

Tool Instruction Upstream SCR Puller

4328879R1

Tool Number: 18-858-01



0000478618

Figure 1. Upstream SCR Puller

Purpose

Essential tool used to remove and install the SCR1 Catalyst from the aftertreatment silencer case.

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>0000478622</p>	18-858-01	1	Upstream SCR Puller
 <p>0000160075</p>	4328879R1	1	Tool Instruction

Instructions

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

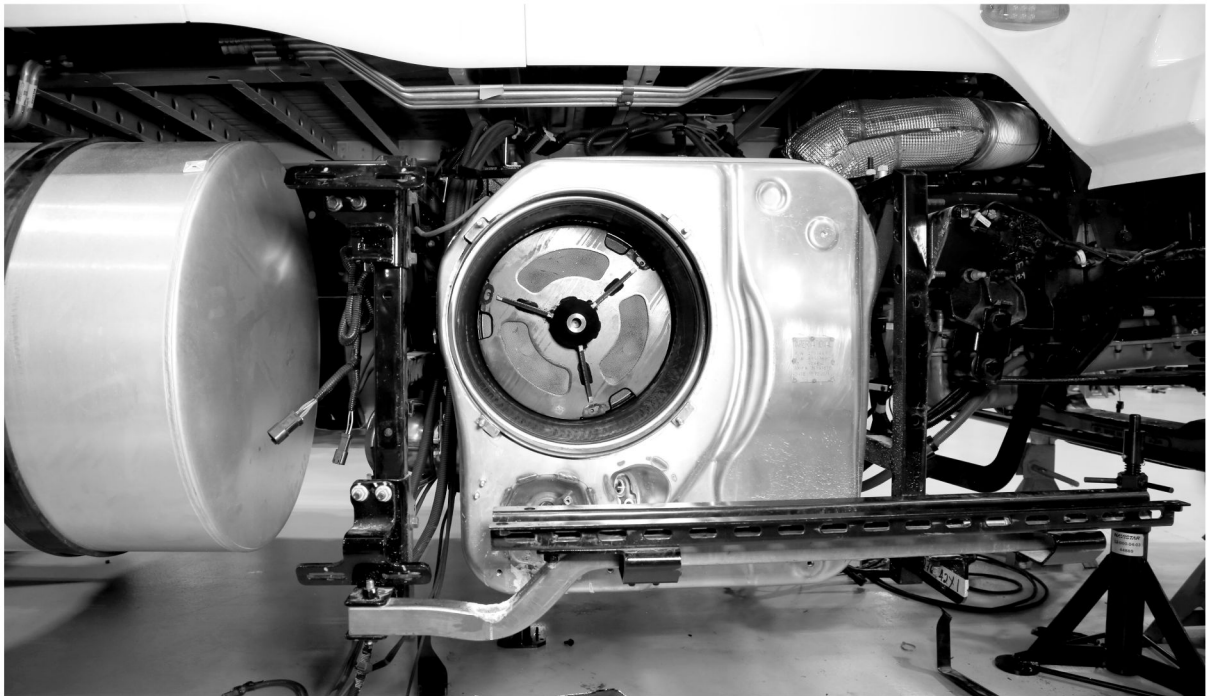
Refer to appropriate Service Manual for detailed instruction.

Tool Installation: SCR Removal



To prevent damage to property, do not install puller tool threads the full depth into Selective Catalyst Reduction (SCR) 1 brackets. Damage to the SCR 1 may occur if hardware is threaded to full depth.

1. Locate tool base and remove pin by depressing button.



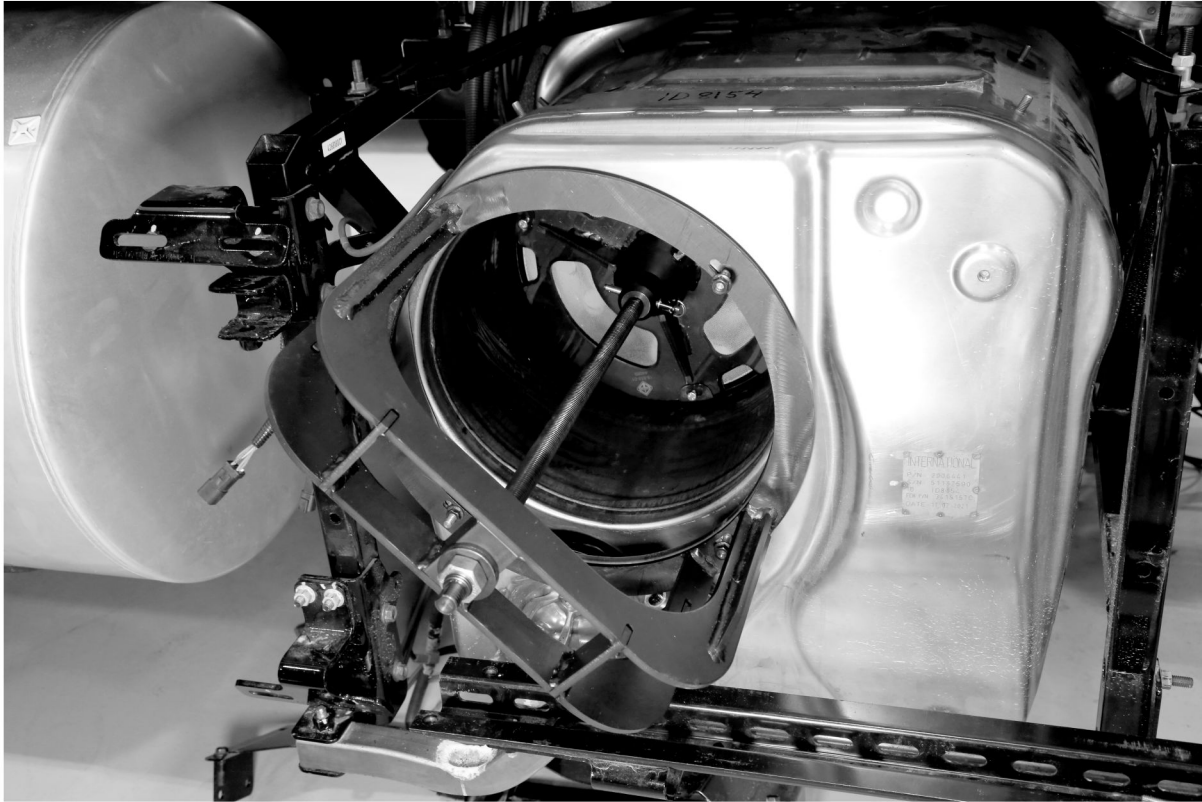
0000478620

Figure 2. SCR

NOTE: Tool base may be difficult to install on certain SCR catalysts. If unable to install base, bend tabs back slightly so the base can be rotated into place.

2. With side cover and temperature sensor removed, install tool base onto SCR1 catalyst. Note the location that pin was removed from.
3. Install tool frame onto aftertreatment silencer case and install original hardware to secure it.

Instructions (cont.)



0000478621

Figure 3. SCR Puller

4. Install threaded rod through frame and into base, then insert and lock pin in place. Ensure washers are present between the nut and tool frame.
5. Rotate center nut until it is snug against frame and begin to draw out the SCR1 catalyst.
6. Once drawn out and there is little resistance, remove pin from base and remove threaded rod.
7. Remove frame from aftertreatment silencer case.
8. Remove catalyst from aftertreatment silencer case.

Tool Removal: SCR Installation

NOTE: Do not install threads the full depth. Damage may occur if hardware is threaded to full depth.

1. Remove tool base from catalyst and install base onto new SCR1 catalyst. Do not install hardware the full depth.
2. Place SCR catalyst and base into the aftertreatment silencer case, taking care not to damage the wire mesh.
3. Move the nut down on the threaded rod so it is closer to the end with a hole in it.
4. Insert threaded rod and insert pin through rod and base, securing them together. Ensure washers are installed after the nut.

5. Install tool frame onto aftertreatment silencer case and secure using original hardware.
6. Rotate center nut counterclockwise until nut presses washers against tool frame.
7. Continue rotating center nut counterclockwise until SCR1 catalyst is installed to the proper depth.

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).