

## Tool Instruction Diesel Particulate Filter Differential Pressure (DPFDP) Test Harness

4328299R1

Tool Number: 12-999-02-01



0000370306

Figure 1. 12-999-02-01 DPFDP Test Harness.

### Purpose

Essential tool used in conjunction with the 12-999-02 Sensor Simulation Test Tool for testing aftertreatment efficiency. Interfacing with the Diesel Particulate Filter Differential Pressure (DPFDP) sensor, the Sensor Simulation Test Tool receives the truck's existing Voltage Reference (VREF) signal and varies that signal with an allowable window to simulate operating conditions.

### Application(s)

Various

## 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 or death, allow engine to cool before performing service or diagnostic procedures.

**! WARNING:** To prevent property damage, personal injury, and / or death, before working on the exhaust system, allow sufficient time for cooldown. During regeneration, exhaust gas temperature could reach 1500°F (800°C), and exhaust system surface temperature could exceed 1300°F (700°C), which is hot enough to ignite or melt common materials, and to burn skin. The exhaust and exhaust components can remain hot after the vehicle has stopped moving.

**! WARNING:** To prevent property damage, personal injury, and / or death, keep exhaust components away from people and flammable materials, vapors, or structures, and **STOP ENGINE**. Exhaust components, operating under normal conditions, and exhaust gases are at extremely high temperatures.

**! WARNING:** To prevent property damage, personal injury, and / or death, maintain adequate clearance between all parts of the exhaust system and all hoses, wires, and lines for engine cooling, brake system, fuel system, power steering system, and electrical system. Heat damage to hoses and wires may cause vehicle malfunction.



**! 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

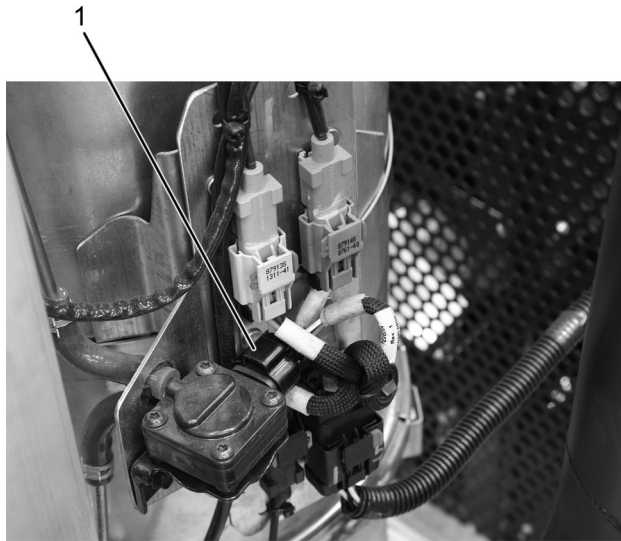
Image	Tool Number	Qty	Description
 0000369381	12-999-02-01	1	DPFDP Test Harness
 0000160075	4328299R1	1	Tool Instruction

## Instructions

### Tool Installation

1. Bring vehicle into shop, park vehicle on flat surface with wheels straight ahead.
2. Shift transmission to Park or Neutral and set parking brake.
3. Turn vehicle off and allow to thoroughly cool down.
4. Install wheel chocks.
5. Access Diesel Particulate Filter Differential Pressure (DPFDP) sensor. Refer to appropriate engine service manual, service bulletin, or equivalent for detailed instruction.

## Instructions (cont.)

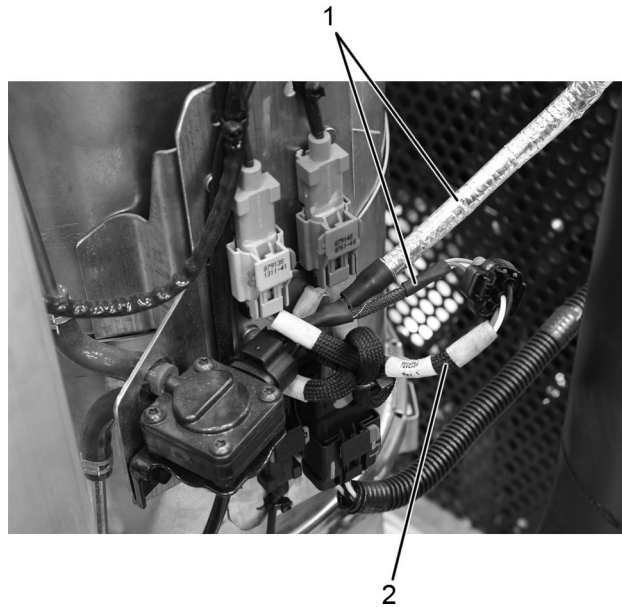


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**Figure 2. DPFDP Sensor Harness.**

1. Harness connector
6. Disconnect harness connector (Figure 2, Item 1) from DPFDP sensor.

## Instructions (cont.)



**Figure 3. 12-999-02-01 DPFDP Test Harness.**

1. DPFDP test harness
  2. Sensor harness
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7. Connect kit-supplied DPFDP test harness (Figure 3, Item 1) to sensor.
  8. Connect existing sensor harness (Figure 3, Item 2) to DPFDP test harness.

## Instructions (cont.)



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**Figure 4. Sensor Simulation Harness.**

1. DPFDP test harness
  2. 12-999-02 Sensor Simulation Test Tool Harness
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9. Connect sensor simulation harness (Figure 4, Item 2) to DPFDP test harness (Figure 4, Item 1). Secure harness away from exhaust using velcro strap.
  10. Perform simulation test. Refer to appropriate service manual, service bulletin, or equivalent for detailed testing procedure.

### **Tool Removal**

1. Disconnect sensor simulation harness (Figure 4, Item 2) from DPFDP test harness (Figure 4, Item 1). Detach velcro strap.
2. Disconnect DPFDP test harness (Figure 3, Item 1) from existing sensor harness (Figure 3, Item 2) and DPFDP sensor.
3. Connect DPFDP sensor harness connector (Figure 2, Item 1) to sensor.
4. 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).