Service Letter No. LW3600-1 Model LW3600 Skis Fixed Tail Wheel Conversion



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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 on the *Airglas, Inc.* ® web-site available for download.

Note: All hardware in this kit shall be installed and torqued IAW AC 43.13-1B Chapter 7, Par 7-40, Table7-1 and table 7-2.

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1.0 Description:

Airglas, Inc. has incorporated an improved design of tail wheel mount on production LW3600 skis. This improved design reduces the installed weight and reduces the drag when operated from snow.

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 LW3600 Fixed Tail Wheel Kit is optional and may be incorporated at the operator's discretion. No labor or parts credit is provided. The installation of this kit is FAA Approved, and must be performed by an appropriately rated repairman.

Part Number	Description	Quantity per Ski	
LW3600-FTW-1	Conversion Plate	1	
L20500-18-1	Tail wheel attach bracket (left)	1	
L20500-18-2	Tail wheel attach bracket (right)	1	
TWNP-66	Wheel assembly	1	
AN8-32	Axle Bolt	1	
AN310-8	Axle Nut	1	
NAS75-08-012	Spacer	2	
NAS1149F0863P	Washer	2	
AN380-3-2	Cotter pin	1	
AN4-7A	Bolt	4	
2931	Washer (1/4 X 1 18-8SS) BOLT DEPOT.COM	4	
MS21044N4	Nut	4	
MS24694S58*	Screws	13	
AN970-3	Washer	13	
A3235-028-24A	Washer	13	
PA32-206L-5	Spacer	3	
AN363-616	Nut	3	

2.0 Kit Contents:

*Due to production year variances substitute longer or shorter screws for appropriate grip length.

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3.0 Installation:

Refer to drawing number LW3600-FTW for installation of the kit.

- 1. If the skis are installed on the aircraft, place a two foot long 4x4 timber under the ski centered midway between the main landing gear axle and the tail wheel cutout. Add additional 2x4's until the tail wheel of the ski is clear of the ground.
- 2. Remove the tail wheel springs from the forward attach point by loosening the nuts. Leave the mushroom shaped bolts (EB-616-21)in place. Discard the tail wheel and spring (retain the two L44000-11-10 straps).
- 3. Install a PA32-206L-5 aluminum spacer over each of the three mushroom shaped bolts (EB-616-21). Place the rear check cable rigging tab over the forward of the three and secure with a new AN363-616 nut. Install the L44000-11-10 tabs (retained) using new AN363-616 nuts on the aft two bolts. Torque bolts to 160 to 185 in. lb. (use additional NAS1149F0663P washers as required)
- 4. Place the LW3600-18-FTW-1 tail wheel retrofit assembly in the tail wheel cutout.
- 5. Align the tail wheel with the ski centerline, and clamp in place. Confirm alignment.
- 6. Using the thirteen holes in the LW3600-18-FTW-1 as guides, drill thirteen 3/16" diameter holes thru the ski.
- 7. Countersink the holes on the bottom side of the ski (100° countersink).
- 8. Insert the thirteen MS24694S58 screws in place with an A3475-028-24A countersunk large area washer under each head. Install a 2931 washer and MS21044N3 nut on each screw and tighten to 20 to 25 in. lbs. (Due to production year variances longer or shorter screws may be required for appropriate grip length.)
- 9. Revise aircraft weight and balance to reflect new ski weight.
- 10. Make the following entry into aircraft records: Airglas, Inc. Service Letter # LW3600-1 incorporated on Airglas, Inc. LW3600 skis serial numbers (insert serial numbers). Aircraft weight and balance revised. (signature and number of authorized repairman)

4.0 Weight and Balance

The net weight change produced by the installation of the *Airglas, Inc.* [®] part number LW3600-FTW kit is as follows:

Kit Installation Arm	Kit Installation Weight (Net)
+36.65" AFT of Ski Axle Centerline	- 4.25 lbs.

5.0 Servicing

The LW3600- FTW-1 inserts themselves are virtually maintenance free and are molded of Fiber Glass. Waxing the ski bottoms for decreased friction and improved glide is recommended, especially in wet snow.

The tail wheel brackets (L20500-18-1 and -2) are made of stainless steel with a 6" aluminum wheel with a solid urethane tire. When the tire has worn to less than 5/16" of rubber, the wheel should be replaced. Refer to drawing number LW3600-FTW for assembly of the tail wheel.

The bearings are sealed and require no servicing.

<u>END</u>