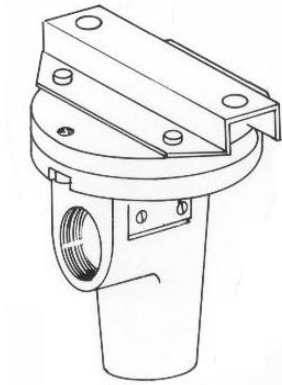


**SERVICE INFORMATION LETTER (SIL)**

**Overhaul Recommendations  
Carleton P/N 1552-002 Series  
Pressure Regulator**



**OXYGEN – ATA CHAPTER 38**

**CAGE CODE: 04577**

This Service Information Letter was released by Carleton Technologies Inc. to assist customers who have previously requested information on ways to reduce unscheduled removals while providing the ability to forecast repairs and related maintenance expenses.

The overhaul recommendations listed in this SIL are provided by Carleton Technologies Inc. in an effort to assist owners and operators of aircraft with 1552-002 Series Pressure Regulators installed.

**A. SUBJECT**

This SIL recommends an overhaul frequency for the 1552-002 Series Pressure Regulator and includes information about an overhaul kit available from Carleton Technologies Inc. The overhaul kit contains the minimum replacement parts Carleton typically recommends for replacement during overhaul.

Additionally, this SIL provides information about function testing requirements after an overhaul; however it does not supercede Test Fault Isolation procedures found in the appropriate Component Maintenance Manual (CMM). Refer to Section C of this SIL to determine the appropriate CMM for affected top assembly part numbers.

**B. APPLICABILITY**

This SIL is applicable to all aircraft where the 1552-002 Series Pressure Regulator is installed, especially certain series of 707, 727, 737, 757 and 777 model aircraft.

1552-002 Series Pressure Regulator part numbers affected by this SIL are:

1552-002-3	1552-002-7	1552-002-9
1552-002-13	1552-002-19	1552-002-21
1552-002-23	1552-002-25	1552-002-27

Rev: A  
Date: September 25, 2009

**C. REFERENCES**

Service and overhaul of a 1552-002 Series Pressure Regulator must be done in accordance with the most current revision of Carleton Technologies ATA Component Maintenance Manual 38-15-02. Refer to <http://resources.carltech.com> for the most up-to-date revision.

**D. RECOMMENDED ACTIONS**

1. **Overhaul Frequency** - Perform an overhaul every three years for the 1552-002 Series Pressure Regulator. An overhaul frequency less than 3 years may be necessary due to prolonged service, contamination or severe in-service conditions.
2. **Parts Replacement** – Use the correct overhaul kit listed in the table below. Overhaul Kit P/Ns B18800-3 and B18800-5 contain the minimum recommended replacement parts for an overhaul of the 1552-002 Series Pressure Regulator.

Carleton Top Assembly P/N	Applicable Overhaul Kit P/N
1552-002-3	B18800-3
1552-002-7	B18800-3
1552-002-9	B18800-3
1552-002-13	B18800-3
1552-002-19	B18800-3
1552-002-21	B18800-5
1552-002-23	B18800-3
1552-002-25	B18800-3
1552-002-27	B18800-5

Refer to Tables 1 and 2 in this SIL for a complete list of parts contained in the overhaul kits. Refer to the CMM for information about parts contained in the kit that may require replacement during overhaul or other maintenance operations.

3. **Functional Testing** – Functional Testing must be completed in accordance with the applicable CMM after an overhaul on the 1552-002 Series Pressure Regulator

**E. INSTRUCTIONS**

- Use the appropriate CMM and overhaul kit part number information contained in this SIL to do an overhaul of the 1552-002 Series Pressure Regulator.
- Any overhaul performed on this apparatus shall be done by those facilities experienced in, or by personnel knowledgeable in, pressurized gaseous aviation equipment. Contact Carleton Technologies for information regarding getting a regulator overhauled at Carleton’s facilities. See Section G for information on how to contact Carleton Technologies, Inc.

**TABLE 1**  
**PARTS CONTAINED IN OVERHAUL KIT B18800-3**  
 USE THIS KIT FOR OVERHAULING THE FOLLOWING TOP ASSEMBLY PART NUMBERS:  
 1552-002-3, 1552-002-7, 1552-002-9, 1552-002-13, 1552-002-19, 1552-002-23 AND 1552-002-25

IPL ITEM NUMBER	PART NUMBER	DESCRIPTION	QUANTITY
30	1002-0001-002	Lock Washer	6
70	1000-0015-010	O-ring	1
75	1000-0015-012	O-ring	1
5	1006-0012-017	Hex Nut	3
40	1552-501-002-1	Diaphragm / Seat Assembly	1
60	1552501000004-1	Orifice	1
25	1005-0009-024	Cap Screw	1
20	1005-0009-027	Cap Screw	2
15	1005-0009-031	Cap Screw	3
65A	1030-0013-0600 (Refer to Note 1)	Lock Plug	3
	B42256-1	Instruction Sheet	1

Note 1: Trim to fit this item at the time of use IAW Notes 5 and 6 of P/ N B42256-1 Instruction Sheet which is included in the overhaul kit.

**TABLE 2**  
**PARTS CONTAINED IN OVERHAUL KIT P/N B18800-5**  
 USE THIS KIT FOR OVERHAULING THE FOLLOWING TOP ASSEMBLY PART NUMBERS:  
 1552-002-21 AND 1552-002-27

IPL ITEM NUMBER	PART NUMBER	DESCRIPTION	QUANTITY
30	1002-0001-002	Lock Washer	6
70	1000-0015-010	O-ring	1
75	1000-0015-012	O-ring	1
5	1006-0012-017	Hex Nut	3
40	1552-501-002-1	Diaphragm / Seat Assembly	1
60A	1552501000004-3	Orifice	1
25	1005-0009-024	Cap Screw	1
20	1005-0009-027	Cap Screw	2
15	1005-0009-031	Cap Screw	3
65	1030-0013-0600 (Refer to Note 1)	Lock Plug	3
	B42256-1	Instruction Sheet	1

Note 1: Trim to fit this item at the time of use IAW Notes 5 and 6 of P/ N B42256-1 Instruction Sheet which is included in the overhaul kit.

**F. WARRANTY INFORMATION**

Carleton warranty remedies are not applicable to the subject(s) covered in this SIL.

**G. CONTACT CARLETON TECHNOLOGIES:**

To get a 1552-002 Pressure Regulator overhauled or to purchase overhaul kits or parts, contact Carleton at +1 (716) 662-0006 or [www.carltech.com](http://www.carltech.com).