

Bosch ADS 625 Software Update – April 2020

Ver 4.3

<https://www.boschdiagnostics.com/pro/ads/>

Version 4.3 contains model year 2020 coverage for Toyota, Lexus, Mazda and Subaru vehicles including DTCs, Live Data and Special Tests, and more special functions for 2019 GM and Toyota.

Over 1600 new tests are included in this 4.3 update including software enhancements and bug fixes.

Software and coverage feature details provided throughout these release notes.



Coverage Highlights (Coverage details start on Page 2)

- **Toyota/Lexus** – New coverage for all 2020MY and 2019MY vehicles and systems
 - 1776 new vehicle & ECU combinations with 121 brand new systems
 - Pre/Post Scan DTC support, Live Data, and Special Tests, more in subsequent releases
 - More special tests added to complete 2019 Toyota/Lexus vehicle coverage
- **Mazda** - New coverage for all 2020MY vehicles and systems, and 2019MY Mazda3
 - Includes 202 new vehicle & ECU combinations with 104 brand new systems
 - Pre/Post Scan DTC support, Live Data, and Special Tests, more in subsequent releases
- **Subaru** - New coverage for all 2020MY vehicles and systems
 - Includes 252 new vehicle & ECU combinations with 61 brand new systems
 - Pre/Post Scan DTC support, Live Data, and Special Tests, more in subsequent releases
- **GM** - New coverage for Adjustment and Actuation tests for 2019MY vehicles and systems
 - More special tests added to complete 2019 GM vehicle coverage
 - Critical functions for the entire GM line are included and special cases like Diesel, Turbo, and Hybrid vehicle specific tests and resets, Night Vision Camera and Parking Sensor calibrations, Transmission Quick Adaptation learns, and much more. For the complete list, please see the detail section below.
- **Subaru ADAS** - New coverage for Rain Sensor Initial Setting for 2019-2020 Ascent

New Software Feature

- **Version 4.3** software now supports compatibility with the new Bosch TPA 300 TPMS Tool. When paired with Bosch ADS 325/625, users can relearn TPMS sensors to vehicle ECU in less than two minutes. The TPA300 supports all known OE and aftermarket programmable sensors for all light vehicles.

New Coverage Details – USA Domestic

New Chrysler/Jeep Coverage

- Added coverage for 51 new vehicle-ecu combinations

9 new Adjustment type special tests including:

- **Body Control** - Auto Door Unlock, Disable Auto Relock, Enable/Disable DRL, Exit Shipping Mode
- **ADAS/Driver Assist** - ACC Aim Mode - Auto Alignment

284 new Actuation type special tests including:

- **Body Control** - Lamp and Buzzer/Warning tests, Door Lock tests, Window tests, Wiper/Washer tests, Headlight tests, Turn Signal tests, Diesel Fuel Heater Relay, Starter Solenoid (High)
- **Others** - tests for DOOR MODULE controllers

New Ford Coverage

- Added coverage for 39 new vehicle-ecu combinations

3 new Adjustment type special tests including:

- **Body Control** - Battery Monitor System Reset, BCM Crash Status Reset, Tire Pressure Sensor Registration

25 new Actuation type special tests including:

- **Body Control** - Lamp and Buzzer/Warning tests, Door Lock tests, On Demand Test, Wiper tests, Headlight tests, Battery Charging Voltage Desired, Fuel Pump Relay, Rear Defrost Relay Status

New GM Coverage

- Added coverage for 182 new vehicle-ecu combinations
- New coverage for important Adjustment and Actuation tests for 2019MY vehicles and systems

165 new Adjustment type special tests including:

- **Engine/PCM** - Ambient Air Temperature Calculation Reset, Average Fuel Age Reset, BARO Sensor Reset, Brake Pedal Position Sensor Learn, Catalyst 1 Reset, Clutch Pedal Position Learn, Crankshaft Pos. Variation Learn, DPF Pressure Sensor Reset, DPF Service Regeneration, DPF/Catalyst 2 Reset, , Engine Oil Life 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 Injection Small Quantity Learning Odometer Reset, Fuel Pump Driver Control Module Configuration , Fuel Pump Trim Reset, Fuel Rail Pressure Relief Valve Learned Values Reset, Fuel Trim Reset, Gear Position Sensor Learn, Gear Selector -N- Position Learn, HO2S Heater Learn, HO2S Learned Values Reset, Idle Learn Reset, Idle Speed Adjustment, Intake System Learned Values Reset, Learned Values Reset, NOx Absorber Catalyst Reset, NOx Catalyst Reset, NOx Sensor Reset tests, O2 Heater Resistance Reset, Oil Life Reset, Particulate Filter Service Regeneration, Particulate Matter Sensor Service Regeneration, Prime Fuel Pump, PTO Options, Reductant Fluid Tank Level Reset, Reductant System Reset, RVS Disable History Reset, Stop/Start Capacitor State

- Of Health Reset, Throttle Relearn, Turbocharger Learned Values Reset, Turbocharger Wastegate Learn
- **Transmission** - Transmission Adaptive Pressure Reset tests, Transmission Service Fast Learn
- **Hybrid** - Brake Pedal Position Sensor Learn, Clear Secured High Voltage DTCs, DC Charging Disabled Reset, EV Range Reset, Fuel Economy Reset, Hybrid/EV Battery Contactor Open Reasons Reset, Hybrid/EV Battery Pack Capacity Learn, Hybrid/EV Battery Pack Charging Adaptive Learn Reset, Hybrid/EV Battery Pack Data Reset, Transmission Adaptive Torque Reset
- **AWD/Transfer Case** - AWD Disabled-by-Malfunction Counter Reset, Range Actuator Learn
- **Brakes/ABS** - Automated Brake Bleed, Adaptive Pressure Control Learn, Brake Pedal Travel Sensor Learn, Brake Pressure Sensor Calibration, Brake System Plunger Motor Position Sensor Learn, Brake System Plunger Pressure Rise Starting Point Learn, Front Axle Brake Pad Life Monitoring Reset, Park Brake Calibration, Rear Axle Brake Pad Life Monitoring Reset, Steering Wheel Angle Sensor Learn, Vehicle Dynamic Sensor Offset Calibration, Yaw Rate Sensor Learn
- **Tire Pressure Monitor/RCDLR** - Tire Pressure Reset, Tire Pressure Sensor Registration
- **Safety/Airbag** – AIRBAG Configure New Module, Reset High Voltage Disable Request After Crash Event Detected, Zero Point Calibration
- **Climate/HVAC** - HVAC Actuators Learn, HVAC Afterblow Configuration
- **Instrument Cluster** - CAN Bus Configuration Learn, Driver Information Center Options, Instrument Cluster Initialization, Timing Belt Life Reset
- **Steering** - Learned Values Reset, Power Steering Pressure Sensor Learn, Power Steering Softstops Reset, Steering Gear Replacement Procedure, Steering Wheel Angle Sensor Centering, Steering Wheel Angle Sensor Reset
- **ADAS/Driver Assist** - PARKING ASSIST Sensor Learn, NIGHT VISION CAMERA Reset Functions
- **Body Control** - Brake Pedal Position Sensor Learn, Clear Window Learned Values tests, Reset Teen Driver Key PIN, Tire Type/Pressure Selection
- **Others** - SEAT Adjustable Pedal Calibration, HEADLAMP Automatic Headlamp Leveling Sensor Learn

822 new Actuation type special tests including:

- **Engine/PCM** – A/C Relay, Active Grill Shutter tests, Air Cleaner Monitor Setup, AIR System, , Autostart/Autostop, Auxiliary Coolant Pump, Camshaft Actuator tests, Catalyst Test, Charge Air Cooler Coolant Pump, Compression Test, Cooling Fan Motor, Cylinder Deactivation tests, Cylinder Power Balance, Depressurize Fuel System, DPF Regeneration Enable, EGR Cooler tests, EGR Valve, Engine Controls Ignition Relay, Engine Coolant Pump tests, Engine Speed Control, EVAP tests, Exh. Aftertreatment, Fuel Injector Balance, Fan tests, Fuel Pump tests, Fuel Pressure tests, Fuel System High Pressure Test, Fuel Tank Pressure Test, Fuel Transfer Pump, Glow Plug Self-Test, High Pressure Fuel System Test, HO2S Heater tests, IACV Motor Control, Oxygen Sensor tests, Reductant Heater tests, Reductant Fluid Quality Test, Reductant Injection Quantity Test, Reductant Injector, Reductant Pump, Reductant System Leak Test, Secondary Air Injection tests, Supercharger Bypass tests, TC Vane Position Sensor, TC Wastegate Solenoid, Throttle Position, Throttle Sweep, Transmission Accumulator tests, Turbocharger Bypass tests, Turbocharger Vane Position, Turbo Wastegate tests, Wastegate Solenoid Duty Cycle
 - **Hybrid** - Autostart/Autostop, Auxiliary Transmission Fluid Pump Speed, Battery Charging System tests, Cooling Fan Motor, Drive Motor Coolant Pump Relay, EAC Compressor Speed, Engine Coolant Bypass Valve, Hybrid Electronics Coolant Pump, Transmission Accumulator
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- Solenoid Valve, Hybrid/EV Battery Pack Cooling Fan, Hybrid/EV Battery Pack tests, Regenerative Braking
- **Transmission** - Auxiliary Transmission Pump tests, High Side Driver tests, Line Pressure tests, Pressure Control Solenoid tests, Shift Solenoid tests, TCC Solenoid tests, Transmission Accumulator Solenoid Valve, Transmission Gear
- **ABS/Parking Brake** - ABS Pump Motor, Solenoid tests, Brake Booster Electric Vacuum Pump, Brake Hydraulics Test, Brake System Hydraulics Corner Test, Park Brake Actuator tests, Rear Brake Caliper Piston Extend and Retract tests, Trailer Brake tests
- **Safety/Airbag** – Lamp tests, Seat Belt Retractor Motor
- **Transfer Case** – Lamp/Indicator tests, ATC Range, Engage Front Axle, Range Actuator, Motor Driver tests, Rear Differential Clutch Solenoid Valve, Transfer Case Clutch, Transfer Case Range
- **Suspension** - All Shock Absorber Actuators, Depressurize System, Pressurize System, Shock Absorber tests, Suspension Position Sensor Trim Height tests, Vehicle Level Control Compressor Relay, Vehicle Level Control Exhaust Solenoid Valve
- **Instrument Cluster** - Display Test, Dimming tests, Gauge Sweep tests, Lamp tests
- **Climate/HVAC** - A/C Compressor, Auxiliary Coolant Pump, Blower Motor tests, Mode Door tests, Rear Defrost
- **Body Control** - Lamp and Buzzer/Warning tests, Door Lock tests, Headlamp tests, Turn Signal tests, Window Motor tests, Wiper/Washer tests, Brake Transmission Shift Interlock Solenoid Actuator, Fuel Door Unlatch, Run Crank Relay
- **Seat** – Lumbar tests, Horizontal Movement tests, Vertical Movement tests
- **Other** – tests for HEADLAMP CONTROL MODULE, RADIO, FOLDING TOP MODULE, OBJECT DETECTION MODULE, PARKING ASSIST CONTROL, VIDEO PROCESSING CONTROL, TRAILER LIGHTING CONTROL

New Coverage Details – USA Asian

New Honda Acura Coverage

- Added coverage for 84 new vehicle-ecu combinations

2 new Adjustment type special tests including:

- **Instrument Panel** - ATF Reset, Engine Oil Life Reset

New Mazda Coverage

- New coverage for all 2020MY vehicles and systems, and 2019MY Mazda3
- Added coverage for 104 new systems
- Added coverage for 202 new vehicle-ecu combinations

98 new Actuation type special tests including:

- **Engine/PCM** - Active Grill Air Shutter Position, Desired RPM, Desired SEGRP Valve Position, Engine Oil Press Sol. Valve tests, EVAP tests, Fan tests, Fuel Injector tests, Fuel Pump, Intake Manifold Tuning Valve, Variable Fan Duty Cycle, Wastage Valve Position
- **Transmission** - Electric Oil Pump tests, Pressure Control Solenoid tests, Shift Solenoid tests, Torque Converter Clutch Solenoid Current
- **ABS/Brakes** – Inlet & Outlet Solenoid tests, Pump Motor Supply

- **Instrument Cluster** - Lamp tests, Speedometer, Tachometer
- **Body Control** - Lamp and Buzzer/Warning tests, Door Lock tests, Wiper/Washer tests
- **Others** - tests for BLIND SPOT MONITORING

New Mitsubishi Coverage

- Added coverage for 25 new vehicle-ecu combinations

New Nissan/Infiniti Coverage

- Added coverage for 60 new vehicle-ecu combinations

11 new Actuation type special tests including:

- **Engine/PCM** – Engine Coolant Temp, Exhaust Valve Assign Angle, Intake Valve Assign Angle, Fuel Injection, Target Idle Speed
- **Climate (HVAC)** – All Segments
- **Suspension** - Command Steering Angle

New Subaru Coverage

- New coverage for all 2020MY vehicles and systems
- Added coverage for 61 new systems
- Added coverage for 252 new vehicle-ecu combinations

2 new Adjustment type special tests including:

- **ADAS/Driver Assist** - Rain Sensor Initial Setting for 2019-2020 Ascent
- **Others** - COCKPIT CONTROL Memory Initialization

New Toyota/Lexus Coverage

- New coverage for all 2020MY vehicles and systems
- Added coverage for 121 new systems
- Added coverage for 1,776 new vehicle-ecu combinations
- New coverage for important Adjustment and Actuation tests for 2019MY vehicles and systems

7 new Adjustment type special tests including:

- **Engine/PCM** - All Readiness
- **ABS** - ECB Utility
- **Safety/Airbag** - OCCUPANT DETECTION SYSTEM Zero Point Calibration, Zero Point Calibration & Sensitivity Check

6 new Actuation type special tests including:

- **Engine/PCM** - Check Mode, Control The Cylinder Fuel Cut, Injection Volume
 - **Hybrid** - Check Mode
 - **Transmission** - Check Mode
 - **Others** – tests for BRAKE BOOSTER
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New Coverage Details – USA European

New Audi Coverage

36 new Adjustment type special tests including:

- **Engine/PCM** - Bleed Cooling System, Bleed Fuel System
- **ABS/Brakes** - Bleed Brakes
- **Climate Control/HVAC** – Many new Adaptation and Settings tests

8 new Actuation type special tests including:

- **Others** – Lamp tests for FRONT SENSORS DRIVER ASSISTANCE

New Mercedes-Benz Coverage

13 new Adjustment type special tests including:

- **Engine/PCM** - Actuation of Mixture Adaptation, Teach-in Of Drive Authorization System
- **Transmission** - Display And Reset Of Adaptation Data, Performing Adaptation Of Transmission Control
- **Others** – TPMS Wheel Electronics ID Fast Learn Routine, HEADLAMP Reset Hours Xenon Lamp

125 new Actuation type special tests including:

- **Engine/PCM** - Activate Fuel Pump tests, Camshaft Pos Actuator tests, Fuel Injector tests, Rail Pressure Reduction
- **Transmission** - Actuation of Actuator Motor in Position P,R,N and D, Shift Transmission to N
- **ABS/Brakes** – High Pressure And Return Flow Pump, Left Rear Pressure Regulating Valve Pressure Release
- **Climate (HVAC)** – Lamp tests, Refrigerant compressor magnetic clutch
- **Suspension** - Front Axle Damping Valve Unit tests, Front Suspension Strut Control Valve tests, Move To Calibrated Vehicle Level tests
- **Doors** - Door Lock/Unlock tests, Window tests, Mirror tests
- **Others** – tests for SAM MODULE, SEAT ADJUSTMENT

New Volkswagen Coverage

35 new Adjustment type special tests including:

- **Engine/PCM** - Bleed Cooling System, Bleed Fuel System
- **ABS/Brakes** - Bleed Brakes
- **Climate Control/HVAC** – Many new Adaptation and Settings tests

New Volvo Coverage

- Added coverage for 3 new vehicle-ecu combinations

1 new Adjustment type special tests including:

- **Others** – Tire Pressure Sensor Registration
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