

Why you need our tools

The 7.3L Power Stroke Fuel Injectors sit in a brass sleeve that separates the injector and fuel, from the engine's coolant. These brass sleeves weaken and fatigue over time and often fail. The common symptom of a failed sleeve is finding fuel in your cooling system. The fuel system typically operates at around 60 psi of pressure, whereas the coolant system operates at a much lower pressure. When the sleeve fails, the higher pressure fuel is driven into the cooling system, and an over flowing degas bottle results.

Quality Construction

Our tools are custom made from USA materials to our specifications right here in Chardon, Ohio.

Both of the Install and Extractor Tools are made from 1144 steel and are heat treated before getting their black oxide finish to ensure a long service life.

We sell new brass injector sleeves and injector o-rings from Alliant Power, who only sell products from one of the original equipment suppliers for the 7.3 Power Stroke.

How to use our tools

1. Drain the coolant from the engine. See engine service manual for proper procedure.
2. Remove the fuel injectors. See engine service manual for proper procedure.
3. It is recommended that ALL 8 Injector Sleeves be replaced.
4. Place a piece of shop rag in the bottom of the Injector bore to block debris from falling through the nozzle hole.
5. Make sure the nut on the Extractor Tool is at least half way up the extractor, then insert the tool into the injector bore and into the old Sleeve. Using a 9/16" socket, turn the Extractor Tool clockwise and begin threading. It will be quite difficult to turn as you are cutting threads into the old Injector Sleeve.
6. Continue to turn the Tool for approximately 5 or 6 full turns.
7. Back the Tool out counter-clockwise about 1 full turn. This will aid in removing the Sleeve from the end of the Tool after extraction.
8. Using a 15/16" deep well socket turn the nut until it contacts the bushing, then continue to turn the nut until the Sleeve comes loose.
9. Lift up on the Tool and remove it from the Injector Bore and the Sleeve will be attached to the bottom of the Tool.
10. Place the Tool in a Bench vise on the flat spots of the Tool. Gently grab the small end of the Sleeve at the very tip with Pliers and unscrew the old Sleeve from the Tool. Do NOT grip the Sleeve with pliers anywhere that the Tool is threaded into the Sleeve. This may crush the sleeve around the Tool and you will need to cut the Sleeve off and possibly damage the Tool in the process. You can also use a small torch to quickly heat the old sleeve for 4 to 6 seconds to aid in removal.
11. Clean the Injector Bore with a vacuum, as there will be debris from the old retaining compound. Make sure to fully remove all remnants from the old retaining compound from the bottom of the Injector Sleeve Bore.
12. Lube the o-ring on the Insertion Tool with motor oil then slide the new Brass Sleeve onto the Insertion Tool making sure the alignment dowel protrudes through the hole in the bottom of the new Sleeve. The o-ring will keep the Sleeve secured to the tool as you insert it into the Injector Bore
13. It is recommended to apply Sleeve Retaining Compound to the very upper and very lower edges of the new Sleeve, and to the underside of the Sleeve to properly seal it in the cylinder head. You can look at an old Sleeve for exact location reference. The shiny areas at the very bottom and very top are where the Sleeve makes contact with the cylinder head. Use the Insertion Tool to hold the new Sleeve while you apply the Retaining Compound.
14. Carefully set the Insertion Tool and Sleeve into the Injector Bore visually aligning it as accurately as possible. Several hits with a dead blow hammer will set the Sleeve into place. Tap it until it won't go down any more, about 3/8" or so before it fully seats and bottoms out in the Bore.
15. Do NOT wiggle the tool back and forth to remove it. You need to pull straight up. If you move it back and forth or side to side you can snap the alignment dowel off the bottom of the Tool and it will end up in the combustion chamber requiring cylinder head removal to retrieve it. Pull straight up on the Tool and it will come right out.
16. Install your injectors and fill the engine with coolant, following proper procedures.

Warranty

Due to the nature of the required use of our tools, we cannot offer an unconditional guarantee. However, our Tools are made from harden steel and when they are used properly they will offer a long service life. The service life of the cutting edge will vary based on frequency of use, and tap cutting oil is always recommended. If the o-ring on the Insertion Tool becomes torn or ineffective, it can be replaced with a standard -213 o-ring.

Should you experience any issues with your tools whatsoever, please contact us immediately. We strive to maintain a high quality product, so please give us the opportunity to stand behind our tools.

Our 7.3 Power Stroke Injectors

We specialize in 7.3 Power Stroke injector restoration. We offer stock Overhauls to full Premium Rebuilds, from Stock power levels to High Performance applications.

All of our 7.3 Power Stroke injectors are built and tested in our own shop to ensure the highest quality product possible. Our injector warranty varies from 6 months to 1 year depending on your build level. We also sell Brand New Alliant Power injectors.

Our Injectors for '94.5 – '97 Ford Trucks:

- Stock.
- Stage-1, 160 cc, about 325 hp.*
- Stage-1.5, 160/30% nozzle, about 350 hp.*
- Stage-2, 160cc/80% nozzle, about 400 hp.*
- Stage-2.5, 200/30% nozzle, about 420 hp.*
- Stage-3, 238cc/100% nozzle, + 500 hp.*

Our Injectors for '99 – '03 Ford Trucks:

- Stock.
- Stage-2, uses 80% nozzle, about 385 hp.*
- Stage-2.5, 200/30% nozzle, about 420 hp.*
- Stage-3, 238/100% nozzle, + 500 hp*
- Stage-1 and Stage-2 Single Shot conversions

* NOTE: With correct supporting modifications.

Contact us for current Injector pricing, or check out our website:
www.RosewoodDieselShop.com.

Other Services

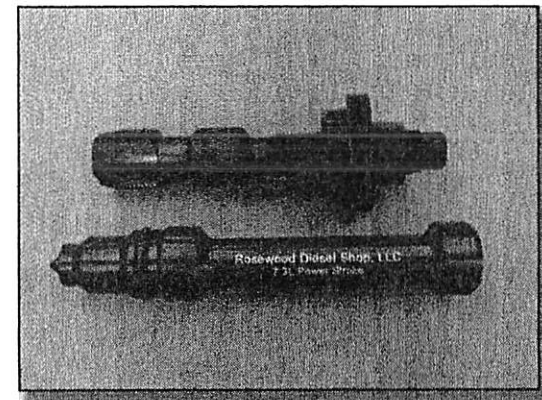
We are also a full service and repair shop for any Ford Power Stroke powered truck.

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7.3L Power Stroke Injector Sleeve tools



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