# SERVICE BULLETIN

NO. ARC-SB-852-010

#### **Aircraft Restoration Corporation**

**Revision: B** 

Date: 6 February 2019

#### Subject:

Installation of a spacer in each of the Main Landing Gear Retraction Actuators.

#### **Effectivity:**

Piper Model PA-31, PA-31-300, PA-31-325, PA-31-350, PA-31P, PA-31T, PA-31T1, PA-31T2, PA-42, and PA-42-720 airplanes as applicable where STC SA00555DE has been installed.

#### **Compliance:**

MANDATORY at next scheduled maintenance.

#### Purpose:

Field reports indicate there have been some difficulty in the final rigging of the Main Landing Gear retraction system after this STC has been installed. Installation of new spacer stops will correct this difficulty. Shortening the stroke by installing the spacer enables the gear to reach its up-limit more effectively when the landing gear contacts the newly installed bumper stop as the up-lock roller engages the up-lock hook.

#### **Material:**

2 ea. P/N: 85280128-01, Spacer for each Ozone actuator. 2 ea. P/N: 85280128-02, Spacer for each Wiebel actuator.

## Instructions/Summary/Comments:

With the airplane on jacks, remove both MLG retraction actuator assembles. Cap the hydraulic hoses to reduce hydraulic fluid loss.

# ARC

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Remove end caps, install the new spacer (P/N: 85280128-01 for Ozone or 85280128-02 for Wiebel) on the ram shafts in accordance with drawings 85280605-01, Actuator MLG Modification (Ozone), and 85280605-02, Actuator MLG Modification (Wiebel) (copy attached). Reassemble actuators and reinstall them in their original locations. Rig the MLG in accordance with the Piper Service Manual Instructions, Section VII, "Landing Gear and Brake System".

Complete a log book entry showing compliance with this Service Bulletin.

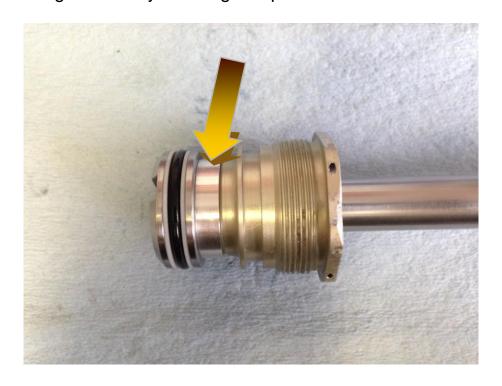


Figure 1, Spacer installed against piston and end cap. Spacer step away from piston.

<u>Note:</u> On Wiebel actuators, ensure the spacer small diameter extension step fits inside of the End Cap Gland Nut cavity. On some early model end caps, Wiebel vendors did not machine the cavity in their final manufacturing process. The end cap cavity should measure .75 diameter and .40 deep minimum to accept the spacer step as shown in Drawing 85280605-02.

