## INDEX OF MANUALS, BULLETINS, AND SERVICE INFORMATION LETTERS

for

## PRECISION AIRMOTIVE FUEL CONTROLS

### **RS/RSA FUEL INJECTION**



17716 48<sup>th</sup> DR NE ARLINGTON, WA 98223 The information contained in this publication references the latest published instructions regarding overhaul and maintenance of Precision Airmotive Fuel Controls as of the date of publication. We suggest you use this index as a guide to verify that your RS/RSA service information is complete and up to date. Should you find that you are missing published material or that manuals and bulletins are not to the latest revision, please contact the Product Support Department at Precision Airmotive LLC:

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Telephone: (360) 651-8282 Telefax: (360) 651-8080

NOTE: The information contained in this index has been compiled by Precision Airmotive LLC in an effort to provide a historical record of service information relating to the RS/RSA fuel controls. This information is based on the records available at the time of publication.

We will continue our efforts to locate information relating to our products. If you are aware of service information relating to these products which is not referenced in this index, or if you have any questions regarding the information in the index, we ask that you contact Precision Airmotive's Product Support Department at the above address.

<u>WARNING:</u> These manuals and other service publications have been written and updated to address the overhaul, rework, and repair of Precision Airmotive (or Bendix) fuel injection components. These Precision Airmotive manuals may only be used with parts manufactured by Precision Airmotive. The procedures, specifications, and tolerances contained within these manuals do not apply to parts manufactured by other replacement parts manufacturers under a separate FAA/PMA. Such non-Precision Airmotive parts are not authorized by Precision Airmotive for installation in the RS and RSA fuel injection systems, and may not be installed per these manuals, and such parts may not be used in conjunction with replacement parts manufactured by Precision Airmotive. Always refer to service publications published by the manufacturer of the FAA/PMA approved replacement parts when using those parts.

NOTE: Vertical black bands in the margin denote changes from the previous release.

Service Publications no longer available are indicated by an asterisk (\*)

### **FUEL INJECTION PUBLICATIONS**

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	<u>Form No.</u>	Description	Date	Change; Date
1.	Component N	Maintenance- Manual Index:		
	15-318C	Model RS-10B1 and RS-10ED2 Fuel Injectors	10-1-76	
	15-362C	Model RS-10ED1 Fuel Injector	11-1-75	1; 7-15-77
	15-368C	Model RS-10FB1 Fuel Injector, Air Bleed Nozzle Assembly, and Model FM-A1 Flowmeter Modulator Assembly	7-1-87	
	15-381H	Model RSA-5AD1 Fuel Injector	12-20-18	2; 1-3-23
	15-419D 15-419C	Model RSA-5AB1 Fuel Injector NOTE: Revision D was a change which did not affect technical information. Both Revision C and Revision D are considered current manuals.	2-24-90 5-30-85	
	15-433D	Model RSA-10AD1 Fuel Injection Servo	9-1-94	
	15-458G	Model RSA-10ED1 Fuel Injector	8-15-88	1; 12-15-90
	15-471E	Model RSA-10DB1 Fuel Injector	2-1-89	1; 8-31-90

	<u>Form No.</u>	Description	Date	<u>Change; Date</u>	
1.	Component N	Maintenance- Manual Index (cont'd):			
	15-520B	Model RSA-7AA1 Fuel Injector	6-15-85	2; 11-21-90	
	15-540H	Flow Dividers Used with RS/RSA Injectors	1-16-18		
	15-541F	Air Bleed Nozzles Used With RS/RSA Injectors	12-4-14		
	15-542C	Model RSA-10DB2 Fuel Injector	8-15-88		
	15-543A	Pressurizing Valve Kit	7-15-71		
	15-549B	Distributor Valve Assembly	8-1-87	1; 1-7-94	
	15-633B	Model RSA-7DA1 Fuel Injector	4-15-89		
	15-700A	Model RSA-10ED2 Fuel Injector	8-1-85		
	15-900B	Model RSA-5AD2 (P/N 2576540)	12-30-13		
2.	Operation and	d Service - Manual Index:			
	15-338E	Model RSA-5 and RSA-10AD1 Fuel Injectors	11-8-96		
	15-394B	Model RS-5 and RS-10 Fuel Injectors	9-1-69		
	15-468B	Model RSA-10DB1 and RSA-10ED1 Fuel Injectors	2-1-73		
	15-521B	Model RSA-7AA1 Fuel Injector	1-1-90		
	15-583	Model RSA-10DB2 Fuel Injector	2-15-73	1; 3-15-76	
	15-596A	Model RSA-7DA1 Operation and Service	10-15-76		

	<u>Form No.</u>	Description	Date	<u>Change; Date</u>
3.	<u>Training Aid</u>	<u>s</u> :		
	15-810B	Troubleshooting Techniques Precision Airmotive Fuel Metering System	1-1-90	
	15-812B	RSA Fuel Injection System Training Manual	1-1-90	
	15-816B	RS/RSA Memory Jogger	3-8-90	
	15-901C	Installation Troubleshooting Chart	4-30-02	

**<u>NOTE</u>:** All current manuals, Service Bulletins, and Service Information Letters are available in a full set; Form# 15-600.

### 4. <u>RS/RSA Service Bulletin Index</u>:

<u>No.</u>		Date	<u>Rev.</u>	Amend: Date	<u>Subject</u>
RS	62	4-15-81	2		RS-10 Series Mixture Control Shaft Modification (AD 81-03-05)
RS	72	11-15-80			RS-10ED1 New Ball valve and Seat
RS	76	12-15-86	1		RS Series Diaphragm Change to Flourosilicone
PRS	97	8-22-13	2		RS/RSA Overhaul Periods
PRS	98	11-18-91			Rubber Center Body Seals
PRS	99	2-1-10	1		Use of FAA/PMA Approved Replacement Parts in Precision Airmotive Fuel Injection Systems
PRS	100	6-7-93			Goode Engineering Diaphragm Recall.
PRS	101	7-19-93			Nozzle Assy Recall 2541946, 2524917-1, 2524923-1.
PRS	102	9-14-93			Unapproved Parts In RSA Fuel Injection Systems. (Consolidated)
PRS	103	5-12-98			RSA-10 Fuel Diaphragm Assy, P/N 2541803
PRS	104	1-31-00			Australian Av-Gas Contamination
PRS	105	11-12-04	1		Servo Metered Fuel Pressure Port Leakage
PRS	106	11-10-04	1		Servo Recall - P/N 2524273-12
PRS	107	7-16-08	4		Hex Plug 383493 Coming Loose from Regulator Cover
PRS	108	01-26-12			Improper Choice of Cleaning Fluids Can Damage Diaphragms, O-Rings, and Other Non-Metal Components
PRS	109	11-5-15	1		Idle Valve Thrust Washer Wear on Robinson R44 II Helicopters
PRS	110	11-18-24	4		Availability of Idle and Mixture Control Valve Kits for RSA-5 and RSA-10 Fuel Injection Servos

### 5. **RS/RSA BULLETIN APPLICATION LIST**

S.B. #					Γ	NJE	СТ	OR	MO	DE	L					SUBJECT
	R S	R S	R S	R S		R S A	R S A	R S A	R S A	R S A	R S A	R S A	R S A	R S A	R S A	
	1 0 B 1	1 0 E D 1	1 0 E D 2	1 0 F B 1		5 A B 1	5 A D 1	5 A D 2	7 A A 1	7 D A 1	1 0 A D 1	1 0 D B 1	1 0 D 8 2	1 0 E D 1	1 0 E D 2	
RS 62-1 RS 72 RS 76 PRS 97 PRS 98 PRS 99	X X X X	X X X X X	X X X X	X X X X		X X X	X X X	X X	X X X	X X	X X X	X X X	X X X	X X X	X X	Mix. cont. shaft mod. New ball valve Fluorosilicone diaph. RS/RSA Overhaul Periods Center Body Seals FAA/PMA Approved
PRS 100												X	X	X	x	Parts Goode Eng. Diaph recall
PRS 101		I	I	Ai	r Bleed	No	ı zzle	Sei	ies	I	I	I	I	I	l	Nozzle Assembly Recall
PRS 102 PRS 103						X	X				X	X	X	X	X	Recall Unauthorized Parts Fuel Diaphragm 2541803
PRS 104	X	X	X	Х		X	Х		X	X	X	X	X	X	Х	Av-Gas Contamination
PRS-105 PRS-106 PRS-107 PRS-108 PRS-109	X	x	x	X		X X X	X X X	X X	x	x	X X X X	X X X	X X X	X X X X	X X X	Fuel Port Leakage Recall 2524273-12 Hex Plug 383493 Cleaning Fluids R44 Idle Valve
PRS-110							Х				X			Х		New Valve Kits

### SD #

### INTECTOR MODEL

\* - Obsolete

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-	<u>No.</u>	Date	<u>Rev.</u>	Amend;Date	Subject
	16	9-15-87	2		RS and RSA Manual Mixture Control Leakage
	19	1-31-86	1		Material Change to Flourosilicone
	33	10-8-90			P/N 2524666 AMC New Flow Test Limits
	34	10-22-92			Unauthorized Parts In Fuel Injection Systems
	35	9-1-94	1	7-14-08	Alternate Flow Bench Test Fluid MIL-C-7024 Type II
	36	11-1-94	1	9-11-07	RSA-10ED1 Fuel Injection System P/L 2549038-3
	37	11-1-94			RSA-10DB1 Fuel Injection System P/L 2549056-2
	38	11-1-94	1	12-8-08	RSA-10AD1 Fuel Injection System P/L 2524175-11
	39	11-14-24	3		RSA-5AB1 Fuel Injection System P/L 2524858-5
	40	9-1-04	1		RSA-5 Fuel Injection Servo Installation in Updraft Configuration
	41	5-5-97			RSA-10DB1 Fuel Injection System P/L 2524275-16
	42	7-15-97			RSA-5AB1 Fuel Injection System P/L 2576507-1 thru -3
	45	9-14-99	2		Rework Instructions for RSA-5AD1 Fuel Injection Servo Installed on Slingsby T-3A Aircraft
	47	10-22-04	2		Service Information for RSA-10ED1; P/L 2576546-2
	55	1-20-00			Identification and Cure Dating of Rubber Products
	57	9-22-00			Discrepant 2541564 Mixture Control Valves
	58	12-8-00			Idle Speed Screw for RSA-7DA1; P/L 2524624
	59	8-15-01	2		2576540-4 and 2576540-5 Throttle Friction
	60	8-17-01			2576540-6 Servo - Boost Pump Pressure Interaction
	62	12-18-18	5		Overhaul Kits for RSA-5 and RSA-10 Fuel Injection Servos

### 6. <u>Small Reciprocating Engine - Service Information Letters</u>:

**NOTE:** All current Service Information Letters are available in a full set; Form# 15-SILSET.

6.	Small Reciprocating Engine - Service Information Letters: : (Continued							
<u>No.</u>	Date	Rev.	Amend;Date	Subject				
63	10-22-04	1		Service Information for RSA-10ED1; P/L 2576562-2				
64	3-20-02			Service Information for RSA-10ED1; P/L 2576554-2				
66	4-29-02			Optional Idle Valve for RSA-5AD1; P/L 2576596-2				
67	11-20-02			Idle Speed and Mixture Adjustments for RSA Fuel Injection Systems				
68	8-14-02			Availability of alternate RSA-5 Main Body and Regulator Cover				
69	11-21-02			Service Information for RSA-10AD1; P/L 2576566-1				
73	6-16-03			Shipping Caps, Plugs, O-Rings, for RS/RSA Components				
74	8-2-05	4	2-25-08	Service Information Letter for RSA-10AD1; P/L 2576630-4				
76	11-12-04			Service Information Letter for RSA-7DA1; P/L 2524624-7				
77	12-2-04			Service Information Letter for RSA-7DA1; P/L 2576514-1				
78	4-6-12	2		Service Information Letter for RSA-10DB1; P/L 2576542-1				
79	1-5-05			Service Information Letter for RSA-5AB1; P/L 2576628-1				
80	9-19-14	1		Service Information Letter for RSA-10 Servos				
81	8-2-05	2		Conversion Information for RSA-10AD1; P/L 2576630				
82	12-12-06			Cleaning of Contaminated Fuel Injection Systems				
83	12-12-06	1	10-16-17	Service Information Letter for RSA-10AD1; P/L 2524311-10				
84	11-27-07			Cold Weather Flow Divider Operation				
85	5-30-07			Regulator Spring Identification				
86	1-17-08			Service Information Letter for RSA-10ED1; P/L 2576562-4				
87	3-24-08	1	7-11-08	New Regulator Plug Gasket and increased torque for all RSA-5 and RSA-10 Fuel Injection Servos				

6. <u>Small Reciprocating Engine - Service Information Letters</u>: : (Continued

**NOTE:** All current Service Information Letters are available in a full set; Form# 15-SILSET.

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<u>No.</u>	Date	Rev	Amend;Date	<u>Subject</u>
88	6-16-08			Inspection of regulator Plug on RSA-5 and RSA-10 Fuel Injection Servos
89	2-2-09			Service Information Letter for RSA-10ED1; P/L 2576554-3
90	2-2-09			Revision to P/L 2524347
91	3-2-09	1	9-14-21	Service Information Letter for RSA-10AD1; P/L 2524163
92	11-5-08			Clarification of Idle Lever Stem Marking on Servo P/L 2524500-9
93	11-10-16	3		Service Information Letter for RSA-10ED1; P/L 2524273-12, 2524298-12, 2524420-11, 2524422-9, 2524491-9, 2524534-9, 2524556-9, 2524582-8, 2524859-3, 2576642-2
94	4-9-09			Service Information for RSA-10ED1; P/L 2549038-4
97	4-23-09			Service Information for RSA-10ED2; P/L 2524791-7
98	8-15-12			Service Information for RSA-5AB1; AMC Assy.
100	10-2-09			New Servo Stem Seal, P/N 2577245
101	11-12-13			Service Information for all RSA fuel servo's overhauled using brass mixture control valves
102	11-01-16			Availability of alternate RSA-7DA1 Enrichment Valve Diaphragm.
103	11-10-16			Service Information for RSA-5AD1; P/L-2576644-1
104	2-5-20			Service Information for RSA-5AD1; P/L-2576610-1

### 6. <u>Small Reciprocating Engine - Service Information Letters</u>: (Continued)

**NOTE:** All current Service Information Letters are available in a full set; Form# 15-SILSET.