

Bosch ADS Software Update – May 2021

Ver 4.11

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

Version 4.11 update includes updates to model year 2021 vehicles as well as function additions to previous model year vehicles. More new ADAS calibrations also added. 918 new special tests and 934 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 3)

2021 Coverage added - DTC support and Bi-Directional functions

- Hyundai
- Kia

2022 Coverage added - DTC support and Bi-Directional functions

- Mitsubishi Eclipse Cross

Multiple Models and Years Coverage added - Bi-Directional functions

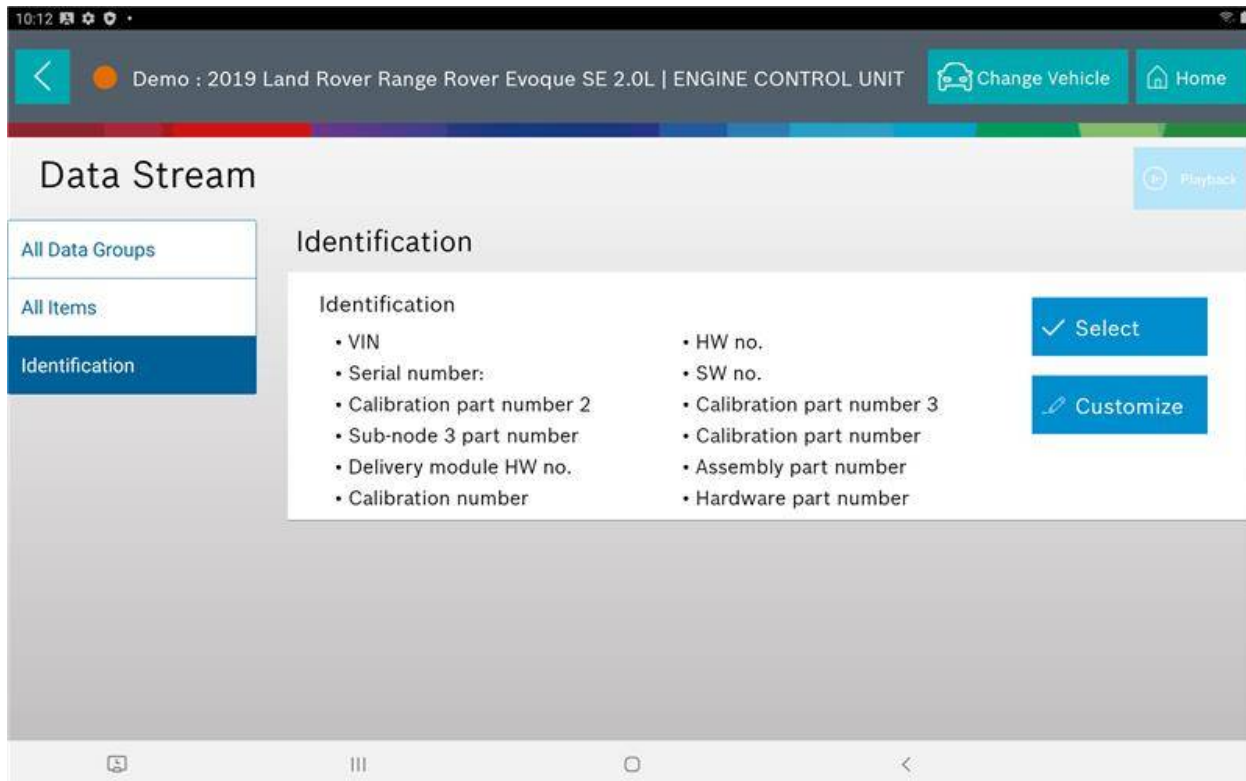
ADAS* – New ADAS calibration coverage

- GM: more 2021 model coverage for Front Camera, Surround View
- Chrysler: more 2021 model coverage for Front Camera, Front Radar, Surround View
- Toyota/Lexus: more 2021 model coverage for Surround View, Blind Spot
- Alfa Romeo: 2021 model coverage for Front Camera
- Fiat: 2021 500X coverage for Front Camera, Front Radar
- BMW: more 2021 model coverage added for Front Camera
- Honda: 2021 CRV coverage for Blind Spot
- Mitsubishi: all feature coverage added for 2022 Eclipse Cross
- Hyundai/Kia: more 2021 model coverage for Front Radar, Blind Spot

**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

- Further enhancements to partial VIN matching
 - VINs are now inspected for year & make if there is no full match found in the database
- Add support for “Identification” method for certain Euro vehicles in Data Stream



New Coverage Details – USA Domestic

New Chrysler/Jeep Coverage

- o Added coverage for 16 new systems applications

11 new Adjustment type special tests including:

Exit Shipping Mode, Tip Start Temporary Disable, Light Rain Sensor Calibration, Remote Start Temporary Disable, Update Pressure Thresholds, Auto High Beam Demo Mode Test, Headlamp Leveling, Change Country Code, Program Tire Size, Light Rain Sensor Re-adaption, Write VIN

148 new Actuation type special tests including:

Auxiliary Fuel Pump, Backup Alarm, Diesel Cabin Heater 1, Diesel Cabin Heater 4, Foot Well/Halo Lamps, Front Washer, Head Rest Relay, Left Auxiliary High Beam, Left HID Lamp, License Plate Lamp, Ram Box, Right Reverse Lamp #2, Right Side Markers, Right Signal Mirrors/Side Repeaters (BUX), Right Trailer Tow Turn/Stop Lamp, Snow Plow Left Turn Lamp, Snow Plow Park Lamps, Starter Solenoid, Vacuum Cleaner Relay Driver, View Last Successful Remote Start Event Data, Diesel Cabin Heat 1, Diesel Cabin Heater 2, Flipper Glass 2, Foot Well, Front Wiper (On/Off), Gated Park ZFII Output, Headlamp Washer, Ignition RUN/ACC 1, Inverter Enable Relay, IOD RELAY ON LSD, Left Rear Tail/Park Lamp, Left Front Park Lamp, Right Rear Fog Lamps, Secondary/Thatchum Lock Motor, Secondary/Thatchum Un-Lock Motor, Snow Plow Switch #3, Snow Plow Switch 4, Tail Gate Lock, TOPPER CHMSL, All Doors/Central Locks, BTSI Solenoid, Center High Mount Stop Lamp, Diesel Cabin Heater #2, ESM Power Supply, Front Wiper (High/Low), Ignition RUN/START, IRCM Relay Unlock Control, Left Trailer Tow Turn/Stop Lamp, Power On and Disable User Inputs, Right HID Lamp, Right Reverse Lamp, Snow Plow Switch 1, SPARE RELAY 2 LSD, View Last VTA Trigger Cause Data, Adjustable Pedal Disable Relay, CHMSL Lamp, Diesel Cabin Heat 3, Diesel Cabin Heater #1, ESCL Unlock Control, Left High Beam, Left Rear Fog Lamps, Left Rear Turn/Stop Lamp, Left Reverse Lamp, Passenger Airbag LED, Right Auxiliary High Beam, Right Day Light Lamp, Right High Beam Shutter, Right Rear Turn Lamp, SPARE LED LAMP DRIVER, SPARE RELAY 1 LSD, Sun Shade Control, Tail Gate Unlock, Bed Lamp, Dedicated DRL Lamp Right, Front Off Road Camera Washer, Horn, Left Air Catcher LED, Left Signature Lamp, Read VIN, Right Air Catcher LED, Right Front Turn Lamp, Right Rear Tail/Park Lamp, Snow Plow Right Turn Lamp, Snow Plow Switch #2, Snow Plow Switch 2, Trailer Tail Lamp Relay, Vacuum Cleaner Power Saver Indicator, Diesel Fuel Heater Relay, Front/Rear Washer, Gated Park ZFII Output Control, Inverter Status Indicator, Left Day Light Lamp, Left Rear Turn Lamp, Left Reartail/Park Lamp, Left Reverse Lamp 2, Left Reverse Lamp State, Left Side Markers, Rear Wiper, Right Front Fog Lamps, Right Front Park Lamp, Right High Beam, Right Rear Turn/Stop Lamp, Right RearTail/Park Lamp, RT-LT Sidemarkers/RT-LT Applique Parklamps, Starter Solenoid High, Truck Bed Lighting Leds, Truck Cargo Lamps, Unlock 2/Passenger Locks, View Remote Start Abort Data, VTA Indicator LED, Courtesy Lamps, Dedicated DRL Lamp Left, Diesel Cabin Heat 2, DRL, Ignition Run, Ignition RUN/ACC 2, IRCM Heater, Left Front Fog Lamps, Left Front Turn Lamp, Left High Beam Shutter, Left Low Beam, Power Mirror Feed Relay Control, Right Reverse Lamp 2, Right Reverse Lamp State, Snow Plow Switch #4, Starter Solenoid (High), Swing Gate Unlock, Trailer BU Lamps, Trunk/Flipper Glass Release Motor, UGDO Power Supply, Unlock 1/Driver Lock, Unlock Run -Start, View Remote Start Inhibit Data, WK Head Rest Relay, Baggage Lamps, Center Stop Lamp, Convenience/Reading Lamp, Diesel Cabin Heater #3, Diesel Cabin Heater 3, Left Rear Tail/Park Lamp, Left Signal Mirrors/Side Repeaters (BUX), Police Passenger Un-Lock Motor, Right Low Beam, Right Signature Lamp, Snow Plow Switch #1, Snow Plow Switch 3, Swing Gate Lock, Unlock RUN-START

New Ford Coverage

- o Added coverage for 21 new system applications

4 new Adjustment type special tests including:

Programmable Module Installation - SODR, Programmable Module Installation CCM, Diesel Particulate Filter Regeneration, PMI Manual Configuration – SODR

7 new Actuation type special tests including:

Rear HVAC Mode Control Input, Engine Running Fuel Injector Control, Vaporizer Glow Plug Relay State - Commanded, Rear Blower Control, On Demand Test, Evaporative System Leak Check, Lamp Control

New GM Coverage

- o Added coverage for 307 new systems

53 new Adjustment type special tests including:

AWD Disabled-by-Malfunction Counter Reset, Clear Driver Window Learned Values, Longitudinal Acceleration Sensor Learn, Range Actuator Correlation Learn, Reset History Buffer, Surround View Camera Calibration, Transmission Adaptive Pressure Reset, Transmission Clutch 3 Volume Learn, Backup Battery Timer Reset, Glow Plug Learn, Rear Differential Hydraulic System Service Bleed, Timing Belt Life Reset, HVAC Actuators Learn, Reset PTO Inhibit and Disengage History, Steering Wheel Angle Sensor Learn, Transmission Clutch 4 Return Spring Learn, Transmission Clutch 4 Volume Learn, Catalyst, Clear Left Rear Window Learned Values, Passenger Presence Sensor Learn, Range Actuator Learn, Transmission Clutch 2 Return Spring Learn, Driver Information Center Options, Liftgate Maximum Open Position Learn, Transmission Clutch 2 Volume Learn, Transmission Clutch 3 Return Spring Learn, WLAN Password Reset, Adaptive Pressure Control Learn, Adjustable Pedal Calibration, Battery Sensor Module Learn, Clear Right Rear Window Learned Values, Clear Side Object Detection Disable History, Fuel Pump Trim Reset, Park Brake Cable Replacement Procedure, Parking Assist Sensor Learn, Reductant Injector Reset, Steering Wheel Angle Sensor Reset, Transmission Clutch 5 Return Spring Learn, Transmission Clutch 5 Volume Learn, Transmission Service Fast Learn, CAN Bus Configuration Learn, Exhaust Flow Control Valve Learn, HVAC Afterblow Configuration, PTO Engine Shutdown, Tire Pressure Reset, Clear Disable History Data, Clear Passenger Window Learned Values, Gear Position Sensor Learn, Hands-Free Liftgate Sensor Control Module Calibration, HO2S Learned Values Reset, License Compliance Materials Download Error Counter Reset, Park Brake Calibration, Transmission Clutch 1 Volume Learn

308 new Actuation type special tests including:

14V Power Module Setpoint, 4WD High Indicator, Accessory/Retained Accessory Power Relay, Center High Mounted Stop Lamp, Cylinder 1, Cylinder 2, Cylinder 4 (deactivation), Cylinder 6, Driver Information Center Segments, Engine Mount Actuator Output 1, Exhaust CMP Actuator Bank 2, Exhaust CMP Actuator Sol. Bank 2, Fan Low, Heater Core Pump, HO2S Heater Bank 2 Sensor 1, Left Rear Seat Heating Indicator, Left Rear Turn Signal/Brake Lamp, Left Trailer Turn Signal/Stop Lamp Command, License Plate Lamps, Passenger Window Motor, Pressure Control Solenoid Valve 3, Pressure Control Solenoid Valve 6, Rear Temperature Door Motor Direction, Run/Start Power Mode Indicator, Seat Back Side Bolster Movement, Seat Cushion Side Bolster Movement, Shock Absorber Front Left, Transmission Control Solenoid Valve 1 Current, Transmission Control Solenoid Valve 2, Transmission Control Solenoid Valve 4 Current, Transmission Control Solenoid Valve 6, Transmission Control Solenoid Valve 8, Vehicle Level

Control Compressor Relay, Windshield Wiper Relay, Accent Lighting 2, Brake Transmission Shift Interlock Solenoid Actuator, Cylinder 6 (deactivation), Cylinder 8, Driver Mirror Fold, Driver Mirror Movement, Driver Seat Cushion Rear Vertical Movement, Engage Front Axle, Engine Serial Number, HO2S Heater Bank 1 Sensor 2, Idle Spark, Incandescent Dimming, Intake Cam Position Actuator Park Lock Valve Bank 1, LED Backlight Dimming, Left Front Park Lamp, Left Rear Park Lamp, Left Side Object Detection Indicator, Left Tail Lamp, Low Beam Lamps, Passenger Mirror Movement, Passenger Seat Cushion Heating, PC Solenoid 3, Rear Axle Differential Lock High Control Relay, Rear Axle Differential Lock Indicator, Rear Defog Request, Rear Fog Lamp(s) Relay, Rear Washer Relay, Right Exterior Flood Lamp, Right Front Turn Signal Lamp, Right High Beam, Right Park Lamps, Right Rear Turn Signal/Brake Lamp, Right Trailer Tail Lamp, Right Turn Signal, Seat Lumbar Support Vertical Movement, Steering Column Telescope In, TCC Pressure Control Solenoid Valve, TCC Pressure Control Solenoid Valve - Dynamic Test, TCC Pressure Control Solenoid Valve - Static Test, Trailer Backup Lamps, Transfer Case Clutch Engagement, Transmission Control Solenoid Valve 10, Trunk Lid Unlatch, Windshield Washer Relay, Auxiliary Transmission Pump Relay, Brake Transmission Shift Interlock Indicator, Door Courtesy Lamp State, Driver Seat Cushion Heating, Driver Seat Cushion Left Rear Haptic Movement, Engine Coolant Fill, Engine Coolant Thermostat Heater and Cooling Fan, Front Fog Lamps, Hazard Lamps Switch Backlight, HO2S Heater Bank 2 Sensor 2, Info Display Pattern 1 Check, Instrument Cluster Dimming, Intake Cam Position Actuator Park Lock Valve Bank 2, Left Auxiliary Daytime Running Lamps, Left Brake Lamp, Left Exterior Flood Lamp, Left Rear Brake/Park Lamp, Left Trailer Tail Lamp, Lift Gate Module Open/Close Test, Next Available Slot, Passenger Seat Cushion Rear Vertical Movement, Phone Call Test, Pressure Control Solenoid Valve 2, Range Actuator, Rear Defrost, Right Front Corner, Right Low Beam, Right Rear Turn Signal Lamp, Right Rear Turn Signal/Stop Lamp, Seat Back Horizontal Movement, Shock Absorber Rear Left, Steering Column Telescope Out, Steering Column Tilt Down, Steering Column Tilt Up, TCC Solenoid Valve, Transmission Control Solenoid Valve 1, Transmission Control Solenoid Valve 3, Transmission Control Solenoid Valve 5 Current, Transmission Control Solenoid Valve 7 Current, Transmission Control Solenoid Valve 8 Current, Transport Mode, 4WD Low Indicator, AC Switch, Accessory Power Mode Indicator, Air Recirculation Door Motor Direction, AIR System, All Indicators, Backup Lamps, Cylinder 7, Cylinder 7 (deactivation), Cylinder Deactivation System, Driver Seat Back Side Bolster Movement, Driver Seat Cushion Left Front Haptic Movement, Engine Mount Actuator Output 2, Engine Speed, EVAP Purge Solenoid Valve, Fan High, Front Axle Differential Lock Low Control Relay, Hands-Free Sensor Lamp Command, High Beams, HO2S Bank 1 Sensor 1 - Heater, IAC Position, Ignition On/Start Switch Circuit, Illuminate All Indicators, Left Cornering Lamp, Left Daytime Running Lamp, Left Front Corner, Left Rear Corner, Line PC Solenoid, Line Pressure Control Solenoid Valve, Lumbar Forward/Backward, Passenger Seat - Blower Command, PC Solenoid 2, Power Take-off Relay, Pressure Control Solenoid Valve 5, Proactive Alerts, PTO Operation Mode, Range Actuator Lock, Read LIN Bus Device ID Information, Rear Axle Differential Lock Low Control Relay, Right Daytime Running Lamp, Right Front Park Lamp/Daytime Running Lamp, Right Rear Seat Heating Indicator, Shift Solenoid Valve, Shift Solenoid Valve 1, Stop Lamp, Transmission Control Solenoid Valve 3 Current, Transmission Control Solenoid Valve 4, Vehicle Level Control Exhaust Valve, Windshield Wiper Motor Relay, 2WD High Indicator, ABS Pump Motor, AC Compressor Solenoid Valve, Accessory Power Relay, ATC Range, Auxiliary Ignition Run Relay, Auxiliary Transmission Fluid Pump, Child Security Lock Motors, Cylinder 1 (Deactivation), Cylinder 4, Cylinder 5, Cylinder Deactivation Exhaust Flow Control Valve, Cylinder Deactivation Performance Test, Door Dead Lock Lock/Unlock, Driver Window Motor, Evaporative System, Exhaust CMP Actuator Bank 1, Exhaust Flow Control Valve System, Inadvertent Load, Intake Cam Position Actuator Park Lock B2, Left Rear Turn Signal/Stop Lamp, Left Trailer Turn Signal Lamp, Liftgate Window Unlatch, Pickup Bed Cargo Lamp, Rear Body Closure Unlatch, Right Auxiliary Tail and Stop Lamp, Right Brake Lamp, Right Cornering Lamp, Right Dedicated Daytime Running

Lamp, Right Low Beam/Daytime Running Lamp, Right Rear Corner, Right Side Object Detection Indicator, Right Temperature Door Position, Seat Belt Retractor Motor, Seat Forward/Backward, Seat Lumbar Support Horizontal Movement, Trailer Fog Lamps, Transmission Control Solenoid Valve 2 Current, Transmission Control Solenoid Valve 6 Current, Transmission Cooling Fan Duty Cycle, Active Grill Air Shutter 2, Auto. Indicator - 4WD, Auxiliary Blower Motor Speed Command, Cylinder 3, Driver Seat Back Horizontal Movement, Driver Seat Cushion Front Vertical Movement, Engine Coolant Thermostat Heater, Generator Regulator Setpoint, Head-Up Display Dimming Level, Head-Up Display Pattern Check, Hybrid/EV Battery DC Charging Positive Contactor, Hybrid/EV Battery Pack Precharge Contactor Command, Indicator Dimming, Instrument Cluster Gauge Sweep, Intake Cam Position Actuator Park Lock B1, Intake Camshaft Pos Actuator Park Lock Solenoid B2, Left Front Park Lamp/Daytime Running Lamp, Left Low Beam, Left Rear Turn Signal Lamp, Left Rear Window Motor, Left Temperature Door Motor Direction, Left Turn Signal, Low Temperature Loop Coolant Pump, Park Brake Cable Service Release, Passenger Seat Back Horizontal Movement, Pressure Control Solenoid Valve 1, Right Rear Auxiliary Turn Signal Lamp, Right Rear Window Motor, Right Temperature Door Motor Direction, Run Crank Relay, Shift Solenoid Valve 2, Shock Absorber Front Right, Shock Absorber Rear Right, Suspension Position Sensor Trim Height, Trailer Park Lamps, Transfer Case Clutch Identifier, Transmission Control Solenoid Valve 7, Transmission Park Valve Lock Solenoid Actuator, Trunk Lamp, Window Lockout Switch Indicator, Accent Lighting 1, Active Grill Air Shutter 1, All Door Lock Unlock, ATC Neutral Indicator, Discharge Stop/Start Capacitor, Driver Seat Cushion Right Rear Haptic Movement, Front Axle Differential Lock High Control Relay, Front Axle Differential Lock Indicator, Headlamp Washer Relay, HO2S Bank 2 Sensor 1 - Heater, Intake Camshaft Pos Actuator Park Lock Solenoid B1, Left Auxiliary Tail and Stop Lamp, Left Dedicated Daytime Running Lamp, Left Park Lamps, Left Rear Auxiliary Turn Signal Lamp, Parking Assist Switch LED, PC Solenoid 5, Pressure Control Solenoid Valve 4, Rear Differential Clutch Solenoid Valve, Right Auxiliary Daytime Running Lamps, Right Fog Lamp, Right Rear Park Lamp, Seat Cushion Rear Vertical Movement, Shift Transmission Gear, Trailer Stop Lamps, Transmission Control Solenoid Valve 5, Transmission Control Solenoid Valve 9, Vehicle Health Data Upload, Activate Rear Park Brake Service Position, Backlight Dimming, Center Brake Lamp, Child Security Lock/Window Lockout Switch Indicator, CMP Actuator Solenoid, Deactivate Rear Park Brake Service Position, Driver Alert, Driver Seat - Blower Command, Driver Seat Cushion Right Front Haptic Movement, Driver Seat Horizontal Movement, HO2S Bank 1 Sensor 2 - Heater, Left Fog Lamp, Left Front Turn Signal Lamp, Left Low Beam/Daytime Running Lamp, Lumbar Up/Down, Mirror Folding Control, Outside Rear View Mirror Courtesy Lamp, Park Brake Cable Service Apply, Passenger Mirror Fold, Passenger Seat Belt Tension Sensor, Passenger Seat Cushion Front Vertical Movement, PC Solenoid 4, Rear Mode Door Motor Position, Rear Upper Seat Back, Right Front Park Lamp, Right Rear Brake/Park Lamp, Right Tail Lamp, Right Trailer Turn Signal Lamp, Seat Cushion Front Vertical Movement, Seat Horizontal Movement, Stop/Start Select Switch Indicator, Transfer Case Range

New Coverage Details – USA Asian

New Honda/Acura Coverage

- o Added coverage for 8 new system applications

2 new Adjustment type special tests including:

Left BSI Radar Operation Check, Right BSI Radar Operation Check

20 new Actuation type special tests including:

BSI System Fail, Turn On Right Side Indicator, Clean Right Side Radar, CTM System Fail, Flash Left Side Indicator, Turn On Right Side Alert, BSI System Status, Flash Right Side Indicator, Left BSI Radar Unavailable, Right BSI Radar Unavailable, BSI Buzzer Status, Clean Left Side Radar, CTM System Status, Left Side Indicator, Right Side Indicator, BSI Indicator On, CTM Buzzer Status, Turn On Left Side Alert, BSI Fail Lamp, BSI Unavailable

New Hyundai Coverage

- o Added coverage for 102 new system applications

1 new Adjustment type special tests including:

Diesel Particulate Filter Regeneration

71 new Actuation type special tests including:

A/C Compressor Relay, Dedicated DRL Output (Option), Fuel Open Loop, Hazard Indicator, Indicator ALL ON, Steering Warmer Switch Indicator Output, Stop Lamp Left/Right/HMSL Output (Option), Turbo waste gate(WGT) valve, Activation Switch LED, Dedicated DRL Left Output, Door Unlock Relay, Fan PWM, Front Fog Lamp Left Output, Head Lamp High Left Output, Indicator ALL OFF, Stop Lamp Left, Burglar Horn Relay, Fuel Pump Relay(1st stage), Head Lamp High Output, High Mounted Stop Lamp Output, Injector Disable-Cylinder 2, Tailgate/Trunk Release Relay, Variable Intake Manifold 1 (Option), All LEDs, Canister Shut Off Valve Toggling(OBD-2 Only), Front Fog Lamp Right Output, Steering Warmer Output, Turn LH Output, Turn RH Output, Dedicated DRL Right Output, LampLoad AutoCut IPS Output, Luggage Lamp, Norminal Idle Speed Offset, Oil Change Warning Lamp(Option), Oil Control Valve - Exhaust Bank 1(Option), Over speed indicator(Option), Stop Lamp Right, Turn Signal Lamp Rear Left Output, Turn Signal Lamp Rear Right Output, Canister Purge Valve, Evaporative System Leak Check, Front Glass Heated Relay Output, High Pressure Fuel Pump Control, Injector Disable-Cylinder 1, ISG Lamp, LongTermLoad Cut Relay Output, ShortTermLoad Cut Relay/IPS Output, Turn Signal Lamp Front Left Output, Door Lock Relay, Front Fog Lamp Output, Fuel Pump Control(1st stage), Head Lamp High Right Output, Head Lamp Low Output, Head Lamp Low Right Output, Ignition Coil Enable/Disable-#4, Injector Disable-Cylinder 4, Mirror LED Left, Mirror LED Right, Room Lamp Output, Turn Signal Lamp Front Right Output, All LEDs On, Back Up Lamp, Fan Motor Control-High Speed, Fan Motor Control-Low Speed, FPCM pressure control, Head Lamp Low Left Output, Ignition Coil Enable/Disable-#1, Ignition Coil Enable/Disable-#3, Injector Disable-Cylinder 3, Oil Control Valve - Intake Bank1, Rear Defogger Relay

New Kia Coverage

- o Added coverage for 307 new system applications

5 new Adjustment type special tests including:

Diesel Particulate Filter Regeneration, Reference Point Calibration - Dynamic, BSD Radar Calibration, Reference Point Calibration - Static, WCT Reprogram

141 new Actuation type special tests including:

A/C Compressor Relay, Canister Purge Valve, Compressor On, Cooling Fan PWM, Dedicated DRL Right Output, Door Lock Relay, Driver Air Mix Door-0%, Engine Check Lamp(MIL), Evaporative System Leak Check, Front Glass Heated Relay Output, Head Lamp High Right Output, Injector Disable-Cylinder 1, Injector Disable-Cylinder 4, LongTermLoad Cut Relay Output, Passenger Air Mix Door-0%, Rear Bumper Antenna Output (Power and GND), Right Mirror LED Blinking, Start Inhibit Relay, VESS Sound Play (5 Sec), BSD Switch LED ON/OFF, Driver Side Outside Handle Antenna Output (Power and GND), Electronic Waste Gate Valve (Turbo Only), Electronically Controlled Water Pump(CWP), Exhaust Flap(EF), Fan Motor Control-High Speed, Fan PWM, Head Lamp Low Left Output, Ignition Coil Enable/Disable-#3, LampLoad AutoCut IPS Output, Left Mirror LED ON, Luggage Lamp, Mirror LED Right State, O2 Heater Rear (B1/S2), Oil Change Warning Lamp(Optional), Over speed indicator(Optional), Steering Warmer Switch Indicator Output, Stop Lamp Left/Right/HMSL Output (Option), Stop Lamp Right, Charging Status LED (Green) On, Driver Air Mix Door-50%, Driver Mode Door-Floor, Ignition Coil Enable/Disable-#4, Mirror LED Left, Passenger Air Mix Door-100%, Passenger Air Mix Door-50%, Power Supply to the IGN1/STARTER Relay of Main MCU, Room Lamp Output, Turn Signal Lamp Front Left Output, VCM Motor (Option), Wiper High-Speed Relay [Wiper High RLY With Wiper Power RLY], All LEDs, All LEDs On, ATM Solenoid, Auto Light Power, Back Up Lamp, Canister Shut Off Valve Clocked(OBD-2 Only), Canister Shut Off Valve Toggling(OBD-2 Only), Compressor Off, CVVT Intake, ETC Motor, Front Fog Lamp Right Output, High Mounted Stop Lamp Output, Ignition Coil Enable/Disable-#1, Intake Door - Recirc, Interior Antenna #2 Output (Power and GND), Norminal Idle Speed Offset, O2 Heater Front (B2/S1), Oil Control Valve - Intake Bank1, Power Supply to the IGN1 Relay of Main MCU, Rear Seat Belt Left Indicator (Option), Turn LH Output, Turn Signal Lamp Rear Left Output, VESS Sound Play (Until Stop Command), Burglar Horn Relay, Dedicated DRL Left Output, Driver Air Mix Door-100%, Front Fog Lamp Output, Fuel Pressure Ragulator (GDI Only), Fuel Pump Control(1st stage), Head Lamp High Output, Head Lamp Low Output, Head Lamp Low Right Output, Indicator ALL OFF, Mirror LED Right, O2 Heater Front (B1/S1), PAS Indicator (RPAS Off Indicator), Rear Defogger Relay, Rear Seat Belt Right Indicator (Option), TCI Bypass Valve(Turbo Only), Turn RH Output, Variable Intake Manifold 1 (Option), Charging Status LED (Yellow) On, Fan Motor Control-Low Speed, FPCM pressure control, Fuel Pump Relay(1st stage), Hazard Indicator, Indicator ALL ON, Injector Disable-Cylinder 3, Key Hole Illumination (Manual Key Type), Left Mirror LED Blinking, Mirror Folding Operation (Option), Tailgate/Trunk Release Relay, Turbo waste gate(WGT) valve, Turn Signal Lamp Front Right Output, Wiper Low-Speed Relay [Wiper Low RLY With Wiper Power RLY], Assistant Side Outside Handle Antenna Output (Power and GND), Canister Shut Off Valve(OBD-2 Only), CVVT Exhaust, Dedicated DRL Output (Option), Head Lamp High Left Output, Heated Washer Nozzle Output, Ignition Coil Enable/Disable-#2, Intake Door - Fresh, Interior Antenna #3 (Trunk Antenna : Sedan Type) Output (Power, Main Relay, Oil Control Valve - Exhaust Bank 1(Optional), Power Supply to the ACC Relay of Main MCU, Power Supply to the IGN1/IGN2 Relay of Main MCU, Rear Wiper Relay, Right Mirror LED ON, ShortTermLoad Cut Relay/IPS Output, SSB illumination Output (Power and GND), Steering Warmer Output, Stop Lamp Left, Activation Switch LED, Assist Seat Belt Indicator (Option), Cruise Control Main

Lamp(Optional), Cruise Control SET Lamp(Optional), Door Unlock Relay, Driver Mode Door-Vent, External Buzzer Output, Front Fog Lamp Left Output, Fuel Open Loop, Fuel Pump Relay, High Pressure Fuel Pump Control, Injector Disable-Cylinder 2, ISG Lamp, Mirror LED Left State, Mirror Unfolding Operation (Optional), Rear Seat Belt Center Indicator (Optional), Turn Signal Lamp Rear Right Output

New Mazda Coverage

1 new Actuation type special tests including:

Engine Running Fuel Injector Control

New Mitsubishi Coverage

- o Added coverage for 15 new system applications

2 new Adjustment type special tests including:

Coding Information & Copy, Learning

21 new Actuation type special tests including:

Chassis No VIN Information, VVT Oil Control Valve, EVAP Emission Ventilation SOL, Fuel Pump O, Oil Feeder Control Valve O, Injector Stop, Cooling Fan O, Fuel Pump, Ignition Timing 5 BTDC, ECU Information, Evaporative Emission Ventilation Solenoid O, Radiator Fan Low, A/C Relay, Engine Running Injector Kill Test, PWM Radiator Fan, Radiator Fan High, Waste Gate Solenoid Valve, A/C Compressor Relay O, EVAP Function Test, EVAP Emission Purge SOL Valve, Evaporative Emission Purge Solenoid

New Toyota/Lexus Coverage

- o Added coverage for 15 new system applications

17 new Adjustment type special tests including:

BSM Mirror Indicator Brightness, RCTA Function, PCS Operation State Retention Setting, BSM Master Radar Sensor Adjustment, Prohibition Flag of FHL Function, RCTAB Function, PCS Alarm Activation Distance Retention Setting 1, BSM Approaching Vehicle Detection Timing Setting, Diesel Particulate Filter Regeneration, Recog ECU H Temp Hist Reset, BSM Buzzer Volume Adjust, BSM Master Abnormal History, Control Mode, History Clear, PCS Alarm Activation Distance Retention Setting 3, PCS Warning Sensitivity Retention Setting, BSM Slave Abnormal History

11 new Actuation type special tests including:

Face Direction Check, PCS Crash Alarm Buzzer, Radar Cruise Approach Alarm Buzzer, Radar Cruise Stop Buzzer, Evaporative System Leak Check, PCS Approach Alarm Buzzer, PCS Collision Alarm Buzzer, Infrared Signal Status, LKA Lane Out Alarm Buzzer, LDA Buzzer, Selftest

New Coverage Details – USA European

New Alpha Romeo Coverage

- o Added coverage for 7 new system applications

2 new Adjustment type special tests including:

Target Calibration, Service Single Pole Calibration

1 new Actuation type special tests including:

Buzzer Control

New BMW/Mini Coverage

- o Added coverage for 12 new system applications

24 new Adjustment type special tests including:

Rain Sensor Initialization, Reset Control Unit, Window lifter motors: Adapting, Front Passenger's Door Power Window Regulator Initialisation, Assembly Position Of Window Lifters, Steering column adjustment initialisation, Central electronics control unit reset, Initialization Of Both Rear Window Lifters, Rain Light Sensor Initialization, Reset Starter Lock, Window Lifter Standard Initialization, Slide/Tilt Sunroof Initialization, Windshield Wiper Service Position Adjustment, Ambient lighting adaptation, Driver's Door Power Window Regulator Initialisation, Ambient lighting: Automatic addressing, Disassembly position of window lifters, Electrical Steering Column Adjustment Standardization, Exterior mirror test, Front Driver/Pass Door Power Window Regulator Initialization, KAFAS Camera Calibration, Keyless entry: Deactivate/activate, Rear Driver/Pass Side Door Pwr Window Regulator Initialization, Steering column adjustment adaptation

15 new Actuation type special tests including:

Front Door Power Windows Regulator Initialisation, Rear Driver and Passenger Window Regulator Initialization, Rear Driver Side Power Window Close, Rear Driver Side Power Window Open, Rear Passenger Side Power Window Close, Check Antennas, Exterior mirror: System self-test, Rear Passenger's Door Power Window Regulator Initialisation, Windscreen Washer Pump, Wiper Service Position, Headlight Washer System, Rear Driver's Door Power Window Regulator Initialisation, Rear Passenger Side Power Window Open, Unlock All Doors, Lock All Doors

New Fiat Coverage

- o Added coverage for 8 new system applications

4 new Adjustment type special tests including:

Service Single Pole Calibration, Driver Assist System Calibration, ACC Sensor Alignment Dynamic, Camera Calibration

7 new Actuation type special tests including:

Power On and Disable User Inputs, Safety Indication Forward Collision Warning, Safety Indication Adaptive Cruise Control, Safety Indication Normal Cruise Control, Safety indication, Buzzer Control, Control chime

New Jaguar/Land Rover Coverage

- o Added coverage for 21 new system applications

2 new Adjustment type special tests including:

Diesel Particulate Filter Regeneration, Camera Calibration

1 new Actuation type special tests including:

Evaporative System Leak Check

New Mercedes Benz Coverage

- o Added coverage for 60 new system applications

9 new Adjustment type special tests including:

Camera Calibration, Reset Vacuum Pump Actuation Counter, Reset Compressor Actuation History, Seat Inclination Adjustment, Reset Of Compressor Operating Time, 360 Camera Calibration - All Sides - Dynamic, Move To Calibrated Vehicle Level, Suspension Level Calibration, Level Calibration

7 new Actuation type special tests including:

Left Front Axle Damping Valve Unit, Release Pressure In Suspension Strut - Left Front, Right Front NR Valve, Fill Suspension Strut - Left Rear, Release Pressure In Suspension Strut - Left Rear, Fill Suspension Strut - Left Front, Low Temperature Circuit Switchover Valve, Release Pressure In Suspension Strut - Right Front, Release Pressure In Suspension Strut - Right Rear, Right Front Axle Damping Valve Unit, Right Rear NR Valve, Terminal 87 Status, Backrest Inclination Adjustment Test, Seat Height Adjustment Test, Left Front NR Valve, Left Rear NR Valve, Fill Suspension Strut - Right Front, Left Rear Axle Damping Valve Unit, Airmatic Pressure Relief Valve, Fill Suspension Strut - Right Rear, Low Temperature Circuit Circulation Pump 1, Seat Forward/Backward Adjustment Motor, Airmatic Relay, Right Rear Axle Damping Valve Unit, Seat Cushion Length Adjustment Motor

New Volkswagen Coverage

1 new Adjustment type special tests including:

Diesel Particulate Filter Regeneration

7 new Actuation type special tests including:

Evaporative System Leak Check

New Volvo Coverage

2 new Adjustment type special tests including:

Calibration of SODR, Calibration of SODL

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