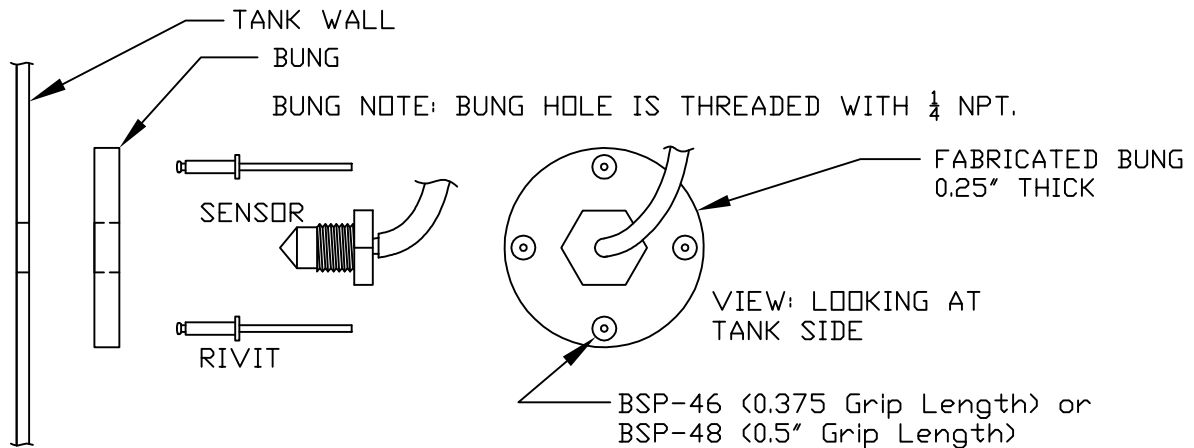


NOTE:

THE EXAMPLE BELOW IS ONLY AN EXAMPLE OF WHAT OTHERS DID TO INSTALL THEIR FUEL SENSOR. IT IS UP TO THE INDIVIDUAL BUILDER TO DETERMINE WHAT WILL BE THE BEST SOLUTION FOR THEIR PROJECT.

WARNING! DO NOT DEFACE THE TIP OF THIS SENSOR OR GET SEALER ON IT. THIS MAY RENDER THE SENSOR INOPERABLE. SEE THE SENSOR SPEC SHEET FOR MORE DETAILS.



- 1.) THE SENSOR NEEDS TO BE MOUNTED HORIZONTALLY OR (VERTICALLY, POINTING UP ONLY) SO THAT A DROP OF FUEL DOES NOT ACCUMULATE ON THE TIP OF THE SENSOR, OTHERWISE IT WILL STILL SENSE IT IS IN FUEL.
- 2.) FABRICATE A 2" DIA. BUNG AS DEPICTED ABOVE OR SIMILAR. CREATE A 1/4 NPT THREADED HOLE FOR THE SENSOR. DRILL 4 TO 6 APPROPRIATE HOLES FOR THE RIVETS IN THE BUNG AND THE TANK WALL. (USUALLY 0.125" DIA.)
- 3.) APPLY PROSEAL OR AN EQUIVALENT FUEL TANK SEALER BETWEEN BUNG AND TANK WALL BEFORE RIVETING TO PREVENT LEAKS.
- 4.) RIVET BUNG TO WALL. BLIND RIVET TYPES SHOULD WORK FINE. ENSURE THAT YOU APPLY PROSEAL ON THE RIVET HEADS BEFORE RIVETING TO SEAL THE HOLES.
- 5.) SCREW IN SENSOR (PAY ATTENTION TO THE SPEC SHEET TORQUE SPECIFICATIONS!) TIGHTENING TORQUE (13.26 in.-lbs. or 1.5Nm) IT IS NOT IMPORTANT THAT THE SENSOR HEX NUT BOTTOMS OUT ON THE FEMALE FITTING HOLE.

NOTE:

IF YOU CHOOSE TO USE FUEL LUBE ON THE THREADS BEFORE SCREWING IT IN, WE CANNOT GUARANTEE THAT YOU SHOULD USE THE SAME TORQUE SPECIFICATIONS. IT MAY BE TOO MUCH FORCE. FUEL LUBE MIGHT HELP THE THREADS TO SEAL BETTER, BUT IT WILL BE EASIER FIT. DO NOT GET FUEL LUBE ON THE SENSOR TIP IF YOU CHOOSE TO USE FUEL LUBE. THE SENSOR MAY NOT WORK.

- 6.) USE "A SMALL DAB" OF PROSEAL ON THE SIDE OF THE SENSOR HEX HEAD AND THE BUNG SO THAT THE SENSOR WILL NOT BACK OUT. YOU MAY WANT TO ALSO FABRICATE ANOTHER MECHANICAL DEVICE TO GUARANTEE THAT THE SENSOR WILL STAY IN.
- 7.) SECURE THE SENSOR WIRES WITH TY-WRAPS LOCALLY SO THAT THE WIRES WILL NOT BE PULLED OUT OF THE SENSOR.

**Aircraft
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FUEL SENSOR INSTALLATION EXAMPLE 10-17-2024.dwg

ALL dimensions in inches.

R.A.M. 10/17/2024