



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

SAFETY DIRECTIVE/ALERT

SD-031717 REV A

DATE ISSUED: 03/17/2017
DATE EFFECTIVE: 03/17/2017
SUPERSEDES NOTICE: N/A
SUBJECT: Elevator center hinge retention
AIRCRAFT AFFECTED: **MODEL:** A5
S/N: 00001 to 00019
REQUIRED ACTION: Install ball bearing using Loctite 603
TIME OF COMPLIANCE: Prior to Next Flight

PURPOSE:

ICON is committed to designing, manufacturing, delivering, and supporting a high quality Light Sport Aircraft, providing a level of safety well beyond expectations.

ICON has experienced several anomalies related to the functionality of the A5 pitch control system. Although none of these events individually have resulted in a safety of flight issue, ICON believes when assessed collectively could potentially have an impact to the safety of flight.

PARTS LIST:

PART	DESCRIPTION	A5
MS27640-3	Bearing, Ball, Airframe, Anti-Friction, Heavy Duty	1
Loctite 603	Retaining Compound, Cylindrical Bonding	A/R
Loctite 7471	Activator for Loctite	A/R
*ICA007274	*Hinge, Elevator, Cntr	*1

*This component may not be required. Replacement depends upon the bore tolerance as measured after bearing removal.



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INSTRUCTIONS:

Task Specific Training:

This bearing replacement is to be performed by an ICON Aircraft, Inc. employed and trained mechanic with an Airframe certificate.

1. Remove elevator in accordance with the Aircraft Maintenance Manual. Retain bushings for future use.
2. Inspect all bushings for serviceability (bushings identified in Figure 1). Replace any unserviceable bushings.
3. Inspect the installed bearing (MS27640-3) identified on Figure 2. If the bearing is firmly retained, the outer race is flush and square with the elevator center hinge surfaces, and there is evidence of Loctite 603 (Loctite 603 is light green in color and may have partially filled the chamfer on the bearing outer race) having been applied on installation, it is acceptable to leave the installation untouched (leave bearing installed, and skip steps 4 to 9 below). If there is any uncertainty at all, remove and replace the bearing in accordance with the following steps.
4. Remove the bearing (MS27640-3) from the elevator center hinge shown in Figure 2.
5. Visually inspect the surfaces of the bearing outer race, and the hinge bore to check for evidence of a broken Loctite bond. If any evidence of Loctite is found, and the bond has been broken in service, contact ICON Engineering prior to further repair action.
6. Clean the hinge bore to remove all foreign material (including any remnants of previous Loctite adhesive).
7. Ensure anodizing on bore surface remains intact. If anodizing is worn away replace the hinge bracket with a serviceable part.
8. Measure bore diameter at multiple locations. Ensure bore is within $\varnothing_{.7784}^{.7805}$ at all locations. If bore is out of these specified tolerance limits replace the hinge bracket with a serviceable part.
9. Install a replacement bearing (MS27640-3) to the bore using Loctite 603 retaining compound with Loctite 7471 activator. Surface preparation, application and cure to be in accordance with adhesive manufacturer's instructions.
10. Push by hand axially on the outer race of the bearing to ensure secure.

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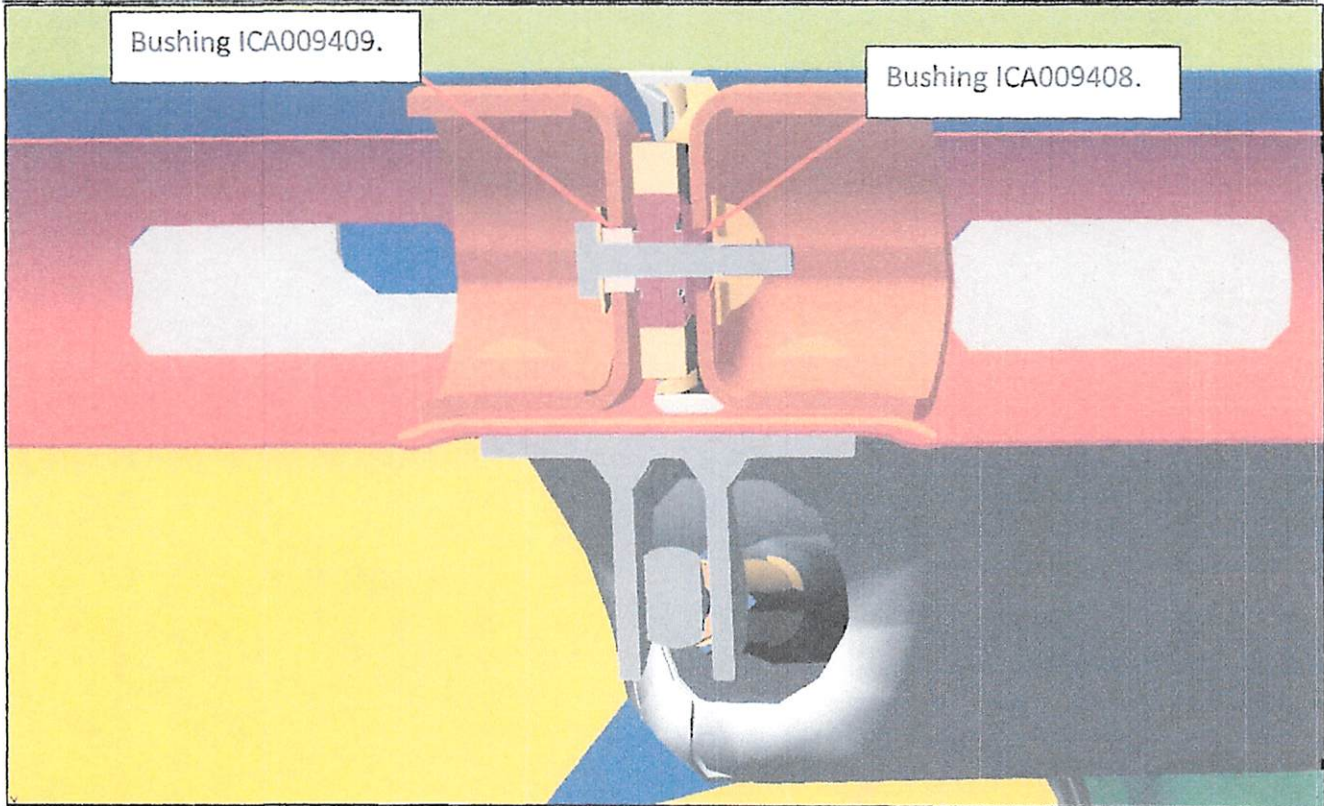


Figure 1: Hardware stack.

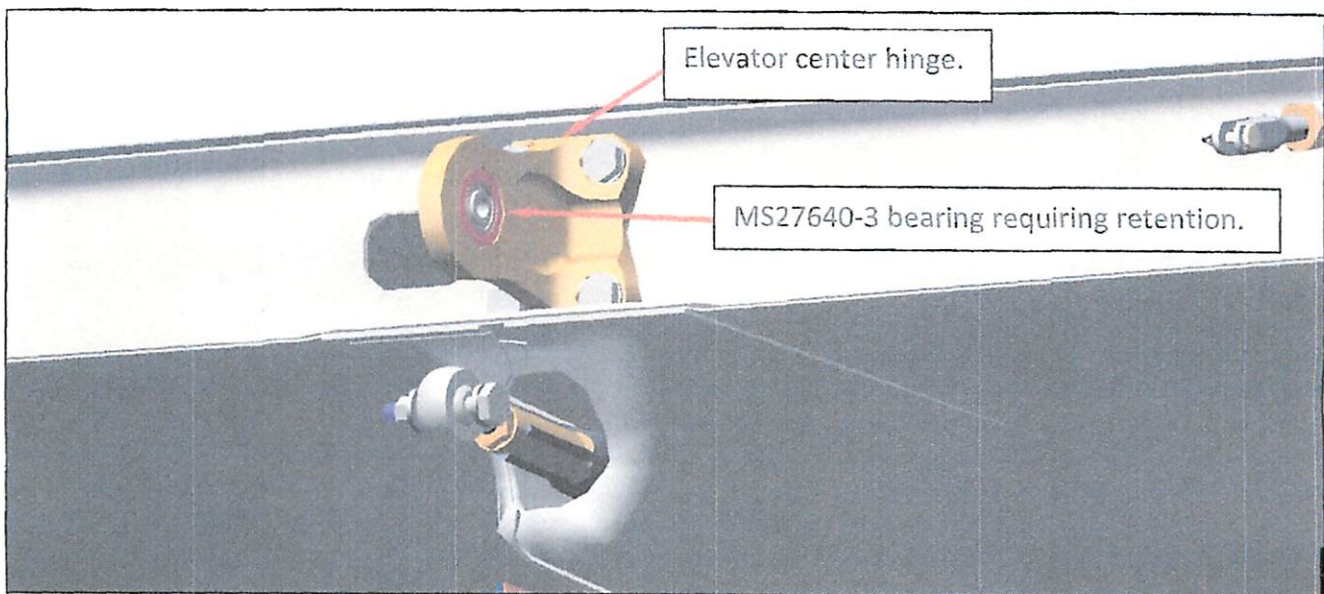


Figure 2: Elevator center hinge.



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Make the following logbook entry:

“The corrective action of Safety Directive SD-031717-A has been complied with and reported to ICON Aircraft Owner Support”.

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

If you are no longer owner/operator 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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SAFETY DIRECTIVE APPROVAL

Matthew Ginta

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3/17/2017

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