

## **Overview:**

The new version 3.8.0.27 contains a major coverage release. Also provided are selected highlights of improvement and fixed defects reported by technicians. You may notice many more improvements in the software that are just too numerous to identify individually. Many thanks for the useful feedback we have received.

**\*\*\* This is the last and final update for this platform. However, we will continue to support the platform throughout 2018.**

## **New Vehicle Coverage**

- **GM** – New coverage for 2016-2017MY vehicles and systems
- **Honda/Acura** – New coverage for 2017MY vehicles and systems
- **Hyundai** – New coverage for 2016MY 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** – New coverage for 2016MY vehicles and 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
- **Mitsubishi** – New coverage for 2016MY vehicles and systems
- **Nissan/Infiniti** – New coverage for 2016MY vehicles and 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** – 5,102
- **New Vehicle-ECU Combinations** – 8,994
- **New Adjustment type tests** – 1,048
- **New Actuation type tests** – 2,723
- **Updated Diagnostic Information for the following:**
  - DTC Circuit Description for 2016MY Chrysler/Jeep, Ford and GM

- DTC Possible Causes for 2016MY Chrysler/Jeep, Ford and GM
- Code Info (setting conditions) for 2016MY Chrysler/Jeep, Ford and GM
- Data Item Circuit Description for 2016MY GM
- Data Item Operating Ranges for 2016MY Ford and GM
- PCM Connector Pin Information (B.O.B) for 2016MY GM
- Symptoms/Possible Causes for 2016MY Chrysler/Jeep, Ford and GM
- Drive Cycle Procedures for 2016MY Chrysler/Jeep, Ford and GM
- Technical Service Bulletins
- Code-Assist Library confirmed fixes
- SymptomAssist
- ABS Brake Bleed Procedures
- Oil Light Reset Procedures

## ***New Coverage – USA Domestic***

### ***Chrysler/Jeep Coverage***

- Improved coverage for DPF Regen tests

#### **4 new Adjustment type special tests including:**

- **Engine/PCM** - DPF Regen, Manual DPF Regeneration, Service DPF Regeneration Routine, Stationary Desoot (DPF Regen)

#### **Special test fixes/improvements:**

- 2007 Grand Caravan 3.8L ENGINE – fixed EVAP Monitor test not available
- 2006 300 5.7L - fixed Throttle Relearn test not working properly
- 2003 Ram ABS – fixed Set Pinion Factor 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 2013-2016MY
- Symptoms/Possible Causes for 2016MY
- Drive Cycle for 2016MY
- Technical Service Bulletins
- ABS Brake Bleed Procedures
- Oil Light Reset Procedures

### ***Ford Coverage***

#### **1 new Adjustment type special tests including:**

- **Tire Pressure Monitor** - Tire Pressure Sensor Registration

#### **14 new Actuation type special tests including:**

- **Engine/PCM** – Injector Disable tests
- **Instrument Cluster** - Lamp tests
- **Body Control** – Lamp and Buzzer/Warning tests, Door Lock tests, On Demand Test, Wiper tests, Turn Signal tests, Headlight tests, Seat Heater tests
- **Others** - Tests for TRAILER MODULE

#### **Special test fixes/improvements:**

- 2015-2016 F-150 5.0L - fixed Power Balance test not working properly
- 2014 Fusion – fixed Parking Brake Release test not available
- 2009 Escape - fixed Steering Angle Sensor Calibration test not working properly
- 2008-2009 F-550 6.4L – fixed DPF Regen test instructions unclear
- 2005 Escape Hybrid ABS - fixed Brake Bleed test not available

#### **Updated Diagnostic Information for the following:**

- DTC Circuit Description for 2016MY
- DTC Possible Causes for 2015-2016MY
- Code Info (setting conditions) for 2015-2016MY
- 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 3,431 new vehicle-ecu combinations

#### **136 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** - Automated Brake Bleed, Brake Pressure Sensor Calibration, Park Brake Cable Replacement Procedure, Park Brake Calibration, Steering Wheel Angle Sensor Learn, Yaw Rate Sensor Recalibration
- **Safety/Airbag** - Reset High Voltage Disable Request After Crash Event Detected
- **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 Gear Replacement Procedure
- **Body Control** - Brake Pedal Position Sensor Learn, Clear Window Learned Values, CTD Operation, Pre-Alarm Option, Tire Pressure Sensor Registration, Tire Type/Pressure Selection
- **Others** – Program Key FOB tests

#### 576 new Actuation type special tests including:

- **Engine/PCM** – A/C Relay, Active Grill Shutter tests, Air Pump Relay, 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 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, DC Charge Port Lock, 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, Brake Booster Electric Vacuum Pump, 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, Compressor Relay, Compressor Test, Depressurize System, Pressurize System, Extended Ride Height Switch, EVO Solenoid Test, Ride Control Lamp Test, 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, A/C Defrost Solenoid, 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
- **Others** – TRAILER INTERFACE CONTROL tests

#### 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
- 2009 G6 – fixed Key Programming tests not available
- 2008 Vue BCM – fixed BCM tests not available
- 2008 Sierra 5.3L PCM – fixed Idle Relearn test not available
- 2007 Grand Prix ABS - fixed Brake Bleed test not working properly
- 2005 Silverado 6.6L PCM – fixed Fuel Injector Disable Cylinder #3 and #8 tests not working properly
- 2003 Impala BODY – fixed BCM Program VIN test not available
- 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

#### **7 new Actuation type special tests including:**

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

#### **Special test fixes/improvements:**

- 2013 Odyssey – fixed Seat Weight Calibration not working properly

- 2008 Accord – fixed SWS Initialization test not available

## **Hyundai Coverage**

- New coverage for 2016MY vehicles and systems
- Expanded coverage for 2011-2014 for systems such as Doors, Cluster, Immobilizer, Seats, Cruise Control and other Body/Convenience systems
- Added coverage for 521 new systems
- Added coverage for 636 new vehicle-ecu combinations

### **12 new Adjustment type special tests including:**

- **ABS/Brakes** - Air Bleeding Mode, Auto Detected Configuration Reset, SAS Calibration, Variant Coding
- **Tire Pressure Monitor** - Vehicle Name Writing
- **Transfer Case/AWD** – Clutch Learning Read, Clutch Learning Reset, Clutch Learning Writing
- **Others** – Power Steering ASP Calibration

### **442 new Actuation type special tests including:**

- **Engine/PCM** - Canister Shut Off Valve Clocked, Cruise Control Main Lamp(Optional), Cruise Control SET Lamp(Optional), Engine Check Lamp [MIL], Fuel Pump Relay, Injector Disable tests
- **Hybrid** – Battery Fan tests
- **Transmission** - Shift Control Solenoid tests, Gear Lamp tests
- **ABS/Brakes** – Lamp tests, Inlet Valve tests, Outlet Valve tests, Motor Test, Reservoir Cut Valve tests, TCS Valve tests
- **Instrument Cluster** – Lamp/Indicator tests
- **Climate/HVAC** – Mode Selector tests, Blower Fan Motor Step tests, Compressor tests, Mix Door tests
- **Body Control** - Lamp and Buzzer/Warning tests, Window tests, Door Lock tests, Wiper/Washer tests, Active Air Flap tests, Central Door Lock tests
- **Others** - tests for ASSIST DOOR MODULE, POWER SEAT MODULE, ADAPTIVE FRONT LIGHT, SMART KEY UNIT, DRIVER DOOR MODULE

### **Other fixes/improvements:**

- 2006 Accent POWER STEERING – fixed unable to clear DTCs

## **Kia Coverage**

- New coverage for 2016MY vehicles and systems
- Expanded coverage for 2011-2014 for systems such as Doors, Cluster, Immobilizer, Seats, Cruise Control and other Body/Convenience systems
- Added coverage for 277 new systems
- Added coverage for 402 new vehicle-ecu combinations

### **3 new Adjustment type special tests including:**

- **ABS/Brakes** - SAS Calibration
- **Tire Pressure Monitor** - Vehicle Name Writing, Write VIN

### **170 new Actuation type special tests including:**

- **Engine/PCM** - Canister Shut Off Valve Clocked, Cruise Control Main Lamp(Optional), Cruise Control SET Lamp(Optional), Engine Check Lamp [MIL], Fuel Pump Relay, Injector Disable tests
- **Transmission** - Shift Control Solenoid tests, Gear Lamp tests
- **ABS/Brakes** - Lamp tests, Inlet Valve tests, Outlet Valve tests, Motor Test, Reservoir Cut Valve tests, TCS Valve tests, Apply Valve tests, Cut Valve tests, Release Valve tests
- **Electric Parking Brake** - Actuator Control Apply, Actuator Control Release, In-Line mode - Apply/Release, Maintenance mode - EPB/MOC tests
- **Instrument Cluster** – Lamp/Indicator tests
- **Body Control** - Lamp and Buzzer/Warning tests, Window tests, Door Lock tests, Wiper/Washer tests, Active Air Flap tests, Central Door Lock tests
- **Others** - tests for POWER SEAT MODULE, ADAPTIVE FRONT LIGHT, SMART KEY UNIT, DRIVER DOOR MODULE

### ***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

### **5 new Adjustment type special tests including:**

- **Engine/PCM** - Reset KAM
- **Safety/Airbag** - Passenger Seat Weight Sensor ReZero

### **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

### ***Mitsubishi Coverage***

- New coverage for 2016MY vehicles and systems
- Added coverage for 154 new systems
- Added coverage for 239 new vehicle-ecu combinations

### **3 new Adjustment type special tests including:**

- **Climate/HVAC** - Air Outlet CO Damper Position Reset, In/Out Select Damper Position Reset

### **318 new Actuation type special tests including:**

- **Engine/PCM** - Ignition Timing 5 BTDC

- **ABS/Brakes** - ESS Test Mode
- **Instrument Cluster** – Lamp/Indicator tests, Buzzer tests, Gauge tests
- **Climate/HVAC** – Air Outlet tests, Condensor Fan tests, Blower Fan tests, In/Out Select Damper tests
- **Others** - tests for 4WS/ELECTRIC POWER STEERING, POWER GATE

## ***Nissan/Infiniti Coverage***

- New coverage for 2016MY vehicles and systems
- Added coverage for 51 new systems
- Added coverage for 463 new vehicle-ecu combinations

### **42 new Adjustment type special tests including:**

- **Engine/PCM** - Closed Throttle Position Learn
- **Transmission** - Conform CVTF Deterioration, Erase Learning Value
- **ABS/Brakes** - ECB Solenoid tests
- **Safety/Airbag** - OCCUPANT DETECTION SYSTEM Zero Point Reset Function
- **Climate (HVAC)** - Blow Setting, FRE Memory Set, REC Memory Set, Target Evaporator Temperature Upper Limit, Temp Set Correct In Deg C, Temp Set Correct In Deg F
- **Suspension** - Alc Setting
- **Body Control** – Lighting tests, Lock Setting tests, Battery Saver Setting tests, Light Sensor Basic Setting, Noise Cancellation tests, Wiper tests, Alarm Setting tests, Window Setting tests, Trunk Open Setting, Wiper Speed Setting

### **173 new Actuation type special tests including:**

- **Engine/PCM** - Cylinder Cutout Test, Electric Fan Override Test, Fuel Supply Pump Override Test, Self-Learning Cont, Super Charger Clutch Relay
- **Hybrid** – Heater Relay Unit
- **Climate (HVAC)** - HVAC Test
- **Body Control** - Lamp and Buzzer/Warning tests, Door Lock tests, Wiper tests
- **Others** - tests for AUTO SLIDE DOOR LEFT, SLIDING ROOF MODULE, ADAPTIVE HEADLIGHT, INTELLIGENT KEY

### **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

**27 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, 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

**468 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

**251 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, Hybrid Battery Heater Relay
- **Transmission** - Activate SL Solenoid tests
- **ABS** - ECB Solenoid Valve tests

- **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***

### ***Audi Coverage***

**14 new Adjustment type special tests including:**

- **Engine/PCM** - Activate/Deactivate Start/Stop Function, Bleed Fuel System, Camshaft Timing Control (B1) Inlet, Camshaft Timing Control (B1) Outlet, CAT Conversion Rate (Bank 1), Evaporative Emission Control Regenerat. Valve, Lambda Sensor Ageing Bank 1 Sensor 1, Lambda Sensor Ageing Bank 1 Sensor 2, Throttle Valve Basic Setting
- **Transmission** - Excessive Temperature Counter Write Reset, Reset Adaption Of Application Point To Factory Settings

**11 new Actuation type special tests including:**

- **Transmission** – Gear oil cooling valve tests, Shift Lock
- **AWD/Transfer Case** – Clutch Valve tests, Torque Demand Level tests

### ***BMW/Mini Coverage***

- Added coverage for 111 new systems
- Added coverage for 288 new vehicle-ecu combinations

**80 new Adjustment type special tests including:**

- **Engine/PCM** - Exhaust Gas Analysis Zeroing, Idle Adjustment, Octane Rating Adaptation, Oil Service Reset, Particle Filter Replacement, Reset Adaptations, Valvetronic Limit Position Learning Mode, Valvetronic Running-in Phase, VANOS Adaptation
- **Transmission** - Analog Paddle Reset, Perform Control-module Reset, Reset Rear Learning Function
- **ABS/Brakes** - Longitudinal Acceleration Sensor Adjustment
- **Steering** - Reset Control Unit
- **Body Control** - Front Driver/Pass Door Power Window Regulator Initialization, PJB Initialization, Rear Driver/Pass Side Door Pwr Window Regulator Initialization, Slide Tilt Sunroof Initialization
- **Climate (HVAC)** - Circulating Memory Setting, Delete counter of internal sensor fan, Delete counter of pressure sensor
- **Suspension** - ICM Sensor Adjustment
- **Instrument Cluster** – Service Reset tests

- **Others** - Driver Seat Initialization, Steering Angle Sensor Adjustment

#### **43 new Actuation type special tests including:**

- **Engine/PCM** - OBD Readiness tests
- **Instrument Cluster** – Lamp/Indicator tests, Self Test, Speedometer
- **Climate (HVAC)** - Flap Motor Opening tests
- **Steering** – EVV Valve Control tests, SERVO Valve Control tests
- **Seats** - Seat Adjustment tests, Seat Ventilation tests

#### **Special test fixes/improvements:**

- 2013 528xi ABS – fixed ABS tests not working properly
- 2012 X6 – fixed maintenance reset tests not available
- 2009 750i – fixed Brake Service Reset test not available
- 2009 328i – fixed Battery Exchange Register test not available
- 2008 X5 – fixed Oil Maintenance Reset and Vehicle Check tests not working properly
- 2008 328i – fixed Battery Exchange Register test not available
- 2007 328xi ENGINE – fixed Smooth Running Test not working properly
- 2005 Mini Cooper ENGINE – fixed Oil Light Reset test not available
- 2004 325i ENGINE – fixed Air Control Solenoid test not available
- 2000 Z3 ENGINE – fixed Oil Light Reset test not working properly

#### **Other fixes/improvements:**

- 2003 Mini Cooper AIRBAG - fixed communication issues
- 2014 550i ENGINE - fixed communication issues

## ***Land Rover Coverage***

#### **1 new Adjustment type special tests including:**

- **Transmission** - Reset Adaptation Parameters

#### **17 new Actuation type special tests including:**

- **Climate (HVAC)** – Lamp/Indicator tests, Blower Motor Relay, Blower Speed Test

## ***Volkswagen Coverage***

#### **7 new Adjustment type special tests including:**

- **Engine/PCM** - Activate/Deactivate Start/Stop Function, Throttle Valve Basic Setting
- **Transmission** - Excessive Temperature Counter Write Reset, Reset Adaption Of Application Point To Factory Settings

#### **11 new Actuation type special tests including:**

- **Transmission** – Gear oil cooling valve tests, Shift Lock

#### **Special test fixes/improvements:**

- 2012 Passat - fixed Xenon Range reset test not available

## Volvo

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

### 147 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 Distribution Footwell/Defrost, Air Flap Range/Tolerance Limits, Basic Setting, Blower Motor Run-On, Evaporator Output Programming, Programmed Configuration, Recirculated-Air Flap Cleaning Mode, Seat Heating Min & Max Temperature Setting
- **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

### 445 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

***Thank you for your patronage!***