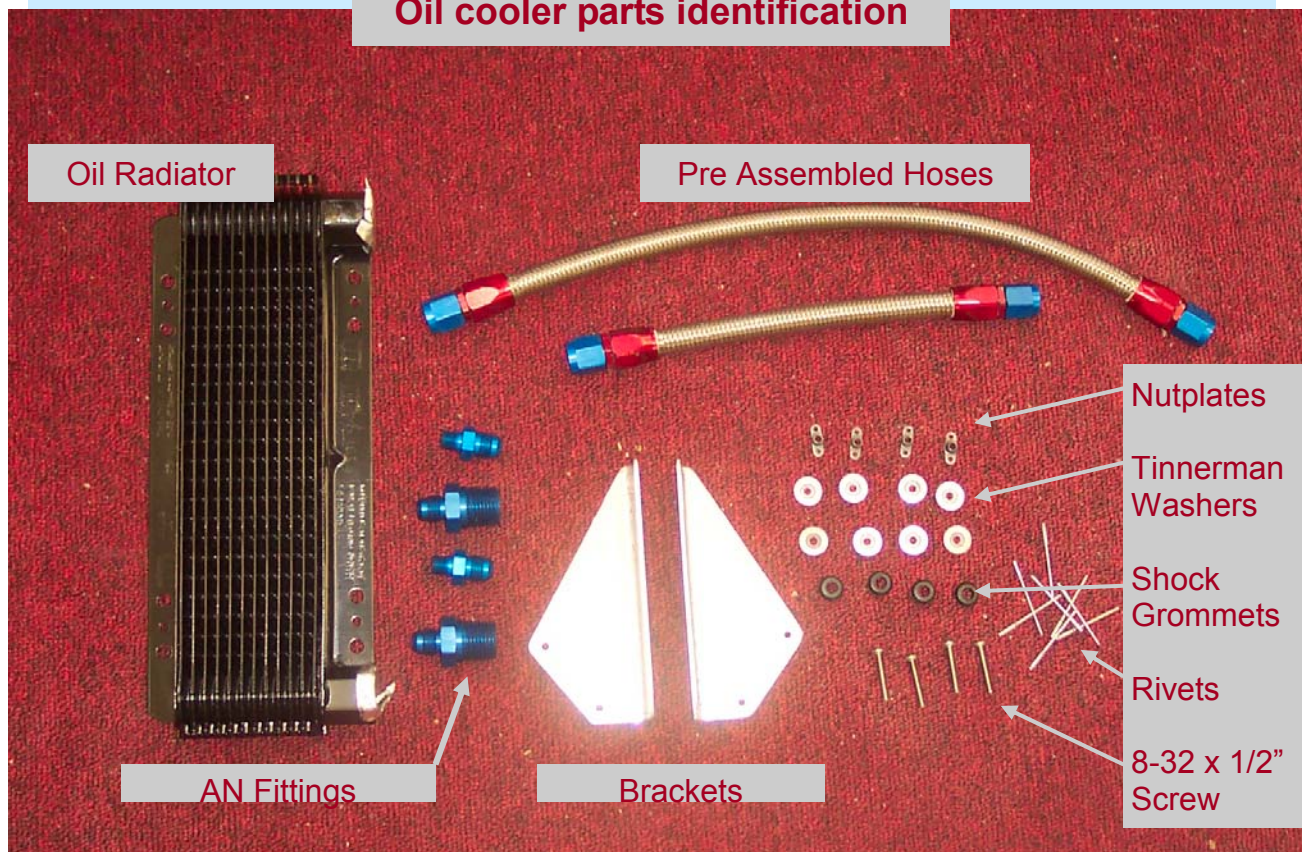




For Zenith FWF installation support
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or call (in emergency) 920-836-2096

The oil cooler positioning may be slightly different from cowl to cowl due to some normal differences in the tension of engine mount rubber cushions and exact installation technique. The position of the brackets will be the same in each case, though. It will be necessary to move the radiator up and down the bracket until a good fit is achieved.

Oil cooler parts identification



| Oil Cooler Kit Parts List |
|--|
| Oil Cooler Radiator |
| 1/8 NPT x AN6 Aluminum fitting x 2 |
| 1/2 NPT x AN6 Aluminum Fitting x 2 |
| Bracket RH |
| Bracket LH |
| MK1000-8 nutplates x 4 |
| Tinnerman Washer #8 x 8 |
| Rubber Shock Mount Grommet x 4 |
| 3/32 Flush Blind Rivet x 8 |
| #8 x 32 x 1/2" Flush Machine screw x 4 |
| 3/16 Blind Rivet x 4 |

| Tools Needed |
|----------------|
| Drill |
| 3/16 drill bit |
| 3/32 drill bit |
| Rivet Puller |
| 1/2 drill bit |
| Screw Driver |
| Wrench Set |

Procedure:-

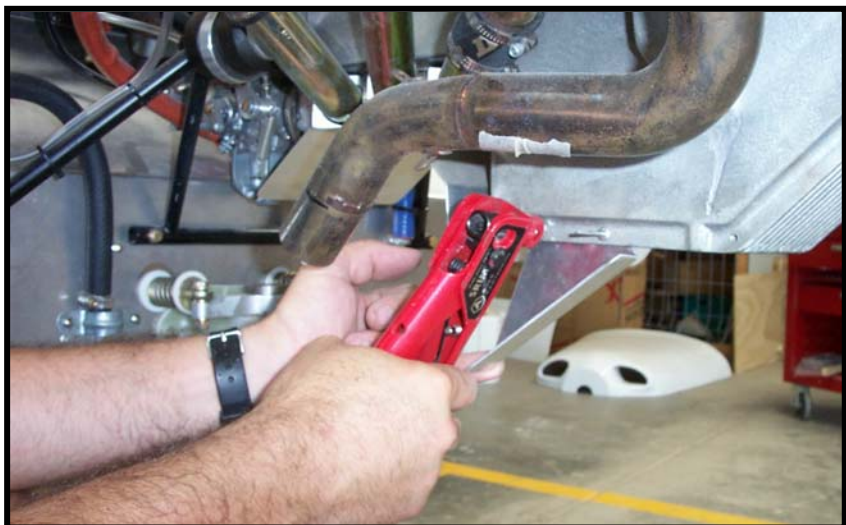
1. Position brackets onto the Outside fin on the side of the sump, fin. Position the rear of the bracket 1.5 inches from the rear of the sump (see photos).



2. Drill through the outside fin using the pre-drilled holes in the Aluminum bracket as your drilling jig.



3. Rivet into position using two 3/16 blind rivets on each bracket.



4. Place the Oil Cooler onto the bracket to it is centered horizontally & vertically. Keep in mind that you may later need to move the cooler up or down so that you get enough cowl clearance. Clamp in place with small C clamps or cleco clamps.

The bottom cowl must be in place for the next step.



5. Position the radiator so that it is centered in the cooling air inlet. Make sure there is clearance of around the cooler so that the radiator will not contact the cowl. Most installations will have about 3/4 inch clearance between cowl and radiator at the bottom. Position the radiator so that clearance is no more than 3/4 inch. When happy with the position of the cooler, screw the cooler onto the bracket with self tapping screws or firmly clamp in place to maintain the correct position

Remove bottom cowl and drill the four mounting holes to 1/8" —drilling through the radiator flange and through the bracket. Keep the hole centered on the flange of the bracket.



6. Remove the radiator and install nutplates in the holes you just drilled in the brackets. Drill the holes to 5/32" & insert drilling jig into hole. Drill the two 3/32" rivet holes on the retained nut into the bracket. Repeat procedure for remaining 3 holes.

10. After drilling the 3/32 rivet holes, drill the 5/32" screw holes to 3/16" (this will allow clearance for screws)

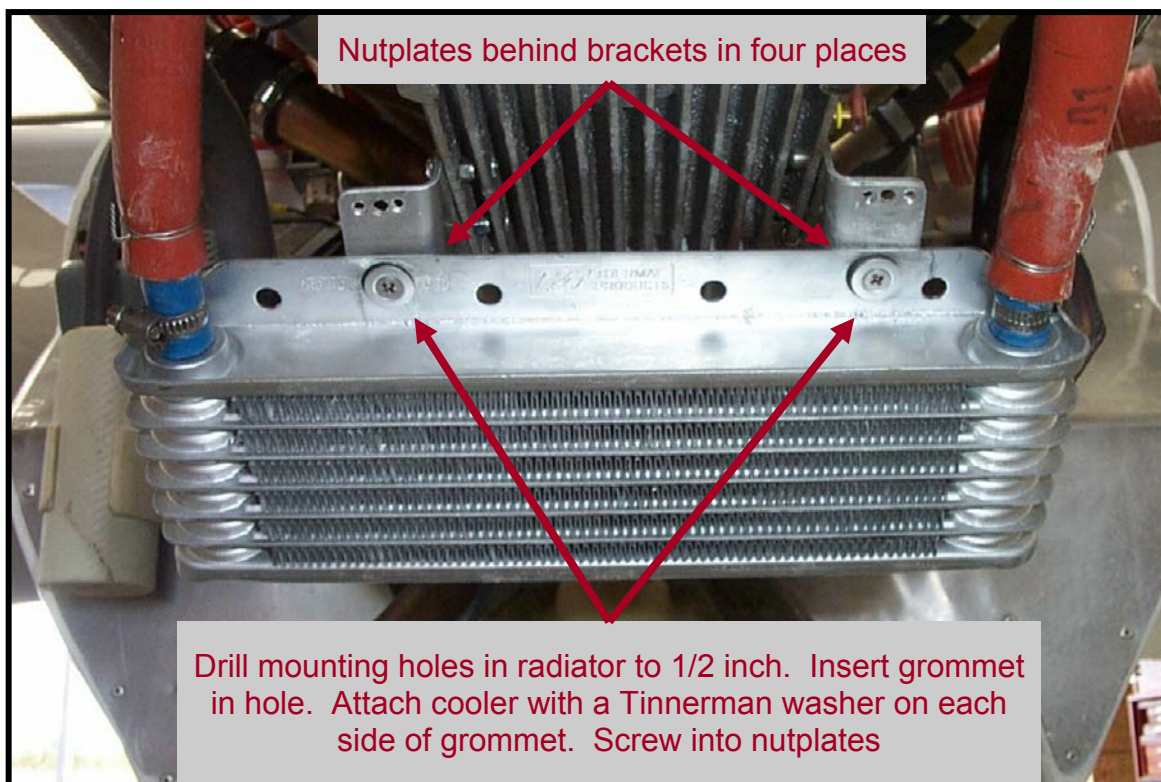
11. Counter sink 3/32" rivet holes being careful not to get too deep.

12. Rivet lug anchor nuts in place.

13. Drill the mounting holes on the oil cooler flange out to 1/2" dia.

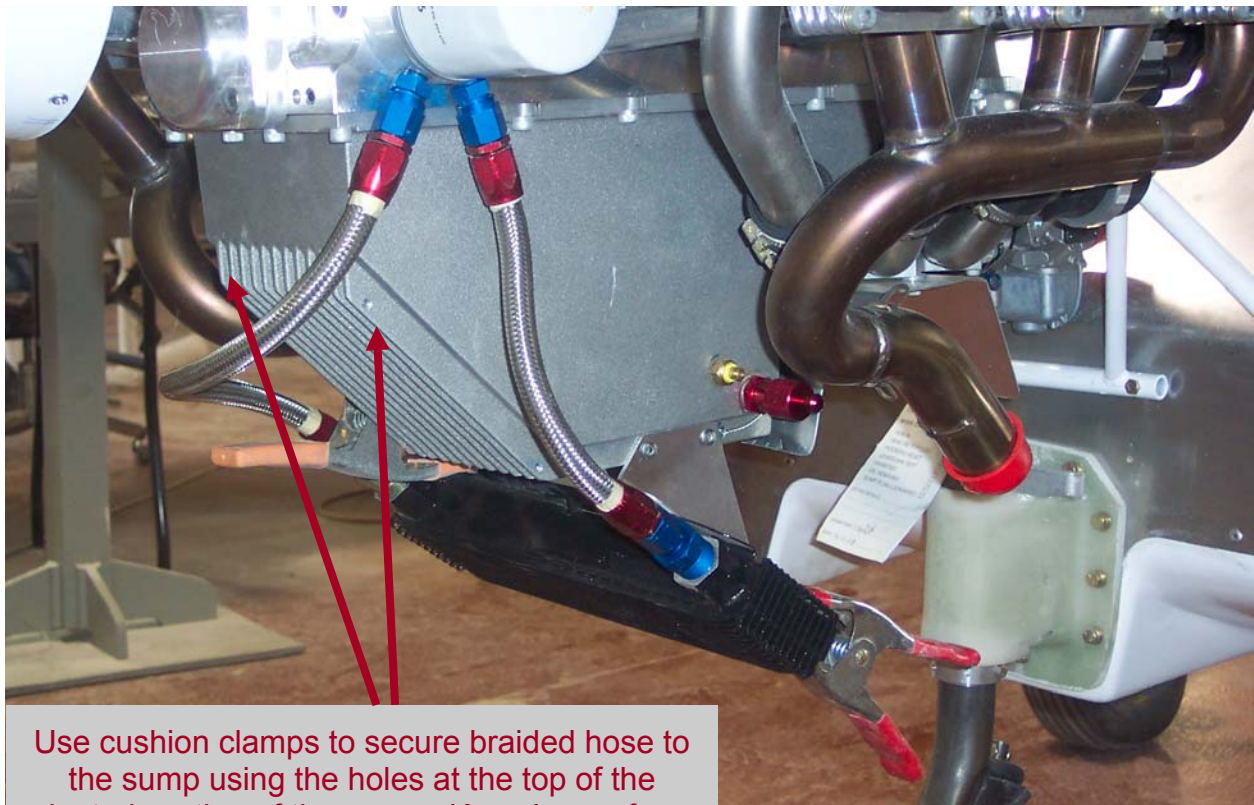
14. Insert grommets into drilled 1/2" holes.

15. Mount the radiator by placing a Tinnerman washer on each side of the grommet and insert a 8-32 screw through the grommet assembly and into the nutplate. Repeat for all four screws. Tighten snugly but not so tight that the grommet is mashed down.



16. Remove the hose barb fittings from the Jabiru oil cooler adapter. Replace with the 1/8 NPT x AN6 aluminium fittings. Use Permatex sealant on the threads. 17. Install the an fittings into the radiator. Use some Permatex sealant on the threads.

17. Install the 1/2 NPT x AN6 aluminium fittings into the radiator. Use Permatex sealant on threads.
18. Install preassembled hoses from cooler to oil adapter. Secure the hoses to the oil sump to prevent contact on the cowl.
19. Remount the bottom cowl and fit the oil cooler air dam. See air dam instructions.



Use cushion clamps to secure braided hose to the sump using the holes at the top of the slanted section of the sump. Keep hoses from scuffing on the cowl.