



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

SERVICE BULLETIN

SB-022323-A

ID NUMBER & REVISION: SB-022323-A
SUBJECT: Throttle Cable Chaffing
RELEASE DATE: 13 March 2023
EFFECTIVE DATE: 13 March 2023
SUPERSEDES NOTICE: N/A
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.
TIME OF COMPLIANCE: At the next service interval
REVISION HISTORY: A Initial Release

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.

ASSEMBLIES AND PARTS:

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

IF APPLICABLE, SERVICE KITS:

KIT NUMBER	CONTENT PARTS	DESCRIPTION	QUANTITY
N/A			

INSTRUCTIONS:

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

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Inspection:

1. Remove the engine cowlings.
 - 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.

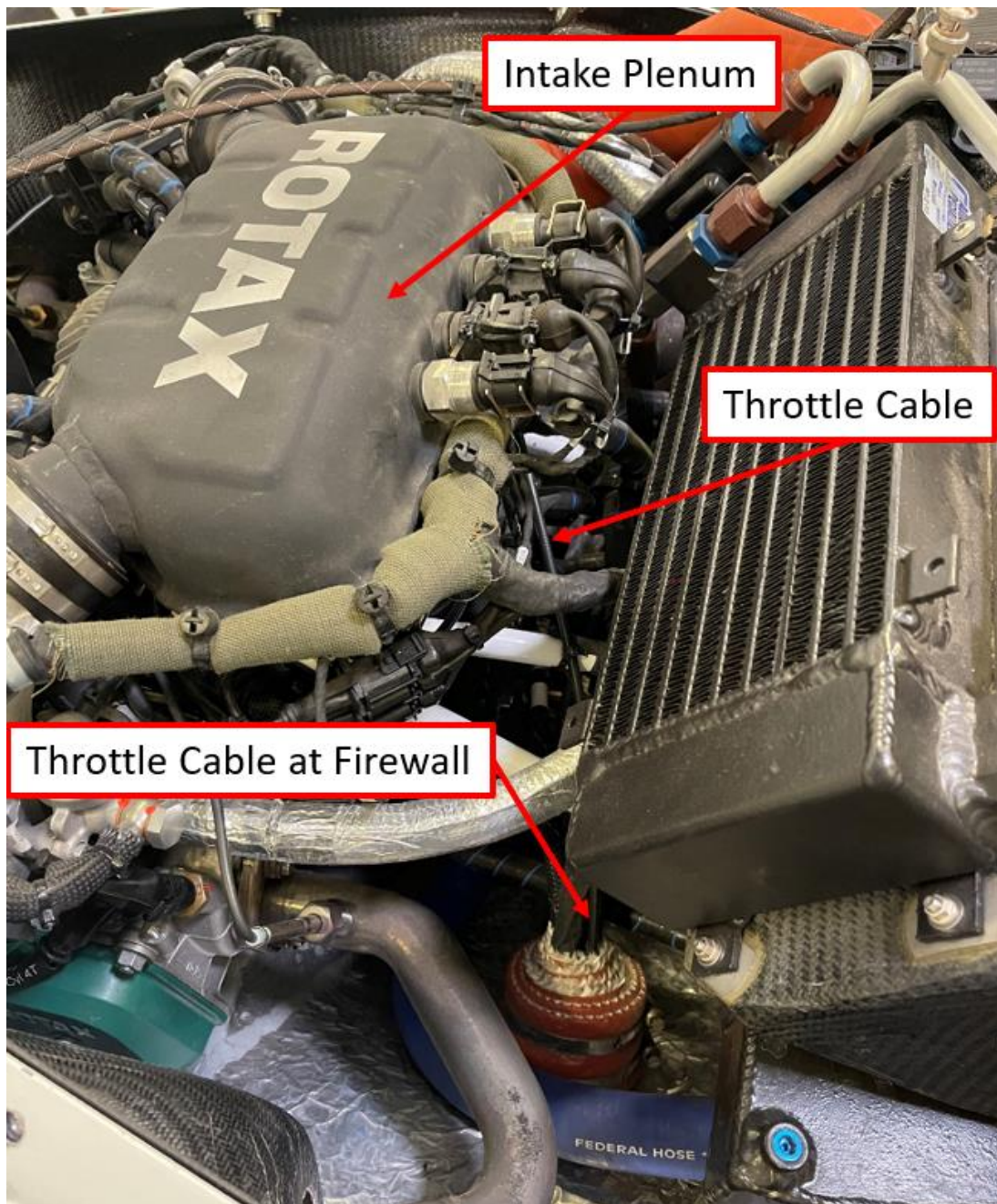


Figure 1 Throttle Cable Location

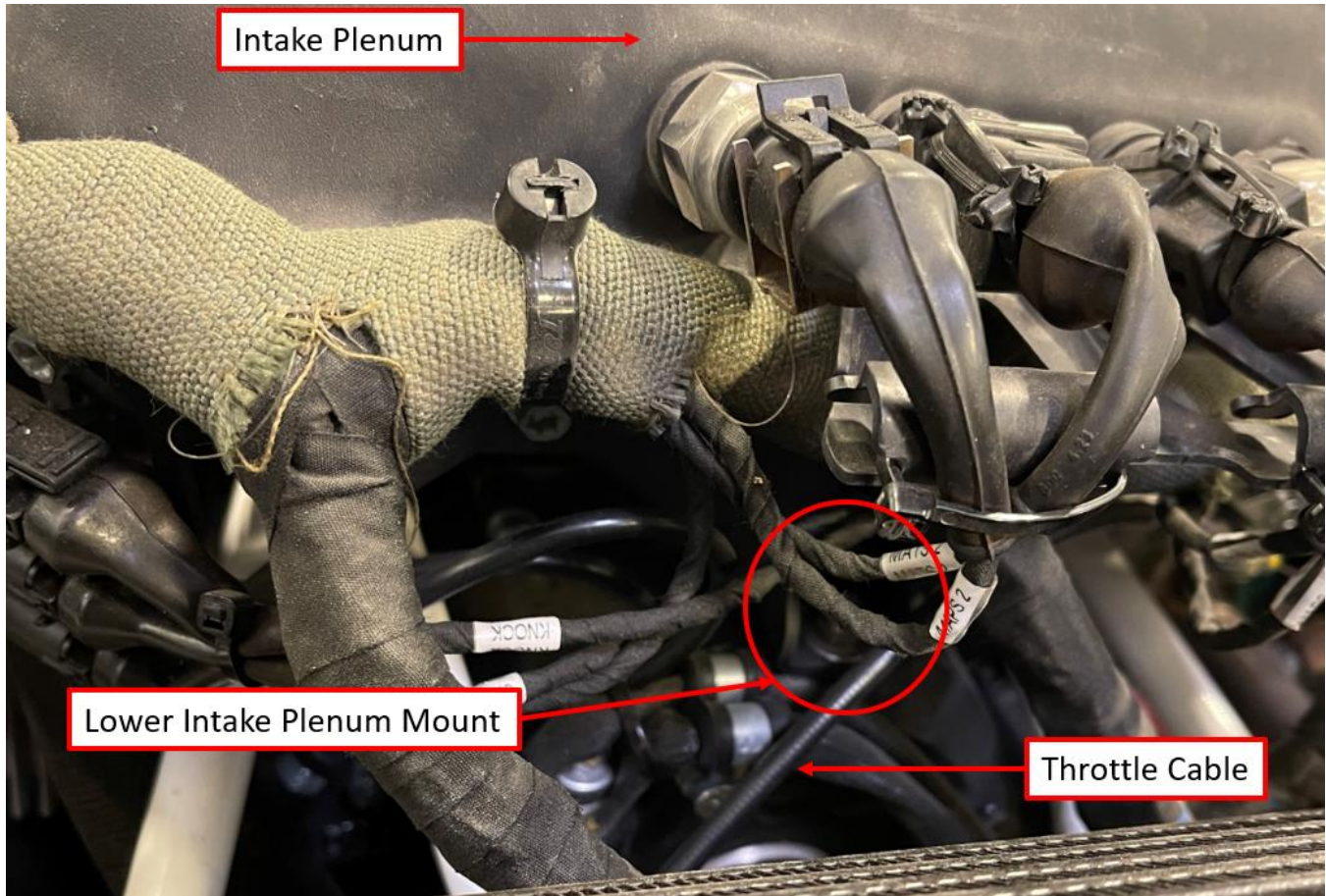
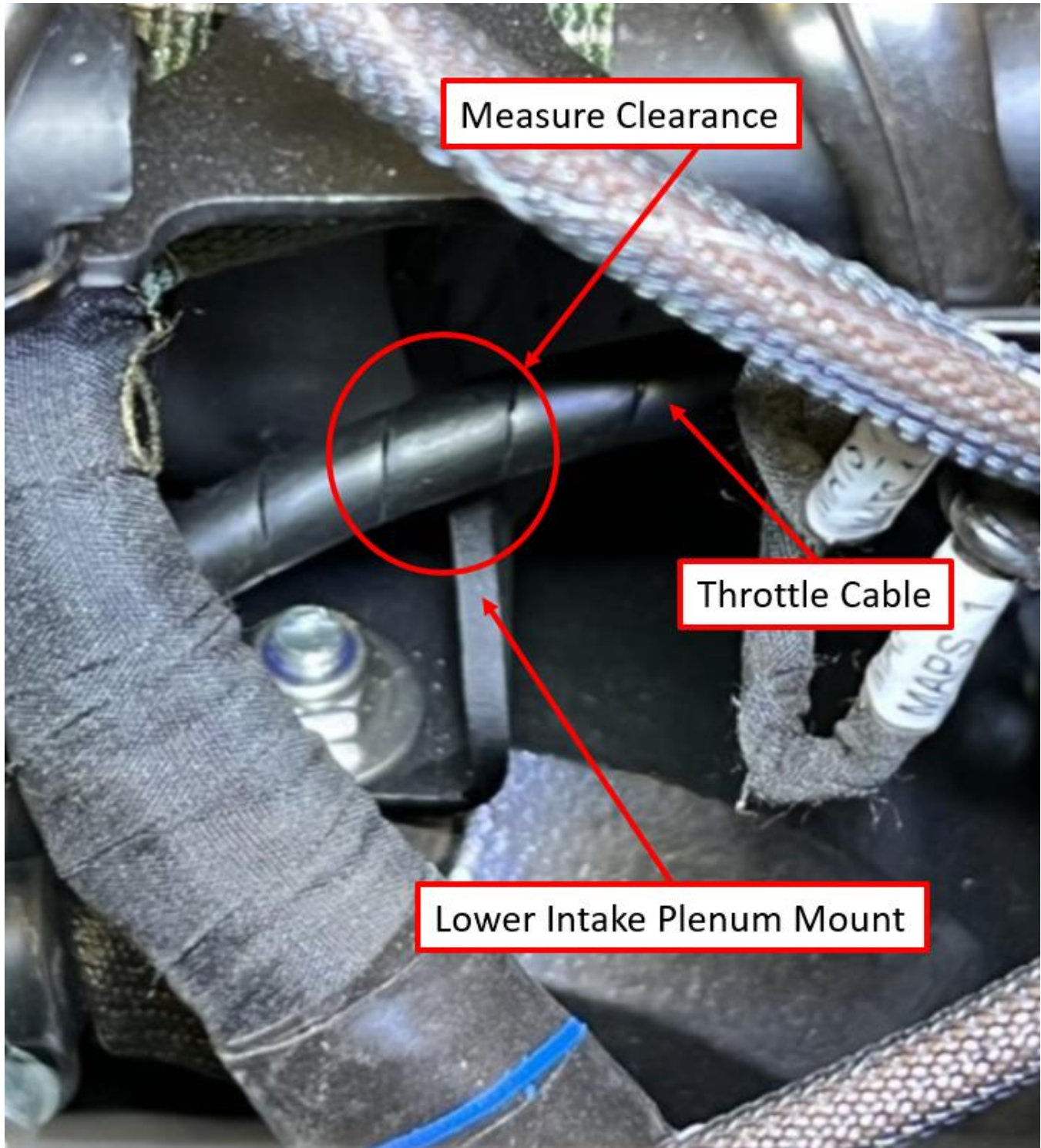
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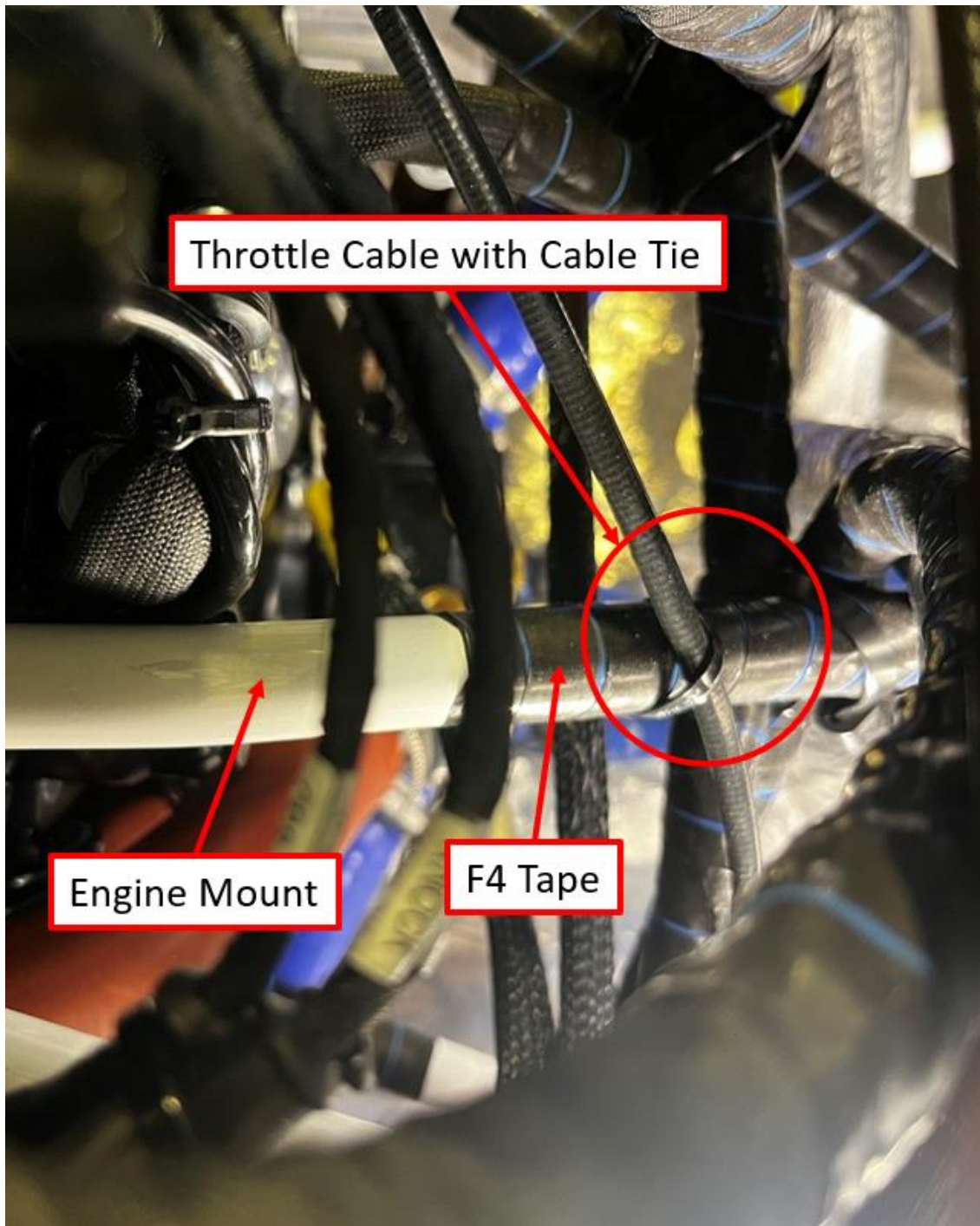
Figure 2 Throttle Cable at Lower Intake Plenum Mount

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. If the clearance is greater than $\frac{1}{4}$ ", proceed to steps 12 and 13 of the "Repair" section in this Service Bulletin.
5. If the clearance is less than $\frac{1}{4}$ ", proceed to step 1 of the "Repair" section of this Service Bulletin.

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

SERVICE BULLETIN**SB-022323-A****Repair**

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

*Figure 4 Throttle Cable Tie at Engine Mount*



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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.
5. Install F4 tape onto the throttle cable where the throttle cable will be secured to the engine mount.
6. Secure the repositioned F4 wrapped throttle cable onto the F4 wrapped engine mount with two TY23MX cable ties in a crisscross pattern.
 - a. See Figure 5.

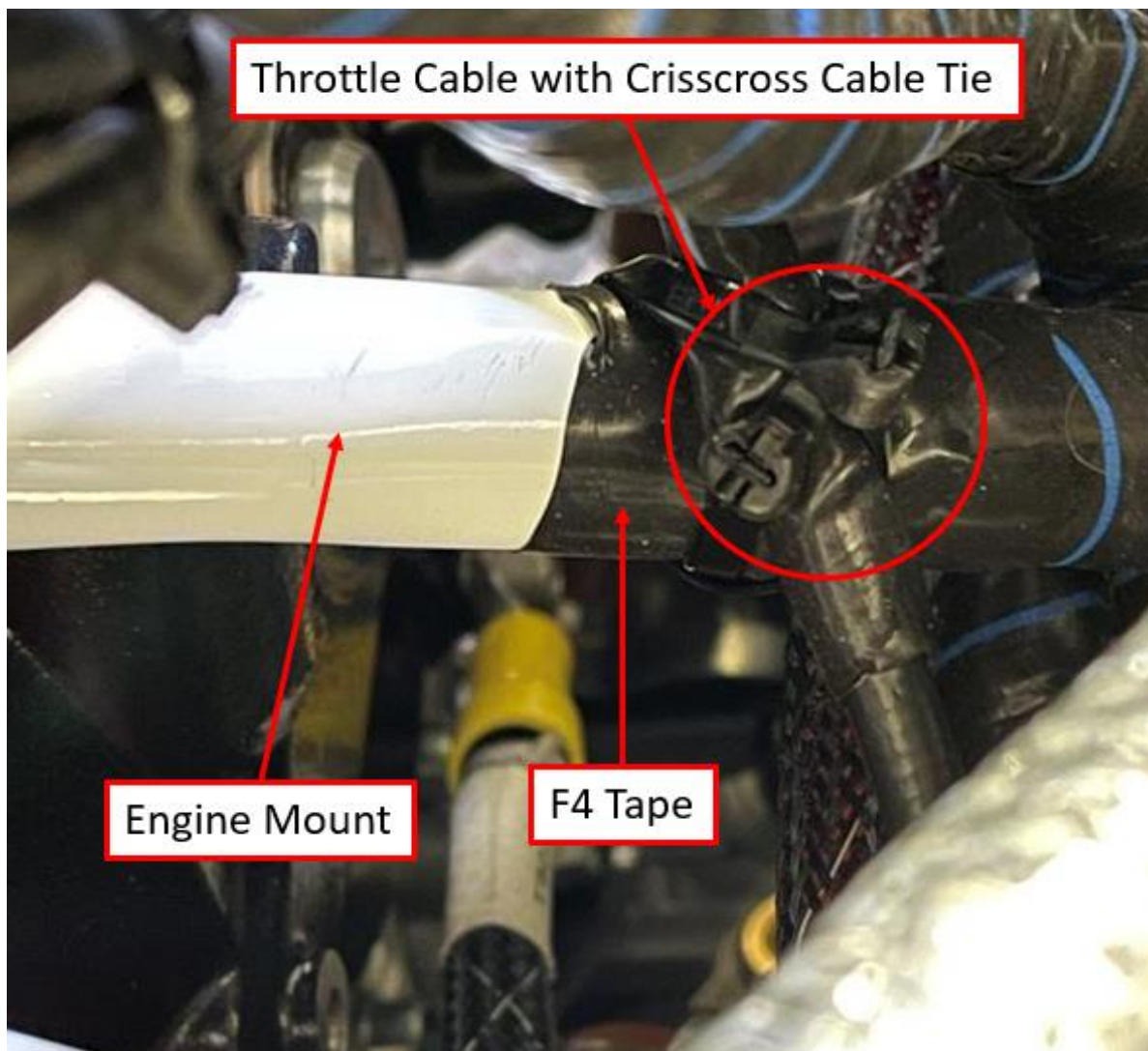


Figure 5 Crisscross Cable Tie Mount



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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 ¼" or greater.
10. Verify new throttle cable position does not cause potential chaffing condition against any other component within engine bay.
11. If ¼" clearance is not achieved or if potential chaffing condition is found elsewhere with new routing of throttle cable, repeat Repair steps 1 thru 9 until required clearance is maintained and chaffing condition is alleviated.
12. Install the engine cowl.
 - a. ICON Aircraft Maintenance Manual: Install Engine Cowlings ([100335](#)).
13. Make a logbook entry, indicating that this Service Bulletin has been complied with.

Make the following logbook entry:

If no repair was performed:

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

If a repair was performed:

"I hereby certify the inspection and repair has been completed in accordance with Service Bulletin (SB-022323-A, Throttle Cable Chaffing) 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

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