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IMPORTANT WARRANTY INFORMATION

REF **14-039**
 Effective 10/27/2014
 Release 10/27/2014
 SUBJECT New Detroit Standard Diagnostic Times

❖ Detroit Standard Diagnostic Times

As a result of collaboration with the Standard Repair Time 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 SDTs in addition to the previously released SDTs identified in Important Warranty Letter 14-006, 14-029, 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 included operations. Additional diagnostic time required beyond the SDT can be claimed as a general labor operation with a detailed explanation in the appropriate claim narrative section.

❖ New Engine SDTs

- New SDTs were created for the following:
- Engine Brake Solenoid
 - Fuel Injector Harness
 - Wastegate Solenoid
 - ATS-SCR Catalyst
 - ATS-After Treatment Device Harness
 - ATS-DEF Dosing Unit - GHG14

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.

The new SDTs are also available in the applicable Labor Time Guide as well as at www.ddcsn.com > Warranty > Warranty Applications > Warranty System > Labor > SRTs > SRT Search. Any questions or feedback regarding SDTs may be addressed through the Warranty Support Center > Detroit Inquiries.

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❖ Labor Operation

Engine Brake Solenoid		
EZ	Moderate	Difficult
<p>0.3 Hour</p> <p>021514A Engine Brake Solenoid Diagnostics – Easy</p> <p>Complete preliminary and visual diagnostics. Identify the fault codes. Measure the voltage at the injector harness and/or measure resistance through the injector harness for the fault codes listed below.</p> <p>Typically used for fault codes 1072 FMI ALL, 1073 FMI ALL 3598 FMI All, or 3597 FMI All.</p>	<p>1.5 Hour</p> <p>021514C Engine Brake Solenoid Diagnostics – Moderate</p> <p>Complete preliminary and visual diagnostics. Identify the fault codes. Inspect/test for intake and exhaust leaks. Install a test MCM. Inspect the rocker arm pistons for correct movement. Perform partial parked regen(s) to review engine load as required by the troubleshooting. Completion of diagnostics for code 3711 FMI 31.</p> <p>Typically used for fault code 3711 FMI 31.</p>	<p>2.0 Hour</p> <p>021514E Engine Brake Solenoid Diagnostics – Difficult</p> <p>Complete preliminary and visual diagnostics. Inspect the clutch switch status. Inspect/test for intake and exhaust leaks. Inspect the rocker arm pistons for correct movement. Check valve lash and camshaft timing.</p> <p>Typically used diagnosing a complaint of poor engine brake performance.</p>
Fuel Injector Harness		
EZ	Moderate	
<p>0.3 Hour</p> <p>021005A Fuel Injector Harness – Easy</p> <p>Complete preliminary and visual diagnostics. Identify the fault codes. Measure the voltage at the injector harness and/or measure resistance through the injector harness for the fault codes listed below.</p> <p>Typically used for fault codes 1072 FMI ALL, 1073 FMI ALL 3598 FMI All, or 3597 FMI All.</p>	<p>0.5 Hour</p> <p>021005B Fuel Injector Harness Moderate</p> <p>Complete preliminary and visual diagnostics. Identify the fault codes. Measure the voltage at the injector harness and/or measure resistance through the injector harness for the fault codes listed below.</p> <p>Typically used for fault codes 65X FMI ALL</p>	
Wastegate Solenoid		
EZ	Moderate	Difficult
<p>0.3 Hour</p> <p>061040A Wastegate Solenoid – Easy</p> <p>Complete preliminary and visual diagnostics. Identify the fault codes. Inspect the electrical connector at the wastegate solenoid. Inspect the airlines and fittings for leaks and routing.</p> <p>Typically used for a leaking inlet fitting on the wastegate solenoid.</p>	<p>0.5 Hour</p> <p>061040B Wastegate Solenoid – Moderate</p> <p>Complete preliminary and visual diagnostics. Identify the fault codes, Inspection the electrical connector at the wastegate solenoid. Inspect the airlines and fittings for leaks and routing. Measure voltages and resistances at the wastegate solenoid.</p> <p>Typically used for fault codes 641 FMI ALL without removing the 120-pin connector.</p>	<p>1.0 Hour</p> <p>061040E Wastegate Solenoid – Difficult</p> <p>Complete preliminary and visual diagnostics. Identify the fault codes, Inspect the electrical connector at the wastegate solenoid. Inspect the airlines and fittings for leaks and routing. Measure voltages and resistances at the wastegate solenoid. Disconnect the 120 pin connector at the MCM measuring the resistance through the engine sensor harness. Perform the functional check of the wastegate solenoid/actuator. Includes removing the heat shield near the turbo for inspection.</p> <p>Typically used for fault codes 102/16 or 102/18.</p>

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ATS-SCR Catalyst		
EZ		Difficult
<p>0.3 Hour</p> <p>061066A ATS-SCR Catalyst – Easy</p> <p>Complete visual inspection of DEF fluid for contamination and use test strips to check for hydrocarbons contamination. Identify the SCR Catalyst is failed by fault codes.</p>		<p>2.0 Hour</p> <p>061066E ATS-SCR Catalyst – Difficult</p> <p>Complete visual and physical inspections of DEF fluid. Perform a quantity check. Run a parked regeneration to identify a drifted NOX sensor. Run a secondary parked regeneration to verify repair/or determine ATD replacement.</p> <p>Typically used for fault code 4364 FMI 1 and 18.</p>
<p>Note: This should only be used if the SCR Catalyst is failed. If a DEF Metering Unit, DEF Dosing Unit, or NOX Sensor is the cause of the concern the applicable Standard Repair Time and Standard Diagnostic Time should be utilized.</p>		
ATS-After Treatment Device Harness		
EZ	Moderate	Difficult
<p>0.3 Hour</p> <p>061300A ATS-After Treatment Device Harness– Easy</p> <p>Complete preliminary and visual diagnostics. Identify the fault codes. Key on, engine off comparison between sensors. Inspect the connector body for damage and/or contamination. Inspect the pins in the connector for damage. Verify module software.</p> <p>Typically used for a damaged connector or harness</p>	<p>0.5 Hour</p> <p>061300B ATS-After Treatment Device Harness– Moderate</p> <p>Complete preliminary and visual diagnostics. Identify the fault codes, access to the sensor/component connector for inspection. Remove the 120 pin connector on the After Treatment Control Module (ACM) for inspection. Inspect the connector body for damage and/or contamination. Inspect the pins in the connector for damage.</p> <p>Typically used for an internal damaged connector such as a loose pin or an open/short circuit.</p> <p>Note: This includes removing the fender to access the ACM.</p>	<p>1.0 Hour</p> <p>061300E ATS-After Treatment Device Harness– Difficult</p> <p>Complete preliminary and visual diagnostics. Identify the fault codes, access to the sensor connector for inspection. Remove the 120 pin connector on the After Treatment Control Module (ACM) for inspection. Conduct any necessary circuit testing such as measuring resistances and voltages. Complete diagnostics.</p> <p>Typically used for faulty wire(s) between the ACM and sensor/actuator.</p> <p>Note: This includes removing the fender to access the ACM</p>
ATS–DEF Dosing Unit – GHG14		
EZ	Moderate	Difficult
<p>0.3 Hour</p> <p>061091A ATS – DEF Dosing Unit Diagnostics - Easy</p> <p>Complete preliminary and visual diagnostics. Inspect the connector body for damage and/or contamination. Inspect the pins in the connector for damage. Key on, engine off comparison between sensors.</p> <p>Typically used for identifying a drifted DEF pressure sensor.</p>	<p>0.5 Hour</p> <p>061091B ATS – DEF Dosing Unit Diagnostics - Moderate</p> <p>Complete preliminary and visual diagnostics. Conduct any necessary circuit testing such as measuring resistances and voltages. Remove the 120 pin connector on the After Treatment Control Module (ACM) for inspection. Inspect the connector body for damage and/or contamination. Inspect the pins in the connector for damage.</p> <p>Typically used for fault codes 4334/4 and 4334/3</p>	<p>1.0 Hour</p> <p>061091C ATS – DEF Dosing Unit Diagnostics - Difficult</p> <p>Complete preliminary and visual diagnostics. Identify the fault codes. Check DEF for contamination and quality. Includes performing a DEF quantity test.</p> <p>Typically used for fault code 4364 FMI 1 and 18.</p>

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