

Bosch ADS Software Update – Feb 2021

Ver 4.8

<https://www.boschdiagnostics.com/diagnostic-systems>

Version 4.8 expands Bosch ADS capabilities by adding more model year 2021 coverage as well as special functions for previous model year vehicles.

More ADAS dynamic calibrations across various brands included with your subscription.

650 new special tests, 575 new systems, and over 2800 vehicle to ECU combinations are included in this 4.8 update including software enhancements and bug fixes.

Software and coverage feature details provided throughout these release notes.



ADS X



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Coverage Highlights (Coverage details start on Page 2)

- **2021 Coverage for many vehicles under these Brands**
 - Ford
 - Chrysler
 - Jeep
 - Toyota
 - Mitsubishi
 - Nissan
 - Infiniti
 - Subaru
 - Alfa Romeo
- **ADAS** – 16 New Dynamic type calibration tests

Software Improvements / Bug Fixes

- QuickScan speeds improved for Honda/Acura
- AutoID retry improved
- Users now able to access Ford Secure Gateway vehicles
- 525X use cases resolved for OBDI vehicles

New Coverage Details – USA Domestic

New Chrysler/Jeep Coverage

- Additional coverage for 2021MY vehicles and systems
- Added coverage for 61 new systems
- Added coverage for 130 new vehicle-ecu combinations

36 new Adjustment type special tests including:

- **Engine/PCM** - DPF Replacement, Dual Alternator Enable/Disable, Dual Fuel Tank Enable / Disable, Enable / Disable Vehicle Features, GSE Injector Adaptation, Idle Shutdown Timer Adjustment, Oil Change Monitor Type, Oil Life Restore, PTO Settings, Set Max Cruise Speed, Stationary Desoot (DPF Regen), Turbo Actuator Pre-Align / Self Calibrate, VGT Sector Gear Hysteresis Test
- **ABS** - ABS Bleed Brakes
- **ADAS** - Camera and Radar Calibration for DRIVER ASSISTANCE SYSTEM MODULE, Camera Calibration for FORWARD FACING CAMERA MODULE
- **Instrument Cluster** - Oil Service Reset
- **Suspension** - ASCM Initialization

188 new Actuation type special tests including:

- **Engine/PCM** – A/C Compressor Clutch Relay Control State, Actuator Test For SCR Device Relay, Aftertreatment System Performance Test, Air Condition, Boost Pressure Actuator, Cooler Bypass Valve, Crankcase Ventilation, Cylinder 1 Deactivation Solenoid Control State, Cylinder 4 Deactivation Solenoid Control State, Cylinder 6 Deactivation Solenoid Control State, Cylinder 7 Deactivation Solenoid Control State, DEF (Reductant) Pressure Line Heater Test, DEF (Reductant) Tank Heater Test, DEF Reductant Doser Prime Override Test, DEF Reductant Doser Pump Override Test, DPF Lamp, Dual Speed Oil Pump, EGR Valve Actuator Test, Engine Warm Up, Fan Clutch Test, Fuel Filter Water Level Warning Lamp, Fuel Injector Control State Tests, Fuel Pressure Override, Fuel Pump Relay Control State, Fuel System Run Up Test, Glow Lamp, High Pressure Fuel System Test, Injector Kill Test, Intake Air Throttle Actuator Test, Oil Pressure Lamp, Oxygen Sensor 1/1 Heater Duty-Cycle, Oxygen Sensor 1/2 Heater Duty-Cycle, Pressure Regulator Valve, Radiator Cooling Fan PWM Control State, Radiator Fan 1 Duty Cycle, SCR Relay Actuation Test, Starter Status, Urea (Reductant) Pressure Line Heater Actuation Test, Urea (Reductant) Tank Heater Actuation Test, Urea Dosing Valve Actuation Test, Vacuum Pump Relay, VVA Solenoids Pre-Energization
- **Instrument Cluster** - ABS Lamp, Air Bag Lamp, Brake Indicator, Brake Warning Lamp, Cargo Light Indicator, Electronic Stability Control, Electronic Stability Control Off, Front Fog Lamps, High Beam Indicator, I/P Illumination, Left Turn Signal Indicator, Position Lights, Right Turn Signal Indicator, Seat Belt Lamp
- **Body Control** - All Doors/Central Locks, Center High Mount Stop Lamp, Foot Well/Halo Lamps, Front Wiper (On/Off), Front/Rear Washer, Horn, Ignition Run, Ignition Run/ACC 1, Ignition Run/ACC 2, Ignition Run/Start, IOD Relay On LSD, IRCM Relay Unlock Control, Left Front Park Lamp, Left Front Turn Lamp, Left High Beam, Left Low Beam, Right Reverse Lamp

New Ford Coverage

- Additional coverage for more 2021MY vehicles and systems.
 - Added coverage for 166 new systems
 - Added coverage for 229 new vehicle-ecu combinations
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11 new Adjustment type special tests including:

- **Engine/PCM** - Fuel System Test - High Pressure, Injector Quantity Adjustment tests,
- **Suspension** - Accurate Trim Test, Ride Height Calibration

166 new Actuation type special tests including:

- **Engine/PCM** – Air Conditioning Compressor Command State, All Injectors Disabled, All Wheel Drive Clutch Control Commanded, Command Of Coolant Pump - HVAC/Cabin, Commanded Equivalence Ratio Air To Fuel Mixture Bank 1, Commanded Equivalence Ratio Air To Fuel Mixture Bank 2, Converter Pressure Control, Desired Camshaft Angle For All Banks, Desired Engine Cooling Fan Speed, Desired Fuel Rail Pressure, Desired Generator Voltage, Desired Line Pressure Control, Desired Wastegate Control Vacuum, Engine Coolant Bypass Valve Control Output, Engine Revolutions Per Minute, EVAP Canister Vent Valve, EVAP Leak Detection Pump, EVAP Leak Detection Pump to Vent Solenoid Valve Leak Test, Evap System Switching Valve Control Duty Cycle-Commanded, EVAP Vapor Blocking Valve, Evaporative Emission Canister Purge Valve Duty Cycle, Firm Shift, Fuel Injector tests, Fuel Pump, Fuel Volume Control Valve, Gear Command By Output State Control, Grill Shutter A Position - Commanded, Heater Control For HO2S 11 And HO2S 21, Heater Control For HO2S 12 And HO2S 22, High Speed Engine Cooling Fan Control, Injector Disable tests, Intake Manifold Runner Control, Line Pressure Control Measured In Current, Low Speed Engine Cooling Fan Control, One Touch Start Status, Output State Control Of Torque Converter, Shift Solenoid A, Shift Solenoid Pressure Control tests, Spark Advance - Control State, Starter Motor Control Output Detected, Stepper Motor EGR Position - Control State, Turbocharger Bypass Valve 1, Turbocharger Wastegate Control, Variable Camshaft Timing Exhaust Angle Desired, Variable Camshaft Timing Intake Desired Angle
- **Transmission** - Electric Transmission Fluid Pump Control Duty Cycle - Commanded, Shift Solenoid F Commanded Current, Shift Solenoid Pressure Control A, Shift Solenoid Pressure Control B, Shift Solenoid Pressure Control C, Shift Solenoid Pressure Control D, Shift Solenoid Pressure Control E, Torque Converter Clutch Solenoid Commanded Current
- **Instrument Cluster** - Airbag Warning Indicator, Brake Warning Lamp, Check Engine MIL, Coolant Overtemp, Cruise Control Lamp, Door Ajar Warning Indicator, Front Fog Lamp Indicator, Fuel Gauge Indicator Control, Fuel Gauge Indicator Control On/Off, Gear Display 1, Generator Lamp, High Beam Indicator, Illumination, Illumination PWM Value, LCD Illumination Level, LCD Segment Display, Left Turn Signal Lamp Status, Lights On Warning, Low Fuel Warning Indication, Maintenance Indicator Lamp, Oil Pressure Low Indicator, On Demand Test, Over Drive O/D Off, Park Brake Applied Lamp, Right Turn Signal Lamp Status, Safety Belt Warning Lamp, Speedometer, Tachometer, Tachometer Gauge Indicator Control, Tire Pressure Telltale Status, Traction Control Off Indicator, Warning Chime, Warning Lamp Status 1 - Engine Management System Fault
- **Climate (HVAC)** - A/C Recirculating Servo Position Status, Air Mode Actuator, LCD Segment Display, Left Blend Door Position, On Demand Test
- **Suspension** – Pneumatic Test
- **Others** - Tests for FRONT CONTROL/DISPLAY INTERFACE, AUDIO CONTROL MODULE

New GM Coverage

- New ADAS coverage for 2021MY vehicles and systems

8 new Adjustment type special tests including:

- **Engine/PCM** - Cylinder Injector Flow Identifier Reprogram tests
- **ADAS** - Vehicle Direction Camera Learn for FRONTVIEW CAMERA - WINDSHIELD

New Coverage Details – USA Asian

New Honda/Acura Coverage

- Added coverage for 7 new ADAS systems
- Added coverage for 23 new vehicle-ecu combinations

New Hyundai Coverage

- Added coverage for 25 new systems
- Added coverage for 26 new vehicle-ecu combinations

7 new Adjustment type special tests including:

- **Hybrid** - Compression Pressure Test of Engine Cylinder, Initialize Engine Clutch Inspection Line Learning & Diag Info, Motor/HSG Resolver Calibration, Stabilization of Hydraulic Oil Flow of Engine Clutch
- **ABS/Brakes** - Air Bleeding Mode, Auto Detected Configuration Reset, Longitudinal G Sensor Calibration(HAC/DBC Only)

8 new Actuation type special tests including:

- **Transmission** - 2nd Solenoid Valve [SCSV C], A/T Control Relay, Intelligent Shift Prohibit, Over Drive Solenoid Valve SCSV-D, RED Solenoid Valve, Shift Control Solenoid Valve UD, Torque Convert Clutch Control Solenoid Valve

New Kia Coverage

- Added coverage for 5 new 2021MY ADAS systems
- Added coverage for 5 new vehicle-ecu combinations

5 new Adjustment type special tests including:

- **Hybrid** - Compression Pressure Test of Engine Cylinder, Initialize Engine Clutch Inspection Line Learning & Diag Info, Motor/HSG Resolver Calibration, Stabilization of Hydraulic Oil Flow of Engine Clutch
- **ADAS** - Reference Point Calibration - Dynamic for MULTIFUNCTION CAMERA

New Mazda Coverage

3 new Adjustment type special tests including:

- **ABS/Brakes** - Sensor Initialization
- **Others** – SMART START and REMOTE KEYLESS ENTRY Special Ignition ON

9 new Actuation type special tests including:

- **Engine/PCM** - Desired Intake Camshaft Position, Target Exhaust VVT Control - Retard Amount from Advance Pos.
- **Climate/HVAC** - EATC Operation Check
- **Others** - tests for REMOTE KEYLESS ENTRY

New Mitsubishi Coverage

- New coverage for 2021MY vehicles and systems

- Added coverage for 28 new systems
- Added coverage for 40 new vehicle-ecu combinations

1 new Adjustment type special tests including:

- **Engine/PCM** - Turbo Actuator Pre-Align / Self Calibrate

New Nissan/Infiniti Coverage

- New coverage for 2021MY vehicles and systems
- Added coverage for 61 new systems
- Added coverage for 592 new vehicle-ecu combinations

67 new Adjustment type special tests including:

- **Engine/PCM** - Active Control Engine Mounting A, Active Control Engine Mounting B, Adaptives After Replacing Particulate Filter, AFT Maintenance, After Camshaft Position Sensor Replacement, After Clutch Pedal Switch Replacement, After Crankshaft Position Sensor Replacement, After Electric Throttle Control Actuator Replacement, After Fuel Injector Replacement, After Fuel Rail Pressure Sensor Replacement, After High Pressure Fuel Pump Replacement, After Turbocharger Replacement, After Turbocharger Solenoid Valve Replacement, Air Fuel Ratio Sensor, Battery Discharge Current Integration Clear, CC/SL Program, Clutch Pedal End Stroke, Cumulative Sub-Battery Discharge Current Clear, Dual battery relay voltage drop count data clear, Engine Adaptive, Engine basis parts value 1 and 2 clear, EVAP System Close, Fuel Supply Prevention, G Sensor Calibration, GPF Service Regeneration Reset Routine Execution, High Pressure Fuel Circuit Fault Finding, High Pressure Fuel Pump Total Starts Counter Clear, Injection Pump Adaptive, Interval of Oil Change (OCS) Oxidation, Misfire count (real-time), Number of Starting 1, Number of Starting 2, Number of Starting 3, Number of Starting 4, Number of Starting Cycles, Oil Change Interval (OCS) Dilution, Programming Reinitialization, Regeneration of Gasoline Particulate Filter, Regeneration of Gasoline Particulate Filter, Reset Fuel And Timing Learn Tables, Reset fuel consumption short term log, RTCV Actuator Calibrate, Save Write Data for CPU Replace, Save/Write Data for CPU Replace, Start OBD test: Catalytic converter, Start OBD test: O2 sensors, Starter Operation Count Clear, Starter Operation Counter Clear, Stop/Start engine restart cause data recorder, Stop/Start engine stall cause data recorder, Stop/Start prohibit cause data recorder, Sub-Starter & Generator Oper Count Clear, Supercharger Magnet Clutch Engagement Count Clear, VCR Base Position Learning, VIN Registration, Waste Gate Actuator Position Learning Value Clear, Waste Gate Regulation, Write High Pressure Fuel Pump Total Starts Count, Write Starter Operation Count

37 new Actuation type special tests including:

- **Engine/PCM** - Auto Stop Start, Camshaft Positioner, Check Activated Canister Shutoff Valve, Check Boost Pressure Control, Check Component Purging Pressure Control, Check Coolant Pump Switchover Valve, Check Coolant Thermostat Heating Element, Check Cylinder Fuel Injectors, Check Cylinder Fuel Injectors For Leaks, Check Deceleration Air Switchover Valve, Check Engine Oil Pump Valve, Check Exhaust Camshaft Solenoid, Check Fuel High Pressure Circulation for Leak Tightness, Check Fuel Pressure And Temperature Sensor Rail Pressure, Check Fuel Tank Pressure Sensor, Check Purging Switchover Valve, Check Quantity Control Valve, Check Throttle Valve Actuator, Component Quantity Control Valve, Engine Coolant Bypass Valve, FUEL/T TEMP SEN, Partial Load Operation Crankcase Ventilation Valve, Power

Balance, Purging Switchover Valve, TUMBLE CONTROL VALVE~TUMBLE CONTROL VALVE, VENT CONTROL/V, VIAS S/V-1

- **Others** - tests for BODY SYSTEMS, INTELLIGENT POWER DIST MOD, SIDE RADAR systems

New Subaru Coverage

- New coverage for 2021MY vehicles and systems
- Added coverage for 67 new systems
- Added coverage for 243 new vehicle-ecu combinations

6 new Adjustment type special tests including:

- **Climate (HVAC)** - Variable Flow Change Sol Duty Setting
- **Others** – tests for DOOR MIRROR (DRIVER) and POWER SEAT MEMORY

26 new Actuation type special tests including:

- **Climate (HVAC)** - A/C Change Setting, Air Mix Door Actuator Target Open (Driver Side), Air Mix Door Actuator Target Open (Passenger Side), Ambient Air Temperature setting, AUTO switch mode setting, Blower Fan Level Setting, Fresh/Rec Air Dr Act Trgt Open Angle, Heater Water Temperature Setting, In-Vehicle Air Temperature Setting, Mode Door Actuator Opening Angle Target, Quantity of Sunload Setting, Rear Defogger
- **Others** – tests for DOOR MIRROR, POWER SEAT MEMORY, COCKPIT CONTROL, TELEMATICS

New Toyota/Lexus Coverage

- Additional coverage for 2021MY vehicles and systems
- New ADAS coverage for 2020-2021Y GR Supra
- Added coverage for 152 new systems
- Added coverage for 636 new vehicle-ecu combinations

1 new Adjustment type special tests including:

- **ADAS** - KAFAS Camera Calibration for CAMERA ASSIST (KAFAS)

22 new Actuation type special tests including:

- **Climate (HVAC)** - Blower Level, Front Deicer Relay, Front Left Air Outlet Damper Control Servo Motor, Front Right Air Outlet Damper Control Servo Motor, Rear Blower Level, Rear Right Air Mix Damper Control Servo Motor
- **Body Control** - Daytime Running Light, D-Door Unlock, Door Lock, Door Unlock, Front Fog Light, Front Washer Relay, Front Wiper Hi Operation, Front Wiper Lo Operation, Headlight Relay/Light Power Supply Relay, High Beam Headlight, Panel Light, Rear Washer Relay, Rear Wiper Operation, Relay For Interior Light Auto Cut Function, Taillight/Clearance Light, Wireless Buzzer

New Coverage Details – USA European

New Alfa Romeo Coverage

- Additional coverage for 2021MY vehicles and systems
- Added coverage for 6 new systems
- Added coverage for 20 new vehicle-ecu combinations

New Audi Coverage

- Added coverage for 15 new systems
- Added coverage for 471 new vehicle-ecu combinations

8 new Actuation type special tests including:

- **Body** Daytime Running Lights Test Control Value, Hazard Warning Light Switch Functional Illum Test Ctrl Value, Heated Rear Window Test Control Value, Interior Light Dimming Test Control Value, Luggage Compartment Light Test Control Value, Permanent Driving Lights Test Control Value, Side Light Test Control Value, Tank Flap Test Sequence 1 Control Value

New BMW/Mini Coverage

8 new Adjustment type special tests including:

- **Body Control** - Ambient lighting: Automatic addressing, Central electronics control unit reset, Keyless entry: Deactivate/activate, Steering column adjustment adaptation, Window lifter motors: Adapting

New Fiat Coverage

2 new Adjustment type special tests including:

- **Engine/PCM** - GSE Injector Adaptation
- **Instrument Cluster** - Oil Service Reset

20 new Actuation type special tests including:

- **Engine/PCM** - A/C Compressor Clutch Relay Control State, Cylinder 1 Deactivation Solenoid Control State, Cylinder 4 Deactivation Solenoid Control State, Cylinder 6 Deactivation Solenoid Control State, Cylinder 7 Deactivation Solenoid Control State, Dual Speed Oil Pump, Fuel Injector Control State tests, Fuel Pump Relay Control State, Oxygen Sensor 1/1 Heater Duty-Cycle, Oxygen Sensor 1/2 Heater Duty-Cycle, Radiator Cooling Fan PWM Control State, Vacuum Pump Relay, VVA Solenoids Pre-Energization

New Land Rover Coverage

- Added coverage for 71 new systems
- Added coverage for 71 new vehicle-ecu combinations

New Mercedes Coverage

- New coverage added for 2020 GLA, SL and SLC models ADAS systems
- Added coverage for 6 new vehicle-ecu combinations

New Volkswagen Coverage

- Added coverage for 15 new systems
- Added coverage for 113 new vehicle-ecu combinations

1 new Adjustment type special tests including:

- **Engine/PCM** - Turbo Actuator Pre-Align / Self Calibrate

8 new Actuation type special tests including:

- **Body** Daytime Running Lights Test Control Value, Hazard Warning Light Switch Functional Illum Test Ctrl Value, Heated Rear Window Test Control Value, Interior Light Dimming Test Control Value, Luggage Compartment Light Test Control Value, Permanent Driving Lights Test Control Value, Side Light Test Control Value, Tank Flap Test Sequence 1 Control Value
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