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)

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.

2. Carefully position the Oil Cooler Mount Plate over the
   seals and bolt the plate to the engine case using the hard-
   ware 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.

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

   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.
4. 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.

5. 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.

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\[ \text{The Oil Cooler is attached with the following hardware:} \\
\text{D = AN4-27A bolt with AN960-416 washer;} \\
\text{E = AN4-23A bolt with two AN960-416 washers (one top, one bottom) and MS20365-428 stop nut.} \]

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6. 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.