

Diamond Aircraft Industries GmbH N.A. Otto-Straße 5 A-2700 Wiener Neustadt Austria

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SERVICE INFORMATION NO. SI 40-126

NOTE: SI's are used only:

- 1) To distribute information from DAI to our customers.
- 2) To distribute applicable information/documents from our suppliers to our customers with additional information.

Typically there is no revision service for SI's. Each new information or change of that will be sent along with a new SI.

I. TECHNICAL DETAILS

1.1 Airplanes affected:

All DA 40 airplanes

1.2 Subject:

FAA Airworthiness Directive No. 2011-15-10

ATA-Code: 73-00

1.3 Reason:

FAA has issued Airworthiness Directive No. 2011-15-10 mandating removal of the fuel servo in reference to AVStar Fuel Systems Mandatory Service Bulletin AFS-SB6, Revision 2 within 5 flight hours after the effective date of this Airworthiness Directive, in case an AVStar Fuel Systems diaphragm of a certain part number has been installed to the fuel servo of the engine.

1.4 Information:

For detailed technical information refer to FAA Airworthiness Directive No. 2011-15-10 which is applicable without any further additions or restrictions.

II. OTHERS

FAA Airworthiness Directive No. 2011-15-10 and AVStar Fuel Systems Mandatory Service Bulletin AFS-SB6, Revision 2 are attached to this Service Information.

In case of doubt contact AVStar Fuel Systems or Diamond Aircraft Industries.

[Federal Register Volume 76, Number 147 (Monday, August 1, 2011)]

[Rules and Regulations]

[Pages 45655-45657]

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[FR Doc No: 2011-18168]

Federal Register / Vol. 76, No. 147 / Monday, August 1, 2011 / Rules and Regulations

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. FAA-2011-0547; Directorate Identifier 2011-NE-13-AD; Amendment 39-16757; AD 2011-15-10]

RIN 2120-AA64

Airworthiness Directives; Superior Air Parts and Lycoming Engines (Formerly Textron Lycoming) Fuel-Injected Engines

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Final rule; request for comments.

SUMMARY: We are adopting a new airworthiness directive (AD) for certain Superior Air Parts and Lycoming (formerly Textron Lycoming) fuel-injected engines. This AD requires removing from service, certain fuel servos. This AD was prompted by an accident involving a Piper PA32R-301. We are issuing this AD to correct the unsafe condition on these products.

DATES: This AD is effective August 16, 2011.

The Director of the Federal Register approved the incorporation by reference of a certain publication listed in the AD as of August 16, 2011.

We must receive comments on this AD by September 15, 2011.

ADDRESSES: You may send comments, using the procedures found in 14 CFR 11.43 and 11.45, by any of the following methods:

- Federal eRulemaking Portal: Go to http://www.regulations.gov. Follow the instructions for submitting comments.
- Fax: 202-493-2251.
- Mail: U.S. Department of Transportation, Docket Operations, M-30, West Building Ground Floor, Room W12-140, 1200 New Jersey Avenue, SE., Washington, DC 20590.
- Hand Delivery: U.S. Department of Transportation, Docket Operations, M-30, West Building Ground Floor, Room W12-140, 1200 New Jersey Avenue SE., Washington, DC 20590, between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays.

For service information identified in this AD, contact AVStar Fuel Systems, Inc., 1365 Park Lane South, Jupiter, FL 33458; phone: 561-575-1560; Web site: www.avstardirect.com. You may

review copies of the referenced service information at the FAA, Engine & Propeller Directorate, 12 New England Executive Park, Burlington, MA 01803. For information on the availability of this material at the FAA, call 781-238-7125.

Examining the AD Docket

You may examine the AD docket on the Internet at http://www.regulations.gov; or in person at the Docket Management Facility between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays. The AD docket contains this AD, the regulatory evaluation, any comments received, and other information. The street address for the Docket Office (phone: 800-647-5527) is in the ADDRESSES section. Comments will be available in the AD docket shortly after receipt.

FOR FURTHER INFORMATION CONTACT: Neil Duggan, Aerospace Engineer, Atlanta Certification Office, FAA, 1701 Columbia Avenue, College Park, GA 30337; phone: 404-474-5576; fax: 404-474-5606; e-mail: neil.duggan@faa.gov.

SUPPLEMENTARY INFORMATION:

Discussion

On August 10, 2010, a Piper PA32R-301 airplane crashed after reporting a loss of engine power. The subsequent investigation by the National Transportation Safety Board suspects a faulty fuel servo, Bendix model RSA-10ED1. AVStar Fuel Systems (AFS) had overhauled the fuel servo using a new AFS diaphragm, part number (P/N) AV2541803. The diaphragm failed after 19 flight hours (FH) since new due to suspected manufacturing defects. AVStar Fuel Systems produces diaphragms, P/Ns AV2541801 and AV2541803 under a parts manufacturing authorization (PMA). Diaphragms produced from specific lot numbers could have stud threads that don't meet design, incomplete braze between the stud and hub, and studs made from lower temper material. Diaphragms from these lots could fail in fatigue prematurely. About 261 diaphragms, P/Ns AV2541801 and AV2541803, might still be service inside either AFS new or overhauled servos of any manufacturer (Bendix or Precision). Other overhaul facilities may also have purchased AFS diaphragms between the dates of May 21, 2010, and October 19, 2010, and used these diaphragms in their overhauls. This condition, if not corrected, could result in an in-flight engine shutdown due to a failed fuel servo diaphragm and damage to the airplane.

Relevant Service Information

We reviewed AFS Mandatory Service Bulletin (MSB) AFS-SB6, Revision 2, dated April 6, 2011. The MSB provides P/Ns and serial numbers (S/Ns) of affected servos.

FAA's Determination

We are issuing this AD because we evaluated all the relevant information and determined the unsafe condition described previously is likely to exist or develop in other products of the same type design.

AD Requirements

This AD requires, within 5 FH after the effective date of this AD, removing your fuel servo if AFS Diaphragm P/N AV2541801 or AV2541803 was installed at any time after May 20, 2010, as specified in AFS MSB AFS-SB6, Revision 2, dated April 6, 2011.

Differences Between the AD and the Service Information

AVStar Fuel Systems MSB AFS-SB6, Revision 2, dated April 6, 2011, doesn't specify a compliance time and recommends limiting special flight permits to delivery to a service location. This AD requires performing the required actions within 5 FH and prohibits special flight permits.

FAA's Justification and Determination of the Effective Date

An unsafe condition exists that requires the immediate adoption of this AD. The FAA has found that the risk to the flying public justifies waiving notice and comment prior to adoption of this rule because of the compliance requirement of 5 FH. Therefore, we find that notice and opportunity for prior public comment are impracticable and that good cause exists for making this amendment effective in less than 30 days.

Comments Invited

This AD is a final rule that involves requirements affecting flight safety and was not preceded by notice and an opportunity for public comment. However, we invite you to send any written data, views, or arguments about this AD. Send your comments to an address listed under the ADDRESSES section. Include the docket number FAA-2011-0547 and Directorate Identifier 2011-NE-13-AD at the beginning of your comments. We specifically invite comments on the overall regulatory, economic, environmental, and energy aspects of this AD. We will consider all comments received by the closing date and may amend this AD because of those comments.

We will post all comments we receive, without change, to http://www.regulations.gov, including any personal information you provide. We will also post a report summarizing each substantive verbal contact we receive about this AD.

Costs of Compliance

We estimate that this AD affects 60,000 engines installed on aircraft of U.S. registry. We also estimate that it will take about 0.5 work-hour per engine to perform the inspection, 2.0 work-hours per engine to remove the servo from 261 engines with discrepant AFS Diaphragm P/N AV2541801 or AV2541803 installed and that the average labor rate is \$85 per work-hour. We estimate the parts cost to be \$565 per servo. Based on these figures, we estimate the total cost of the AD to U.S. operators to be \$2,736,735.

Authority for This Rulemaking

Title 49 of the United States Code specifies the FAA's authority to issue rules on aviation safety. Subtitle I, section 106, describes the authority of the FAA Administrator. "Subtitle VII: Aviation Programs" describes in more detail the scope of the Agency's authority.

We are issuing this rulemaking under the authority described in subtitle VII, part A, subpart III, section 44701: "General requirements." Under that section, Congress charges the FAA with promoting safe flight of civil aircraft in air commerce by prescribing regulations for practices, methods, and procedures the Administrator finds necessary for safety in air commerce. This regulation is within the scope of that authority because it addresses an unsafe condition that is likely to exist or develop on products identified in this rulemaking action.

Regulatory Findings

This AD will not have federalism implications under Executive Order 13132. This AD will not have a substantial direct effect on the States, on the relationship between the national government and

the States, or on the distribution of power and responsibilities among the various levels of government.

For the reasons discussed above, I certify that this AD:

- (1) Is not a "significant regulatory action" under Executive Order 12866,
- (2) Is not a "significant rule" under DOT Regulatory Policies and Procedures (44 FR 11034, February 26, 1979),
 - (3) Will not affect intrastate aviation in Alaska, and
- (4) Will not have a significant economic impact, positive or negative, on a substantial number of small entities under the criteria of the Regulatory Flexibility Act.

List of Subjects in 14 CFR Part 39

Air transportation, Aircraft, Aviation safety, Incorporation by reference, Safety.

Adoption of the Amendment

Accordingly, under the authority delegated to me by the Administrator, the FAA amends 14 CFR part 39 as follows:

PART 39-AIRWORTHINESS DIRECTIVES

1. The authority citation for part 39 continues to read as follows:

Authority: 49 U.S.C. 106(g), 40113, 44701.

§ 39.13 [Amended]

2. The FAA amends § 39.13 by adding the following new airworthiness directive (AD):

AIRWORTHINESS DIRECTIVE



www.faa.gov/aircraft/safety/alerts/ www.gpoaccess.gov/fr/advanced.html

2011-15-10 Superior Air Parts and Lycoming Engines (formerly Textron Lycoming):

Amendment 39-16757; Docket No. FAA-2011-0547; Directorate Identifier 2011-NE-13-AD.

(a) Effective Date

This AD is effective August 16, 2011.

(b) Affected ADs

None.

(c) Applicability

This AD applies to the Superior Air Parts engine models and Lycoming engine models listed in Table 1 of this AD with an AVStar Fuel Systems (AFS) fuel servo diaphragm, part numbers (P/Ns) AV2541801 and AV2541803, installed.

Table 1-Affected Lycoming and Superior Air Parts Engines

Engine Manufacturer	Engine Model
Lycoming Engines	AEIO-320-D1B, -D2B, -E1A, -E1B, -E2A, -E2B
	AIO-320-A1A, -A1B, -A2A, -A2B, -B1B, -C1B
	IO-320-A1A, -A2A, -B1A, -B1B, -B1C, -B1E, -B1D, -B2A, -C1A, -C1B, -D1A, -D1C, -D1B, -E1A, -E1B, -E2A, -E2B, -F1A
	LIO-320-B1A, -C1A
	AEIO-360-A1A, -A1B, -A1B6,-A1E6, -A1C, -A1D, -A1E, -A2A, -A2B, -A2C, -B1B, -B1D, -B1F, -B1F6, -B1G6, -B2F, -B2F6, -B1H, -B4A, -H1A,-H1B
	AIO-360-A1A, -A1B, -A2A, -A2B, -B1B
	HIO-360-A1A,-A1B, -B1A, -B1B, -C1A, -C1B, -E1AD, -E1BD, -F1AD, -G1A
	IO-360-A1A, -A1B, -A1B6, -A1B6D, -A1C, -A1D, -A1D6, -A1D6D, -A2A, -A2B, -A2C, -A3B6,-A3B6D, -A3D6D, -B1A, -B1B, -B1C, -B1D, -B1E, -B1F, -B1F6, -B1G6 -B2E, -B2F, -B2F6, -B4A, -C1A, -C1B, -C1C, -C1C6, -C1D6, -C1E6, -C1E6D, -C1F,-C1G6, -D1A, -E1A, -F1A, -J1AD, -J1A6D, -K2A, -L2A, -M1A, -M1B
	LIO-360-C1E6, -M1A
	TIO-360-A1A, -A1B, -A3B6, -C1A6D

	IO-540-A1A5, -B1A5, -B1B5, -B1C5, -C1B5, -C1C5, -C2C, -C4B5, -				
	C4B5D, -C4D5, -C4C5, -C4D5D, -D4A5, -D4B5, -D4C5, -E1A5, -				
	E1B5, -E1C5, -G1A5, -G1B5, -G1C5, -G1D5, -G1E5, -G1F5, -J4A5, -				
	K1A5, -K1A5D, -K1B5, -K1B5D, -K1C5, -K1D5, -K1E5, -K1E5D, -				
	K1F5, -K1F5D, -K1G5, -K1G5D, -K1H5, -K1J5, -K1J5D, -K1K5, -				
	K2A5, -L1A5, -L1A5D, -L1B5D, -L1C5, -M1A5, -M1A5D, -M1B5D,				
	-M1C5, -M2A5D, -N1A5, -P1A5, -R1A5, -S1A5, -T4A5D, -T4B5, -				
	T4B5D, -T4C5D, -U1A5D, -U1B5D, -V4A5D, -V4A5, -W1A5, -				
	W1A5D, -W3A5D, -AA1A5, -AA1B5, -AB1A5, -AC1A5, -AE1A5, -				
	AF1A5				
	IGO-480-A1A6, -A1B6				
	AEIO-540-D4A5, -D4B5, -D4C5, -D4D5, -L1B5D, -L1B5, -L1D5				
	IVO-540-A1A				
	TIO-540-A1A, -A1B, -A2A, -A2B, -A1C, -A2C, -C1A, -E1A, -F2BD,				
	-G1A, -H1A, -J2B, -J2BD, -K1AD, -N2BD, -R2AD, -S1AD, -T2AD,				
	-U2A, -V2AD, -W2A, -AA1AD, -AB1AD, -AB1BD -AE2A, -AF1A,				
	-AF1B, -AG1A, -AH1A, -AJ1A, AK1A				
	LTIO-540-F2BD, -J2B, -J2BD, -K1AD, -N2BD, -R2AD, -U2A, -				
	V2AD, -W2A				
	IO-720- A1A, -A1B, -A1BD, -B1A, -B1B, -B1BD, -C1B, -C1BD, -				
	D1B, -D1BD, -D1C, -D1CD				
	TIGO-541-B1A, -C1A, -D1A, -D1B, -E1A, -G1AD				
Superior Air Parts	IO-360-A1A1, A1A2, A2A1, A2A2, A3A1, A3A2, B1A1, B1A2,				
	B2A1, B2A2, B3A1, B3A2, B4A1, B4A2, B5A1, B5A2, B6A1,				
	B6A2, C1A1, C1A2, C2A1, C2A2, C2A1, C3A2, D1A1, D1A2,				
	D2A1, D2A2, D3A1, D3A2, D4A1, D4A2, D5A1, D5A2, D6A1,				
	D6A2, E1A1, E1A2, E2A1, E2A2, E3A1, E3A2				

(d) Unsafe Condition

This AD was prompted by an accident involving a Piper PA32R-301. We are issuing this AD to correct the unsafe condition on these products.

(e) Compliance

Comply with this AD within the compliance times specified, unless already done.

(f) Remove Fuel Servo

If an AFS fuel servo diaphragm P/N AV2541801 or AV2541803 was installed in your fuel servo at any time after May 20, 2010, do the following as specified AVStar Fuel Systems (AFS) Mandatory Service Bulletin (MSB) AFS-SB6, Revision 2, dated April 6, 2011:

- (1) Before further flight remove the fuel servo.
- (2) After the effective date of this AD, don't install any affected fuel servo containing a discrepant AVStar fuel servo diaphragm, P/N AV2541801 or AV2541803, as listed in AFS MSB AFS-SB6, Revision 2, dated April 6, 2011.

(g) Special Flight Permit

We will not issue a special flight permit.

(h) Alternative Methods of Compliance (AMOCs)

The Manager, Atlanta Aircraft Certification Office, FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in 14 CFR 39.19.

(i) Related Information

For more information about this AD, contact Neil Duggan, Aerospace Engineer, Atlanta Certification Office, FAA, 1701 Columbia Avenue, College Park, GA 30337; phone: (404) 474-5576; fax: (404) 474-5606; e-mail: neil.duggan@faa.gov.

(j) Material Incorporated by Reference

- (1) You must use AVStar Fuel Systems Mandatory Service Bulletin AFS-SB6, Revision 2, dated April 6, 2011, to do the actions required by this AD, unless the AD specifies otherwise. The Director of the Federal Register approved the incorporation by reference (IBR) under 5 U.S.C. 552(a) and 1 CFR part 51 of the following service information on the date specified:
- (2) The Director of the Federal Register approved the incorporation by reference of AVStar Fuel Systems Mandatory Service Bulletin AFS-SB6, Revision 2, dated April 6, 2011, on September 6, 2011 under 5 U.S.C. 552(a) and 1 CFR part 51.
- (3) For service information identified in this AD, contact AVStar Fuel Systems, Inc., 1365 Park Lane South, Jupiter, FL 33458; 561-575-1560; Web site: http://www.avstardirect.com.
- (4) You may review copies of the service information at the FAA, 12 New England Executive Park, Burlington, MA 01803. For information on the availability of this material at the FAA, call 781-238-7125.
- (5) You may also review copies of the service information that is incorporated by reference at the National Archives and Records Administration (NARA). For information on the availability of this material at an NARA facility, call 202-741-6030, or go to http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html.

Issued in Burlington, Massachusetts, on July 13, 2011. Colleen M. D'Alessandro, Acting Manager, Engine & Propeller Directorate, Aircraft Certification Service.



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THE FRACTURE OF A FUEL DIAPHRAGM STUD IN FUEL SERVOS

Engineering aspects of this Bulletin are FAA approved.

1. APPLICABILITY

This Service Bulletin applies to RSA-5AB1, RSA-5AD1, RSA-10AD1, RSA-10DB1, RSA-10DB2, RSA-10ED1 and RSA-10ED2 fuel servos overhauled or manufactured by AVStar Fuel Systems (AVStar) between May 21, 2010 and October 19, 2010. It also applies to fuel servos of any make (AVStar, Bendix, Precision, etc.) overhauled by others using AVStar Value Kits (P/N's AVK-5AB1, AVK-5AD1, AVK-10AD1, AVK-10ED1 and AVK-10ED2) and/or Fuel Diaphragms (P/Ns AV2541801 and AV2541803) purchased from AVStar between May 21, 2010 and October 19, 2010. A list of serial numbers of servos and lot numbers of the diaphragm assemblies affected by this Bulletin are included as Attachments A and B and further can be found on our website at www.avstardirect.com.

2. REASON FOR PUBLICATION

There has been a report of a possible failure after 19 hours of an RSA-10ED1 fuel servo overhauled by AVStar that may involve the fuel diaphragm assembly. This report involved an aircraft that lost power and crashed. The fuel diaphragm assemblies being investigated are limited to those AVStar fuel diaphragm assemblies manufactured between May 21, 2010 and October 19, 2010 and further limited to the lot numbers and/or servo serial numbers shown in Attachments A and B.

3. SAFETY FIRST

AVStar is committed to its customer's safety through technical innovation. AVStar has no authority to compel owners to act responsibly and take prudent action to insure their and others safety, but the company believes compliance with this MANDATORY SERVICE BULLETIN is important and will insure a safer product.



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MANDATORY SERVICE BULLETIN

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THE FRACTURE OF A FUEL DIAPHRAGM STUD IN FUEL SERVOS

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4. COMPLIANCE

THE POSSIBILITY EXISTS OF SERVO FAILURE WITHOUT WARNING WITH THE POTENTIAL OF A TOTAL LOSS OF POWER. IT IS RECOMMENDED THAT FLIGHTS BE LIMITED TO DELIVERING THE AIRCRAFT TO A SERVICE FACILITY.

If the fuel servo is an affected unit that was overhauled by AVStar, or if it contains an affected AVStar fuel diaphragm assembly installed by another facility, the servo is to be removed from the aircraft and returned to AVStar for immediate inspection and repair.

5. EVIDENCE OF COMPLIANCE

After replacement of the affected fuel diaphragm assembly, compliance with this service bulletin will be noted on the servo data tag by adding the mark SB6 as shown in Figs 3 and 4 below.



Fig 3



Fig 4



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THE FRACTURE OF A FUEL DIAPHRAGM STUD IN FUEL SERVOS

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6. WARRANTY STATEMENT

Affected units must be returned directly to AVStar for repair or replacement at AVStar's discretion upon validation and approval of Claim Form AFS-900-F98 and the assignment of a Return Material Authorization (RMA) number (See Claim Process below). In the event that a Value Kit or a separately purchased fuel diaphragm assembly from the affected lots was used to overhaul a fuel servo, AVStar will also repair or replace the servo as described above. There will be no charge to the customer for repair of the diaphragm assembly or replacement of the affected unit. However, in the event that AVStar elects to repair the diaphragm assembly rather than to replace the unit and evaluation of the unit indicates that additional repairs above and beyond those to the diaphragm assembly are required in order to insure airworthiness, the customer will be contacted and standard rates will apply.

Unused fuel diaphragms included in Value Kits from the affected lots will be replaced at no charge.



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THE FRACTURE OF A FUEL DIAPHRAGM STUD IN FUEL SERVOS

Engineering aspects of this Bulletin are FAA approved.

The Customer has the following options for reimbursement of removal and installation labor:

OPTION 1: AVStar will offer a removal and installation labor allowance in accordance with the following table at a maximum of \$75 USD per hour. No other claims for financial compensation will be reimbursed. Customers selecting this option do so instead of the reimbursement under Options 2 or 3.

owance		ormali spirate	•	Tui	rbo	TGIO-541	He Norn Aspir	nally	i Turbo	harged	IO-360	IO-	540		TIO-	540	
Allo	4 Cyl	6 Cyl	8 Cyl	4 Cyl	6 Cyl	TIO &	4 Cyl	6 Cyl	He	S/c	L2A	AB1A5	AC1A5	AF1B	AH1A	AJ1A	AE2A
(Hr)	2.5	2.5	1.5	2.5	2.5	2.0	2.5	2.5	2.5	2.5	2.0	2.0	2.0	2.5	3.0	2.0	8.0

OPTION 2: AVStar will offer a renewed Limited Warranty for each affected unit. The renewed Warranty shall be for 48 months or 900 engine hours from the date the repaired unit is returned (based on shipping date). This is a not a 48 month addition to the standard Limited Warranty. Customers selecting this option do so instead of the reimbursement under Options 1 or 3.

OPTION 3: AVStar will offer a \$300 credit towards the customer's next servo overhaul. The credit will be valid for a 10 year period from the date the repaired unit is returned (based on shipping date). Customers selecting this option do so instead of the reimbursement under Options 1 or 2.

The customer must select the desired Option on Claim Form AFS-900-F98 before signing and returning it to AVStar.



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THE FRACTURE OF A FUEL DIAPHRAGM STUD IN FUEL SERVOS

Engineering aspects of this Bulletin are FAA approved.

CLAIM PROCESS:

1. Complete Claim Form AFS-900-F98 (see Attachment C).

2. Submit to -

> AVStar Fuel Systems, Inc. 1365 Park Lane South

Jupiter, FL 33458

Tel: (561) 575-1560 Fax: (561) 575-0795

Email: <u>sb@avstardirect.com</u>

3. Return the affected unit or fuel diaphragm assembly under the assigned RMA. The unit must be returned according to the packing and shipping instructions in the RMA.

No warranty consideration will be made until the customer has complied with the above claim process. However, requested special arrangements (made in writing) may be made for international customers. All other terms and conditions of AVStar's Limited Warranty Policy shall apply.

7. ATTACHMENTS

- Model, Part Number and Serial Number of affected servos Α.
- В. Lot numbers of affected fuel diaphragm assemblies
- C. Claim Form AFS-900-F98



THE FRACTURE OF A FUEL DIAPHRAGM STUD

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Engineering aspects of this Bulletin are FAA approved.

ATTACHMENT A: Model, Part Number and Serial Number of affected servos

Model	Part Number	Serial Number
RSA-5AD1	2524054-10	4143
RSA-5AD1	2524243-11	10121
RSA-5AD1	2524450-9	10926
RSA-5AD1	2524450-8	11710
RSA-5AD1	2524145-12	13011
RSA-10ED1	2524556-9	15517
RSA-5AD1	2524054-11	17640
RSA-5AD1	2524550-8	18653
RSA-5AD1	2524145-12	18970
RSA-5AD1	2524297-10	19758
RSA-10AD1	2524163-15	20748
RSA-5AD1	2524590-7	23147
RSA-10AD1	2524163-13	24367
RSA-5AD1	2524450-9	27299
RSA-5AD1	2524450-9	27312
RSA-5AD1	2524590-8	27890
RSA-10AD1	2524163-13	31853
RSA-10ED1	2524273-12	34763
RSA-5AD1	2524213-10	35210
RSA-5AD1	2524054-10	35862
RSA-10ED1	2524273-12	36004
RSA-5AD1	2524590-7	36039
RSA-10ED1	2524273-12	37244
RSA-5AD1	2524590-8	37694
RSA-5AD1	2524590-8	38283
RSA-5AD1	2524450-9	40315
RSA-5AD1	2524590-8	43301
RSA-5AD1	2524550-8	45341
RSA-5AD1	2524590-8	47100
RSA-5AD1	2524147-13	47391
RSA-5AD1	2524905-2	49636
RSA-5AD1	2524054-11	51728
RSA-5AD1	2524054-10	54841
RSA-10ED1	2524582-8	55878

Any questions regarding Service Bulletin are to be directed to AVStar Fuel Systems, Inc. at www.avstardirect.com, or call (561) 575-1560



www.avstardirect.com

MANDATORY SERVICE BULLETIN

DOCUMENT: AFS-SB6

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Model	Part Number	Serial Number
RSA-5AD1	2524054-11	55976
RSA-5AD1	2524054-11	56017
RSA-5AD1	2524054-11	56869
RSA-10ED1	2524273-12	56963
RSA-10ED1	2524273-12	58153
RSA-5AD1	2524054-11	58950
RSA-5AD1	2524450-9	59779
RSA-10ED1	2524500-9	61438
RSA-5AD1	2524054-11	62352
RSA-10AD1	2524163-15	62439
RSA-10ED1	2524273-12	63114
RSA-5AD1	2524054-10	63834
RSA-5AD1	2524450-9	65906
RSA-5AD1	2524450-9	65951
RSA-5AD1	2524682-8	66456
RSA-5AD1	2524450-9	67459
RSA-10ED1	2524273-12	68116
RSA-10ED2	2524791-6	69673
RSA-5AD1	2524213-10	69915
RSA-10ED1	2524500-9	70706
RSA-5AD1	2524054-10	71201
RSA-10ED1	2524500-8	72078
RSA-10ED1	2524500-8	77459
RSA-10ED1	2524500-9	77528
RSA-5AD1	2524213-11	77945
RSA-5AD1	2524450-9	78337
RSA-10ED1	2524273-12	78829
RSA-10ED1	2524273-11	79040
RSA-10AD1	2524163-15	81485
RSA-10AD1	2524163-15	81493
RSA-10AD1	2524163-15	81504
RSA-5AD1	2524054-11	82235
RSA-5AD1	2524213-11	997411
RSA-10ED1	2524500-9	70017104
RSA-10AD1	2524757-7	70022001
RSA-10ED1	2524500-9	70027507
RSA-5AD1	2524054-11	70050502



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Model	Part Number	Serial Number
RSA-5AD1	2524450-9	70054102
RSA-5AD1	2549050-1	70080709
RSA-10ED1	2524500-9	70090105
RSA-10ED1	2524273-12	70091005
RSA-5AD1	2524054-11	70122706
RSA-5AD1	2524054-11	70129709
RSA-5AD1	2576536-2	70134206
RSA-5AD1	2576536-2	70141008
RSA-5AD1	2576536-2	70144804
RSA-5AD1	2524752-7	70147603
RSA-10ED1	2524273-12	70155003
RSA-5AD1	2576536-2	70156707
RSA-10ED1	2524500-9	70157203
RSA-5AD1	2524054-11	70162308
RSA-10ED1	2524500-9	70166004
RSA-5AD1	2576536-2	70176203
RSA-5AD1	2576536-2	70181608
RSA-5AD1	2524054-11	70185408
RSA-5AD1	2576536-2	70191803
RSA-10ED1	2576562-1	70193507
RSA-10ED1	2576554-1	70193607
RSA-5AD1	2576544-2	70194101
RSA-5AD1	2576536-2	70198302
RSA-5AD1	2524054-11	70204204
RSA-10ED1	2524273-12	70210808
RSA-10ED1	2524273-12	70216501
RSA-10ED1	2576554-2	70223303
RSA-10ED1	2576546-1	70225006
RSA-5AD1	2576544-3	70227101
RSA-5AD1	2576536-2	70229809
RSA-5AD1	2524297-10	70233107
RSA-5AD1	2576524-2	70233501
RSA-5AD1	2576536-2	70237609
RSA-5AD1	2576536-2	70245107
RSA-5AD1	2576536-2	70245509
RSA-5AD1	2576536-2	70248507
RSA-5AD1	2576536-2	70258309



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Model	Part Number	Serial Number
RSA-5AD1	2576536-2	70258401
RSA-5AD1	2524450-9	70261505
RSA-5AD1	2576536-2	70262409
RSA-5AD1	2576568-1	70267804
RSA-5AD1	2576536-2	70268006
RSA-10ED1	2524273-12	70271904
RSA-10ED1	2576554-2	70276607
RSA-5AD1	2576536-2	70277808
RSA-5AD1	2576536-2	70278709
RSA-5AD1	2576536-2	70280708
RSA-5AD1	2576536-2	70283304
RSA-5AD1	2576536-2	70283305
RSA-5AD1	2576536-2	70285102
RSA-5AD1	2576536-2	70285309
RSA-5AD1	2576536-2	70288203
RSA-5AD1	2576536-2	70288703
RSA-10AD1	2576630-4	70369801
RSA-10AD1	2576630-4	70382005
RSA-10AD1	2576630-4	70382107
RSA-10ED1	2576554-2	70392806
RSA-10ED1	2524273-12	70427704
RSA-5AD1	2576536-2	70523707
RSA-5AD1	2576536-2	70523709
RSA-10AD1	2576630-4	70664609
RSA-5AD1	2576536-2	70692709
RSA-5AD1	2576536-2	70709802
RSA-5AD1	2524054-11	70741105
RSA-5AD1	2576536-2	70742402
RSA-10ED1	2576546-3	70744606
RSA-5AD1	2576536-2	70773203
RSA-5AD1	2576586-1	70773909
RSA-10ED1	2524500-9	70784109
RSA-5AD1	2576536-2	70821407
RSA-10ED1	2576562-4	70879504
RSA-5AD1	2576586-1	70882910
RSA-10AD1	2576630-4	70885610
RSA-5AD1	2576586-1	70949408



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Model	Part Number	Serial Number
RSA-10AD1	2576630-4	70949509
RSA-5AD1	2576536-2	70979007
RSA-10ED1	2524500-9	87171200
RSA-10AD1	2524757-7	87361603
RSA-10ED1	2576562-4	770268101
RSA-5AD1	2576536-2	70A89708
RSA-10ED1	2576546-3	70AA0406
RSA-5AD1	2576536-2	70AJ4906
RSA-10ED1	2576546-3	70AM0309
RSA-10ED1	2576562-4	70AU0208
RSA-5AD1	2576536-2	70AU7110
RSA-5AD1	2576536-2	70AW2608
RSA-10ED1	2524273-12	70B08310
RSA-5AD1	2576544-3	70BM3207
RSA-10ED1	2524500-9	70CE4106
RSA-5AD1	2576536-2	70CJ8106
RSA-5AD1	2576586-1	70CM2106
AVX-5VA1	AVX3015006-1	AV014090
AVX-5VA1	AVX3015006-1	AV014091
AVX-5VA1	AVX3015006-1	AV014092
AVX-5VA1	AVX3015006-1	AV014103
AVX-5VA1	AVX3015008-1	AV014224
RSA-10ED1	61M26612-Y	AV101358
RSA-10ED1	AV2576554-3	AV106683
RSA-10ED1	AV2576554-3	AV106684
RSA-5AD1	AV2576536-2	AV117671
RSA-5AD1	AV2576544-3	AV1176716
RSA-5AD1	AV2576544-3	AV1176717
RSA-5AD1	AV2576544-3	AV1176718
RSA-5AD1	AV2576544-3	AV1176719
RSA-5AD1	AV2576536-2	AV117672
RSA-5AD1	AV2576544-3	AV1176720
RSA-5AD1	AV2524450-9	AV1176721
RSA-5AD1	AV2524450-9	AV1176722
RSA-5AD1	AV2524450-9	AV1176723
RSA-5AD1	AV2524450-9	AV1176724
RSA-5AD1	AV2524450-9	AV1176725



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RSA-5AD1	AV2576536-2	AV117673
RSA-5AD1	AV2576536-2	AV117674
RSA-5AD1	AV2576536-2	AV117675
RSA-5AD1	AV2576536-2	AV119661
RSA-5AD1	AV2576544-3	AV1196616
RSA-5AD1	AV2576544-3	AV1196617
RSA-5AD1	AV2576544-3	AV1196618
RSA-5AD1	AV2576544-3	AV1196619
RSA-5AD1	AV2576536-2	AV119662
RSA-5AD1	AV2576544-3	AV1196620
RSA-5AD1	AV2524450-9	AV1196621
RSA-5AD1	AV2524450-9	AV1196622
RSA-5AD1	AV2524450-9	AV1196623
RSA-5AD1	AV2524450-9	AV1196624
RSA-5AD1	AV2524450-9	AV1196625
RSA-5AD1	AV2576536-2	AV119663
RSA-5AD1	AV2576536-2	AV119664
RSA-5AD1	AV2576536-2	AV119665



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ATTACHMENT B: Lot numbers of affected Fuel Diaphragms and Value Kits

Name	Part Number	Lot Number
Diaphragm	AV2541801	L100515
Diaphragm	AV2541803	L100515
Diaphragm	AV2541801	L100672
Diaphragm	AV2541803	L100672
Diaphragm	AV2541801	L100758
Diaphragm	AV2541803	L100758

Name	Part Number	Qty	Lot Number
Value Kit	AVK-10AD1	1	011975
Value Kit	AVK-10AD1	1	014298
Value Kit	AVK-10AD1	1	014698
Value Kit	AVK-10ED1	4	013757
Value Kit	AVK-10ED1	4	014413
Value Kit	AVK-10ED1	4	014685
Value Kit	AVK-10ED2	1	014405
Value Kit	AVK-5AD1	18	013859
Value Kit	AVK-5AD1	6	014078
Value Kit	AVK-5AD1	6	014208
Value Kit	AVK-5AD1	2	014450
Value Kit	AVK-5AD1	5	014461
Value Kit	AVK-5AD1	1	014638
Value Kit	AVK-5AD1	5	014744
Value Kit	AVK-5AD1	5	014798
Value Kit	AVK-5AD1	2	014802



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ATTACHMENT C:

Claim Form AFS-900-F98		AVSTAR FUEL SYSTEMS, INC. 1365 Park Lane South Jupiter, FL 33458 (561) 575-1560 (561) 575-0795 I sb@avstardirect.com www. avstardirect.com	Fax
Customer Information: Customer Name:			
• •			
		Country:	
Tel. No:	Fax No:	email:	
Aircraft Information:			
Make:	Model:	Year: Total Time:	
"N" Number:	Engine Model:	Total Time on Engine:	
Aircraft Use: Personal	Business	(Selection will not affect Warranty)	
Unit Information: Name: Fuel Servo Model Nun	nber: Part Number: _	Serial Number:	
Date Installed:	Hours in Service:	Date Removed:	
Reason for Claim: RETURNE	D FOR FUEL DIAPHRAGM REP	PLACEMENT PER SERVICE BULLETIN AFS SB6	
	INSTRUCT	TONS	
Complete ALL INFORMATIO receive a Return Material Aut		o (561) 575-0795 or email: sb@avstardirect.com to	
Select Option below.			
OPTON 1: (Labor reimbursen	nent) 🗀	Custom	
OPTION 2: (Warranty extensi	ion) 🖵	Custom	
OPTION 3: (Service Credit)		Custom	
(A valid receipt for labor incu	rred will be required for reimburse	ement if Option 1 is selected.)	
If an affected servo or fuel or repair.	diaphragm assembly is in stock	and unused, it must be returned to AVStar for	
RECEIVED AND VERIFIED.	AFTER RECEIPT OF THE RETU	BE PROVIDED UNTIL ALL INFORMATION IS URN MATERIAL AUTHORIZATION FORM, THE BY FOLLOWING THE PACKAGING AND SHIPPIN	<u>G</u>

Any questions regarding Service Bulletin are to be directed to AVStar Fuel Systems, Inc. at www.avstardirect.com, or call (561) 575-1560

INSTRUCTIONS STATED ON THE RETURN MATERIAL AUTHORIZATION FORM.