Release Notes

Version 2.13.1.3

Release Notes Contents

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- New Vehicle Coverage Summary
- New Vehicle Coverage Special Test Highlights
- New Vehicle Coverage Detail

Overview:

The new version 2.13.1.3 contains major coverage additions and improvements. Also provided are selected highlights of new special tests, fixed issues reported by technicians, and other improvements. You may notice many more in the software that are just too numerous to identify individually. Many thanks for the useful feedback we are receiving. More coverage and enhancements on the way!

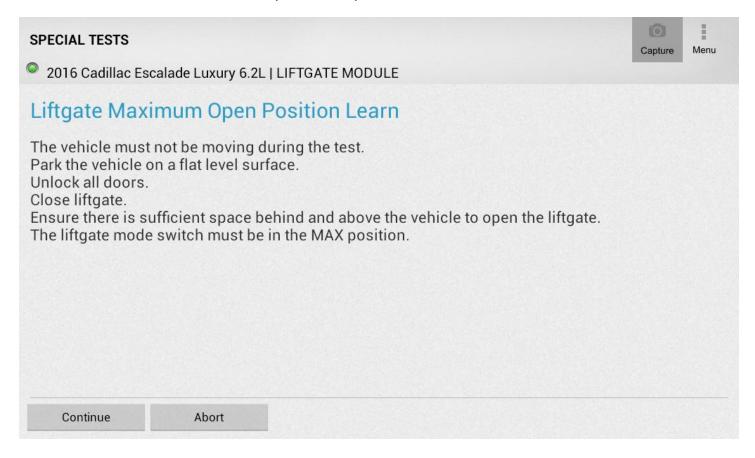
New Vehicle Coverage - Summary:

- **GM** New coverage for 2016-2017MY vehicles and systems
- Honda/Acura New coverage for 2017MY vehicles and systems
- Hyundai Expanded coverage for 2011-2014 for systems such as Doors, Cluster, Immobilizer, Seats, Cruise Control and other Body/Convenience systems
- **Kia** Expanded coverage for 2011-2014 for systems such as Doors, Cluster, Immobilizer, Seats, Cruise Control and other Body/Convenience systems
- Mazda New coverage for 2016MY vehicles and systems
- Mazda Expanded coverage for 2009-2014 for Body/Convenience type systems
- Subaru New coverage for 2017MY vehicles and systems
- Subaru Expanded coverage for 2012-2016 for Body/Convenience type systems
- Toyota New coverage for 2017MY vehicles and systems
- Toyota Expanded coverage for 2009-2014 for DRIVER DOOR and MASTER SWITCH systems
- Volvo New coverage for 2013-2015MY vehicles and systems
- New Systems 4,126
- New Vehicle-ECU Combinations 7,151
- New Adjustment type tests 901
- New Actuation type tests 1,430
- Updated Diagnostic Information for the following:
 - DTC Circuit Description for 2016MY Chrysler/Jeep and GM
 - DTC Possible Causes for 2016MY Chrysler/Jeep and GM

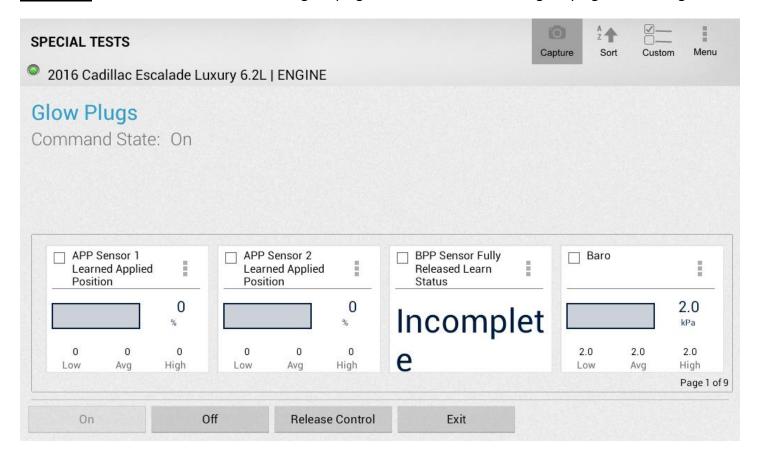
New Vehicle Coverage - Special Test Highlights

GM

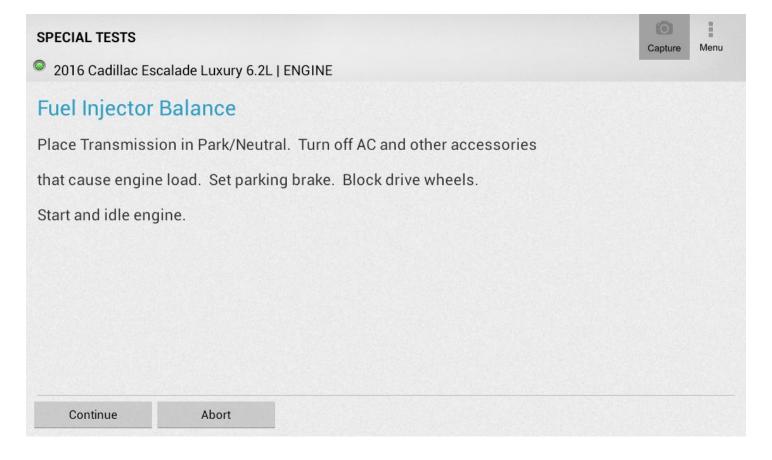
<u>Liftgate Maximum Open Position Learn</u> - This test opens and closes the lift gate so the module can learn the maximum open/close positions



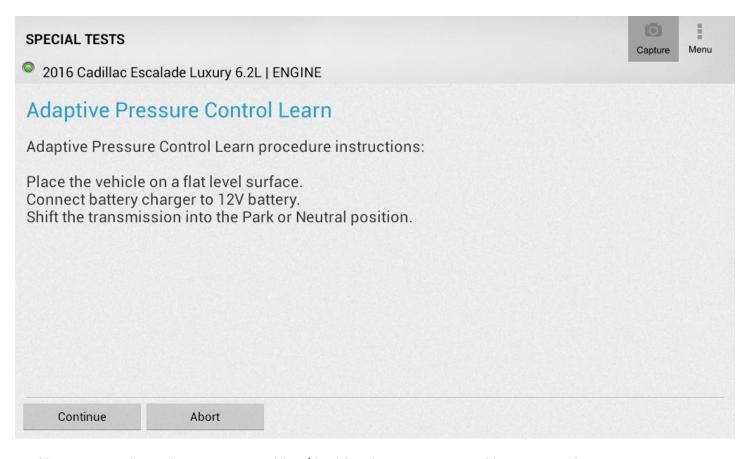
Glow Plugs - Allows user to turn on and off glow plugs to determine if circuit or glow plugs are working



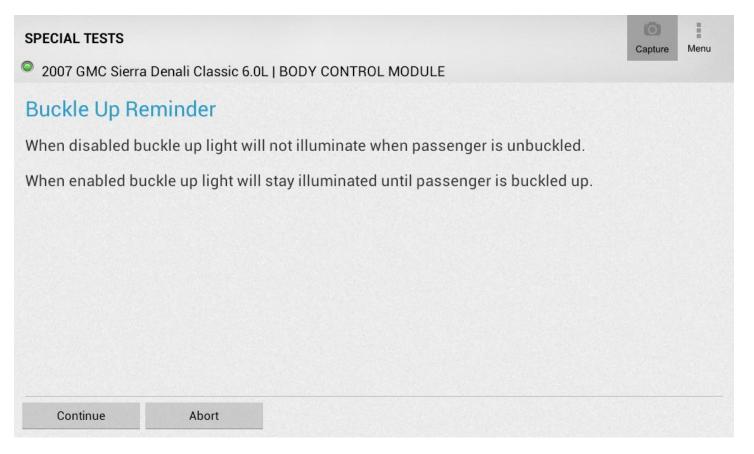
<u>Fuel Injector Balance</u> - This test allows each injector to be disabled and the drop in fuel pressure each injector causes to be measured and displayed.



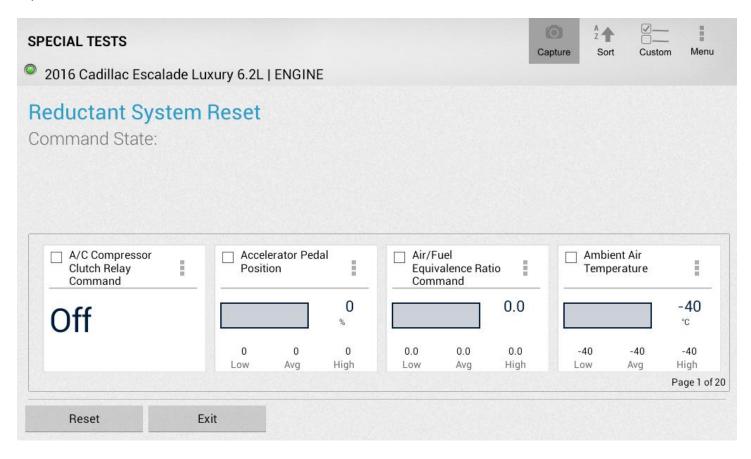
<u>Adaptive Pressure Control Learn</u> - This test is similar to transmission Quick Learn. It initiates an internal procedure that sets the base pressure values for a new or rebuilt transmission.



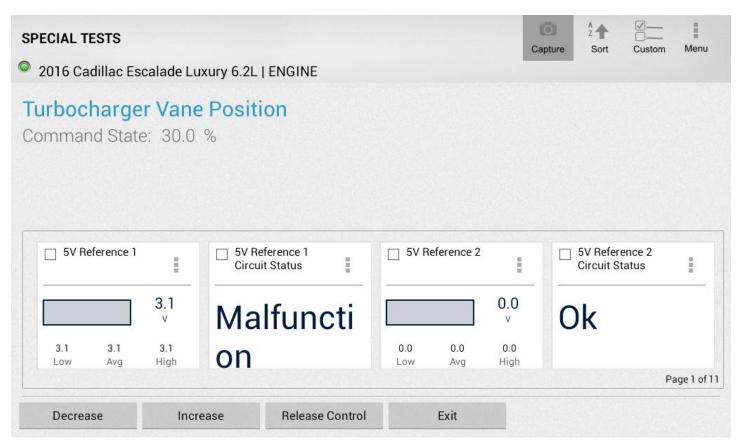
Buckle Up Reminder – This test sets enables /disables the passenger Buckle up Reminder



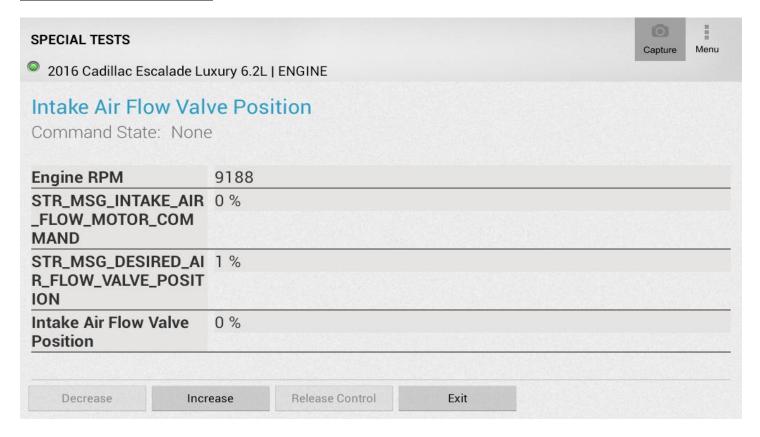
<u>Reductant System Test</u> – Allows the Reductant system to be reset, necessary after parts in the system are replaced



<u>Turbo Charger Vane Position</u> – Allows user to vary turbocharger vane position to verify proper operation

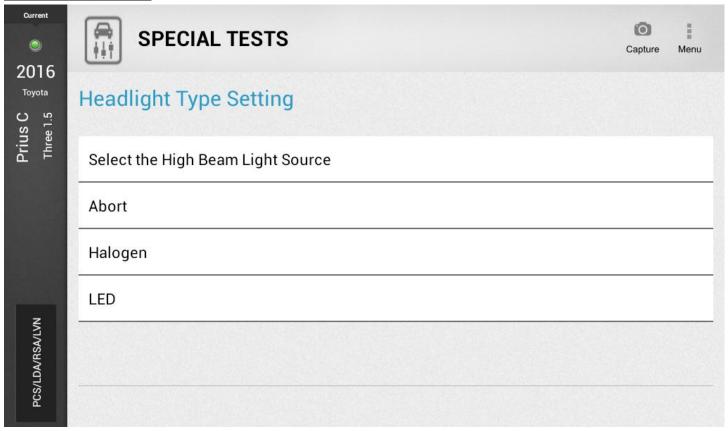


<u>Intake Air Flow Valve Position</u> - Allows user to vary Intake Airflow valve position to verify proper operation

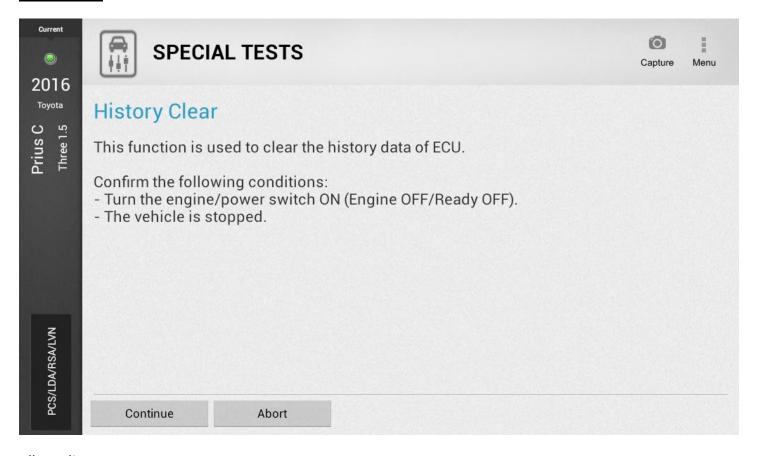


Toyota

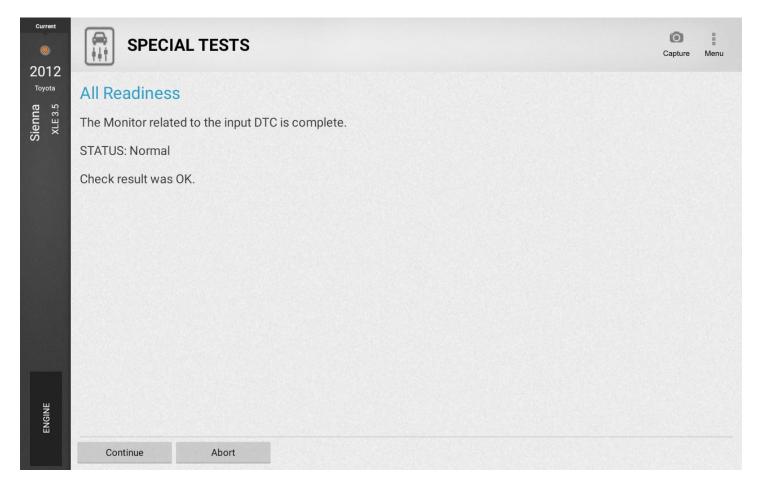
Headlight Type Setting -



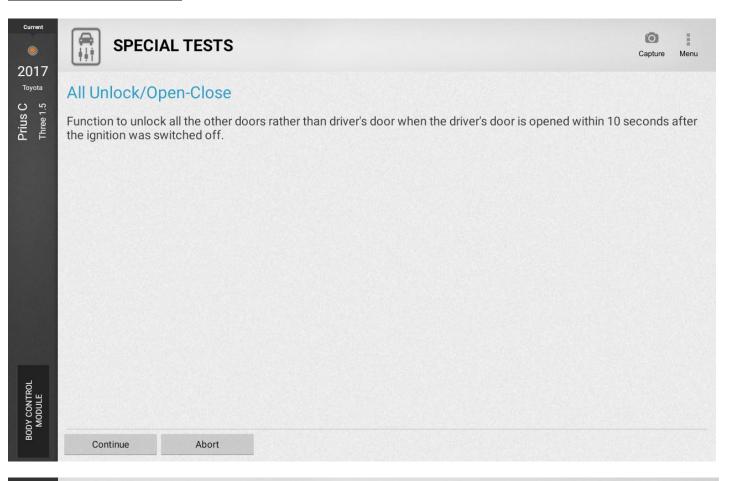
History Clear -

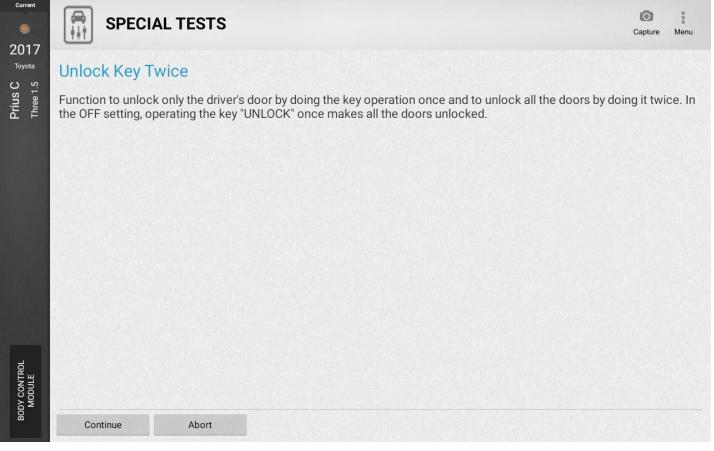


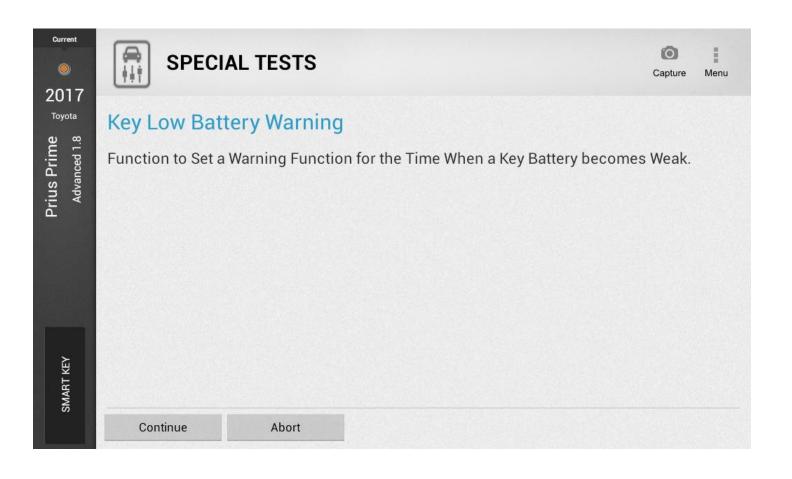
All Readiness -

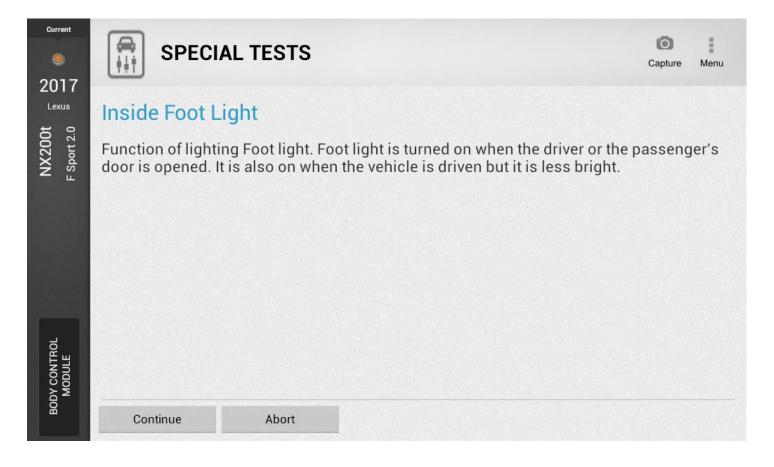


Setting Customizations



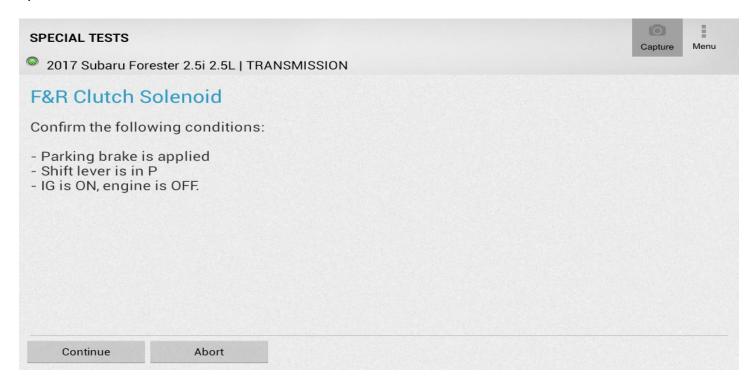




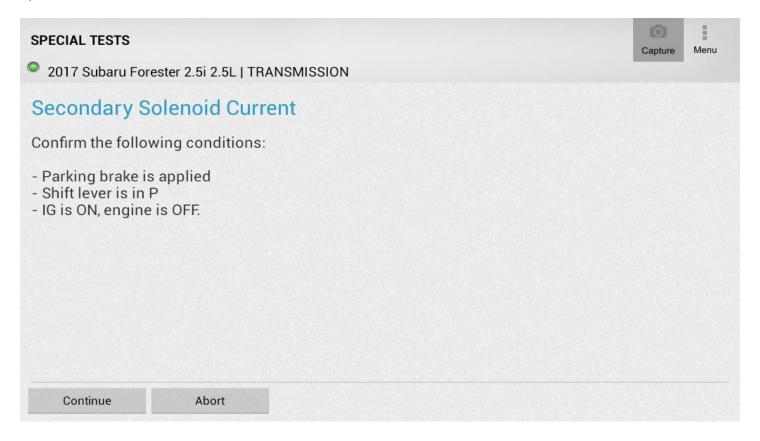


Subaru

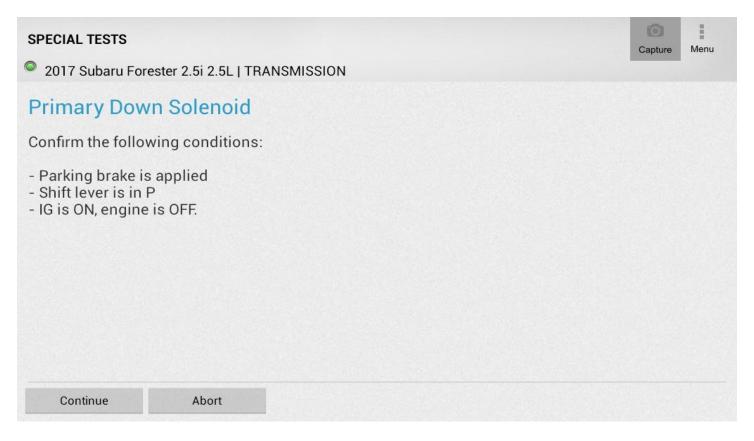
<u>F&R Clutch Solenoid</u> – This test turns Front/Rear Clutch Solenoid on and off to check circuit and solenoid operation



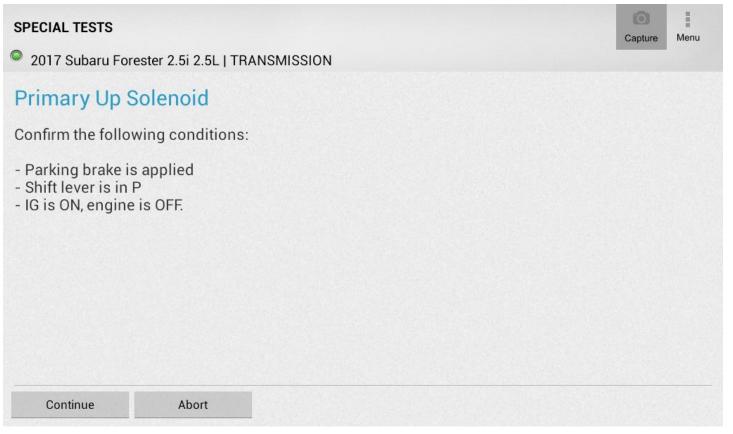
<u>Secondary Clutch Solenoid</u> – This test turns Secondary Clutch Solenoid on and off to check circuit and solenoid operation



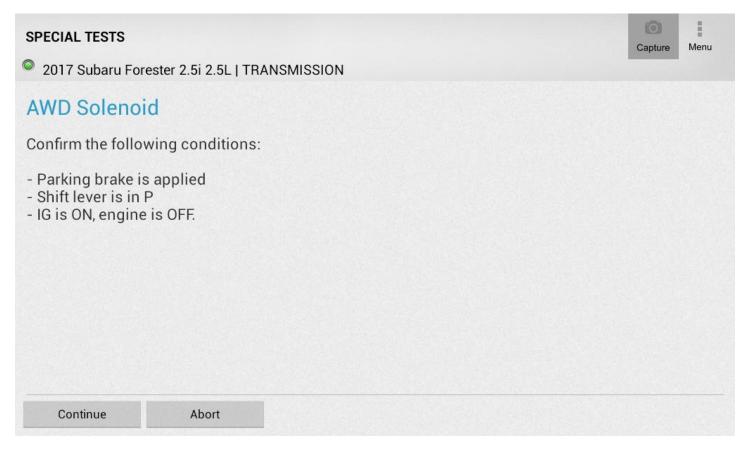
<u>Primary Down Solenoid</u> – This test turns Primary Down Shift Clutch Solenoid on and off to check circuit and solenoid operation



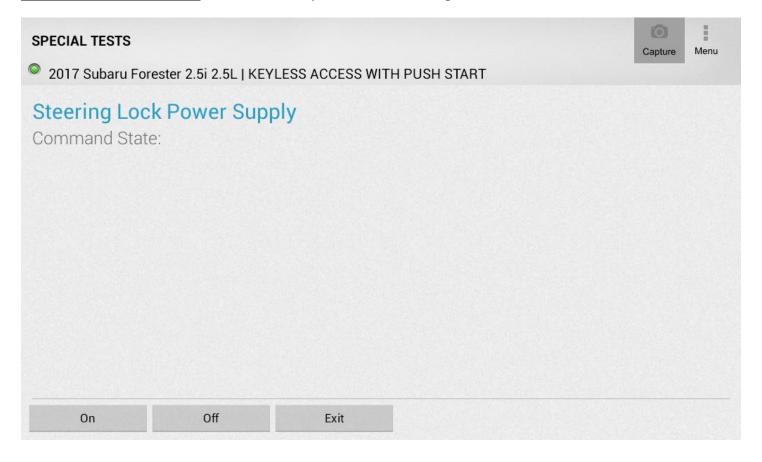
<u>Primary Up Solenoid</u> – This test turns Primary Up Shift Clutch Solenoid on and off to check circuit and solenoid operation



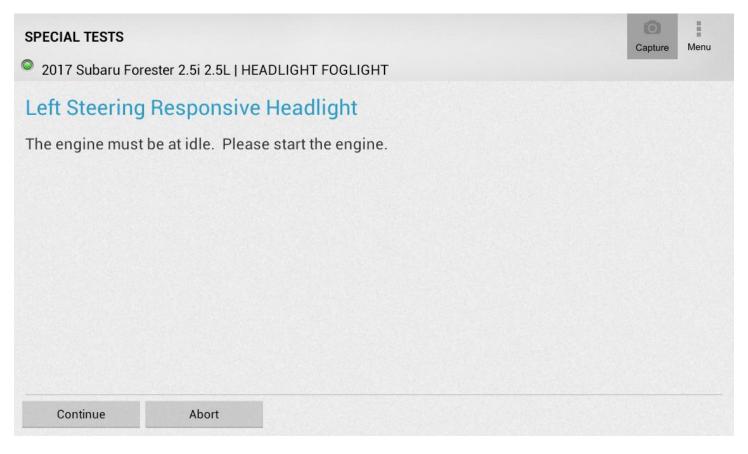
AWD Solenoid – This test turns AWD Clutch Solenoid on and off to check circuit and solenoid operation



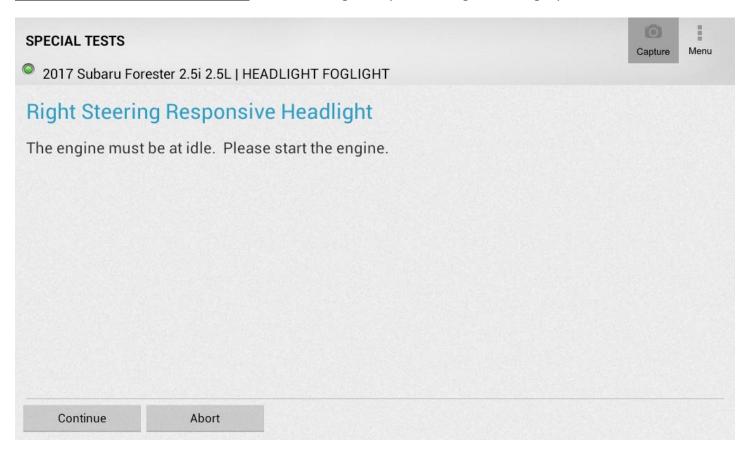
Steering Lock Power Supply - This test turns power to the steering lock on and off



<u>Left Steering Responsive Headlight</u> – Tests headlight Response to Left Steering inputs

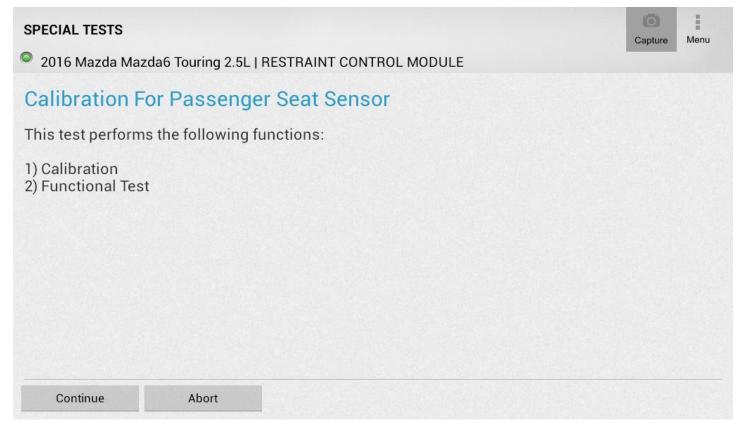


Right Steering Responsive Headlight - Tests headlight Response to Right Steering inputs

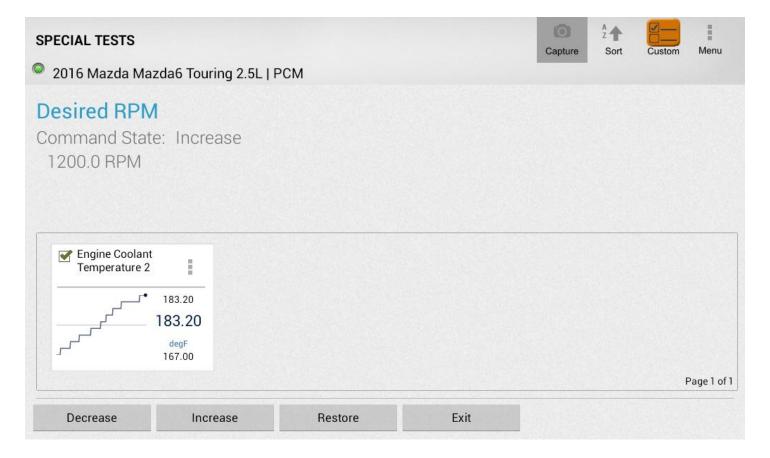


Mazda

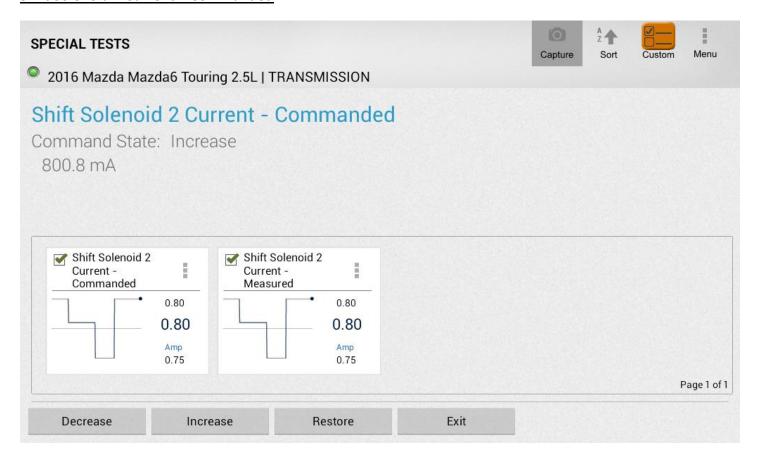
<u>Calibration For Passenger Seat Sensor</u> –



Desired RPM -

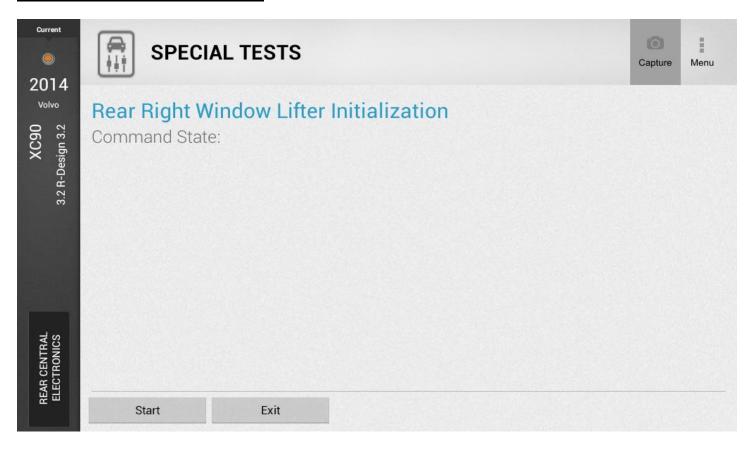


Shift Solenoid 2 Current - Commanded -



Volvo

Rear Right Window Lifter Initialization -



New Coverage - USA Domestic

Chrysler/Jeep Coverage

Special test fixes/improvements:

- 2006 300 5.7L fixed Throttle Relearn test not working properly
- 2000 Van 1500 3.9L fixed Sync test does not show actual sync degree

Updated Diagnostic Information for the following:

- DTC Circuit Description for 2016MY
- DTC Possible Causes for 2016MY
- Code Info (setting conditions) for 2016MY
- Symptoms/Possible Causes for 2016MY
- Drive Cycle for 2016MY
- Technical Service Bulletins
- ABS Brake Bleed Procedures
- Oil Light Reset Procedures

Ford Coverage

14 new Actuation type special tests including:

- Engine/PCM Injector Disable tests
- Instrument Cluster Lamp tests
- Body Control Turn Signal/Trailer Relay Status tests
- Others Tests for TRAILER MODULE

Special test fixes/improvements:

- 2015-2016 F-150 5.0L fixed Power Balance test not working properly
- 2009 Escape fixed Steering Angle Sensor Calibration test not working properly
- 2008-2009 F-550 6.4L fixed DPF Regen test instructions unclear

Updated Diagnostic Information for the following:

- Data Item Operating Ranges for 2016MY
- Symptoms/Possible Causes for 2016MY
- Drive Cycle for 2016MY
- Technical Service Bulletins
- ABS Brake Bleed Procedures
- Oil Light Reset Procedures

General Motors / Saturn Coverage

- New coverage for 2016-2017MY vehicles and systems
- Added coverage for 2,860 new systems
- Added coverage for 3,368 new vehicle-ecu combinations

144 new Adjustment type special tests including:

- Engine/PCM BARO Sensor Reset, Brake Pedal Position Sensor Learn, Catalyst 1 Reset, CKP Reluctor Wheel Learn, Clutch Pedal Position Learn, Crankshaft Pos. Variation Learn, DPF Pressure Sensor Reset, DPF Service Regeneration, DPF/Catalyst 2 Reset, Excessive Clutch Slip Data Reset, Exhaust After treatment Fuel Injector Reset, Exhaust Gas Temperature Sensor Reset, Fuel Composition Reset, Fuel Filter Life Reset, Fuel Rail Pressure Relief Valve Learned Values Reset, Fuel Trim Reset, Gear Selector -N- Position Learn, HO2S Heater Learn, Idle Learn Reset, Idle Speed Adjustment, Intake System Learned Values Reset, Learned Airflow Adapts Reset, Learned Values Reset, NOx Absorber Catalyst Reset, NOx Catalyst Reset, NOx Sensor Reset tests, Oil Life Reset, Particulate Matter Sensor Service Regeneration, Pilot Injection Balance Procedure, Reductant Fluid Tank Level Reset, Reductant Injector Reset, Reductant System Reset, Reprogram Injector Flow Rates, Reset Injection Value tests
- Transmission Transmission Adaptive Pressure Reset, Transmission Adaptive Values Learn, Transmission Service Fast Learn
- Brakes/ABS Adaptive Pressure Control Learn, Automated Brake Bleed, Brake Pressure Sensor Calibration, Park Brake Cable Replacement Procedure, Park Brake Calibration, Steering Wheel Angle Sensor Learn, Yaw Rate Sensor Learn, Yaw Rate Sensor Recalibration
- Safety/Airbag Reset High Voltage Disable Request After Crash Event Detected, Setup SDM Primary Key in BCM, Yaw Rate Sensor Learn
- Climate/HVAC HVAC Actuators Learn, HVAC Afterblow Configuration
- Instrument Cluster Driver Information Center Options, CAN Bus Configuration Learn
- Steering Clear Active Pull Compensation Learned Limits, Clear Softstops, Control Module Reset, Learned Values Reset, Power Steering Pressure Sensor Learn, Power Steering Softstops Reset, Steering Angle Sensor Learn, Steering Gear Replacement Procedure, Steering Wheel Angle Sensor Reset
- **Body Control** Brake Pedal Position Sensor Learn, Clear Window Learned ValuesSetup SDM Primary Key in BCM, Tire Pressure Sensor Registration, Tire Type/Pressure Selection
- Others Program Key FOB tests

579 new Actuation type special tests including:

- Engine/PCM A/C Relay, Active Grill Shutter tests, Alternative Fuel Cylinder Power Balance,
 Alternative Fuel Injector Balance, Alternative Fuel Pressure Regulator Solenoid Valve,
 Autostart/Autostop, Camshaft Actuator tests, Catalyst Test, Compression Test, Cooling Fan Motor,
 Cylinder Deactivation System, Cylinder Power Balance, Depressurize Fuel System, EGR Cooler tests,
 EGR Valve, Engine Speed Control, EVAP tests, Exh. Aftertreatment Fuel Injector, Fan tests, Fuel
 Pump tests, Fuel Injector Balance, Glow Plug Self-Test, Oxygen Sensor tests, Reductant Heater
 tests, Reductant Fluid Quality Test, Reductant Injection Quantity Test, Reductant Injector,
 Reductant Pump, Reductant System Leak Test, Secondary Air Injection tests, TC Vane Pos. Ctrl.
 Solenoid, TC Wastegate Solenoid, Throttle Position, Throttle Sweep, Turbocharger Bypass Solenoid
 Valve, Turbocharger Vane Position, Wastegate Solenoid Duty Cycle
- Hybrid Autostart/Autostop, Drive Motor Coolant Pump Relay, Drive Motor Speed, Transmission Accumulator Solenoid Valve, Hybrid/EV Battery Pack Cooling Fan, Hybrid/EV Battery Pack Isolation Test
- Transmission High Side Driver tests, PC Solenoid tests, Shift Solenoid tests, TCC Pressure Control Solenoid Valve, Transmission Control Solenoid Valve tests
- ABS/Parking Brake ABS Pump Motor, Solenoid tests, Park Brake Actuator tests, Steering Assist Solenoid Valve, Park Brake Cable Service Apply, Park Brake Cable Service Release
- Safety/Airbag Indicator and Alert tests

- Transfer Case Indicator and Lamp tests, ATC Range, Range Actuator, Transfer Case Clutch Engagement, Transfer Case Range
- **Suspension** All Shock Absorber Actuators, Depressurize System, Pressurize System, Shock Absorber tests, Suspension Position Sensor Trim Height
- Instrument Cluster Display Test, Dimming tests, Instrument Cluster Gauge Sweep, Lamp tests
- Climate/HVAC A/C Compressor, AC Relay, A/C Request, Air Inlet Door, Air Recirculation Door Motor Direction, Blower Motor, Mode Door tests
- **Body Control** Lamp and Buzzer/Warning tests, Door Lock tests
- Seat Lumbar tests, Horizontal Movement tests, Vertical Movement tests
- Doors Door Deadbolt Lock/Unlock, Door Lock/Unlock, All Door Lock Unlock, Driver Mirror Fold, Exterior Lighting, Heated Seat Mode, Mirror Fold, Passenger Mirror Fold

Special test fixes/improvements:

- 2013 Suburban TRANSMISSION fixed Transmission Relearn test not available
- 2013 Silverado 6.6L fixed DEF Pump test not working properly
- 2009 Sierra 6.6L fixed DPF tests instructions unclear
- 2009 Silverado 6.6L fixed DPF Regen Enable test instructions unclear
- 2007 Grand Prix ABS fixed Brake Bleed test not working properly
- 2002 Park Avenue fixed Key Programming tests not available
- 2000 Impala 3.8L fixed Fan High test not working properly

Updated Diagnostic Information for the following:

- DTC Circuit Description for 2016MY
- DTC Possible Causes for 2016MY
- Code Info (setting conditions) for 2016MY
- Data Item Circuit Description for 2016MY
- Data Item Operating Ranges for 2016MY
- PCM Connector Pin Information (B.O.B) for 2016MY
- Symptoms/Possible Causes for 2016MY
- Drive Cycle for 2016MY
- Technical Service Bulletins
- ABS Brake Bleed Procedures
- Oil Light Reset Procedures

New Coverage - USA Asian

Honda/Acura Coverage

- New coverage for 2017MY vehicles and systems
- Added coverage for 70 new systems
- Added coverage for 530 new vehicle-ecu combinations

4 new Adjustment type special tests including:

Others – Tests for HIGH BEAM SUPPORT SYSTEM

8 new Actuation type special tests including:

- Engine/PCM Air Bypass Valve Control Solenoid (ABV)
- ABS Left And Right Parking Actuator Control
- **Body Control** Detect Equipped Honda Body Systems, Keyless Buzzer, LIN Wiper Assembled Position Operation
- Others Tests for HIGH BEAM SUPPORT SYSTEM

Hyundai Coverage

- Expanded coverage for 2011-2014 for systems such as Doors, Cluster, Immobilizer, Seats, Cruise Control and other Body/Convenience systems
- Added coverage for 132 new systems
- Added coverage for 155 new vehicle-ecu combinations

24 new Actuation type special tests including:

- Engine/PCM Canister Shut Off Valve Clocked, Cruise Control Main Lamp(Option), Cruise Control SET Lamp(Option), Engine Check Lamp [MIL], Fuel Pump Relay
- Body Control Door Lock Output, Door Unlock Output
- Others tests for POWER SEAT MODULE, DRIVER DOOR MODULE

Other fixes/improvements:

2006 Accent POWER STEERING – fixed unable to clear DTCs

Kia Coverage

- Expanded coverage for 2011-2014 for systems such as Doors, Cluster, Immobilizer, Seats, Cruise Control and other Body/Convenience systems
- Added coverage for 71 new systems
- Added coverage for 96 new vehicle-ecu combinations

6 new Actuation type special tests including:

 Engine/PCM - Canister Shut Off Valve Clocked, Cruise Control Main Lamp(Option), Cruise Control SET Lamp(Option), Engine Check Lamp [MIL], Fuel Pump Relay

Mazda Coverage

- New coverage for 2016MY vehicles and systems
- Expanded coverage for 2009-2014 for Body/Convenience type systems
- Added coverage for 231 new systems
- Added coverage for 239 new vehicle-ecu combinations

7 new Adjustment type special tests including:

• Engine/PCM - Reset KAM

• **Safety/Airbag** - Calibration For Passenger Seat Sensor, Passenger Seat Weight Sensor ReZero, Seat Weight Sensor Calibration

66 new Actuation type special tests including:

- Engine/PCM Air Conditioning Compressor Command State, Desired Generator Voltage, Desired RPM, EVAP system tests, Fuel Injector tests, Fuel Pump, Intake Manifold Runner Control, Variable Fan Duty Cycle
- Transmission Line Pressure Solenoid, Pressure Control Solenoid Current Commanded, Shift Solenoid tests, Torque Converter Clutch Control Solenoid, Torque Converter Clutch Solenoid Current
- Climate/HVAC Airflow Mode Actuator, Airflow Mode Actuator, Information Display, REC/FRESH Switch

Nissan/Infiniti Coverage

4 new Actuation type special tests including:

• ABS/Brakes - ECB Solenoid tests

Other fixes/improvements:

1999 Frontier ENGINE - fixed communication issues

Subaru Coverage

- New coverage for 2017MY vehicles and systems
- Expanded coverage for 2012-2016 for Body/Convenience type systems
- Added coverage for 116 new systems
- Added coverage for 301 new vehicle-ecu combinations

109 new Adjustment type special tests including:

- Transmission AWD ON/OFF switching mode
- ABS VSC(VDC) Centering Mode
- Cluster Reminder settings tests, Volume settings tests
- Climate (HVAC) Mode tests, Auto Mode Start Function, Compressor Mode, Fan speed increment control, Filter Sensor, Seat A/C and Heater Sensitivity Adjust tests, Seat Heater Auto Function tests, Noise and Vibration Reduction, Remote Air Conditioner Start & Stop Setting tests, Steering Heater tests
- Others Tests for SMART Key

28 new Actuation type special tests including:

- Engine/PCM Control Injection Volume for A/F, EGR Valve Control, Engine Speed, Fixed Idle Ignition Timing, Idle Speed Control
- **Transmission** AWD Solenoid, Check Mode, F&R Clutch Solenoid, Lock-Up Duty Solenoid, Primary Down Solenoid, Primary Up Solenoid, Secondary Solenoid Current
- ABS ABS Sequence Control Mode, Mode Switch, VDC Function Check Mode
- Climate (HVAC) Blower Motor

Toyota/Lexus Coverage

- New coverage for 2017MY vehicles and systems
- Expanded coverage for 2009-2014 for DRIVER DOOR and MASTER SWITCH systems
- Added coverage for 162 new systems
- Added coverage for 1,684 new vehicle-ecu combinations

469 new Adjustment type special tests including:

- Engine/PCM All Readiness, Body Ctrl with Torque Demand, Deceleration Sensor Zero Point Calibration
- **Hybrid** Normal Battery Stack Average Voltage Calculation
- Transmission ATF Thermal Degradation Estimate Reset, Valve Body Reset
- Cluster Reminder settings tests, Volume settings tests, Tacho Meter Mode
- Climate (HVAC) Mode tests, Auto Mode Start Function, Compressor Mode, Fan speed increment control, Filter Sensor, Seat A/C and Heater Sensitivity Adjust tests, Seat Heater Auto Function tests, Noise and Vibration Reduction, Remote Air Conditioner Start & Stop Setting tests, Steering Heater tests
- **Body Control** Air Conditioner Mode, Auto Lock tests, Mirror tests, Automatic High Beam, Light tests, Intrusion Sensor Sensitivity Level, Window tests, Wiper/Washer tests
- Others Tests for Drivers Seat, Passenger Seat, Rear Seats, SMART Key, Doors, Park Assist, Blind Spot, Adaptive Front Lighting

252 new Actuation type special tests including:

- Engine/PCM Activate SL Solenoid tests, Activate The Electric Water Pump, Activate the EVAP
 Purge VSV, Activate the Fuel Filler Opener, Activate the Fuel Pressure Discharge, Activate the Fuel
 Vapor-Containment Valve, Activate the Vacuum Pump, Activate the VSV for Intake Control, Activate
 the VSV for Vent Valve, Air Bypass Valve Solenoid, Air Conditioning Compressor Cycling Switch,
 Control Injection Volume for A/F, Engine Speed, FAN Control Signal tests, Fuel Pump, Injector tests,
 Oil Pressure Solenoid Valve
- Hybrid Battery Cooling Fan Control, Check Mode, Hybrid Battery Heater Relay
- Transmission Activate SL Solenoid tests
- ABS ECB Solenoid Valve tests
- Steering Check Mode
- Instrument Cluster Lamp tests, Buzzer tests, Oil Pressure Meter Operation, Power Meter Operation, Speed Meter Operation, Tachometer Operation, Water Temperature Meter Operation
- Climate (HVAC) A/O Servo Pulse(F&R P), Blower Motor
- Suspension Accumulator Valve (Downside), Accumulator Valve (Upside)
- Body Control Lamp and Buzzer/Warning tests
- Others Automatic High Beam Operation

Other fixes/improvements:

2008 Highlander SLIDE ROOF - fixed communication issues

New Coverage - USA European

BMW/Mini Coverage

2 new Adjustment type special tests including:

- Engine/PCM Valvetronic Running-in Phase
- ABS/Brakes Lateral Acceleration Sensor

Volvo

- New coverage for 2013-2015MY vehicles and systems
- Added coverage for 484 new systems
- Added coverage for 778 new vehicle-ecu combinations

158 new Adjustment type special tests including:

- Engine/PCM EVAP tests, Reset Adaptation Parameters, Tank Leak Test
- Transmission Reset Adaptation Parameters, Start Gear Indicator Mode, Start Test Mode, Transmission Adaption, Transmission Oil Change Interval Reset, Transmission Position Sensor Calibration
- ABS/Brakes ASR Test, Bleed, Brake Pressure Sensor Zero Pos. Compensation, ESP Test, Lat. Accel. Sensor Zero Pos. Calibration, Longit. Accel. Sensor Zero Pos. Calibration, Steering Wheel Angle Sensor
- Safety AIRBAG Calibrate Acceleration Sensor
- Transfer Case/Differential Drain Pressure Accumulator
- Cluster Resetting Of Service-Interval Display, Activate/Deactivate Warning tests
- HVAC/Climate Control Adapting Of Control Motors, Adjustment Range Basic Setting, Air Conditioner Actuator Learning Mode, Air Conditioner Control Unit Programming, Air Distribution Footwell/Defrost, Air Flap Range/Tolerance Limits, Basic Setting, Blower Motor Run-On, Component Status Display, Evaporator Output Programming, Programmed Configuration, Recirculated-Air Flap Cleaning Mode, Seat Heating Min & Max Temperature Setting, Write Configuration
- **Battery** Battery Replacement, Reset Battery Sensor Adaptation, Reset No-Load Current Information
- Others CENTRAL ELECTRONIC MODULE Settings tests, DOOR modules Window Initialization tests, Sun Roof Initialization, Reversing Camera Setting

446 new Actuation type special tests including:

- Engine/PCM A/C Relay, Boost Pressure Solenoid Valve, Charge Air Cooler Bypass Sol.Val., Cooler Fan tests, Electric Fuel Pump, EVAP system tests, Fuel Pump Relay, Injector tests, Throttle Valve Actuation tests, Throttle Valve Actuator, Turbo Control Valve
- Transmission Gearshift Solenoid Valve tests, Modulating Pressure Control tests, Pressure Control Solenoid Valve tests, S1 Control, S2 Control, S3 Control, S4 Control, S5 Control, Shift Solenoid tests, SLS Control, SLT Control, SLU Control, Solenoid Valve: Converter Lockup
- ABS/Brakes ABS Test
- Cluster Lamp and Indicator tests
- HVAC/Climate Control Button tests, Mode tests, Seat Heating tests

• Others – SEAT tests, DOOR tests, CENTRAL ELECTRONICS tests, AUDIO tests, REVERSING CAMERA Test Image

Other fixes/improvements:

- 2003 S60 ABS & AIRBAG fixed communication issues
- 2004 S60 fixed communication issues
- 2004 XC70 fixed communication issues
