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03-07 Common Rail Injector Guide

Tools you will need

- Vise (for holding injector)	- Pliers
- 15mm wrench	- 13mm wrench
- Torque wrench	- 22mm wrench
- 19mm wrench	- 10mm socket
- 8mm socket	- 11mm socket
- 15mm socket	- 24mm socket

Caution: This system is pressurized, and can cause severe injury. Under no circumstances should the high-pressure fuel lines be loosened to bleed. The system is self-bleeding.

WARNING: When sending cores back please make sure to package each injector separately/securely to avoid any possibilities of damage during shipping.

INSTALLATION

1. Disconnect Negative Battery cables.



2. Remove 10mm bolts that hold intake, dipstick, and wiring.



3. Remove 11mm Intercooler boot clamp.
4. Remove 10mm bolts on plastic valve cover, cover.
5. Remove 10mm bolts holding upper valve cover.



6. Remove all wiring from valve cover, including 8mm injector wires.



7. Remove 10mm bolts holding riser box.



8. Remove 10mm bolts holding exhaust rocker arms, these are in the middle of the rocker, and sometimes covered in oil. Make sure to keep track of which cylinder these came from.



9. Remove exhaust rocker cross-overs. Keep these in order as well.



10. Disconnect fuel rail supply line.



11. Disconnect fuel return line from pressure limiting valve, and bend gently out of the way.



12. Disconnect 19mm high pressure lines from injector connector tubes.



13. Loosen 13mm bolts on back of head that hold bracket just behind last injector line.



14. Remove 13mm bolt from rear fuel line holder. (04.5 and up only)



15. Remove 10mm fuel line hold down.



16. Remove 10mm bolts holding fuel rail.



17. Remove fuel rail assembly.

18. Remove map sensor from intake with T15 torx.



19. Remove 15mm rear engine lift bracket bolts and bracket.



20. Remove 24mm nuts holding high pressure connector tubes.



21. Remove connector tubes.



22. Remove 8mm injector hold down bolts.



23. Carefully pry injectors out of injector bore.



If installing new nozzles follow steps 24 - 29

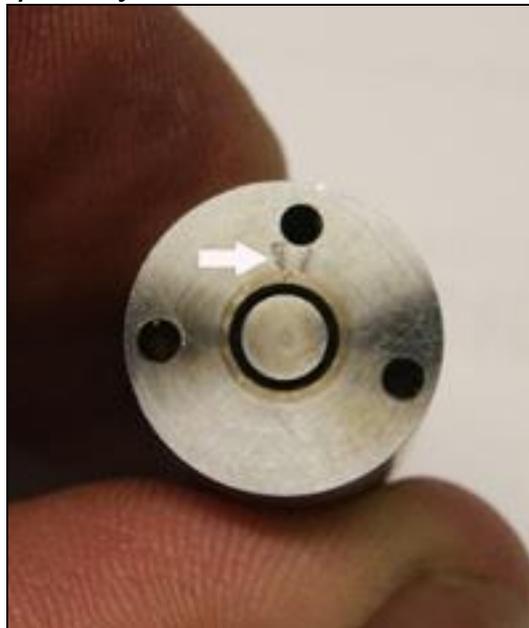
24. Use an injector hold tool to secure injector in a vise. The tool fits between the two loose collars on the injector.



25. Remove Copper washer from old injector nozzle with pliers taking care not to damage the nozzle.

26. Remove nozzle cone with a 15mm wrench.

27. Inspect nozzle for cracks. The white arrow below shows a nozzle that was cracked by elevated rail pressure from a downloader, chip or module. If you have a cracked nozzle, you must buy a new injector since your injector will be cracked as well.



28. Taking care to clean all parts, replace new Extrude Honed Nozzles, and torque to 45ft lbs.

29. Replace copper nozzle washers, with new washers.

30. Reinstall injectors into injector bores, and make sure they click into place, also make sure the injector supply hole is oriented towards the connector tube.



31. Insert connector tubes into place, balls up. Make sure they click into place.



32. Replace connector tube nuts and finger tighten.

33. Replace injector hold down bolts, and finger tighten to equal lengths on either side of each injector.

34. Torque connector tube nuts to 37ft lbs.



35. Torque injector hold down nuts to 89in. lbs.



36. Reinstall engine lift bracket torque to 57ft lbs.

37. Install fuel rail assembly.

38. Connect high pressure injector supply lines, and finger tighten.



39. Connect high pressure supply line, and finger tighten.

40. Install fuel rail bolts, and injector supply line hold downs, and torque to 18ft lbs.

41. Torque high pressure injector supply lines to 22ft lbs.



42. Install fuel line hold down bracket at rear of fuel rail, and torque to 18ft lbs.
43. Tighten high pressure supply line to 22ft lbs.
44. Reconnect fuel return line with washers, and torque to 22ft lbs.
45. Reinstall map sensor.
46. Install exhaust valve cross-overs, in same order they were removed.
47. Install exhaust valve rockers in the same order, and tighten to 27ft lbs. Make sure the pushrod is properly seated into the lifter.



48. Install riser box, and torque to 18ft lbs.
49. Install wiring onto injectors, and plug main harnesses in. Do not over tighten the nuts on top of injectors.
50. Reinstall safety bracket behind #6 injector. This is a bracket designed to keep the occupants safe from fuel in a crash. Do not discard.
51. Install upper valve cover, and torque to 18ft lbs.
52. Reinstall intake, and tighten to 18ft lbs.
53. Retighten intercooler boot.
54. Reinstall dip stick and wiring onto intake.
55. Reinstall valve cover, cover.



56. Reconnect negative battery cables, and start truck. There will be some smoke at startup that should go away within 30 seconds or so. If the truck does not start check connector tube torque. **Under no circumstances** should the high-pressure fuel lines be loosened to bleed.

Dynomite Diesel Products (DDP) Injector Limited Warranty
Terms & Conditions

Dynomite Diesel would like to thank you for purchasing this product. We truly appreciate your support. We also pledge to give you the absolute best customer service & tech support in the business. If you have a problem with our product or service, please tell us first; we will do everything in our power to correct the situation & make sure you are happy with the final outcome.

DDP & its distributors as well as dealers will not be held responsible for any damage created by this product, misuse of this product, improper install of this product, or misapplication of this product.

By purchasing this product, you agree to not hold DDP or any company or individual who sold it to you responsible for any damage caused to your vehicle, its contents and any personal injury to you, your occupants, or bystanders.

Use a Pyrometer. Do not let exhaust gas temperatures exceed 1250° pre-turbo. Make sure your pyrometer works. Make sure you are installing the right product in your truck. When in doubt, call us first to make sure it is the correct part. This is a performance part designed to enhance your vehicle. When used or installed improperly it can ruin your engine & other parts on your vehicle or cause serious injury. DDP & anyone who sells you a DDP product accepts no liability if you ruin your parts or the parts we or our dealers or distributors sold to you.

No warranty for water damage.

No warranty against dirt or contamination.

No warranty for incorrect part(s) ordered and/or installed.

DDP nor its sellers and/or installers are responsible for towing or vehicle time loss.

DDP limited warranty is on craftsmanship only.

Your original invoice is your proof of purchase for any and all warranty claims. Be sure to keep a copy!

DDP will cover one (1) replacement part for 30 days. UPS ground shipping will be used. We do request that a licensed shop determines fault. Please send a digital photo if possible along with a UPS tracking number. We will in turn ship one (1) part, no cost, to the customer.

All injectors are warrantied for one (1) year. You are responsible for shipping them to us. We will then fix or replace as necessary. See Limited Warranty Statement.

Limited Warranty Statement

Dynomite Diesel Products (DDP) is very confident in all of our parts. We do recognize however that during shipping, testing, and/or installation of injectors that changes to the injector may occur.

If failure occurs within the first year after purchase, please call DDP Sales at 208-209-3214 for trouble shooting guidelines. You must provide a UPS tracking number for returned part before new part is sent. No cash refunds will be given.

This limited warranty covers no more than one (1) injector. Statistics show that one injector failure is possible, but more than one would be caused by poor installation or contamination which is not covered by DDP.

If returned part is determined to have failed due to something other than DDP workmanship no exchange will be given.

SUPERMENTAL & COMP INJECTORS - DDP custom builds these products per application, only after custom injector order form is filled out and signed. These are custom parts therefore no refunds will be issued. These parts are built for off road race application only. No time or mileage warranty is implied.