



2141 ICON Way, Vacaville, CA 95688 - Tel: 707.564.4000 – [www.iconaircraft.com](http://www.iconaircraft.com)

## SERVICE BULLETIN

SB-022323-C

**ID NUMBER & REVISION:** SB-022323-C

**SUBJECT:** Throttle Cable Chafing

**RELEASE DATE:** 21 November 2025

**EFFECTIVE DATE:** 15 May 2023

**SUPERSEDES NOTICE:** SB-022323-B

**AIRCRAFT Affected:** **MAKE & MODEL:** ICON A5

**SERIAL NUMBERS:** 00001 – 00136, 00139 – 00146, 00148 – 00150,  
00152 – 00159, 00161, 00163, 00166

**REQUIRED ACTION:** Adjust the position of the throttle cable to provide clearance between the throttle cable and lower intake plenum mount and add additional security of the throttle cable to the engine mount.

**TIME OF COMPLIANCE:** At the next service interval

**REVISION HISTORY:**

- A** Initial Release
- B** Clarified instructions to ensure that there is a  $\frac{1}{4}$ " or greater clearance between the throttle cable and lower intake plenum mount *and* that there should be two cable ties securing the throttle cable to the engine mount. (Note change bars for reference).
- C** Cable tie PN was TY23MX, is TY24MX.

Note: No additional action is required if a previous revision was complied with.

**LEVEL OF CERTIFICATION**

Pilot/Owner

A & P

**REQUIRED (any level checked**

LSA Repairman – Inspection

Certified Repair Station

**can perform task):**

LSA Repairman – Maintenance

Manufacturer

### PURPOSE:

It has been identified that the throttle cable has been mounted on the engine in such a way that there will be little to no clearance between the throttle cable and lower intake plenum mount. The lack of proper clearance can cause the cable to chafe and potentially become damaged. Sustained damage to the throttle cable could lead to throttle cable failure and the inability of the pilot to control engine power. In addition, where the throttle cable is secured to the engine, chafing can occur if not properly secured.

### ASSEMBLIES AND PARTS:

PART NUMBER	DESCRIPTION	QUANTITY	ALTERNATE	
			PART NUMBER	DESCRIPTION
TY24MX	Cable Tie – Black	A/R		
F4TAPEBLACK	F4 Tape	A/R		

# SERVICE BULLETIN

**SB-022323-C**

## INSTRUCTIONS:

Perform the following service in accordance with the online ICON Aircraft [Maintenance Manual](#).

### Inspection:

1. Remove the engine cowling.
  - a. ICON Aircraft Maintenance Manual: Remove Engine Cowlings ([100497](#)).
2. Locate the throttle cable at the lower intake plenum mount.
  - a. See Figures 1 and 2.

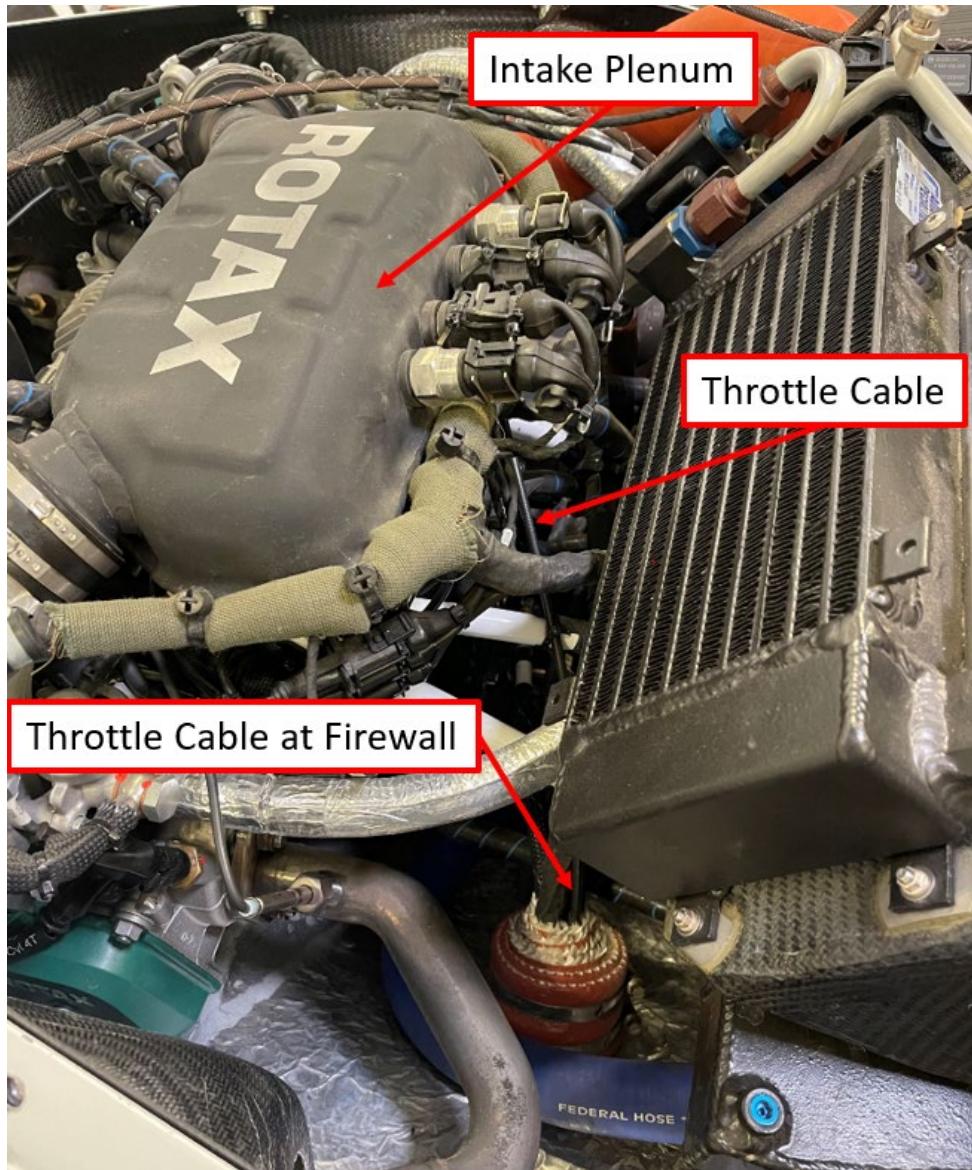


Figure 1 Throttle Cable Location

## SERVICE BULLETIN

SB-022323-C

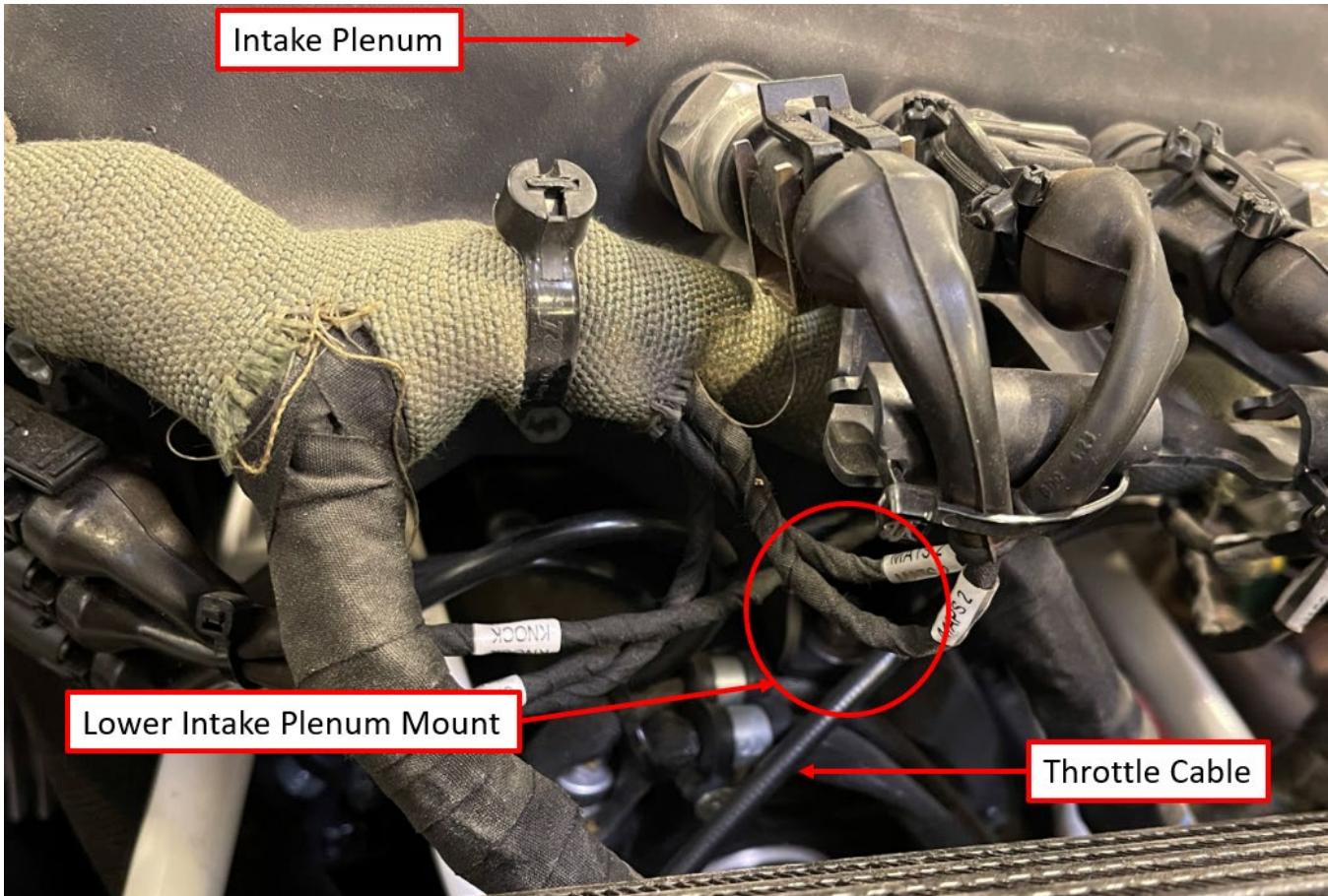
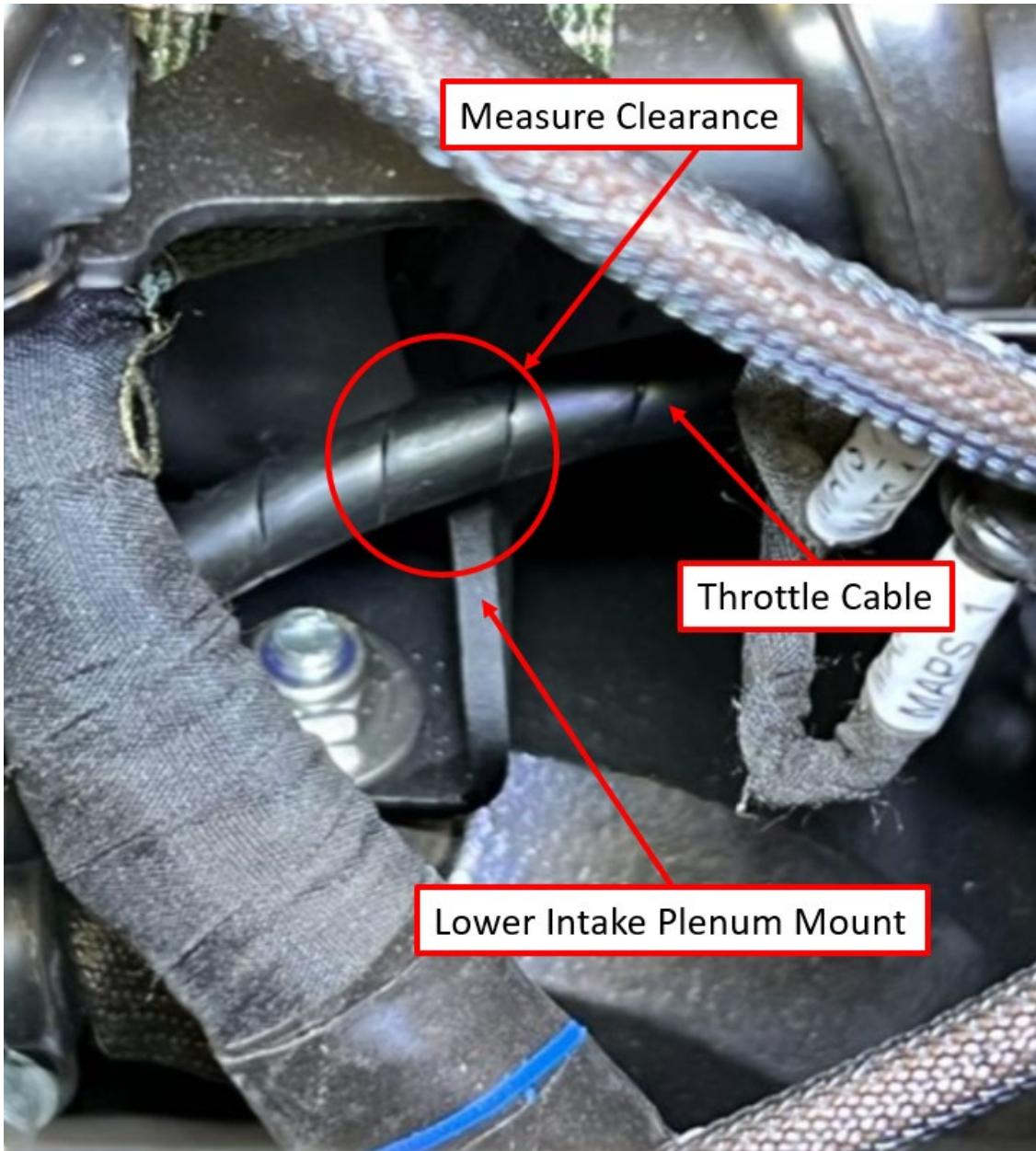


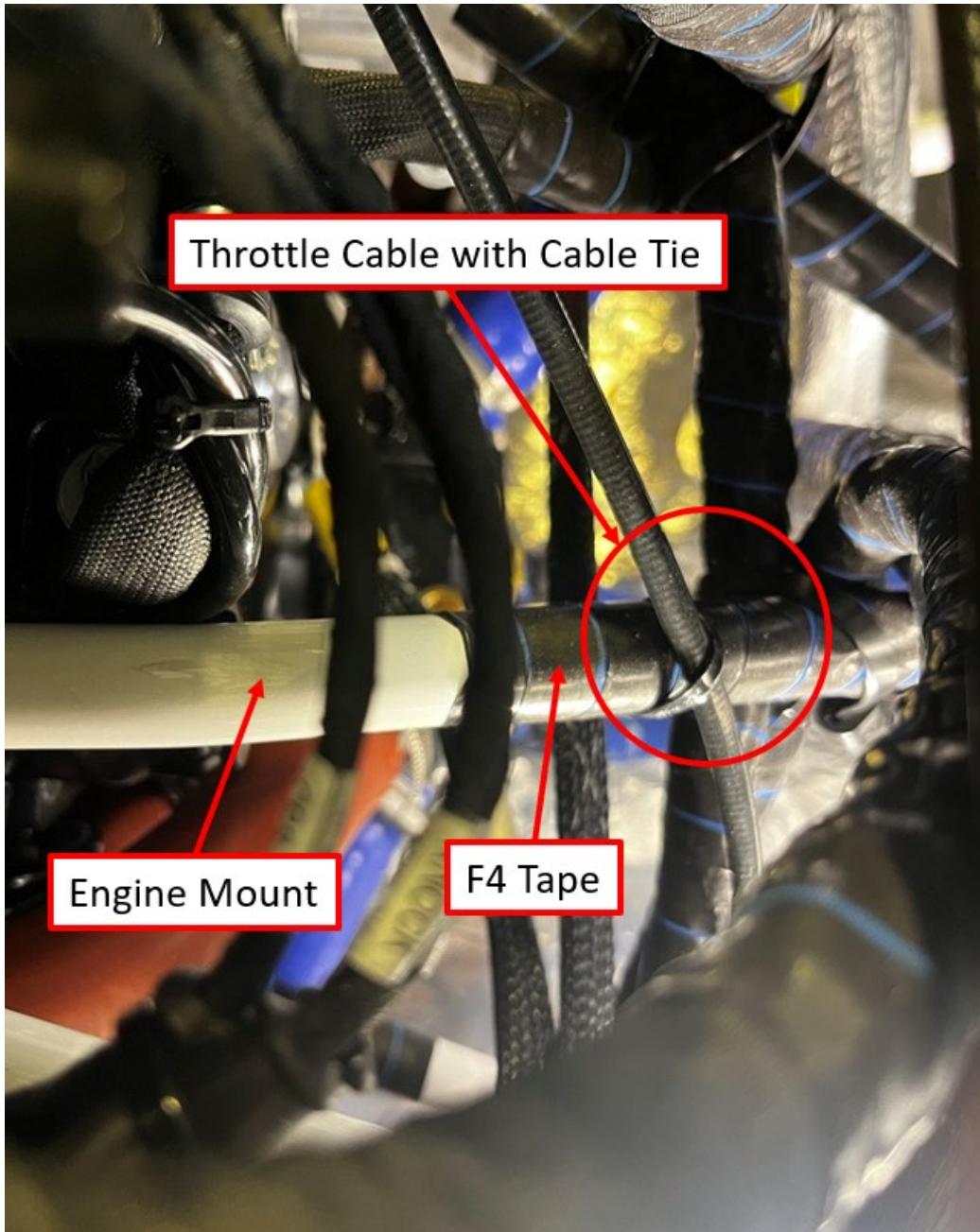
Figure 2 Throttle Cable at Lower Intake Plenum Mount

3. Measure the clearance between the throttle cable and the lower intake plenum mount.
  - a. There should be a minimum of  $\frac{1}{4}$ " clearance.
  - b. See Figure 3.
4. Verify that there are two cable ties securing the throttle cable to the engine mount.
  - a. See Figure 5.
5. If there is less than  $\frac{1}{4}$ " clearance between the throttle cable and lower intake plenum mount *or* only **one** cable tie is securing the throttle cable to the engine mount, then proceed to the "Repair" section of this service bulletin.
6. If there is a  $\frac{1}{4}$ " or greater clearance between the throttle cable and lower intake plenum mount *and* **two** cable ties securing the throttle cable to the engine mount, then proceed to the "Logbook Entry" section of this service bulletin.

**NOTE:** There must be **two** cable ties securing the throttle cable to the engine mount. If there is a  $\frac{1}{4}$ " or greater clearance and only one cable tie securing the throttle cable to the engine mount, then another cable tie must be installed as shown in Figure 5.

**SERVICE BULLETIN****SB-022323-C***Figure 3 Clearance at the Intake Plenum Mount***Repair**

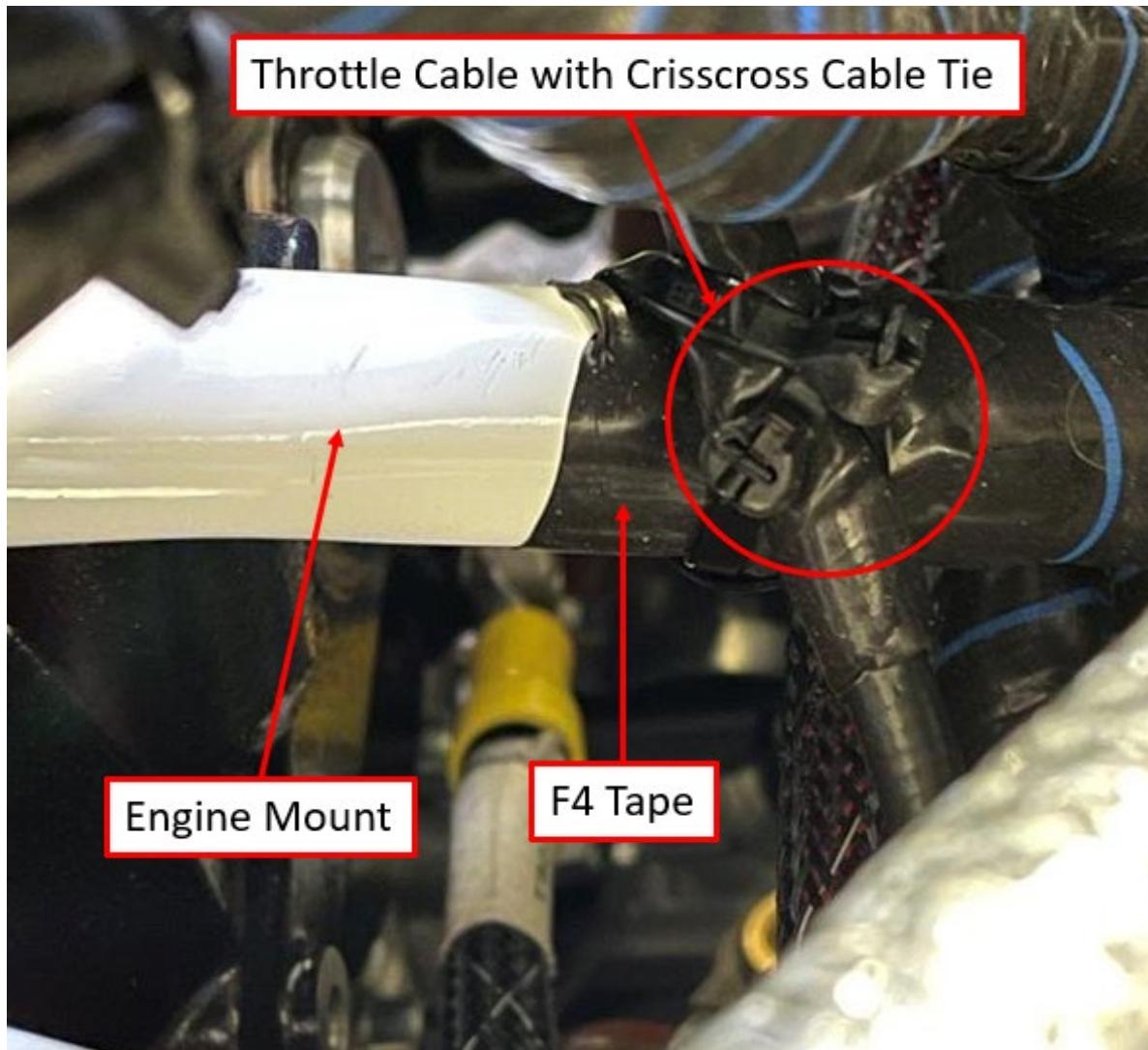
1. Remove the cable tie to the throttle cable and engine mount.
  - a. See Figure 4.

**SERVICE BULLETIN****SB-022323-C***Figure 4 One Throttle Cable Tie at Engine Mount*

2. Verify F4 Tape is installed on the engine mount where the throttle cable is intended to be secured.
  - a. Install F4 tape if there is none where the throttle cable is intended to be secured.
3. Re-locate the throttle cable, along the engine mount, until a  $\frac{1}{4}$ " or greater clearance is achieved between the throttle cable and lower intake plenum mount.
4. Ensure that the throttle cable remains over the F4 tape on the engine mount.

**SERVICE BULLETIN****SB-022323-C**

5. Install F4 tape onto the throttle cable where the throttle cable will be secured to the engine mount.
6. Tightly secure the repositioned F4 wrapped throttle cable onto the F4 wrapped engine mount with two TY24MX cable ties in a crisscross pattern.
  - a. See Figure 5.

*Figure 5 Two Throttle Cable Ties at Engine Mount*

7. Verify no kinks in the throttle cable.
8. Verify smooth range of motion for the throttle.
9. Verify clearance between the throttle cable and the lower intake plenum mount remains  $\frac{1}{4}$ " or greater.



2141 ICON Way, Vacaville, CA 95688 - Tel: 707.564.4000 – [www.iconaircraft.com](http://www.iconaircraft.com)

## SERVICE BULLETIN

**SB-022323-C**

10. Verify new throttle cable position does not cause potential chafing condition against any other component within engine bay.
11. If  $\frac{1}{4}$ " clearance is not achieved or if potential chafing condition is found elsewhere with new routing of throttle cable, repeat Repair steps 1 thru 9 until required clearance is maintained and chafing condition is alleviated.
12. Install the engine cowling.
  - a. ICON Aircraft Maintenance Manual: Install Engine Cowlings ([100335](#)).
13. Make a logbook entry in accordance with the "Logbook Entry" section of this service bulletin.

### **Logbook Entry:**

*If there is a  $\frac{1}{4}$ " or greater clearance between the throttle cable and lower intake plenum mount and two cable ties securing the throttle cable to the engine mount:*

"I hereby certify the inspection has been completed in accordance with Service Bulletin (SB-022323-C, Throttle Cable Chafing) and all the referenced documents. Potentially unclear procedures have been clarified with ICON Aircraft. (ref. FAA Exemption 10829D)".

*If there is less than a  $\frac{1}{4}$ " clearance between the throttle cable and lower intake plenum mount or if there is only one cable tie securing the throttle cable to the engine mount:*

"I hereby certify the inspection and repair has been completed in accordance with Service Bulletin (SB-022323-C, Throttle Cable Chafing) and all the referenced documents. Potentially unclear procedures have been clarified with ICON Aircraft. (ref. FAA Exemption 10829D)".

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  
(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.