

Tool Instruction REAR SEAL INSTALLER

4328347R1

Tool Number: 12-183-03



0000390385

Figure 1. 12-183-03 Rear Crankshaft Seal Installer.

Purpose

Essential tool to assist with installation of the rear crankshaft seal.

Application(s)

2015 PSI 8.8L Engine

Application(s) (cont.)



GOVERNMENT REGULATION: Engine fluids (oil, fuel, and coolant) may be a hazard to human health and the environment. Handle all fluids and other contaminated materials (such as filters or rags) in accordance with applicable regulations. Recycle or dispose of engine fluids, filters, and other contaminated materials according to applicable regulations.




! WARNING: To prevent property damage, personal injury, and / or death, read all safety instructions in the “Safety Information” section of the *Engine Service Manual* or *Engine Diagnostic Manual*.

! WARNING: To prevent property damage, personal injury, and / or death, park vehicle on hard flat surface, turn the engine off, set the parking brake, and install wheel chocks to prevent the vehicle from moving in either direction.

! WARNING: To prevent property damage, personal injury, and / or death, always wear safe eye protection when performing vehicle maintenance.





Tool Contents

Table 1

Image	Tool Number	Qty	Description
 <p>0000390392</p>	12-183-03-01	1	Plate Cover
 <p>0000390391</p>	12-183-03-02	1	Plate Seal
 <p>0000390390</p>	12-183-03-04	1	Nut

Tool Contents (cont.)

Table 1. (cont.)

Image	Tool Number	Qty	Description
 <p>0000390389</p>	12-183-03-05	1	Washer
 <p>0000390388</p>	12-183-03-06	1	Bearing
 <p>0000390387</p>	12-183-03-07	2	Bolt
 <p>0000160075</p>	4328347R1	1	Tool Instruction

Instructions



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Figure 2. Rear Crankshaft Flange.

1. If necessary, bring vehicle into shop and park on flat surface.
2. Shift transmission to Park or Neutral, and set parking brake.
3. Install wheel chocks.

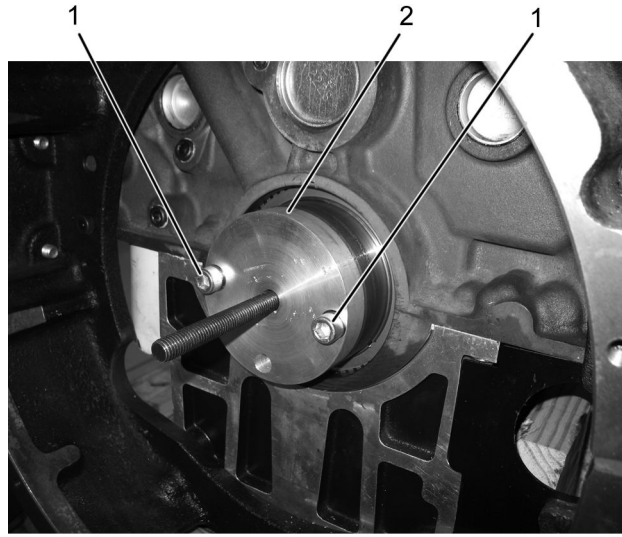
NOTE: Some components removed from graphic for clarity.

4. Access rear crankshaft flange (Figure 2). Refer to appropriate engine service manual, service bulletin, or equivalent for detailed instruction.
5. If required, remove existing rear main seal. Refer to appropriate engine service manual, service bulletin, or equivalent for detailed instruction.

CAUTION: To prevent component / engine damage, NEVER use compressed air to clean crankshaft seal area.

6. Using a clean shop towel, clean rear crankshaft seal area.

Instructions (cont.)



0000390382

Figure 3. Plate Seal.

1. Bolt (2)
 2. Plate seal
-
7. Position plate seal (Figure 3, Item 2) onto rear crankshaft flange.
 8. Install two bolts (Figure 3, Item 1) into rear crankshaft flange. Tighten bolts securely.

Instructions (cont.)



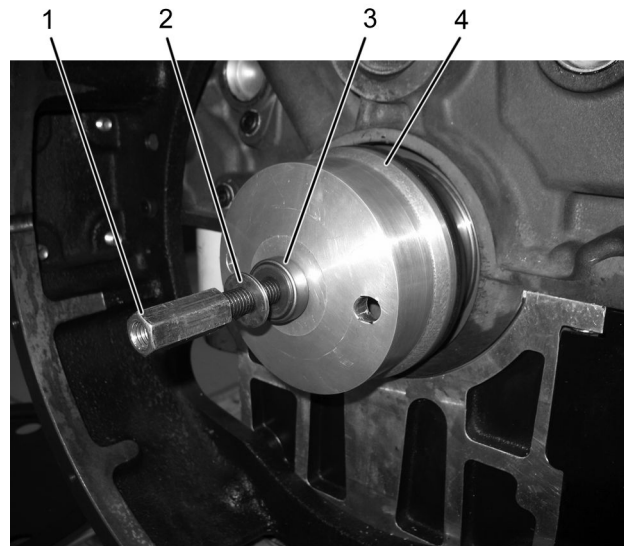
0000390383

Figure 4. Rear Main Seal.

1. Seal

9. Prepare seal for installation. Refer to appropriate engine service manual, service bulletin, or equivalent for detailed instruction.
10. Place prepared seal (Figure 4, Item 1) onto plate seal.

Instructions (cont.)



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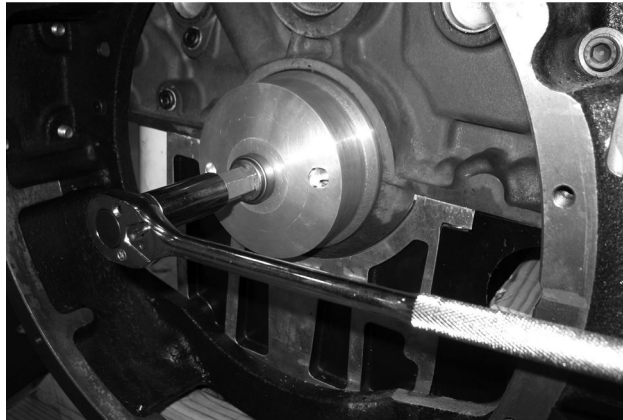
Figure 5. Rear Seal Installer Assembly.

1. Nut
2. Washer
3. Bearing
4. Cover

11. Install cover (Figure 5, Item 4) onto plate seal.

12. Install bearing (Figure 5, Item 3), washer (Figure 5, Item 2), and nut (Figure 5, Item 1) onto threaded rod.

Instructions (cont.)



0000390386

Figure 6. Plate Cover Seated.

NOTE: Holes are installed in plate cover for visual inspection of rear main seal seating.

13. Using a socket and ratchet, tighten nut to install rear main seal. Cover plate will bottom out on plate seal when seal is fully seated (Figure 6).
14. Remove nut, washer, and bearing from threaded rod.
15. Remove cover plate.
16. Remove bolts securing plate seal. Remove plate seal.
17. Install any removed components needed to access rear main seal. Refer to appropriate engine service manual, service bulletin, or equivalent for detailed instruction.
18. Remove wheel chocks.

Contact Information

If you would like to order additional tools or need replacement parts, please refer to the Navistar Service Tool Catalog. If you have questions, concerns, or feedback, please contact Navistar Service Tool Support Center:

- Submit a Service Tool iKNOW Case File.
- Phone: 800-365-0088 (toll free).