

Tool Instruction

Rear Crankshaft Seal Installer

4328860R2

Tool Number: 12-183-09



0000477605

Figure 1. Rear Crankshaft Seal Installer 12-183-09



Purpose

Essential tool used to install rear crankshaft seal.

Application(s)

2024 International® S13 Integrated Powertrain, 2024 International® S13 Engine. Additional vehicle applications may apply.

Tool Contents

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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.

Instructions

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

Refer to appropriate Service Manual for detailed instructions.



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Figure 2. Underside of Crankshaft Seal Installer 12-183-09

1. 0.25 in (0.64 cm) exposed thread
 1. Ensure tool is clean and threads are lubricated. Before using tool to install seal, the tool needs to be set properly.
 2. When tool is expanded beyond 0.25 inch (0.64 cm) of threads exposure, it may be difficult to collapse.
 3. Expand tool by rotating center 30 mm nut counterclockwise, until approximately 0.25 inch (0.64 cm) of thread is exposed on the opposite side (Figure 2, Item 1).
 4. Install seal onto seal installer.
 5. Locate dowel pin on crankshaft and align with hole on tool.
 6. Install tool with seal onto rear crankshaft and tighten 10 mm hardware to 16 lb-in (71.2 N·m).
- NOTE: During installation, ensure seal is being drawn in straight and square. If seal is not going in straight, stop and remove seal. Reset tool, and try installation again.**
7. Gradually rotate center 30 mm nut clockwise to draw seal into the flywheel housing. Draw seal until outer diameter of tool is pressed flush against flywheel housing.
 8. To remove tool, ensure tool is pressed flush against flywheel housing and rotate center nut counterclockwise to remove pressure from seal.
 9. Remove tool from crankshaft by loosening 10 mm hardware.

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).