



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

# SERVICE BULLETIN

**SB-030223-A**

**ID NUMBER & REVISION:** SB-030223-A  
**SUBJECT:** CPS Wire Chafing  
**RELEASE DATE:** 31 March 2023  
**EFFECTIVE DATE:** 31 March 2023  
**SUPERSEDES NOTICE:** N/A  
**AIRCRAFT AFFECTED:** **MAKE & MODEL:** A5  
**SERIAL NUMBERS:** 00001 – 00136, 00139 – 00146, 00148 – 00150, 00152 – 00159, 00161, 00163, 00166  
**REQUIRED ACTION:** Inspect the CPS wires for any chafing and secure the CPS wires to the knock sensor bracket.  
**TIME OF COMPLIANCE:** At the next service interval.  
**REVISION HISTORY:** A Initial Release

**LEVEL OF CERTIFICATION**  Pilot/Owner  A & P  
**REQUIRED (any level checked can perform task):**  LSA Repairman – Inspection  Certified Repair Station  
 LSA Repairman – Maintenance  Manufacturer

**PURPOSE:**

It was discovered that there exists a potential for the ROTAX 912iS CPS wires to experience chafing from the wrapped knock sensor wires and/or free edge of CPS/Knock Sensor bracket due to the vibration of the engine. It is necessary to properly secure the CPS wires to the knock sensor bracket.

**ASSEMBLIES AND PARTS:**

PART NUMBER	DESCRIPTION	QUANTITY	ALTERNATE	
			PART NUMBER	DESCRIPTION
TY23MX	Cable – Tie, Black	A/R		
F4TAPEBLACK	F4 Tape, Black	A/R		

**IF APPLICABLE, SERVICE KITS:**

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

**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 the engine cowling.
  - a. ICON Aircraft Maintenance Manual: Remove Engine Cowlings ([100497](#)).

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2. Locate the CPS wires, near the Knock Wire Bracket, on the front of the engine.
  - a. See Figures 1 and 2.
3. Identify any evidence of wire chafing.
  - a. See Figure 7.
4. If there is no evidence of wire chafing, then:
  - a. Proceed to the “Repair” section of this Service Bulletin.
5. If there is evidence of wire chafing, but no wires are exposed through the insulation then:
  - a. Wrap the chafed area with F4 tape.
  - b. Proceed to the “Repair” section of this Service Bulletin
  - c. See Figure 7.
6. If there is evidence of wires exposed through the insulation, contact ICON Aircraft Service for further repair instructions.
  - a. Do not proceed to the “Repair” section of this Service Bulletin

#### Repair

1. Locate the CPS wires at the front of the engine, closest to the firewall.
  - a. See Figures 1 and 2

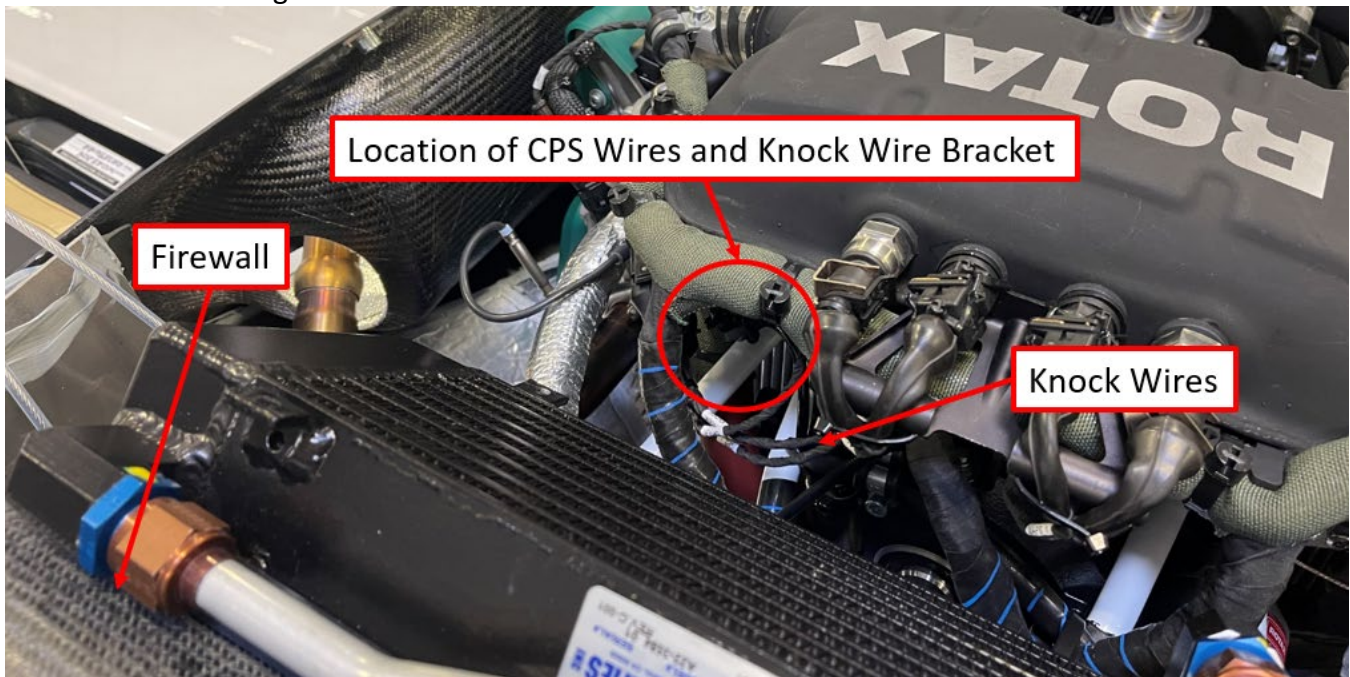
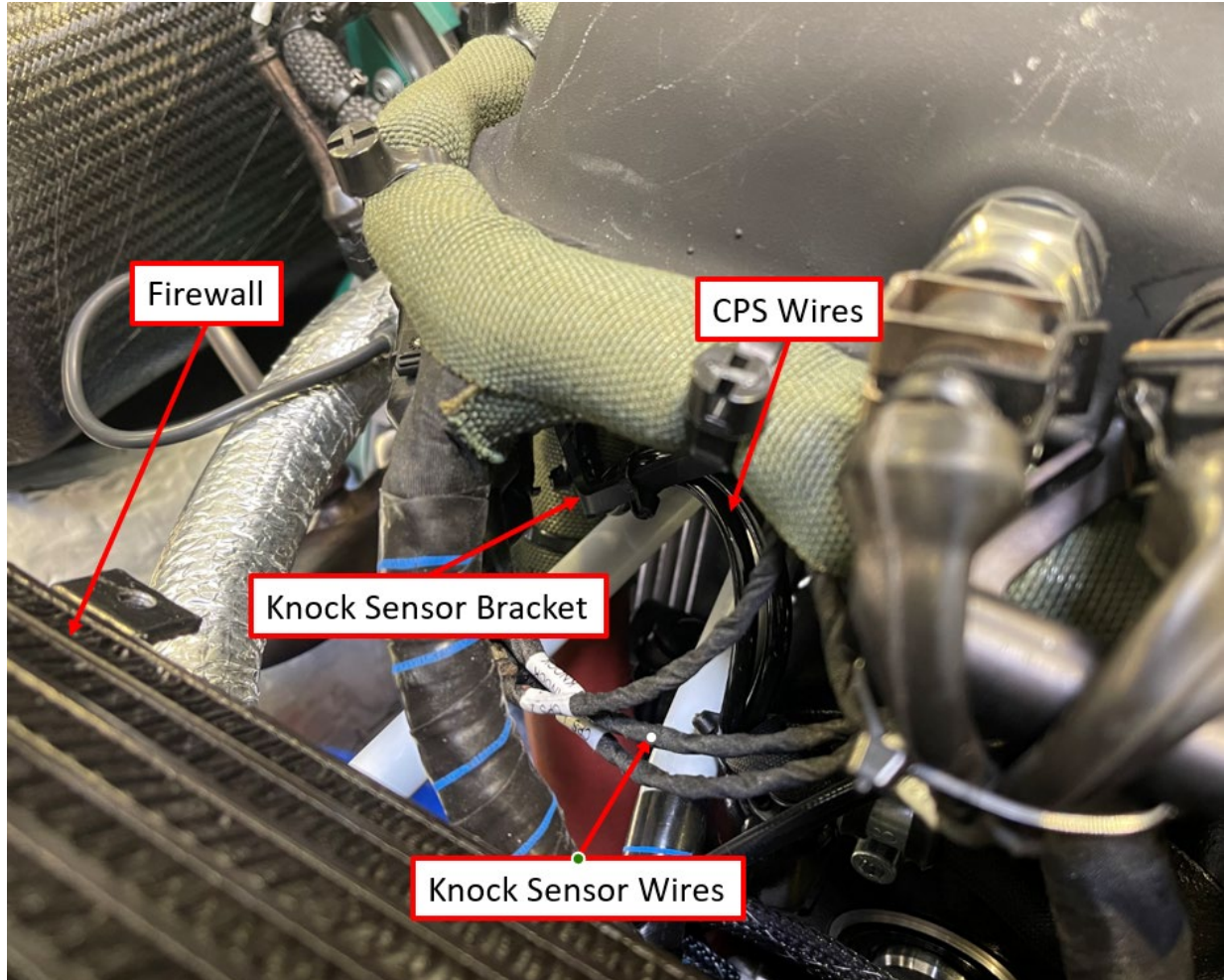


Figure 1 CPS Wire Location

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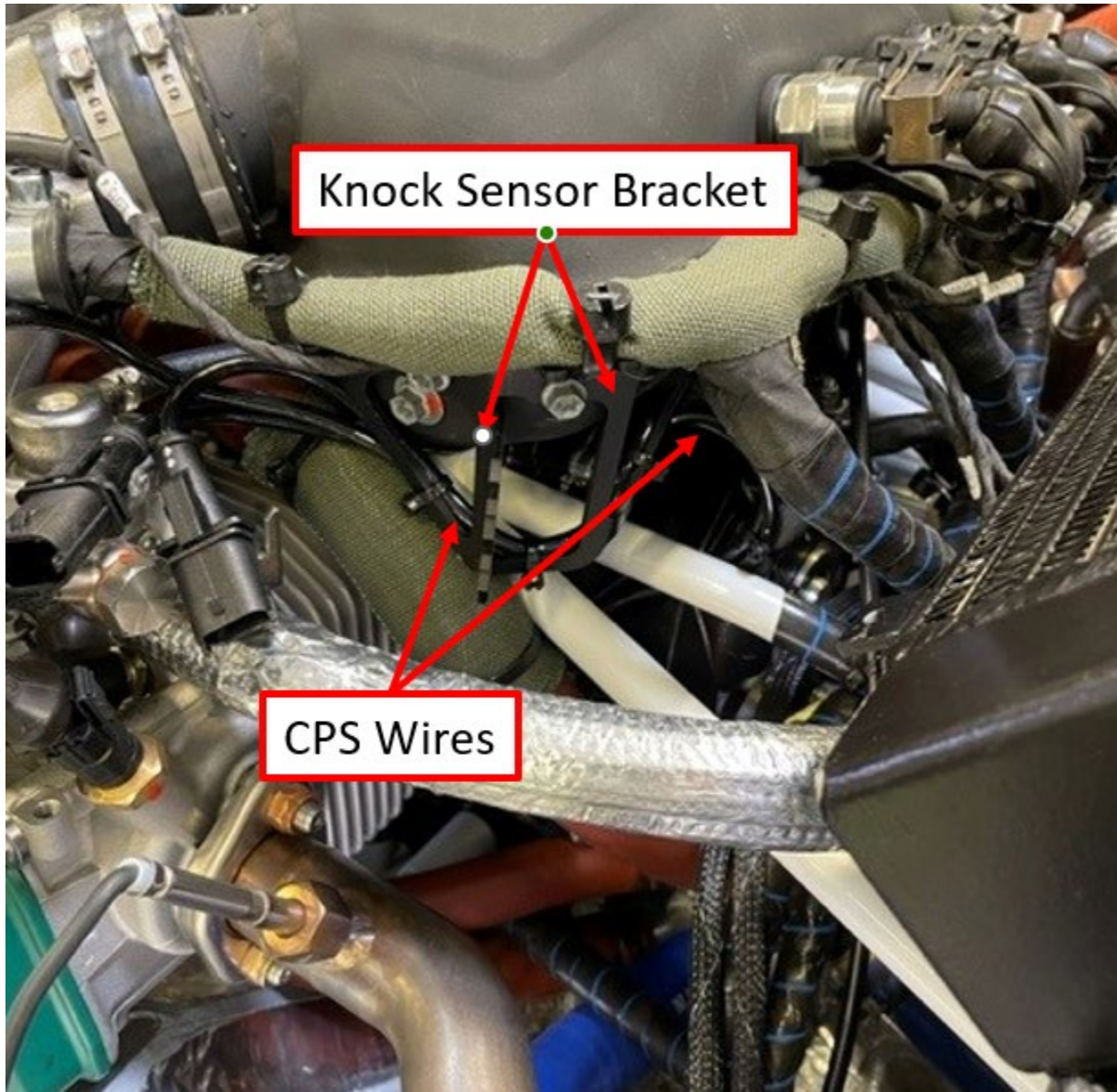
*Figure 2 CPS Wires*

2. Follow the CPS wires towards the back and below the engine until the Knock Sensor Bracket.
3. Reposition the CPS wires away from the Knock Sensor wires, over the engine mount tube and on the inside of the Knock Sensor Bracket.
  - a. See Figure 3.



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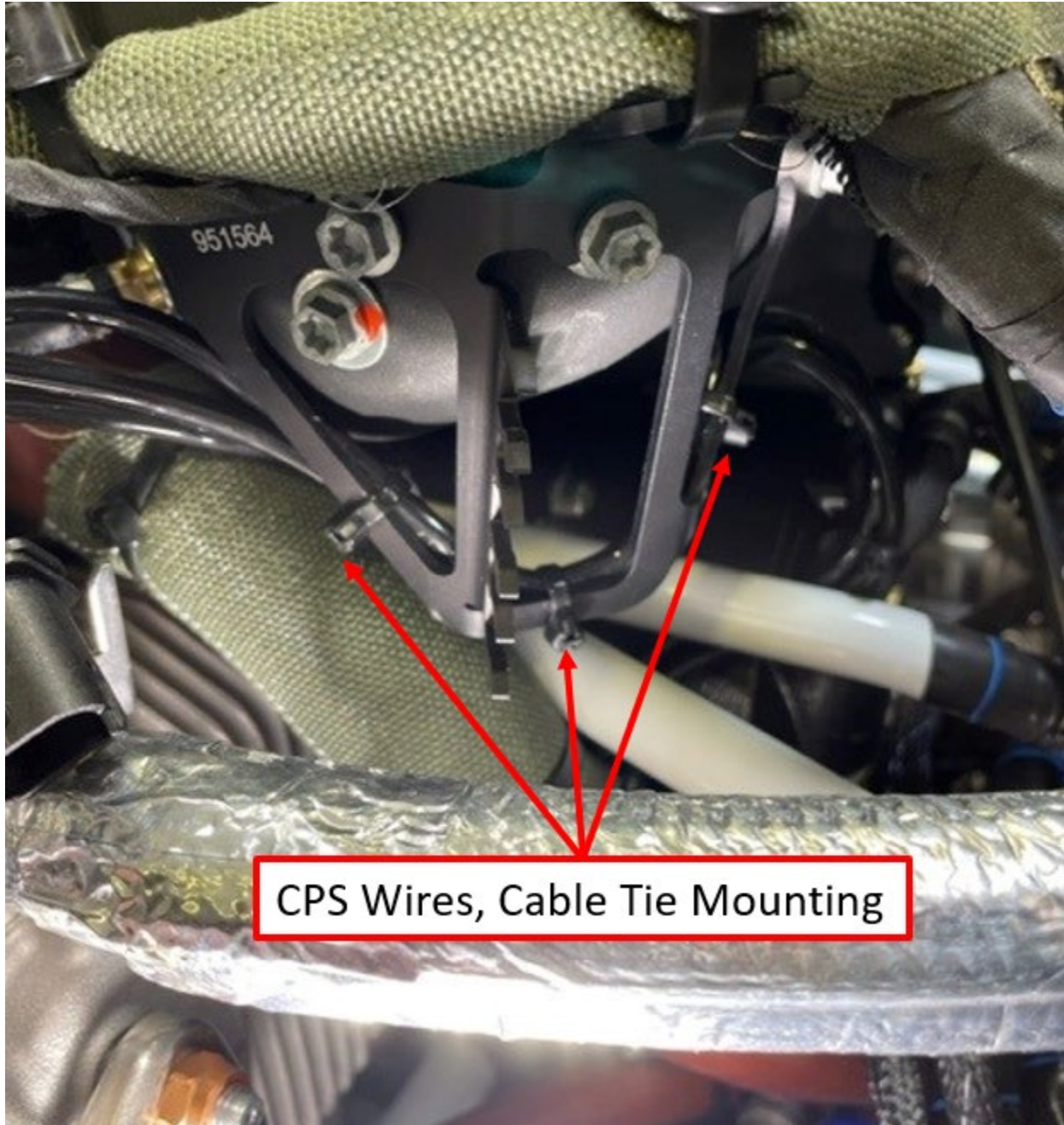
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*Figure 3 CPS Wire Routing*

4. Secure the CPS wires to the inside of the Knock Sensor bracket with three Cable Ties
  - a. See Figure 4

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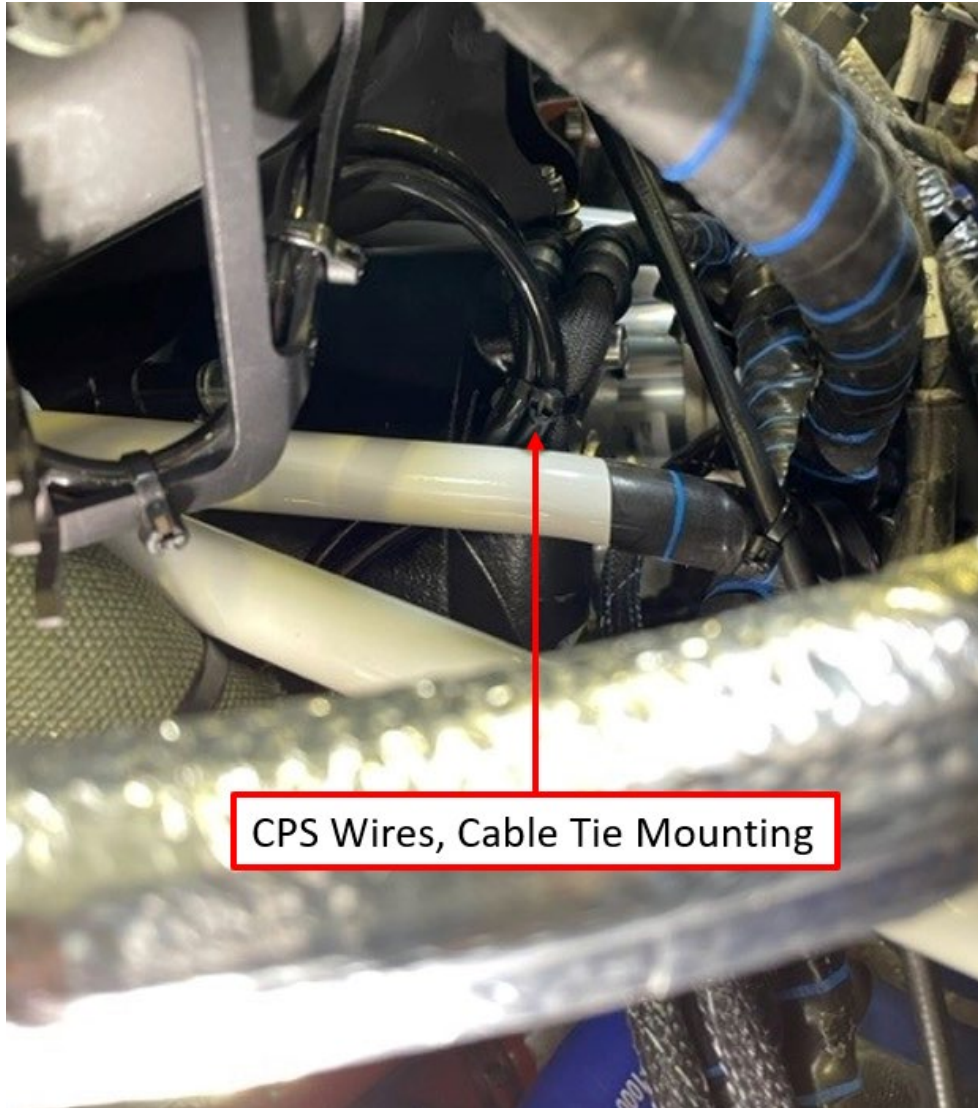
*Figure 4 CPS Wire Mounting*

5. Secure the CPS wires to the wire harness before the Knock Sensor bracket on the inside of the engine mount tube.
  - a. Use one Cable Tie.
  - b. See Figures 5 and 6.



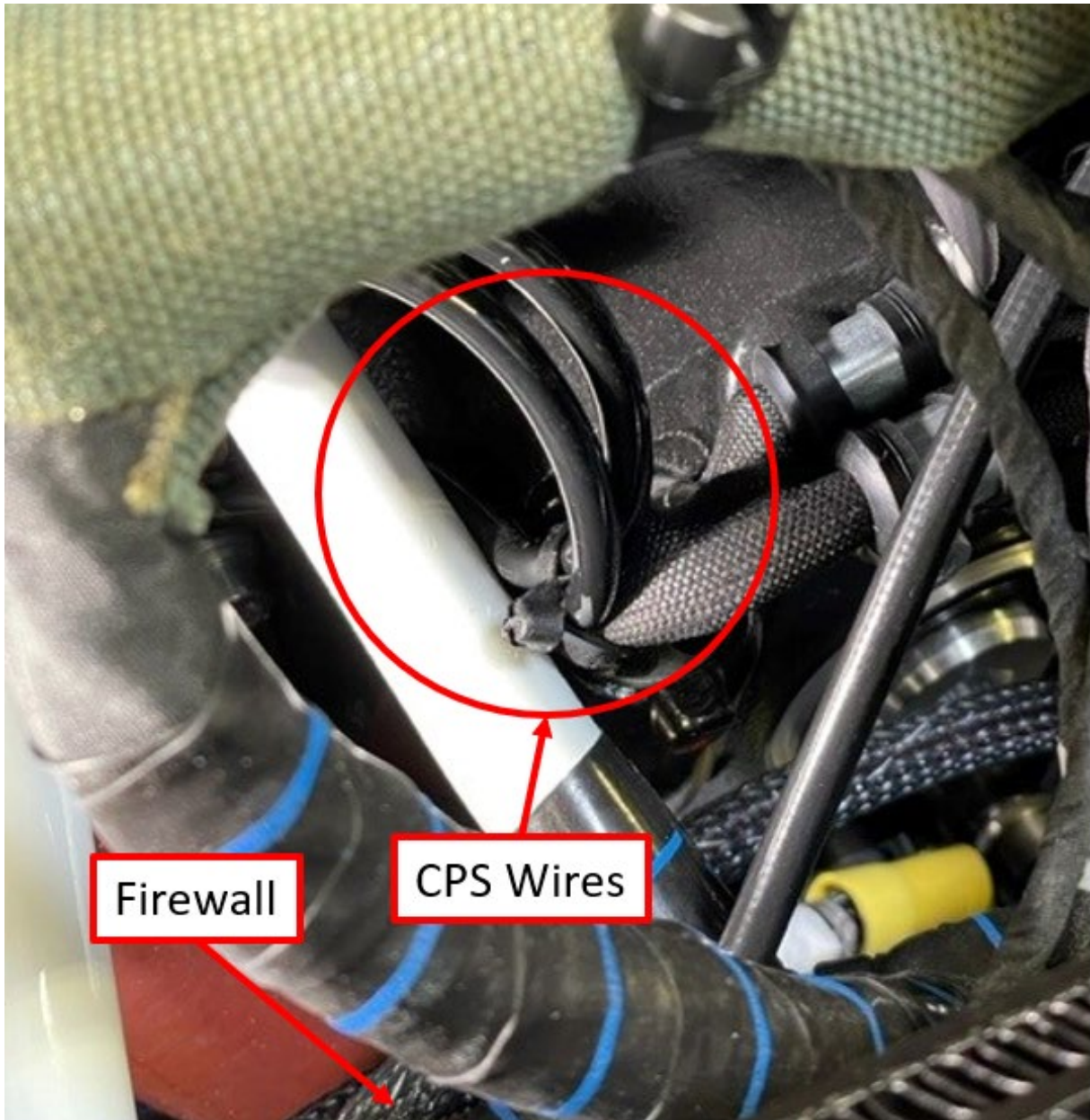
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*Figure 5 CPS Wire Mounting*

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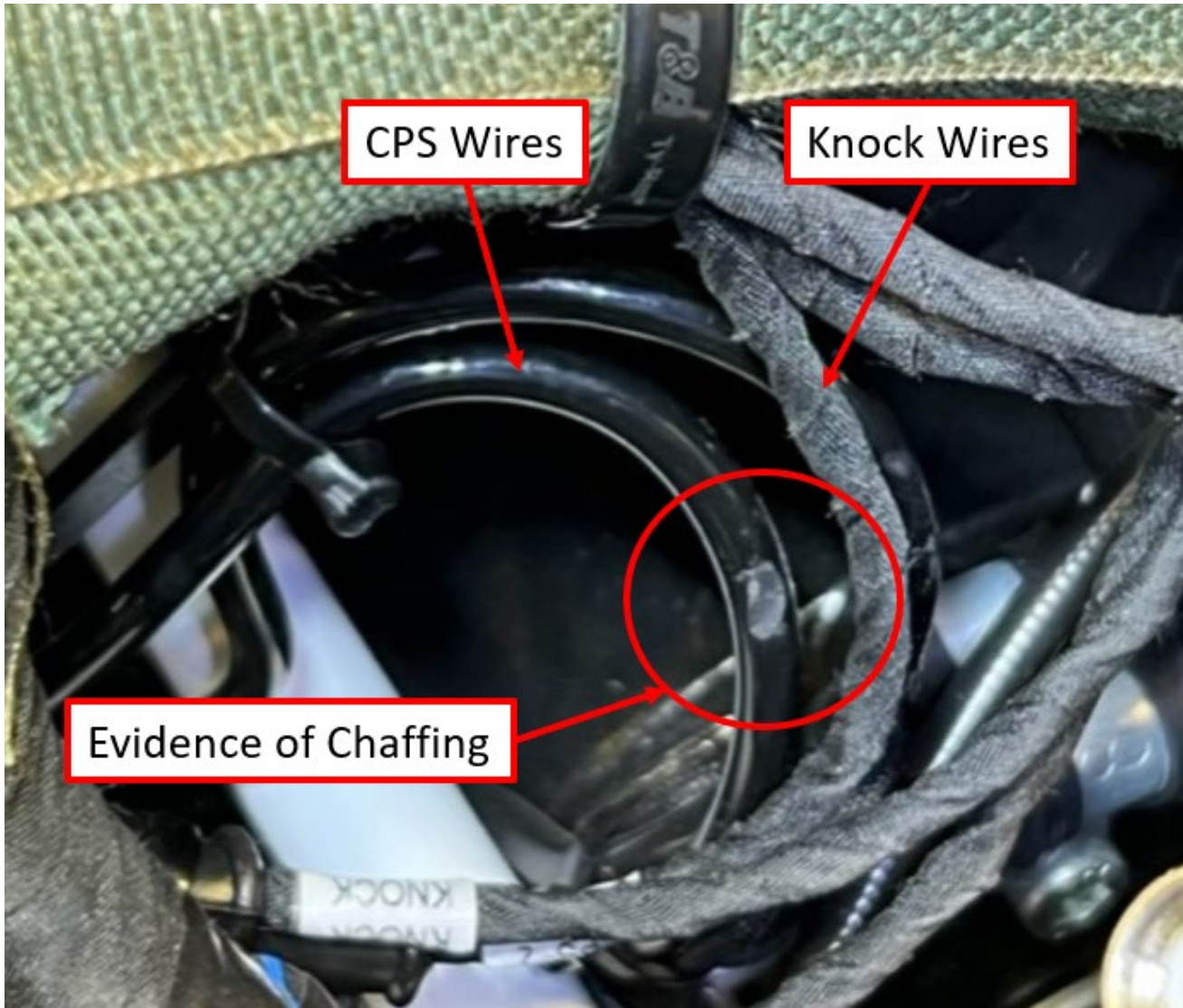
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*Figure 6 CPS Wire Mounting*



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*Figure 7 CPS Wire Chafing*

6. Install the engine cowling.
  - a. ICON Aircraft Maintenance Manual: Install Engine Cowlings ([100335](#)).
7. Make a logbook entry, indicating that this Service Bulletin has been complied with.





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**Make the following logbook entry:**

“I hereby certify the inspection and/or repair has been completed in accordance with Service Bulletin (SB-030223-A, CPS Wire Chafing) and all the referenced documents. Potentially unclear procedures have been clarified with ICON Aircraft. (ref. FAA Exemption 10829B)”.

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](mailto:support@iconaircraft.com)

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