

Bosch ADS Software Update – July 2021

Ver 4.13

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

Version 4.13 update includes updates to model year 2021 vehicles as well as function additions to previous model year vehicles. More new ADAS calibrations also added. 667 new special tests and 2251 new system applications are included in this update.

Software and coverage feature details provided throughout these release notes.



ADS X



ADS

Coverage Highlights (More Details start on Page 2)

2021 Coverage added – DTC, Data support and Bi-Directional functions

- Alpha Romeo
- BMW
- Chrysler
- Ford
- GM
- Honda
- Mazda
- Nissan
- Toyota
- Volkswagen
- Volvo

Multiple Models and Years Coverage added - Bi-Directional functions

ADAS* – New ADAS calibration coverage

- BMW – additional Blindspot coverage
- Audi/Volkswagen – additional Blindspot Calibration coverage
- GM – Surround View Camera
- Ford – additional Blindspot, Surround View Camera, and more MY2021 vehicles
- Nissan – additional Surround View Camera coverage
- Mercedes – additional Surround View Camera coverage
- Chrysler – additional Surround View Camera coverage

**All Dynamic ADAS calibrations are included in standard ADS Tool Subscription. Static calibrations which require ADAS targets and fixtures require additional ADAS Subscription used with ADS 625/625X.*

New Coverage Details – USA Domestic

New Chrysler/Jeep Coverage

- o Added coverage for 147 new system applications

18 new Adjustment type special tests including:

Query Test, Stereo Blend, Configure IBS for Stop-Start, ECU Replacement With Value Transfer, EGR Coolant Regeneration, EGR Low Pressure Learn, Program Engine Serial Number, Program Variant Coding, RAM Active Air Box Calibration, Reset H2O Lamp, VGT Learn, VIN Lock, Activate Driver and Passenger Head Restraint, Accessory Delay, Clear CAN BUFFER Count, Clear Last VTA Trigger, Configure DRL, Restore Customer Programmable Features

9 new Actuation type special tests including:

Closed Couple Catalyst Replacement, Display Start Inhibit Data, EGR Hi Pressure Motor Test, NOx Sensor Replacement, Rail Pressure Sensor Replacement, SCR Inlet Temp Sensor Replacement, Small Leak Verification Test, Adjustable Pedal Position, Mirror Puddle Lights

New Ford Coverage

- o Added coverage for 200 new system applications

5 new Adjustment type special tests including:

Brake Booster/Steering Wheel Angle Sensor Calibration, Hydraulic Control Unit (HCU) Coil Solenoid Calibration, EPAS Configuration, Damper Cold Start Initialization, VIN Learn

44 new Actuation type special tests including:

4WD/AWD Front Axle Disconnect - High Level Strategy Commanded, 4WD/AWD Transfer Case Motor Position Request, Frequency, Next/Last (>|) Button, Left Front Defrost Output, Right Front Defrost Output, Pedal Movement, Driver Door Interior Lock/Unlock Latching Switch Status, Spotlight Mirror Output, Seat Bolster Deflate, Seat Bolster Inflate, Seat External LED, Seat Lumbar Downward, Seat Lumbar Upward, Channel A (ACM), Channel A (SDARS), Channel A Entertainment System AUX, Channel A Entertainment System INTERNAL, Channel B (ACM), Channel B (SDARS), Channel B Entertainment System AUX, Channel B Entertainment System INTERNAL, Entertainment System Primary Source, Infotainment System Power, Phone - Mono Primary Source, Phone - Phone Call, Phone - Stereo Primary Source, Phone - Stereo Secondary Source, Phone - Voice Session, Primary Audio Source, Satellite Digital Audio Receiver Primary Source, Satellite Digital Audio Receiver Secondary Source, Battery Charger Cord Lock Request, Transmission Temperature Gauge Pointer Position – Commanded, Seat Bolster Deflate, Seat Bolster Inflate, Seat External LED, Rear Differential Fluid Pump, Engine Coolant Pump Speed - Commanded, One-Touch Start Status, Rear Differential Coolant Pump Is Commanded To Pump, Hybrid/EV Wake Up – Commanded, Cabin Heater Diverter Valve, Command of diverter valve - Battery pack, Engine Coolant Bypass Valve -D- Output Status, Auxiliary Transmission Fluid Pump Commanded, Cabin Heater Diverter Valve, Command of diverter valve - Battery pack, One-Touch Start Status, Analog Height Sensor Power

New GM Coverage

- Added coverage for 2297 new system applications

8 new Actuation type special tests including:

Solenoid Relay Test, BCM Replacement Information, Deactivate Brake Boost System, Rear Differential Clutch Motor Current, ABS Check, Radio Tuner AM Frequency, Radio Tuner FM Frequency, Transmission Clutch Learn Status

New Coverage Details – USA Asian

New Honda/Acura Coverage

- Added coverage for 243 new system applications

New Mazda Coverage

- Added coverage for 43 new system applications

New Nissan Coverage--

- Added coverage for 10 new system applications

6 new Adjustment type special tests including:

Levelizer Adjustment, CLUTCH SENSOR RESET, Cause of Auto Cancel 2, Cause of Auto Cancel 4, Cause of Auto Cancel 6, FEB Operation Mileage

4 new Actuation type special tests including:

Accelerator Pedal Actuator Test 1, Accelerator Pedal Actuator Test 2, ADAS Buzzer 2, Switch Lamp

New Toyota/Lexus Coverage

- Added coverage for 98 new system applications
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New Coverage Details – USA European

New Alpha Romeo Coverage

- o Added coverage for 34 new system applications

1 new Adjustment type special test:

VIN Lock

New Audi Coverage

221 new Actuation type special tests including:

ESP-Data (Brake), ESP-Data (Variants), Pump For All Wheel Drive Electronic Voltage Value, Airflow Valve Ctrl Hyb Batterie Airflow Valve Target Position, Charging Cur DC DC Converter Ctrl Val Set Charging Cur DCDC, Accumulator Activation Test Control Value Moving Volume, Accumulator Activation Test Control Value Piston Speed, Accumulator Activation Test Control Value Smart Actuator Speed, Brake Activation Test Control Value Control Input Rod Distance, Brake Activation Test Control Value Input Rod Speed, Brake Activation Test Control Value Speed ??Input Rod, Dr Warning Disp Brake Booster Ctrl Value Advice Text Message, Dr Warning Disp Brake Booster Ctrl Value Brake Sys Warning Lamp, Dr Warning Disp Brake Booster Ctrl Value Warning Text Message, Driver Warning Display Brake Booster Ctrl Value OBD Status Lamp, Actuation Ifl Valve, Actuation Ifr Valve, Actuation Lpf1 Valve, Actuation Lpf2 Valve, Actuation Mci1 Valve, Actuation Mci2 Valve, Actuation Of1 Valve, Actuation Ofr Valve, Actuation Pump, Actuation RI Emb (2), Actuation RI Emb, Actuation Rr Emb (2), Actuation Rr Emb, Actuation Vacuum Pump1, Actuation Vacuum Pump2, Actuatoric Test Actuationtime, Actuatoric Test Delaytime, Countersteering Check Control Value Torque Control, Dynamic Test Actuationtime, Dynamic Test Watingtime, Electronic Stability Program (ESP), Hill Hold Control (HHC), Parking Brk Mot Lt Closing Stepwise PK Brk Mot Lt Closing Stepw, Parking Brk Mot Rt Closing Stepwise PK Brk Mot Rt Closing Stepw, Parking Brk Motors Closing Stepwise PK Brk Motors Closing Stepw, Wheel Speed Sensor Test Executiontime, Aerial For Entry And Start Authorisation Left Diag Ctrl Value, Aerial For Entry And Start Authorisation Right Diag Ctrl Value, Close Sliding Roof Signal, Contact Sensors For Exterior Door Handle Diagnosis Ctrl Value, Interior Aerial 1 For Entry And Start System Diag Ctrl Value, Interior Aerial 2 For Entry And Start System Diag Ctrl Value, Interior Door Handle Illumination, Interior Monitoring System Indicator Lamp, Interior Monitoring Vehicle Type, Lug Compartment Aerial For Entry And Strt Sys Diag Ctrl Value, Output 22 For Exterior Lighting Test Control Value, Output 23 For Exterior Lighting Test Control Value, Outside Warning Light/Door Exit Light Rear Right, Rear Left Lock Motor, Rear Right Lock Motor, Rear Windshield Unlocking Control Circuit, Vehicle Inclination Sensor Indicator Lamp, Actuator Test LED Bar Control Value Frequency, Auto-Lock/Unlock for Rear Lid, Ceiling Light Module Int And Reading Lights Test Ctrl Value, Close Sliding Roof Signal, Comp For Multi Contour St Psgr Sd Actuation Tst Ctrl Value, Compressor For Multi Contour St Dr Sd Actuation Test Ctrl Value, Contour Lighting Of Multimedia System Op Unit Test Ctrl Value, Control Motor For Air Dist Rear Left Test Ctrl Value On Off, Control Motor For Air Dist Rear Right Test Ctrl Value On Off, Convenience And Dr Assist Op Unit 2 Lvl Ind Lmp Test Ctrl Value, Cornering Light: Dimming Duration (Activation), Cornering Light: Dimming Duration (Deactivation), Cornering Light: Maximum Activation, Front Washer Pump Ctrl Unit Heat Wiper Arms Test Control Value, Front Wiper Service Mode/Position, Front Wiper Tear Wiping, Illumination Operating And Display Unit Test Ctrl Value On Off, Ind Lamp For Start Stop Operation Or Elec Dr Test Ctrl Value, Ioniser Test Control Value, Left Window Defroster Flap Positioning Motor Ctrl Value On Off, Lt B-Pillar And Footwell Shut Off Flap Motor Ctrl Value On Off, Lt Footwell Temperature Flap Positioning Mot Ctrl Value On Off, Multi Contour Seat Driver Side System

Function Test Ctrl Value, Multi Contour Seat Passenger Side System Fun Test Ctrl Value, Op And Disp Units For Air Conditioning Speaker Test Ctrl Value, Rear Air Recirculation Flap Positioning Motor Ctrl Value On Off, Rear Left Temperature Flap Positioning Motor Ctrl Value On Off, Rear Right Temperature Flap Positioning Motor Ctrl Value On Off, Right B-Pillar And Footwell Shut Off Flap Mot Ctrl Value On Off, Right Window Defroster Flap Positioning Motor Ctrl Value On Off, Rt Footwell Temperature Flap Positioning Mot Ctrl Value On Off, Sliding Roof Function Request Disable, Static Headlight Range Control Test Control Value, Sup V 2 For Ctrl Motors Of Air Condition Test Control Value, Sup Voltage For Ctrl Motors Of Air Condition Test Control Value, Visual Comfort Operation/Closing Confirmation, Damper Valve Current Front Left Control Value Current, Damper Valve Current Front Right Control Value Current, Damper Valve Current Rear Left Control Value Current, Damper Valve Current Rear Right Control Value Current, Air Condition Compressor Activation Setpoint, Air Distribution Flap Front Control Motor Footwell Setpoint, Blower Activation tension, Compressor Run-In/Cooling Check, Fresh Air Blower Rear Tension, Heated Seat Level 2 to 1 Reduction Time, Heated Seat Level 3 to 2 Reduction Time, Heated Seat Thumb Wheel Temp Setting 2, Heated Seat Thumb Wheel Temp Setting 3, Indirect Ventilation Flap Motor Setpoint, Refrigerant Shut Off Valves Dynmc Tst Comp Pow Lim 1, Analog Indicators, Control lamp For dual-circuit and handbrake system, Instrument Cluster Lamp Test, Kontrollleuchte Fur Feststellbremse, Pilot lamp for pre-glow time, Special Function II, Switch and Instrument Lighting, Tank Characteristic (Fuel Level Sensor 3), Tank Characteristic (Fuel Level Sensor 4), Internal Blower Control Control Value On Off, Mirror Folding (In) Motors, Mirror Folding (Out) Motors, Idle Speed Adjustment Adjustment Value Idle Speed, Idle Speed Adjustment Nmot Sb Q10 8 Bits Calibration Data, Idle speed, AGW Test Control Value Blink Frequency, Req 48V V Converter Tst Ctrl Val Set Pnt V, Req Hi V Converter Tst Ctrl Val Set Pnt V, Req Starter Gen Tst Ctrl Val excitation current limit, Req Starter Gen Tst Ctrl Val Generator Set Voltage, Requested Alternator Test Control Value generator set voltage, Dimming Lt Static Cornering Lighting Ctrl Value Dimming Target, Dimming Rt Static Cornering Lighting Ctrl Value Dimming Target, Light Dist Left Headlamp Ctrl Value Light Distribution Target, Light Dist Right Headlamp Ctrl Value Light Distribution Target, Move Lt Headlamp Horizontally Ctrl Val Horizontal Tar Position, Move Lt Headlamp Vertically In Mm Dev Vert Positon, Move Rt Headlamp Horizontally Ctrl Val Horizontal Tar Position, Move Rt Headlamp Vertically In Mm Dev Vert Positon, Remote Frequency Selection AM Frequency AM, Remote Frequency Selection DAB Band III Frequency DAB Band 3, Remote Frequency Selection DAB Band L Frequency DAB L Band, Remote Frequency Selection FM Frequency FM, Act St Vent Rr Lt Tst Ctrl Val Rr Lt St Bkrst Fan 1, Act St Vent Rr Lt Tst Ctrl Val Rr Lt St Cushion Fan 1, Act St Vent Rr Rt Tst Ctrl Val Rr Rt St Bkrst Fan 1, Act St Vent Rr

New BMW/Mini Coverage

- o Added coverage for 218 new system applications

8 new Adjustment type special tests including:

Activate/Stop/Status DSC Bleeding(Prepare), Calibration Run of the Flap Motors, Reset Cooling Media Compressor Gen. 2.0, Initialization of Soft Top, Delete the personal profile, Clearing Adaptation Values, Reset Learned CAN Message, Reset Rear Axis and Learned Can Message

27 new Actuation type special tests including:

Blower at 80%, Control Flap Motor Addressing - Emergency Activation, Control Flap Motor Addressing - Emergency Run Limit Position, Defroster Flap 100%, Defroster Flap at 0%, Footwell Flap, Rear Left, at 0%, Footwell Flap, Rear Left, at 100%, Footwell Flap, Rear Right, at 0%, Footwell Flap, Rear Right, at 100%, Fresh Air and Recirculated Air Flap at 0%, IHKA Indicator

Lights, Insulation Test of Cooling Media Compressor - Active High-Side, Insulation Test of Cooling Media Compressor - Active Low-Side, Mixed Air Flaps at 0%, Mixed Air Flaps at 100%, Set Front Footwell Flaps to 0%, Set Front Footwell Flaps to 100%, Set Front Stratification Flaps to 0%, Set Front Stratification Flaps to 100%, Set the Running-in Protection for Air-condition Compressor, Speed Cooling Media Compressor, Stratification Flap, Rear Left, at 0%, Stratification Flap, Rear Left, at 100%, Stratification Flap, Rear Right, at 0%, Stratification Flap, Rear Right, at 100%, BDC Terminal_15 (de-)activation, Lock and Enable

New Fiat Coverage

1 new Adjustment type special tests including:

VIN Lock

1 new Actuation type special tests including:

Small Leak Verification Test

New Mercedes Benz Coverage

2 new Adjustment type special tests including:

Resetting The Operating Hours Counter, Tourist Mode Adaptation

4 new Actuation type special tests including:

Curve Lighting Of The Left And Right Headlamps, Headlamp Range Adj (HRA/LWR) Of The Left And Right Headlamps, Left And Right Cornering Lamp, Light Distribution Of The Left And Right Headlamps

New Volkswagen Coverage

- o Added coverage for 218 new system applications

69 new Adjustment type special tests including:

Occupant Detect System, Remote Control Learning, Undervoltage Heater Turn-Off, Basic Setting - Calibrate All Wheel Drive Clutch Pump, Basic Setting - Resetting All Adaptations Values, Camera Calibration: Camera Height (Step #0), Camera Calibration: Confirmation (Step #3), Camera Calibration: Distance to Rear Axle Wheelbase (Step #2), Camera Calibration: Distance to Surface (Step #1), 03 - Adaptation -J104- with Trailer Stabilization, Actuation Time To Open Rear Lid With Remote Control, Anti-theft Alarm Vehicle Inclination Sensor, Anti-theft System Interior Monitoring, Rear Roof Shades Basic Setting, Rear Sliding Roof Basic Setting, Roof Shades Basic Setting, Sliding Roof Basic Setting, Coming-Home Time, Garage Door Opener Control Module, Headlight Adjustment, Leaving-Home Time, Power Adjustable Steering Column Control Module Basic Setting, A/C Comfort Parameter For Start/Stop Function, Adaptation - After Heating Time Of Auxiliary Heater, Adaptation - Compressor Activation In Efficiency Mode, Application Characteristics, Blower Voltage With Voice Control, Compressor Run-In/Air Conditioning, Flap Motors Address Lookup/Initiation, Vehicle Not Cooling, Vehicle Not Heating, Dynamometer Mode, Electro Magnetic Tolerance Mode Of Actuator Motors, Unrestricted Addressing Of Actuator Motors, Mileage Since Service, Soot Entry, Thermal Load, Basic Setting Rear Lid, Adaptation Of Radiator Shutter, Adaptation Of Transmission Neutral Position Sensor, Adapting/Setting Turbocharger, Coming-Home Time, Desulphurisation Nox Storage Catalyst Bank 1, Diesel Particle Filter (DPF) Service Regeneration, Dynamic Start of Injection Adjustment, Leaving Home Time, NOX Sensor

Offset, Nox Storage Catalyst Bank 1, Timing Chain Lengthening Reset After Replacing Chain, ECU Replacement With Value Transfer, EGR Coolant Regeneration, Program Variant Coding, VGT Learn, Basic Setting - Head Light Adjustment, Mileage Since Service, Soot Entry, Thermal Load, Activate Driver and Passenger Head Restraint, Select Characteristics Curve, Adaptation Steering Wheel Heater, Steering Assistance Level Adjustment, Accessory Delay, Clear CAN BUFFER Count, Clear Last VTA Trigger, Configure DRL, Restore Customer Programmable Features, Coming-Home Time, Gear Selector Adaptation, Hydraulic System Bleed, Hydraulic System Release Pressure, Kiss Point Basic Setting, Reset Clutch Wear, Selector Lever Basic Setting, Adaptive Damping System Basic Setting, Vehicle Height Learning

215 new Actuation type special tests including:

ESP-Data (Brake), ESP-Data (Variants), Pump For All Wheel Drive Electronic Voltage Value, Airflow Valve Ctrl Hyb Batterie Airflow Valve Target Position, Charging Cur DC DC Converter Ctrl Val Set Charging Cur DCDC, Accumulator Activation Test Control Value Moving Volume, Accumulator Activation Test Control Value Piston Speed, Accumulator Activation Test Control Value Smart Actuator Speed, Brake Activation Test Control Value Control Input Rod Distance, Brake Activation Test Control Value Input Rod Speed, Brake Activation Test Control Value Speed ??Input Rod, Dr Warning Disp Brake Booster Ctrl Value Advice Text Message, Dr Warning Disp Brake Booster Ctrl Value Brake Sys Warning Lamp, Dr Warning Disp Brake Booster Ctrl Value Warning Text Message, Driver Warning Display Brake Booster Ctrl Value OBD Status Lamp, Actuation Ifl Valve, Actuation Ifr Valve, Actuation Lpf1 Valve, Actuation Lpf2 Valve, Actuation Mci1 Valve, Actuation Mci2 Valve, Actuation Of1 Valve, Actuation Ofr Valve, Actuation Pump, Actuation RI Emb (2), Actuation RI Emb, Actuation Rr Emb (2), Actuation Rr Emb, Actuation Vacuum Pump1, Actuation Vacuum Pump2, Actuatoric Test Actuationtime, Actuatoric Test Delaytime, Countersteering Check Control Value Torque Control, Dynamic Test Actuationtime, Dynamic Test Watingtime, Electronic Stability Program (ESP), Hill Hold Control (HHC), Parking Brk Mot Lt Closing Stepwise PK Brk Mot Lt Closing Stepw, Parking Brk Mot Rt Closing Stepwise PK Brk Mot Rt Closing Stepw, Parking Brk Motors Closing Stepwise PK Brk Motors Closing Stepw, Wheel Speed Sensor Test Executiontime, Aerial For Entry And Start Authorisation Left Diag Ctrl Value, Aerial For Entry And Start Authorisation Right Diag Ctrl Value, Close Sliding Roof Signal, Contact Sensors For Exterior Door Handle Diagnosis Ctrl Value, Interior Aerial 1 For Entry And Start System Diag Ctrl Value, Interior Aerial 2 For Entry And Start System Diag Ctrl Value, Interior Door Handle Illumination, Interior Monitoring System Indicator Lamp, Interior Monitoring Vehicle Type, Lug Compartment Aerial For Entry And Strt Sys Diag Ctrl Value, Output 22 For Exterior Lighting Test Control Value, Output 23 For Exterior Lighting Test Control Value, Outside Warning Light/Door Exit Light Rear Right, Rear Left Lock Motor, Rear Right Lock Motor, Rear Windshield Unlocking Control Circuit, Vehicle Inclination Sensor Indicator Lamp, Actuator Test LED Bar Control Value Frequency, Auto-Lock/Unlock for Rear Lid, Ceiling Light Module Int And Reading Lights Test Ctrl Value, Close Sliding Roof Signal, Comp For Multi Contour St Psgr Sd Actuation Tst Ctrl Value, Compressor For Multi Contour St Dr Sd Actuation Test Ctrl Value, Contour Lighting Of Multimedia System Op Unit Test Ctrl Value, Control Motor For Air Dist Rear Left Test Ctrl Value On Off, Control Motor For Air Dist Rear Right Test Ctrl Value On Off, Convenience And Dr Assist Op Unit 2 Lvl Ind Lmp Test Ctrl Value, Cornering Light: Dimming Duration (Activation), Cornering Light: Dimming Duration (Deactivation), Cornering Light: Maximum Activation, Front Washer Pump Ctrl Unit Heat Wiper Arms Test Control Value, Front Wiper Service Mode/Position, Front Wiper Tear Wiping, Illumination Operating And Display Unit Test Ctrl Value On Off, Ind Lamp For Start Stop Operation Or Elec Dr Test Ctrl Value, Ioniser Test Control Value, Left Window Defroster Flap Positioning Motor Ctrl Value On Off, Lt B-Pillar And Footwell Shut Off Flap Motor Ctrl Value On Off, Lt Footwell Temperature Flap Positioning Mot Ctrl Value On Off, Multi Contour Seat Driver Side System Function Test Ctrl Value, Multi Contour Seat Passenger Side System Fun Test Ctrl Value, Op And

Disp Units For Air Conditioning Speaker Test Ctrl Value, Rear Air Recirculation Flap Positioning Motor Ctrl Value On Off, Rear Left Temperature Flap Positioning Motor Ctrl Value On Off, Rear Right Temperature Flap Positioning Motor Ctrl Value On Off, Right B-Pillar And Footwell Shut Off Flap Mot Ctrl Value On Off, Right Window Defroster Flap Positioning Motor Ctrl Value On Off, Rt Footwell Temperature Flap Positioning Mot Ctrl Value On Off, Sliding Roof Function Request Disable, Static Headlight Range Contr

New Volvo Coverage

- Added coverage for 14 new system applications
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