



**AERO ACCESSORIES, INC.
SERVICE LETTER**

SERVICE LETTER NUMBER: SL-006

SUBJECT: Vacuum Manifold Manufacture Dates & Serviceability Guidelines

APPLICABILITY: Aero Accessories Vacuum Manifold Models AA1H5-25 & AA1H5-25A

Vacuum Manifolds manufactured by Aero Accessories, Inc. are serialized. This Service Letter ties the serial number to the date of manufacture. An **initial inspection to determine the date of manufacturer** must be accomplished within the first (100) hours of operation or twelve (12) months, whichever comes first. Aero Accessories, Inc. **New Vacuum Manifolds are to be inspected 5 years from date of manufacture, then every (12) months or annually. The manifolds are to be replaced/overhauled 10 years from date of manufacture.**



Model Number & Serial Number Location

| Manifold Model | Date of Manufacture | Serial Number | Manifold Model | Date of Manufacture | Serial Number | | |
|----------------|--|--|----------------|---|--|--|--|
| AA1H5-25 | 2003, April 2003, May 2003, July | H5-50000 thru H5-50055 H5-50056 thru H5-50119 H5-50120 thru H5-50189 | AA1H5-25A | 2007, January 2007, February 2007, March 2007, April 2007, May 2007, June 2007, August 2007, September 2007, November 2007, December | H5-51283 thru H5-51298 H5-51299 thru H5-51313 H5-51314 thru H5-51323 H5-51324 thru H5-51373 H5-51374 thru H5-51384 H5-51385 thru H5-51404 H5-51405 thru H5-51446 H5-51447 thru H5-51475 H5-51476 thru H5-51480 H5-51485 thru H5-51508 | | |
| AA1H5-25 | 2003, August 2003, September 2003, October 2003, November 2003, December | H5-50200 thru H5-50325 H5-50326 thru H5-50423 H5-50424 thru H5-50509 H5-50510 thru H5-50622 H5-50623 thru H5-50722 | | AA1H5-25A | 2008, January 2008, February 2008, March 2008, April 2008, May 2008, July 2008, August 2008, September 2008, October 2008, November 2008, December | H5-51509 thru H5-51510 H5-51511 thru H5-51571 H5-51572 thru H5-51577 H5-51578 thru H5-51587 H5-51588 thru H5-51599 H5-51600 thru H5-51619 H5-51620 thru H5-51629 H5-51630 thru H5-51647 H5-51648 thru H5-51676 H5-51677 thru H5-51696 H5-51697 thru H5-51706 | |
| AA1H5-25 | 2004, January 2004, February 2004, March 2004, April 2004, May 2004, August 2004, September 2004, October 2004, November | H5-50723 thru H5-50742 H5-50743 thru H5-50774 H5-50775 thru H5-50838 H5-50839 thru H5-50873 H5-50874 thru H5-50901 H5-50902 thru H5-50939 H5-50940 thru H5-51012 H5-51017 thru H5-51037 H5-51038 thru H5-51060 | | | AA1H5-25A | 2009, February 2009, March 2009, April 2009, May 2009, June | H5-51708 thru H5-51727 H5-51728 thru H5-51757 H5-51758 thru H5-51761 H5-51762 thru H5-51769 H5-51770 thru H5-51776 |
| AA1H5-25A | 2004, December 2005, February 2005, March 2005, July | H5-51061 thru H5-51076 H5-51077 thru H5-51130 H5-51032 thru H5-51157 H5-51158 thru H5-51170 | | | | 2006, January 2006, May 2006, July 2006, November | H5-51171 thru H5-51245 H5-51246 thru H5-51270 H5-51271 thru H5-51280 H5-51481 thru H5-51484 |

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SUBJECT: Vacuum Manifold Manufacture Dates & Serviceability Guidelines

APPLICABILITY: Aero Accessories Vacuum Manifold Models AA1H5-25 & AA1H5-25A

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| Manifold Model | Date of Manufacture | Serial Number |
|----------------|--|--|
| AA1H5-25A | 2009, July 2009, August 2009, September 2009, November | H5-51777 thru H5-51786 H5-51787 thru H5-51811 H5-51812 thru H5-51835 H5-51836 thru H5-51864 |
| AA1H5-25A | 2010, January 2010, April 2010, May 2010, July 2010, September | H5-51865 thru H5-51923 H5-51924 thru H5-51959 H5-51960 thru H5-51970 H5-51972 thru H5-52025 H5-52027 thru H5-52137 |
| AA1H5-25A | 2011, January 2011, February 2011, March | H5-52138 thru H5-52147 H5-52148 thru H5-52252 H5-52253 thru H5-52271 |
| AA1H5-25A | 2012, January | H5-52273 thru H5-52331 |
| | | |

WARNING: Failure of the pneumatic system may result in the loss of the pneumatic powered gyro flight instruments.

Maintenance personnel should familiarize themselves with the pneumatic system components and perform both visual and operational checks to identify any deterioration in the performance of these components.

MANDATORY REPLACEMENT INTERVALS

The vacuum manifold **MUST** be replaced / overhauled ten (10) years from date of manufacture.

Authorized technicians can inspect, test, and/or replace the vacuum manifold valve in accordance with the instructions provided in this document. Upon completion of the inspection, testing or replacement ensure an entry is made in the aircraft's logbook identifying compliance with this service letter SL-006.

The vacuum manifold must not be operated beyond the Airframe Manufacturer's specification for mandatory inspection intervals or mandatory replacement times or Aero Accessories, Inc. inspection intervals or mandatory replacement times, whichever comes first.

Compliance

An initial inspection to determine date of manufacture of the Aero Accessories Vacuum Manifold should be conducted within the next one hundred (100) hours of operation or (12) months, whichever comes first.

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SUBJECT: Vacuum Manifold Manufacture Dates & Serviceability Guidelines

APPLICABILITY: Aero Accessories Vacuum Manifold Models AA1H5-25 & AA1H5-25A

Vacuum Manifold Inspection / Testing Procedure:

AA1H5-25 & AA1H5-25A Vacuum System Check Valve Manifold

Description:

The AA1H5-25A vacuum check valve manifold depicted in Figure 1 & 2 provides a means of coupling dual pneumatic vacuum sources. More importantly, the AA1H5-25A vacuum check manifold provides a means of ISOLATING these dual vacuum sources in the event that one of the sources is not in operation.

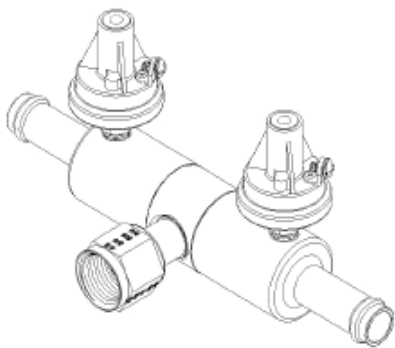


Figure 1

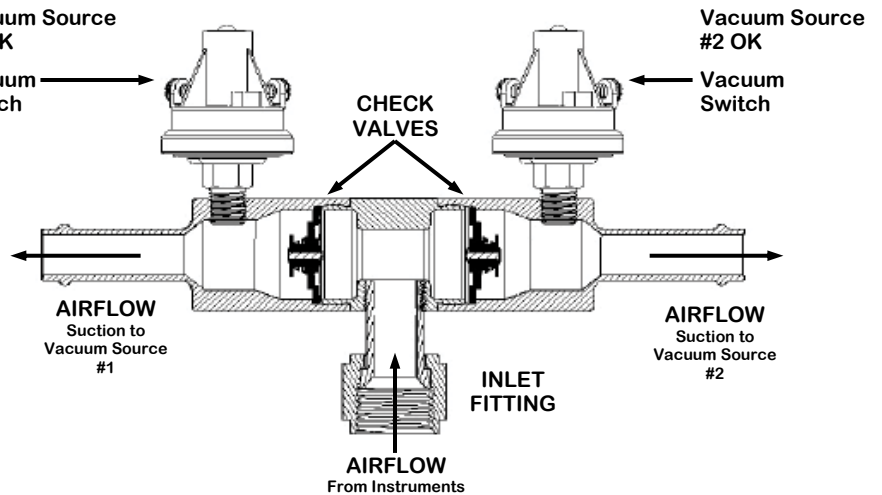


Figure 2

Operation:

The check valves Figure 3, are spring loaded in the closed position. As airflow (suction) is pulled through the manifold, the check valves open allowing airflow through the gyro flight instruments. If airflow through a check valve is stopped (i.e. vacuum source taken out of operation), the check valve for that side will close to isolate the non-operating side and allow the pneumatic system to properly function utilizing the other operating vacuum source.

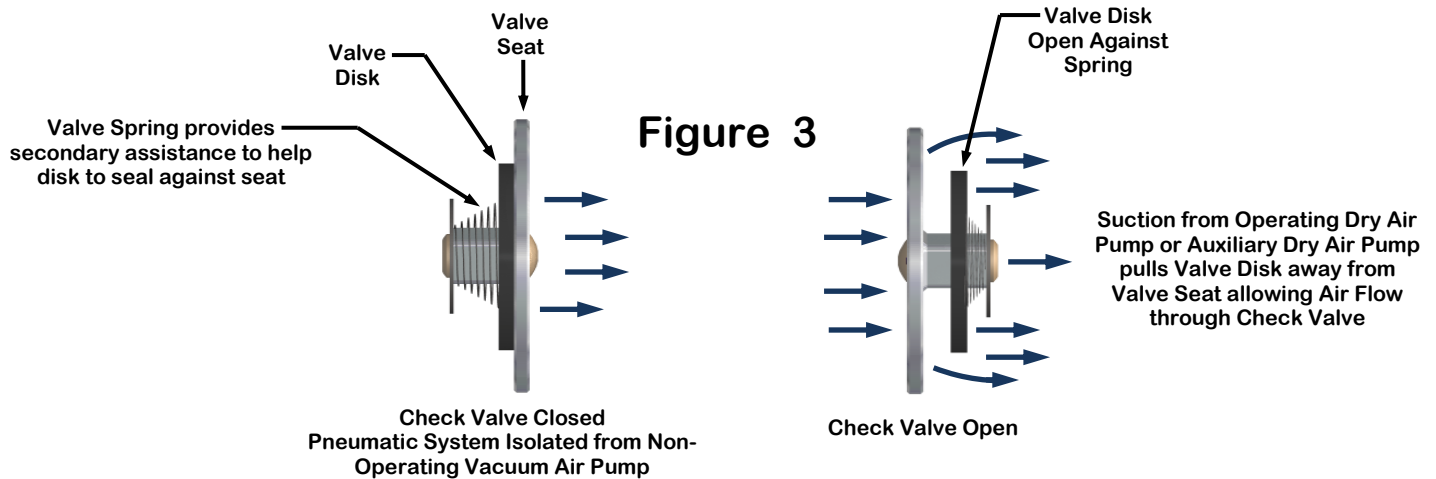


Figure 3

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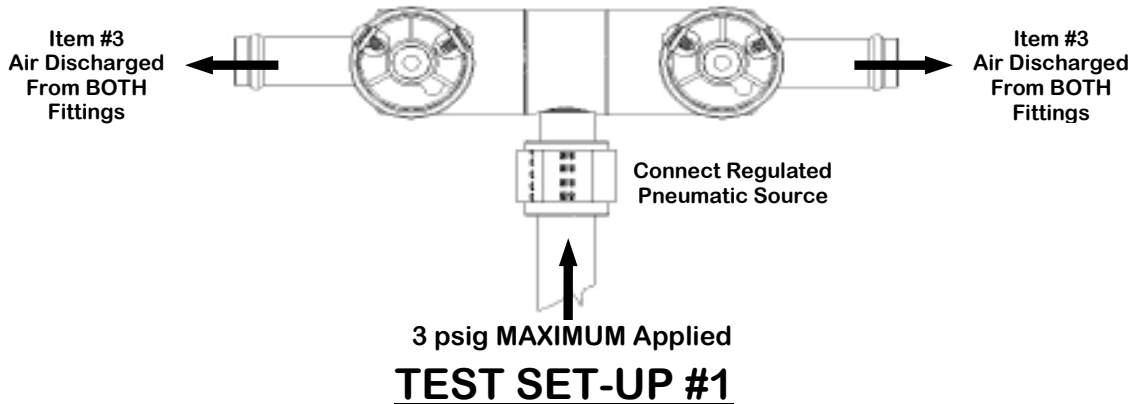
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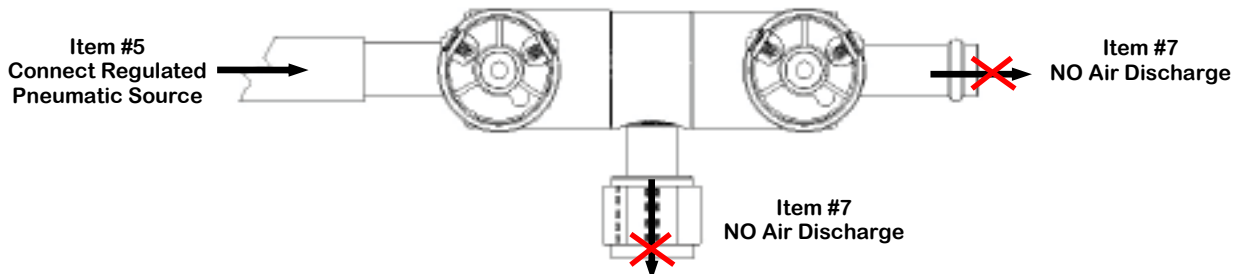
Verification of Serviceability:

AA1H5-25 & AA1H5-25A Vacuum System Check Valve Manifold

1. Remove the vacuum manifold assembly from the aircraft in accordance with the Airframe Manufacturer's instructions.
2. Connect a hose from a regulated air source to the vacuum manifold's inlet fitting.
(Reference Test Set-Up #1)



3. Slowly apply air pressure up to 3 PSIG maximum and verify that air is released through both discharge fittings, replace the vacuum manifold.
4. Disconnect the regulated air source from the inlet fitting.
5. Connect regulated air source to one of the discharge fittings. (Refer to Test Set-Up #2)



6. Slowly apply air pressure up to 3 PSIG maximum to the vacuum manifold and inspect for leaks at all hole connections. Correct any leaks before proceeding.
7. With the air pressure applied to the discharge fitting remaining at 3 PSIG, inspect for leaks across the internal check valve by noting any 'audible' leakage out of the inlet fitting or around the threads of the vacuum switch on the side the regulated air is supplied. Any 'audible' leakage at either one of these locations is cause for replacement of the vacuum manifold assembly.
8. Remove the regulated air source from the vacuum manifold's discharge fitting and connect it to the other discharge fitting and repeat Steps 6 & 7 to check the other side's check valve for leakage.
9. Remove the regulated air source from the vacuum manifold assembly. If the vacuum manifold assembly passes the leakage testing, reinstall in accordance with Air frame Manufacturer's instructions. Manifolds failing leakage testing are to be replaced. Upon completion of the leakage inspection, testing, or replacement, ensure an entry has been added to the aircraft's logbook identifying compliance with this Service Letter SL-006.

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