

## Skybolt SK-SP5 Tool Instructions



- 1) Install stud into panel and lock. Note protrusion of head from being flush. Adjustments are in .015 increments (1/2 Turn) and .030 increments (1 Full Turn).

2) Measure the amount of stud protrusion, in this example, .100 of an inch. This will require 3 Full Turns of the tool when inserted into the receptacle to set the stud flush with the grommet face when locked.



- 3) Remove the stud with SK-4P3 Pliers as shown. Note that the pin in this picture is 90 degrees to the pliers. This positioning makes insertion much easier.



4) Loosen the adjuster sleeve set screw and insert the tool into the receptacle as far as it will allow. Slide the adjuster sleeve until it faces with the grommet and tighten the set screw.



- 5) Remove the tool and measure the distance from the end to the sleeve, in this case it is .560.



6) Reset the adjuster sleeve to  $.560 + .100 = .660$  as shown and tighten the set screw. This should establish a target depth for all panel fasteners assuming a uniform panel thickness.

7) Engage the tool into panel (through grommet) and engage into receptacle with slight pressure. This unlocks the insert and allows the tool to turn the insert until the adjuster sleeve faces with the grommet. This establishes the target adjustment depth (at least for this location and total panel thickness).



8) Re-install the stud. Lock and note that it is correctly adjusted as to not be too tight (requiring force to lock) and is flush with the face of the grommet. Many times, particularly for engine cowlings that typically have mis-faced surfaces, or in the case of Cessna firewall platemounts, there is a large adjustment between just flush and a properly set tension for positive lock without being too tight.

9) The SK-SP5 Tool is a dual purpose tool. Located in the handle (beneath the rubber cap) is a tapered tool used to install the SK-R4G retainers onto the Cloc 4000 Series Grommet (installed in the outer panel). To use this tool as a familiar "T26" Tool, loosen the set screw of the adjuster sleeve and slide to the end of the tool until it is flush. Tighten the set screw into the groove on the tool shank (this adds stability). Place the rubber cap on this end of the tool. As shown, slide the SK-R4G retainer at least 2/3 of the way down the taper tool. Place the taper tool over the end of the grommet (installed in the panel), then, using the SK-SP5 tool, push the retainer onto the grommet.

