



**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 40<sup>th</sup> 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	31121
(Continued)	37957
	40376
	47291
	47331
	47356
	51273
	54867
	59147
	61491
	71233
	80691
	210063
	961610
	1768641

Part Number	Serial Number(s)
2524054-11	1989442
(Continued)	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
	70149001
	70194702
	70200704
	70137904
	70131607
	70131807
	70149007
	70177908
2576540-7	70280503
	70283601
	70283602
	70283603
	70283604
	70283605
	70283606
	70283607
	70283608
	70283609
	70283610
2576542-1	70326101
	70326102
	70328201
	70328202
	70328203
	70328204
2576544-2	70277606
	70287201
	70287202
	70287203
	70287204
	70287205
	70287206
	70287207
	70287208
	70287209
	70287210
	70320001
	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
	70288305
	70288307
	70259705
	70139409
2576562-2	70210410
	70262804
	70264603
	70268106
	70276407
2576568-1	70271007
	70288501
	70288502
	70288503
	70288504
	70288505
	70288506
	70288507
	70305203
	70305205
	70305206
	70305207
	70305208
	70305209
	70305210
	70332601
	70332602
	70332603
	70332604
	70332607
	70332608
2576586-1	70287801
	70287802
	70287803
	70287804
	70287805
	70332701
	70332702
2576590-1	70283101
	70283104
2576592-1	70306801
	70306802
	70306803
	70306804
	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