

STOMSKI RACING

CIRCLIP INJECTOR™ Patent Pending

The cumbersome, awkward task of installing the wrist pin circlips into Porsche pistons has just gone from chore to joy. No more flying circlips, gouged fingers, scratched pistons, contortions, or swearing. Simply slip the circlip into the Circlip Injector Sleeve, insert the Circlip Injector Plunger, and “inject” the circlip into its wrist pin groove. Quick. Painless. Joyful.

Instructions

While the Circlip Injector has been designed to eliminate flying circlips, given the “springy” nature of the circlips, you must wear SAFETY GLASSES at all times while installing them and/or using the Circlip Injector.



Figure 1



Figure 2



Figure 3

-Remove Circlip Injector Plunger from Sleeve (Figure 3).



Figure 4



Figure 5



Figure 6

-Place the Circlip Injector Sleeve on a hard surface with narrow diameter pointing up (Figure 4). Place closed end of the circlip across the opening of Circlip Injector Sleeve and using a flat screw driver (preferably one with a notch/groove ground into the tip to accept the clip), press the clip about ½ way into the Circlip Injector Sleeve (Figures 4-6). Leave about ½ or more of the circlip proud of the Circlip Injector Sleeve.



Figure 7



Figure 8

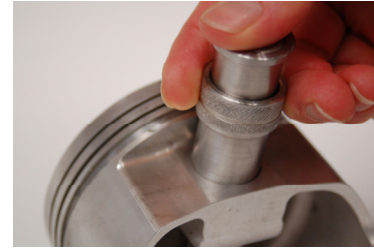


Figure 9

-Slip the Circlip Injector Plunger back into the Circlip Injector Sleeve, and while the open end of the clip is still protruding from the sleeve, slide the Circlip Injector Plunger against the closed end of the clip, being sure not to push the circlip out of the Sleeve (Figure 7). As you push the Plunger further into the sleeve, adjust the circlip so that it is no longer standing straight up and down as in Figure 6, but is at an acute angle inside the sleeve. The closed end of the circlip should now be just below the lip of the Injector Sleeve, touching the wall of the sleeve and the edge of the face of the Plunger.

IMPORTANT-

THE CIRCLIP NEEDS TO BE SLANTED IN THE INJECTOR SLEEVE SO THAT IT IS AT AN ACUTE ANGLE THE CENTERLINE OF THE TOOL, BUT STILL PROTRUDING SLIGHTLY OUT OF THE SLEEVE.

-With the circlip protruding from the Circlip Injector Sleeve, insert the circlip and Circlip Injector into the wrist pin hole of the piston (Figure 8). While pushing the Circlip Injector Sleeve firmly against the wrist pin, also push firmly with your thumb against the Plunger, pressing it until the clip snaps into place (Figure 9). Inspect the clip to make sure it is properly seated.

If you use the tool to seat a circlip into the piston prior to having it hung on the rod, (i.e., the first circlip installed in the piston), simply slide a deep socket into the hole so the Circlip Injector has a hard surface to push against.

Practice these instructions just a few times before you try for the first time in the heat of battle, and after just a couple of attempts you will see how easy the CIRCLIP INJECTOR makes this job.

PLEASE NOTE: The STOMSKI RACING CIRCLIP INJECTOR comes in SIX stock sizes- 19mm through 24mm- other sizes are available by special order. Each size should be used on its corresponding size wrist pin. Obviously a 23mm Circlip Injector will not fit into a 22mm wrist pin bore. A 22mm Circlip Injector, however, can fit into a 23mm bore, BUT should not be used this way. By compressing a 23mm circlip into a 22mm sleeve of the Injector, you risk overstressing/pinching the circlip, thus compromising the integrity of the part. Please make sure you use the proper tool for the proper job.

**FOR VIDEO INSTRUCTIONS FOR THE CIRCLIP INJECTOR
PLEASE VISIT YOUTUBE.COM AND SEARCH FOR "STOMSKI RACING"
OR TYPE IN YOUR BROWSER:
<http://www.youtube.com/watch?v=63Pe5l9qbqg>**