



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

SERVICE BULLETIN

SB-081616 REV A

DATE ISSUED: 8/16/2016
DATE EFFECTIVE: 8/16/2016
SUPERSEDES NOTICE: None
SUBJECT: Engine Wire Harness Protection
AIRCRAFT AFFECTED: **MODEL:** ICON A5
S/N: 00001, 00003 - 00011
REQUIRED ACTION: Inspect engine wire harness for chaffing. Use spiral wrap to protect any areas that are prone to chaffing.
TIME OF COMPLIANCE: Before next flight

PURPOSE:

It was discovered during post flight check that an aircraft had a short caused by chaffed wires from the engine wire harness chaffing against the plenum box on the top left hand (LH) side of the engine. Upon inspection, the engine wire harness branch going to the LH side fuel injectors was pressed against the forward left side of the plenum box and chaffing occurred due to the natural vibration of the engine.



Figure 1. Engine wire harness damage due to chaffing

Inspection of where the harness wraps around the forward right hand (RH) side of the plenum box also revealed areas prone to chaffing.



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Although there have been no customer safety or performance notifications from a damaged engine wire harness, to date, ICON Aircraft is implementing a solution to prevent possible shorting as a result of damage to the wire harness. This Service Bulletin is to provide instructions on how to inspect wire harness installation and determine if a repair and/or added protection is needed.

WARRANTY:

N/A

PARTS LIST:

PART	DESCRIPTION	A5
HT 1/2 N-100	WRAP, SPIRAL, NYLON, 1/2" OD	AR
F4TAPEBLACK	TAPE, SELF-FUSING, SILICONE, .02 IN THK, 1 IN WIDE	AR

INSTRUCTIONS:

1. Remove engine cowling per ICON maintenance manual chapter 3.4.2.
2. Inspect engine wire harness for clearance and wear contact against the front LH and RH sides of the plenum box. The engine wire harness must have .5" minimum clearance from any corner or sharp edge of the plenum box in installed state.
3. Proceed to either condition 1 or condition 2 based on inspection findings.

Note: If inspection findings reveal that neither condition addresses the condition found, contact ICON Owner Support for further instructions.

Condition 1: If inspection reveals clearance below minimum or harness is in contact with corners or sharp edges

1. Inspect concerned areas for wire harness damaged as seen in Figure 1. If no damage is found, proceed to step 3.
2. If chaffing damage to insulation of wires is found, unwrap damaged area and individually wrap any damaged wire insulation using F4 tape. Then re-wrap entire bundle using F4 tape.
3. Using spiral wrap HT 1/2 N-100, wrap any portions of the engine wire harness that are not within the clearance minimum or are in contact with corners or sharp edges of plenum box.
4. Re-install engine cowling per ICON maintenance manual chapter 3.4.2.

Condition 2: Engine wire harness has adequate clearance with plenum box

1. Re-install engine cowling per ICON maintenance manual chapter 3.4.2.



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MAKE THE FOLLOWING LOGBOOK ENTRY:

“Service Bulletin SB-081616 Rev A. has been complied with and reported to ICON Aircraft Owner Support”.

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
ownersupport@iconaircraft.com

Please include the aircraft registration number, serial number, your name, and if known the contact information of the new owner/operator.