



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

SERVICE BULLETIN

SB-062322 REV A

DATE ISSUED: 06/23/2022
DATE EFFECTIVE: 06/23/2022
SUBJECT: Air Rudder Hinge Pin Under Torque
AIRCRAFT AFFECTED: **MODEL:** A5
S/N: 00001 – 00137, 00139, 00141 – 00146, 00148 – 00149, 00151, and 00153

REQUIRED ACTION: Inspect the air rudder upper hinge pin for proper torque. The torque shall be between 48.7 in-lbs and 58.7 in-lbs.

TIME OF COMPLIANCE: Immediate. The action needs to occur prior to the next flight and whenever there is forward/aft and/or side-to-side play in the air rudder during preflight. This action also needs to occur if there is suspect of degraded air rudder effectiveness during normal flight operations.

PURPOSE

ICON Aircraft has identified that the air rudder upper hinge pin may have been under torqued during manufacturing. Torque values below 48.7 in-lbs may cause loss of rudder effectivity during normal flight operations. However, loss of the air rudder control surface during flight is unlikely due to the locking nature of the hinge pin and nut plate. In addition, the presence of the lower hinge pin and control cable attachment should prevent separation under normal flight conditions.

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

- | | |
|---|--|
| <input type="checkbox"/> Pilot/Owner | <input checked="" type="checkbox"/> Certified Repair Station |
| <input type="checkbox"/> LSA Repairman—Inspection | <input checked="" type="checkbox"/> Manufacturer |
| <input checked="" type="checkbox"/> LSA Repairman—Maintenance | <input type="checkbox"/> Named Individual |
| <input checked="" type="checkbox"/> A&P | |

SPECIAL TOOLS:

1. Torque wrench capable of 48.7 in-lbs to 58.7 in-lbs
2. 1/2" Torque Adapter (Dogbone)
3. It is permissible to create and use tools and fixtures as required to properly carry out the instructions presented within this document so long as they do not cause any damage to the aircraft or create any deviation of the aircraft from its intended design.

INSTRUCTIONS

NOTE: It is permissible to disassemble and reassemble the aircraft as required to permit accessibility, inspection, adjustment, maintenance, and repair in accordance with the latest release of the Aircraft Maintenance Manual, ICA000833.

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PART A – INSPECTION

1. Remove Air Rudder in accordance with the latest release of the Aircraft Maintenance Manual, ICA000833.

NOTE: Retain Air Rudder and Hardware for reinstallation

2. Inspect the upper air rudder hinge pin for a torque setting between 48.7 in-lbs and 58.7 in-lbs by starting with torque wrench at 48.7 in-lbs and verifying the air rudder hinge pin does not rotate.
 - a. If the torque is between 48.7 in-lbs and 58.7 in-lbs, proceed with steps 2.b and 2.c.
 - b. Install the Air Rudder in accordance with the latest release of the Aircraft Maintenance Manual, ICA000833.
 - c. Create a logbook entry in the airframe logbook (see “Logbook Entry B” below).
3. If the torque is not between 48.7 in-lbs and 58.7 in-lbs, proceed with the following corrective actions.

PART B – CORRECTIVE ACTION

1. Set torque to 58 in-lbs and torque the air rudder hinge pin. Apply torque stripe so it will be visible when air rudder is reinstalled.
2. Install Air Rudder in accordance with the latest release of the Aircraft Maintenance Manual, ICA000833.
3. Create a logbook entry in the airframe logbook (see “Logbook Entry A” below).

REFERENCE FIGURE OF THE UPPER AIR RUDDER HINGE PIN

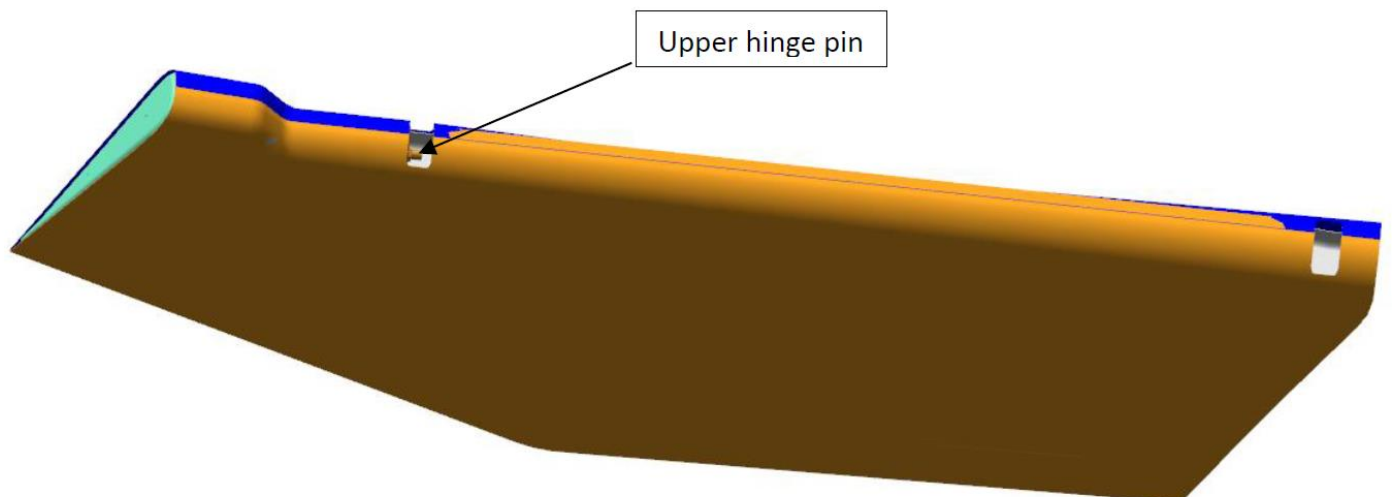


Figure 1 Upper Air Rudder Hinge Pin



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Certificate Holder’s Information

Name:	
Address:	
Certificate Type & Number:	
Date:	
Signature:	

Parts, Consumables, and bulk materials list:

P/N	Description	Qty
N/A	Tef-Gel® As needed for Bolts	N/A

WARRANTY

ICON Certified Service Providers: Please submit an invoice for warranty reimbursement for labor on completion of Service Bulletin number SB-062322-A. Estimate of labor requirements is no more than two (2) man-hours.

LOGBOOK ENTRY A

If the upper air rudder hinge pin torque was adjusted, make the following logbook entry:

“The corrective action of Safety Bulletin SB-062322 REV A has been complied with and reported to ICON Aircraft Service. The upper air rudder hinge pin torque value upon inspection was _____ and the torque value after adjustment is _____ (ref. FAA Exemption 10829B).”

LOGBOOK ENTRY B

If the torque was found to be within 48.7 in-lbs and 58.7 in-lbs and no adjustment was made:

“The corrective action of Safety Bulletin SB-062322 REV A has been complied with. It was determined that the upper air rudder hinge pin torque value is within 48.7 in-lbs and 58.7 in-lbs. The current torque value is _____ (ref. FAA Exemption 10829B).”



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If you have questions, comments, or concerns about this Safety Directive/Alert 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, Ste 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.