

Bosch ADS Software Update – April 2021

Ver 4.10

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

Version 4.10 update includes updates to model year 2021 vehicles as well as function additions to previous model year vehicles. More new ADAS calibrations also added. 1028 new special tests and 2633 new systems are included in this update.

Pre-Post Scan reports re-formatted for quick and easy view of DTCs and descriptions. Additional software enhancements and bug fixes also added.

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 support and Bi-Directional functions

- Ford
- Jaguar
- Land Rover

ADAS* – New ADAS calibration coverage

- Nissan/Infiniti: All feature coverage for most of MY 2020 & 2021 models
- Subaru: All feature coverage for Outback model
- Toyota: more 2021 model coverage added
- Alfa Romeo: MY2020 Front Camera coverage added
- BMW: MY 2020 & MY 2021 Surround View coverage added
- VAG: Surround View coverage for Gen 2 floor mat added
- Mitsubishi: all feature coverage added for Outlander sports
- Ford: Coverage added for more 2021 models
- Mazda: Front Radar and Front Camera coverage added for Miata

**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.*

Software Improvements / Bug Fixes

- All DTC Scan report reports layouts have been improved
- Partial VIN matching - VINs are now inspected for year & make if there is no full match found in the database
- Quick Scan performance improvements for CAN protocol
- Added missing DTC descriptions to some controllers for Demo Mode vehicle

New Coverage Details – USA Domestic

New Ford Coverage

- o Added coverage for 1051 new systems for 2021MY

6 new Adjustment type special tests including:

Electronic Parking Brake (EPB) Service Tools, Front Camera Calibration

190 new Actuation type special tests including:

(Cruise) Resume Switch, (Cruise) Set- Switch, (Cruise) Set+ Switch, 4WD/AWD Power Transfer Unit - Clutch Commanded State, 4WD/AWD Power Transfer Unit - High Level Strategy Commanded, A/C Recirculating Servo Position Status, ABS Valve Power Supply, Active Grille Air Shutter -B- Position Commanded, Actuator Supply Voltage -B- Control State, Adaptive Cruise Distance Gap (-) Switch, Adaptive Cruise Distance Gap (+) Switch, Anti-Theft Horn Status, Auxiliary Blower Output, Brake Light Activation, Brake/Shift Interlock, Center High Mounted Stop Lamp Output Control, Commanded Equivalence Ratio (Air to Fuel Mixture) Bank 1, Commanded Equivalence Ratio (Air To Fuel Mixture) Bank 2, Continuous Vacuum Hublock Output Engaged, Coolant Pump -A- Control Speed - Commanded, Courtesy Lamps, Courtesy Puddle Step Lamps, Delayed Accessory Power, EGR Valve Position Desired, Electric Transmission Fluid Pump Control Duty Cycle - Commanded, Engine Coolant Bypass Valve Control Output, Engine Oil Pressure Control Duty Cycle - Commanded, Engine Running Fuel Injector Control State, Evaporative Emission Canister Vent Valve, Fan Speed Desired, Four Wheel Drive Clutch Output, Front Left/Front Right Traction Control Isolation Valve 1, Front Left/Front Right Traction Control Supply 1, Front Park Lamps Output, Front Window Down Output, Front Window Up Output, Generator Voltage Desired, Heater Control For HO2S 11 And HO2S 21, Heater Control For HO2S 12 And HO2S 22, Key (Removal) Inhibit, LED Backlighting, Left Cursor Down Arrow, Left Cursor Left Arrow, Left Cursor OK Button, Left Cursor Right Arrow, Left Cursor Up Arrow, Left Front Fog Lamp, Left Front Turn Signal Lamp Status, Left Headlamp High Beam, Left Headlamp Low Beam, Left Rear Turn Signal Lamp Status, Left Rear Turn Signal/Trailer Relay Status, Line Pressure Control Desired, Load Shed Output Control, Mirror Fold In Output, Mirror Fold Out Output, PCM WAKEUP LINE, Power Fold Mirror Activation Status, Rear (Hvac) Mode Control Input, Rear Blower Control, Rear Defrost (Heated Backlight), Rear Left/Rear Right Traction Control Isolation Valve 2, Rear Left/Rear Right Traction Control Supply 2, Rear Locking Diff Output Duty Cycle (Optional), Rear Locking Differential PWM Output State, Rear Park Lamps Output, Rear Temperature Flap Position, Rear Window Down Output, Rear Window Up Output, Right Cursor Down Arrow, Right Cursor Left Arrow, Right Cursor OK Button, Right Cursor Right Arrow, Right Cursor Up Arrow, Right Front Fog Lamp, Right Front Turn Signal Lamp Status, Right Headlamp High Beam, Right Headlamp Low Beam, Right Rear Turn Signal Lamp Status, Right Rear Turn Signal/Trailer Relay Status, Run/Accessory Output Control, 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, Shock Setting Button, Side Mirror Heating Output Control, Side Mirror Turn Signal Lamp Control, Speed Control (ASLD) Switch, Speed Control Actuator Switch Off, Speed Control Actuator Switch On, Speed Control Cancel Switch, Speed Control Cancel/Resume Switch, Speed Control Gap Switch, Speed Control On/Off Cancel Switch, Speed Control On/Off Switch, Start Button Mode Indicator Control, Steering Effort Button, Torque Converter Clutch Solenoid Commanded Current, Trans Hydraulic Accumulator Sol Ckt - Commanded Energized, Transfer Case Shift Motor Pos Sense - Contact Plate Power Stat, Variable Camshaft Timing Intake Desired Angle

New GM Coverage

- o Added coverage for 92 new systems

11 new Adjustment type special tests including:

All Cameras Alignment Learn, Front Cameras Alignment Learn, Left Cameras Alignment Learn, Rear Cameras Alignment Learn, Right Cameras Alignment Learn, RR Entertain Mode P-Seat Target Position Setting, RR Interference Avoidance Operation Area Setting, Surround View Camera Calibration, Vehicle Direction Camera Learn

4 new Actuation type special tests including:

Show Current Frontview Camera Video, Show Current Left Sideview Camera Video, Show Current Rearview Camera Video, Show Current Right Sideview Camera Video

New Coverage Details – USA Asian

New Honda/Acura Coverage

- o Added coverage for 4 new systems

New Toyota/Lexus Coverage

- o Added coverage for 18 new systems

197 new Adjustment type special tests including:

A/C Auto Switch Mode, A/C Control Mode Switching, Advanced Park Parallel Parking Control Area, Advanced Park Perpendicular Parking Control Area, AFS (Electronic Swivel) Function, AFS Function, AHS Function, AHS Operation Pattern Setting, Air Conditioner Mode, Audio Information Display Function, Auto Door Lock Pattern Setting (Speed), Auto Door Unlock Function when D-Door Open, Auto Entry Cancel 2 Setting, Auto Entry Cancel Setting, Auto Wiper, Automatic Door Lock Setting, Automatic Door Unlock Setting, Automatic Light Off Timing Setting, Automatic Mirror Fold Setting, Bad Weather Function, Bluetooth Connection History, Brightness Level Adjust (Canceling), Brightness Level Adjust (Lowering), Camera Synchronous Error History, Closer Power Operation, Daytime Running Light Function, Diagnostic Mode, Door Auto Lock Timer Setting, Door Handle Lock Button, Door Key Related Close, Door Key Related Open, Door Key Related Operation, Door Lock Answerback Sound Setting, Door Lock Indicator Function, Door Lock Indicator Pattern Setting (IG OFF), Door Lock Indicator Pattern Setting (IG ON), Door Open SW Operation Adjust, Door Unlock with 1 Motion., Driver Seat Distance Adjust when Get Off, Driver Seat Lift Up Distance Adjust when Get Off, ECO Drive Indicator Zone Display Function, ECO Mode Control, Efficient Ventilation Mode, Emblem Sensor Detection Sensitivity, Engine Revolution (For Judging Stable Combustion), Entry Unlock Twice Function, Extended Headlight Lighting, Exterior Lights Lighting Timer Setting, Exterior Lights ON Function, Exterior Lights ON when Approached Function, Exterior Lights ON when Door Opened Function, Exterior Lights ON when Door Unlocked Function, FCTA Function ON/OFF State Stored, FCTA Warning Timing State Stored 1, FCTA Warning Timing State Stored 2, FCTA Warning Timing State Stored 3, FL Neck Heater Auto Mode Adjustment, Forget to Turn IG OFF Alarm Function, FR Neck Heater Auto Mode Adjustment, Front SW Auto Operation, Glass Hatch Open Function, Hazard Answer Back Function, Headlight

ON in Conjunction with Wiper Function, Headlight Upper Shade Angle Setting, Ignition Available Area Setting (Back Door Type), Ignition Available Area Setting (Trunk Lid Type), Interior Footwell Lights Function, Interior Illumination Light 2 Function, Interior Illumination Light 3 Function, Interior Lights Lighting Timer Setting, Interior Lights ON Function, Intrusion Sensor 1 Sensitivity Level Adjust, Intrusion Sensor 2 Sensitivity Level Adjust, Intrusion Sensor Reduction in Sensitivity Setting, Intrusion Sensor Sensitivity Level (Window Open), Key Left in Vehicle Alarm Function, Key Low Battery Warning Function, Kick Sensor Close & Lock Function, Kick Sensor Operation Function with ACC ON, Left the Key Prevention Funct (Battery Remove), Light Auto OFF Delay Setting, Light Blink Clearance Lights at Unlock Function, Light Control Glass Brightness Memory Function, Light Control Glass Voice Control Function, Light up Clearance Lights at Door Unlock Funct, Light up Clearance Lights Door Unlock Function, Lock Indicator Lighting Time Adjust, Low Speed Wide Light Function, Master Caution Display Function, Memory Call Function, Memory Call Link Function, One Motion, One Motion with Unlock Door, Open Door Warning Function, Optical Disc Error History, P/W Operation Buzzer W/ Transmit Function, Park Wait Time Adjust, Partition Lighting Adjust, PBD Assist Close Operation, PBD Assist Open Operation, PBD Buzzer Function, PBD Buzzer Tone, PBD Buzzer Volume Adjust, PBD Close SW Press Condition, PBD Close SW Waiting Time, PBD One Motion, PBD Power Operation, PBD SW Operation, PBD/Emblem Sensor Function, PCS Cooperate Function, PKSB (V) Operation Timing Setting, PKSB (V) Sensitivity, Power Back Door Opening Adjust, Power Window Voice Control Function, Projection Adjustment (Distortion), Projection Adjustment (Keystone), Projection Adjustment (Tilt), Proposal Service Frequency Adjust, Proposal Service Volume Adjust, Proposal Services Function, R Wiper Stop Function at Back Door/Trunk Lid Open, Rear Sunshade linked with Shift Lever R Funct, Rear SW Auto Operation, Rear Wiper with Reverse Setting, Refrigerant Shortage Check, Remote Eng Start Stop Setting (Trunk Lid Opened), Residential Area Mode Setting, Response Time Adjust, Reverse Coupled Actuation Mirror Angle Setting, Right Headlight Shade Angle Setting, Roof Opened Intrusion Function, SCT815 Millimeter Wave Radar Sensor Adjustment, Seat Airflow Mode Setting, Seat Position Voice Control Function, Seat Switch Link Function, Security Control with Mechanism Key Function, Sensitivity Adjust, Shade Upper Area Lighting Function, Shift Lever R Signal Delay Time Adjust, Shift Linked Automatic Door Lock Function, Shift Linked Automatic Door Unlock Function, Slide Roof Open Warning Function, Slide Roof Voice Control Function, Software Error History, Speed Limit Display Function, Speed Linked Automatic Door Lock Function, Speed Linked Automatic Door Unlock Function, Start Indicator Function, Start Switch Light Function, Tire Pressure Sensor Registration, Total Warm-up Time Setting, Traffic Sign Recognition Animation Function, Trunk Lid Linked with Door Lock Function, Trunk Lid Open Mode Function, Trunk Lid Operation by Electrical Key Function, Trunk Lid Operation by Entry Function, Turn by Turn Animation Function, Unlock Key Twice Function, Valet Mode Cancel, Video Device Connection Check(mm), Walk Away Lock after Getting Out Func (Closing), Walk Away Lock after Getting Out Function, Warm-up Time Setting, Warning by Horn Function, Window Open Warning Function, Wiper Voice Control Function, Wireless Backdoor Open Operation Adjust, Wireless Buzzer Response Function, Wireless Control Function, Wireless Glass Hatch Open Operation Adjust, Wireless Key Related Close, Wireless Key Related Open, Wireless Key Related Operation, Wireless PBD Operation, Wireless Power Back Door Open, Wireless Trunk Lid Open Operation Adjust, Wireless Unlock Twice Function

42 new Actuation type special tests including:

Advice Display, AFS Alarm Display, AFS OFF Indicator, Ashtray Light, Auto High Beam Control Indicator, Auto High Beam Warning Indicator, Clearance Light, Cornering Lamp Test, Courtesy Light, Defogger Control, Drive Swivel Motor LH LEFT, Drive Swivel Motor RH RIGHT, Drive The Leveling Motor, Extra High Beam, Fold/Unfold Mirrors, Foot Light, Headlight High Beam, Headlight Indicator, Headlight Leveling Indicator, Headlight Low Beam, High Beam LH, High Beam RH, High-Beam Headlights, Inside Handle Light, Latch Release Test, Left Turn Signal Lamp, Low-Beam Headlights, Mirror Left/Right, Mirror Up/Down, PBD Buzzer, PBD Close SW Light, PBD Clutch, PBD Motor, PBD Open/Close, Power Window SW LED, Right Turn Signal Lamp, Signal Check, Slide Roof, Sliding Sunshade, Variable Shade Beam LH, Variable Shade Beam LH/RH, Variable Shade Beam RH

New Coverage Details – USA European**New BMW/Mini Coverage****1 new Adjustment type special test:**

All-Round Vision Camera

New Jaguar/Land Rover Coverage

- o New coverage for 2021MY vehicles and systems
- o Added coverage for 1461 new systems

570 new special tests including:

A/C compressor adaptation, A/C control unit system self-test, ABS hydraulic-system bleeding, ABS/ESP system: Static test, Access/start authorization control unit: System self-test, Activate electric fuel pump, Activate/deactivate transportation mode, Adaption/reset, AdBlue pump initialisation, AdBlue tank level sensor calibration, AHRC/xenon light calibration, Air distribution flap control motor: Adapting, Air distributor flap, Air flap range/tolerance limits, Airbag system: System self-test, Alarm system LED, Apply parking brake, Autom. transm. adaptation values reset, Automatic transmission component test, Auxil./supplementary heater fuel pre-supply, Auxil./supplementary heating functional test, Auxiliary blower relay, Auxiliary lamp relay, Backrest adjustment motor To rear, Backrest adjustment to front, Backrest adjustment to rear, Backrest side bolster air supply, Backrest side bolster venting, Backrest switch: Down, Backrest switch: Up, Battery adaptation, Battery replacement, Belt tensioner, Bleed system/AdBlue circuit leak test, Blind Spot Control lamp on, Blind spot warning lamp, Blinker, left front, Blinker, right front, Blower motor speed, Boost pressure actuator 1, Brake booster vacuum pump: Test, Brake pressure sensor zero pos. compensation, Button test, Byp.cold-air flap ctrl.motor pos., Calibration driver's seat, Calibration front passenger seat, Central electronics ECU system self-test, Charge-air cooler fluid pump, Cigarette lighter relay, Close door actuator stop, Compressor control flap, Compressor magnetic clutch, Control unit calibration, Control unit configuration, Cooling fan actuation, DC/DC converter: System self-test, Deactivate service mode, Diesel particulate filter adaption, Diesel particulate filter regeneration run, Display illumination, Display test, Display tilt adjustment test, Distance sensors, Door control power distribution, Door control power distribution 2, DPF differential press. sensor initialization, Driv.side window lifter, opening, Driver door window lifter adaptation, Driver door window lifter initialization, Driver profile control: System self-test, Driver seat adaptation, DS air distrib.flap control motor, EGR solenoid valve (B1), EGR solenoid valve

(B2), Electric brake booster: System self-test, Electric drive control: System self-test, Electric fuel pump control basic setting, Electric fuel pump relay, Electric parking brake assembly test, Electric parking brake initialization, Electrical fuel pump, Engine management system self-test, Engine mounting control, Engine oil pump, bypass sol.valve, Enter a new valve code manually, Enter sensor code manually, ESP actuation system test, ESP brake pedal position sensor adaptation, ESP control unit: Transfer vehicle identification number, ESP interchange test, ESP sensor ring test, Exhaust camshaft advance, bank 2, Exhaust flap adaption, Exhaust-gas recirculat. actuator, Extend door handle, Exterior mirror puddle lamp, External door handle lighting, External noise volume adjustment, Fan functional test, Fog lamp, Fog light, Four-wheel drive bleed pump, Four-wheel drive system: Test, Front and rear control motor basic settings, Front blower motor relay, Front left ABS solenoid valve, Front left outlet valve, Front left TPM antenna positive, Front right ABS solenoid valve, Front right outlet valve, Front window lifter: Open, Fuel adaption, Fuel evap. shutoff valve, Fuel pump adaptation, Fuel pump duty cycle, Glow plug relay, Glow plug system, Glow plug test, Glow plug/control lamp, Head restraint downward adjustm., Head restraint upward adjustment, Headlamp washer relay, Headlamp washer relay left, Headlamp washer relay right, Headlight basic setting, Heated rear window relay, Heated windshield relay, High-beam headlight, left, High-beam headlight, right, High-voltage batt. management contr.unit: System self-test, Horn relay, HV battery charging module: System self-test, Infotainment control unit: System self-test, Injector quantity adjustment, Instrument cluster system self-test, Intake camshaft advance, bank 1, Interior cent. locking button LED, Interval display service: Resetting, Lat. accel. sensor zero pos. calibration, Learn seat position, Learn VIN, LED illumination level, Left brake light indicator lamp, Left cornering light, Left reversing light, Left side marker lights, Left trailer indicator, Left-rear blinker, Licence plate light, Loudspeaker: Test, Low-beam headlight, left, Low-beam headlight, right, Lower lumbar support, Lumbar support air pump, Lumbar support drain actuator, Lumbar support engine 1: downw., Lumbar support engine 1: upwards, Lumbar support engine 2: downw., Lumbar support engine 2: upwards, Lumbar support fill actuator, Main beam assistant, Memory position 1, Memory position 2, Memory position 3, MIL Lamp, Mirror fold-in function, Mirror fold-out function, Mirror heater, Mixture adaption, Network: Hard reset, Open glove box, Operating mode indicator lamp 1, Operating mode indicator lamp 2, Operating mode indicator lamp 3, Operating mode indicator lamp 4, Oxidation catalytic converter adaption, Park distance control gong, Park Distance Control switch LED, Parking aid control unit: System self-test, Parking aid:Rear distance sensors, Parking brake service mode, Passenger door window lifter adaptation, Passenger door window lifter initialization, Passenger side seat control unit: Test, Powertrain control module: System self-test, Press.-ctrl. valve, axle 1,right, Press.-ctrl. valve, axle 2,right, Press-ctrl. valve, axle 1,left, Pressure-control valve, axle 2, left, PS air distr. flap control motor, Quiescent current control module calibration, Rain/light sensor initialization, Read AdBlue tank level values, Read injector codes, Rear air distr. flap contr. motor, Rear blower motor relay, Rear driver side window lifter motor: Adapting, Rear fog light, Rear left ABS solenoid valve, Rear left fog light, Rear left outlet valve, Rear left parking light, Rear left seat calibration, Rear left seat heating, Rear left side light/brake light, Rear lid adaptation, Rear lid basic setting, Rear lid unlocking relay, Rear passenger side window lifter motor: Adapting, Rear right ABS solenoid valve, Rear right indicator relay, Rear right outlet valve, Rear right parking light, Rear right seat calibration, Rear right seat heating, Rear right side light/brake light, Rear window washer system relay, Rear wiper relay, Rear-axle diff. lock system self-test, Rear-lid system self-test, Recirculating-air flap: fresh air, Release parking brake, Reset adaptation parameters, Reset adaption value, Reset AdBlue metering module adaptation, Reset AdBlue system data, Reset after diesel partic. filter replacement, Reset after oxidation catalyst replacement, Reset air mass meter adaptation values, Reset compressor parameters, Reset control unit, Reset EGR adaptation values, Reset EGR low-pressure valve adaption values, Reset electric fuel pump adaptation values, Reset engine oil

service life, Reset ignition cycle counter, Reset Lambda sensor adaptation values, Reset lubrication service, Reset mileage with fuel water cont. lamp ON, Reset PIN code, Reset start inhibit due to lack of AdBlue, Reset swirl flap control adaptation values, Reset throttle valve adaptation values, Reset transmission adaptation values, Reset turbocharger adaptation values, Reset VALET mode, Resetting WLAN hotspot, Retract door handle, Reverse-gear light(s), Right brake light indicator lamp, Right cornering light, Right reversing light, Right side marker lights, Right trailer indicator, Right-rear blinker, Running board service mode, Running board: Service mode activation/deactivation, Safety valve, SCR system control relay, Seat adjt./fore-and-aft forwards, Seat adjustment/backrest back, Seat adjustment/backrest forwards, Seat adjustment/fore-and-aft back, Seat adjustment/seat angle down, Seat adjustment/seat angle up, Seat adjustment/seat height down, Seat adjustment/seat height up, Seat angle adjustment button Down, Seat angle adjustment button Up, Seat angle adjustment, down, Seat angle adjustment, up, Seat cush. adj. button: To front, Seat cushion adj. button: To rear, Seat cushion adjustment, back, Seat cushion adjustment, forwards, Seat cushion down, Seat cushion up, Seat ext. adj. backward, Seat ext. adj. forward, Seat fore-and-aft adjtm. To front, Seat fore-and-aft adjust. To rear, Seat height adjustment Down, Seat height adjustment Up, Seat height switch Down, Seat height switch Up, Seat longitud.adj. button To rear, Seat longitud.adj.button To front, Seat mem.sw. seat cushion to fr., Seat memory button LED, Seat memory button SET, Seat memory indicator lamp, Seat memory position 1, Seat memory position 2, Seat memory position 3, Seat side bolster air switch, Seat side bolster vent switch, Self test seat massage unit, Side marker lamp rear left, Side marker lamp rear right, Side turn signal indicators, Socket relay, Solenoid valve 1, Solenoid valve 2, Steering angle initialization, Steering wheel angle sensor: System self-test, Sun blind Down, Sun blind Up, Sun roof adaptation, Sun roof initialization, Sun shade initialisation, Supplementary heater, Suppress mirror glare, System self-test, Tank flap locking relay, Tank flap unlocking relay, TCS isolation valve 1, TCS isolation valve 2, Teach retract towbar, Temperature flap servomotor: left, Temperature flap servomotor: right, Throttle valve actuator, Throttle valve control module, Tilt angle initialization, Tiptronic switch, Trailer control unit: System self-test, Trailer coupling service mode activation, Trailer coupling service mode deactivation, Trailer coupling: Service mode activation, Trailer coupling: Service mode deactivation, Trailer coupling: Test, Trailer power supply relay, Trailer rear fog light, Transmission control: Component test, Transportation mode, Turboch. charge air switchg.valve, Turbocharger shut-off valve, Tyre pressure monitoring system self-test, Tyre pressure programming, Tyre pressure sensor adaptation, Tyre pressure sensor adaptation, Unlock rear lid, Unlock. the top glove compartment, Upper lumbar support, Viscous fan, Voltage: ABS valves, Voltage: pump motor, Window lifter CLOSE relay, Window lifter OPEN relay, Window lifter standard initialization, Windshield washer relay, Windshield wiper relay, Write injector codes

New Mercedes Coverage

- o Added coverage for 1 new system

1 new Adjustment type special test:

Camera Calibration - Dynamic

1 new Actuation type special test:

Defogger Control



Bosch Automotive Service Solutions Inc.

28635 Mound Road

Warren, MI 48092

USA

tech@boschdiagnostics.com

855-267-2483