

# 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.



Photo A

**Step 2** Remove OEM pickup and windage tray. The pickup will be reused; discard the tray. (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)



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.

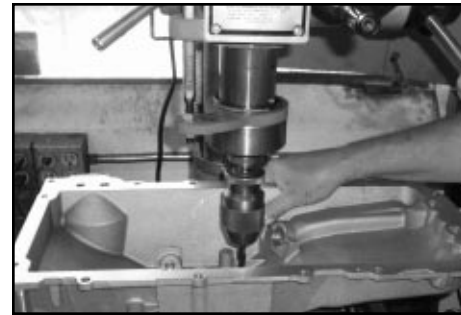


Photo C

**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.



Photo D



Photo E

**Step 6** Insert Aviaid cage assembly. (photo F)



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)

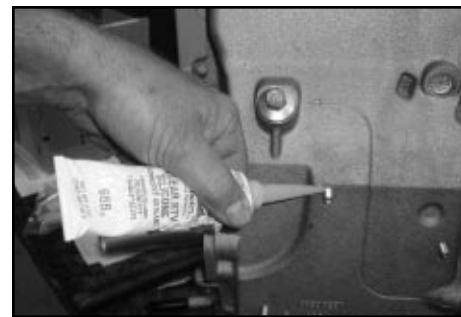


Photo G

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



Photo H

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



Photo I

**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 J

**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)

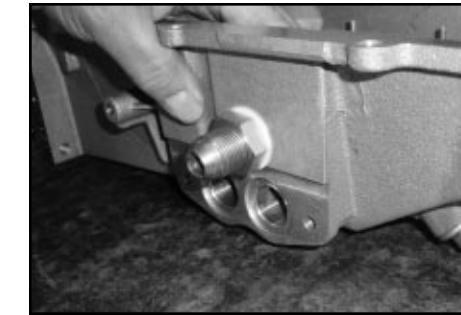


Photo M



Photo N-1

### External Wet Sump Pump

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

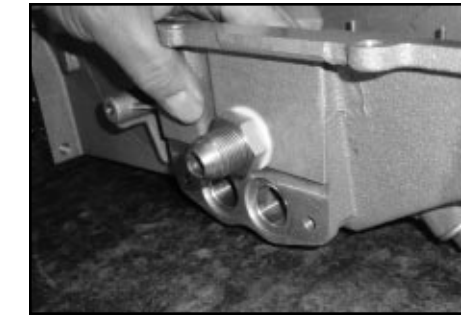


Photo N-2



Photo O

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



Photo P

**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 Q



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)



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## Instructions For Installing Aviaid LS7/Z06 Tank Insert



FIGURE 1



FIGURE 2



FIGURE 3



FIGURE 4



FIGURE 5



FIGURE 6

1. Remove the dry sump tank from the vehicle
2. Place in vertical position on workbench
3. Mark the top and bottom sections of the tank with a Sharpie or some other means so you'll have an index for reassembly. **FIGURE 1**
4. Remove the dip stick
5. Remove the top section of the tank. **FIGURE 2**

6. Remove the transfer tube. **FIGURE 3**
7. Clean the tank and transfer tube thoroughly
8. Hold the insert tube upright. **FIGURE 4**
9. Insert the swaged end of the transfer tube into the slot below the lower baffle of the tank insert **FIGURE 5**
10. Push the transfer tube all the way in until the end goes through the top section. **FIGURE 6**

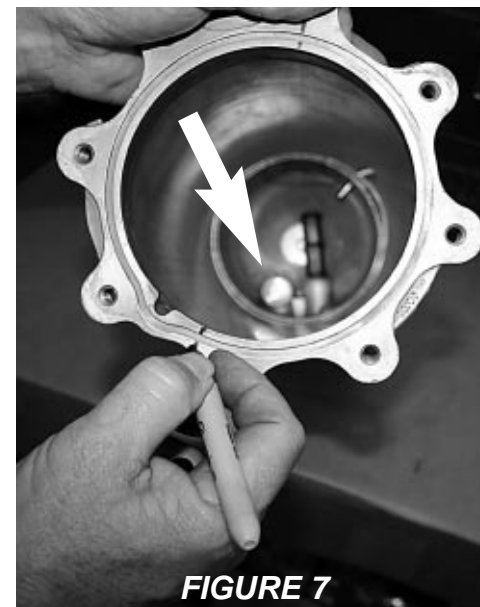


FIGURE 7



FIGURE 8

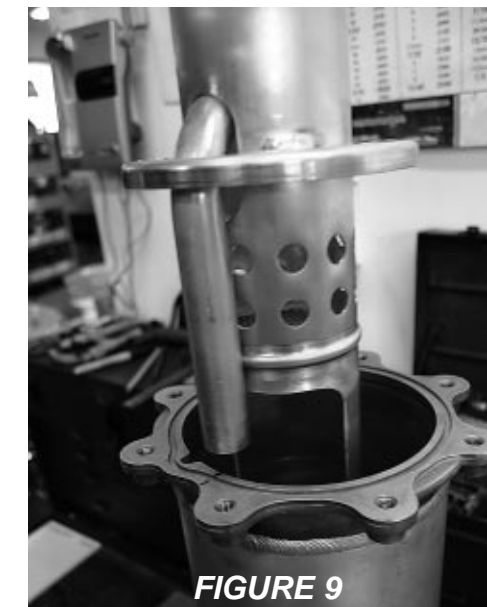


FIGURE 9



FIGURE 10



FIGURE 11



FIGURE 12

11. Mark the relative position of the transfer tube port (at bottom of tank) on the flange. Note position of the screened intake. **FIGURE 7**
12. Hold the transfer tube from the top to stabilize **FIGURE 8**
13. Align the lower part of the tube with the reference mark you made on the flange and insert unit into tank **FIGURE 9**
14. Make sure the transfer tube is inserted into the port. When the tube is correctly positioned, the top of the tube will be flush with the top of the tank insert. It will be approximately 1/2" above the flange.

15. Place the stamped steel screen and breather foam into the top of the tank insert, making sure they fit around the transfer tube. **FIGURE 10**
16. Verify that the tank gasket is in good shape and can be reused
17. Replace the top section of the tank, making sure the transfer tube registers inside of the port and the insert fits around the cap's circular central core casting. Use the marks you made on the top and bottom sections for reference. **FIGURE 11**
18. Install bolts in flange and tighten securely. **FIGURE 12**



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