

Tool Instruction High Temperature (HT) Exhaust Gas Recirculation (EGR) Core Puller Kit

4328222R2

Tool Number: 12-892-05



0000301942

Figure 1. HT EGR Core Puller Kit.

Purpose

The 12-892-05 High Temperature (HT) Exhaust Gas Recirculation (EGR) Core Puller Kit provides tools for replacement of the HT EGR cooler core.

Application(s)

MaxxForce® 11 & 13 (EPA 10) with HD-OBD

MaxxForce® 11 & 13 (EPA 10)

N13 (EPA 10) with SCR



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 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.


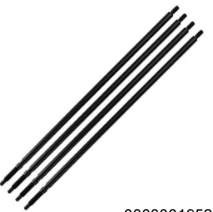
! WARNING: To prevent personal injury, and / or death. Always wear safe eye protection when performing vehicle maintenance.

CAUTION: To prevent property damage, NEVER use an impact tool with the forcing screw. Use of an impact tool can cause damage to the tool, part and will VOID Tool Warranty.

CAUTION: To prevent property damage, never use power tools when installing HT EGR cooler core into HT EGR cooler housing.





Tool Contents

Table 1

Image	Tool Number	Qty	Description
 <p>0000301941</p>	12-892-05-01	1	HT EGR Core Puller Main Body
 <p>0000301952</p>	12-892-05-02	8	HT EGR Core Puller Rod



Tool Contents (cont.)

Table 1. (cont.)

Image	Tool Number	Qty	Description
 <p>0000301953</p>	12-892-05-03	4	HT EGR Core Puller Thumb Screw
 <p>0000301954</p>	12-892-05-04	1	HT EGR Core Puller Installation Plate
 <p>0000301955</p>	12-892-05-05	10	HT EGR Core Puller Screw Kit
 <p>0000301957</p>	2511097C1	1	P-80®

Tool Contents (cont.)

Table 1. (cont.)

Image	Tool Number	Qty	Description
 <p>0000302021</p>	12-892-05-06	1	Molded Case
 <p>0000160075</p>	4328222R1	1	Tool Instruction

NOTE: THIS KIT IS SHIPPED WITH A CHEMICAL BASED PRODUCT. For Material Safety Data Sheet (MSDS) specification(s), refer to <https://evaluate.internationaldelivers.com/msds/MSDSIndex.asp>.

Instructions

Tool Installation – For Removal of HT EGR Core

NOTE: For complete service procedure, refer to Service Portal™.

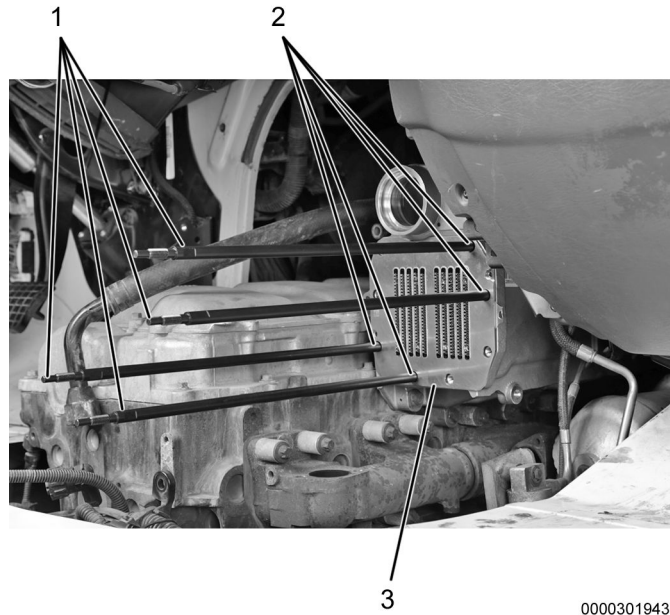


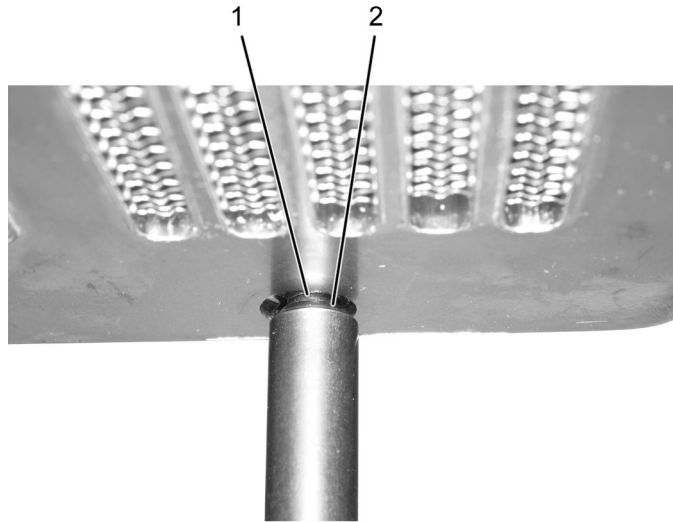
Figure 2. Threaded Rod Installation.

1. Threaded rod (4)
2. Threaded rod insertion location (4)
3. HT EGR cooler housing



Figure 3. Threaded Rod Tightening.

Instructions (cont.)



0000301956

Figure 4. Threaded Rod Insertion.

1. HT EGR cooler housing recess
2. Threaded rod bevel

NOTE: Remove magnetic plate from HT EGR cooler core puller before installing.

1. Lube all four threaded rods (Figure 2, Item 1) with anti-seize.

CAUTION: To prevent property damage, ensure threaded rods are fully inserted into EGR cooler housing. Threaded rod is fully inserted when bevel of threaded rod is flush into HT EGR cooler housing recess (Figures 3 and 4).

2. Install four threaded rods (Figure 2, Item 1) into upper right and lower left corner insertion locations (Figure 2, Item 2) of HT EGR cooler housing (Figure 2, Item 3), with bevel (Figure 4, Item 2) inserted fully into HT EGR cooler housing recess (Figure 4, Item 1).

Instructions (cont.)

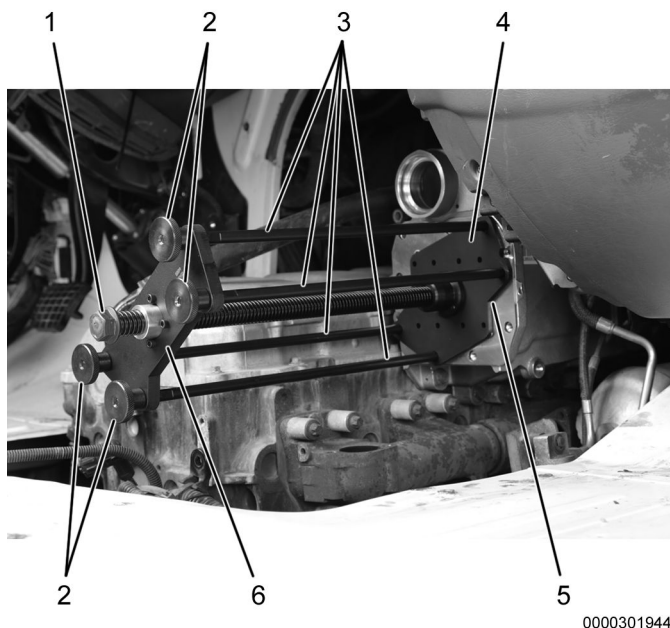


Figure 5. Puller Assembly Installation.

1. Forcing screw
2. Thumb screw (4)
3. Threaded rod (4)
4. Removal plate
5. HT EGR cooler core
6. Puller assembly

3. Install puller assembly (Figure 5, Item 6) onto four threaded rods (Figure 5, Item 3).
4. Install four thumb screws (Figure 5, Item 2), hand tight, onto four threaded rods (Figure 5, Item 3).

CAUTION: To prevent property damage, NEVER use an impact tool with the forcing screw. Use of an impact tool can cause damage to the tool, part, and will VOID Tool Warranty.

5. Tighten forcing screw (Figure 5, Item 1), hand tight, until removal plate (Figure 5, Item 4) is flush against HT EGR cooler core (Figure 5, Item 5).

Instructions (cont.)

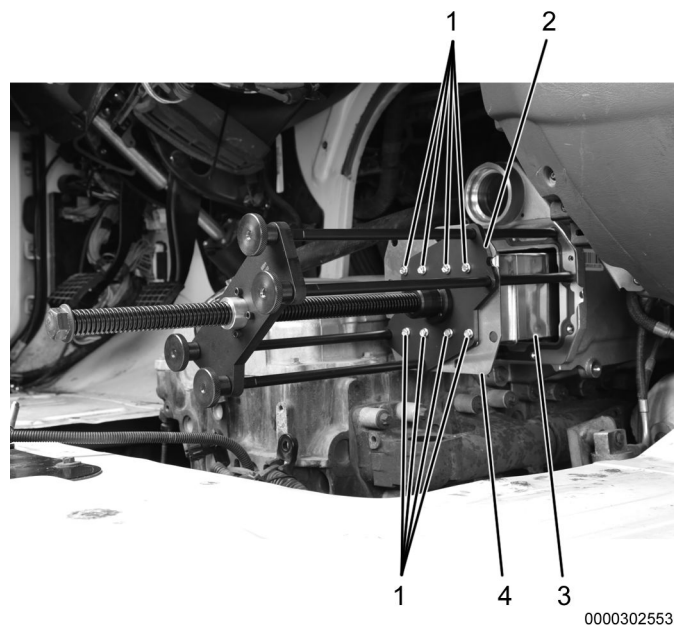


Figure 6. Self-Tapping Screw Installation.

1. Self-tapping screw (8)
2. Removal plate
3. HT EGR cooler core
4. HT EGR cooler core flange

CAUTION: To prevent property damage, never use power tools when installing HT EGR cooler core into HT EGR cooler housing.

CAUTION: Do not overtighten self-tapping screws. Failure to comply may result in property damage.

6. Install 8 self-tapping screws (Figure 6, Item 1) into HT EGR cooler core (Figure 6, Item 3) until HT EGR cooler core flange (Figure 6, Item 4) is up against back of removal plate (Figure 6, Item 2).

Instructions (cont.)

Tool Removal – After Removal of HT EGR Core

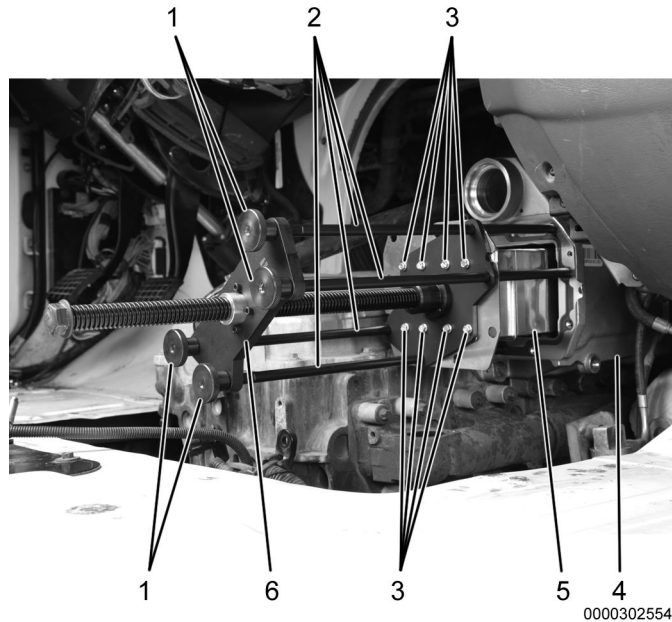


Figure 7. HT EGR Cooler Core Removal.

1. Thumb screw (4)
 2. Threaded rod (4)
 3. Self-tapping screw (8) (three not shown)
 4. HT EGR cooler housing
 5. HT EGR cooler core
 6. Puller assembly
-
1. Remove 8 self-tapping screws (Figure 7, Item 3) and puller assembly (Figure 7, Item 6) from HT EGR cooler core (Figure 7, Item 5).
 2. Remove four thumb screws (Figure 7, Item 1) from four threaded rods (Figure 7, Item 2).
 3. Remove four threaded rods (Figure 7, Item 2) from HT EGR cooler housing (Figure 7, Item 4).
 4. Clean and store HT EGR core puller kit.

Instructions (cont.)

Tool Installation – For Installation of HT EGR Core

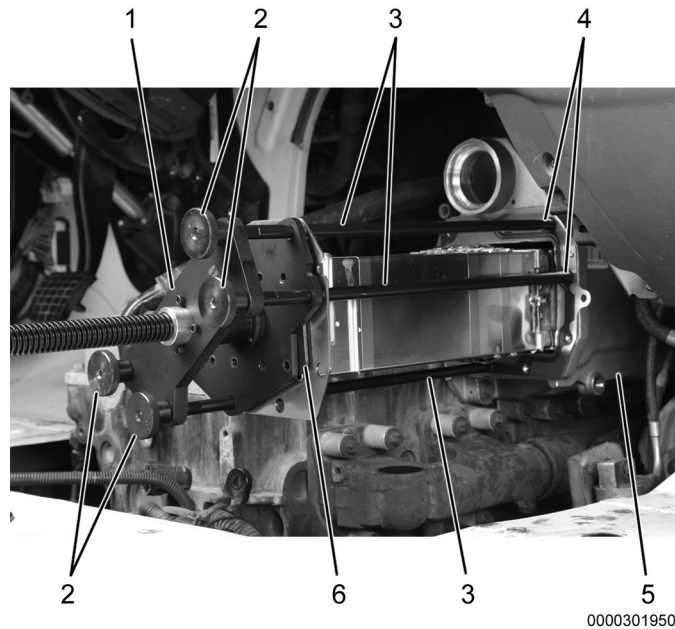


Figure 8. HT EGR Cooler Core Installation.

1. Puller assembly
2. Thumb screw (4)
3. Threaded rod (4) (one not shown)
4. Threaded rod insertion location (4) (two not shown)
5. HT EGR cooler housing
6. Installation plate

1. Lube all four threaded rods (Figure 8, Item 3) with anti-seize.

CAUTION: Ensure threaded rods are fully inserted into EGR cooler housing. Threaded rod is fully inserted when bevel of threaded rod is flush into HT EGR cooler housing recess. Failure to comply may result in property damage.

NOTE: Ensure core-to-housing gasket is installed before performing Step 2.

2. Install four threaded rods (Figure 8, Item 3) into upper right and lower left corner insertion locations (Figure 8, Item 4) of HT EGR cooler housing (Figure 8, Item 5).

NOTE: Make sure magnets on installation plate are recessed into removal plate.

3. Install installation plate (Figure 8, Item 6) onto puller assembly (Figure 8, Item 1).
4. Install puller assembly (Figure 8, Item 1), with installation plate (Figure 8, Item 6), onto four threaded rods (Figure 8, Item 3).
5. Install four thumb screws (Figure 8, Item 2) onto four threaded rods (Figure 8, Item 3).

Instructions (cont.)

Tool Removal – After HT EGR Core Installation

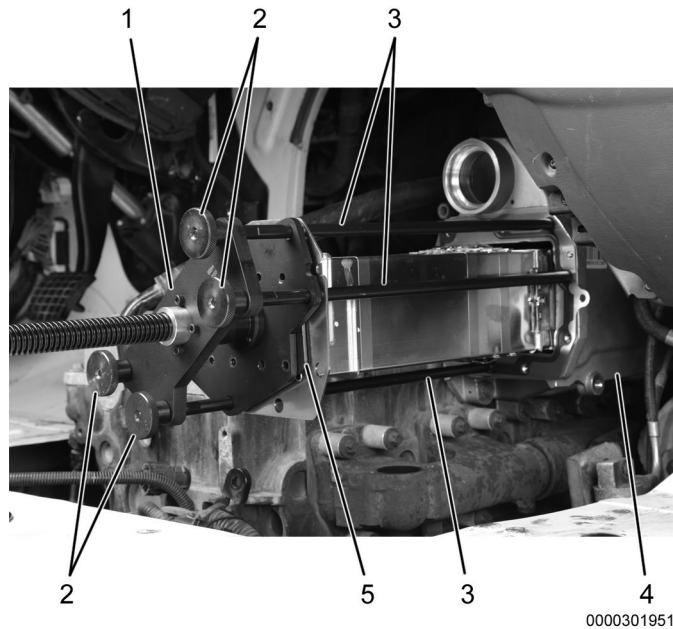


Figure 9. Puller Assembly Removal.

1. Puller assembly
2. Thumb screw (4)
3. Threaded rod (4) (one not shown)
4. HT EGR cooler housing
5. Installation plate.

CAUTION: Never use power tools when installing HT EGR cooler core into HT EGR cooler housing. Failure to comply may result in property damage.

1. Remove four thumb screws (Figure 9, Item 2) from four threaded rods (Figure 9, Item 3).
2. Remove puller assembly (Figure 9, Item 1), with installation plate (Figure 9, Item 5) from HT EGR cooler housing (Figure 9, Item 4).
3. Remove four threaded rods (Figure 9, Item 3) from HT EGR cooler housing (Figure 9, Item 4).
4. Clean and store HT EGR core puller kit.

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).