



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

SERVICE BULLETIN

SB-062322-B

ID NUMBER & REVISION: SB-062322-B
SUBJECT: Air Rudder Hinge Pin
RELEASE DATE: 20 April 2023
EFFECTIVE DATE: 20 April 2023
SUPERSEDES NOTICE: SB-062322-A
AIRCRAFT AFFECTED: **MAKE & MODEL:** A5
SERIAL NUMBERS: 00001 – 00137, 00139, 00141 – 00146, 00148 – 00149, 00151, 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.

REVISION HISTORY:

A Initial Release

B

- Updated Service Bulletin format to align with current accepted practices.
- In “Logbook Entry A” and “Logbook Entry B” sections of this Service Bulletin, changed “Safety Bulletin” to read “Service Bulletin” as per ASTM F3198.509 section 8.0.

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:

ICON Aircraft has identified that the air rudder upper hinge pin may have been under torque 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.

ASSEMBLIES AND PARTS:

PART NUMBER	DESCRIPTION	QUANTITY	ALTERNATE	
			PART NUMBER	DESCRIPTION
N/A	Tef-Gel	As Needed		



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IF APPLICABLE, SERVICE KITS:

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

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:

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.

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.

Repair

1. Set torque to 58 in-lbs and torque the air rudder hinge pin. Apply torque stripe, so it will be visible when the 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).



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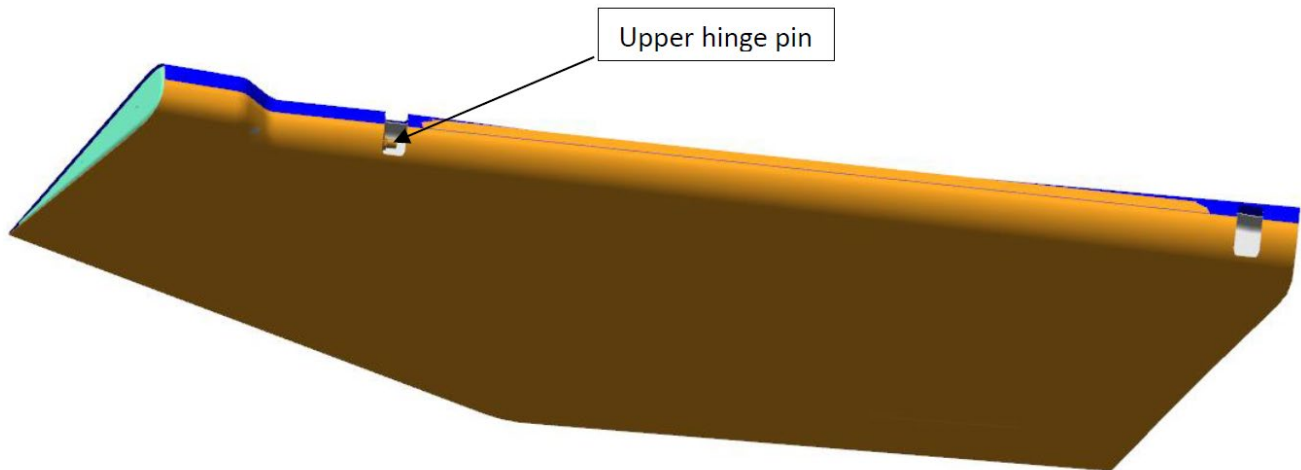


Figure 1 Upper Air Rudder Hinge Pin

WARRANTY

ICON Certified Service Providers: Please submit an invoice for warranty reimbursement for labor on completion of Service Bulletin number SB-062322-B. 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:

"I hereby certify the inspection and repair has been completed in accordance with Service Bulletin (SB-062322-B, Air Rudder Hinge Pin) and all the referenced documents. Potentially unclear procedures have been clarified with ICON Aircraft. 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, make the following logbook entry:

"I hereby certify the inspection has been completed in accordance with Service Bulletin (SB-062322-B, Air Rudder Hinge Pin) and all the referenced documents. Potentially unclear procedures have been clarified with ICON Aircraft. The current torque value is _____ (ref. FAA Exemption 10829B)."



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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.