintenance manuals.

SECTION IV – WARRANTY INFORMATION:

- A) Remove and replace labor will be reimbursed in accordance with the published Lycoming or TCM labor allowance at the maintenance facility's posted shop rate.

Contact Information: Precision Airmotive Corporation
Product Support Department
(360)651-8282