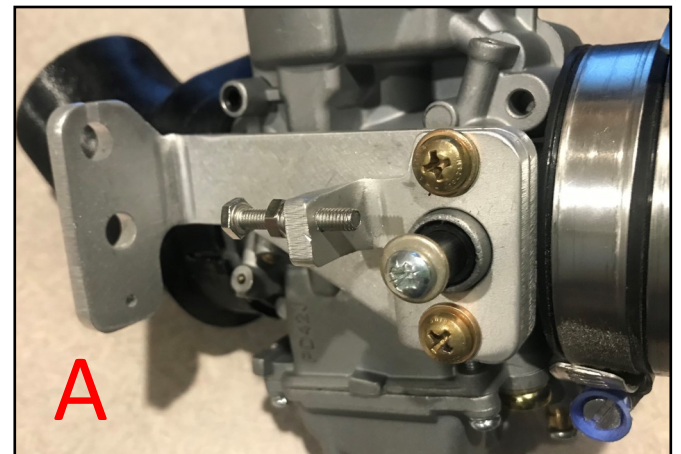


**Overview:** For single lever throttle installation with the Gen4 carb (non-bing) the use of a different arm is required to achieve acceptable cockpit throttle travel.

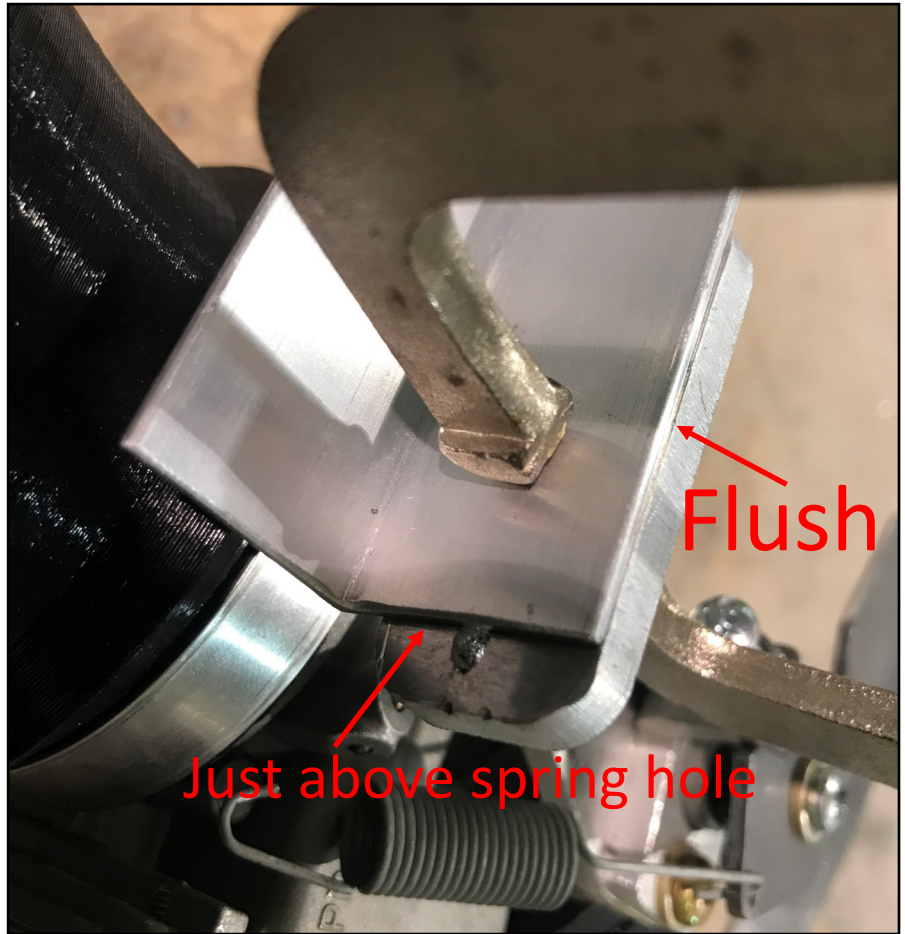
**Objective:** Installation of the Gen4 carb throttle arm extension kit.

**Part Required:** 1 throttle arm extension kit consisting of: 1"by1" 0.0625" angle aluminum, 2 of AN5-6a bolts, 2 of AN965-516 washers, 2 of AN363-5 nuts, 1 of 0.25" cable end swivel. *NOTE: The cable end adjuster and nuts shown are part of the single throttle kit and not included with this kit.*

1. The components in your kit should look like the picture shown here. Some light fabrication will be required to the supplied angle aluminum to move the cable attach placement from the factory position.
2. Remove the 2 gold colored screws from the stock bracket shown in picture A. Do not throw these away or the bracket, we are simply removing them to make fabrication work easier. Set aside until later. Your carb should look like pic B once removed. *NOTE: stock throttle arm already removed from shaft (silver screw) for clarity.*

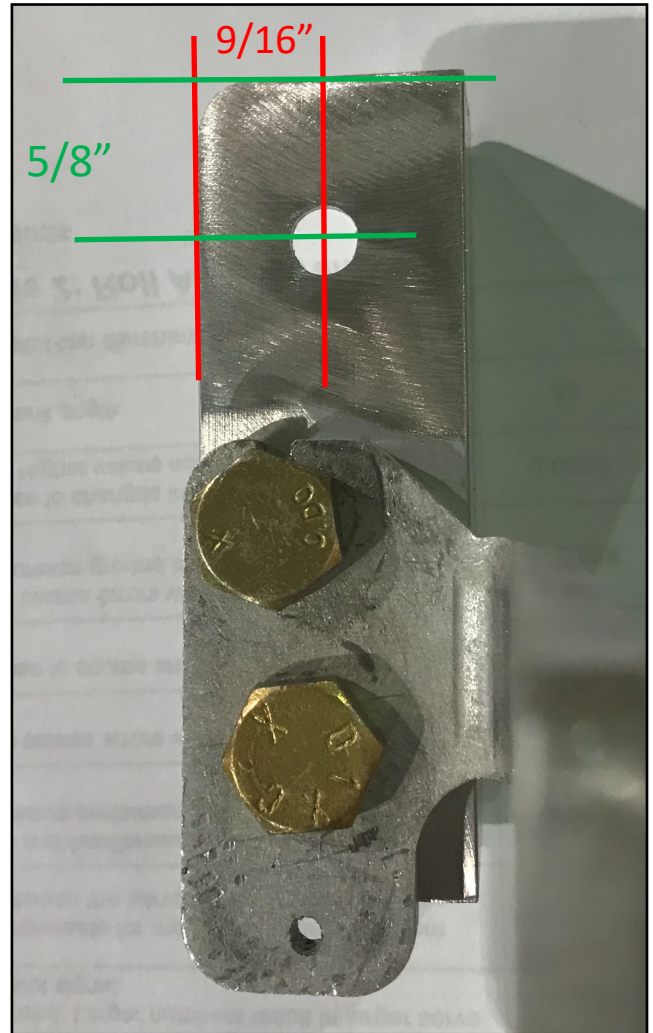


3. First will be to fabricate the cable mount angle. Because the throttle arm is longer the point at which the throttle cable attaches will need to be higher. A 3" piece of angle aluminum is provided to build this part.
4. Carefully clamp the angle to the existing bracket as shown in the pictures.
5. For horizontal alignment the angle should be flush with the edge of the existing mount.
6. For vertical alignment the angle should be just above the small hole at the bottom where the throttle spring was hooked.
7. The mounting holes in the factory bracket are 5/16" due to the cable housing size. Now we could make some fancy bushings for smaller fasteners, or try to drill new holes else where. However we like easy, so we are going to simply match drill the 2 cable holes to the angle. Do so with a 5/16" bit.
8. Once the holes are drill unclamp the angle and debur the holes.





9. The throttle cable hole can now be drilled in the angle
10. Measure down from the end of the angle  $5/8"$
11. Measure in from the side of the angle  $9/16"$
12. Drill a  $1/4"$  hole here
13. Deburr the hole



14. Bolt the angle to the factory bracket with the supplied AN5-6a bolts, washers and nuts. Yes these are way big for the job, but remember we did want to get all fancy and make bushing, this is simple and works.



15. Install the assembled throttle bracket we just built with the previously removed gold screws. Use Loctite 242 or similar on the threads.
16. The new throttle arm may then be installed as well. use the previously removed silver screw and some Loctite 242 on the threads.
17. Hook the throttle spring back up as is was when removed.
18. Your carb can now be reinstalled and the throttle hooked up. Please refer to the jabiru engine installation manuals for this steps. NOTE: the throttle cable end adjuster shown in the picture is not included in this kit but shown for clarity of the assembly.

