

- Injector Sleeve Installation and Removal Kit Instructions -

6.0L Ford Powerstroke

Always wear eye protection! Observe and follow all safety precautions for the tools being used.

REMOVAL

Remove the valve cover, oil rail and injector of the cylinder being serviced.

Push a small wad of paper towel to the bottom of the injector sleeve to prevent metal shavings from the tapping process from making their way into the cylinder.

Set the tap into the injector cup, then place the tap guide over the tap in order to keep the tap correctly aligned in the cup.

Using a tap socket and a ratchet, cut threads with the 3/4-10 tap. Keep the tap lubricated with cutting oil and tap in a normal fashion, cutting half to one full turn then backing the tap out and continuing until the tap bottoms out in the sleeve. It is critical to be sure the tap is FULLY bottomed, or the threads will not be cut sufficiently deep and may pull out.

Remove the nut and puller sleeve from the puller shaft. Then, set the puller sleeve in place over the injector bore in the cylinder head.

Next, lower the puller shaft through the puller sleeve and tighten it into the threads cut into the injector cup using a 9/16 inch socket

Place some grease onto the top of the puller sleeve where it will be contacted by the nut. Also grease the upper threaded area of the puller shaft and then install the nut. Tighten nut slowly by hand using a 28mm (or 1 and 1/8 inch) socket to release the sleeve and pull it out. In the case of extremely stubborn sleeves it may be necessary to heat the sleeve to break the Loctite bond. If extreme pressure is required, remove the puller and heat the sleeve to avoid damaging the puller or pulling the threads out of the sleeve.

Once the sleeve and puller have been removed from the head, you can separate the sleeve from the puller by cautiously clamping it in a vise. Alternately, it is possible to carefully cut the sleeve off with a die grinder or small cut-off wheel by slicing it down the side. Use great care not to damage the tool. If you are renting the tool, you may leave the old sleeve on the tool for us to remove if you prefer.

INSTALLATION

It is critically important to thoroughly clean the injector bore and ensure that it is completely dry and free of contaminants for the sleeve to seal properly. The success of the repair depends on your workmanship!

To install a new sleeve, insert the installation tool into the sleeve. Coat the sleeve with appropriate retaining/sealing compound per manufacturers specifications. Insert the tool and sleeve into bore and strike with a hammer until it bottoms out. (You will note a distinct change in tone when the sleeve is fully seated.) Remove excess retaining/sealer compound with towels and re-assemble.

