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SERVICE BULLETIN

SB-033018 REV B

DATE ISSUED:	5/13/2018
DATE EFFECTIVE:	4/1/2018
SUPERSEDES NOTICE:	N/A
SUBJECT:	Engine oil return fitting clearance and torque checks
AIRCRAFT AFFECTED:	**MODEL:** ICON A5 **S/N:** 00001-00036
REQUIRED ACTION:	Inspect engine oil return hose fitting for proper clearance from firewall and retorque both oil tank and engine oil return fittings.
TIME OF COMPLIANCE:	At or before the next service intervention, or regularly scheduled maintenance event, but not to exceed the next one hundred (100) hours' time-in-service from the effective date above.
REVISION NOTES:	Rev B: Updated S/N Effectivity from S/N: All to S/N 00001-00036

PURPOSE:

ICON is committed to designing, manufacturing, delivering, and supporting a high quality Light Sport Aircraft, providing a level of safety well beyond expectations. A recently received service report indicated that the oil return fitting on the engine was found loose. The purpose of this Service Bulletin is to provide instructions on checking and increasing the torque on the engine oil return fitting, increasing the torque on the oil tank return fitting, and on ensuring that proper clearance between the engine oil return fitting and the firewall exists.

WARRANTY:

ICON Certified Service Providers: Please submit an invoice for warranty reimbursement for labor on completion of this service bulletin. Please reference service bulletin number SB-033018.

1. 1-man hours of labor for disassembly, torque check of two fittings, and reassembly.
2. Information found during this inspection will be required to receive warranty reimbursement.

PARTS LIST:

1. None

Instructions:

Special tools, fixtures, or test equipment:

1. 7/8" 12-point crows foot wrench

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PREPARATION:

1. 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 Aircraft Maintenance Manual, ICA000833.
2. Remove the upper engine cowling, right side muffler fairing, and right side lower cowl assembly.

INSTALLATION:

1. _____Torque the oil tank oil return hose fitting to 300-350 in-lb. Use a back up wrench to oppose the torque as shown in Figure 1. This torqueing method will require a torque offset calculation detailed in FAA Advisory Circular 43.13-1B chapter 7 Figure 7-2.

CAUTION: Ensure a back-up wrench is used on the oil tank fitting during torqueing process. Damage to the oil tank may occur if a back up wrench is not used.

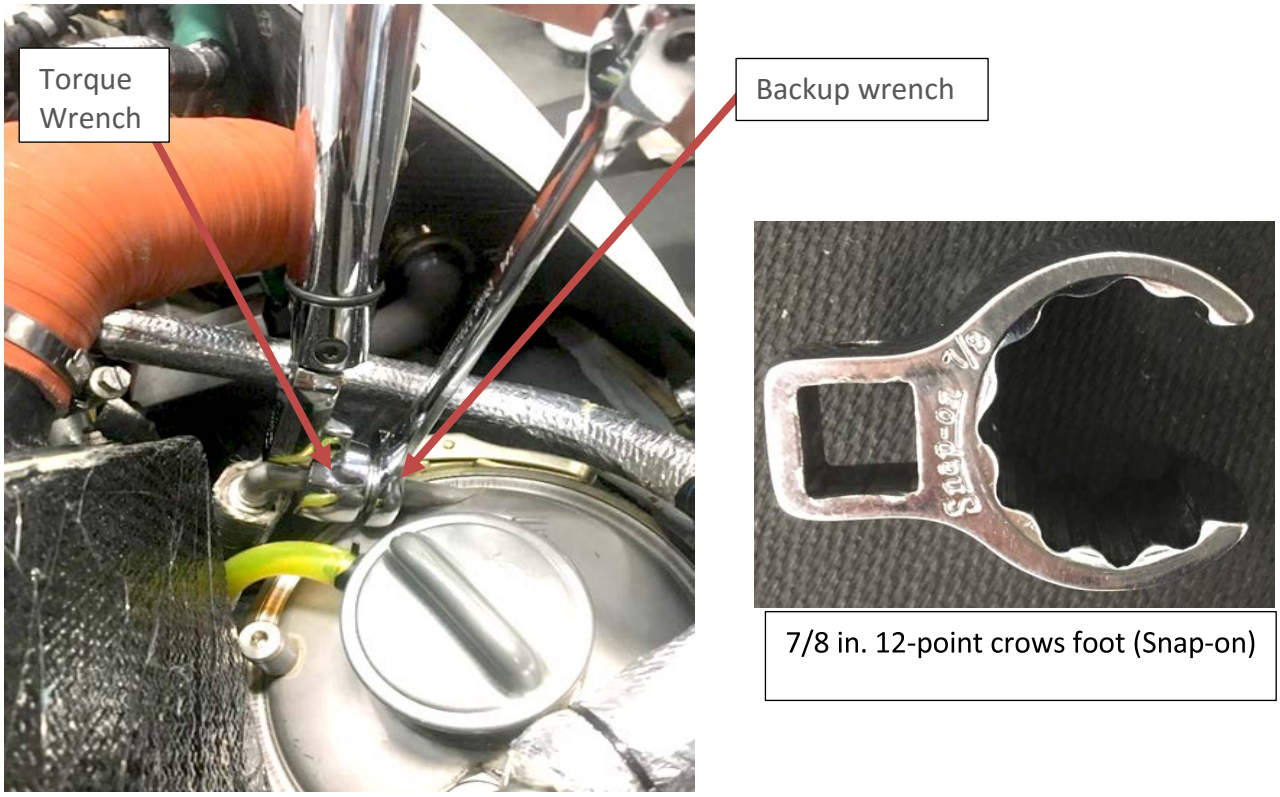

Figure 1: Engine Oil Tank return hose fitting torqueing and 7/8 in. 12-point crows foot special tool

2. ____Check the clearance between the firewall and the engine oil return fitting. The clearance should be set to approximately 3/8” from the firewall. If not set the initial torque in step 3,

annotate the results then lightly loosen the oil fitting to adjust. Torqueing of the fitting is in step 3 and 4 below.

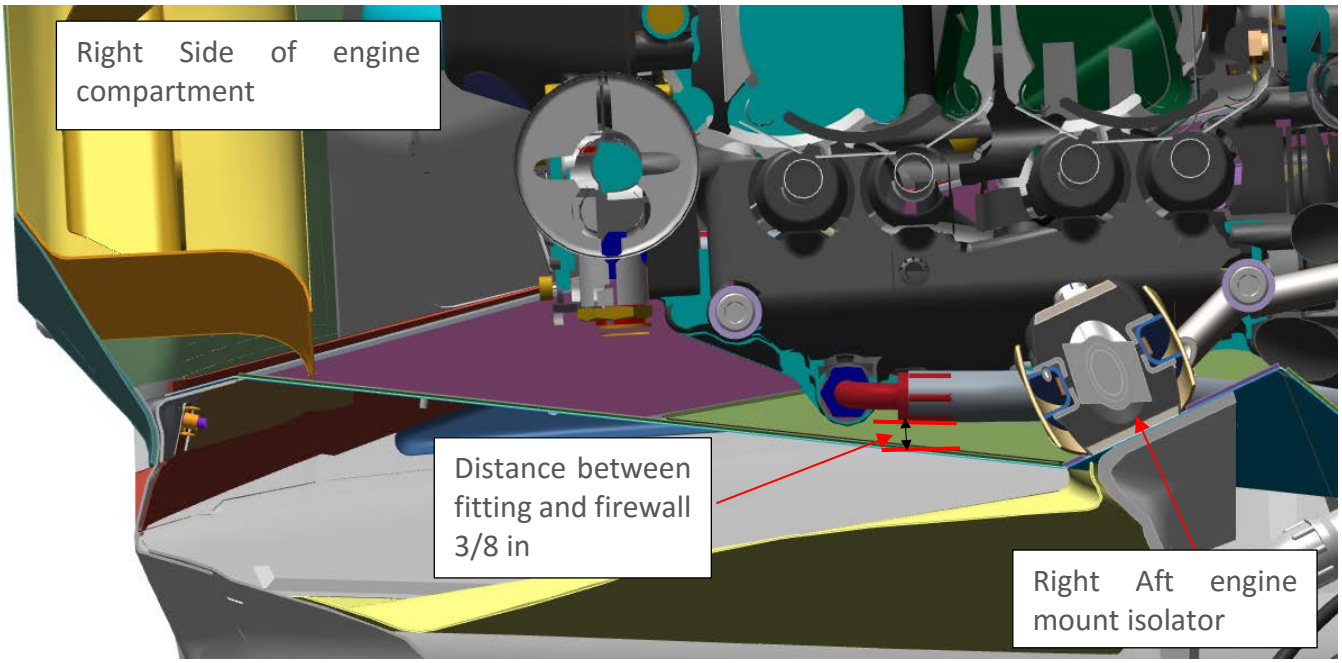

Figure 2: Clearance between oil return hose fitting and firewall

3. _____Set the initial torque of the engine oil return line 90° fitting to **150 in-lb**. This can be done **without** removing the engine if using a 7/8 in. 12-point crows foot wrench. Place an approximate 3/8" shim block between fitting and the firewall while torqueing to ensure the fitting doesn't move closer to the firewall during the torqueing process. This torque will also require a torque offset calculation detailed in FAA A.C. 43.13-1B chapter 7, Figure 7-2. This operation is shown in Figure 3 below: **Note below if the fitting moves while torqueing to 150 in-lb. This information will be required to receive reimbursement for the warranty claim.**

Did the fitting move while torqueing to 150 in-lb.? **YES / NO**

4. _____Using the same procedure in step 3 set the final torque of the engine oil return line 90° fitting at **300-350 in-lb.**

NOTE: Ensure the torque offset calculation is recalculated for the final torque setting.

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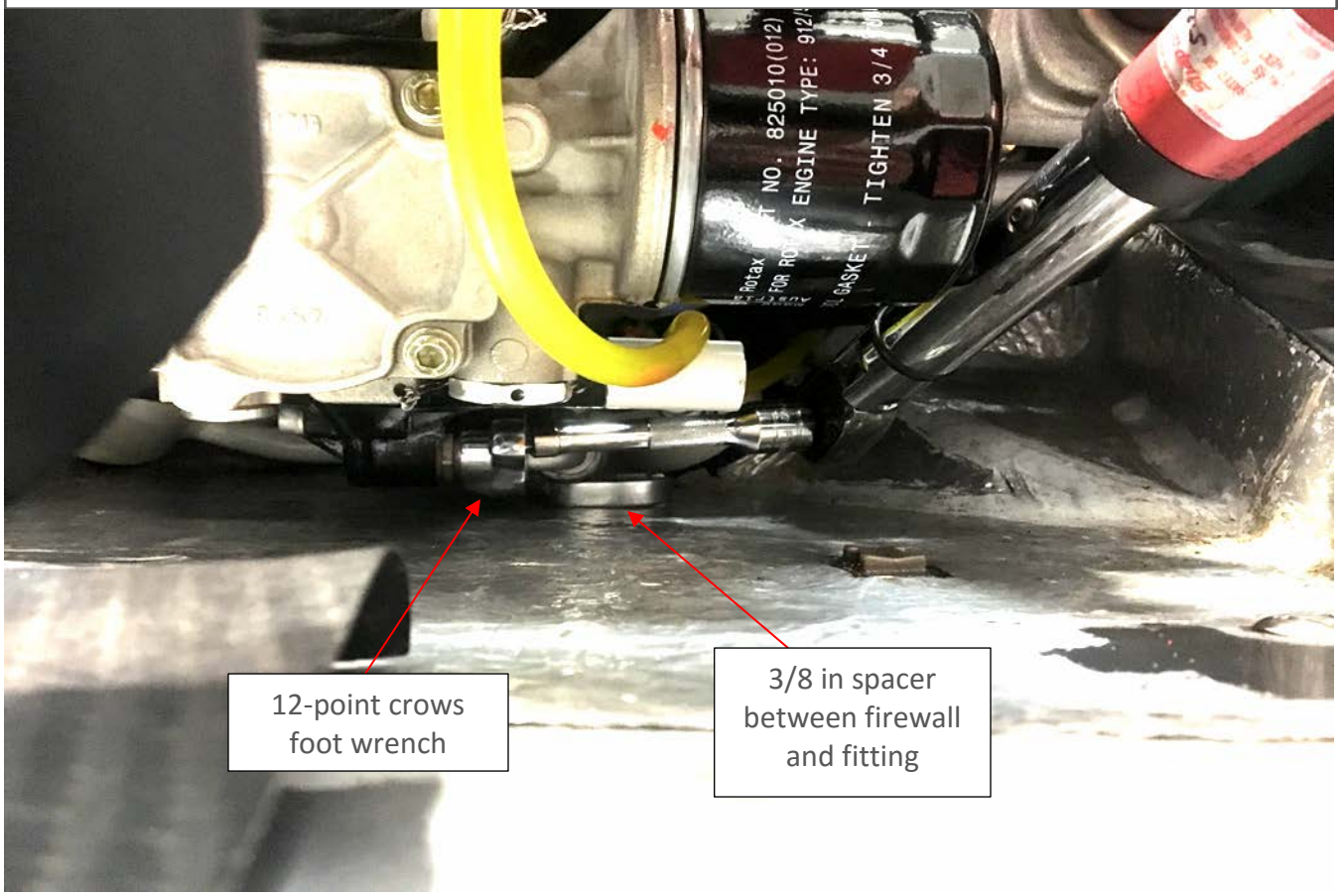

Figure 3: Engine oil return line fitting torqueing

5. Ensure that the 3/8 in spacer is removed from the aircraft and reassemble the aircraft in accordance with the most current maintenance manual

VERIFICATION:

1. Ground Run the aircraft and ensure proper oil pressure.
2. Post ground run check for leaks around the torqued oil lines.

MAKE THE FOLLOWING LOGBOOK ENTRY:

"Service Bulletin (insert subject bulletin number) has been complied with and installation is reported to ICON Aircraft Customer Owner 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.

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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

Bret Davenport	Flight Sciences Manager	5/14/2018
NAME	TITLE	DATE
NAME	TITLE	DATE
NAME	TITLE	DATE