

Version 3.4.1.11

Release Notes Contents

- [Overview](#)
- [New Vehicle Coverage - Summary](#)
- [Software Improvements](#)
- [New Vehicle Coverage – Special Test Highlights](#)
- [New Vehicle Coverage - Detail](#)

Overview

The new version 3.4.1.11 contains major coverage additions and software improvements. Also provided are selected highlights of new special tests and performance enhancements as requested by technicians. 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 Coverage - Summary

- **GM** – New coverage for 2018MY vehicles and systems
- **BMW** – Expanded coverage for many systems 2014-2017MY
- **Hyundai** – PIDs coverage for 2017 & 2018 MY
- **KIA** – PIDs coverage for 2017 & 2018 MY
- **Ford** – New adjustment tests for PCM, Transmission, Brakes, Chassis and Body type systems
- **Audi** – New adjustment tests in the maintenance category, engine diagnostics, calibration resets and module setups
- **Volkswagen** – New adjustment tests in the maintenance category, engine diagnostics, calibration resets and module setups
- **Mercedes** – New adjustment tests in the maintenance category, engine diagnostics, calibration resets and module setups
- **New Systems** -1,428
- **New Vehicle-ECU Combinations** -2,303
- **New Adjustment type tests** – 2,687
- **New Actuation type tests** – 3,265

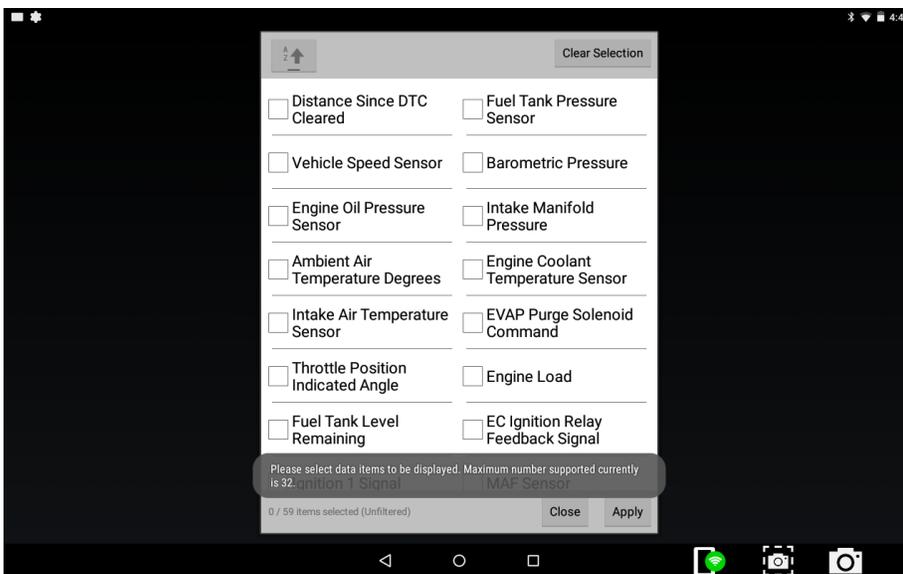
Software Improvements

- CAN Enhanced Data Stream Paging Improvements
- Diagnostic Information Performance Improvements
- OBDII Freeze Frame Improvements
- Faster browser performance, including wiring diagrams (available on certain models)

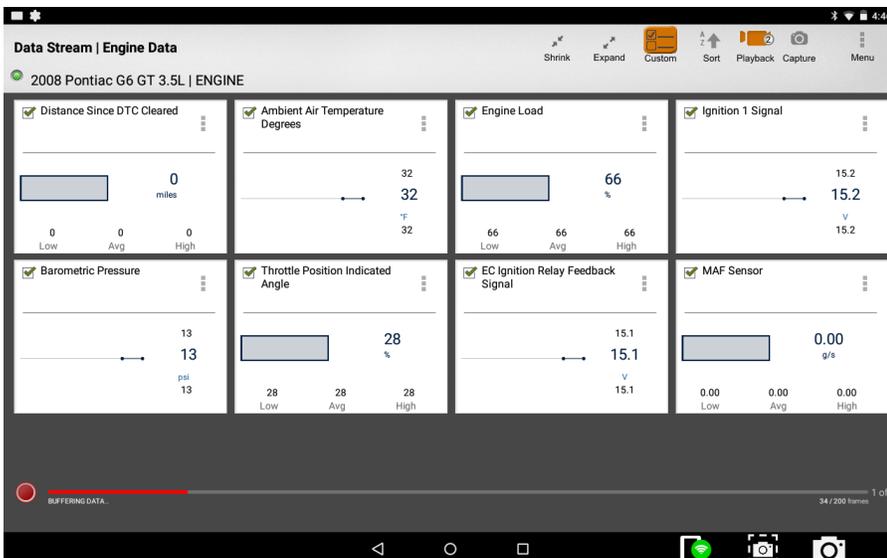
CAN Enhanced Data Stream Paging Improvements

Instantly display, page and record up to 32 data items (16 max per page viewable at a time) on CAN vehicles. Paging is smooth and quick.

When the data group you pick offers more than 32 data items, you will be prompted to select up to 32 data items to view at once:



Once you select up to 32 data items, no more waiting between pages or switching between views. All of the data items are instantly available and streaming.



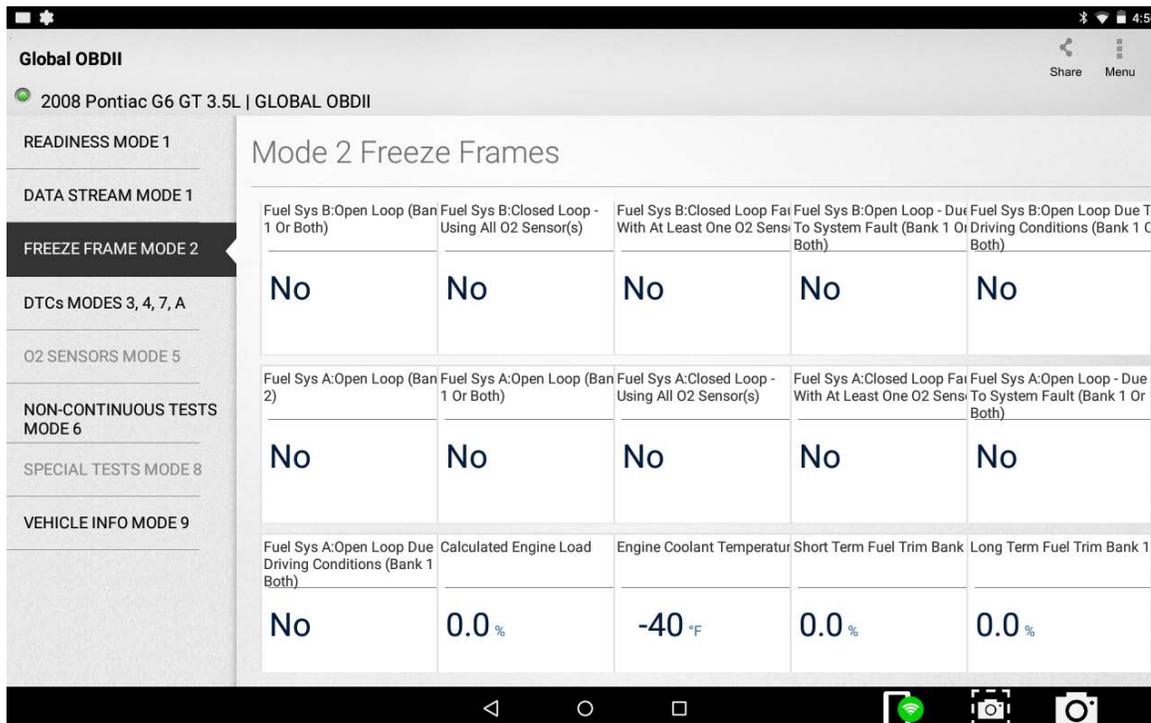
Diagnostic Information Performance Improvements

On-tool repair and diagnostic information assets now load even faster. You will notice you can drill down into Code-Assist Library quickly and easily to locate DTC Information details.



OBDII Freeze Frame Improvements

Freeze Frame Mode 2 will now display all freeze frame groups if there are multiple groups for the same DTC.



General Performance and Stability Improvements

- On Tool Browser performance has been greatly improved. You will notice pages will pinch and zoom and scroll much easier. This is especially noticeable in Wiring Diagrams.
- Fixed an integration issue when setting up Google Print.
- Fixed an internal storage issue in which old update packages needed to be manually deleted from the tool to free up space.
- Improved viewing of vehicle and controller information during Data Stream playback

New Coverage – Special Test Highlights

Ford:

This update contains many key functions for Ford diesel vehicles:

Oil Change Reset:

- Application: 2011-16 Super Duty 6.7L Diesel, 2015-17 Transit 3.2L Diesel
- Use Case: Used to reset the Oil Life counter after oil change service is performed.

Particulate Filter Static Regeneration

- Application: 2011-17 Super Duty 6.7L Diesel, 2015-17 Transit 3.2L Diesel
- Use Case: Used to force the DPF regeneration process in a static (in the service bay) state.

SPECIAL TESTS Capture Menu

2017 Ford F-350 Super Duty Platinum 6.7L | PCM

Current DPF Loading Percentage

Current DPF Loading (%) - 65535

- 0% - 49% = Clean
- 50% - 99% = Part Loaded
- 100% - 120% = Loaded
- 121% - 199% = Over Loaded
- > 200% and up = Clogged

The Particulate Filter is Clogged.
DPF Regeneration should be performed at this time. -

Continue Abort

Reset CKP Wheel & Sensor Adaptation Values

- Application: 2011-17 Super Duty 6.7L Diesel, 2015-17 Transit 3.2L Diesel
- Use Case: This procedure will reset the learned values after removal/replacement of the CKP Sensor, or related components.

Reset Diesel Oxidation Catalyst (DOC) Parameters

- Application: 2011-17 Super Duty 6.7L Diesel
- Use Case: This procedure will reset the learned values after repair/replacement of DOC related components.

Reset Particulate Filter Differential Pressure Sensor

- Application: 2017 Super Duty 6.7L Diesel, 2015-17 Transit 3.2L Diesel
- Use Case: This procedure will reset the learned values after repair/replacement of the DPF Pressure Sensor, or related components.

Reset Particulate Filter Upstream Gauge Pressure Sensor

- Application: 2011-17 Super Duty 6.7L Diesel
- Use Case: This procedure will reset the learned values after repair/replacement of the DPF Upstream Gauge Pressure Sensor, or related components.

Reset Particulate Matter Sensor Learnt Values

- Application: 2011-17 Super Duty 6.7L Diesel
- Use Case: This procedure will reset the learned values after repair/replacement of the DPF Particulate Matter Sensor, or related components.

Reset Selective Catalyst Reductant (SCR) Parameters

- Application: 2011-17 Super Duty 6.7L Diesel, 2015-17 Transit 3.2L Diesel
- Use Case: This procedure will reset the learned values after repair/replacement of SCR related components.

SCR Dosing Quantity Measurement Test

- Application: 2011-17 Super Duty 6.7L Diesel, 2015-17 Transit 3.2L Diesel
- Use Case: This test allows the user to perform a test which measures the flow rate of the reductant injector.

SCR Emptying

- Application: 2011-17 Super Duty 6.7L Diesel, 2015-17 Transit 3.2L Diesel
- Use Case: This procedure allows the user to depressurize the SCR System and empty the reductant from SCR hydraulic lines.

SPECIAL TESTS Capture Menu

2017 Ford F-350 Super Duty Platinum 6.7L | PCM

SCR Emptying

Command State:

Reductant Line Pressure (KPA)	32767.50
Reductant Pump Duty Cycle (%)	100.00
Reductant Reverting Valve Duty Cycle (%)	100.00
Reductant Injector Duty Cycle (%)	100.00

Start Stop

SCR System Refill Activation

- Application: 2011-17 Super Duty 6.7L Diesel, 2015-17 Transit 3.2L Diesel
- Use Case: Use this procedure after refilling or replacing the reductant tank to activate the SCR system refill detection strategy.

SCR Visual Leak Check

- Application: 2011-17 Super Duty 6.7L Diesel, 2015-17 Transit 3.2L Diesel
- Use Case: This test pressurizes the SCR system to allow the user to inspect the system for leaks.

Reset Fuel System High/Low Pressure Side Parameters

- Application: 2011-17 Super Duty 6.7L Diesel, 2015-17 Transit 3.2L Diesel
- Use Case: This procedure will reset the learned values after repair/replacement of High or Low fuel pressure sensors.

Battery Saver Relay Control

- Application: Many BCM and ICM systems have this function
- Use Case: Used to command the battery saver relay on or off.

Mazda:

Passenger System Reset/OCS Reset

- Application: Most models
- Use Case: Used to calibrate the passenger seat weight sensor after the passenger seat, seat weight sensor, or any related components are removed or replaced.

Electric Oil Pump tests

- Application: Many 2.0L and 2.5L vehicles from 2012-2017, equipped with start-stop.
- Use Case: Used to command the operation of the transmissions auxiliary fluid pump.

Line Pressure Solenoid

- Application: Most vehicles with automatic transmissions.
- Use Case: Used to command the operation of the transmissions line pressure solenoid.

Pressure Control Solenoid Current – Commanded

- Application: Most vehicles with automatic transmissions.
- Use Case: Used to command the operation of the transmissions pressure control solenoid.

Shift Solenoid tests

- Application: Most vehicles with automatic transmissions.
- Use Case: Used to command the operation of the transmissions shift solenoids.

Torque Converter Clutch Control Solenoid Valve

- Application: Most vehicles with automatic transmissions.
- Use Case: Used to command the TCC solenoid on/off.

Torque Converter Clutch Solenoid Current

- Application: Most vehicles with automatic transmissions.
- Use Case: Used to command the TCC solenoid current (variable).

Volkswagen/Audi:

Actuator for Camshaft Adjustment

- Application: Most 2009-2015 Audi vehicles.
- Use Case: Used to cycle the variable cam adjustment actuator to ensure proper operation.

Forced Change-Up Adjustment

- Application: Most 2009-2017 Audi and 2017 Volkswagen vehicles.
- Use Case: Used to adjust the sensitivity of a forced up-shift from the transmission controller.

Mileage Data Adjustment

- Application: Most 2009-2017 Audi and Volkswagen vehicles.
- Use Case: This allows the user the change how the transmission controller reads the mileage (KPH or MPH).

Reset Adaptation Parameters

- Application: Most 2009-2017 Audi and Volkswagen vehicles.
- Use Case: Used to reset the transmission parameters back to the default factory setting after repair or replacement

Single Gear Indicator Adjustment

- Application: Most 2009-2017 Audi and Volkswagen vehicles.
- Use Case: Used to adjust for slack that has built up in the transmission cables and allowed the gear indicator to become out of sync.

Tiptronic Steering Wheel Button Adjustment

- Application: Most 2009-2017 Audi and 2017 Volkswagen vehicles.
- Use Case: Used to adjust the sensitivity of steering wheel mounted transmission gear shift paddles

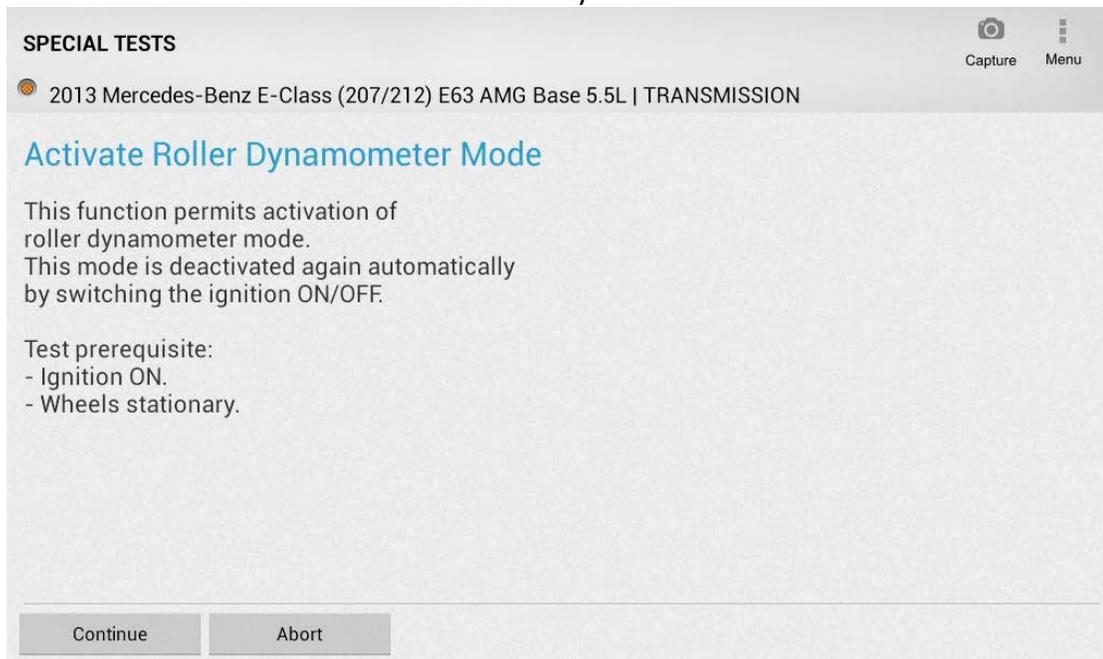
Transmission Rapid Adaptation

- Application: Most 2009-2015 Audi vehicles.
- Use Case: Used for a quick adaptation for the transmission after repair or replacement

Mercedes:

Activate Roller Dynamometer Mode

- Application: 2000-2017 Most models
- Use Case: Used for emission testing or tuning purposes. Function Disables some logic allowing the vehicle use on a chassis dyno



Reset Adaptation Values Converter Clutch

- Application: 2000-2017 Most models
- Use Case: This function can be used to help with transmission slip complaints, vehicle owner changes (helps transmission responsiveness), and post repairs like a converter clutch replacement or transmission replacement.

Reset Adaptation Parameters

- Application: 1999-2017 Most models
- Use Case: Used to reset the adaptation settings for a transmission after a replacement of the transmission, module, valve body, or general maintenance.

BMW:

Transmission - Oil Level Adjustments

- Application: 2012-2017 Most models
- Use Case: This function is required when replacing transmission fluid. It monitors the fluid temperature and also can assist with bleeding air from the system.

SPECIAL TESTS Capture Menu

2015 BMW 535i (F10) xDrive 3.0L | TRANSMISSION

Transmission - Oil Level Adjustments

Select your reason for performing the transmission oil level adjust

- 1-Oil level check due to faults in the transmission control.
- 2-Transmission replacement without purging the cooling system.
- 3-Transmission replacement with purging of the cooling system.
- 4-Refilling after part exchange (oil sump was removed) or converter replaced.

SPECIAL TESTS Capture Menu

2015 BMW 535i (F10) xDrive 3.0L | TRANSMISSION

Transmission - Oil Level Adjustments

- 2-Transmission replacement without purging the cooling system.
- 3-Transmission replacement with purging of the cooling system.
- 4-Refilling after part exchange (oil sump was removed) or converter replaced.
- 5-Radiator exchange (radiator, thermostat or trans oil cooler lines).
- 6-Exit Test

Display and Reset Adaptation Values

- Application: 2011-2017 Most models
- Use Case: Used to restore factory settings to adaptation values after transmission service or repair. Can also assist with driver complaints like shift quality or economy concerns.

Neutral Learning Mode

- Application: 2012-2017 Most models
- Use Case: Required function when the transmission shift actuator is removed or replaced. Function resets home position so the vehicle shifts to the proper gear when commanded.

Reset Learning Function

- Application: 2012-2017 Most models
- Use Case: Required function when replacing components such as shift paddles or gear selector lever, or to assist with incorrect installations of transmissions or final drives.

New Coverage Details – USA Domestic

Chrysler/Jeep Coverage

8 new Adjustment type special tests including:

- **Others** – Tests for POWER SLIDING door modules, POWER LIFTGATE Open Door Calibration, AUDIO tests for hard drive backup

2 new Actuation type special tests including:

- **Engine/PCM** - AC Discrete Output
- **Others** - POWER SLIDING DOORS Sliding Door Close Test

Special test fixes/improvements:

- 2001 300M ENGINE - fixed IAC TEST not working properly

Ford Coverage

72 new Adjustment type special tests including:

- **Engine/PCM** - Clear Transmission Adaptive KAM Tables, DPF Parameter Reset Fuel Injector Adaptive Reset tests, Initialize Adaptive KAM Tables, Oil Change Reset, Particulate Filter Static Regeneration, Reset CKP Wheel & Sensor Adaptation Values, Reset Diesel Oxidation Catalyst (DOC) Parameters Reset Fuel System High Pressure Side Parameters, Reset Fuel System Low Pressure Side Parameters, Reset KAM, Reset MAF (Mass Air Flow) Sensor Parameters, Reset Min Fuel Mass Adaptation tests, Reset NOx Sensor Learnt Value tests, Reset Oil Service Counters, Reset Oxygen Sensor Learnt Values, Reset Particulate Filter Differential Pressure Sensor, Reset Particulate Filter Upstream Gauge Pressure Sensor, Reset Particulate Matter Sensor Learnt Values, Reset Selective Catalyst Reductant (SCR) Parameters, SCR Dosing Quantity Measurement Test, SCR Emptying, SCR System Refill Activation, SCR Visual Leak Check, Stop Trans-Adaptive Learning And Measure Slip Time
- **Transmission** - Cable Adjustment Mode, Clear Transmission Adaptive KAM Tables, Do Not Use The Transmission Adaptive KAM Tables, Initialize Adaptive KAM Tables, Reset KAM, Stop Trans-Adaptive Learning And Measure Slip Time
- **Brakes/ABS** - ABS Service Bleed, Calibrate Longitudinal Acceleration Sensor, Electronic Integrated Park Brake, IVD Initialization Sequence, IVD Sensors Calibration, Multi-Calibration Routine

- **Safety/Airbag** - Passenger System Reset/OCS Reset
- **Suspension** - Ride Height Calibration
- **Steering** - Pull Drift Compensation Reset, Steering Wheel Position Sensor Calibration
- **Body Control** - Battery Monitor System Reset, BCM Crash Status Reset

113 new Actuation type special tests including:

- **Engine/PCM** – All Wheel Drive Clutch Control Commanded, EGR Cooler Bypass Valve, Electric Transmission Fluid Pump Control Duty Cycle, Engine Running Fuel Pressure Test, EVAP Leak Test, EVAP Purge/Vent Control, Fan Control tests, Glow Plug Relay, High Pressure Fuel System Test, Low Pressure Fuel Leakdown Test, Reductant Pump Heater Control, Reductant Reverting Valve Duty Cycle – Commanded, Variable Geometry Turbocharger
- **Transmission** – KOEO, KOER, On Demand Test
- **Brakes/ABS** - ABS Booster Solenoid Current, All Dump Valve Output Request, Hydraulic Pump Motor, Dump and Isolation Valve tests,
- **Instrument Cluster** – Lamp/Warning tests
- **Body Control** - Side Marker tests, Glove Box Release Motor, Battery Saver Relay Control, Chimer Control, Safety Belt Warning Lamp, Washer Pump Relay Circuit
- **Seat** – Climate-Controlled Seat Cool Command, Climate-Controlled Seat Heat Command, Climate-Controlled Seat Temperature Off Command, Turn Passenger Climate Control Seat Blower Full Power, Pedals Backward, Pedals Forward, Seat Height Motor Down, Seat Height Motor Up
- **Others** - Tests for AUDIO modules

Special test fixes/improvements:

- 2003 F-350 6.0L ENGINE - fixed EGR tests not working properly

General Motors / Saturn Coverage

- New Coverage for 2018MY vehicles and system
- Added coverage for 1,312 new systems
- Added coverage for 1,585 new vehicle-ecu combinations

2 new Adjustment type special tests including:

- **Steering** - Steering Wheel Angle Sensor Learn
- **Body Control** - Tire Pressure Sensor Registration

New Coverage Details - USA Asian

Honda/Acura Coverage

- Added coverage for 4 new vehicle-ecu combinations

Hyundai Coverage

- PIDs coverage for 2017 & 2018 MY
- Added coverage for 164 new vehicle-ecu combinations

Kia Coverage

- PIDs coverage for 2017 & 2018 MY
- Added coverage for 6 new vehicle-ecu combinations

Mazda Coverage

- Added coverage for 6 new vehicle-ecu combinations

4 new Adjustment type special tests including:

- **Engine/PCM** - Reset KAM
- **Safety/Airbag** - Passenger System Reset/OCS Reset
- **Other** - INSTRUMENT CLUSTER test for TPMS Initialization

127 new Actuation type special tests including:

- **Engine/PCM** - Air Conditioning Compressor Command State, Desired Generator Voltage, Desired RPM, EVAP Canister Purge Valve, EVAP Canister Vent Valve, Evaporative Emission Vapor Management Valve Fuel Injector tests, Fuel Pump, Intake Manifold Runner Control, Variable Fan Duty Cycle, Wastage Valve Position
- **Transmission** - Electric Oil Pump tests, Line Pressure Solenoid, Pressure Control Solenoid Current – Commanded, Shift Solenoid tests, Torque Converter Clutch Control Solenoid Valve, Torque Converter Clutch Solenoid Current
- **ABS/Brakes** – Inlet and Outlet Valve tests, Pump Motor Supply
- **Instrument Cluster** - All LCD Segments, ID Regist Mode, Speedometer, Tachometer
- **Climate/HVAC** - Airflow Mode Actuator, Blower Motor, Information Display
- **Body Control** - Lamp and Buzzer/Warning tests, Window tests, Door Lock tests, Wiper/Washer tests
- **Others** - tests for BLIND SPOT MONITORING, SMART START UNIT

Mitsubishi Coverage

- Added coverage for 2 new vehicle-ecu combinations

Nissan/Infiniti Coverage

- Added coverage for 4 new vehicle-ecu combinations

Toyota/Lexus Coverage

- Added coverage for 1 new vehicle-ecu combinations

7 new Adjustment type special tests including:

- **Safety/Airbag** - PRE-COLLISION 2 tests for History Clear, PCS Alarm Activation Distance Retention Setting tests, PCS Operation State Retention Setting, PCS Warning Sensitivity Retention Setting, RCTAB Function

7 new Actuation type special tests including:

- **Others** - PRE-COLLISION 2 tests for Infrared Signal Status and Alarm Buzzer

New Coverage Details – USA European

Audi Coverage

1,300 new Adjustment type special tests including:

- **Engine/PCM** - Camshaft Adjustment (Exhaust), Camshaft Adjustment (Intake), Carbon Mass (DPF Replacement), Charge Pressure Control, Climate Compressor Torque Calibration, EGR tests, EVAP tests, Fuel Injection tests, Fuel Pump Alignment, Fuel Supply System tests, Idle Speed Adjustment, Injector Calibration tests, Intake Manifold Runner/Motor tests, Lambda Control tests, Learned Values Reset, Mass Air Flow Sensor Check, Throttle tests, Turbo Charger Boost Control tests
- **Transmission** - Forced Change-Up Adjustment, Mileage Data Adjustment, Reset Adaptation Parameters, Single Gear Indicator Adjustment, Tiptronic Steering Wheel Button Adjustment, Transmission Rapid Adaptation
- **ABS/Brakes** - Activate ESP System/Function Test, Adjustment Of Brake Pressure Sensor, Adjustment Of Lateral Acceleration Sensor, Adjustment Of Longitudinal Acceleration Sensor, Adjustment Of Rotation Rate & Lateral/Longit. Acc. Sensor, Adjustment Of Steering Angle Sensor, Brake System Bleeding, Hydraulic Brake Assist (HBA), Installation Park Steer Assist (PLA), Open Rear Parking Brake (Prior Pad Change/Repair), Pad Thickness, Parking Brake Function Test
- **Climate Control/HVAC** - Air Flow Flap Control Motor (V71), Air Recirculation Flap Control Motor (V113),
- **Suspension** - Compressor, Exhaust Solenoid, Setting Initialize Completion Flag, Warning Lamp, Level Control System Deactivation / Jack Mode
- **Steering** - Adjustment Of Steering Angle Sensor, Steering Angle Sensor Alignment, Torque Steer Compensation (TSC)
- **Others** – Tests for AIRBAG (15), BATTERY REGULATION (61), CAN GATEWAY (19), CENTRAL CONVENIENCE (46), CENTRAL ELECTRONICS (09), DASH BOARD, INSTRUMENTS (17), RADIO (56), STEERING COLUMN ELECTRONICS, DOOR ELECTRONICS, SEAT ADJUSTMENT, XENON RANGE (55)

1,514 new Actuation type special tests including:

- **Engine/PCM** - Actuator For Camshaft Adjustment, Air Condition Compressor Activation, Camshaft Pos Actuator tests, Charge Motion Valve tests, Coolant tests, Disengagement Clutch Actuator Test, EGR tests, EVAP tests, Fan Control tests, Fuel Injector tests, Fuel Pressure Regulator tests, Glow Plug Control Module 1, Idle Speed Adjustment, Magnetic Clutch For Supercharger, Oil Pressure Valve, PTC Heating Element tests, Radiator Shutter Control tests, Reductant Pump, SCR Heating tests, Secondary Air Injection tests, Throttle Valve tests, Turbo Charger Control Valve, Wastegate Solenoid, tests for REDUCTANT CONTROL MODULE
- **Hybrid** – tests for THERMAL MANAGEMENT, BATTERY CHARGER CONTROL MODULE, BATTERY ENERGY CONTROL MODULE, DC/DC CONVERTER CONTROL MODULE, DRIVE MOTOR CONTROL MODULE, HIGH VOLTAGE BATTERY CHARGE MAN, STARTER/GENERATOR CONTROL MOD
- **Transmission** – Additional Hydraulic Pump For Gearbox Control Valve, Coolant Shut-Off Valve Control Value, Open Converter Clutch Control Value, Shift Lock Control Value, tests for GEAR SHIFT CONTROL MODULE
- **ABS/Brakes** – Lamp tests, Inlet and Outlet Valve tests, Complete Test Of ECU Valves And Pump Motor Control Value On OFF, Hydraulic Pump, Parking Brake Motors, Vacuum Pump For Brakes Actuation Control Value On OFF

- **Safety/Airbag** - Active Headrest Control Onoff, Actuator Test Crashsignal Control Onoff, Actuator Test Highvoltage Disable Control Onoff, Actuator Test Precrash ICM Display Text Control Onoff, Actuator Test Precrash Pretensioner Control Onoff, Actuator Test Precrash Vehicle Conditioning Control Onoff, PWM Signal Belt, Rolloverbars Control Onoff
- **AWD/Transfer Case** – Clutch Valve For Four-Wheel Drive, Fill Pressure Lines, Haldex Trans Act Ctrl Val, Pressure Test, Pump For All Wheel Drive Electronic Valve tests, Torque Demand tests
- **Suspension** - Actuate Vehicle Control Value tests, Air Spring Additional Volume tests, Damper Front Control State tests, Damper Rear Control State tests, Lower Vehicle Control tests
- **Climate (HVAC)** – AC Compressor Control Valve, Air Condition Compressor Activation, Air Conditioner Performance Test, Flap Door tests, Blower, Dash Panel Vent Positioning Motor Test, Defroster Flap Control Motor tests, Electrical Air Conditioner Compressor Test, EMC Mode Flap Control Motors Test, Footwell Flap Positioning Motor Actuation Control Value On Off, Fresh Air Blower tests, High Voltage Heater Test, Seat Heater tests, Positioning Motor tests, Segment test, tests for CLIMATE CONTROL UNIT REAR
- **Seats** – tests for MULTI CONTOUR SEAT modules, tests for SEAT ADJUSTMENT modules,
- **Others** – tests for ACCESS STARTSYSTEM INTERFACE, AUXILIARY DISPLAY CONTROL UNIT, BATTERY REG AUX ACCUMULATOR 1, CENTRAL ELECTRICS, CENTRAL MODULE COMFORT SYSTEM, CONTROL MODULE FOR SUNROOF, CONTROL UNIT WIRELESS CHARGING, DASH BOARD, DECK LID CONTROL UNIT, DOOR ELECTRONICS modules, ELECTRONIC ROOF CONTROL, FRONT SENSORS DRIVER ASSISTANCE, GATEWAY, HEADLIGHT REGULATION, HIGH BEAM ASSISTANCE, INFORMATION CONTROL UNIT 1, LANE CHANGE ASSISTANT, LIGHT CONTROL modules, LOCK ELECTRONICS, PARKING ASSISTANCE, SOUND SYSTEM, SPECIAL FUNCTION, STEERING COLUMN ELECTRONICS, TELEPHONE, TRAILER FUNCTION

BMW/Mini Coverage

- Expanded coverage for many systems 2014-2017MY
- Added coverage for 116 new systems
- Added coverage for 426 new vehicle-ecu combinations

11 new Adjustment type special tests including:

- **Engine/PCM** - MSA Starter Exchange/Reset, Particle Filter Exchange
- **Transmission** - Display And Reset Adaptation Values, Neutral Learning Mode, Reset Learning Function, Transmission - Oil Level Adjustments
- **ABS/Brakes** - Brake Fluid Flush Reminder (CBS) Reset, Front Brake Pad Wear Interval Reset, Rear Brake Pad Wear Interval Reset
- **Suspension** - Ride Height Adjustments
- **Others** - FUNCTIONAL ROOF Slide/Tilt Sunroof Initialization

46 new Actuation type special tests including:

- **Engine/PCM** - Blow Off Valve Exhaust Turbo Actuation, Coolant System Ventilation, Idle Speed Adjust, Injector (1-8) off (Engine Running Injector KILL Test), Tank Ventilation Valve Actuation, Throttle Control
- **ABS/Brakes** - ABS Pump Activation Test (5 seconds)
- **Climate (HVAC)** - Activate Heated Rear Window, Compressor Clutch, Control the blower, Control Valve In A/C Compressor, FBM tests, Flap Motor Opening tests
- **Seats** – tests for PASSENGER SIDE JUNCTION BOX, IMMOB/FRONT ELEC/BODY/JUNCT BOX

Mercedes Benz

- Added coverage for 4 new vehicle-ECU combinations

49 new Adjustment type special tests including:

- **Transmission** - Activate Roller Dynamometer Mode, Reset Adaptation Parameters, Reset Adaptation Values Converter Clutch
- **ABS/Brakes** – Bleed, Brake Pad Replacement Step 1, Brake Pad Replacement Step 2, Brake Pressure Sensor Zero Pos. Compensation, Calibrate Parking Brake, Calibrate Steering Wheel Angle Sensor, Lateral Acceleration Sensor Zero Position Calibration, Longitudinal Acceleration Sensor Zero Position Calibration, Null Balancing - Steering Wheel Angle Sensor
- **Climate (HVAC)** - Adapting Of Control Motors, Basic Setting, Refrigerant Compressor Run-In
- **Suspension** - Reset Compressor Parameters
- **Others** – INSTRUMENT CLUSTER Oil Change Data, Resetting Of Service-Interval Display, Service Requirement, ASSYST PLUS Read Service History, Read Service Needs

9 new Actuation type special tests including:

- **ABS/Brakes** – Test Drive Deactivation
- **Climate (HVAC)** - Compressor Actuator Signal, Defrost And Footwell Flaps – Digital, Engine Fan, Mixing Air Flaps(Digital)
- **Steering** - Steering Wheel Position Functional Test

Volkswagen Coverage

- Added coverage for 101 new vehicle-ecu combinations

1,233 new Adjustment type special tests including:

- **Engine/PCM** - Camshaft Adjustment (Exhaust), Camshaft Adjustment (Intake), Carbon Mass (DPF Replacement), Charge Pressure Control, Climate Compressor Torque Calibration, EGR tests, EVAP tests, Fuel Injection tests, Fuel Pump Alignment, Fuel Supply System tests, Idle Speed Adjustment, Injector Calibration tests, Intake Manifold Runner/Motor tests, Lambda Control tests, Learned Values Reset, Mass Air Flow Sensor Check, Throttle tests, Turbo Charger Boost Control tests
- **ABS/Brakes** - Activate ESP System/Function Test, Adjustment Of Brake Pressure Sensor, Adjustment Of Lateral Acceleration Sensor, Adjustment Of Longitudinal Acceleration Sensor, Adjustment Of Rotation Rate & Lateral/Longit. Acc. Sensor, Adjustment Of Steering Angle Sensor, Brake System Bleeding, Hydraulic Brake Assist (HBA), Installation Park Steer Assist (PLA), Open Rear Parking Brake (Prior Pad Change/Repair), Pad Thickness, Parking Brake Function Test
- **Climate Control/HVAC** - Air Flow Flap Control Motor (V71), Air Recirculation Flap Control Motor (V113),
- **Suspension** - Compressor, Exhaust Solenoid, Setting Initialize Completion Flag, Warning Lamp, Level Control System Deactivation / Jack Mode
- **Steering** - Adjustment Of Steering Angle Sensor, Steering Angle Sensor Alignment, Torque Steer Compensation (TSC)
- **Others** – Tests for AIRBAG (15), CAN GATEWAY (19), CENTRAL CONVENIENCE (46), CENTRAL ELECTRONICS (09), INSTRUMENTS (17), RADIO (56), STEERING COLUMN ELECTRONICS, DOOR ELECTRONICS, SEAT ADJUSTMENT, XENON RANGE (55)

1,447 new Actuation type special tests including:

- **Engine/PCM** - Actuator For Camshaft Adjustment, Air Condition Compressor Activation, Camshaft Pos Actuator tests, Charge Motion Valve tests, Coolant tests, Disengagement Clutch Actuator Test, EGR tests, EVAP tests, Fan Control tests, Fuel Injector tests, Fuel Pressure Regulator tests, Glow Plug Control Module 1, Idle Speed Adjustment, Magnetic Clutch For Supercharger, Oil Pressure Valve, PTC Heating Element tests, Radiator Shutter Control tests, Reductant Pump, SCR Heating tests, Secondary Air Injection tests, Throttle Valve tests, Turbo Charger Control Valve, Wastegate Solenoid, tests for REDUCTANT CONTROL MODULE
- **Hybrid** – tests for THERMAL MANAGEMENT, BATTERY CHARGER CONTROL MODULE, BATTERY ENERGY CONTROL MODULE, DC/DC CONVERTER CONTROL MODULE, DRIVE MOTOR CONTROL MODULE, HIGH VOLTAGE BATTERY CHARGE MAN, STARTER/GENERATOR CONTROL MOD
- **Transmission** – Additional Hydraulic Pump For Gearbox Control Value, Coolant Shut-Off Valve Control Value, Open Converter Clutch Control Value, Shift Lock Control Value, tests for GEAR SHIFT CONTROL MODULE
- **ABS/Brakes** – Lamp tests, Inlet and Outlet Valve tests, Complete Test Of ECU Valves And Pump Motor Control Value On OFF, Hydraulic Pump, Parking Brake Motors, Vacuum Pump For Brakes Actuation Control Value On OFF
- **Safety/Airbag** - Active Headrest Control Onoff, Actuator Test Crashsignal Control Onoff, Actuator Test Highvoltage Disable Control Onoff, Actuator Test Precrash ICM Display Text Control Onoff, Actuator Test Precrash Pretensioner Control Onoff, Actuator Test Precrash Vehicle Conditioning Control Onoff, PWM Signal Belt, Rolloverbars Control Onoff
- **AWD/Transfer Case** – Clutch Valve For Four-Wheel Drive, Fill Pressure Lines, Haldex Trans Act Ctrl Val, Pressure Test, Pump For All Wheel Drive Electronic Valve tests, Torque Demand tests
- **Suspension** - Actuate Vehicle Control Value tests, Air Spring Additional Volume tests, Damper Front Control State tests, Damper Rear Control State tests, Lower Vehicle Control tests
- **Climate (HVAC)** – AC Compressor Control Valve, Air Condition Compressor Activation, Air Conditioner Performance Test, Flap Door tests, Blower, Dash Panel Vent Positioning Motor Test, Defroster Flap Control Motor tests, Electrical Air Conditioner Compressor Test, EMC Mode Flap Control Motors Test, Footwell Flap Positioning Motor Actuation Control Value On Off, Fresh Air Blower tests, High Voltage Heater Test, Seat Heater tests, Positioning Motor tests, Segment test, tests for CLIMATE CONTROL UNIT REAR
- **Seats** – tests for MULTI CONTOUR SEAT modules, tests for SEAT ADJUSTMENT modules,
- **Others** – tests for ACCESS STARTSYSTEM INTERFACE, AUXILIARY DISPLAY CONTROL UNIT, BATTERY REG AUX ACCUMULATOR 1, CENTRAL ELECTRICS, CENTRAL MODULE COMFORT SYSTEM, CONTROL MODULE FOR SUNROOF, CONTROL UNIT WIRELESS CHARGING, DASH BOARD, DECK LID CONTROL UNIT, DOOR ELECTRONICS modules, ELECTRONIC ROOF CONTROL, FRONT SENSORS DRIVER ASSISTANCE, GATEWAY, HEADLIGHT REGULATION, HIGH BEAM ASSISTANCE, INFORMATION CONTROL UNIT 1, LANE CHANGE ASSISTANT, LIGHT CONTROL modules, LOCK ELECTRONICS, PARKING ASSISTANCE, SOUND SYSTEM, SPECIAL FUNCTION, STEERING COLUMN ELECTRONICS, TELEPHONE, TRAILER FUNCTION

Volvo

- Added coverage for 15 new vehicle-ecu combinations