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**IMPORTANT WARRANTY INFORMATION**

REF **14-029**  
 Effective 08/04/2014  
 Release 08/04/2014  
 SUBJECT New Detroit Standard Diagnostic Times

**❖ Detroit Standard Diagnostic Times**

As a result of collaboration with the Joint Application Development (JAD) committee, DTNA created Standard Diagnostic Times (SDTs) to support the service network and streamline the claims submittal process. The Detroit Warranty Department has created new Standard Diagnostic Times (SDTs) in addition to the previously released SDTs identified in Important Warranty Letter 14-006 and Detroit Warranty Operation Letter 14-WO-7. The new SDTs are available for immediate use.

There are three levels of SDTs: Easy, Moderate, and Difficult. Select the level of SDT that matches the diagnostics performed. Refer to the *Includes* and *Comments* fields under each SDT in the Detroit Warranty System to review the operations that are included. Additional diagnostic time required beyond the SDT can be added as a separate line item in the claim. Be sure to explain each operation performed in the claim story.

**❖ New Engine SDTs**

- New SDTs were created for the following:
- Engine Sensor Harness
  - Sensors-Detroit Sensor – Fuel, Oil, Coolant (Temperature, Pressure, or Magnetic)
  - Exhaust Gas Recirculation (EGR) Cooler
  - Water Pump
  - Air Compressor
  - ATS-DEF Pump Main Filter (GHG14 Engines Only)
  - Coolant Loss

**IMPORTANT WARRANTY INFORMATION LETTER**

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❖ **Labor Operation**

Refer to the tables below for a full list of the new SDTs, along with a brief description of what is included in each SDT.

Engine Sensor Harness		
EZ	Moderate	Difficult
<p><b>0.3 Hour</b></p> <p><b>021905A</b>                      Engine Sensor Harness Diagnostics – Easy</p> <p>Complete preliminary and visual diagnostics. Identify the fault codes. Key on, engine off comparison between sensors. Verification of module software.</p> <p>Typically used if the harness is damaged, cut or rubbed, through the protective loom.</p>	<p><b>1.0 Hour</b></p> <p><b>021905B</b>                      Engine Sensor Harness Diagnostics – Moderate</p> <p>Complete preliminary and visual diagnostics. Identify the fault codes, access to the sensor connector for inspection. Removing the 120 pin connector on the Motor Control Module (MCM) for inspection. Inspection of the connector body for damage and/or contamination. Inspection of the pins in the connector for damage.</p> <p>Typically used for an internal damaged connector. Missing/damaged seals.</p>	<p><b>1.5 Hour</b></p> <p><b>021905E</b>                      Engine Sensor Harness Diagnostics – Difficult</p> <p>Complete preliminary and visual diagnostics. Identify the fault codes, access to the sensor connector for inspection. Removing the 120 pin connector on the Motor Control Module (MCM) for inspection. Conduct any necessary circuit testing such as measuring resistances and voltages. Disassembly of the harness to identify the damaged wire(s). Determining if the harness should be repaired or replaced. Completion of diagnostics.</p> <p>Typically used for faulty wire(s) between the MCM and sensor/actuator.</p>
Sensors - Detroit Sensor - Fuel, Oil, Coolant, Air (Temperature, Pressure, or Magnetic)		
EZ	Moderate	Difficult
<p><b>0.3 Hour</b></p> <p><b>021800A</b>                      Sensors Diagnostics – Easy</p> <p>Complete preliminary and visual diagnostics. Identify the fault codes. Key on, engine off comparison between sensors. Verification of module software.</p> <p>Typically used for a fault sensor that is leaking external or has a broken body.</p>	<p><b>0.5 Hour</b></p> <p><b>021800B</b>                      Sensors Diagnostics – Moderate</p> <p>Complete preliminary and visual diagnostics. Identify the fault codes, access to the sensor connector for inspection. Removing the 120 pin connector on the module for inspection. Inspection of the connector body for damage and/or contamination. Inspection of the pins for damage.</p> <p>Typically used when oil, fuel, DEF, water or coolant enters in the connector/harness through a faulty sensor.</p>	<p><b>1.0 Hour</b></p> <p><b>021800E</b>                      Sensor Diagnostics – Difficult</p> <p>Complete preliminary and visual diagnostics. Identify the fault codes, access to the sensor connector for inspection. Removing the 120 pin connector on the module for inspection. Inspection of the connector body for damage and/or contamination. Inspection of the pins for damage. Conduct any necessary circuit testing. Measuring resistance and voltages as required during the diagnostics. Completion of diagnostics.</p> <p>Typically use for a circuit failure of a sensor; failed high, failed low, or drifted.</p>
<p>Sensor - Detroit Sensor – Fuel, Oil, Coolant, Air (Temperature, Pressure, Magnetic) can be used with any sensor supplied by Detroit for the following systems Engine, After Treat, or Optimize Idle.</p>		

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EGR Cooler		
EZ	Moderate	
<p><b>0.3 Hour</b></p> <p><b>061007A</b> EGR Cooler Diagnostics – Easy</p> <p>Complete preliminary and visual diagnostics.</p> <p>Typically used for an EGR Cooler that is leaking coolant or soot externally.</p>	<p><b>1.5 Hour</b></p> <p><b>061007C</b> EGR Cooler Diagnostics – Moderate</p> <p>Complete preliminary and visual diagnostics. Identifying combustion gases in the coolant. Pressure testing the EGR cooler.</p> <p>Typically used for an EGR cooler that is cracked internally.</p> <p>Note: This SDT should not be used if an Advanced Diagnostic SRT is provided, refer to 11-TS-3REV.</p>	
Water Pump		
EZ	Moderate	Difficult
<p><b>0.5 Hour</b></p> <p>051001A Water Pump Diagnostics – Easy</p> <p>Connect the computer and check for fault codes. Inspect belt drive, fan, and coolant level.</p>	<p><b>1.0 Hour</b></p> <p>051001B Water Pump Diagnostics – Moderate</p> <p>Connect the computer and check for fault codes. Inspect belt drive, fan, coolant level, and radiator. Pressure test cooling system, test fan operation.</p>	<p><b>1.5 Hour</b></p> <p>051001E Water Pump Diagnostics – Difficult</p> <p>Connect the computer and check for fault codes. Inspect belt drive, fan, and coolant level. Pressure test cooling system, test fan operation. Test thermostat operation.</p>
Air Compressor		
Will Not Build Air Pressure or Slow to Build Air Pressure	Oil at Purge Valve, Dryer Cartridge or Reservoir	
<p><b>1.2 hour</b></p> <p><b>124000B</b> Air Compressor - Will Not Build Air Pressure or Slow to Build Air Pressure - Diagnostics</p> <p>Inspecting and testing the air system for leaks. Verifying the air compressor displacement is correct for the application. Inspecting for damaged air lines. Inspection of the air dryer cartridge and verification of its service life. Measuring Air inlet restriction. Inspecting for a damaged air compressor inlet line/hose and metal debris in the air compressor ports. Performing the Air Compressor Unloader Leakage Test.</p>	<p><b>1.7 hour</b></p> <p><b>124000C</b> Air Compressor - Oil at Purge Valve, Dryer Cartridge or Reservoir - Diagnostics</p> <p>Inspecting and testing the air system for leaks. Inspecting for damaged air lines. Verifying the discharge line length. Measuring Air inlet restriction. Inspecting for a damaged air compressor inlet line/hose and debris in the air compressor ports. Performing the air compressor governor system leakage test. Inspection of the air dryer cartridge and verification of its service life.</p>	
ATS-DEF Pump Main Filter (GHG14 - Airless Dosing System Only)		
EZ	Moderate	Difficult
<p><b>0.3 Hour</b></p> <p><b>061505A</b> DEF Pump Main Filter Diagnostics- Easy</p> <p>Preliminary visual inspection and diagnostics. Perform SCR ADS Self-check to verify system operation.</p>	<p><b>1.0 Hour</b></p> <p><b>061505B</b> DEF Pump Main Filter Diagnostics- Moderate</p> <p>Visually inspect the wiring and connectors for the DEF pump, DEF Dosing unit. Inspect and/or use a test strip to check for DEF contamination. Inspect DEF lines for damage.</p>	<p><b>1.5 Hour</b></p> <p><b>061505E</b> DEF Pump Main Filter Diagnostics- Difficult</p> <p>Completion of published diagnostics, Removal of all DEF lines to check for restrictions and flow. SCR Quantity Test or SCR ADS Self-check.</p>

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Coolant Loss		
EZ	Moderate	Difficult
<b>0.3 Hour</b>	<b>0.5 Hour</b>	<b>1.0 Hour</b>
<b>051000A</b> Coolant Loss Diagnostics – Easy	<b>051000B</b> Coolant Loss Diagnostics – Moderate	<b>051000E</b> Coolant Loss Diagnostics – Difficult
<b>Coolant loss found during visual inspection.</b>	<b>No external coolant loss found. Coolant loss found during cross contamination inspection.</b>	<b>No external coolant loss found. No cross contamination. Coolant loss due to engine consuming coolant.</b>
<b>The primary failed part is typically a coolant hose or tube leaking externally.</b>	<b>The primary failed part is typically an Oil Cooler, Oil/Coolant Filter Module or Fuel Cooler.</b>	<b>The primary failed part is typically includes Cylinder Head/gasket or Cylinder liner/seal</b>

The new SDTs are available in the applicable Labor Time Guide as well as at [www.ddcsn.com](http://www.ddcsn.com) > Warranty > Warranty Applications > Warranty System > Labor > SRTs > SRT Search. Any questions or feedback regarding these new enhancements may be addressed through the Warranty Support Center > Detroit Inquiries.

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