

**Service Letter No. LH3600-9A-1
Installation of the LH3600-9A-1S Retrofit Kit
Model GLH3000 and LH4000 Skis**



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LOG OF REVISIONS

Revision	Pages Affected	Description	FAA Approved	Date

Distribution of Changes

A current copy of this Service Letter will be available for download on the *Airglas, Inc. ®* web-site: <http://www.airglas.com/>.

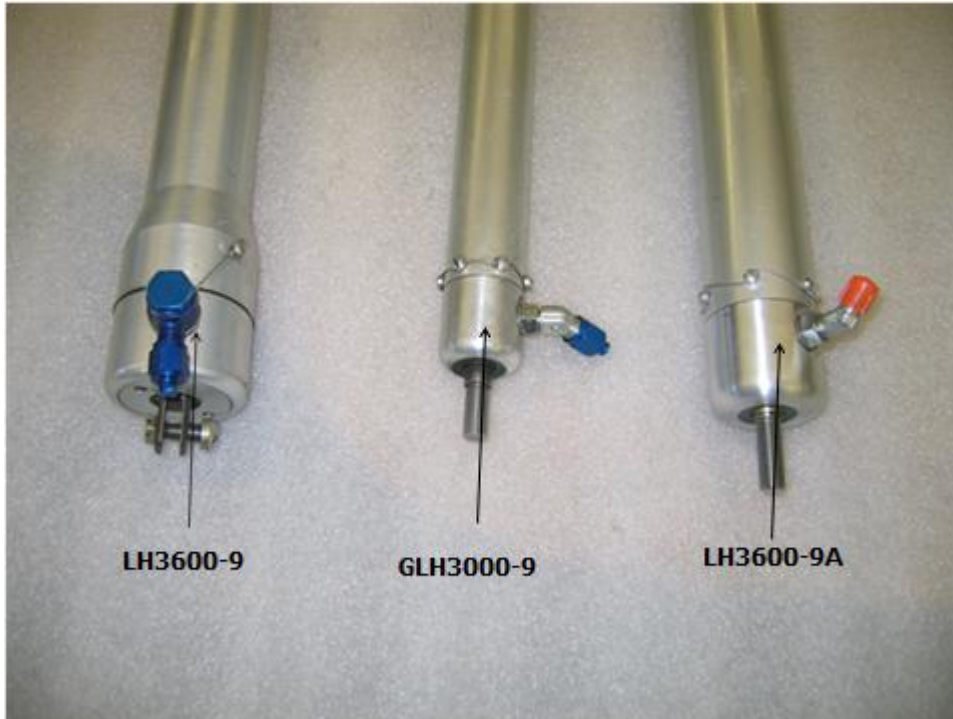
Note: Unless specified otherwise, all hardware in this kit shall be installed and torqued IAW AC 43.13-1B Chapter 7, Par 7-40, Table 7-1 and table 7-2.

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1.0 Description:

Airglas, Inc. has utilized two different hydraulic cylinders on its LH4000 skis and two different cylinders on its GLH3000 skis. Current production skis share the same LH3600-9A cylinder. To identify the cylinders refer to the photo below.



Left to right: LH3600-9, GLH3000-9, and LH3600-9A

This service letter only applies to the LH3600-9A cylinders.

Airglas, Inc. incorporated an improved design of the LH3600-9A hydraulic cylinder on production LH4000 and GLH3000 skis. This design change improves the retention of the end caps.

To incorporate this improvement on existing skis, Airglas has developed a field retrofit kit to incorporate this design. The kit can be installed without removing the skis from the aircraft.

The installation of the LH3600-9A-1S retrofit kit is optional and may be incorporated at the operator's discretion. No labor credit is provided. The installation of this kit is FAA Approved, and must be performed by an appropriately rated repairman.

2.0 Kit Contents:

Part Number	Description	Quantity Per Kit
AN503-8-6	Screw	16
AN380-2-2	Cotter pin	2

2.1 Required Manpower and Materials:

**PERSONNEL
REQUIRED:**

A&P MECHANIC

Approximately 3-4
hours labor will be
needed for installation

Tools Required:

- Basic hand tools
- #29 drill bit
- 8-32 tap
- Electric or air drill

Materials Required:

- Permatex® part number PX27183
- .032 Stainless steel safety wire
- Aluminum Cutting Fluid (Aluminum Tap Magic or equivalent)

3.0 Cylinder Removal:

Refer to drawing number LH3600-9A-1S for installation of the kit.

1. With the skis in the retracted position (wheels protruding), disconnect the hydraulic hoses at the cylinders. Cap the hoses and fittings using AN806-4 and AN929-4 fittings respectively. (have a rag handy to sop up spills)
2. Remove the AN380-2-2 cotter-pin, AN310-3 nut, AN4-25 bolt, and three AN960-414 washers at the front of the cylinder.
3. Remove the AN27-23 clevis bolt, AN960-716 washers and PA32-206L-5 (Modified) spacer from the rod end. Lift the cylinder clear of the ski.

4.0 Cylinder Alteration:

1. Remove the safety wire between the AN503-8-4 screws on each end of the cylinder.
2. Clean the cylinders with solvent and visually inspect the area around the existing AN503-8-4 screws for cracking. If cracks are found, contact Airglas, Inc. If no cracks are found, continue to step three.
3. Referencing drawing number LH3600-9A-1S, drill four (4) holes 1/2" deep with a #29 drill bit, between the upper and lower three existing fasteners.

4. Tap the four holes using an 8-32 tap.
5. Clean the holes of shavings and install four (4) AN503-8-6 screws in the newly tapped holes. Torque the screws to 10 lb. in. maximum.
6. Safety using .032" stainless steel safety wire.
7. Repeat above process with the other end of the cylinder.

5.0 Cylinder Installation:

1. Place the cylinder on the ski. Insert the cylinder into the LH3600-9A-6 mount bracket on the ski.
2. Install the AN4-25 bolt, AN310-3 nut, AN4-25 bolt, and three AN960-414 washers at the front of the cylinder. Adjust the nut to remove side to side play, but still allow the cylinder to rotate around the AN4-25 bolt.
3. Install a new AN380-2-2 cotter-pin.
4. Install the AN27-23 clevis bolt, AN960-716 washers and PA32-206L-5 Modified spacer in the rod end.
5. Apply Permatex® part number PX27183 (or equivalent) to the AN27-23 screw and install the assembly on the GLH3000-9-8 attach block on the door.
6. Torque the AN27-23 screw to 180 lb. in.
7. Remove the caps and plugs from the hoses and the fitting. Install the hoses and tighten to 50-65 in. lb.
8. Cycle the skis and confirm no leaks from the cylinders or hoses.
9. With the skis fully deployed (tire retracted), confirm that there is approximately 1/16" to 1/8" clearance between the aft end of the door and the lip at the back of the tire opening.

6.0 Aircraft Records:

Make an entry in the aircraft permanent records stating that Service Letter LH3600-9A-1 has been complied with by installation of additional AN503-8-6 screws.

-END-