

## Version 3.7.0.23

### Overview:

The new version 3.7.0.23 contains a major coverage release! Also provided are selected highlights of new features, improvements, 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 are receiving. More coverage and enhancements on the way!

### New Vehicle Coverage

- **Ford** – New coverage for 2016MY vehicles and systems
- **Ford** – New coverage for Brake Pad Replacement test
- **Ford** – Expanded coverage for High Pressure Fuel System Test, Low Pressure Fuel Leakdown Test, MAF Sensor Contamination Test
- **Chrysler/Jeep** – New coverage for 2016MY vehicles and systems
- **Chrysler/Jeep** - New Coverage for 2015-2016MY Jeep Renegade
- **Mazda** - Expanded coverage for 4X4 Control, Audio Control, Front Controls and Parking Aid systems
- **Subaru** – New coverage for 2014-2016MY vehicles and systems
- **Alfa Romeo** – New coverage for 2016MY vehicles and systems
- **BMW/Mini** – New coverage for 2015MY vehicles and systems, including i3 and ActiveHybrid models
- **BMW/Mini** – Expanded coverage for many pre-2015MY Body and Chassis Systems
- **BMW/Mini** – Expanded systems coverage for 2001-2006 Mini Cooper
- **BMW/Mini** – High-value adjustment tests that include VANOS Adaptation, Steering Angle Sensor Adjustment, Oil Maintenance Reset, Sunroof Initialization and Rain/Light Sensor Initialization
- **Fiat** – New coverage for 2016MY vehicles and systems
- **Mercedes Benz** – New coverage for 2015MY vehicles and systems
- **Volkswagen/Audi** – New coverage for 2014-2015MY vehicles and systems
- **Volkswagen/Audi** – Expanded coverage for UDS protocol systems 2008-2013
- **TPMS** – Expanded coverage and improvements for Tire Pressure Sensor Registration for GM, Chrysler/Jeep, Nissan/Infiniti, Toyota/Lexus, Hyundai, Kia, Mazda, Mitsubishi, Subaru
- **New Systems** -5,420
- **New Vehicle-ECU Combinations** – 22,060
- **New Adjustment type tests** – 515
- **New Actuation type tests** – 5,171
- **Updated Diagnostic Information for the following:**
  - PCM Connector Pin Information (B.O.B) for 2013-2016MY Chrysler/Jeep and 2015MY Ford
  - Data Item Operating Ranges for 2015MY Mitsubishi
  - TPMS Quick Reference Information for GM, Mazda, Nissan, Toyota, Audi, Land Rover, Mercedes Benz and Volkswagen

- Battery Disconnect procedures and reference information
- Key Programming procedures and reference information

## ***New Coverage – USA Domestic***

### **Chrysler/Jeep Coverage**

- New coverage for 2016MY vehicles and systems
- New Coverage for 2015-2016MY Jeep Renegade
- Added coverage for 262 new systems
- Added coverage for 614 new vehicle-ecu combinations

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

- **Engine/PCM** - Actuation Of Mixture Adaptation, Clear Misfire TLC, Enable / Disable Vehicle Features, Oil Change Monitor Type, PTO RPM Adjustment, Reset Adaptive After Oil Change, Reset Adaptive After Memory, Reset Adaptive After Block Change, Reset Air-Fuel Adaptives, Reset Camshaft Adaptives, Reset VVA Freeze Incorrect, Set Max Cruise Speed, Set Max Vehicle Speed, Snorkel Output Test
- **Transmission/Electronic Shifter** - Clear Self-Learning Data
- **ABS** - Longitudinal And Lateral Sensor Calibration, Pressure Sensor Calibration
- **Tire Pressure Monitor/WCM** - Tire Pressure Sensor Registration
- **Climate (HVAC)** - HVAC FGA Self Learning Motors Test
- **Instrument Cluster** - Oil Service Reset, Reset Service Information, Seat Belts Alarm Enable, Seat Belts Alarm Exclusion, TPM Pressure Update to Placard Value
- **Steering** - Clear Steering Pull Compensation, Steering Angle Calibration
- **Others** - Actuate Seat Recall, Clear All Learned Seat Parameters, Heated Seat NTC Validation, AUDIO Input Test, AUDIO Software Test

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

- **Engine/PCM** - Boost Pressure Actuator, Check PCM VIN, Coolant Three Way Valve Test, Engine After Run Coolant Pump, Fuel Injector tests, Fuel Pump tests, Ignition Coil tests, Metering Unit Actuator, Overdrive Switch Test, Pressure Regulator Valve, Purge Valve Duty-Cycle, Radiator Fan 1 Duty Cycle, Surge Valve Solenoid, Throttle Valve Actuator, Variable Swirl Actuator, VVA Cylinder tests
- **Transmission/Electronic Shifter** - Command Shift Lock, Line Pressure Output Current Value, Linear Solenoid tests, Pump Management, Shift Solenoid tests, ShiftLock, Torque Converter Clutch tests
- **ABS** – Lamp and Indicator tests, Inlet and Outlet Valve tests, Pilot Valve Activation tests, Priming Valve Activation tests, Recirculation Pump, Wheel Speed Sensor Functional Test
- **AWD/Transfer Case** - Rollbench Mode
- **Instrument Cluster** – Lamp and Indicator tests, IPC Self Test, Seat Belt Warning Chime, Vehicle Theft Alarm
- **Climate (HVAC)** - Front Blower Motor, HVAC Cool Down Test, Left Air Distribution Motor, Left Air Mix Servo Motor Target Position, Recirculation Motor Position, Right Air Mixing Motor

- **Body Control** - Lamp and Buzzer/Warning tests, Door Lock tests, Window tests, Wiper/Washer tests, Headlight tests, Turn Signal tests, Automated Driver Door Open, Driver heated seat relay command
- **Others** - tests for AUDIO and RADIO, COMFORT STEERING WHEEL, RADIO FREQUENCY HUB, TELEMATICS GATE WAY

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

- 2013 Ram 5.7L ENGINE - fixed EVAP ESIM test not working properly
- 2008 Avenger ENGINE – fixed Intake Manifold Runner Control does not display data items
- 2007 Grand Caravan ENGINE - fixed EGR Test not available
- 2005 300C TRANSMISSION - fixed Reset Adaptive Values test not working properly
- 2004 Ram ABS - fixed Set Pinion Factor not working properly for some tire sizes
- 2001 Dakota 5.9L ENGINE – fixed No CAM Sync test available

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

- PCM Connector Pin Information (B.O.B) for 2013-2016MY

## ***Ford Coverage***

- New coverage for 2016MY vehicles and systems
- New coverage for Brake Pad Replacement test
- Expanded coverage for High Pressure Fuel System Test, Low Pressure Fuel Leakdown Test, MAF Sensor Contamination Test
- Added coverage for 490 new systems
- Added coverage for 942 new vehicle-ecu combinations

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

- **Engine/PCM** - Misfire Monitor Neutral Profile Correction, Reset KAM
- **Brakes/ABS** - Electronic Integrated Park Brake, Brake Fluid Replacement - Without Power Bleeder, Brake Pad Replacement, Brake System Actuation Control Unit Check, Brake System Air Bleed Check, Service Bleeding Including Brake Fluid Replacement

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

- **Engine/PCM** – A/C tests, Camshaft tests, DC to DC Converter Enable, Desired Engine Cooling Fan Speed, Engine Running Fuel Pressure Test, EVAP tests, Fan tests, Fuel Injector tests, Fuel Pressure tests, Heater Pump Control Relay, High Pressure Fuel System Test, Low Pressure Fuel Leakdown Test, MAF Sensor Contamination Test, Motor Electronics Coolant Pump, Power Balance, Transmission tests, Turbocharger Wastegate Control
- **Transmission** - Gear Command By Output State Control, On Demand Test
- **Brakes/ABS** - ABS Booster Solenoid Current, Hydraulic Pump Motor, Inlet Valve tests, Outlet Valve tests, TCS Priming Valve tests, On Demand Test
- **AWD/Transfer Case** - CCW Relay, CW Relay, On Demand Test, Shift Motor Position Sense Contact Plate Power Circuit Status,
- **Instrument Cluster** - Lamp tests, Gauge tests, Segment tests, Button tests, Dimming Control, On Demand Test, Voltmeter Pointer Placement Command

- **Climate (HVAC)** - Air Mode Actuator, Front Blower Relay, Left Blend Door Mode, Right Blend Door Mode
- **Body Control** - Lamp and Buzzer/Warning tests, Door Lock tests, On Demand Test, Wiper tests, Turn Signal tests, Headlight tests
- **Seat** – Bladder Inflate tests, Memory tests, Front Motor Up/Down, Horizontal Motor Backward/Forward, Rear Motor Up/Down, Recline Motor Back / Forth, Seat Heat and Cool Command tests, Telescope In/Out, Tilt Up/Down
- **Others** - Tests for REMOTE FUNCTION ACTUATOR Passenger Door(s) Unlock, AUDIO CONTROL, DRIVER DOOR MODULE, DIGITAL SIGNAL PROCESSING, TRAILER MODULE

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

- 2008 Super Duty 6.4L ENGINE - fixed DPF Regen test not working properly
- 2006 Escape Hybrid ABS - fixed Would not perform ABS Bleed
- 2001 Expedition - fixed Could not reprogram keys

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

- PCM Connector Pin Information (B.O.B) for 2016MY

## **General Motors / Saturn Coverage**

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

- **Engine/PCM** - Ambient Air Temperature Calculation Reset, Oil Life Reset
- **Transmission** - Trans. Oil Life Reset
- **Brakes/ABS** - Automated Bleed, Automated Brake Bleed, Steering Wheel Angle Sensor Centering, Yaw Rate Sensor Recalibration
- **Tire Pressure Monitor/RCDLR** - Tire Pressure Sensor Registration, Tire Pressure Sensors Learn
- **Transfer Case** - Reset Clutch Overtemp Counter
- **Body Control** - Brake Pedal Position Sensor Calibration, CTD Operation, Door Lock Operation, Fob Feedback Preferences, Setup SDM Part Number In BCM
- **Others** – Radio Setup, Set Language, Ship Mode

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

- **Engine/PCM** - Auxiliary Coolant Pump Relay, Cylinder Power Balance, EGR Valve, EVAP Purge/Seal, Fuel Injector Balance, Fuel Pressure Control, Injector Enable/Disable
- **ABS/Parking Brake** - Disable Tim, Right Front Inlet Valve Solenoid
- **Transmission** - TCC PC Solenoid Electrical
- **Transfer Case** - Clutch Control, Clutch Coupling Request, Clutch Return
- **Climate/HVAC** - Blower Motor, Defrost Mode, Left Mix Motor, Mode Door Position, Right Mix Motor
- **Body Control** - Lamp and Buzzer/Warning tests, Headlight tests, Door Lock tests, Wiper/Washer tests

- **Seat** - Front Up/Down, Lumbar Forward/Backward, Lumbar Up/Down, Rear Up/Down, Recline Forward/Backward, Recline Forward/Backward, MEMORY SEAT tests for Lumbar, Position and Recline

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

- 2014 Express 4.8L ENGINE – fixed EVAP Purge/Seal does not display data items
- 2013 Yukon XL 5.3L PCM – fixed no tests available
- 2013 Silverado 2500 6.6L PCM – fixed Reductant Heater tests not working properly
- 2012 Acadia 3.6L PCM – fixed Injector Balance test not working properly
- 2011 Sierra 6.6L ENGINE – fixed Reductant Heater tests not working properly
- 2011 Traverse – fixed Passenger Presence Reset test not available
- 2010 Terrain 2.4L PCM – fixed Power Balance test not available
- 2009 Avalanche TRANSFER CASE – fixed Engage Front Axle test not working properly
- 2009 Vue 3.5/3.6L PCM – fixed Transmission Reset Adapts test not available
- 2008 Acadia 3.6L PCM - fixed EVAP tests not available
- 2008 CTS 3.6L PCM - fixed Idle Relearn test not available
- 2008 Suburban 5.3L PCM - fixed Fuel Composition test not available
- 2007 Canyon BODY - fixed tests not available
- 2004 Aveo ENGINE - fixed Crankshaft Relearn test not working properly

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

- TPMS Quick Reference information

## ***New Coverage – USA Asian***

### ***Honda/Acura Coverage***

- Added coverage for 89 new systems
- Added coverage for 498 new vehicle-ecu combinations

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

- **ABS** - All Sensor Calibration, Sensor Calibration Test
- **Instrument Panel** - ATF Reset, Engine Oil Life Reset, Sub Item 1-6 Resets
- **Others** - Adaptive Cruise Control tests

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

- **ABS** - ABS Brake Light Relay/TSA Relay Test
- **Instrument Cluster** - Self-Diagnostic Function
- **Body Control** - Detect Equipped Honda Body Systems
- **Others** - INTEGRATED DRIVER ASSIST tests for ACC Indicator Light, ACC Relay, CMBS Brake

**Special test fixes/improvements:**

- 2006 MDX ABS - fixed All Sensor Calibration test not working properly

**Other fixes/improvements:**

- 2015 Accord TPMS - fixed communication issues
- 2002 Civic ABS - fixed issue reading DTCs

**Hyundai Coverage****20 new Adjustment type special tests including:**

- **Engine/PCM** - Auto Detected Configuration Reset, PCM Auto Detection Reset, Reset Adaptive Values, TEC learn, TPS Min Learnt Reset, VCM Learning, Write VIN
- **ABS** - Auto Detected Configuration Reset
- **Other** – Blind Spot Radar Calibration

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

- **Engine/PCM** – A/C Clutch and Compressor tests, Cam Phaser tests, EVAP tests, Change Oil Lamp, CKP CMP Signal Test, Cooling Fan tests, CVVT Test, ETC Motor, Fuel Pressure tests, Fuel Pump tests, Injector tests, Ignition Coil tests, O2 Sensor Heater tests, Oil Control Valve tests, Variable Intake Manifold tests
- **ABS/Brakes** - DBC/HAC Brake Lamp Relay, Electric Shuttle Valve, Inlet and Outlet Valve tests, Motor Test, TCS Valve tests
- **Electric Parking Brake** - Actuator Control Apply, Actuator Control Release, Lamp tests, Maintenance Mode Apply and Release tests
- **Others** - tests for PRESAFE SEAT BELT, ASSIST DOOR MODULE, SEAT LUMBAR BOLSTER, DRIVER DOOR MODULE

**Kia Coverage****12 new Adjustment type special tests including:**

- **Engine/PCM** - Auto Detected Configuration Reset, PCM Auto Detection Reset, Reset Adaptive Values, TEC learn, VCM Learning, Write VIN

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

- **Engine/PCM** – A/C Compressor tests, Cam Phaser tests, EVAP tests, Change Oil Lamp, CKP CMP Signal Test, Cooling Fan tests, CVVT Test, Cylinder Power Balance, ETC Motor, Fuel Pressure tests, Fuel Pump tests, Injector tests, Ignition Coil tests, O2 Sensor Heater tests, Oil Control Valve tests, Variable Intake Manifold tests
- **ABS/Brakes** - Inlet and Outlet Valve tests
- **Others** - tests for ASSIST DOOR MODULE, DRIVER DOOR MODULE

**Mazda Coverage**

- Expanded coverage for 4X4 Control, Audio Control, Front Controls and Parking Aid systems

- Added coverage for 28 new systems
- Added coverage for 34 new vehicle-ecu combinations

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

- **Engine/PCM** - Misfire Monitor Neutral Profile Correction
- **Brakes/ABS** - Brake Fluid Replacement - Without Power Bleeder, Brake Pad Replacement, Brake System Actuation Control Unit Check, Brake System Air Bleed Check, Service Bleeding Including Brake Fluid Replacement

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

- **Engine/PCM** - DC to DC Converter Enable, Heater Pump Control Relay, Motor Electronics Coolant Pump

**Updated Diagnostic Information for the following:**

- TPMS Quick Reference information

## ***Mitsubishi Coverage***

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

- **TPMS** - Tire Pressure Sensor Registration
- **Instrument Cluster** - Maintenance Reset

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

- **Engine/PCM** - Oxygen Sensor 1/1 Heater Duty Cycle, Oxygen Sensor 1/2 Heater Duty Cycle

**Special test fixes/improvements:**

- 2012 Outlander TPMS - fixed TPMS Registration test not available

**Updated Diagnostic Information for the following:**

- Data Item Operating Ranges for 2015MY

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

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

- **TPMS** - Tire Pressure Sensor Registration
- **Body** - Automatic Lock Setting, Door Lock/Unlock Setting, Room Lamp Timer Setting
- **Others** - Room Lamp Timer Setting

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

- **AWD/Transfer Case** – Left Solenoid, Right Solenoid
- **ABS/Brakes** - DAB Indicator Light, ECB Solenoid tests, Pre Crash Brake OFF Light, TPMS Warning Light
- **Suspension** – Active Trace Control Display tests, Brake Actuator tests, Master Warning Active
- **Body Control** - Lamp and Buzzer/Warning tests, Door Lock tests, Power Window Down, Trunk Open Test

**Special test fixes/improvements:**

- 2014 Versa Note TPMS – fixed TPMS Registration not available
- 2008 Sentra TPMS - fixed TPMS Relearn not working properly

**Updated Diagnostic Information for the following:**

- TPMS Quick Reference information

## ***Subaru Coverage***

- New coverage for 2014-2016MY vehicles and systems
- Added coverage for 74 new systems
- Added coverage for 232 new vehicle-ecu combinations

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

- **TPMS** - Tire Pressure Sensor Registration

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

- **Engine/PCM** - Activate the Starter Cut Relay, Fuel Pump Duty Control
- **Transmission** - Activate the Starter Cut Relay, Fuel Pump Duty Control
- **ABS** - ABS Solenoid, Sport Mode Lamp
- **Instrument Cluster/Meter** - VSC Indicator Lamp
- **Climate (HVAC)** - Inside and Outside Change
- **Body Control** - Lamp tests

## ***Toyota/Lexus Coverage***

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

- **Engine/PCM** – EGR tests, Fuel Pump tests, Fuel Pressure tests, ISC Step Position
- **ABS** – Lamp tests, ABS Solenoid, ECB Solenoid tests, Signal Check
- **Instrument Cluster** - Lamp tests, Buzzer tests
- **Climate (HVAC)** - Air Purifier Mode, Assist Fan, Batt Cool Down Servo Targ Pls, Inside and Outside Change
- **Suspension** - RR Solenoid 1, Signal Check, Stabilizer Check
- **Body Control** - Lamp and Buzzer/Warning tests, Mirror tests
- **Doors** - Door Lock/Unlock tests, Window tests, Mirror tests
- **Others** – SMART KEY tests

**Updated Diagnostic Information for the following:**

- TPMS Quick Reference information

## ***New Coverage – USA European***



## **Alfa Romeo Coverage**

- New coverage for 2016MY vehicles and systems
- Added coverage for 11 new systems
- Added coverage for 11 new vehicle-ecu combinations

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

- **Transmission** - Electric Pump Drive Unit Command
- **Instrument Cluster** - Seat Belt Warning Chime
- **Body Control** - Lateral Anti Tilt Sensor, Longitudinal Anti Tilt Sensor, Modify Volumetric Sensors Sensitivity, LIN Check tests

## **Audi Coverage**

- New coverage for 2014-2015MY vehicles and systems
- Expanded coverage for UDS protocol systems 2008-2013
- Added coverage for 1,319 new systems
- Added coverage for 5,839 new vehicle-ecu combinations

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

- **Engine/PCM** - Boost Pressure Actuator Basic Adjustment, Camshaft Timing Control tests, CAT Conversion Rate tests, Compressor Control Flap Basic Setting, Drain Fuel Tank, Engine Temperature Management Basic Setting, Evaporative Emission Control Regenerat. Valve, Fuel Pressure Reduction, Fuel Pump Adaptation, Generate Readiness Code, Intake Camshaft Adjustment Bank 1, Lambda Sensor Ageing tests, Prime Fuel Pump, Neutral Position Sensor Adapting, Reset Timing Chain Adaption Values, Throttle Valve Basic Setting
- **ABS/Brakes** - Brake Pad Replacement Step 1, Brake Pad Replacement Step 2, Brake Temperature Monitoring Information, EMF Opening Mode Adjustment, Longitudinal Acceleration Sensor Adjustment, Sensor Unit Zero Position Compensation, Steering Angle Sensor
- **Safety/Airbag** - Reset Seat Occupied Recognition
- **AWD/Transfer Case** – Reset Adaption Value , Vacuum Pump Calibration
- **Climate Control/HVAC** - Air Quality Sensor Adjustment, Auxiliary Heating Configuration Without CAN, Auxiliary Heating Continued Heating Time Setting, Basic Setting, Compressor Run-In, Compressor Run-In Blower Voltage Adaption, Cooling Output Test, Encoding Of Retrofitted Components, Front And Rear Control Motor Basic Settings, Front Left Seat Heating Memory Function Setting, Front Right Seat Heating Memory Function Setting, Reset All Counters, Write Configuration
- **Steering** - Reset Adaptation Parameters, Steering Angle Sensor, Transfer Configuration, Write Configuration
- **Others** – Battery Replacement, ADAPTIVE CRUISE CONTROL ACC Sensor Adjustment, Transfer Configuration, Variant Encoding; MEMORY SEAT Actuate Seat Recall, Clear All Learned Seat Parameters, PARK ASSIST Tone/Acoustic tests, Parking Aid Deactivation Speed, Write Configuration

### **2,241 new Actuation type special tests including:**

- **Engine/PCM** - Actuator For Camshaft Adjustment, Air Condition Compressor Activation, All Radiator Cooling Fans, Automated boost control, Camshaft Pos Actuator tests, Charge Motion Valve tests, Compression Test, Coolant tests, Diesel Particulate Filter Indicator Lamp, ECM/PCM Power Relay, EGR tests, EVAP tests, Fan Control tests, Fuel Injector tests, Fuel Pressure Regulator tests, Fuel Pump

Relay, Gearbox Coolant Valve, Glow Plug Control Module 1, Idle Speed Adjustment, Injector tests, Intake Manifold Runner Flap, Oil Pressure Valve, PTC Heating Element tests, Reductant Pump, SCR Heating tests, Secondary Air Injection tests, Test Of Camshaft Synchronization, Throttle Valve 1, Turbo Charger Control Valve, Wastegate Solenoid

- **Hybrid** - Charging Connector A and B tests, Coolant Pump Control HV Battery, Cooling Valve 1 High Voltage Battery, Battery Fan Control tests
- **Transmission** – Gear oil cooling valve tests, Open converter clutch, Shift Lock, Lock Solenoids for selector lever, Parking Lock Solenoid Test, Shift Lock Actuator Transversal Test, Shift Lock Solenoid Test
- **ABS/Brakes** – Lamp tests, ABS Return Pump Actuation, Actuatoric Test, Attaching brake pads, Brake Vacuum Pump, Hydraulic Pump, Inlet and Outlet Valve tests, Open Brakes tests, Parking Brake Botors, Wheel Speed Sensor Supply, PARKING BRAKE tests
- **Safety/Airbag** - Actuator Crash Severity tests, Actuator Test Crash Intensity tests, Precrash Pretensioner tests
- **AWD/Transfer Case** – Front Axle Torque Request Test, Haldex Transmission Activation
- **Suspension** - Accumulator Pressure Test, Air Spring Additional Volume Valve tests, Compressor Relay, Damper tests, Lower Vehicle tests, Pressure Build-Up, Pressure Reduction, Shock Absorber Valve Current tests, Test Accumulator And Compressor
- **Instrument Cluster** - Lamp tests, Buzzer tests, Segment Test
- **Climate (HVAC)** - Air Condition Compressor Activation, Air Conditioner Performance Test, Flap Door tests, Blower, Dash Panel Vent Positioning Motor Test, Electrical Air Conditioner Compressor Test, EMC Mode Flap Control Motors Test, Fresh Air Blower tests, High Voltage Heater Test, Footwell Flap Motor tests, Seat Heater tests, Positioning Motor tests, Segment test
- **Body** – Lamp/Indicator test, Headlamp/Lighting tests, Window tests, Mirror tests, Door Lock tests, Seat tests, Blower tests, Electrically Adjustable Steering Column Test
- **Seats** - Compressor For Multicontour Seat, Pump and Valve tests, Backrest Inclination tests, Belt Height Adjustment tests, Lumbar Support tests, Position Movement tests, Seat Height tests, System function test, Upper Backrest Adjustment tests
- **Doors** - Door Lock/Unlock tests, Window tests, Mirror tests, Automatic Day Night Exterior Mirror Test, Side Window Blind Test
- **Others** – tests for DRIVER ASSISTANCE, BRAKE BOOSTER, HEADLIGHT REGULATION, ACC/START AUTH (05), AMPLIFIER MODULE, RADIO (56), CAN GATEWAY (19), ELECTRONIC ROOF CONTROL, STEERING WHEEL, TAILGATE MODULE, LED MODULE LEFT, LED MODULE RIGHT, AUXILIARY PARKING HEATER, CENTRAL MODULE COMFORT SYSTEM, ADAPTIVE CRUISE CONTROL, MULTICONTOUR SEAT, HEADLIGHT REGULATION, ACC/START AUTH (05), AMPLIFIER MODULE, RADIO (56), CAN GATEWAY (19), ELECTRONIC ROOF CONTROL, SPECIAL FUNCTION (3D), TRAILER (69)

#### Special test fixes/improvements:

- 2013 A5 PARK BRAKE - fixed Caliper Retract test not available

#### Updated Diagnostic Information for the following:

- TPMS Quick Reference information

## **BMW/Mini Coverage**

- New coverage for 2015MY vehicles and systems
- New coverage for i3 and ActiveHybrid models
- Pre-2015MY additions for many Body and Chassis Systems (Data and Special Tests)
- Expanded system coverage for 2001-2006 Mini Cooper
- High-value adjustment tests that include VANOS Adaptation, Steering Angle Sensor Adjustment, Oil Maintenance Reset, Sunroof Initialization and Rain/Light Sensor Initialization
- Added coverage for 1,550 new systems
- Added coverage for 7,788 new vehicle-ecu combinations

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

- **Engine/PCM** - VANOS Adaptation, Vehicle Periodical Revision
- **ABS/Brakes** - Brake Line Connection, Front Brake Zeroing, Inspection/Service Interval Reset, Level Brake Fluid, Longitudinal Acceleration Sensor Adjustment, Perform Control-module Reset, Rear Brake Zeroing, PARKING BRAKE Installation Mode Activate and Deactivate, Installation Mode
- **Climate (HVAC)** - Calibrate Stepper Motors
- **Steering** - Steering Angle Sensor Adjustment
- **Body Control** - Rain Light Sensor Initialization
- **Others** - ICM Sensor Adjustment, Window Regulator Initialization tests, Slide Tilt Sunroof Initialization, TAILGATE LIFT Activate/deactivate Transportation Mode

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

- **Engine/PCM** - Compressor Bypass, EGR Bypass Flap, Fuel Injector Off Test, Glow Plug Relay, Heating-tank (SCR), Injection Valve Control tests, Motor Fan, OBD Readiness Code, Throttle Control, VVT Tests, Waste Gate Solenoid
- **ABS/Brakes** - DSC Pulse Valves tests, Pump Control, Speed Sensor Connection, Temporary Activation and Temporary Deactivation, Wheel Speed Sensor Functional Test
- **Suspension** - Damper Satellites
- **Instrument Cluster** – Lamp/Indicator tests, Gauge tests
- **Climate (HVAC)** – Lamp and Button tests, AC Control Panel Button tests, Activate Compressor Clutch, Control the blower, Illumination tests, Seat Heater Button tests, Flap Motor Opening tests, REAR AIR CONDITIONING tests
- **Body** – Wiper tests
- **Seats** - Read Configuration, Seat Fore-And-Aft Adjustment

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

- 2011 Z4 PARKING BRAKE – fixed Park Brake Retract tests missing
- 2004 745Li POWER MODULE - fixed Battery Exchange Register test not working properly

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

- 2005 Mini Cooper INSTRUMENT CLUSTER - fixed communication issues
- 2003 Mini Cooper IMMOBILIZER and INSTRUMENT CLUSTER - fixed communication issues

## ***Fiat Coverage***

- New coverage for 2016MY vehicles and systems

- Added coverage for 38 new systems
- Added coverage for 50 new vehicle-ecu combinations

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

- **Engine/PCM** - Clear Misfire TLC, Reset Adaptive After Oil Change, Reset Adaptive After Memory, Reset Adaptive After Block Change, Reset Air-Fuel Adaptives, Reset Camshaft Adaptives, Reset VVA Freeze Incorrect
- **Transmission/Electronic Shifter** - Clear Self-Learning Data
- **ABS** - Longitudinal And Lateral Sensor Calibration, Pressure Sensor Calibration
- **Tire Pressure Monitor/WCM** - Tire Pressure Sensor Registration
- **Climate (HVAC)** - HVAC FGA Self Learning Motors Test
- **Instrument Cluster** - Oil Service Reset, Reset Service Information, Seat Belts Alarm Enable, Seat Belts Alarm Exclusion, TPM Pressure Update to Placard Value
- **Steering** - Steering Angle Calibration
- **Others** - Heated Seat NTC Validation

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

- **Engine/PCM** - Engine After Run Coolant Pump, Fuel Injector tests, Fuel Pump tests, Ignition Coil tests, O2 Heater Duty-Cycle tests, Overdrive Switch Test, Purge Valve Duty-Cycle, Surge Valve Solenoid, VVA Cylinder tests
- **Transmission/Electronic Shifter** - Command Shift Lock, Line Pressure Output Current Value, Linear Solenoid tests, Pump Management, Shift Solenoid tests, ShiftLock, Torque Converter Clutch tests
- **ABS** – Lamp and Indicator tests, Inlet and Outlet Valve tests, Pilot Valve Activation tests, Priming Valve Activation tests, Recirculation Pump, Wheel Speed Sensor Functional Test
- **AWD/Transfer Case** - Rollbench Mode
- **Instrument Cluster** – Lamp and Indicator tests, Seat Belt Warning Chime
- **Climate (HVAC)** - Front Blower Motor, Left Air Distribution Motor, Left Air Mix Servo Motor Target Position, Recirculation Motor Position, Right Air Mixing Motor
- **Body Control** - Lamp and Buzzer/Warning tests, Door Lock tests, Window tests, Wiper/Washer tests, Headlight tests, Turn Signal tests, Automated Driver Door Open, Driver heated seat relay command
- **Others** - tests for AUDIO, COMFORT STEERING WHEEL, RADIO FREQUENCY HUB, TELEMATICS GATEWAY

## ***Jaguar Coverage***

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

- **ABS/Brakes** - ABS Valve Relay Output State, Inlet Valve tests, Outlet Valve tests

## ***Land Rover Coverage***

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

- **ABS/Brakes** - ABS Valve Relay Output State, Inlet Valve tests, Outlet Valve tests
- **Body Control** - Passenger Door(s) Unlock

#### Updated Diagnostic Information for the following:

- TPMS Quick Reference information

## **Mercedes Benz**

- New coverage for 2015MY vehicles and systems
- Added coverage for 535 new systems
- Added coverage for 4,642 new vehicle-ecu combinations

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

- **Engine/PCM** - Actuation Of Mixture Adaptation, ECU Reset, Adjust Idle Speed Gear, Adjust Idle Speed P/N, Ignition Timing Correction, Mixture Adaptation Cancelling
- **Transmission** - ECU Reset, Selector Sensor Learning
- **ABS/Brakes** - ECU Reset, Reset Steering Angle Calibration
- **Safety/Airbag** - ECU Reset
- **Steering** - Coding Reset
- **Suspension** - ECU Reset
- **Others** – INTELL SERVO MOD Perform Calibration, DOOR CONTROL Adjust Mirror tests, ECU Reset

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

- **Engine/PCM** - Charge Air Cooler - Circulation Pump, Control Heating O2 Sensor Right, Fuel Pump, Heating System Shutoff, Secondary Air Pump, Secondary Air Valve
- **ABS/Brakes** – Activate PRW, BAS Brake Assist Test, Solenoid Valve tests, Power Steering Solenoid Valve Test, Pump Actuator Test, ELECTRONIC PARK BRAKE Mounting test
- **Instrument Cluster** - Lamp tests, Buzzer tests, Segment Test
- **Climate (HVAC)** - Blower Motor
- **Suspension** - Central Accumulator Valve, Compressor Relay, Damping Valve tests, Raise / Lower Suspension tests, Single Amplifiers Drain Valve
- **Body Control** - Lamp and Buzzer/Warning tests
- **Seats** - Check Seat Ventilation, Denormalize Routine
- **Doors** - Central Locking, Door Lock/Unlock tests, Window tests, Mirror tests
- **Others** – tests for AUDIO, CENTRAL DISPLAY, PARKTRONIC, ELEC SEAT ADJ FR, BATTERY SENSOR, SYSTEM DIAGNOSIS

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

- 2007 ML350 DOOR/WINDOW - fixed Window Open/Close tests do not work properly
- 2007 ML350 DOOR/WINDOW - fixed No test available to perform de-normalization

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

- 2002 C320 AIRBAG - fixed communication issues

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

- TPMS Quick Reference information

## Smart

### 1 new Adjustment type special tests including:

- **Safety/Airbag** - ECU Reset

## Volkswagen Coverage

- New coverage for 2014-2015MY vehicles and systems
- Expanded coverage for UDS protocol systems 2008-2013
- Added coverage for 1,024 new systems
- Added coverage for 1,410 new vehicle-ecu combinations

### 104 new Adjustment type special tests including:

- **Engine/PCM** - Camshaft Timing Control tests, CAT Conversion Rate tests, Drain Fuel Tank, Engine Temperature Management Basic Setting, Evaporative Emission Control Regenerat. Valve, Fuel Pressure Reduction, Fuel Pump Adaptation, Generate Readiness Code, Lambda Sensor Ageing tests, Prime Fuel Pump, Neutral Position Sensor Adapting, Reset Timing Chain Adaption Values, Throttle Valve Basic Setting
- **ABS/Brakes** - Brake Pad Replacement Step 1, Brake Pad Replacement Step 2, Longitudinal Acceleration Sensor Adjustment, Steering Angle Sensor
- **Safety/Airbag** - Reset Seat Occupied Recognition
- **AWD/Transfer Case** – Reset Adaption Value, Vacuum Pump Calibration
- **Climate Control/HVAC** - Air Quality Sensor Adjustment, Auxiliary Heating Configuration Without CAN, Auxiliary Heating Continued Heating Time Setting, Basic Setting, Compressor Run-In, Cooling Output Test, Encoding Of Retrofitted Components, Front And Rear Control Motor Basic Settings, Front Left Seat Heating Memory Function Setting, Front Right Seat Heating Memory Function Setting, Reset All Counters, Write Configuration
- **Steering** - Reset Adaptation Parameters, Steering Angle Sensor, Transfer Configuration, Write Configuration
- **Others** – Battery Replacement, ADAPTIVE CRUISE CONTROL ACC Sensor Adjustment, Transfer Configuration, Variant Encoding; MEMORY SEAT Actuate Seat Recall, Clear All Learned Seat Parameters, PARK ASSIST Tone/Acoustic tests, Parking Aid Deactivation Speed, Write Configuration

### 863 new Actuation type special tests including:

- **Engine/PCM** - Automated boost control, Air Condition Compressor Activation, Boost Pressure Actuator, Camshaft Pos Actuator tests, Charge Motion Valve tests, Compression Test, Coolant tests, Diesel Particulate Filter Indicator Lamp, ECM/PCM Power Relay, EGR tests, EVAP tests, Fan Control tests, Fuel Injector tests, Fuel Pressure Regulator tests, Fuel Pump Relay, Gearbox Coolant Valve, Glow Plug Control Module 1, Injector tests, Intake Manifold Runner Flap, Metering Unit Actuator, Oil Pressure Valve, Overdrive Switch Test, Oxygen Sensor Heater Duty Cycle tests, Pressure Regulator Valve, PTC Heating Element tests, Reductant Pump, SCR Heating tests, Secondary Air Injection tests, Test Of Camshaft Synchronization, Throttle Valve Actuator, Turbo Charger Control Valve, Variable Swirl Actuator, Wastegate Solenoid

- **Hybrid** - Coolant Pump Control HV Battery, Cooling Valve 1 High Voltage Battery, Battery Fan Control tests
- **Transmission** – Gear oil cooling valve, Open converter clutch, Shift Lock, Lock Solenoids for selector lever, Parking Lock Solenoid Test, Shift Lock Actuator Transversal Test, Shift Lock Solenoid Test
- **ABS/Brakes** – Lamp tests, Hydraulic Pump, ABS Inlet and Outlet Valve tests, Brake Booster Accumulator Activation tests, PARKING BRAKE tests
- **Transfer Case** - Haldex Transmission Activation
- **Suspension** - Damper tests, Pressure Reduction
- **Instrument Cluster** - Lamp/Indicator tests, Powermeter Display Test, Segment Test
- **Climate (HVAC)** - Air Condition Compressor Activation, Air Conditioner Performance Test, Air Distribution Front Control Motor, Air Recirculation Flap Positioning Motor, Blower, Cutoff Valve Refrigerant tests, Electrical Air Conditioner Compressor Test, EMC Mode Flap Control Motors Test, High Voltage Heater Test, Seat Heater tests, Positioning Motor tests, Segment test
- **Body** – Lamp/Indicator test, Headlamp/Lighting tests, Window tests, Mirror tests, Door Lock tests, Seat tests, Blower tests
- **Doors** - Door Lock/Unlock tests, Window tests, Mirror tests
- **Seats** - Backrest Inclination tests, Lumbar Support tests, Seat Height tests
- **Others** – tests for DRIVER ASSISTANCE, CAMERA SYSTEM, BRAKE BOOSTER, ADAPTIVE CRUISE CONTROL , HEADLIGHT REGULATION, ACC/START AUTH (05), AMPLIFIER MODULE, RADIO (56), WHEEL, TRAILER (69), ADAPTIVE CRUISE CONTROL, HEADLIGHT REGULATION, ACC/START AUTH (05), AMPLIFIER MODULE, RADIO (56), CAN GATEWAY (19), ELECTRONIC ROOF CONTROL

**Other fixes/improvements:**

- 2006 Passat IMMOBILIZER - fixed controller missing
- 2004 Jetta RADIO - fixed issues reading DTCs

**Updated Diagnostic Information for the following:**

TPMS Quick Reference information

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