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SAFETY DIRECTIVE/ALERT

SD-100421-A

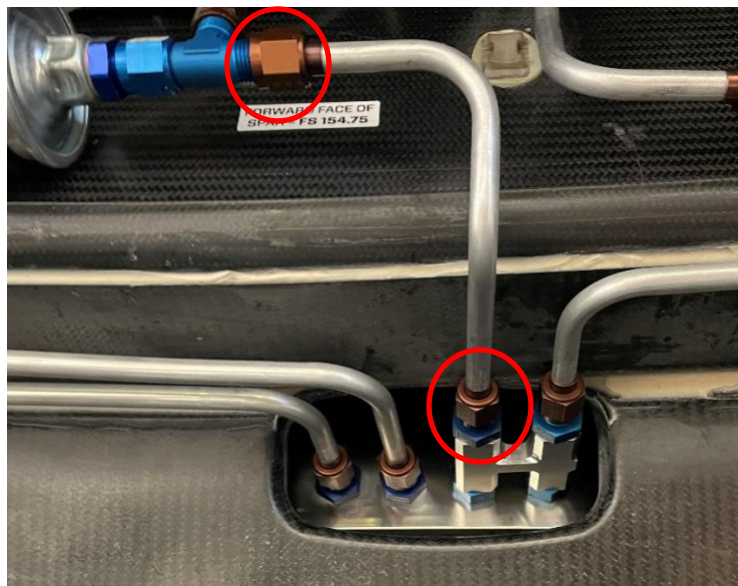
DATE ISSUED: 10/4/2021
DATE EFFECTIVE: 10/4/2021
SUBJECT: Non-Conforming Fuel Pressure Relief Blocks
AIRCRAFT AFFECTED: **MODEL:** A5
S/N: 00056 - 00074, 00076-00135, 00137-00139, and 00142
REQUIRED ACTION: Inspect fuel pressure relief block. Replace if non-conforming.
TIME OF COMPLIANCE: Prior to next non-ferry flight. Up to 10 hours of ferry flight by owner allowed to facilitate delivery to an ICON Service Partner.
REVISION HISTORY N/A

PURPOSE: ICON aircraft has become aware that a group of fuel pressure relief blocks were improperly machined causing an internal O-ring to not seal properly. Two different vendors supplied the fuel blocks, but only one vendor's product was improperly machined. All the aircraft affected listed above must be inspected and those with the non-conforming fuel pressure relief blocks will need to have the non-conforming part replaced. To date, there have been no reported fuel leaks due to the O-ring not sealing properly.

INSTRUCTIONS:

DETERMINING IF THE FUEL BLOCK IS DEFECTIVE:

- 1) Remove headliner per maintenance manual (ICA000833, Issue C5) section 3.6.2.1.
- 2) Set fuel shut-off valve to "ON" to allow any fuel in the lines to drain to the tank
- 3) Loosen fuel block supply line. Make sure to capture any fuel that drains from the lines using an appropriate fuel absorbent material.



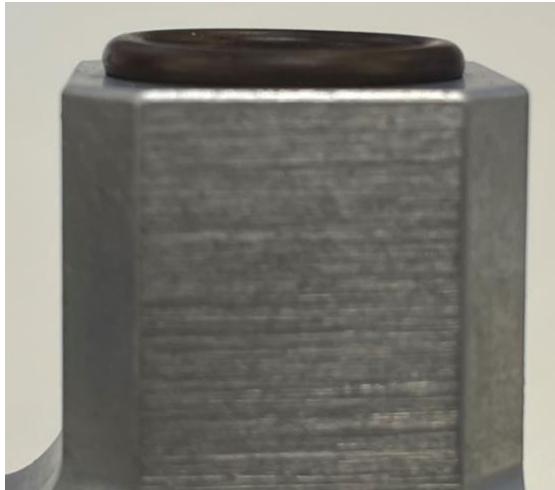
- 4) Loosen fittings using two wrenches, one on the fitting hex and the other on the fuel block.

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- a. Once loosened, carefully back out the fitting by hand.
- b. Take note whether there is drag in the fitting from a properly sealed O-ring. If the O-ring is not seated properly the fitting will come out freely with little resistance.
- c. With the fitting removed, complete one or both of the following tests to determine conformance (O-ring placement check or Caliper/Dowel Check):

i. O-ring Placement Check

1. Carefully remove the O-ring, and place it back in the fuel block
2. If the O-ring fits snugly then the fuel block is conforming

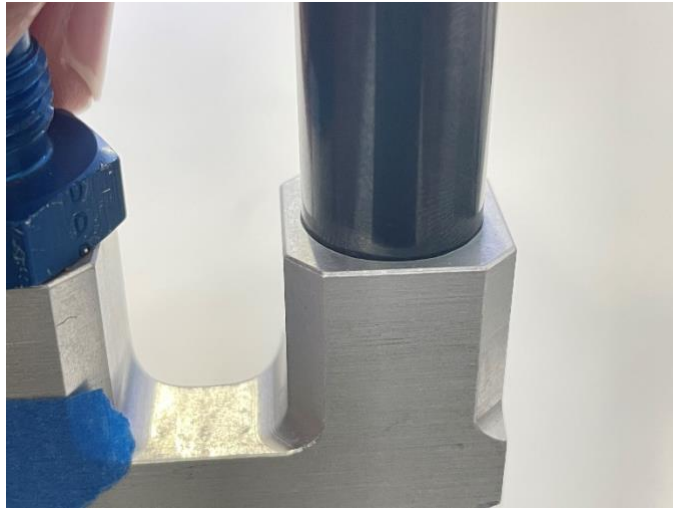


3. If the O-ring has a gap, then the fuel block is non-conforming

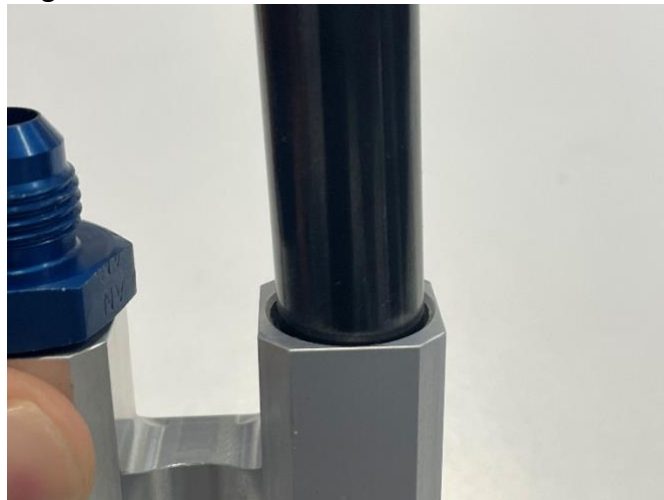


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1. Measure the O-ring sealing surface using either calipers or a 5/8 dowel or gauge pin (dowel must not have taper on the end). Place the dowel into the O-ring gland (with O-ring removed).
2. If the dowel rests on the initial face or slightly sub flush, then the fuel block is conforming.



3. If the dowel can be placed into the O-ring gland, then the fuel block is non-conforming.



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CORRECTIVE ACTION:

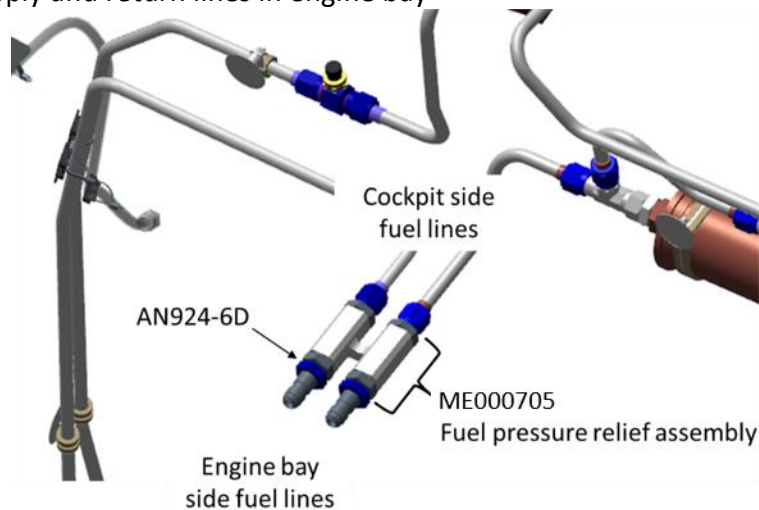
If Non-Conforming - FUEL BLOCK REPLACEMENT

Consumables and bulk materials list:

P/N	Description	Qty
ME000705	Block, Pressure Relief, Fuel, SUB ASSEMBLY	1
Torque Stripe	Torque Stripe	As Needed
AN924-6D	NUT, TUBE, BULKHEAD AND UNIVERSAL FITTING	2
ICA011907	Insulation	As Needed
S-10311	Tape	As Needed

Installation:

1. Remove fuel supply and return lines in engine bay



2. Remove hex nut on fuel fittings in engine bay
 - a. Exhaust system may have to be removed on left hand side. Refer to maintenance manual for procedures (ICA000833, Issue C5) section 16.1.6.2.1 (ASN 00001-00109) or section 16.1.6.2.3 (ASN 00110+).
3. Remove fuel block assembly. Scrap part to ensure no potential for inadvertent reinstallation.
4. Install new fuel block assembly (ME000705) into firewall using AN924-6D hex nuts. Torque 300 in-lb to 310 in-lb.
5. Install fuel supply and return lines in engine bay. Torque 110 in-lb to 130 in-lb
6. Re-install fuel line insulation and secure with aluminum tape.
7. Install fuel supply and return lines in cockpit. Torque 110 in-lb to 130 in-lb
8. If Exhaust was removed, re install per maintenance manual section 16.1.6.2.2 (ASN 00001-00109) or section 16.1.6.2.4 (ASN 00110+).
9. Apply torque stripe to all fittings that were re installed.



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10. Select Master Power to ON and Ignition Switch to BOTH (do not start engine)
11. Inspect for any fuel leaks in the fuel block. If leaks are present, verify all steps of installation process. If installed correctly and leaks are still present, contact ICON aircraft at support@iconaircraft.com
12. Install headliner per maintenance manual (ICA000833, Issue C5) section 3.6.2.2.

Make the following logbook entry:

“The corrective action of Safety Directive/Alert SD-100421-A has been complied with and reported to ICON Aircraft Service. Fuel block ICA009839 was non-conforming and replaced with a conforming part.”



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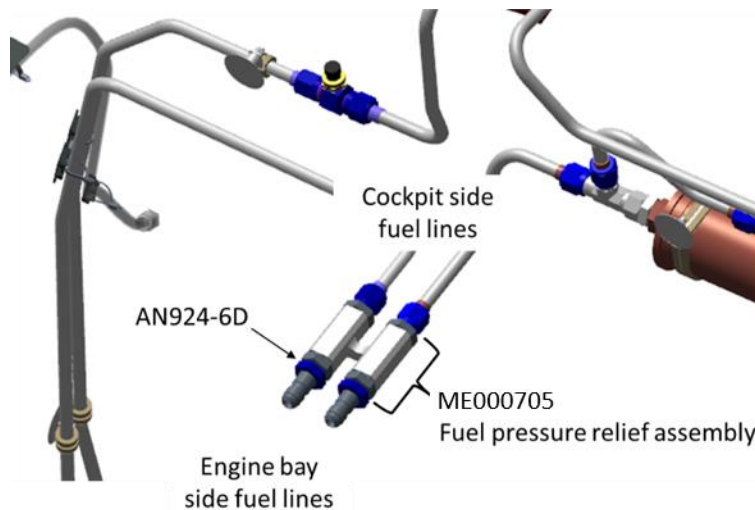
If Conforming - FUEL BLOCK REINSTALLATION

Consumables and bulk materials list:

P/N	Description	Qty
Torque Stripe	Torque Stripe	As Needed
AN924-6D	NUT, TUBE, BULKHEAD AND UNIVERSAL FITTING	2

Installation:

1. Install AN815-6D fittings with original O-ring. Torque 300 in-lb to 310 in-lb
2. Install fuel supply line in cockpit. Torque 110 in-lb to 130 in-lb
3. Select Master Power to ON and Ignition Switch to BOTH (do not start engine)
4. Inspect for any fuel leaks in the fuel block. If leaks are present, verify all steps of installation process. If installed correctly and leaks are still present, contact ICON aircraft at support@iconaircraft.com
5. Install headliner per maintenance manual (ICA000833, Issue C5) section 3.6.2.2.



Make the following logbook entries:

“The corrective action of Safety Directive/Alert SD-100421-A has been complied with and reported to ICON Aircraft Service. Fuel block ICA009839 was conforming and reinstalled in accordance with Safety Directive procedures.”

Notify ICON Aircraft of your inspection results (support@iconaircraft.com)



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Warranty Information:

ICON Certified Service Providers: Please submit an invoice for warranty reimbursement for labor upon completion of this Safety Directive/Alert. Please reference Safety Directive number SD-092121-A.

- 1) 1 hours for inspection without the need to replace the fuel block.
- 2) 3.0 hours for fuel block inspection and replacement.

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
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.