



**BOSCH**

# Bosch ADS Software Update – July 2019

Ver 3.8

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

Version 3.8 adds new coverage including codes, live data, special functions and tests for wide variety of manufacturers and vehicle models all the way up to 2019.

New model year combined with older model year coverage ensures the best comprehensive diagnostic coverage you need.

Software and Coverage feature details provided throughout these release notes.



## Added Coverage - Summary

- **New coverage up to 2019MY vehicles and systems**
  - GM – Read/Clear DTCs, Live Data
  - Hyundai – Read/Clear DTCs, Live Data, Special Tests
  - Kia – Read/Clear DTCs, Live Data, Special Tests
- **New coverage up to 2018MY vehicles and systems**
  - Audi – Read/Clear DTCs, Live Data, Special Tests
  - BMI/Mini – Read/Clear DTCs, Live Data, Special Tests
  - Mercedes Benz – Read/Clear DTCs, Live Data, Special Tests
  - Smart – Read/Clear DTCs, Live Data, Special Tests
  - Volkswagen – Read/Clear DTCs, Live Data, Special Tests
- **Hyundai / Kia – 91 new parameters for OBDII Mode 6**
- **ADAS** - Dynamic type forward facing Camera Calibrations for 2019MY GM, 2018MY BMW/Mini and 2019MY Kia (some models)
- **New Diagnostic Information for the following:**
  - DTC Circuit Description for 2018MY Chrysler/Jeep, Ford and GM
  - DTC Possible Causes for 2018MY Chrysler/Jeep, Ford and GM
  - Code Info (setting conditions) for 2018MY Chrysler/Jeep and Ford
  - Oil Light Reset Procedures

## New Coverage Highlights [\(Full list starts on page 4\)](#)

- **Chrysler:**
    - Over 600 new Special Test applications to Chrysler vehicles, along with over 1100 Vehicle-ecu combinations for 2019. Special Test highlights include:
      - Quick Learn functions for Transmission and Electronic Shifter applications
      - Battery Pack Pump control tests for Hybrid vehicles
      - ABS Pump, Inlet and Outlet valve tests
  - **GM:**
    - Along with DTC and Data Item support for 2019 vehicles, added 'Vehicle Direction Camera Learn' for the Frontview Camera Module.
  - **Honda/Acura:**
    - With the addition of some new variants for Honda systems, added 28 new vehicle-ecu combinations, and added a function for Brake Pad Maintenance Mode in ABS systems.
    - You will find 2019 Honda vehicles have about 75% of our targeted Special Test coverage already released with this update.
  - **Hyundai:**
    - In this update to our 2019 coverage, added 312 new vehicle-ecu combinations and over 650 Special Tests for 2018 vehicles. About 30% of these additional functions will also be in 2019 coverage as well. This Special Test coverage has a great deal of important functions including:
      - For Engine systems added many functions for Corrections, Resets, and Learn tests including:
        - Additive Correction for all O2 Sensor Heaters
        - Intake and Exhaust Cam Phaser
        - CVVT and E-CVVT tests
        - GDI injector tests
        - Oil Control Valve
        - Variable Intake Manifold
      - ABS and Electronic Parking Brake systems have many Calibrations, Resets, and Maintenance functions added including:
        - Maintenance Mode Apply and Release
        - G-Sensor Calibration
        - Longitudinal G Sensor Calibration
      - Tire Pressure Monitor functions include:
        - Sensor Registration
        - Wheel Sensor ID, Vehicle Name, and VIN Writing
      - We have also added functions for Blind Spot Detection and Auto Headlamp Levelling.
  - **Kia:**
    - In this update to our 2019 coverage, added 351 new vehicle-ecu combinations and over 600 Special Tests for 2018 vehicles. About 30% of these additional functions will also be in 2019 coverage as well. This Special Test coverage has a great deal of important functions including:
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- For ADAS, we have included Forward Facing Camera Calibrations for Multifunction Camera and Lane Departure Warning systems.
  - Engine systems have many functions added including:
    - Additive Correction for all O2 Sensor Heaters
    - Intake and Exhaust Cam Phaser
    - CVVT and E-CVVT tests
    - Waste Gate Valve
    - Oil Control Valve
    - Variable Intake Manifold
  - Transmission has a reset of Auto Trans Adaptive Values
  - ABS and Electronic Parking Brake systems have many Calibrations, Resets, and Maintenance functions added including:
    - Maintenance Mode Apply and Release
    - G-Sensor Calibration
    - Longitudinal G Sensor Calibration
  - Tire Pressure Monitor functions include:
    - Sensor Registration
    - Wheel Sensor ID, Vehicle Name, and VIN Writing
  - **Subaru:**
    - Added new coverage for the Pedestrian Alert system, and over 100 new Special Tests including:
      - Simple Roughness Monitor and VIN entry for Engines
      - Factory Reset and Impact Sensor Setup for Body Control
      - Eyesight Assist Monitor
  - **Audi:**
    - For the 2018 model year, added 13,958 new vehicle - ecu combinations. You will find our Special Test coverage targets for 2018 are about 75% complete with this update and includes over 50 new tests.
  - **BMW/Mini:**
    - For the 2018 model year, we have added 3,237 new vehicle - ecu combinations. You will find over 70 new Special Tests, and in addition, our Special Test coverage targets for 2018 are about 75% complete with this update.
    - In addition, we have added 'Forward Facing KAFA Camera Calibration for the ADAS Camera Assist (KAFAS) system
  - **Mercedes Benz:**
    - For the 2018 model year, we have added 8,044 new vehicle – ecu combinations. We have also added almost 100 new Special Tests, and on top of that, you will find coverage for Special Tests for 2018 vehicles is almost 75% complete with this version.
  - **Volkswagen:**
    - For the 2018 model year, we have added 5,392 new vehicle - ecu combinations, and over 50 new Special Tests. You will find our Special Test coverage targets for 2018 are about 75% complete with this update.
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## New Coverage Details – USA Domestic

### New Chrysler/Jeep Coverage

- Added coverage for 1,142 new vehicle-ecu combinations

#### 9 new Adjustment type special tests including:

- **Transmission/Electronic Shifter** - Quick Learn
- **ABS** - ABS Bleed Brakes
- **Tire Pressure Monitor/WCM** - Clear TPM Sensor Rolls Test Results
- **Instrument Cluster** - Tire Pressure Monitoring

#### 607 new Actuation type special tests including:

- **Engine/PCM** - Fuel Injector Control State tests
- **Hybrid** - BATTERY PACK Pump Control
- **Transmission/Electronic Shifter** - Control All Solenoids, Functional LED State
- **ABS** – Lamp tests, Inlet Valve tests, Outlet Valve tests, Pump, Recirculation Pump
- **Safety/Restraint** - Disable Passenger Airbag Lamp Request, Passenger Airbag (PAB) Status, Seatbelt Switch tests, SRS Indicator Lamp Request
- **Transfer Case** - FAD Lock Request , Rear Axle Locker Command, T-Case Service Indicator Request
- **Instrument Cluster** - Lamp tests
- **Climate (HVAC)** - A/C Request, Cabin Temperature Sensor, Compressor Current, Duct Sensor tests, Evaporator Temperature Sensor, Front Blower tests, Front Mode 1 Defrost Actuator Position, Front Mode 2 Panel Actuator Position, Main/Left Temperature Actuator Position, Recirculation Door Actuator Position, Right Temperature Actuator Position, Twilight Sensor Value
- **Body Control** - Lamp and Buzzer/Warning tests, Door Lock tests, Flash Programming Voltage Control, Window tests, Wiper/Washer tests, Headlight tests, Turn Signal tests, Diesel Fuel Heater Relay
- **Others** - tests for DRIVERS DOOR MODULE, AUDIO and RADIO, RADIO FREQUENCY HUB (TPMS), STEERING COLUMN CONTROL, TELEMATICS GATEWAY

#### Updated Diagnostic Information for the following:

- DTC Circuit Description for 2018MY
  - DTC Possible Causes for 2018MY
  - Code Info (setting conditions) for 2018MY
  - Oil Light Reset Procedures
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## New Ford Coverage

- Added coverage for 2 new vehicle-ecu combinations for HEADLAMP CONTROL

### 1 new Actuation type special test including:

- **Engine/PCM** – Converter Pressure Control

### Updated Diagnostic Information for the following:

- DTC Circuit Description for 2018MY
- DTC Possible Causes for 2018MY
- Code Info (setting conditions) for 2018MY
- Oil Light Reset Procedures

## New GM Coverage

- New coverage for 2019MY vehicles and systems
- New coverage for 2019MY Dynamic type forward facing Camera Calibrations
- Added coverage for 1,286 new systems
- Added coverage for 1,861 new vehicle-ecu combinations

### 3 new Adjustment type special tests including:

- **ADAS** - Vehicle Direction Camera Learn for FRONTVIEW CAMERA MODULE

### 4 new Actuation type special tests including:

- **Engine/PCM** – Depressurize Fuel System
- **Body Control** - I/P Illumination Lamps
- **Others** - RADIO Rearview Camera Display

### Updated Diagnostic Information for the following:

- DTC Circuit Description for 2018MY
  - DTC Possible Causes for 2018MY
  - Oil Light Reset Procedures
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## New Coverage Details – USA Asian

### New Honda Acura Coverage

- Added coverage for 28 new vehicle-ecu combinations

#### 1 new Adjustment type special test including:

- **ABS** - Brake Pad Maintenance Mode

#### 1 new Actuation type special tests including:

- **Instrument Cluster** - EPS Indicator Lamp

#### Updated Diagnostic Information for the following:

- Oil Light Reset Procedures

### New Hyundai Coverage

- New coverage for 2019MY vehicles and systems
- Added coverage for 208 new systems
- 91 new OBDII Mode 6 parameters
- Added coverage for 312 new vehicle-ecu combinations

#### 37 new Adjustment type special tests including:

- **Engine/PCM** - Additive Correction for all O2 Sensor Heaters tests, Auto Detected Configuration Reset, Multiplicative Injection Time Correction tests, PCM Auto Detection Reset, Purge Solenoid Valve Opening Additive Correction, Reset Adaptive Values, Resetting E-CVVT Values, TEC learn, Write VIN
- **Transmission** – Reset Auto T/A Values
- **ABS/Brakes** - Air Bleeding Mode, Auto Detected Configuration Reset, G Sensor Calibration, Longitudinal G Sensor Calibration(HAC/DBC Only)
- **Tire Pressure Monitor** - Tire Pressure Sensor Registration, Vehicle Name Writing, Wheel Sensor ID Writing, Write VIN
- **Transfer Case/AWD** – Clutch Learning Read, Clutch Learning Reset, Clutch Learning Writing
- **Others** – Power Steering ASP Calibration

#### 621 new Actuation type special tests including:

- **Engine/PCM** - A/C Compressor Relay, Cam Phaser Exhaust and Intake tests, EVAP tests, Fan tests, CVVT tests, ETC Motor, Fuel Pressure Regulator, Fuel Pump tests, GDI Injector tests, Ignition Coil tests, Injector tests, O2 Heater tests, Oil Control Valve tests, Variable Intake Manifold tests
- **Transmission** - Control Solenoid Valve (VFS) A, Shift Control Solenoid Valve tests, Torque Converter Clutch Solenoid Valve, Engage Both Clutch(20mm)
- **ABS/Brakes** – Lamp tests, Inlet Valve tests, Outlet Valve tests, Motor Test
- **Electric Parking Brake** - Actuator Control Apply, Actuator Control Release, EPB Status Lamp, Maintenance Mode – Apply and Release tests
- **Climate/HVAC** – Mode Selector tests, Blower Fan Motor Step tests, Compressor tests, Mix Door tests, Passenger Air Mix Door tests, Rear Air Mix Door tests
- **Body Control** - Lamp and Buzzer/Warning tests, Window tests, Door Lock tests, Wiper/Washer tests
- **Others** - tests for ASSIST DOOR MODULE, POWER SEAT MODULE, ADAPTIVE FRONT LIGHTING SYSTEM, AUTO HEADLAMP LEVELING, SMART KEY UNIT, DRIVER DOOR

MODULE, SEAT BELT REMINDER/LIGHTING, SMART JUNCTION BLOCK, INTEGRATED GATEWAY POWER CTRL, BLIND SPOT DETECTION

### New Kia Coverage

- New coverage for 2019MY vehicles and systems
- New coverage for 2019MY Dynamic type forward facing Camera Calibrations for some models
- Added coverage for 223 new systems
- Added coverage for 351 new vehicle-ecu combinations
- 91 new OBDII Mode 6 parameters

### 36 new Adjustment type special tests including:

- **Engine/PCM** - Additive Correction for all O2 Sensor Heaters tests, Auto Detected Configuration Reset, Multiplicative Injection Time Correction tests, Purge Solenoid Valve Opening Additive Correction, Reset Adaptive Values, Resetting E-CVVT Values, Write VIN
- **Transmission** – Resetting Auto Trans Adaptive Values
- **ABS/Brakes** - Air Bleeding Mode, Auto Detected Configuration Reset, G Sensor Calibration, Longitudinal G Sensor Calibration(HAC/DBC Only, Pedal Travel Sensor (PTS) Calibration, SAS CALIBRATION(CAN-ESP Only)
- **Tire Pressure Monitor** - Tire Pressure Sensor Registration, Vehicle Name Writing, Write VIN
- **Transfer Case/AWD** – Clutch Learning Read, Clutch Learning Reset, Clutch Learning Writing
- **ADAS** - Forward facing Camera Calibrations for MULTIFUNCTION CAMERA and LANE DEPARTURE WARNING SYSTEM for some models

### 586 new Actuation type special tests including:

- **Engine/PCM** - A/C Compressor Relay, EVAP tests, Fan tests, CVVT tests, ETC Motor, Fuel Pressure Regulator, Fuel Pump tests, Ignition Coil tests, Injector tests, O2 Heater tests, Oil Control Valve tests, Variable Intake Manifold tests, Waste Gate Valve (Turbo Only)
- **Transmission** - Shift Control Solenoid Valve tests, Torque Converter Clutch Solenoid Valve, Engage Both Clutch(20mm)
- **ABS/Brakes** – Lamp tests, Inlet Valve tests, Outlet Valve tests, Motor Test
- **Electric Parking Brake** - Actuator Control Apply, Actuator Control Release, EPB Status Lamp, Maintenance Mode – Apply and Release tests
- **Climate/HVAC** – Mode Selector tests, Blower Fan Motor Step tests, Compressor tests, Mix Door tests, Passenger Air Mix Door tests, Rear Air Mix Door tests
- **Body Control** - Lamp and Buzzer/Warning tests, Window tests, Door Lock tests, Wiper/Washer tests
- **Others** - tests for ASSIST DOOR MODULE, POWER SEAT MODULE, ADAPTIVE FRONT LIGHTING SYSTEM, AUTO HEADLAMP LEVELING, SMART KEY UNIT, DRIVER DOOR MODULE, SEAT BELT REMINDER/LIGHTING, SMART JUNCTION BLOCK

### New Mazda Coverage

- Added coverage for 24 new vehicle-ecu combinations

### Updated Diagnostic Information for the following:

- Oil Light Reset Procedures

### New Nissan/Infiniti Coverage

- Added coverage for 57 new vehicle-ecu combinations, for 2019 Leaf and Qashqai

### New Subaru Coverage

- New Coverage for PEDESTRIAN ALERT
- Added coverage for 4 new vehicle-ecu combinations

#### 37 new Adjustment type special tests including:

- **Engine/PCM** - Simple Roughness Monitor, VIN Entry
- **ABS** - VSC(VDC) Centering Mode
- **Climate (HVAC)** - Actuator Initialization, Compressor Auto Mode, Fresh/Recircle Air Door Auto Mode, Mode/All Flow, Mode/Heat III, ModeVent II, Release Max A/C By Mode Sw
- **Body Control** - Alarm Delay Setup, AUTO A/C ECU setting, Factory Reset, Illumination Sensor Setting, Impact Sensor Setup, Lockout Prevention, Power rear gate setting, TPMS Setting
- **Others** - POWER WINDOW tests, INFOTAINMENT tests

#### 80 new Actuation type special tests including:

- **Engine/PCM** - Coolant Circulation Valve Control, Injection Quantity Control, Injection Stop Mode tests
- **Transmission** - AWD Linear Solenoid, Line Solenoid, Rear Differential Inspection Mode
- **ABS** - ABS Sequence Control Mode, Brake Maintenance Mode, VDC Function Check Mode
- **Instrument Cluster/Meter** – Range Display tests, Lamp and Indicator tests, Gauge tests
- **Climate (HVAC)** - Air Mix Door Actuator Target Open (Driver 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
- **Body Control** - Lamp and Buzzer/Warning tests
- **Others** – tests for EYESIGHT ASSIST MONITOR, POWER WINDOW

### New Toyota/Lexus Coverage

- Added coverage for 204 new vehicle-ecu combinations

#### Updated Diagnostic Information for the following:

- Oil Light Reset Procedures
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## New Coverage Details – USA European

### New Alfa Romeo Coverage

- Added coverage for 169 new vehicle-ecu combinations

#### 1 new Adjustment type special test including:

- **Tire Pressure Monitor/WCM** - Clear TPM Sensor Rolls Test Results

#### 23 new Actuation type special tests including:

- **ABS** – Inlet Valve tests, Outlet Valve tests, Recirculation Pump
- **Body Control** - Lamp and Buzzer/Warning tests, Window tests

### New Audi Coverage

- New coverage for 2018MY vehicles and systems
- Added coverage for 788 new systems
- Added coverage for 13,958 new vehicle-ecu combinations

#### 41 new Adjustment type special test including:

- **ABS/Brakes** - ESP Road Test
- **Steering** - Steering Angle Sensor Calibration
- **Others** – CENTRAL ELECTRONICS tests

#### 14 new Actuation type special tests including:

- **Others** – tests for GATEWAY

### New BMW / Mini Coverage

- New coverage for 2018MY vehicles and systems
- New coverage for 2018MY Dynamic type forward facing Camera Calibrations
- Added coverage for 350 new systems
- Added coverage for 3,237 new vehicle-ecu combinations

#### 58 new Adjustment type special tests including:

- **Engine/PCM** - Adaption of low pressure EGR valve, Adjust Wastegate Linkage, CAS Reset, Delete Adaptation Variable Camshaft Timing Control, Diesel Particulate Filter Regeneration, Diesel Particulate Filter Register Replacement, Exhaust Gas Recirculation Valve Basic Setting, HFM adaptation reset, Idle Adjustment, Injector Quantity Adjustment, Reset Adaptation Parameters, Reset electric fuel pump adaptation values, Reset injector adaptation values, Throttle Adaptation, Throttle Valve Basic Setting
- **Hybrid** - Battery Replacement Register Aux.Batt
- **Transmission** - Reset transmission adaption values
- **Safety/Airbag** - Seat Occupancy Detection, Front Passenger
- **Steering** - Adaption Function Reset
- **Instrument Cluster** – Activate HUD, Deactivate HUD
- **ADAS** - Forward facing KAFAS Camera Calibration for CAMERA ASSIST (KAFAS)

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

- **Engine/PCM** - Diesel Engine Readiness Codes, EGR Valve Actuation, Injector (1-6) off (Engine Running Injector KILL Test)
- **Transmission** - Parking Brake Lock Test
- **Transfer Case** - Servo Motor And Clutch Actuation
- **Instrument Cluster** – Lamp/Indicator tests, Gauge tests, Instrument Cluster Self Test

**New Fiat Coverage**

- Added coverage for 98 new vehicle-ecu combinations

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

- **Tire Pressure Monitor/WCM** - Clear TPM Sensor Rolls Test Results

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

- **Engine/PCM** - Fuel Injector 1 Control State tests
- **ABS** – Inlet Valve tests, Outlet Valve tests, Recirculation Pump
- **Body Control** - Lamp and Buzzer/Warning tests, Window tests
- **Others** - tests for ENTERTAINMENT TELEMATIC, TELEMATICS GATE WAY

**Updated Diagnostic Information for the following:**

- Oil Light Reset Procedures

**New Jaguar Coverage****1 new Actuation type special tests including:**

- **Body Control** - Washer Pump State

**Updated Diagnostic Information for the following:**

- Oil Light Reset Procedures

**New Land Rover Coverage****2 new Actuation type special tests including:**

- **Climate (HVAC)** – Requested Fan Speed
- **Body Control** - Washer Pump State

**New Mercedes Benz Coverage**

- New coverage for 2018MY vehicles and systems
- Added coverage for 3,286 new systems
- Added coverage for 8,044 new vehicle-ecu combinations

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

- **Engine/PCM** - Correction Programming of Ignition, Fuel Quantity Correction, Injector Injection Quantity Adjustment
- **Transmission** - Display Of Coding Data, EEPROM Valve Identity Init, Reset reverse gear adaptations, Write EEPROM Adaptation tests
- **ABS/Brakes** - Calibration Of Component ESP Control Valves, Calibration Of Electric Parking Brake Control Unit, Reset Steering Angle Calibration
- **Safety/Airbag** - OCCUPANT CLASS MODULE Initial Startup

- **Instrument Cluster** – Assyst Plus Reinitialization, Confirmation Of General Maintenance, Oil Grade Factor, Reset General Maintenance, Transfer Of Manufacturer Default Settings
- **Climate (HVAC)** - Customer Request Coding Read, Normalization of actuator motors, Teach-In Of Actuator Motors After Actuator Motor Replacement, Workshop Coding Read
- **Others** – HEADLAMP CONTROL tests, DOOR MODULE Normalization Of Power Window

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

- **Engine/PCM** - Alternator Current Limit, Check Radiator Shutters Actuator, Coolant Fan Speed, Diverter Flap, Fuel Pump tests, O2 Heater tests
- **Instrument Cluster** - Current time, Lighting Display Test, Picture Display Test, Set Factory Defaults
- **Climate (HVAC)** - Blower Motor, Air Distribution Flap Actuator Motor, Bend Air Flap Actuator Motor, Center Vent Flap Positioning Motor, Defroster Flap Actuator Motor, Fresh Air/Recirculated Air Flap Actuator Motor, Left Blend Air Flap Actuator Motor, Right Blend Air Flap Actuator Motor, Refrigerant Compressor
- **Others** – tests for ELECTRIC SEAT modules

#### **New Smart Coverage**

- New coverage for 2018MY vehicles and systems
- Added coverage for 30 new systems
- Added coverage for 30 new vehicle-ecu combinations

#### **New Volkswagen Coverage**

- New coverage for 2018MY vehicles and systems
- Added coverage for 609 new systems
- Added coverage for 5,392 new vehicle-ecu combinations

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

- **ABS/Brakes** - ESP Road Test
- **Steering** - Steering Angle Sensor Calibration
- **Others** – CENTRAL ELECTRONICS tests

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

- **Others** – tests for GATEWAY

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