

AeroVee 2.1

Parts Required

Supplied by/available from Sonex Aircraft:

- ___ ACV-P01-106, Oil Cooler Mount Plate
- ___ Rubber gaskets from ACV-P02-15 Gasket Kit
- ___ AN4-13A bolt, Qty. 2
- ___ MS20365-428 Stop Nut, Qty. 3
- ___ M8-1.25 x 20mm Button Head Screw, Qty. 1
- ___ AN4-23A bolt, Qty. 1
- ___ AN4-27A bolt, Qty. 2
- ___ AN960-416 Washers, Qty. 6

Not supplied by Sonex Aircraft:

- ___ Oil Cooler for 1971 T1 or T2 VW engine
(such as CB Performance part number 1727)



The top-mounted oil cooler positions the oil cooler on top of the case, near the accessory plate.

Installing the Oil Cooler

1. Insert the two orange-colored cylindrical seals from the gasket kit (provided with your AeroVee engine) in the oil cooler ports on the top, right-hand side of the engine.



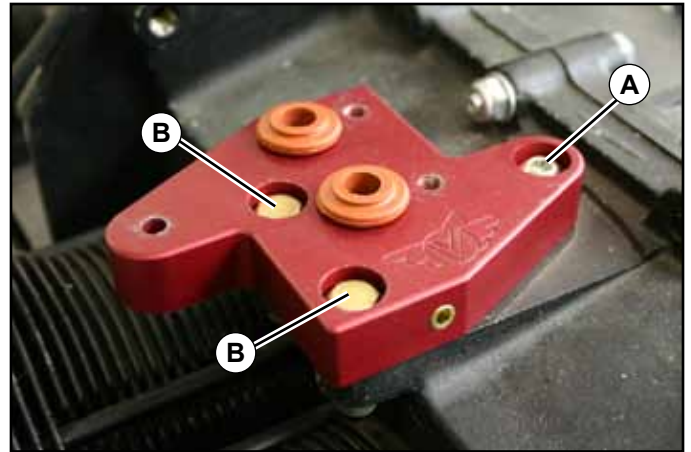
The arrow in this photo shows one of the seals before it is installed in its port.



This photo shows both seals installed in the ports.

OIL COOLER, TOP MOUNT

2. Carefully position the Oil Cooler Mount Plate over the seals and bolt the plate to the engine case using the hardware identified in the photo below.

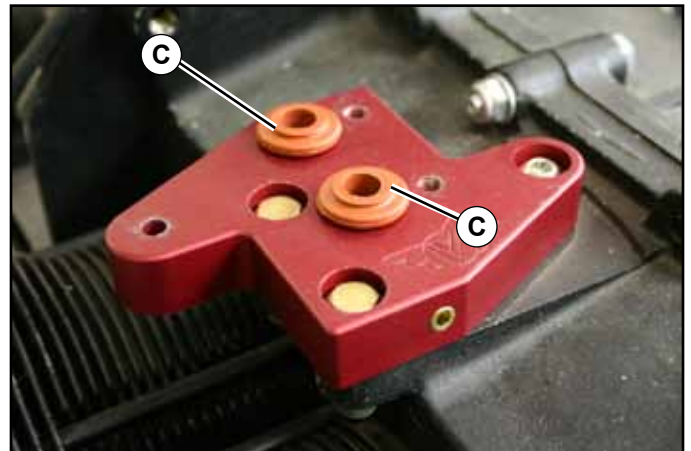


The Oil Cooler Mount Plate is attached with the following hardware:

A = M8-1.25 x 20mm button head screw
B = AN4-13A bolt, AN960-416 washer (under nut) and MS20365-428 stop nut.

3. Insert the two short, orange-colored flanged seals from the gasket kit (provided with your AeroVee engine) in the oil ports of the Top Plate. See photo below.

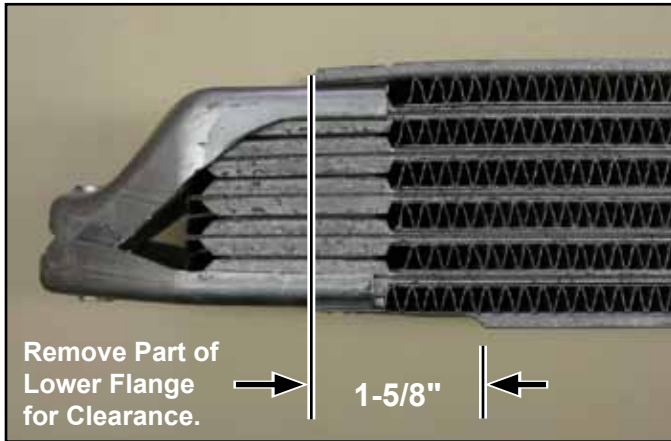
Important: The gasket kit contains both tall (thick) and short (thin) flanged oil seals. Be sure to use the short (thin) seals for this installation.



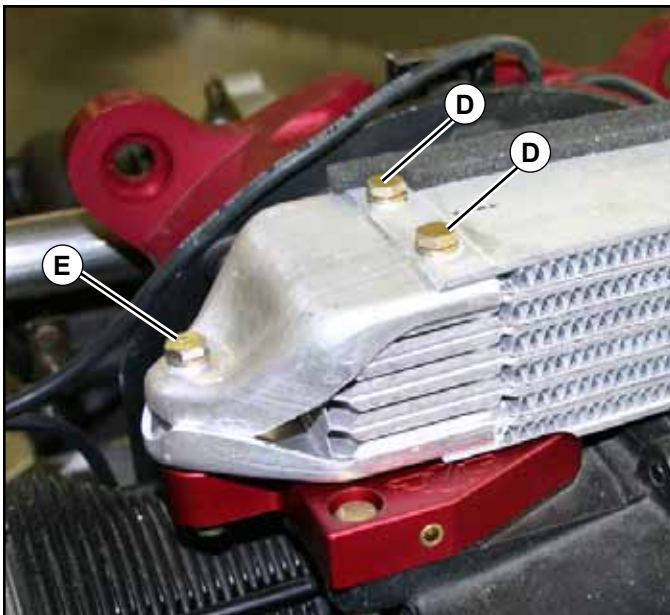
The short (thin) flanged oil seals installed in the Top Plate's oil ports (C).

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- Remove a 1-5/8" long portion of the front, lower flange of the oil cooler. This is necessary to eliminate interference between the oil cooler's flange and the adapter plate. See photo below for details.



- Carefully position the oil cooler over the seals in the mount plate and bolt the oil cooler to the plate using the hardware identified in the photo below.



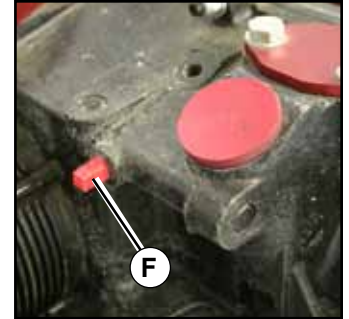
The Oil Cooler is attached with the following hardware:

D = AN4-27A bolt with AN960-416 washer.

E = AN4-23A bolt with two AN960-416 washers (one top, one bottom) and MS20365-428 stop nut.

OIL COOLER, TOP MOUNT

- Install the optional oil pressure sender or a 1/8 NPT pipe plug in the port in the side of the case (F).



Important: Do not overtighten the oil pressure sender or the pipe plug as this can result in a cracked case.

When installing the optional oil pressure sender do not use teflon paste or teflon tape on the threads as this will inhibit the grounding of the sender; good grounding is required for an accurate signal. You may even consider adding a dedicated ground wire to the body of the sender.