

INSTRUCTION SHEET

Aviaid Oil Pan Baffle Kit for 2006-present Z06 Corvette

Step 1 Remove oil pan from engine and place on bench. Clean thoroughly.

Step 2 Remove OEM pickup. (photo A)

Step 3 Place supplied template on floor of oil pan and mark where holes are to be drilled using a scribe, punch or Sharpie, etc. (photo B)

Step 4 Prepare to drill .265" (17/64") holes in floor of pan by placing a piece of wood (3/8" or 1/2" thick) under the flat surface of the pan. Support the floor of the pan; not bumps or bungs. Use a drill press. (photo C). Proceed to Step 6 if using OEM pickup.

Step 5 Mark pan for installation of auxiliary pickup (*only if using Aviaid external pump*). Determine hole position by marking a line that is 9.250" forward of the back of the pan (photo D), and then 2.125" down from the top of the pan rail. (photo E) Use a mill to machine an .875" (7/8") hole at this point.

Step 6 Insert Aviaid cage assembly. (photo F)

Step 7 Clean the area around the stud with Acetone or Brake Clean to ensure good adhesion. Add a bead of silicone around the protruding studs. (photo G)

Step 8 Install supplied copper washers and Nyloc nuts. Tighten to approximately 60-75 inch pounds of torque. (photo H)

Step 9 Re-install OEM pickup using 10mm bolts. (photo I)
Proceed to Step 13

Step 10 If using Aviaid external pump you will install a special pickup in place of the OEM unit (photo J), and also a second pickup through the hole machined in the pan. (photo K)



Photo A



Photo B



Photo C



Photo D



Photo E



Photo F



Photo G



Photo H



Photo I



Photo J

(continued on back side)

Step 11 Add a bead of silicone around the pickup bulkhead fitting (photo L)



Photo K

Step 12 Install Teflon washer on fitting and secure with jam nut (photo M)



Photo L

Step 13 Install windage tray, washers and nuts. Tighten nuts of approximately 60-75 inch pounds torque. (photo N-1 for OEM pickup, photo N-2 for dual pickups)

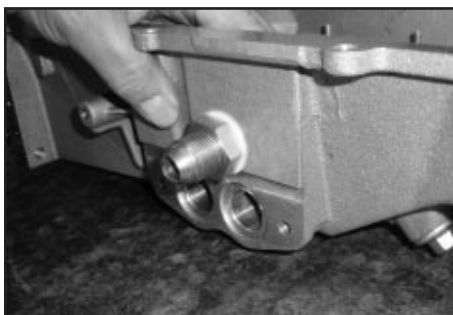


Photo M



Photo N-1

External Wet Sump Pump

Step 1 Lay out contents of kit and verify that all components are included. (photo O)



Photo N-2

Step 2 Attach pump to cylinder head mounting bracket. Leave bolts loose enough to allow movement.



Photo O

Step 3 Remove OEM tensioner assembly and serpentine belt.

Step 4 Install bracket (with pump) to passenger side cylinder head. (photo P)

Step 5 Attach Katech tensioner assembly.

Step 6 Install Aviaid tensioner pulley on Katech tensioner.

Step 6 Install Aviaid tensioner pulley.

Step 7 Reinstall serpentine belt. (note: installation may require us of a belt 1" longer than original depending on damper assembly)



Photo P



Photo Q

Step 8 Attach drive pulley to external wet sump pump shaft.

Step 9 Install Aviaid tensioner pulley.

Step 10 Adjust tension on serpentine belt per instructions provided with Katech tensioner.

Step 11 Attach drive belt and adjust tension as required. Tighten all fasteners securely. (Photo Q)

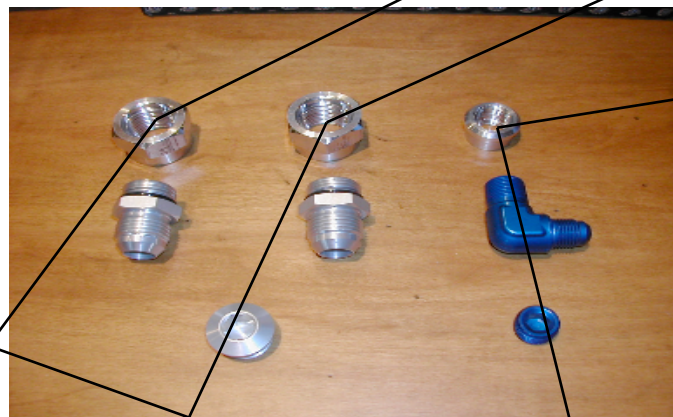
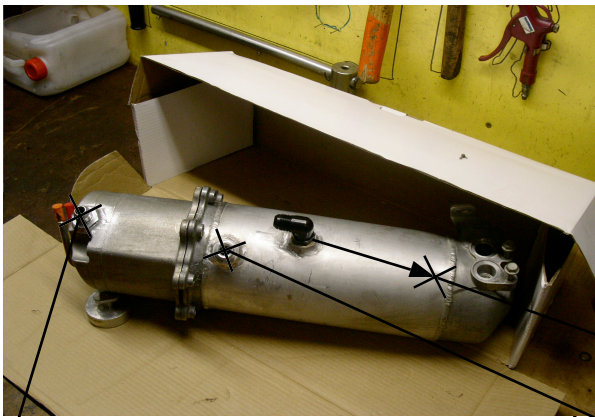
AVIAID

10041 Canoga Ave., Chatsworth, CA 91311

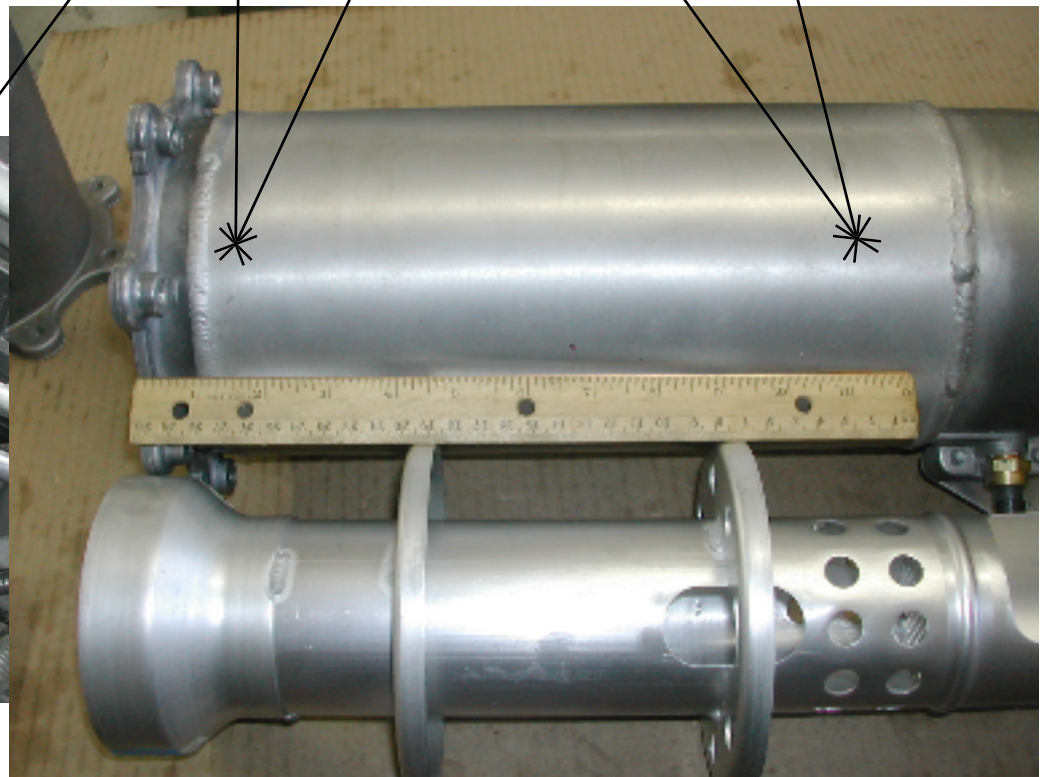
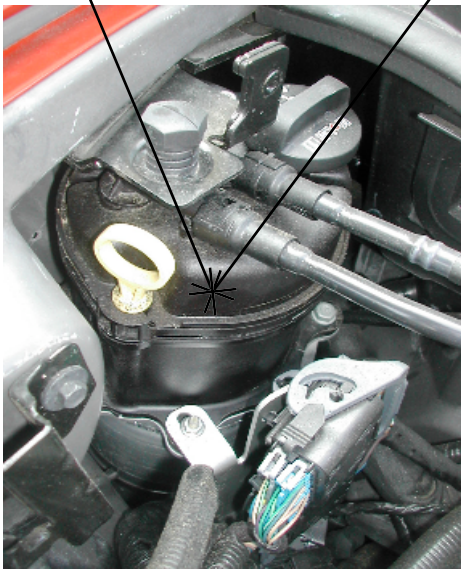
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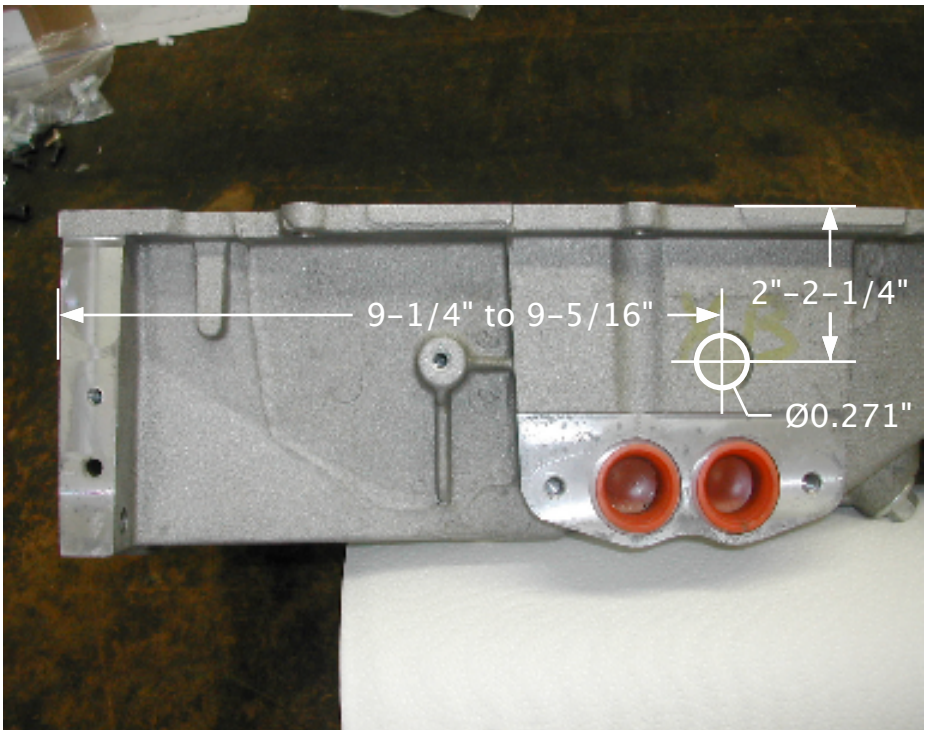
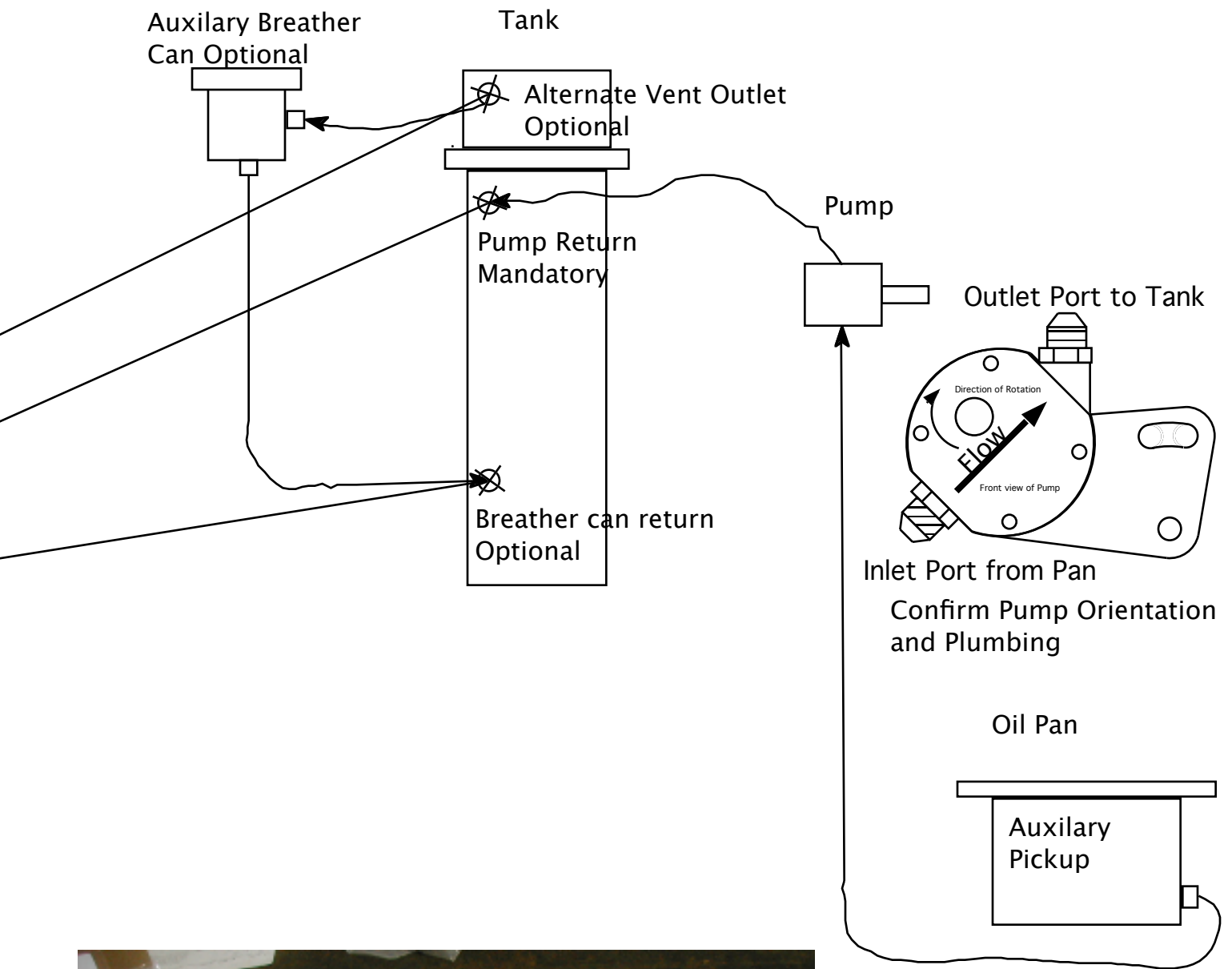
www.aviaid.com • e-mail: aviaid@aol.com

The mandatory addition to the tank is the return from the auxiliary pump. This bung should be attached between 1 & 4 inches from the top of the lower tank flange. It can be attached at any point around the tank within this band to suit the installation. At this time experience has shown that on a stock engine the OEM venting system will handle the venting of the engine with the auxiliary pump. If an auxiliary vent is desired, a breather tank can be installed. The best connection option is in the top tank at the indicated location. If the top is aluminum, drill hole and weld in -10 bung. If the top is plastic, we have not yet developed a solution for providing a vent connection. A drain back into the tank can be connected below the oil level in the tank. Plumb the system as indicated on the next sheet.



(1) Tank Top Vent Option Aluminum Top (2) Pump return (3) Breather tank return





Keep auxiliary pickup hole as low as possible, but high enough so sealing washer does not overhang edge of casting above hose ports.