



2141 ICON Way, Suite 100, Vacaville, CA 95688 - Tel: 707.564.4000 – www.iconaircraft.com

SAFETY DIRECTIVE/ALERT

SD-071323-A

ID NUMBER & REVISION: SD-071323-A
SUBJECT: Flap Hardware Wing Damage
RELEASE DATE: 16 August 2023
EFFECTIVE DATE: 16 August 2023
SUPERSEDES NOTICE: N/A
AIRCRAFT AFFECTED: **MAKE & MODEL:** ICON A5
SERIAL NUMBERS: 00184, 00186, 00187
REQUIRED ACTION: Internally and externally inspect the left and right wings for wing skin damage caused by the left-hand and right-hand flap brackets.
TIME OF COMPLIANCE: Before the next flight. The owner/operator may fly up to 15 hours to relocate the aircraft for repairs if outer wing inspection below is performed and there are no findings.
REVISION HISTORY: A Initial Release

LEVEL OF CERTIFICATION ☐ Pilot/Owner ☒ A & P
REQUIRED (any level checked ☐ LSA Repairman – Inspection ☒ Certified Repair Station
can perform task): ☒ LSA Repairman – Maintenance ☒ Manufacturer

PURPOSE:

It has been discovered that there is a potential for wing skin damage of the left and right wings. Damage can occur from the flap nut plate bolt as it extends beyond the nut plate. The extension could be of a length that contacts the inner carbon fiber wing skin and core during flap operations. This damage could affect the left wing, right wing, or both.

ASSEMBLIES AND PARTS:

PART NUMBER	DESCRIPTION	QUANTITY	ALTERNATE	
			PART NUMBER	DESCRIPTION
N/A	N/A	N/A	N/A	N/A

IF APPLICABLE, SERVICE KITS:

KIT NUMBER	CONTENT PARTS	DESCRIPTION	QUANTITY
N/A	N/A	N/A	N/A

INSTRUCTIONS:

It is permissible to disassemble the aircraft as required to permit accessibility, inspection, adjustment, maintenance, and repair in accordance with the latest release of the online ICON Aircraft Maintenance Manual; ICA000833

Inspection – Outer Wing Skins

1. Inspect the top of the left and right wings for any bulges.



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- a. See Figure 1 for dimensions.
- b. For the left wing, the bulge may be around the “5” of the “ICON A5” decal.
- c. For the right wing, the bulge may be in the same location as described for the left wing (step 1a).
- d. It is possible to “feel” the bulge at the above locations.
2. If there is a bulge, the aircraft will need to be grounded.
 - a. Do not perform further flight operations until a repair can be made.
3. If there is no bulge, the aircraft may be flown up to 15 hours to relocate the aircraft for repairs.

Inspection – Inner Wing Skins

1. Fold the left and right wing in accordance with the wing folding procedures in the online ICON Aircraft Maintenance Manual ([ICA000833](#)).
 - a. ICON Aircraft Maintenance Manual: [100629](#)
2. Remove the large Aileron Access panels on the left and right wing.
 - a. ICON Aircraft Maintenance Manual: [100223](#)
3. Locate the flap bracket, which is mounted on the wing spar.
 - a. The flap bracket has the push pull tube for the flap system.
4. Identify the hardware flap bracket.
 - a. The flap bracket has three bolts, one for the bell crank, and two stops.
 - b. The flap stop nearest the wing spar is the affected bolt.
 - c. See Figure 2
5. With a Borescope and a flashlight, you should be able to see the hardware crashing against the upper wing skin.
 - a. *You may be able to use a mirror, but it is more difficult to judge if there is any space.*
 - b. See Figures 3 and 4.



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Figure 1 Location of Bulge



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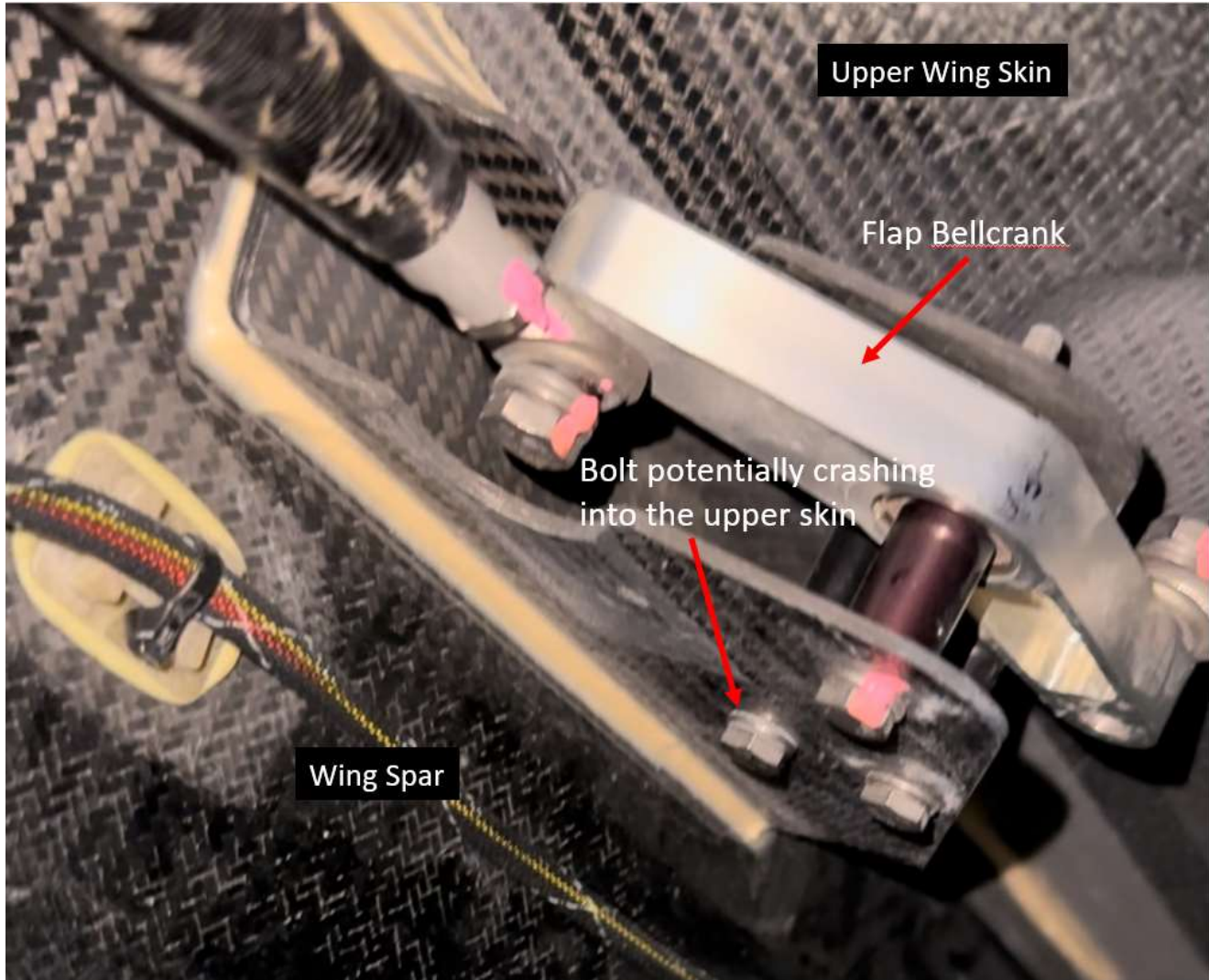


Figure 2 Flap Bracket and Bell Crank Location



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Figure 3 Flap Bracket Bolts



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Figure 4 Flap Bracket Bolt Crashing Into Wing Skin

If there is no damage to either the outer or inner wing skins, the inspection is complete, and this safety directive has been satisfied.

If there is damage to the outer, inner, or both wing skins, proceed to the “Repair” instructions of this Safety Directive.

Repair

1. Contact ICON Aircraft Customer support for repair instructions.



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Logbook Entry:

It is permissible to reassemble the aircraft, as required pursuant to maintenance and repair, in accordance with the latest release of the ICON Aircraft [Maintenance Manual](#), ICA000833.

“I hereby certify the inspection and/or repair has been completed in accordance with Safety Directive (SD-071323-A, Flap Hardware Wing Damage) and all referenced documents. Potentially unclear procedures have been clarified with ICON Aircraft. (ref. FAA Exemption 10829C)”.

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.