

In Block O-Ring Wire Installation Instructions

SCE O-Ring Kit p/n 31542

Step 1. When installing o-rings there are two main considerations for placement.

A. The o-ring must be clear of the sealant beads on the gasket where applicable. This will determine the maximum outer diameter of the o-ring.

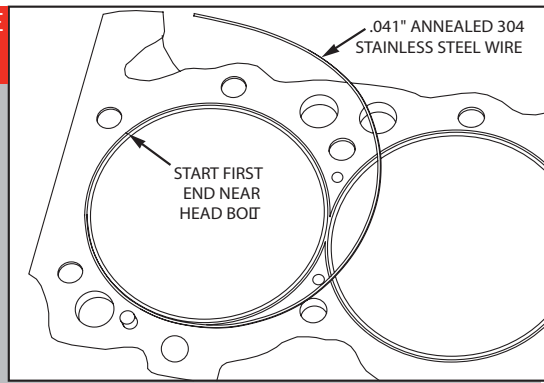
B. The o-ring diameter and location must accommodate bore opening and combustion chamber size and shape. This will determine the minimum inside diameter of the o-ring.

Step 2. Recommended o-ring protrusion is not more than 25% gasket thickness
Example: Gasket thickness .043", o-ring protrusion height is .008" to .010". This standard works with all thicknesses that are .050" and less. Gaskets that are thicker than .050" do not require o-ring height more than .012"

Step 3. If the combustion chamber or bore is so large that the o-rings will be placed less than .200" apart between cylinders, it is advisable to use a "figure 8" pattern for o-rings. This allows for more even clamping load over the entire head surface.

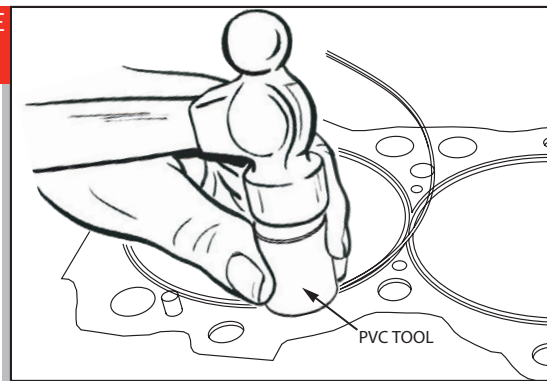
Step 4. New head studs/bolts are recommended for proper gasket sealing. Threads must be in good condition otherwise replace, a die can be used to remove old sealant and/or rust. Use a tap to clean threads in block. If threads are tapped through the deck, use care in sealing threads to prevent coolant migration up the bolt. If studs are to be used check for proper length so nuts do not "bottom out". Always use quality hardened washers and thread lubricant to prevent galling.

FIGURE 1



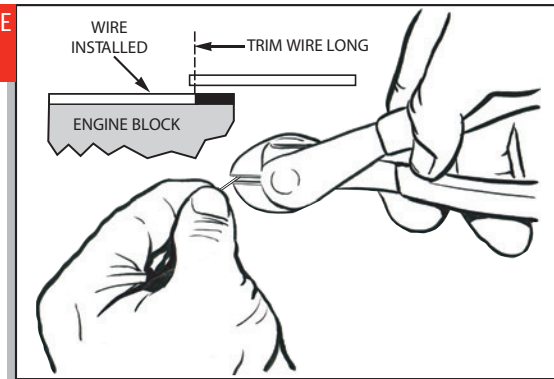
Trial fit and cut wire to approximate length +1.00". Using pliers and a fine mill file, square the starting end and insert near a head bolt.

FIGURE 2



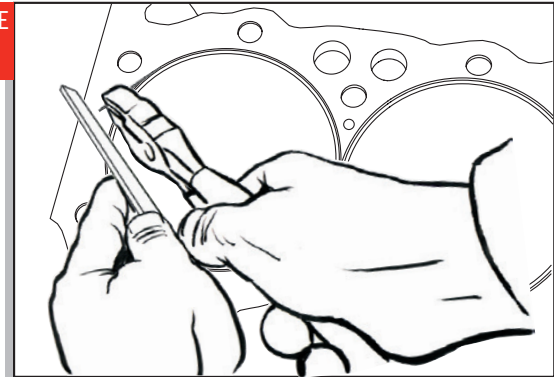
Seat the wire using the PVC tool provided. This will evenly distribute hammer blows and prevent flattening the wire.

FIGURE 3



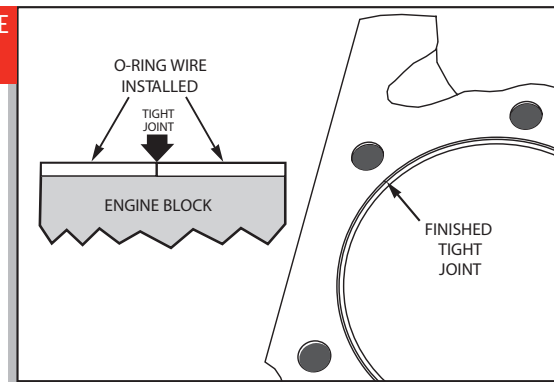
After working your way around the bore, stop a few inches short and trim the wire slightly long in preparation for final fit.

FIGURE 4



Next using pliers and fine mill file, carefully fit the wire making a tight joint. If the gap is too wide start over. There is enough wire in the kit for approximately 10 cylinders.

FIGURE 5



After a few tries you can get the joint so tight that it is almost invisible. You can then take pride in having done by hand one of the most important steps in sealing your high performance engine.

