



2141 ICON Way, Vacaville, CA 95688 - Tel: 707.564.4000 – www.iconaircraft.com

<h1 style="margin: 0;">SERVICE BULLETIN</h1> <h2 style="margin: 0;">SB-112222-A</h2>
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ID NUMBER & REVISION: SB-112222-A
SUBJECT: Flap Gast Strut
RELEASE DATE: 10 February 2023
EFFECTIVE DATE: 10 February 2023
SUPERSEDES NOTICE: N/A
AIRCRAFT AFFECTED: **MAKE & MODEL:** ICON A5
SERIAL NUMBERS: 00001, 00003 – 00136, 00138 – 00146, 00148 –
00150, 00152 – 00159, 00161, 00163, 00166, 00170,
00172 – 00174, 00176, 00177
REQUIRED ACTION: Inspect the flap gas strut for proper installation of the ball socket and rod
end.
TIME OF COMPLIANCE: At the next service interval.
REVISION HISTORY: A Initial Release

LEVEL OF CERTIFICATION
REQUIRED (any level checked can perform task):

<input type="checkbox"/> Pilot/Owner	<input checked="" type="checkbox"/> A & P
<input type="checkbox"/> LSA Repairman – Inspection	<input checked="" type="checkbox"/> Certified Repair Station
<input checked="" type="checkbox"/> LSA Repairman – Maintenance	<input checked="" type="checkbox"/> Manufacturer

PURPOSE:

It was recently discovered that the ball socket (installed on the gas strut shaft) and the rod end (installed on the gas strut body) did not have the proper thread adhesion applied. In addition, some flap gas struts did not have the ball socket and rod end installed on the correct end of the gas strut. Failure to install the ball socket or rod end on the correct gas strut end and/or correctly apply thread adhesion could result in the flap gas strut to loosen. This Service Bulletin provides the inspection and repair instructions to address this issue.

ASSEMBLIES AND PARTS:

PART NUMBER	DESCRIPTION	QUANTITY	ALTERNATE	
			PART NUMBER	DESCRIPTION
LOCTITE 263	Threadlocker, Red	As Needed		
TT-I-735A	Isopropyl Alcohol	As Needed	Or Equivalent	

IF APPLICABLE, SERVICE KITS:

KIT NUMBER	CONTENT PARTS	DESCRIPTION	QUANTITY

INSTRUCTIONS:

1. Remove the Flap Gas Strut per the online [ICON Maintenance Manual](#)
 - a. Remove Flap Gas Strut ([100503](#))

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2. Locate the piston rod end with the ball socket attached.
 - a. See Figure 1

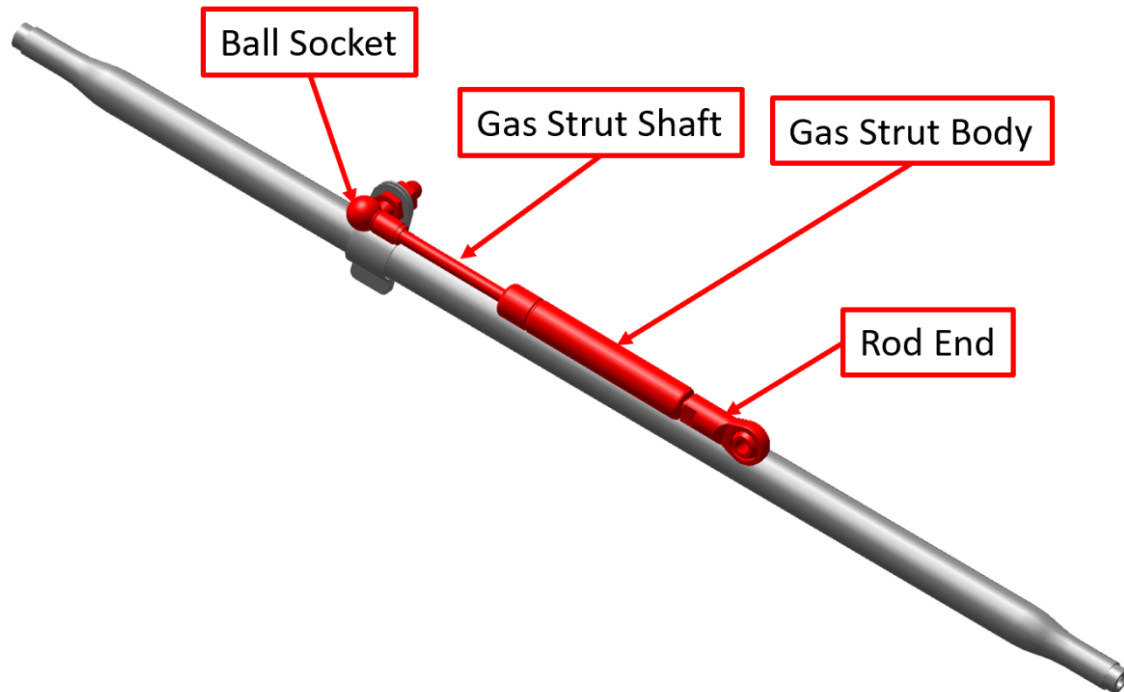


Figure 1 Flap Gas Strut

3. Attempt to rotate the ball socket relative to the gas strut shaft.
4. If the ball socket easily rotates and/or the threads have lost adhesion, remove the ball socket completely from the rod end.
 - a. See Figure 2 for poor Loctite application.
5. Attempt to rotate the gas strut body relative to the rod end.
6. If the gas strut body easily rotates and/or the threads have lost adhesion, remove the rod end from the gas strut body.
 - a. See Figure 2 for poor Loctite application.

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Figure 2 Poor Loctite Application

7. Thoroughly clean the affected ball socket and/or rod end threads as well as the gas strut threads with isopropyl alcohol.
8. Apply Loctite 263 liberally to affected threads.
9. If ball socket end is affected, grasp gas strut body and hand tighten ball socket onto gas strut shaft until gas strut shaft rotates relative to the gas strut body.
10. If rod end is affected, grasp ball socket end and hand tighten rod end onto the gas strut body until gas strut body rotates relative to the ball socket.
11. Hand-tighten affected end of strut until the gas strut rotates.
12. Clean up excess Loctite.
13. Allow Loctite 263 to cure in accordance with manufacturer's instructions.
14. Install the Flap Gas Strut per the online [ICON Maintenance Manual](#)
 - a. Remove Flap Gas Strut ([100205](#))



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Make the following logbook entry:

"I hereby certify the inspection and repair has been completed in accordance with Service Bulletin (SB-112222-A, Flap Gas Strut) and all the referenced documents. Potentially unclear procedures have been clarified with ICON Aircraft. (ref. FAA Exemption 10829B)".

Repair Information:

ICON anticipates the repair time to comply with this Service Bulletin (SB-112222-A, Flap Gas Strut) to be 1.0 to 1.5 hours per wing.

If you have questions, comments, or concerns about this Service Bulletin and/or if you are no longer owner/operator of this aircraft, please forward this information to the present owner/operator and notify ICON Aircraft at:

ICON Aircraft
2141 ICON Way, Suite 100
Vacaville, CA 95688
(855) FLY-ICON or (707) 564-4000
support@iconaircraft.com

Please include the aircraft registration number, serial number, your name, and if known the contact information of the new owner/operator.