

Tool Instruction Rear Crankshaft Seal Remover

4328878R1

Tool Number: 12-183-08



0000478537

Figure 1. Rear Crankshaft Seal Remover

Purpose

Essential tool used to remove the rear crankshaft seal.

Application(s)

2024 International[®] S13 Integrated Powertrain and 2024 International[®] S13 Engine. Other applications may apply

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



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



WARNING: To prevent personal injury and / or death, or damage to property, inspect tool for wear / damage prior to use. Replace any worn or damaged components as necessary.

Tool Contents

Table 1

Image	Tool Number	Qty	Description
 <p>0000478538</p>	12-183-08	1	Rear Crankshaft Seal Remover
 <p>0000160075</p>	4328878R1	1	Tool Instruction

Instructions

IMPORTANT: Please reference International® Service PortalSM regarding any possible revisions to this document.

Instructions (cont.)

Refer to Appropriate Service Manual for detailed instructions.

Tool Installation:

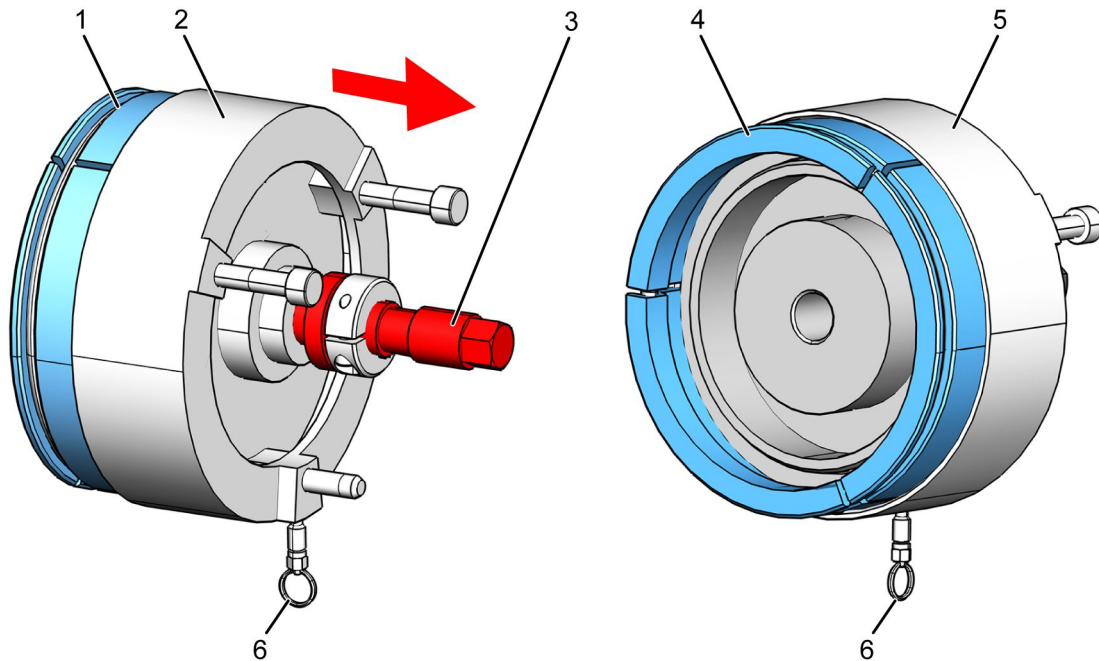
NOTE: Ensure threads and O-ring of tool are lubricated. Before using tool to remove seal. Ensure the tool is set properly.



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Figure 2. Rear Crankshaft Seal Remover

1. Dowel pin recess

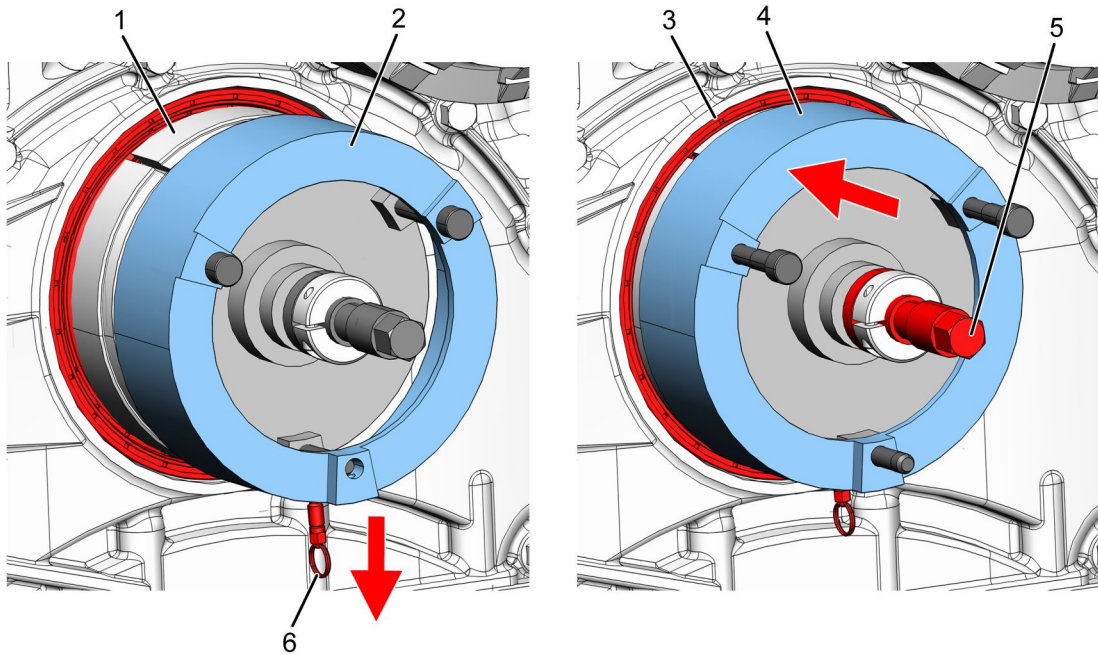


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Figure 3. Rear Crankshaft Seal Remover

1. Segmented jaws
2. Collar (lower position)
3. 16mm nut
4. Segmented jaws
5. Collar (upper position)
6. Detent ring

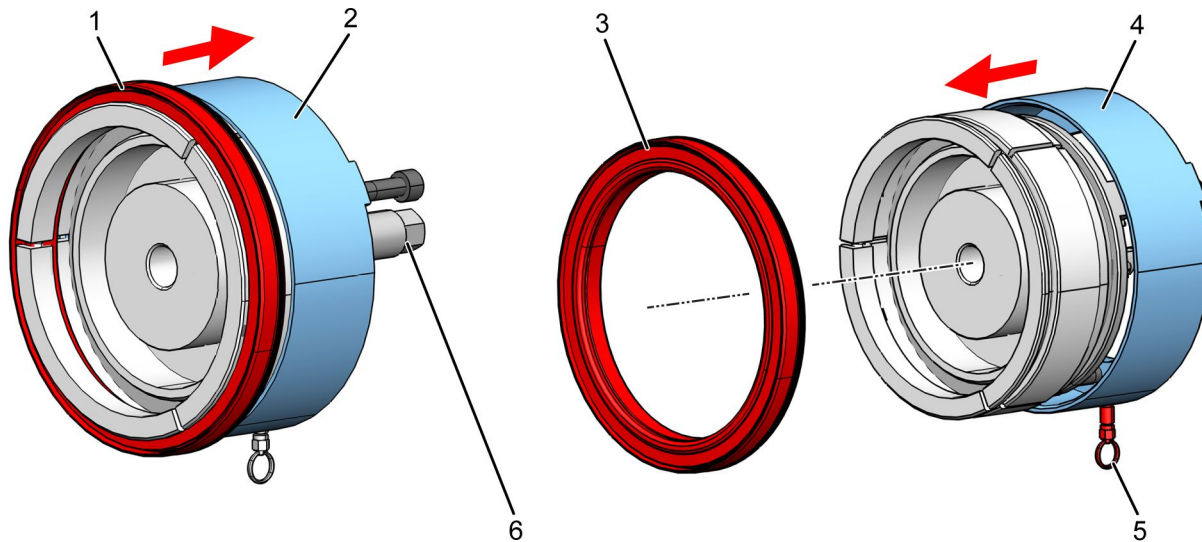
1. Align dowel recess hole of center hub with notch in outer ring. While holding center hub in place, rotate 16mm center nut to collapse tool.
2. Raise collar of tool and leave in locked upper position.
3. Ensure gaps between three segmented jaws are similar in spacing.
4. Line up location of dowel pin on crankshaft gear with the hole in tool.
5. Place tool jaws over metal lip of crankshaft seal ensuring dowel pin inserts into hole, and apply force until jaws are over crankshaft seal lip.



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Figure 4. Rear Crankshaft Seal Removal Tool Alignment

1. Segmented jaws
 2. Collar (upper position)
 3. Seal
 4. Collar (lower position)
 5. 16mm nut
 6. Detent ring
6. Pull on the detent ring to release collar from upper position, and lower the collar into position around the segmented jaws. Ensure the collar is fully seated (Figure 4, Item 4).
 7. With tool jaws over metal lip of the crankshaft seal, begin rotating center 16mm nut counter-clockwise to draw out the crankshaft seal.



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Figure 5. Rear Crankshaft Seal Disposal

1. Seal
2. Collar (lower position)
3. Seal
4. Collar (upper position)
5. Detent ring
6. 16mm nut

8. With seal (Figure 5, Item 1) on tool, raise collar (Figure 5, Item 2) to release jaw tension.
9. Remove seal (Figure 5, Item 3) from tool and discard.
10. Pull on spring loaded detent (Figure 5, Item 5) to release the collar (Figure 5, Item 4) to the lower position.
11. Holding the center portion of the tool, rotate center 16mm nut (Figure 5, Item 6) clockwise to bring tool back to collapsed state.

Care and Maintenance

- Keep tools clean and free of contaminants.
- Replace any damaged components.

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).