



**Cub Crafters, Inc. Considers Compliance Mandatory**

**EFFECTIVE DATE:** This SERVICE BULLETIN is effective **April 29, 2011**

**SUBJECT:** THROTTLE CABLE SHEATH SECURITY

**MODELS AFFECTED:** CC11-100 & CC11-160, Serial Numbers 00002 thru 00112

**COMPLIANCE TIME:** At the Next Maintenance Action. (Not to Exceed 25 Hours)

**CONTINUED INSPECTION:** Inspect at Condition Inspection

**PURPOSE & HISTORY:** Cub Crafters recently had a single incidence of throttle cable slippage between the exterior cable sheath and the retaining mechanism located on the cockpit end of the throttle cable. This slippage caused a lack of throttle response. This Service Bulletin provides options to either add additional securing measures to prevent the cable from slipping or to replace the existing throttle cable set up with a newer style.

**SOLUTION:** Perform either of the following:

**Option 1:** Modify existing throttle cable installation.  
(pages 2-6)

- or -

**Option 2:** Remove existing throttle cable and replace with new style. (pages 7-14)  
*The new style of throttle cable is provided as an alternative due to customer interest in a more substantial cable. Since both options require the interior panel to be pulled away from the fuselage, this would be an opportune time for those seeking to upgrade.*

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**OPTION 1 INSTRUCTIONS:**

PARTS LIST:	PART NUMBER	DESCRIPTION	QTY
SUPPLIED	TC5011-001	CABLE CLAMP BRACKET	1
	RM4905-002	3M ACRYLIC FOAM TAPE	4'
AVAILABLE LOCALLY	AN3-3A	BOLT	2
	AN365-1032A	NUT	1
	AN960-10L	FLAT WASHER, THIN	2
	MS20995C32	S.S. SAFETY WIRE, .032"	6"

1. Install cover on landing gear to protect fabric.
2. Install tape on fuselage, below the panel seam. See Figure 1.



**Figure 1 - Tape Installation on Fuselage**

3. From outside the aircraft, run a putty knife between the top lip of panel and the fuselage along the length of the panel to break bond of double sided tape. **Take care not to fracture interior panel.**

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4. Remove fuel selector, stop, and panel, as indicated below in Figure 2.

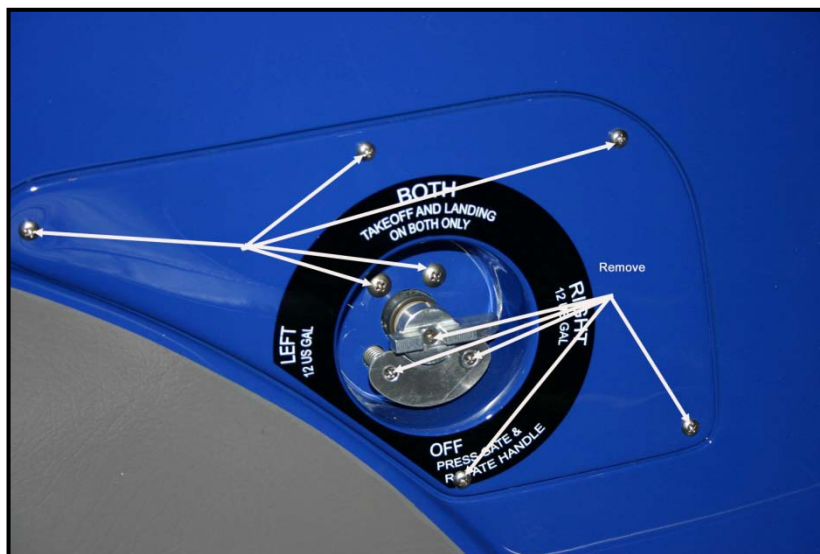
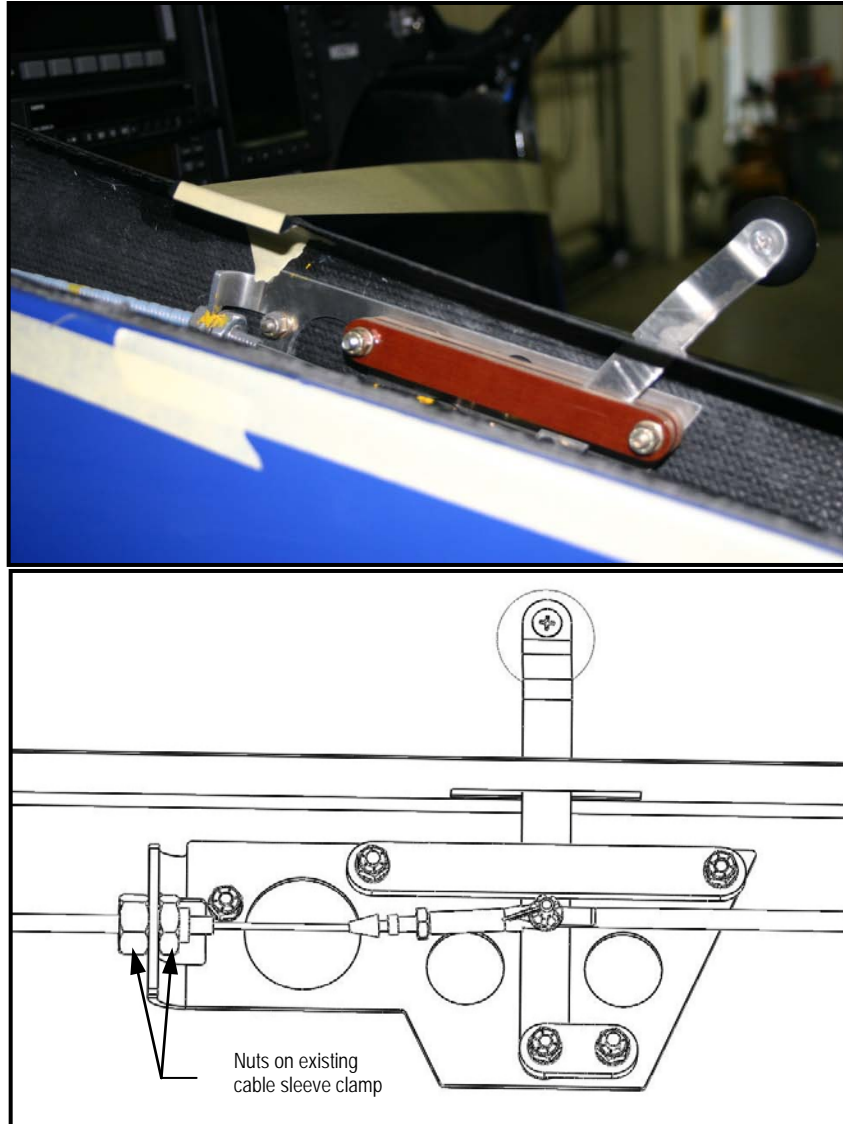


Figure 2 - Fuel Selector Removal

5. Ensure front of panel will clear any hardware. **Tape panel, if necessary, to protect finish.** Push panel inboard to expose Throttle Assembly. Carefully tape to hold panel in place. See Figure 3.

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**Figure 3 - Throttle Assembly Exposed**

6. Ensure nuts of existing cable sleeve clamp are tight. See Figure 3.

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7. Install Cable Clamp Bracket (TC5011-001) around throttle cable sleeve and against compression nut. See Figure 6.

\*Before installing Cable Clamp Bracket, ensure it has been crimped as shown. If clamp is not crimped, lightly crimp with side cutters.

See Figure 4.

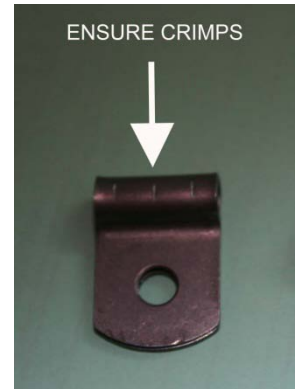


Figure 4 - Clamp Crimps

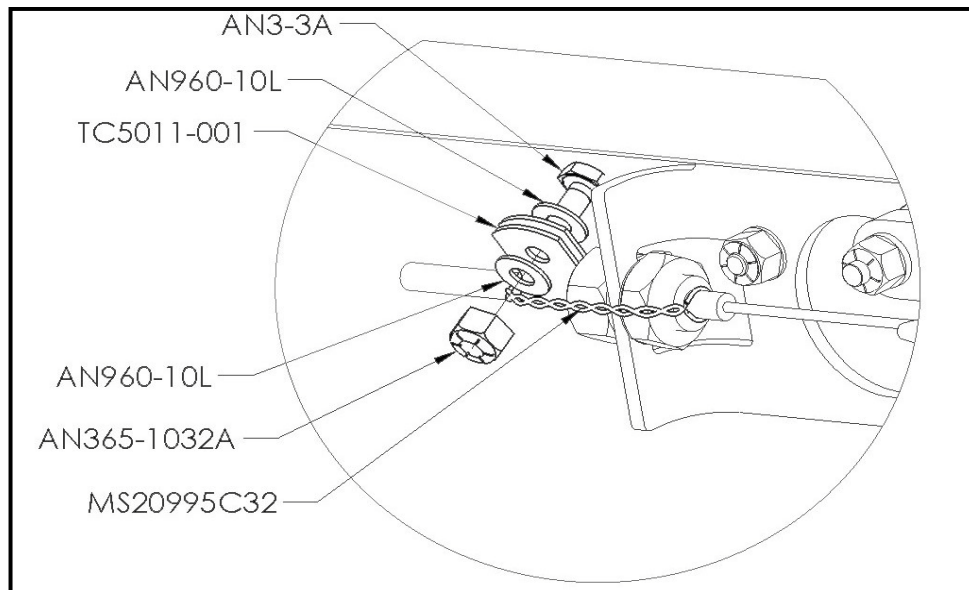


Figure 5 - Installation of Cable Clamp Bracket

8. Secure Cable Clamp Bracket with bolt, washers, and nut. See Figure 5.

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9. Install safety wire around cable sleeve; forward of cable clamp bracket and aft of cable sleeve clamp. Double wrap the safety wire around the cable sleeve, forward of clamp. See Figure 6.



**Figure 6 - Safety Wire Installation**

10. Move throttle handle forward and backward to ensure throttle lever still has free range of movement.

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11. To remove double-sided tape from fuselage: Install a drill bit (approximately 1/8" bit) into a cordless drill. Turn the drill sideways and turn slowly to catch and remove the tape. See Figure 7.



**Figure 7 - Tape Removal from Fuselage**

12. Clean surfaces using isopropyl alcohol. Let dry. Apply foam tape (RM4905-002); centering the tape on the surface. LEAVE RED PLASTIC BACKING ON TOP OF TAPE UNTIL PANEL IS IN PLACE.
13. Locate panel in original position, lining up the edge of the panel with the fuselage. Remove red plastic backing and press down firmly along top edge.
14. Re-install fuel selector assembly.
15. Test and confirm throttle functions properly.
16. Make a note in the aircraft logbook that Service Bulletin No. 00013 Option 1 has been complied with.



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**OPTION 2 INSTRUCTIONS:**

PARTS LIST:	PART NUMBER	DESCRIPTION	QTY
SUPPLIED	MS35489-14	GROMMET	1
	SP58001-001**	BEARING ROD END	1
	SC58110-001**	THROTTLE CABLE CLAMP ASSEMBLY	1
	SC50005-001*	MIXTURE BRACKET	1
	SP58011-001*	THROTTLE CABLE, 62"	1
	SP58011-003**	THROTTLE CABLE, 60"	1
	SC58101-001	THROTTLE LEVER PLATE	1
	RM4905-002	3M ACRYLIC FOAM TAPE	4'
AVAILABLE LOCALLY	AN960-10**	FLAT WASHER	1
	RTV167	GRAY ADHESIVE SILICONE SEALANT	AR
	AN3-7**	BOLT	1
	AN525-10R9	SCREW	1
	AN960-10L	FLAT WASHER THIN	1
	AN365-1032A	NUT, NYLON LOCK	1

*\*Required with 0-200 Continental engines only*

*\*\*Required with CC340 (CCI) or 0-320 (Lycoming) engines only*



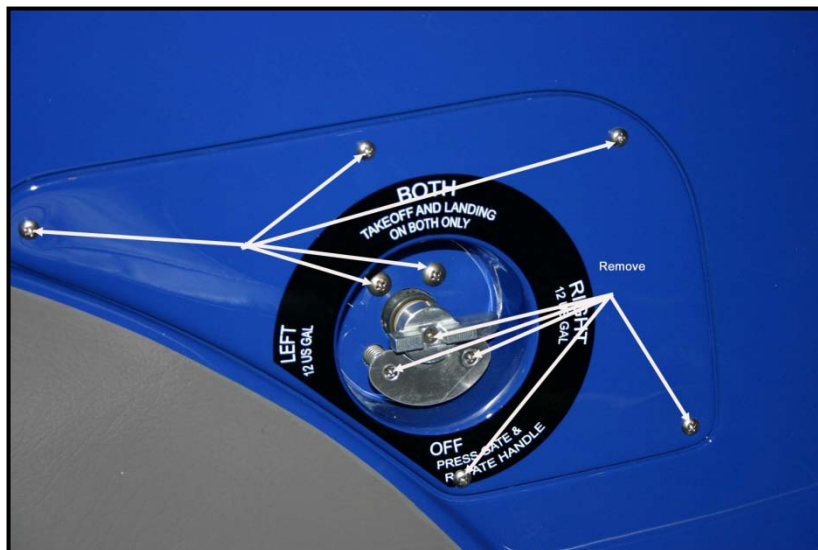
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1. Install cover on landing gear to protect fabric.
2. Install tape on fuselage, below the panel seam. See Figure 8.



**Figure 8 - Fuselage Tape Installation**

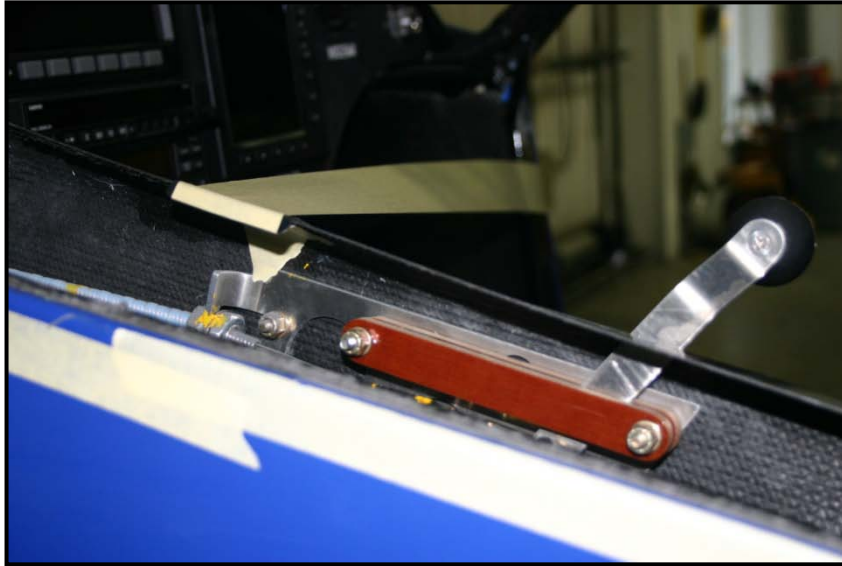
3. From outside the aircraft, run a putty knife between the top lip of panel and the fuselage along the length of the panel to break bond of double sided tape. **Take care not to fracture interior panel.**
4. Remove fuel selector, stop, and panel as indicated below. See Figure 9.



**Figure 9 - Fuel Selector Removal**

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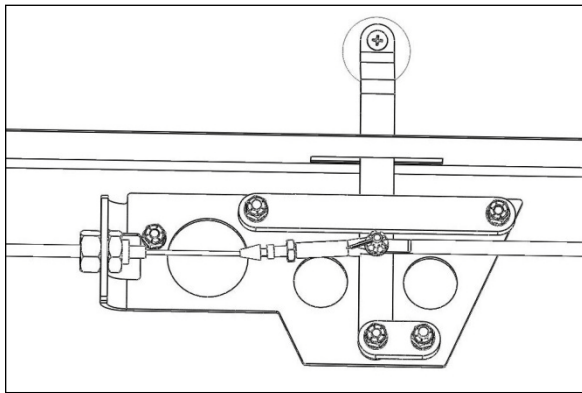
5. Ensure front of panel will clear any hardware. **Tape panel, if necessary, to protect finish.** Push panel inboard to expose Throttle Assembly Carefully tape to hold panel in place. See Figure 10.



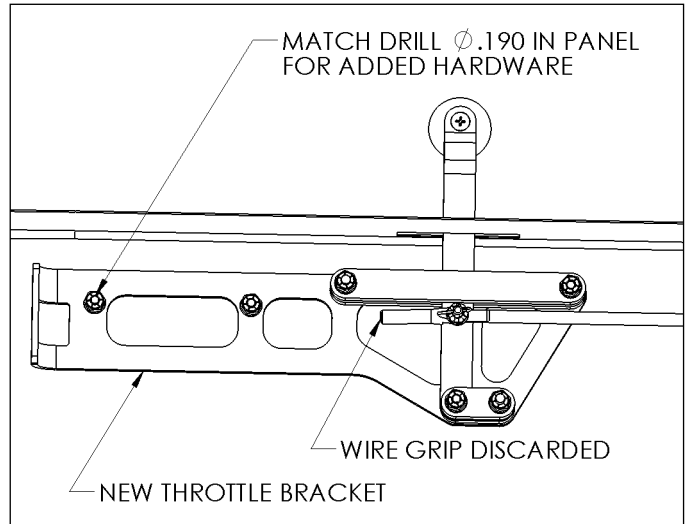
**Figure 10 - Throttle Assembly Exposed**

6. Remove existing throttle bracket and replace with new bracket SC58101-001. (Installation of new bracket requires another hole to be match drilled in the panel, and extra hardware. The wire grip for securing the cable wire to the rod end may be discarded.) See Figure 11.

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(Old Bracket)



(New Bracket)

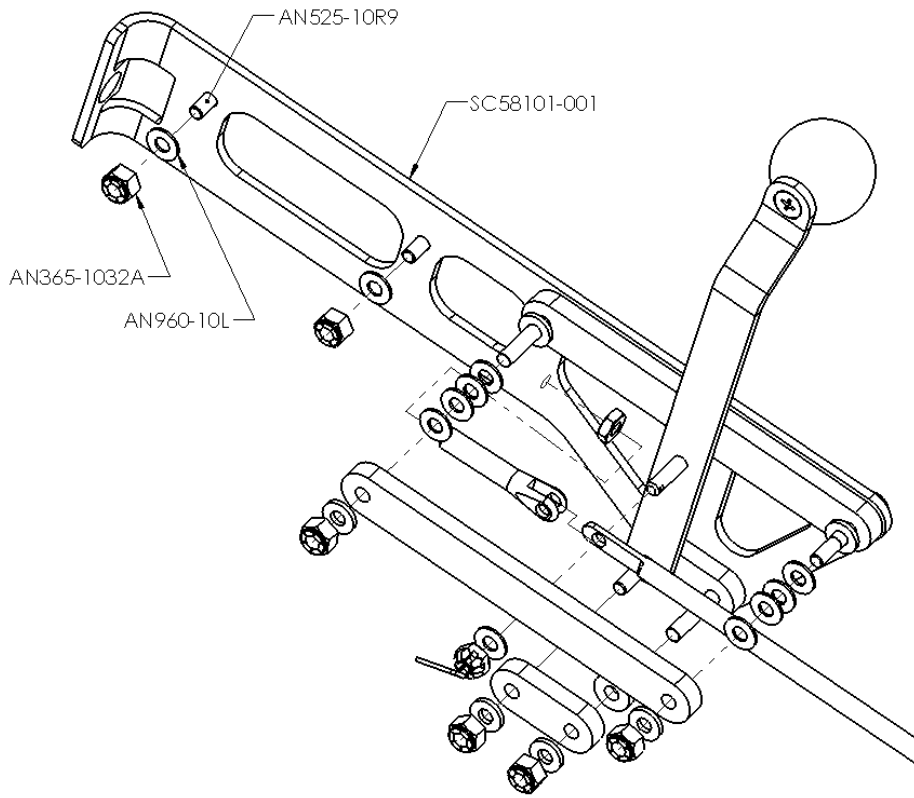
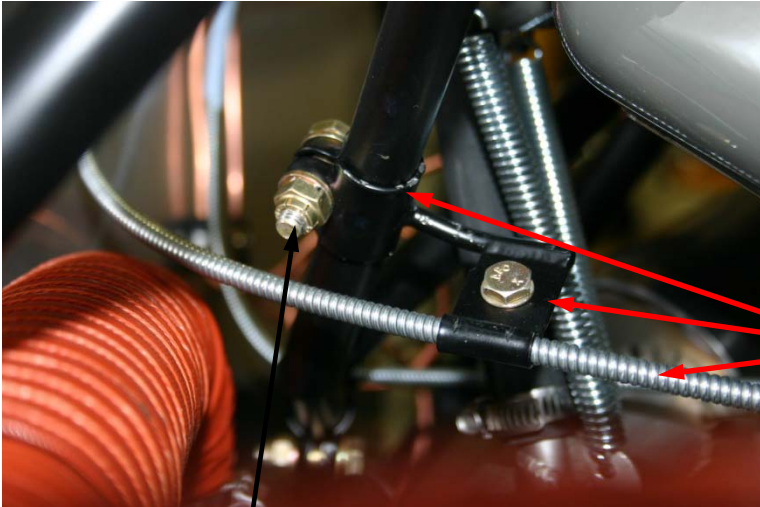


Figure 11 - New Throttle Bracket Installation

7. Remove Engine Cowling.

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- 8. Remove existing mounts for securing throttle cable to underside of engine and disconnect throttle cable. See Figure 12.



REMOVE EXISTING MOUNT, CLAMP, AND THROTTLE CABLE

RETAIN MOUNTING HARDWARE FOR USE WITH NEW THROTTLE CABLE CLAMP ASSEMBLY.

**\*\*CC340 VIEW**



RETAIN CLAMP AND HARDWARE FOR MOUNTING MIXTURE CABLE.

REMOVE EXISTING MIXTURE BRACKET, CABLE CLAMP AND THROTTLE CABLE.

RETAIN MOUNTING HARDWARE FOR USE WITH NEW MIXTURE BRACKET.

**\*0-200 VIEW**

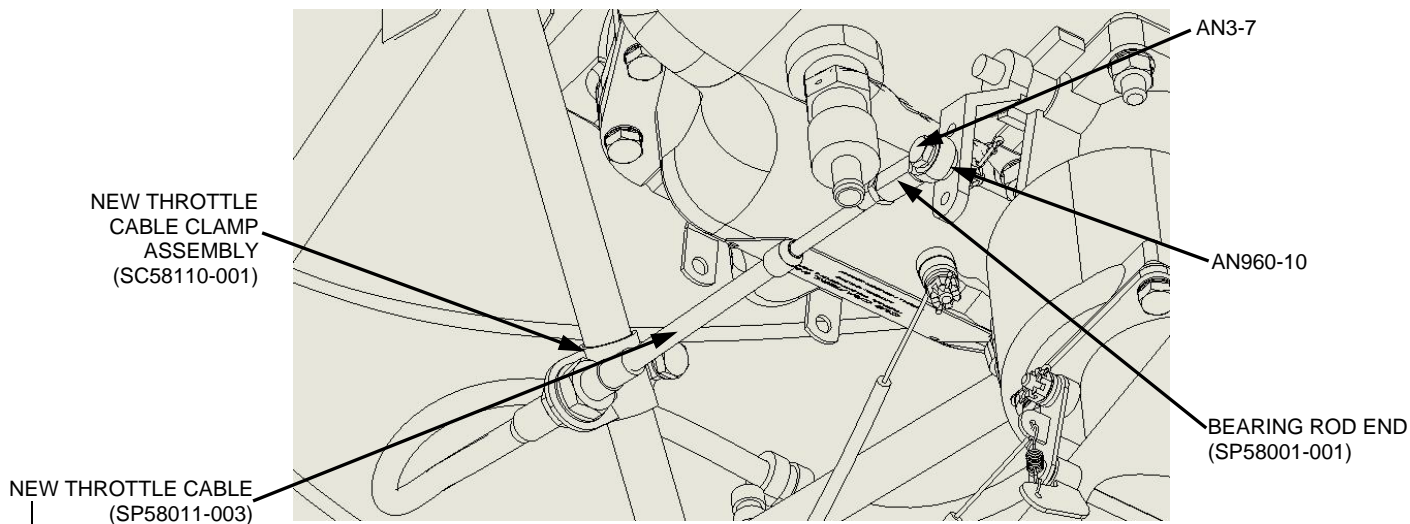
**FIGURE 12 - Disconnection of old Throttle Cable**

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**NOTE:**

\*\*On CC340 engines, remove the rod end mounted to the throttle arm and replace with SP58001-001. Install AN960-10 (washer) between the throttle arm and rod end for required clearance. (See Figure 13 for proper mounting)

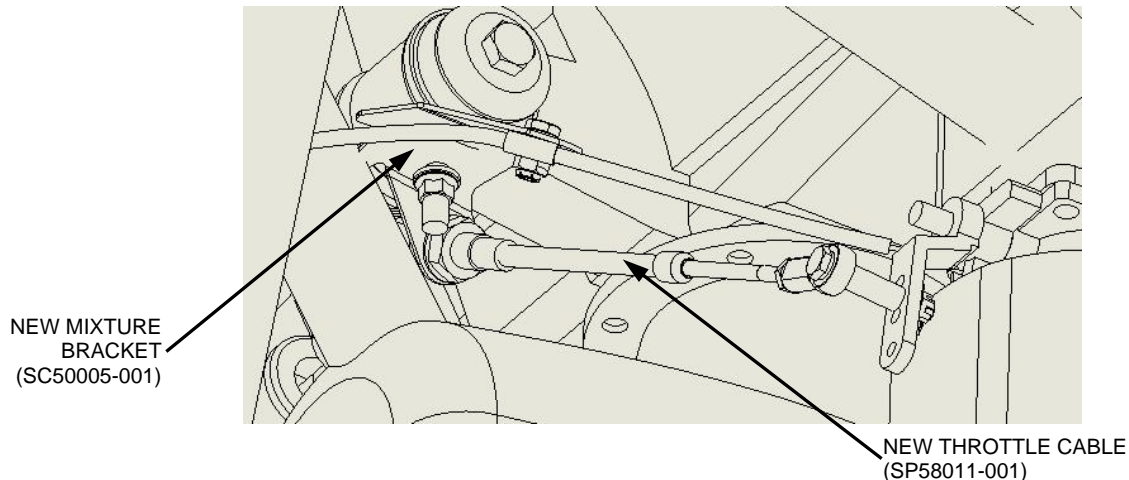
9. Replace existing mount for throttle cable with appropriate new mount. (New mounts can be attached using hardware from old cable mounts)



**\*\*Installation for CC340 and 0-320 Engines**

**NOTE:**

\*Mixture cable on 0-200 engines will need to be detached from old mixture bracket, and reattached to new one.

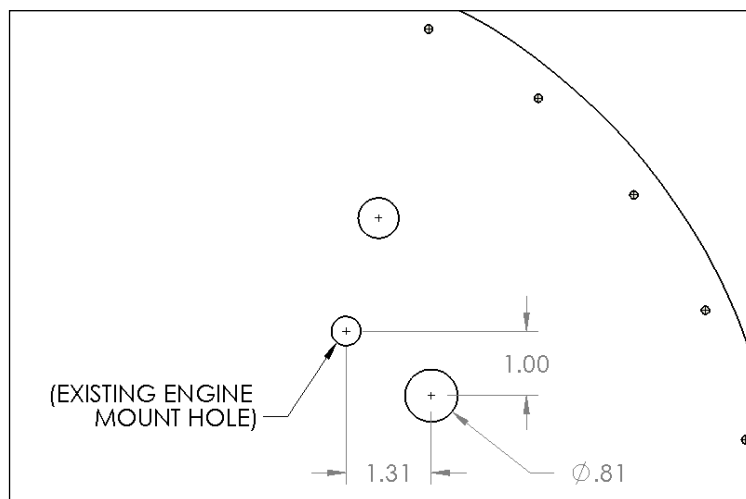


**\*Installation for 0-200 Engines**

**FIGURE 13 - Throttle Cable Installation on Engine**

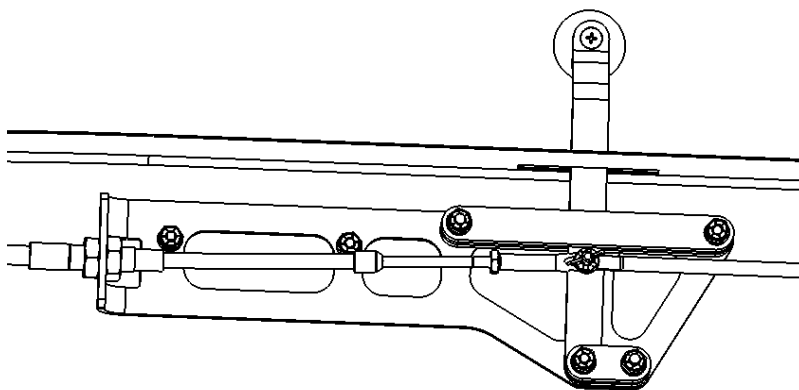
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10. Screw end of cable assembly into jam nut and rod end. (Throttle arm may need to be adjusted to permit full range of motion)
11. Drill 0.81" diameter hole through firewall, as shown in Figure 14.



**Figure 14 - Firewall Hole (looking aft)**

12. Install grommet MS35489-14 in .81" diameter hole in firewall. Route throttle cable through grommet. (Nuts on end of throttle cable assembly must be removed to allow cable to fit through grommet.)
13. Route throttle cable through and attach to hole in new throttle bracket.
14. Screw end of cable assembly into rod end and jam nut. See Figure 15.



**Figure 15 - Throttle Cable Routing and Attachment to Throttle Bracket**

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15. Move throttle handle forward and backward to ensure throttle lever still has free range of movement and full travel.
16. Double check all new nuts and bolts for tightness.
17. To remove double-sided tape from fuselage: Install a drill bit (approximately 1/8" bit) into a cordless drill. Turn the drill sideways and turn slowly to catch and remove the tape. See Figure 16.



**Figure 16 - Tape Removal from Fuselage**

18. Clean surfaces using isopropyl alcohol. Let dry. Apply foam tape (RM4905-002), centering the tape on the surface. **LEAVE RED PLASTIC BACKING ON TOP OF TAPE UNTIL PANEL IS IN PLACE.**
19. Locate panel in original position, lining up the edge of the panel with the fuselage. Remove red plastic backing and press down firmly along top edge.
20. Re-install fuel selector assembly.
21. Fill grommet with RTV167 silicone sealant.
22. Test and confirm throttle functions properly.
23. Reinstall cowling.
24. Make a note in the aircraft logbook that Service Bulletin No. 00013 Option 2 has been complied with.



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If you are no longer in possession of this aircraft, please forward this information to the present owner/operator and notify Cub Crafters, Inc. of the address of the current owner to:

Cub Crafters, Inc.  
1918 S. 16<sup>th</sup> Avenue  
Yakima, WA 98903  
1-877-484-7865 or 1-509-248-9491  
[support@cubcrafters.com](mailto:support@cubcrafters.com)

Please include the aircraft registration number, serial number, current name, and address of the owner and/or operator.