



PONTIAC MOROSO EVACUATION PUMP INSTALLATION INSTRUCTIONS

By creating a negative pressure (relative to atmospheric pressure), this crankcase evacuation system is designed to reduce crankcase pressure build-up, providing better ring seal, less intake charge contamination, and a reduction in oil leakage. This kit employs a belt driven pump to create negative crankcase pressure and produce more horsepower.

Evacuation Kit Includes (see picture):

- Assembled Pump With Pulley and Pump Mounting Bracket
- Drive Mandrel With Pulley
- Mounting Kit With Fasteners
- Belt
- Weld-In or Positive Seal Valve Cover Bung
- Catch Can With Breather
- Assembly Instructions
- Hoses And Fittings
- Vacuum Bypass Valve (OPTIONAL)

1. Remove crankshaft pulley bolts (if used) and replace with correct length to install crankshaft drive mandrel. If not using standard crankshaft pulley use bolts supplied to install the mandrel on the harmonic damper.

2. The slotted adjustment bracket is mounted with the supplied 3/8" hardware to the passenger side cylinder head (see picture). Install the supplied aluminum bracket to the pump first (if not installed as received), then, attach to cylinder head.

3. Install the belt around the drive and pump pulley. (To facilitate installation of the belt, the drive pulley can be removed and reinstalled with the belt around it). Align the drive pulley with the pump pulley by repositioning it on the shaft. Swing pump outward to tighten belt and secure pump bolts at the adjustment point. At this time, Loc-tite and tighten set screws in drive pulley and check all mounting bolts to assure that they are also secure.

4. Mount the catch can/breather to the firewall or inner fender as space dictates.
NOTE: FASTENERS FOR THIS PROCEDURE ARE CUSTOMER SUPPLIED.

5. Install the valve cover bung. Recommended in the passenger side cover only. See pictures for correct location. You can also weld a baffle under the bung. Plug hole in driver side valve cover with supplied oil fill cap. Plug off PCV valve and line. You may also want to cap off the dipstick tube to prevent vacuum leakage.

6. Install one end of the braided hose to the pump inlet port after installing hose fitting(this port is closest to the water pump). Measure the length of the hose needed to reach the valve cover fitting from the pump. Cut the hose to desired length. Install the braided hose to the pump outlet with another hose fitting. Measure and cut the hose to length as needed to reach the breather/catch can. Assemble the hose and fittings. At this time tighten the remaining loose fittings.



PARTS LIST:

Vacuum pump
 Aluminum bracket (pump to cyl. head)
 Set screws-(preinstalled in pulley)
 5 inch pulley for pump
 2.5 inch drive pulley
 Breather tank
 Pulley drive for crank
 V-belt (91.5 cm)
 Valve cover bung/positive seal fitting
 Oil fill cap
 2-3/8" x 1" bolts (for slotted pump adjustment bracket)
 2-3/8" flat washers

#12AN straight fitting for tank
 #12AN 90deg. fitting for valve cover
 2-#12AN straight fittings for pump
 4ft- #12 braided hose
 4-3/8"-16 x 1" countersunk bolts

