



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

SERVICE BULLETIN

SB-092917

DATE ISSUED: 9/29/2017
DATE EFFECTIVE: 10/2/2017
SUPERSEDES NOTICE: None
SUBJECT: Forward Roll Pulley Bracket stud inspection
AIRCRAFT AFFECTED: **MODEL:** ICON A5
S/N: ALL

REQUIRED ACTION: 1) Inspection of forward roll pulley brackets for presence of retention studs and for improper clamping of the bracket to the fuselage skin.

TIME OF COMPLIANCE: 1) Initial inspection - Prior to next flight
2) Secondary inspection (after the initial inspection) –
a. Daily - if the aircraft has been exposed to salt or brackish water environments at any time during its life.
b. Every two weeks (or next flight if beyond two weeks) if the aircraft has only been used in fresh water, or land based environments.

PURPOSE:

ICON is committed to designing, manufacturing, delivering, and supporting a high quality Light Sport Aircraft, providing a level of safety well beyond expectations. During routine maintenance of the aircraft, it was discovered that the left side forward roll pulley bracket forward mounting stud had failed and was no longer clamping that side of the bracket to the fuselage. The aft stud remained intact and held the bracket in place. An extensive investigation was completed on the design. The failure mode was determined to be combination of corrosion of the stud material combined with and incorrect installation of the bracket in the aircraft. Although there has been only one instance of this condition to date, ICON Aircraft is currently designing and testing a solution to correct the issue. Until that solution becomes available ICON Aircraft is requiring an initial and recurring inspection of the studs for security. Notice of solution availability and corrective action will be by supersession of this bulletin.

WARRANTY:

ICON Certified Service Providers: Please submit an invoice for warranty reimbursement of 0.7 hours labor on completion of the initial Inspection. Please reference service bulletin number SB-092917.

PARTS LIST:

N/A

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Initial Inspection:

1. Un-Fold the wings (this is required to complete step 4).
2. Remove both cup holders from the main cockpit sidewall panel (Figures 1 and 2).
3. Using a mechanics mirror and flashlight check that both fore and aft retention studs are present with a nut sufficient number of washers (at least one washer present) or carbon shim or aluminum shim present to allow clamping of the bracket to the fuselage skin (figures 3-5). All configurations shown are acceptable if the bracket is clamped to the fuselage skin.
4. Standing outside of the aircraft push the control stick toward the center console past the primary control stop to de-tension lower roll cable enough to offload the bracket. (figure 6)
5. While conducting step 4, use hand pulling forces to pull on the bracket in the same plane as the cable and long side of the bracket in an outward motion from the fuselage skin (figure 7):
 - a. If the bracket base lifts off the surface of the skin or is loose in anyway discontinue operation of the aircraft and contact ICON Customer Support for further instruction.
 - b. If the bracket is secure, the cup holder can be reinstalled.
6. Repeat steps 3-5 for opposite side.



Figure 1: Compress cup holder walls, and lift cup holder out of the main cockpit side panel.



Figure 2: With Cup holder removed the forward roll pulley bracket is visible.

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Figure 3: Roll Pulley Bracket Stud with aluminum shim block, and nut. (S/N 00001-00003)



Figure 4: Roll Pulley Bracket Stud with nut and washers only. (S/N 00004-00012)



Figure 5: Roll Pulley Bracket Stud with carbon shim, washer and retaining nut. S/N 00013-current)



Figure 6: Push stick toward the center console and past the primary lateral stop to slacken the roll cable.

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Figure 7: Pull on the bracket away from the fuse skin wall once the cable is slacked to determine that studs clamp the bracket to the wall.

Secondary Inspection:

1. Remove both cup holders from the main cockpit sidewall panel.
2. Reach into the cup holder hole, using one finger feel on the forward and aft side of the forward roll pulley brackets for the presence of both fore and aft roll pulley bracket studs. (figure 8)
 - a. If one of the studs is loose or missing discontinue operation of the aircraft and contact ICON aircraft for further instruction.
 - b. If present and secure re-install the cup holder.
3. Repeat steps 1 and 2 for opposite side.

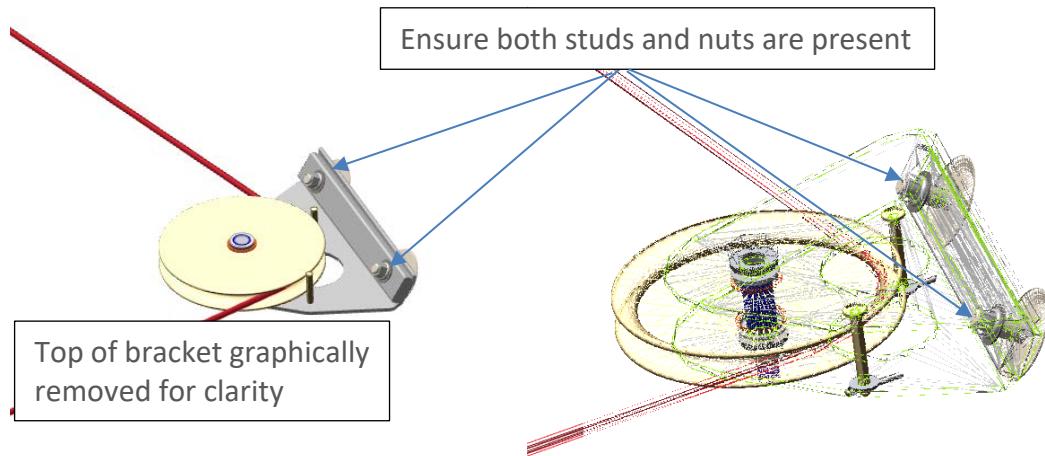


Figure 8: Forward Roll Pulley Bracket Studs.



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Task Specific Training:

- 1) The initial inspections are to be performed by an ICON Aircraft, Inc. trained mechanic with an A&P or LSA-RM I&R Certificate.
- 2) If desired, aircraft operator can perform the secondary inspection only.

MAKE THE FOLLOWING LOGBOOK ENTRY:

“Service Bulletin (insert subject bulletin number) has been complied with and initial inspection reported to ICON Aircraft Customer Support and Service”.

If you need assistance relocating your A5 to your home base or temporary storage arrangements, please contact ICON Aircraft and ask for Customer Service and Support.

If you are no longer in possession of this aircraft, please forward this information to the present owner/operator and notify ICON Aircraft, Owners Center at:

ICON Aircraft
2141 ICON Way
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.



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SERVICE BULLETIN APPROVAL

A handwritten signature in black ink, appearing to read 'Bret Davenport'.

Bret Davenport

Flight Sciences Manager

9/29/2017

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