

Tool Instruction Exhaust Gas Recirculation (EGR) Pressure Test Adapter Kit

4328297R1

Tool Number: 12-892-07



0000367761

Figure 1. 12-892-07 EGR Pressure Test Adapter Kit.

Purpose

Essential tool designed for use in testing for leaks on the EGR cooler utilizing air pressure and water.

Application(s)

2015 Navistar® N13 (EPA 10)



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, 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.

Tool Contents

Table 1

Image	Tool Number	Qty	Description
 <p>0000367802</p>	12-892-07-01	1	Exhaust Gas Outlet Plug
 <p>0000367805</p>	12-892-07-02	1	Exhaust Gas Inlet Adapter
 <p>0000367806</p>	12-892-07-03	1	Main Cab Heat Plug

Tool Contents (cont.)

Table 1. (cont.)

Image	Tool Number	Qty	Description
 <p>0000367861</p>	12-892-07-04	1	Bubble Test Hose Assembly
 <p>0000367821</p>	12-892-07-05	1	Sleeper Cab Heat Block-Off
 <p>0000367862</p>	12-892-07-06	1	Coolant Inlet Block-Off
 <p>0000367863</p>	12-892-07-07	1	Coolant Outlet Clamp Assembly
 <p>0000367803</p>	12-892-07-08	1	Regulator Assembly

Tool Contents (cont.)

Table 1. (cont.)

Image	Tool Number	Qty	Description
 <p>0000367804</p>	12-892-07-09	1	EGR Valve Supply Adapter
 <p>0000367801</p>	12-892-07-10	3	EGR Valve Return, Degas, and Coolant Filter Supply Plugs
 <p>0000367864</p>	12-892-07-11	1	Case with Foam
 <p>0000160075</p>	4328297R1	1	Tool Instruction

Instructions

Tool Installation

1. Bring vehicle into shop and park vehicle on flat surface with wheels straight ahead
2. Shift transmission to Park or Neutral and set parking brake.
3. Install wheel chocks.
4. Unlatch and open hood.
5. Remove EGR cooler from vehicle. Refer to appropriate engine service manual, service bulletin, or equivalent for detailed instruction. Place EGR cooler on bench.

Instructions (cont.)

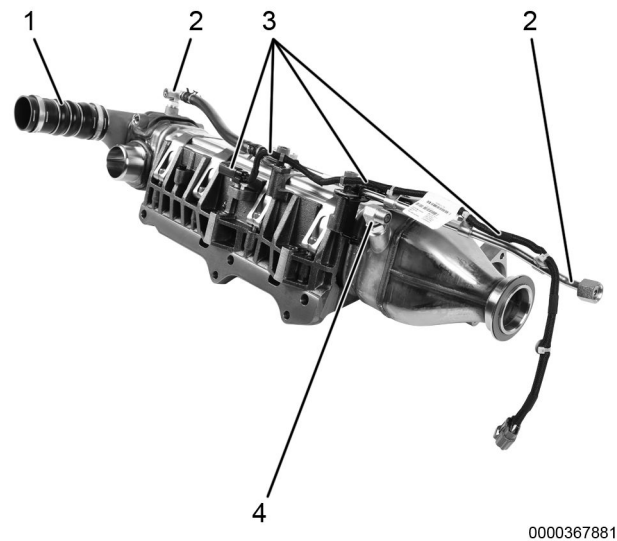


Figure 2. EGR Cooler Supply and Return Lines / Harness.

1. EGR cooler gas outlet hose
 2. EGR valve return and deaeration fitting
 3. EGR valve harness
 4. EGR valve supply
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6. Remove EGR cooler gas outlet hose (Figure 2, Item 1), EGR valve return lines, deaeration fitting, and if necessary, EGR valve harness (Figure 2, Items 2 and 3). Refer to appropriate engine service manual, service bulletin, or equivalent for detailed instruction.
 7. Remove EGR valve supply (Figure 2, Item 4).

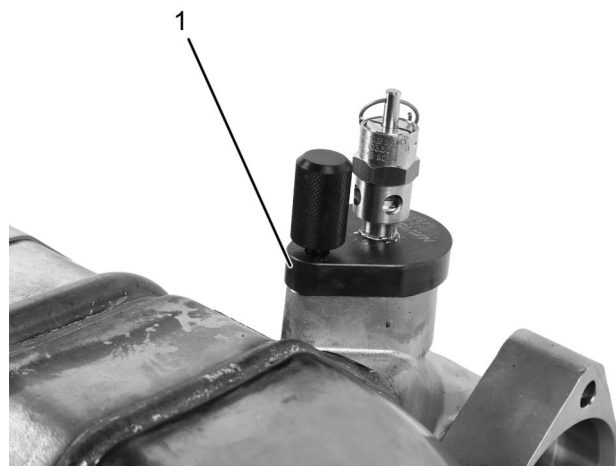
Instructions (cont.)



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Figure 3. 12-892-07-02 Exhaust Gas Inlet Adapter.

1. Exhaust gas inlet adapter
8. Install exhaust gas inlet adapter (Figure 3, Item 1) into EGR cooler exhaust gas inlet port. Tighten knurled ring to seal.

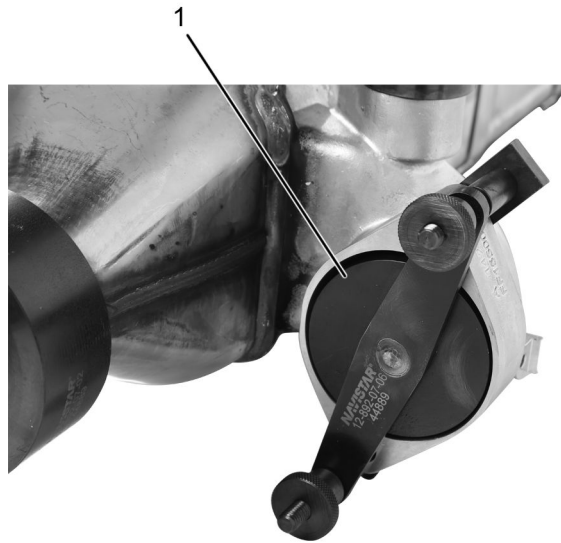


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Figure 4. 12-892-07-03 Main Cab Heat Plug.

1. Main cab heat plug
9. Align and install main cab heat plug (Figure 4, Item 1) into EGR cooler main cab heat port. Tighten knurled knob to seal.

Instructions (cont.)



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Figure 5. 12-892-07-06 Coolant Inlet Block-Off.

1. Coolant inlet block-off
10. Align and install coolant inlet block-off (Figure 5, Item 1) into EGR cooler coolant inlet port. Tighten knurled knobs to seal.

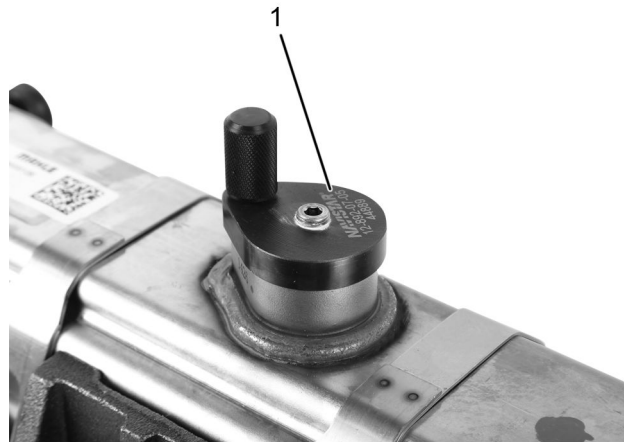


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Figure 6. 12-892-07-09 EGR Valve Supply Adapter.

1. EGR valve supply adapter
11. Align and install EGR valve supply adapter (Figure 6, Item 1) into EGR valve supply port.

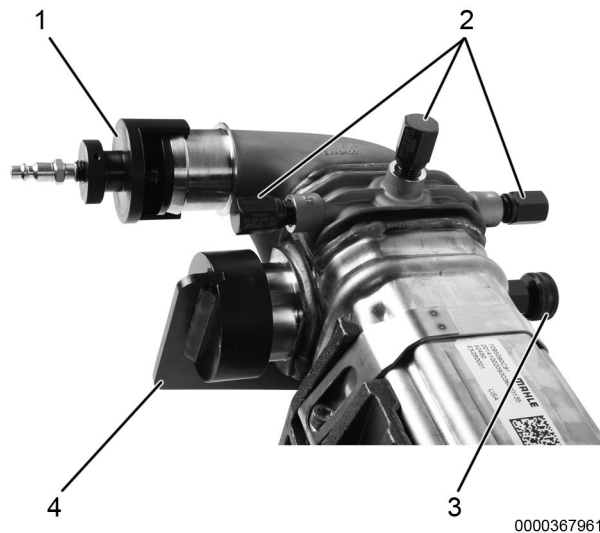
Instructions (cont.)



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Figure 7. 12-892-07-05 Sleeper Cab Heat Block-Off.

1. Sleeper cab heat block-off
12. If vehicle is equipped with bunk heater, remove bunk heater port connector from port. Align and install sleeper cab heat block-off (Figure 7, Item 1). Tighten knurled knob to seal.



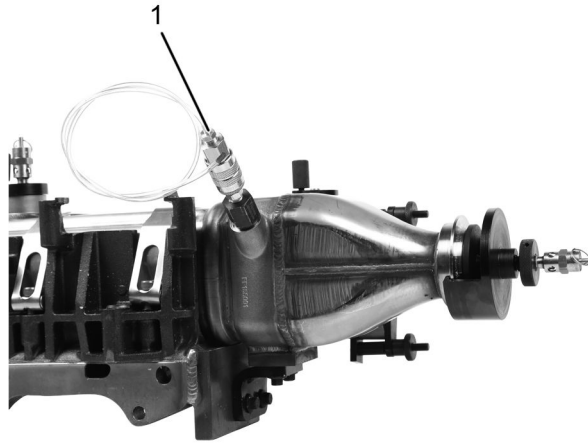
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Figure 8. Rear Pressure Test Adapters.

1. 12-892-07-01 Exhaust Gas Output Plug
2. 12-892-07-10 EGR Valve Return, Degas, and Coolant Filter Supply Plugs (3)
3. 12-892-07-07 Coolant Outlet Clamp Assembly
4. Coolant outlet clamp assembly knurled knob
13. Align and install exhaust gas outlet plug (Figure 8, Item 1) into EGR cooler exhaust gas outlet port. Tighten knurled ring to seal.
14. Align and install plugs (Figure 8, Item 2).

Instructions (cont.)

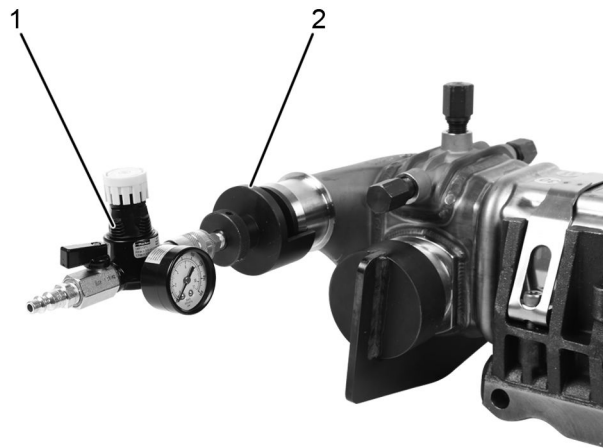
15. Align and install coolant outlet clamp assembly (Figure 8, Item 4) into EGR cooler coolant return port. Tighten knurled knob to seal (Figure 8, Item 3).



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Figure 9. Bubble Test Hose Assembly.

1. 12-892-07-04 Bubble Test Hose Assembly
16. Install bubble test hose assembly (Figure 9, Item 1) to EGR valve supply adapter.
 17. Place end of bubble test hose into beaker of water.



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Figure 10. Regulator Assembly.

1. 12-892-07-08 Regulator Assembly
 2. Exhaust gas output plug
18. Install regulator (Figure 10, Item 1) to plug (Figure 10, Item 2).
 19. Perform pressure test. Refer to appropriate service manual, service bulletin, or equivalent for detailed instruction.

Instructions (cont.)

Tool Removal

1. Remove regulator (Figure 10, Item 1) from plug.
2. Remove bubble test hose assembly (Figure 9, Item 1) from EGR valve supply adapter.
3. Remove coolant outlet clamp assembly (Figure 8, Item 4) from EGR cooler coolant return port.
4. Remove block-off plugs (Figure 8, Item 2).
5. Remove exhaust gas outlet plug (Figure 8, Item 1) from EGR cooler exhaust gas outlet port.
6. If vehicle is equipped with bunk heater, remove sleeper cab heat block-off (Figure 7, Item 1). Install bunk heater port connector to port.
7. Remove exhaust gas inlet adapter (Figure 3, Item 1) from EGR cooler exhaust gas inlet port.
8. Remove EGR valve supply adapter (Figure 6, Item 1) from EGR valve supply port.
9. Remove coolant inlet block-off (Figure 5, Item 1) from EGR cooler coolant inlet port.
10. Remove main cab heat plug (Figure 4, Item 1) from EGR cooler main cab heat port.
11. Install EGR valve return line, deaeration fitting, EGR cooler gas outlet hose, and if necessary, EGR valve harness (Figure 2, Items 1 - 4). Refer to appropriate engine service manual, service bulletin, or equivalent for detailed instruction.
12. Install EGR cooler into vehicle. Refer to appropriate engine service manual, service bulletin, or equivalent for detailed instruction.
13. Close and latch hood.
14. 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).