

# Version 6.1

## Release Notes Contents

- [Overview](#)
- [New Vehicle Coverage Highlights](#)
- [New Vehicle Coverage - Detail](#)

## Overview

Version 6.1 update includes model year **2024 & 2023** vehicle coverage and additional **ADAS** calibrations.

3,468 new special tests & 1,871 new system applications included in this update.

Software and coverage feature details provided in these release notes.

## ***New Coverage Highlights (Coverage details start on Page 2)***

### **Model Additions:**

- **Audi** – MY2024 A3, A3 Quattro, A4 allroad, A4 Quattro, A5 Quattro, A5 Sportback, A6 allroad, A6 Quattro, A7 Sportback, A8 Quattro, e-tron GT, Q3, Q4 e-tron, Q4 e-tron Sportback, Q5, Q5 PHEV, Q5 Sportback, Q7, Q8, Q8 e-tron Sportback, RS e-tron GT, RS Q8, RS3, RS5, RS5 Sportback, RS6 Avant, RS7 Sportback, S3, S4, S5 , S5 Sportback, S6, S6 Sportback, S8, SQ5, SQ5 Sportback, SQ7, SQ8, SQ8 e-tron, SQ8 e-tron Sportback
- **Jaguar\*** – MY2023-MY2024 E-Pace, F-Pace, F-Type, I-Pace, XF
- **Land Rover\*** – MY2013-MY2024 Defender 110, Defender130, Defender 90, Discovery, Discovery Sport, Range Rover, Range Rover Evoque, Range Rover Sport, Range Rover Velar
- **Porsche** – MY2024 718 Boxster, 718 Cayman, 718 Spyder, 911, Macan, Panamera, Taycan
- **Volkswagen** – MY2024 Arteon, Atlas, Atlas Cross Sport, Golf R, GTI, ID.4, Jetta, Taos, Tiguan
- **Special Test Additions** – multiple brands
- **ADAS Coverage:**

#### **MY2012-2024 Additions:**

- **Audi** – MY2024 A3, A3 Quattro, A4 allroad, A4 Quattro, A5 Quattro, A5 Sportback, A6 allroad, A6 Quattro, A7 Sportback, A8 Quattro, e-tron GT, Q3, Q4 e-tron, Q4 e-tron Sportback, Q5, Q5 PHEV, Q5 Sportback, Q7, Q8, Q8 e-tron Sportback, RS e-tron GT, RS Q8, RS3, RS5, RS5 Sportback, RS6 Avant, RS7 Sportback, S3, S4, S5 , S5 Sportback, S6, S6 Sportback, S8, SQ5, SQ5 Sportback, SQ7, SQ8, SQ8 e-tron, SQ8 e-tron Sportback
- **GMC** – MY2022-2024 Hummer EV, Hummer EV Pickup, Hummer EV SUV
- **Infiniti** - MY2024 QX80
- **Lexus** - MY2024 RZ300e, RZ450e, TX350, TX500h, TX550h+
- **Porsche** – MY2022-2024 Cayenne, Panamera
- **Subaru** – MY2024 Solterra, WRX
- **Volkswagen** – MY2024 Arteon, Atlas, Atlas Cross Sport, Golf R, GTI, ID.4, Jetta, Taos, Tiguan

\*ADS 525X/625X only

## *New Coverage – USA Domestic*

### **Ford/Lincoln Coverage**

- Added coverage for 538 new system applications

#### **3 new Adjustment type special tests:**

Clear Transmission Adaptive Tables, Engine Oil Life Reset, Reset KAM

#### **334 new Actuation type special tests:**

# Button, % Of Total Fuel Mass To Be Delivered By Direct Inj -Commanded, (Cruise) Resume Switch, (Cruise) Set- Switch, (Cruise) Set+ Switch, (EVAP) Vapor Blocking Valve, \* Button, 4WD-AWD Front Axle Disconnect - Clutch Commanded State, 4WD-AWD Front Axle Disconnect - High Level Strategy Commanded, 4WD-AWD Power Transfer Unit - Clutch Commanded State, 4WD-AWD Power Transfer Unit - High Level Strategy Commanded, 4WD-AWD Rear Differential Unit Actuator -A- Requested Torque, 4WD-AWD Transfer Case Actuator -A- Requested Torque, 4WD-AWD Transfer Case Motor Position Request, ABS Valve Power Supply, ABS Warning Lamp, A-C Recirculating Servo Position Status, Active Air Dam Position - Commanded, Active Grille Air Shutter -A- Position Commanded, Active Grille Air Shutter -B- Position Commanded, Actuator Supply Voltage -B- Control State, Adaptive Cruise Distance Gap (-) Switch, Adaptive Cruise Distance Gap (+) Switch, AHD (Auto Headlamp Dipped), Air Conditioning Clutch Engaged, Air Conditioning Compressor Commanded State, Air Mode Actuator, Airbag Warning Indicator, All Warning Lamps, AM Button, Anti-Theft Horn Status, AUX (Auxiliary) Button, Auxiliary Blower Output, Auxiliary Transmission Fluid Pump Commanded, Auxiliary Transmission Fluid Pump Control % Speed - Commanded, Backward Pedal Position Control, Blind Spot Detection System Telltale, Blower Motor Speed, Brake Light Activation, Brake System Fault Indicator Lamp, Brake-Shift Interlock, Cabin Coolant Heater Control, Cabin Heater Diverter Valve, Camera Power Control, Cancel Button, CCW Relay, CD Button, Center High Mounted Stop Lamp Output Control, Center Speaker Status, Center Tweeter Status, Commanded Equivalence Ratio (Air to Fuel Mixture) Bank 1, Commanded Equivalence Ratio (Air To Fuel Mixture) Bank 2, Continuous Vacuum Hublock Output Engaged, Coolant Overtemp, Coolant Pump -A- Control Speed - Commanded, Coolant Pump -A- is Commanded On, Coolant Pump -B- Control Speed - Commanded, Courtesy Lamps, Courtesy Puddle Step Lamps, CW Relay, DC To DC Converter Enable, Delayed Accessory Power, Desired Idle Speed (Rpm), Diesel Pre-Heater, Door Ajar Warning Indicator, Door Lock, Output, Driver Heated Seat, Dynamic Stability Control (DSC) Off, ECO Mode, Eco Stop-Start, EGR Valve Position Desired, Eject Button, Electric Transmission Fluid Pump Control Duty Cycle - Commanded, Engine Coolant Bypass Valve Control Output, Engine Coolant Bypass Valve -D- Output Status, Engine Coolant Pump Speed - Commanded, Engine Idle Shutdown Extended, Engine Oil Pressure Control Duty Cycle - Commanded, Engine Running Fuel Injector Control, Enter Button, EVAP Canister Vent Valve Open - Close, EVAP LDP Vac Sw Valve - Change Over From Vent To LDP, EVAP Leak Test, EVAP Purge Valve duty cycle, EVAP Purge/Vent Control, EVAP Vapor Blocking Valve Open - Close, Evaporative Emission Canister Purge Valve Duty Cycle, Evaporative Emission Canister Vent Valve, Evaporative System Leak Detection Pump Commanded State, Exhaust Flow Control Valve -A- Position - Commanded, Exhaust Flow Control Valve - B- Position - Commanded, Exhaust Heat Exchanger Bypass Valve A Control Signal Duty Cycle, Fan control high speed, Fan control low speed, Fan Speed Desired, Firm Shift, FM Button, Forward Pedal Position Control, Four Wheel Drive Clutch Output, Front Fog Lamp Indicator, Front Fog Lamps Request, Front Left - Front Right Traction Control Supply 1, Front Park Lamps Output, Front Window Down Output, Front Window Up Output, Frost Warning, Fuel Fill Door Unlock Output - Commanded To Enable State, Fuel Gauge Indicator Control, Fuel Pump Relay, Fuel Pump, Fuel Rail Pressure Desired, General Warning Indicator 1 (Red), General Warning Indicator 2 (Amber), Generator 2 Voltage Desired,

Generator Voltage Desired, Heater Control For HO2S 11 And HO2S 21, Heater Control For HO2S 12 And HO2S 22, HEV Ready Light, High Beam Indicator, Hill Descent Control, Horizontal Motor Backward, Horizontal Motor Forward, Horn Relay, Hybrid-EV Traction Battery Thermal System Operational Levels, Hybrid-EV Wake Up - Commanded, Hydraulic Pump Motor, Info (Information) Button, Instrument Illumination, Intake Manifold Runner Control, Internal Voltage Boost Circuit State, Key (Removal) Inhibit, KOEO Injector Buzz Self Test, KOEO Self Test, KOER Self Test, Lamp Control, Lane Departure Warning Telltale, LED Backlighting, Left Blend Door Position, Left Bottom Bolster Bladder Inflate Status, Left Climate Seat State, Left Cursor Down Arrow, Left Cursor Left Arrow, Left Cursor OK Button, Left Cursor Right Arrow, Left Cursor Up Arrow, Left Front Defrost Output, Left Front Dump, Left Front Fog Lamp, Left Front Isolation Valve, Left Front Speaker Status, Left Front Turn Signal Lamp Status, Left Front Tweeter Status, Left Front-Right Rear Traction Control Supply 1, Left Front-Right Rear Traction Control Valve 1, Left Headlamp High Beam, Left Headlamp Low Beam, Left Rear Dump, Left Rear Isolation Valve, Left Rear Speaker Status, Left Rear Turn Signal Lamp Status, Left Rear Turn Signal-Trailer Relay Status, Left Rear Tweeter Status, Left Seat Back Heating PWM Control, Left Seat Cooling PWM Control, Left Seat Cushion Heating PWM Control, Left Side Bolster Bladder Inflate Status, Left Stop-Turn Inner Lamp, Left Stop-Turn Middle Lamp, Left Stop-Turn Outer Lamp, Left Turn Signal Lamp Status, Liftgate Release Output Status, LIGHTS ON WARNING., Line Pressure Control Desired, Load Shed Output Control, Low Fuel Warning Indication, Low Washer Fluid Warning, Lumbar Forward Motor Control, Maintenance Warning Lamp, Max Defrost, Menu Button, Mirror Fold Out Output, Motor Electronics Coolant Pump, Next-Last (>|) Button, Oil Pressure Low Indicator, Oil Pressure, On Demand Test, One-Touch Start Status, Output State Control Of Torque Converter, Over Drive (O-D) off, Passenger Heated Seat, PCM WAKEUP LINE, Performance Shift Lamp, Phone Button, Power Balance, Power Button, Power Fold Mirror Activation Status, Preset 0 Button, Preset 1 Button, Preset 2 Button, Preset 3 Button, Preset 4 Button, Preset 5 Button, Preset 6 Button, Preset 7 Button, Preset 8 Button, Preset 9 Button, Rear (Hvac) Mode Control Input, Rear Blower Control, Rear Differential Coolant Pump Is Commanded To Pump, Rear Fog Lamp Indicator, Rear Left - Rear Right Traction Control Supply 2, Rear Locking Diff Output Duty Cycle (Optional), Rear Motor Down, Rear Motor Up, Rear Temperature Flap Position, Rear Window Down Output, Rear Window Up Output, Recline Motor Backward, Recline Motor Forward, Reverse Lamp, Right Blend Door Position, Right Bottom Bolster Bladder Inflate Status, Right Climate Seat State, Right Cursor Down Arrow, Right Cursor Left Arrow, Right Cursor OK Button, Right Cursor Right Arrow, Right Cursor Up Arrow, Right Front Defrost Output, Right Front Dump, Right Front Fog Lamp, Right Front Isolation Valve, Right Front Speaker Status, Right Front Turn Signal Lamp Status, Right Front Tweeter Status, Right Front-Left Rear Traction Control Supply 2, Right Front-Left Rear Traction Control Valve 2, Right Headlamp High Beam, Right Headlamp Low Beam, Right Rear Dump, Right Rear Isolation Valve, Right Rear Speaker Status, Right Rear Turn Signal Lamp Status, Right Rear Turn Signal-Trailer Relay Status, Right Rear Tweeter Status, Right Seat Back Heating PWM Control, Right Seat Cooling PWM Control, Right Seat Cushion Heating PWM Control, Right Side Bolster Bladder Inflate Status, Right Stop-Turn Inner Lamp, Right Stop-Turn Middle Lamp, Right Stop-Turn Outer Lamp, Right Turn Signal Lamp Status, Run-Accessory Output Control, Run-Start Output Control, Safety Belt Warning Lamp, Seat Bladder Pump Status, Seat Bolster Deflate, Seat Bolster Inflate, Seat Cushion Bladder Inflate Status 1, Seat Cushion Bladder Inflate Status 2, Seat Cushion Bladder Inflate Status 3, Seat Cushion Bladder Inflate Status 4, Seat Cushion Extend, Seat Cushion Retract, Seat External LED, Seat Lumbar Downward, Seat Lumbar Pump, Seat Lumbar Upward, Seat Tilt Down Motor Control, Seek Left Button, Seek Right Button, Shift Solenoid F Commanded Current, Shift Solenoid G 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 Light Lamp, Side Mirror Heating Output Control, Side Mirror Turn Signal Lamp Control, Sounder Output Request, Spark Advance, 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, Speedometer, Spotlight Mirror Output, Spotlight Switch Status, Start Button Mode Indicator Control, Starter Motor Control Output Detected, Steering Column Tilt Up, Steering Effort Button, Stop-Start Telltale Amber, Stop-Start Telltale Red, Stop-Start, Subwoofer Status, Tachometer Gauge Indicator Control, Temperature Gauge, Third Row Left Speaker Status, Third Row Power Fold Seat Output, Third Row Right Speaker Status, Throttle Position - Desired, Tire Pressure Telltale Status, Tone Button, Torque Converter Clutch Solenoid Commanded Current, Traction Control Indicator, Traction Control Off Indicator, Trailer Brake Output Circuit Duty Cycle - Measured, Trailer Tow Park-Tail Lamp Output, Trans Hydraulic Accumulator Sol Ckt - Commanded Energized, Transfer Case Shift Motor Pos Sense - Contact Plate Power Stat, Transmission System (Mil) Fault, Transmission Temperature Gauge Pointer Position, Turbo Boost Gauge Pointer Placement Command, Turbocharger Bypass Valve 1, Turbocharger Wastegate, Variable Camshaft Timing Exhaust Angle Desired, Variable Camshaft Timing Intake Desired Angle, Variable Geometry Turbocharger Commanded, Vehicle Mode, Video Output, Viscous Fan Pulse Width Modulated Control - Commanded, Volume, Warning Lamp Status 1 - Charge Warning, Water In Fuel Indicator, Wiper Heater Output

## ***New Coverage – USA Asian***

### ***Toyota/Lexus Coverage***

#### **4 new Actuation type special tests:**

Radar Cruise Approach Alarm Buzzer, Radar Cruise Proximity Warning Buzzer, Radar Cruise Stop Buzzer, Radar Cruise Stop Keeping Announce Buzzer

## ***New Coverage – USA European***

### ***Audi Coverage***

- Added coverage for 814 new system applications

#### **41 new Adjustment type special tests:**

Adaptation (10) / Long Adaptation (0A), Adapting Of Control Motors, Adaption After Adjustment, Allocate Control Motors, Basic Setting, Basic Settings (04), Braking to Standstill, Camera/Video Brightness, Camera/Video Contrast, Camera/Video Saturation, Collision Prevention 1 (Special Methods 1), Collision Prevention 2 (Front-Assist), Confirmation Sound, Cooling Output Test, Fatigue Detection / Rest Assist, Flap Motors Address Lookup/Initiation, Front Buzzer Frequency, Front Buzzer Volume, Hydraulic Brake Assistant (Special Methods 2), Learned Values (Vehicle Data), Locking for Coding/Flashing, Log-in(11) Adaptation(10), Log-in(11) Basic Settings(04), Log-in(11) or Coding II(11), Potentiometer And Flap Alignment, Potentiometer Flap Motor Alignment, Quickstart - Reset Of Adaption Values, Rear Buzzer Frequency, Rear Buzzer Volume, Replace Control Unit: Transfer Configuration, Reset Factory Defaults, Reset Frequency Counter, Reset of Adjustment/Calibration Values, Security Access (16) Adaptation (10) / Long Adaptation (0A), Security Access(16) Basic Settings (04), Service Light Reset, SWaP Function Crypt Data ID, SWaP Function Transfer Crypt Data, System Shut-off, Transfer Configuration, Variant Encoding

#### **1333 new Workflow tests:**

Activate TV stand.country setting, Air flow flap control motor, Air-conditioning system control unit reset, Alarm horn, Auxiliary/supplementary heating: Metered quantity measurement (fuel), Basic setting, Belt comfort fit actuator, Braking mode, Central locking, Combustion air blower, Defrost flap control motor, Door interior handle illumination, Driver side door light actuation, Dynamic cornering light, Engine management adaptation values reset, ESP hydraulic-system bleeding, Extend mirror, Flexible service interval configuration, Footwell flap control motor, Fr.right window defrost. flap CM, Fuel metering pump, Fuel tank breather valve, Gasoline particulate filter regeneration: Static, Head restraint adjustment: Up, HV charging connection: Reset the number of charging cable mating cycles, Instr. cluster all displays off, Learning of info on control units fitted, Mirror heating, Particle filter reg. auxiliary air valve, Power door latching sys.actuation, Radiator blind 3: Actuation, Rear fog light, Rear lid adaptation, Rear window washer pump, Refrigerant shut-off valve 2, Reset adaptation parameters, Reversing lamps, Seat heating configuration, Sun roof adaptation, Sun shade adaptation, Supplementary heater, Supplementary heater: Adaptation of the component <remote control unit>, Supplementary heater: Reset starter interlock, System functional test, Test screen, Text output instrument cluster, Trailer brake actuation output, Transmission control: Perform adaptation drive, Transmission rapid adaption, Turning light, Windscreen heater, Activate component protection, Actuator/structure-borne noise, Adjust mirror upward, Auto-hold button LED, Automatic transmission oil level check, Auxiliary/supplementary heating: Fill and bleed the component <Fuel supply pipe>, Camshaft drive timing chain: Reset adaptation values, Charge connection<BR>Charge connector lock, Circulating pump, Door power latching system, A/C compressor, Activate parking brake after pad replacement, Adjust mirror inward, Adopt.of unfiltered ambient temp., Air distribution flap, Autom. transm. adaptation values adapt., Central electronics control unit: Reset learning values, Central locking system: close, Central locking system: open, Close load compartment cover, Compressor magnetic clutch, Control unit housing fan actuation, Coolant thermostat: Adapting, Daytime driving light, Deactivate gateway ctrl. unit transport mode, Deactivate parking brake for pad replacement, Disconnect coupler, El. power st. st. wheel angle sens. adapt., Electric automatic transmission oil pump: Test, Emergency call system: Resetting after replacement of the component <Emergency battery (low voltage)>, Engine component relay, External noise actuator, Flame sensor of<BR>supplementary/auxiliary heater, Front air distr. flap ctrl. motor, Front left ABS inlet valve actuation, Front left seat ventilation, Front-passenger airbag indicator lamp (OFF), Fuel quantity control valve, Gateway: Check no-load current, Heating water valve, Indirect ventilation vent flap, Infotainment/multimedia control unit: Restart, LED headlamp fan motor 1: Actuation, Left headlight range control Down, Left outer brake light, Left turn signal indicator, Loudspeaker test, Open all-wheel pump solen. valve, Parking light, Passenger compartment lighting, Programming, trailer coupling, PS belt buckle illumination, Radiator fan motor 1, Rear centre belt catch light, Rear left sun blind, Rear pass.side PW: Closing signal, Rear side light, Rear temperature flap control motor, Rear window roller blind motor, Rear wiper, Recirculated-air flap control motor, Refrigerant compressor relay, Retract mirror, Right trailer side light lamp, Seat fore-and-aft adjustment, Segment test, Start/stop function: Activate/deactivate temporarily, Supplementary heater: Adapting, Terminal 58d<BR>(dimming for interior lighting), Test sound, Torque converter lock-up clutch, A/C compressor adaptation, Active accelerator pedal, Additional heater glow plug: Reset adaptation values, Adjust mirror downward, Analog clock, Brake light, Central electronics control unit: Cancel access authorisation for protected functions (SDA), Control lamps, Control unit output terminal 30, Control unit: Request access authorisation, Cooling system: Filling, Dipped beam, Dipped beam actuation, DS window-lifter motor: Close, Electr. air suppl. heater actuation, Electric fuel pre-supply pump, Electric fuel pump, Electric power steering: Reset adaptation values, ESP control unit: Cancel access authorisation for protected functions (SDA), ESP sensor unit adaptation, Exhaust flap 2, Exhaust gas turbocharger bypass valve, Fan actuation, Fixed service interval configuration, Fresh-air flap / Recirculated-air flap, Front window lifter: Lower, Gateway control unit reset, HV battery charging module: Cancel access authorisation for

protected functions (SDA), Inlet camshaft timing control (bank 1), LED headlamps: High-side channel 2, Left trailer side light lamp, Left trailer stop lamp, Lumbar support longitud. adjustment, Main relay, Oil pressure regulating valve, Operating unit button illuminat., Parking brake operating unit LED, PS window-lifter motor: Close, Radiator blind 2: Actuation, Rear left belt catch lighting, Rear right belt catch lighting, Rear seat heating, Rear short-range camera: Static adaptation, Retract trailer coupling, Secondary-air valve, Side light, Tank leakage diagnosis check valve, Trailer rear fog light, Transmission adaptation basic setting 3, Transmission control: Reset configuration, Turn signal indicator, Turn signal lamps, A/C compressor: Actuation, Actuate charging connect. 1 LEDs, Actuation of all components <Radiator fans>, Air conditioner control motors: Adapting, Alternator test 15.0 V, Auxiliary/supplementary heating: Test, Backrest adjustment, Trailer reversing light, Trailer side light, Water Pump, AC/heat output test, Activate antenna 1, Activate antenna 3, Actuation/charging flap unlocking 1, Air quality sensor: Configuring, Ambient lighting, Bleed fuel system, Break recommendation, Close all-wheel pump solen. valve, Commissioning electric parking brake, Crankshaft trigger wheel: Adapting, Display: Test, Electric fuel pump adaptation, Emergency call system: Functional test, Engine control unit: Activate/deactivate increased engine oil pressure for engine break-in, Extend trailer coupling, Extension module, Footwell lighting, Fr. right ABS inlet valve actuation, Front central locking Unlock, Function kink angle sensor, Function light 1, Head restraint adjustm. to front, Head restraint adjustment, Headlamp setting, Injectors: Test, Intake air switching valve, Left engine mounting, Left LED headlamp power module: Resetting, Left temperature flaps servomotor, Lift sunroof, Mirror adjustment To left, Multifunction output 2, Multimedia display 2: Test pattern, Open load compartment cover, Rear fresh air blower, Rear lid: Close, Rear lid: Opening, Rear right ABS inlet valve actuation, Rear short-range camera: Write configuration, Reset adaptation to factory setting, Right turn signal indicator, Seat memory position 2, Selector lever lock, Side marker light, Static cornering light, Status: Charging flap release, Supplementary heater circulating pump: Reset adaptation values, Tank flap, Blinker, Central locking system warning lamp, Child safety lock, Close sun blind, Control unit box fan motor, Driver side mirror adjustment, Electric supplementary heater, Electronic stability program: Activate brake dynamometer mode, Exh. gas turbocharger control motor adap., Front axle torque request, Front central locking SAFE, Front fog headlight, Front window lifter: Lift, Fuel pressure reduction, Gasoline particulate filter: Resetting, Gasoline particulate filter: Write configuration, Indicator lamp for<BR>passenger-compartment monitoring, Interval display service: Resetting, LED headlamps: High-side channel 1, LED headlamps: High-side channel 3, Lumbar support height adjustment, Mirror adjustment To right, Radiator fan motor 2, Rear central locking SAFE, Rear indicator lamp, Rear lid power latching system, Rear window lifter: Lower, Right headlight range control Down, Running gear control unit: Adapt components <Damper solenoid valves>, Seat height adjustment, front, Side/daytime driving light LED module: Signature light, Start/stop button simulation, Status: Battery charge button, Supplementary heater: Reset adaptation values, Transmission adaptation basic setting 2, Transmission oil pressure accumulator: Pressure build-up, Transmission oil pressure accumulator: Pressure reduction, Window lifter, Windshield wiper service position, Activate antenna 2, Activate selector lever lock, Actuation of all control motors, Additional turn signal indicator, Air flap range/tolerance limits, Additional indicator lamp panel, Alternator test 10.6 V, Coolant bypass valve, Coolant pump switching valve, Daytime driving light actuation, Display 2, Display test pattern, Error text output, Fresh-air blower, Front central locking Lock, Front right seat heating, Function light 2, Gong, HV battery cooling heat exchanger, Heat exchanger shut-off valve, Intake manifold flap, Nozzle heating, Open sun blind, Outlet camshaft timing control (bank 1), Radiator blind 4: Actuation, Rear left central locking motor, Rear right seat heating, Right trailer turn signal indicator, Seat position Normal, Supplementary heater: Configuring, Throttle valve control unit adaptation, Transmission oil level test, Activate gateway control unit transport mode, Active accelerator pedal activation, Battery adaptation, CU output terminal 30 controlled, Drive program, DS window-lifter motor: Opening, ESP brake pressure sensor adaptation, Exhaust turbocharger cntrl. valve, Fresh-air flap control motor, Front right

seat ventilation, Gateway: Cancel access authorisation for protected functions (SDA), Hydraulic fluid pump, Infotainment/multimedia display: Resetting, LED headlamps: High-side channel 4, Luggage compartment cover adaptation, Multi-contour seat compressor, Rear central locking Lock, Rear door light, Rear dr.side PW: Closing signal, Rear left seat heating, Rear pass.side PW: Open signal, Rear right central locking motor, Trailer socket power supply<BR>Pin 10, Trailer warning light 2, Transmission coolant valve, Transmission gear actuator solenoids: Neutral position, Tyre pressure sensor adaptation, A/C operating/display unit: Automatic addressing, Adjustment, Anti-theft alarm siren/horn, Average consumption display correction, Battery (12V): Checking of components <Battery cells>, Bleed, Boost pressure actuator basic adjustment, Button LED white, Check link with server, Compass display, Convertible top flap motor, Convertible top solenoid valve 4, Cup holder ambient light, Defroster flap control motor, Dynamic flashing, EGR bypass solenoid valve, Forced change-up adjustment, Front left fog headlight, Front parking aid warning buzzer, Front right turn signal indicator bulb 2, RR turn signal indicator 2 bulb, Gradual rear lid closing, Ignition key removal lock, Left air mix flap, Left footwell temp. flap control motor: Actuation, Left side light: 1, Left side-mounted turn signal indicator, Microph. signal via audio output, Move left headlamp horizontally, Neutral position sensor adapting, No-load current test, Oil pressure regulation switching test, Park Distance Control switch LED, Parking aid: Activation, Power supply, terminal 15, Activate energy saving mode, Drain fuel tank, DS belt buckle illumination, Footrest adjustment, Generate readiness code, Headlight washer system relay, Indicator light, hazard flasher, Instrument cluster control unit: Cancel access authorisation for protected functions (SDA), Passenger side rear window lifter, Piston cooling nozzle solenoid valve, Rear left ABS inlet valve actuation, Refrigerant shut-off valve (Air-conditioning system), Right outer brake light, Search illumination, Seat angle adjustment, Secondary air pump relay, Test mode, Trailer brake control, Trailer socket power supply<BR>Pin 9, Write configuration, Rear short-range camera: Transfer configuration, Rear window lifter: Lift, Sun roof: Opening, Unlock trailer coupling, Activate anti-theft alarm, Active steering control unit: Reset learning values, Airbag indicator light OFF, Aux Pump, Button LED red, Calibrate parking brake, Convert. top compart. well motor, Convert. top compart.mot.fastener, Convertible top solenoid valve 5, Corner lamps, Display 1, Driving school acoustic warning, Electric power steering: Configuring, ESP test, Exhaust flap Bank 2, Footwell lamps, Fragrance atomiser control motor, Front door light, Front left damper solenoid valve, Front right damper solenoid valve, Gateway: Configure pause recommendation, Headlamp position vertical bottom, Hydraulic fluid pump relay, LED channel 2 actuation, Left vent trim, Main beam, Rear air recirculat. flap control motor, Auto-Hold indicator lamp, Black test pattern, Center vent trim, Convertible top locking motor, Convertible top motor, Convertible top solenoid valve 6, Coolant circulation pump, Crash signal, Dash panel flap, Deactivate selector lever lock, Driver side multi-contour seat: Functional test, Emergency call system: Manual emergency call, Flexible service interval adjustment, Front-passenger airbag indicator lamp, Fuel pump adaptation, Green test pattern, Headlight range control, HV system crash signal, Instrument cluster: Contour lighting, Left B-pillar/footwell<BR>shutoff flap control motor, Left center vent control motor, Left footwell flap control motor, Left footwell temp. flap control motor, Left side light/dayt. driv. light bulb 2, Menu-driven configuration, Parking aid button, (Control lamp): Actuation, Parking steering assistant control lamp, Pressure accum./compressor test, PS window-lifter motor: Opening, Radiator fan: Actuation 1, Rear air volume flap<BR>control motor, Rear left damper solenoid valve, Rear right air spring valve, Rear right seat ventilation, Rear right short-range radar sensors: Write configuration, Electronic stability program: Configuration of value-added functions, Exhaust flap, Infotainment control unit: Cancel access authorisation for protected functions (SDA), LED (HV charging connection): Actuation, Multifunction output 1, Neutral position sensor: Adapting, Operating unit illumination, Passenger compartment lighting: Dimming, Puddle lamp, Rear air distribution flap control motor, Rear dr.side PW: Open signal, Rear lid central locking, Refrigerant shut-off valve 1, Right engine mounting, Right headlight range control Up, Right temperature flaps servomotor, Right trailer stop lamp, Temperature door positioning motor, Trailer brake lights, Transmission adaptation basic setting

1, Windscreen wiper, Analogue display test, Center air vent positioning motor, Electric coolant pump, Exterior lighting, Fr.left window defroster flap CM, Front left seat heating, Front windscreen washer pump, Heated rear window, Horn, Ignition lock: Check locking, Leakage test function, Left trailer turn signal indicator, Radiator blind: Actuation, Rear central locking Unlock, Regeneration auxiliary air fan, Right LED headlamp power module: Resetting, Seat depth adjustment, Steering wheel heating, Structure-borne noise volume adjustment, Sun roof: Close, Supplem. heating pump actuation, Tank leakage pump, Transfer configuration, Transfer transmission ECU configuration, Warning tone generator, Bleed cooling system, Button LED yellow, Clean clutch, Continued engine operation circuit, Disable all LEDs, Driving program switch, Driving school rem.ctrl.indic.LED, Exhaust gas turbocharger reset, Fixed service interval adjustment, Rain/light sensor: Write configuration, Reading lights, Rear axle differential lock: Fill the fuel <Differential gearbox oil>, Rear DS door trim ambient light., Rear short-range radar sensors: Static adaptation, Rear-axle differential lock oil pump bleeding, Refrigerant circuit: Service mode activation/deactivation, Right B-pillar shut-off flap, Right daytime driving light bulb 2, Running gear control unit: Dissipate system pressure of the system <Air suspension>, Running gear control unit: Locking the system <Level control>, SHA: Dr.side mirror warng. LED on, SHA: Dr.side mirror warng.LED off, SHA: Instr.cluster warng. LED off, SHA: Pass.side mirr.warng.LED off, Side-marker lamp, left front, Supplementary heater: Test, Suppress mirror glare, Switch between antennas, Tank flap release, Test pattern 5, Transfer A/C control unit configuration, Valve 2 add. volume air spring, Voltage converter: Functional test, Background illumination, Battery separation relay, Blue test pattern, Button LED blue, Central locking: Remote control, Crash signal/all belt tensioners, Adapting of control motors, Air distribution control mot: front, Allocate control motors, Button LED green, CD/DVD ejection, Central locking system locking unit, Rear lid, Close clutch, External noise volume adjustment, Left headlight range control Up, Microphone test, Mute entertainment, Trailer indicator lamp, Refrigerant shut-off valve 3, Reset start/stop counter, Right footwell flap control motor, Right footwell temp. flap control motor: Actuation, Right main beam screen, Right rear light, Right side light: 1, Running gear control unit: Build up system pressure of the system <Air suspension>, Running gear control unit: Unlocking the system <Level control>, Seat heating power stage 2 to 1 reduct. time, Tiptronic steering wheel button adjustment, Transmission oil pump motor, Unlock. the top glove compartment, Video signal, Weapons box, Wind deflector control motor, Activate all LEDs, Closed circuit relay, CM HUD vertical deflection mirror, Coolant shutoff valve, Front right fog headlight, Headlamp position vertical top, High-side channel actuation, Le. dayt.driv./side light LED power mod., Left rear light, Rear passenger side door ambient light: Contour lighting, Rear spoiler, Refrigerant circuit: Reset refrigerant loss detection counter, Reset all counters, Right B-pillar/footwell<BR>shutoff flap control motor, Right center vent control motor, Right head area heating, Right sd light/dayt. driv. light bulb 2, Right window defrost flap control motor, Right/left-hand drive configuration, Seat heating, Supplementary heater: Encoding, Taillamps, Test image yellow, White test pattern, Air-conditioning system: Adadption after replacing perfume bottle 2, Ambient light: Channel 1, Brake-pedal position sensor: Test, Button LED magenta, Compressor (Passenger side multi-contour seat), Convertible top indicator lamp, Left side vent CM, Active head restraints, Additional interior lighting, Air conditioner control motors: Automatic addressing, Air supplementary heating, Air volume/distribut. display time adjustment, Control lamp (Parking assistant), Engine temperature management basic setting, Exhaust gas turbocharger bypass valve: Adapting, Exhaust supercharger air circulation<BR>valve, Fan Control, Fragrance blower motor, Front centre console ambient light 1, Front flashing light actuation, Fuel evaporation regeneration valve, Hydraulic fluid pump relay 2, LED dimming interior mirror, LED wiper switch, Left B-pillar shut-off flap, Left daytime driving light, Left main beam screen, Left window defrost flap control motor, Mechanical system display unit 1, Move right headlamp vertically, Multimedia operating unit: Contour lighting, Passenger side multi-contour seat: Functional test, Power supply with exh.disch.prot., Rear flashing light actuation, Rear left backrest heating, Rear lid basic setting, Rear radar sensor: Transfer configuration, Rear right air distribution<BR>control motor, Right air mix flap,



Right side vent control motor, Running gear control unit: Set suspension height, Fragrance atomiser control motor: Adapting, Front left turn signal indicator bulb 2, RL turn signal ind. 2 bulb, Fuel preheating, Indoor fragrance atomiser: Scent 1, Intake-manifold/in-cylinder<BR>flow flap, Left cornering light: Dimming, Left side vent control motor, Left stat.crng.light act. 100%, Load compartment light, Main beam assist. indicator lamp, Open clutch, Parking aid, Loudspeaker, Pause display, Pulse-wheel test, Rear air distr. flap contr. motor, Rear air volume control motor, Rear left air distribution<BR>control motor, Rear left seat ventilation, Rear right backrest heating, Red test pattern, Refrigerant expansion valve 1: Actuation, Refrigerant shut-off valve 5, Right footwell temp. flap control motor, Right side vent CM, Right side-mounted turn signal indicator, Running gear control unit: Pressure reduction/pressure build-up in the system <Air suspension>, Running gear control unit: Setting the loading/transport mode, Screen wiper motor: Adapting, Seat ventilation, SHA: Pass.side mirr. warng.LED on, Steering column adjustment upwards, Tank flap locking: Actuation, Airbag control unit: Reset counter (roll-over protection triggerings), Airbag crash signal Rest of World, Airbag crash signal US version, Alternator: Functional test, Anti-theft device, Auxiliary coolant pump LT circuit, Convertible top solenoid valve 1, Convertible top solenoid valve 2, Emblem camera, Glow plug system, Left daytime driving light bulb 2, Left main beam, Pressure accumulator: Bleeding, Ri. dayt.driv./side light LED power mod., Rear footwell lights, Rear left vent control motor, Rear-axle diff. lock system self-test, Selector lever moved transversely, Test image cyan, Test pattern 1, Transmission setting adaption, 4WD clutch solenoid valve, Move left headlamp vertically, Rear PS door trim ambient light., Recirculated-air flap, Refrigerant expansion valve 2: Actuation, Reset timing chain adaption values, Roll-over bar triggering, Servomotor for air flow flap,<BR>left rear, SHA: Instr.cluster warning LED on, Side marker lamps, Transfer el. power steering configuration, Two-way radio, Tyre pressure monitoring system self-test, Valve 1 add. volume air spring, Valve for engine mounting 2, Actuate charging connect. 2 LEDs, ASR/ESP control lamp, Brake pad application actuation, Brake pad approach actuation, ACC button LED, Activate remote control, Air-conditioning system: Adadption after replacing perfume bottle 1, Automatic start/stop button control lamp, Bi-xenon screen, Coolant shut-off valve 2, Coolant shut-off valve 3, Emergency call system: Loudspeaker, Flame monitor/glow element unit, Front DS door trim ambient light., Front PS door trim ambient light., Front right air spring valve, Headlight washer system, Indoor fragrance atomiser: Scent 2, Backup lamp, Button LED cyan, CAN data bus: Write configuration, Compressor (Driver side multi-contour seat), Cruise control indicator lamp, Door handle control ON, Electric power steering: Encoding, Front fresh air blower, Front short-range camera: Test pattern, Hazard warning system lamp, Headlamp fan actuation, Headlamp position vertical centre, Head-up display self-test, Keyless antennas: Access/start authorization, LED channel 3 actuation, Mileage data adjustment, Rear axle differential lock: Adaptation of the component <Multi-function sensor>, Rear short-range radar sensors: Write configuration, Right main beam, Seat heating power stage 3 to 2 reduct. time, Servomotor for air flow flap,<BR>right rear, Side-marker lamp, right front, Soft-top motor 2, Static test, Single gear indicator adjustment, Steering column adjustment to front, Supplementary air heater<BR>control unit, Valve 3 add. volume air spring, Vent control motor, rear left, Warning Message, Windscreen wiper: Position, Convertible top solenoid valve 3, Front left air spring valve, HDC info lamp, Interior and function lighting, Lane keep.assist: Warning LED off, LED channel 1 actuation, Vehicle conditioning, Vehicle speed, Windshield wiper heater element, Washer jet heater, Gradual rear lid opening, Left side light: 2, Country version encoding, Display illumination, Front driver side door ambient light: Contour lighting, Front footwell lighting, Front passenger side door ambient light: Contour lighting, Lane keep.assist: Warning LED on, Number plate light, Pressure accumulator valve, Rear left air spring valve, Rear right damper solenoid valve, Rear right vent control motor, Rear window, Refrigerant shut-off valve, Refrigerant shut-off valve 4, Right daytime driving light, Right daytime driving/side light, Right side light: 2, Test pattern 2, Test pattern 3, Test pattern 4, Transmission oil cooler bypass valve, Button LED, Close charging connection flap 1, Display: Road sign display, Driver warning pedestrian prot., Headlamp pos. right horiz. center, Lane keeping assist display,

Left torque request Stage 1, Left torque request Stage 2, Matrix headlamp reference segment, Right headlamp light distribution, Headlamp pos. left horiz. inner, Individ. matrix headlamp segment, Interconnect. of all microphones, Interior rear light, Left head area heating, Move right headlamp horizontally, Multi-function steering wheel: Lighting, Parking-brake system: Release, Power flow interrup. when stationary adjustm., Left daytime driving/side light, Lifting magnet: selector lever lock, Load compartment cover basic setting, Radiator blind, Rear driver side door ambient light: Contour lighting, Refrigerant expansion valve 3: Actuation, Right cornering light: Dimming, Right vent trim, Roof marker light, Roof sign, SHA: Warning LED KI PASSIVE, Steering column adjustment to rear, Test image magenta, Throttle valve basic setting, Valve 4 add. volume air spring, Vent control motor, rear right, Steering column adjustment downwards, Transfer rear ri. radar sensor configuration, Actuate charging connection 1, EMF opening mode adjustment, Headlamp pos. right vert. bottom, Headlamp: Left horizontal external position, Left torque request Stage 3, Light control: Left-hand/right-hand drive resetting, Main beam assistant, Release left parking brake, All-whl. drive clutch sol.valve 2, Bleed pressure lines, Brake pad replacement step 1, Headlamp pos. left vert. center, Headlamp pos. right horiz. outer, Headlamp pos. right vert. top, Headlamp: Left vertical bottom position, Parking-brake system: Actuate, Red function lamp, Yellow lane keep.ass. indic. lamp, Battery (high-voltage): Battery state test (State of Health), Battery (high-voltage): Cancel access authorisation for protected functions (SDA), Exhaust camshaft timing bank 1, Front left mid-range loudspeaker, Front right mid-range loudspeaker, Front right short-range radar sensor: Static adaptation, Front right treble loudspeaker, Start valid authentication, Brake pad replacement step 2, Charge connection flap, Fill pressure lines, Front driver assistant cam. static adaptation, Headlamp: Left vertical top position, HV battery charge/discharge current, Variant encoding, All segment matrix headlights le., Close charging connection flap 2, Def. right.matrix headlamp segment, Headlamp: Left horizontal centre position, Taxi alarm, Tone seq. switching (urban/rural), Window heating: Camera range, All Lamps On, Def. left matrix headlamp segment, Left CM short closing pulse, Left headlamp light distribution, Tone seq.syst.activ.via horn act., Valve for engine mounting 1, Pressure test, Right torque request Stage 2, Special signal system, All segment matrix headlights ri., Headlamp pos. right vert. center, HV battery charge, Right stat.crng.light act. 100%, Wheel torque limitation, Actuation/charging flap locking 1, Clutch: Reset adaptation values, Starter generator: Functional test, Release right parking brake, Right torque request Stage 1, Transfer front driver assist. camera config., Green function lamp, Reset clutch pressure sensor adaptation, Reset total clutch adaption, Right CM short closing pulse, Yellow warning lamp, Headlamp pos. right horiz. inner, Right torque request Stage 3, Battery (high-voltage): Reading out the current capacity, SOH (State of Health), Camera heating, Front left bass loudspeaker, Front long-range night view camera: Transfer configuration, HV battery cell evaluation, HV battery coolant pump, Right transmission mounting valve, Battery (high-voltage): Diagnosing state, HV system: Inverter coolant pump, Inverter phase current evaluation, Rear right bass loudspeaker, Deactivate parking lock, 3rd row seat: Adapting, Antenna module: Cancel access authorisation for protected functions (SDA), Auxiliary coolant pump, Cooling system: Bleeding, Electric rear axle steering: Activate/deactivate roller dynamometer mode, Engine mounting control 1, Front left treble loudspeaker, Exhaust camshaft timing bank 2, Front left short-range radar sensor: Static adaptation, Inlet camshaft timing bank 1, Left transmission mounting valve, Rear left bass loudspeaker, Rear right treble loudspeaker, Volume remote control, Actuation/charging flap locking 2, Battery (high-voltage): Readout of the current capacity, Camera shutter, Electronic loudspeaker test, Exhaust gas turbocharger bypass valve 1, Heating pump actuation, Red warning lamp, Front long-range night view camera: Static adaptation, Rear right mid-range loudspeaker, Warning buzzer, Assembly mounting actuators, Charging flap 1 actuation signal, Charging flap 2 actuation signal, Cylinder head coolant valve, Electric rear axle steering: Activate/deactivate the locking of the centre position, Engine suspension<BR>solenoid valve, left, Exhaust gas turbocharger bypass valve 2, Front right bass loudspeaker, Rear left mid-range loudspeaker, Rear left treble loudspeaker, Activate parking lock, Volume distribut. remote control,

Adjustment of vehicle level sensors, Air supply solen. valve Massage 1, All actuators, Backrest side bolster air venting, Bad weather light left, Belt tensioning 120 N, Distance control LED display, Engine overheating warning lamp, Engine suspension solenoid valve, right, Front long-range night view camera: Reset to factory settings, Front right loudspeaker 1, Keyless unlocking optical feedback, Left motorway light, Oil-pressure indicator lamp, Parking brake indicator lamp, Racing light right, Rear acoustic signal frequency, Rear air mix flap, Rear central flap control motor 2, Rear left temp. flap control motor: Actuation, Rear right loudspeaker 2, Reset adaption value, Reset MOST bus break counter, Rev counter, Ri. LED lgt. distr.: Main beam, Ri. light distr.: Motorway light, Test pattern 6, Test pattern 8, Transportation mode, Unlocking with key switch optical feedback, Voice output basic volume adjustment, Coolant pump actuation in LT circuit, Front long-range LIDAR: Cleaning request, Heating, High-voltage charging timer and high-voltage charging profile data: Reset to factory settings, Seat height adjustment, Brake disc drying adjustment, Brake warning lamp, Front parking assist. loudspeaker, Front radar sensor static setting, Le. LED lgt. distr.: Motorw. lgt., Le. LED lgt. distr.: Racing light, Left exterior mirror blind spot warning lamp, Left static cornering light, Move gear positioner to neutral position, Rear acoustic signal volume, Rear interior antenna, Coolant pump, charge-air cooler, Engine control unit: Reset self-ignition counter, Injector reset, System remote control, Activate/deactivate production mode, Actuator AZB, Acc. ped. double imp. generation, Boost pressure control valve, Clutch actuator: Adapting, Engine mounting control 2, Inlet camshaft timing bank 2, Activate rem.cont.sign.warng.tone, Activate/deactivate shipment mode, Air supply solen.valve Massage 3, Audio signal delay adjustment, Bus optical transmission power reduction, Central flap control motor Center, Compressor run-in time adaption, External AUX input volume adjustment, Fr.rght.damper adj.val.curr. Soft, Front acoustic signal volume, HV batt.charging func. rem.ctrl., Le. LED lgt. distr.: C. road lgt., Le. LED lgt. distr.: Urban light, Le. light distr.: Light/dark lim., Le.LED lgt.distr.: Stat.corn.lgt., Left light distr.: Motorway light, Left seat side bolster, Media play volume adjustment, Pressure accumulator, preload pressure, Program sensor code, Ri. LED lgt. distr.: C.road light, Ri. light distr.: Light/dark lim., Right open road light, Seat cushion air extraction sol. valve, Seat cushion ventilation sol. valve 2, Vehicle width adjustment, Rear left short-range radar sensors: Write configuration, Air suppl.sol.val. Lumbar supp. 2, Air supply solen.valve Massage 10, Air supply solen.valve Massage 6, Air supply solen.valve Massage 7, Air supply solen.valve Massage 8, Belt tensioning 25 N, Close window, Compressor run-in blower voltage adaption, Control unit run-on time adjustment, Coolant pump 2, DWA interior monitor sensitivity adjustment, Fr.rght.damper adj.val.curr. Hard, Fresh/recirculated-air flap 50%, Front left loudspeaker 1, Front left side vent contr. motor, Instrument illumination, Le. LED lgt. distr.: Tourist lgt., Le.LEDlgt.distr.:All-weather lgt., Left backrest side bolster, Lft light distr.: Aut. main beam, Lumbar support 1 air extrac.sol.val., Lumbar support 3 air extrac.sol.val., Oil level warning lamp, Radiator fan: Actuation, Rear blower motor, Rear central flap control motor, Rear left damp.adj.val.curr. Soft, Rear right loudspeaker 1, Tank leakage diagnosis pump, Tank shut-off valve, Transfer rear left radar sensor configuration, Transfer vehicle configuration, AC/heating funct. via rem.control, Activation tone adjustment, Air suppl.sol.val. Lumbar supp. 3, Air supply solen.valve Massage 5, Audio reduction adjustment, Blower motor: Half power, Central flap positioning motor, DWA driver door opening alarm delay adjustm., Fresh/recirculated-air flap 100%, Front and rear control motor basic settings, Front control motor basic settings, Front right loudspeaker 2, HV batt.charger connector locking, Le. LED lgt. distr.: Main beam, Maximum refrigerating output, Online service transmiss. config., Rear left air vol.flap CM actuat., Rear rght.damp.adj.val.curr. Soft, Right backrest side bolster, Right motorway light, Tourist mode, Rotor position sensor test, Activate air suspension, Adjustment: Locking whilst driving, Air extrac.sol.val. Lumb. supp. 2, Air supply solen. valve Massage 2, Air suspension compressor motor relay, Analog signal muting, Blower motor: Maximum power, Bluetooth connection profile adjustment, Check bus sleep mode, Compressor run-in, Acoustic test signal, Adjustment: Remote control conven. actuation, Air flow flap, Belt warning lamp, Bluetooth connection last device, Central flap control motor Footw., Front acoustic signal frequency, Gong

control, Green lane keep.ass. indic. lamp, Keyless locking optical feedback, Learn normal level, Left air mix flap control motor, Left light distr.: Urban light, Left racing light, Lin bus 2 control motor adaption, Microphone sensitivity adjustment, Muting: CAN signal, Park distance control: Activate, Pressure build-up, Rear control motor basic settings, Rear right air vol.fl. CM actu., Rear right temp. flap control motor: Actuation, Reference channel delay adjustment, Reserve fuel indicator lamp, Ri. LED lgt. distr.: Tourist lgt., Ri. lgt. distr.: Country r. light, Electric drive control: Cancel access authorisation for protected functions (SDA), ESP brake pedal position sensor adaptation, Right footwell flaps, Right light distr.: Urban light, Seat cushion ventilation sol. valve 1, Turn signal indicator gong, Washer fluid warning lamp, Ri.LED lgt.distr.: Dayt. dr.light, Ri.LED lgt.distr.: Stat.corn.lgt., Ri.LEDlgt.distr.:All-weather lgt., Right urban light, Visual display adjustment, Wheel circumference adjustment, Actuate charging connection 2, Encoding of retrofitted components, Front left loudspeaker 2, Front right side vent contr.motor, Fuel level indicator, Glow plug warning lamp, Le. lgt.distr.: Country road lgt., Left footwell flaps, Left urban light, Lin bus 1 control motor adaption, Muting, Parking aid deactivation speed, Pressure reduction, Pump motor, solenoid valve, Rear left damp.adj.val.curr. Hard, Reset control unit, Ri. LED lgt. distr.: Racing light, Ri. LED lgt. distr.: Urban light, Ri. lgt. distr.: Aut. main beam, Ri. lgt. distr.: Main beam ind.l., HV system: Auxiliary coolant pump, Radiator blind control: Adapting, ABS hydraulic-system bleeding, ABS pump motor, Battery (high-voltage): Clear fault memory after crash, Brake light: Actuation, ESP steering wheel angle sensor adaptation, Front long-range LIDAR: Static adaptation, Mirror adjustment motor, Display test, text, Front right ABS solenoid valve, Intersection light right, Left intersection light, Magnetic coupling: air conditioner, Remote control vehicle locking, Telephone op. unit button illum., Unlocking with remote control opt. feedback, Infotainment control unit: Resetting, Parking brake indicator lamp switch, Radiator fan solenoid valve, Defrost flap left, Defrost flap right, Rotor position reset, Tire pressure monitoring: Automatic adaptation, Green indicator lamp, HV charging cable indicator lamp, Activation: Actuator test, Airbag control unit: Roll-over protection test, Close differential lock, Driver door handle sensor, Front interior antenna, Front left ABS solenoid valve, Charge indicator lamp 1, Cooling system: Filling and bleeding, DC/DC converter: Cancel access authorisation for protected functions (SDA), ESP sensor ring test, HV batt. charge warning lamp, Ri.LED lgt.distr.: Motorw. light, Alarm system LED, Central locking: Reset adaptation values, Left ext.mirr. blind spot warng.lamp, Main beam: Actuation, Rear parking aid warning buzzer: Rear centre short-range radar sensor (near range), Rear right ABS solenoid valve, Rear right childproof lock, Rear right crossing traffic warning, Refrigerant circuit: Service mode activation, Additional heater, (High-voltage system): Actuation, Battery (12V): Encoding, Starting vibration reduction adjustment, Adapt components <Rear short-range radar sensors>: Information, Lighting test, Rear left ABS solenoid valve, Rear left crossing traffic warning, Rear parking aid warning buzzer: Rear centre short-range radar sensor (mid-range), Relay: air conditioning, Horn for alarm system, Reset HV charge cable mating cyc., Brake servo action adjustment, Electronic stability program: Activate dynamometer mode, Fault lamp, Actuator test, Adjustment: Unlocking options, Air supply solen. valve Massage 4, Air supply solen.valve Massage 9, Bad weather light right, DWA primed feedback adjustment, Fan functional test, Fr.left damper adj.val.curr. Soft, Frs./air rec/air flw.fl.ctrl.mot., Adjustment: Unlocking after key removal, Air suppl.sol.val. Lumbar supp. 1, Brake wear indicator lamp, Button illumination, Coolant temperature gauge, Cooling output test, DWA tilt sensor sensitivity adjustment, England ROW DWA alarm signal adjustment, Fr.left damper adj.val.curr. Hard, Kerb parking distance adjustment, Le.LED lgt.distr.: Dayt. dr.light, Left tourist light, Lettering test pattern, Loudspeaker (Rear parking assistant), Maximum heat output, MMI display temp. setting actu., Parking steering assistant cut-in speed adj., Rear left loudspeaker 1, Rear rght.damp.adj.val.curr. Hard, Speed indicator, TPM individual specified pressure adjustment, Horn: Actuation, Left sliding door, Turn signal lamps: Actuation, Le. LED lgt. distr.: Inters. lgt., Le.lgt.distr.: Full b. indic.lamp, Left open road light, Locking with key switch optical feedback, Locking with remote control opt. feedback, Opt. transmission power reduct., Power supply, Rear air volume CM actuation, Rear left loudspeaker 2, Reset function, Ri. LED lgt. distr.: Inters. lgt., Right air

mix flap control motor, Right seat side bolster, Seat cushion ventilation sol. valve 3, Steering wh.vibr.(lane cha. ass.), Telephone basic volume adjustment, Test announcement, Test pattern 7, Tourist light right, Vehicle length adjustment, Wheel alignment, Lens heating actuation, Move gear positioner to removal position, Parking-brake warning lamp, Rear right door handle sensor, Right exterior mirror blind spot<BR>warning lamp, Running gear control unit: Resetting adaptation values of the system <Adaptive damping system>, Central electronics control unit reset, Charge indicator lamp 2, Control lamp button load profile, Electric brake booster: System self-test, Red indicator lamp, Activate showroom mode, Activate/deactivate roller dynamometer mode, Air flap actuator, Driver's side exterior antenna, Hill Hold Control button LED, Rear entry lights, Rear parking aid warning buzzer: Rear right short-range radar sensor (mid-range), Headlight basic setting, Open differential lock, Parking brake control motor, Passenger door handle sensor, Recirculating-air flap: fresh air, Brake assistant for cross traffic, Expansion valve 2, Humidity sensor: Configuring, Lane change assist. indic.lamp stat., Luggage compartment lighting, Parking light actuat. on both sides, Rear lid lock release actuation, Fog lamp support left, Rear short-range radar sensor: Static adaptation, Vent ESP hydraulic system, Write gateway control unit configuration, Child protection, left rear, Right sliding door, Luggage compartment interior antenna, Rear lid exterior antenna, Wake-up signal, Fresh/recirculat.-air flap, ESP interchange test, HV battery immediate charging button, Right static cornering light, Terminal 58t dimming, Brake lining wear indicator: Resetting, Expansion valve 3, Lamps for fog lamp actuation, Passenger compartment lighting: Actuation, Rear parking aid warning buzzer: Rear left short-range radar sensor (mid-range), Tail light actuation, Wiper tray heating, Left air distrib. flap control motor, Rear parking aid warning buzzer: Rear left short-range radar sensor (near range), Headlight washer system actuation, Rear window washer system, Rear parking aid warning buzzer: Rear right short-range radar sensor (near range), Right air distr. flap control motor, Expansion valve 1, Lane change assistant indicator lamp, Side light actuation, Tyre pressure indicator reset, Right backrest adjustment motor, Left seat backrest lock, Right seat backrest lock, Rear fog light actuation, Ambient lighting: Actuation, Electric air conditioner compressor, Front windscreen washer system, Activate system, Brake stabilization adjustment, EMC test mode, Fog lamp support right, Hill hold control warning lamp, Passenger's side exterior antenna, Rear axle full deceleration adjustment, Rear left door handle sensor, Vehicle electrical system control unit: Diagnosis of the system <Onboard electrical system (48V)>, Left backrest adjustment motor, LEDs, Teach force limitation, Learn backrest end stop

### **101 new Actuation type special tests:**

5th Camera Activation Request Control Value 1, A/C Compressor Regulator Valve, Activation Of Parking Spot Search Park Assist Control Value, Air Flow Flap Control Motor, Air Recirculation Flap Control Motor, Automatic Calibration Headlamp Test Mode Control Value, Auxiliary Heater Heater Element, Button Automated Driving Lighting Test Control Value, Central Flap Positioning Motor, Central Vents Control Motor, Cold Air Flap Control Motor Front, Compressor Run-In/Cooling Check, Coolant Circulation Pump, Coolant Fan Control Module, Coolant Fan, Defined Segment Control Matrix Headlamp Left, Defined Segment Control Matrix Headlamp Right, Defroster Flap Control Motor, Display For Lane Departure Warning Control Value, Display Road Sign In Dash Panel Insert Control Value, Display Road Sign In Dash Panel Insert, Display: Black Segments, Display: Red Segments, Dr Hazard Warn At Danger Coli Wt A Person Tst Ctrl Val, Driver Hazard Warning At Danger Of Collision With A Person Test, Footwell Flap Control Motor Left, Footwell Flap Control Motor Right, Footwell Vent Positioning Motor Rear, Fresh Air Blower, Front Parking Aid Loudspeaker Control Value, FV Safe State Simulation Control Value, Green Indicator Lamp For Lane Departure Warning Control Value, Green Indicator Lamp For Lane Departure Warning, Headlamp Left High Beam Segment Control Test Control Value, Headlamp Left Low Beam Segment Control Test Control Value, Headlamp Right High Beam Segment Control Test Control Value, Headlamp Right Low Beam Segment Control Test Control Value, Heat Regulation Valve Left, Heat Regulation Valve Right, Heated Rear Window, Heated Seat Front Left,

Heated Seat Front Right, 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, Heated Windshield, Heating Test Control Value, HVAC Test, Indirect Ventilation Flap Control Motor, Individual Segment Control Matrix Headlamp, Interior Temp Sensor Fan, Lane Change Assist Warning Lamp In Driver Side Exterior Mirror, Lane Change Assist Warning Lamp In Front Pass Side Ext Mirror, Lane Change Assist Warning Lamp Instrument Cluster, Lane Change Assist Warning Lamp, Lane Chng Asst Warn Lmp In Lt Extrior Mir Ctrl Val On Off, Lane Chng Asst Warn Lmp In Lt Extrior Mir Ctrl Val, Lane Chng Asst Warn Lmp In Rt Extrior Mir Ctrl Val, Lane Chng Asst Warn Lmp Inst Clus Ctrl Val, Lane Departure Warning Indicator, Lens Heater Control Value, Main Beam Activation Control Value, Main Beam Activation, Main Beam, Manoeuvre Light Request Control Value 1, Output Tests (03), Park Assist Activation Of Partner Control Units Control Value, Parking Aid Activation Control Value, Parking Aid Button Indicator Light Test Control Value 1, Parking Aid Button Indicator Light Test, Rear Parking Aid Loudspeaker Control Value, Reference Segment Control Matrix Headlamp Control Value, Reference Segment Control Matrix Headlamp, Request Cleaning Laser Scanner Test Control Value, Reserved VW Common Control State, RTA Warn Signal Control Value, Segment Test, Speed Change Of Mirror Adjustment Motor Test Control Value, Steering Wheel Vibration Control Value, Steering Wheel Vibration, Swinging Logo Test Control Value 1, Swinging Logo Test, System Adjustment Control Value, System Adjustment, System Identification, Temperature Flap Motor Left, Temperature Flap Motor Right, Theft Protection Control Value, Theft Protection, Topview Camera Cleaning Request Control Value 1, Topview Camera Display Test Control State, TV Camera Activation Request Control Value 1, Video Signal Test Input Output Control Parameter, Warning Lamp For Adaptive Light Test Control Value, Warning Lamp, Windscreen Heater For Camera Control Value, Windscreen Heater For Camera, Windscreen Heater For Lane Departure Warning, Yellow Indicator Lamp For Lane Departure Warning Control Value, Yellow Indicator Lamp For Lane Departure Warning

## ***Jaguar Coverage\****

- Added coverage for 77 new system applications

### **227 new Workflow tests:**

Bleed fuel system, Electric parking brake: Actuator test, Electrohydraulic brake booster: Deactivate/activate, Interval display service: Resetting, Running gear control unit: System self-test, Trailer coupling: Service mode activation, Tyre pressure monitoring system self-test, Variable valve lift control: Resetting, Automatic transmission control unit: System self-test, Central electronics control unit: VALET mode (reset), Compressor supercharging: Test, Network: Hard reset, No-load current control unit: Adapting, Running gear control unit: Set suspension height, Trailer coupling: Test, ABS warning lamp, Airbag indicator lamp, Battery adaptation, Central electronics control unit: System self-test with actuator test, Enter a new valve code manually, Front fog headlight, Gateway: System self-test, Reset transmission adaption values, Right turn signal indicator lamp, Sun roof adaptation, Suppress mirror glare, Transfer case calibration, Transfer case pump vent, A/C control unit system self-test, Battery (high-voltage): Adapt the component <Battery cell monitoring module>, Battery (high-voltage): Restart, Coolant 3-way solenoid valve, Battery (high-voltage): Test, Electric power steering: Activate customer mode, Electric power steering: Resetting stored temperature values, Electrohydraulic brake system: Leakage test of the component <Brake master cylinder>, HV battery cell evaluation, HV battery charge, Rear inverter: System self-test, Steering wheel angle sensor: System self-test, Transfer el. power steering configuration, Engine management system self-test, Head-up display: Test, Central electronics control unit reset, Deactivate parking brake for pad replacement, DS door control unit: Test, Activate parking brake after pad replacement, Throttle valve adaptation, Upper control panel: System self-test, A/C compressor: Activate, Airbag system: System self-test, Electric

power steering: Test, Rain/light sensor: Adapting, Running gear control unit: Enabling dynamic suspension system, Running gear control unit: Resetting adaptation values of the system <Adaptive damping system>, Safety/gateway control unit: Check communication, Tyre pressure sensor test, Access system/immob. antenna test, Access/start authorization control unit: System self-test, Activate service mode, Battery replacement, Driver side seat control unit: System self-test, Fr.left damper adj.val.curr. Hard, Front right damper solenoid valve 1, Head restraint adjustment: Up, Infotainment control unit: System self-test, Infotainment/multimedia control unit: Restart, Left turn signal indicator lamp, Quiescent current control module calibration, Rear right damper solenoid valve, Rear right damper solenoid valve 1, Rear-lid system self-test, Side marker lamp warning, Telematics control unit: Read network registration status, Telematics control unit: System self-test, Air distribution flap control motor: Adapting, Battery (high-voltage): Battery state test (State of Health), Electric drive control: System self-test, Electric drive motor dog clutch: Test, Passenger door window lifter adaptation, Rear heating/air cond. operating element: System self-test, Refrigerant circuit: Service mode activation/deactivation, Selector lever module: System self-test, Trailer control unit: System self-test, Ambient air temperature sensor: Resetting, Battery management control unit (48V): System self-test, ABS/ESP system: Static test, Headlamp setting, Headlamp: System self-test, Reading-out inflation pressure sensor code, Trailer coupling: Service mode deactivation, Tyre pressure sensor adaptation, A/C compressor adaptation, Commissioning electric parking brake, Electric power steering: Reset adaptation values, Instrument cluster system self-test, Loudspeaker: Test, Audio amplifier, Headset: Connection test, Backrest adjustment to front, Backrest adjustment to rear, Childproof lock button LED, Control unit configuration, Front left damper solenoid valve, Front window lifter: Lower, LED mirror selector switch, left, PS window-lifter motor: Close, Rear rght.damp.adj.val.curr. Hard, Rear window lifter: Lift, Seat cushion down, Traction control control unit: System self-test, Transmission oil change interval reset, Electric drive control: Coolant circuit filling, Front inverter: System self-test, HV battery charging module: Enabling of locked functions, HV battery charging module: System self-test, Electro-hydraulic brake system: Leakage and air inclusion test (hydraulic system), Infotainment/multimedia display: Inclination angle test, Activ./deactiv. ch.-air cooler circul. pump, Autom. transm. adaptation values reset, Rear-axle diff. lock system self-test, Transfer case control unit: System self-test, Adaptive suspension system factory setting, Backrest side bolster air supply, Battery system test, Deactivate service mode, DS window-lifter motor: Opening, Electric parking brake initialization, External noise volume adjustment, Fan functional test, Front left damper solenoid valve 1, Infotainment control unit: Testing component <Control unit box fan motor>, Learn steering end stop, Lumbar support adjustment, Offroad mode: Resetting operating conditions, Parking aid control unit: Resetting, Parking aid control unit: System self-test, PS window-lifter motor: Opening, Read configuration, Telematics network registration status, Telematics SIM card type, Traction control lamp, Cooling system: Deactivate/activate, Battery (48V): Charge level, All-wheel drive system: Test, Electric parking brake: Deactivating the production mode, Transmission control: Read adaptation values, Central electronics control unit: Reset history of vehicle warnings, Longit. accel. sensor zero pos. calibration, Rear fog lamp indicator lamp, Seat fore-and-aft adjtm. To front, Side marker light warning lamp, Suspension level calibration, Air-conditioning system: Activate seat climate control, Battery (high-voltage): Diagnosing state, Driver door window lifter adaptation, Infotainment/multimedia display: Test, Low-voltage system: Current cut-off, Engine management adaptation values reset, DC/DC converter: System self-test, Traction control control unit: Restart, Gasoline particulate filter regeneration: Static, DS window-lifter motor: Close, LED mirror selector switch, right, Passenger door window lifter initialization, Telematics control unit: Read operating mode, Interior coolant circuit: Activate, Head-up display: System self-test, Transfer case control unit: Reset adaptation values, Activate air suspension, Audio/telematics system reset, Auxiliary battery (12V): Resetting, Driver seat adaptation, Front window lifter: Lift, Oil pressure indicator lamp, Passenger seat adaptation, Rear left damp.adj.val.curr. Hard, Rear left damper solenoid valve 1, Rear lid adaptation, Rear window lifter:

Lower, Seat adjustment/seat height down, Seat cushion adjustment, back, Seat cushion up, Temperature warning light, Battery (high-voltage): Battery temperature test, DC/DC converter: Deactivate/activate, Write A/C control unit configuration, Mixture correction: Read out values, Backrest side bolster air venting, Passenger side seat control unit: Test, Rear left damper solenoid valve, Seat fore-and-aft adjust. To rear, Suspension geometry setting, System self-test, Telematics control unit: Read SIM card type, Tyre pressure sensor adaptation, Engine control unit: Misfiring, read out values, AHRC/xenon light calibration, Audio amplifier: Test, Head restraint adjustment: Down, Lighting element test, Lumbar support air pump, Main beam assistant, Seat cushion adjustment, forwards, Telematics control unit: Testing component <Emergency battery (low voltage)>, Telematics system backup battery test, Transfer case type encoding, Air-conditioning test, Battery (high-voltage): Battery voltage test, Battery (high-voltage): Reading out the current capacity, SOH (State of Health), High-voltage batt. management contr.unit: System self-test, High-voltage refrigerant compressor: Adapting, Transfer case oil pump: Bleeding, Deactivate air suspension, Front right damper solenoid valve, Reset PIN code, Cooling circuit control valve: Test, Parking lock: Test, Parking-brake warning lamp, Battery (high-voltage): Coolant circuit filling, Electric drive control (Rotor position sensor): Read calibration offset angle, Electric drive control: Adapting, Central electronics ECU system self-test, Driver door window lifter initialization, Fr.rght.damper adj.val.curr. Hard, Puddle lamp, Seat adjustment/seat height up, Steering basic setting, Starter generator: System self-test

## ***Land Rover Coverage\****

- Added coverage for 142 new system applications

### **104 new Workflow tests:**

A/C compressor adaptation, Air distribution flap control motor: Adapting, Bleed fuel system, Compressor supercharging: Test, Electric drive control: System self-test, Mixture correction: Read out values, Passenger door window lifter adaptation, Rear-axle diff. lock system self-test, Running gear control unit: Locking the system <Level control>, Selector lever module: System self-test, Trailer control unit: System self-test, Tyre pressure monitoring system self-test, Ambient air temperature sensor: Resetting, Automatic transmission control unit: System self-test, Battery management control unit (48V): System self-test, Electric parking brake: Actuator test, Electric parking brake: Deactivating the production mode, Electric power steering: Reset adaptation values, Electric power steering: Test, Rain/light sensor: Adapting, Running gear control unit: Set suspension height, Safety/gateway control unit: Check communication, Tyre pressure sensor test, Activate parking brake after pad replacement, DC/DC converter: System self-test, DS door control unit: Test, Engine management system self-test, Headlamp: System self-test, Head-up display: System self-test, Starter actuation counter reset, A/C compressor: Resetting, Airbag system: System self-test, Deactivate parking brake for pad replacement, Engine management adaptation values reset, Gateway: System self-test, Head-up display: Test, High-voltage batt. management contr.unit: System self-test, HV battery charging module: System self-test, No-load current control unit: Adapting, Running gear control unit: Resetting adaptation values of the system <Adaptive damping system>, Battery (high-voltage): Coolant circuit filling, Central electronics control unit: VALET mode (reset), Running gear control unit: System self-test, Central electronics control unit: Release of disabled functions, Electric power steering: Resetting stored temperature values, Electrohydraulic brake booster: Deactivate/activate, Headlamp setting, Reading-out inflation pressure sensor code, Steering wheel angle sensor: System self-test, Trailer coupling: Service mode activation, Autom. transm. adaptation values reset, Electro-hydraulic brake system: Leakage test of the component <Brake master cylinder>, Rear heating/air cond. operating element: System self-test, A/C control unit system self-test, Network: Hard reset, Running gear control unit: Build up system pressure of the system <Air suspension>, Sun roof adaptation, Traction control control unit: Restart, Transfer



case control unit: System self-test, ABS/ESP system: Static test, Gasoline particulate filter regeneration: Static, Electric power steering: Activate customer mode, Engine control unit: Misfiring, read out values, Sun shade adaptation, Transfer el. power steering configuration, Interval display service: Resetting, Variable valve lift control: Resetting, Loudspeaker: Test, Trailer coupling: Service mode deactivation, Activ./deactiv. ch.-air cooler circul. pump, Driver door window lifter adaptation, Offroad mode: Resetting operating conditions, Trailer coupling: Test, Upper control panel: System self-test, Electro-hydraulic brake system: Leakage and air inclusion test (hydraulic system), Infotainment/multimedia display: Inclination angle test, Battery adaptation, HV battery charging module: Enabling of locked functions, Infotainment/multimedia display: Test, Power electronics (hybrid system): system self-test, A/C compressor: Activate, Engine oil service life reset, Instrument cluster system self-test, Rear-lid system self-test, Central electronics ECU system self-test, Throttle valve adaptation, Running gear control unit: Dissipate system pressure of the system <Air suspension>, Commissioning electric parking brake, Running gear control unit: Set air suspension mode, Traction control control unit: System self-test, Tyre pressure sensor adaptation, DC/DC converter: Deactivate/activate, Injectors: Test, Rear axle steering control unit: System self-test, Starter generator: System self-test, Transmission position P adaptation, Active stabiliser control unit HA: System self-test, Active stabiliser control unit VA: System self-test, Internal combustion engine: Coolant circuit filling, Gasoline particulate filter: Resetting, Transfer case control unit: Reset adaptation values, Engine control unit: Reset adaptation values, Evaporative-emission regen. valve test, Transfer case oil pump: Bleeding

## **Porsche Coverage**

- Added coverage for 135 new system applications

### **5 new Adjustment type special tests:**

Quickstart - Reset Of Adaption Values, Replace Control Unit: Transfer Configuration, Reset Frequency Counter, Reset of Adjustment/Calibration Values, Transfer Configuration

### **27 new Workflow tests:**

Interval display service: Resetting, ESP steering wheel angle sensor adaptation, Battery adaptation, Rear short-range radar sensors: Static adaptation, Main beam assist. indicator lamp, Front driver assistant cam. static adaptation, Window heating: Camera range, ESP hydraulic-system bleeding, Front radar sensor: Static adaptation, Activate parking brake after pad replacement, Short-range cameras: Static adaptation, Display: Road sign display, Rear short-range camera: Static adaptation, Front radar sensor static setting, Transfer front driver assist. camera config., A/C compressor adaptation, Tyre pressure sensor adaptation, Deactivate parking brake for pad replacement, Battery (12V): Encoding, El. power st. st. wheel angle sens. adapt., Driver warning pedestrian prot., Lane keeping assist display, Yellow lane keep.ass. indic. lamp, Activation: Actuator test, Green lane keep.ass. indic. lamp, Front left radar sensor: Static setting, Front right radar sensor: Static setting

### **43 new Actuation type special tests:**

5th Camera Activation Request Control Value 1, Activation Of Parking Spot Search Park Assist Control Value, Automatic Calibration Headlamp Test Mode Control Value, Button Automated Driving Lighting Test Control Value, Defined Segment Control Matrix Headlamp Left, Defined Segment Control Matrix Headlamp Right, Display For Lane Departure Warning Control Value, Display Road Sign In Dash Panel Insert Control Value, Display Road Sign In Dash Panel Insert, Dr Hazard Warn At Danger Coli Wt A Person Tst Ctrl Val, Driver Hazard Warning At Danger Of Collision With A Person Test, Front Parking Aid Loudspeaker Control Value, FV Safe State Simulation Control Value, Green Indicator Lamp For Lane Departure Warning Control Value, Green Indicator Lamp For Lane Departure Warning, Headlamp Left High Beam Segment Control Test Control Value, Headlamp Left Low Beam Segment Control Test

Control Value, Headlamp Right High Beam Segment Control Test Control Value, Headlamp Right Low Beam Segment Control Test Control Value, Individual Segment Control Matrix Headlamp, Lane Departure Warning Indicator, Main Beam Activation Control Value, Main Beam Activation, Main Beam, Manoeuvre Light Request Control Value 1, Park Assist Activation Of Partner Control Units Control Value, Parking Aid Activation Control Value, Rear Parking Aid Loudspeaker Control Value, Reference Segment Control Matrix Headlamp Control Value, Reference Segment Control Matrix Headlamp, Steering Wheel Vibration Control Value, Steering Wheel Vibration, Swinging Logo Test Control Value 1, System Identification, Topview Camera Cleaning Request Control Value 1, TV Camera Activation Request Control Value 1, Warning Lamp For Adaptive Light Test Control Value, Warning Lamp, Windscreen Heater For Camera Control Value, Windscreen Heater For Camera, Windscreen Heater For Lane Departure Warning, Yellow Indicator Lamp For Lane Departure Warning Control Value, Yellow Indicator Lamp For Lane Departure Warning

## ***Volkswagen Coverage***

- Added coverage for 165 new system applications

### **53 new Adjustment type special tests:**

Adaptation (10) / Long Adaptation (0A), Adaption After Adjustment, Basic Setting Seat Occupied Recognition, Basic Settings (04), Battery Separating Deactivation, Battery Separating Relay Deactivation, Braking to Standstill, Camera/Video Brightness, Camera/Video Contrast, Camera/Video Saturation, Collision Prevention 1 (Special Methods 1), Collision Prevention 2 (Front-Assist), Component Protection (Vehicle Identification Number), ESP-Data (Brakes), ESP-Data (Powertrain), Front Driver Airbag Deactivation, Front Driver Belt Tensioner Deactivation, Front Driver Head Airbag Deactivation, Front Driver Side Airbag Deactivation, Front Passenger Airbag Deactivation, Front Passenger Airbag Shut-Off Switch Deactivation, Front Passenger Belt Tensioner Deactivation, Front Passenger Head Airbag Deactivation, Front Passenger Side Airbag Deactivation, Hydraulic Brake Assistant (Special Methods 2), Learned Values (Vehicle Data), Locking for Coding/Flashing, Log-in(11) Adaptation(10), Log-in(11) Basic Settings(04), Log-in(11) or Coding II(11), Null Balance Seat Occupied Recognition, Passenger Seat Occupation Recognition Sensor Deactivation, Quickstart - Reset Of Adaption Values, Rear Center Belt Tensioner Deactivation, Rear Driver Belt Tensioner Deactivation, Rear Driver Side Airbag Deactivation, Rear Passenger Belt Tensioner Deactivation, Rear Passenger Side Airbag Deactivation, Replace Control Unit: Transfer Configuration, Reset Frequency Counter, Reset of Adjustment/Calibration Values, Roll-Over Bars Deactivation, Roll-Over Bars Trigger Counter Reset, Seat Occupied Recognition Control Module Basic Setting, Seat Occupied Recognition Reset, Seat Occupied Recognition, Security Access (16) Adaptation (10) / Long Adaptation (0A), Security Access(16) Basic Settings (04), SWaP Function Crypt Data ID, SWaP Function Transfer Crypt Data, System Shut-off, Transfer Configuration, Variant Encoding

### **1136 new Workflow tests:**

A/C compressor, ABS pump motor, Actuation of all control motors, Adapt components <Rear short-range radar sensors>: Information, Additional heater glow plug: Reset adaptation values, Additional interior lighting, Bi-xenon screen, Brake pad replacement step 2, Button LED green, Button LED magenta, Central locking, Central locking system: open, Circulating pump, Dipped beam actuation, Display 1, Door power latching system, Driver warning pedestrian prot., Flexible service interval adjustment, Footwell flap control motor, Fresh-air flap / Recirculated-air flap, Front acoustic signal volume, Front radar sensor static setting, LED headlamp fan motor 1: Actuation, LED headlamp: Channel 4 actuation, LED headlamps: High-side channel 2, Left motorway light, Left open road light, Left trailer stop lamp, Lens heating actuation, Load compartment cover basic setting, Magnetic

coupling: air conditioner, Move gear positioner to removal position, Move left headlamp vertically, Online service transmiss. config., Operating unit illumination, Power door latching sys.actuation, Program sensor code, Rear central locking Unlock, Refrigerant shut-off valve (Air-conditioning system), Remote control vehicle locking, Retract trailer coupling, Ri. light distr.: Light/dark lim., Right temperature flaps servomotor, Right trailer stop lamp, Side marker lamps, Sun roof adaptation, Taxi alarm, Temperature door positioning motor, Terminal 58t dimming, Test image yellow, Test sound, Trailer indicator lamp, Transfer configuration, Transfer front radar sensor configuration, Two-way radio, Window heating: Camera range, A/C compressor adaptation, Activate antenna 1, Activate component protection, Activation tone adjustment, Actuation/charging flap unlocking 1, Adjust mirror downward, Adjust mirror upward, Air distribution flap, Airbag indicator light OFF, Average consumption display correction, Brake light, Brake warning lamp, Button LED red, Charge connection<BR>Charge connector lock, Check link with server, Close load compartment cover, Control unit output terminal 30, Control unit: Request access authorisation, Display: Road sign display, Driving school acoustic warning, Electr. air suppl. heater actuation, Electric fuel pump, Emergency brake, Fan actuation, Fault display, Front acoustic signal frequency, Front flashing light actuation, Front right seat heating, Function light 1, Gong control, Gradual rear lid closing, Headlamp fan actuation, Headlamp pos. right horiz. center, Headlamp: Left horizontal centre position, HV batt.charger connector locking, HV battery charging module: Cancel access authorisation for protected functions (SDA), Ignition key removal lock, Lane keep.assist: Warning LED off, Leakage test function, LED (HV charging connection): Actuation, LED channel 3 actuation, LED headlamps: High-side channel 4, Left air mix flap control motor, Left trailer side light lamp, Lift sunroof, Loudspeaker test, Luggage compartment cover adaptation, Main beam, Matrix headlamp reference segment, Open load compartment cover, PS window-lifter motor: Close, Rear air distribution flap control motor, Rear dr.side PW: Open signal, Rear left seat ventilation, Rear right seat heating, Rear seat heating, ACC button LED, Activate energy saving mode, Additional main beam, Button LED blue, Close all-wheel pump solen. valve, Closed circuit relay, Compressor run-in, Coolant shutoff valve, Driver's side exterior antenna, Dynamic flashing, Dynamic light assist: Light function actuation, Electric power steering: Reset adaptation values, Footwell lamps, Front driver assistant cam. static adaptation, Front left ABS solenoid valve, Front right ABS solenoid valve, Function kink angle sensor, Headlamp position vertical centre, Headlamp position vertical top, Headlamp: Left horizontal external position, Headlamp: Left vertical top position, Headlight basic setting, High-side channel actuation, Le. lgt.distr.: Country road lgt., LED channel 1 actuation, Left headlamp light distribution, Light control: Left-hand/right-hand drive resetting, Luggage compartment interior antenna, Move left headlamp horizontally, Open sun blind, Parking brake indicator lamp, Passenger compartment lighting, Passenger side rear window lifter, Rear fresh air blower, Rear left sun blind, Rear pass.side PW: Closing signal, Rear pass.side PW: Open signal, Rear window lifter: Lift, Rear window roller blind motor, Refrigerant shut-off valve 1, Reset adaption to factory setting, Right trailer turn signal indicator, Right/left-hand drive configuration, SHA: Dr.side mirror warng.LED off, SHA: Instr.cluster warng. LED off, SHA: Instr.cluster warning LED on, SHA: Pass.side mirr.warng.LED off, Static cornering light, Supplementary heater circulating pump: Reset adaptation values, Test image cyan, TPM individual specified pressure adjustment, Trailer brake control, Trailer rear fog light, Trailer side light, Write configuration, Yellow warning lamp, Additional indicator lamp panel, Brake servo action adjustment, Close clutch, Close sun blind, Control lamp (Parking assistant), Coolant pump switching valve, Country version encoding, Driver side door light actuation, Flame monitor/glow element unit, Fresh-air blower, Front central locking Lock, Gateway: Configure pause recommendation, Green lane keep.ass. indic. lamp, LED headlamps: High-side channel 1, LED headlamps: High-side channel 3, Multi-function steering wheel: Lighting, Parking-brake warning lamp, Passenger door handle sensor, Programming, trailer coupling, Rear central locking SAFE, Rear lid basic setting, Rear right door handle sensor, Sun shade adaptation, Yellow lane keep.ass. indic. lamp, Activate/deactivate roller dynamometer mode, Analog clock, Brake pad replacement step 1, Combustion air blower, Deactivate

gateway ctrl. unit transport mode, Electric fuel pre-supply pump, Emergency call system: Resetting after replacement of the component <Emergency battery (low voltage)>, Extend mirror, Fan Control, Front central locking SAFE, Fuel metering pump, Gateway: Check no-load current, Glow plug system, Gradual rear lid opening, Hill Hold Control button LED, Ignition lock: Check locking, Rear short-range radar sensors: Write configuration, Rear side light, Ri. lgt. distr.: Country r. light, Right light distr.: Urban light, Right motorway light, Right trailer side light lamp, Running gear control unit: Resetting adaptation values of the system <Adaptive damping system>, Seat depth adjustment, Start valid authentication, Steering wheel vibration, Tone seq. switching (urban/rural), Trailer brake lights, Trailer control: Overall vehicle configuration, Trailer warning light 2, Transfer A/C control unit configuration, Transmission adaptation basic setting 1, Transmission oil level test, Vertical headlamp servomotor, Wake-up signal, Warning tone generator, Analogue display test, Backrest adjustment, Battery (12V): Checking of components <Battery cells>, Battery adaptation, Blue test pattern, Braking mode, Child safety lock, Crash signal/all belt tensioners, DS window-lifter motor: Close, DS window-lifter motor: Opening, Electric power steering: Configuring, Emergency call system: Functional test, Front door light, Front window lifter: Lower, Head restraint adjustm. to front, Hill hold control warning lamp, LED wiper switch, Lumbar support longit. adjustment, Microphone test, Rear acoustic signal frequency, Rear door light, Rear left ABS solenoid valve, Rear short-range camera: Write configuration, Seat height adjustment, front, Selector lever lock, Short-range cameras: Transfer configuration, Sun roof: Opening, Supplementary heater: Test, Trailer socket power supply<BR>Pin 10, Transfer el. power steering configuration, Transfer front driver assist. camera config., Water Pump, Airbag control unit: Roll-over protection test, Alternator: Functional test, Anti-theft device, Display illumination, Display: Test, Fault lamp, Front interior antenna, Function light 2, HV batt.charging func. rem.ctrl., Left outer brake light, Microph. signal via audio output, Mirror heating, Multi-contour seat compressor, Mute entertainment, Rear dr.side PW: Closing signal, Reset adaptation parameters, Reversing lamps, Search illumination, Supplementary heater: Adaptation of the component <remote control unit>, Supplementary heater: Reset starter interlock, System functional test, Test screen, Transmission rapid adaption, Airbag control unit: Reset counter (roll-over protection triggerings), Belt comfort fit actuator, Brake disc drying adjustment, Emblem camera, Front parking assist. loudspeaker, Activate antenna 3, Activate gateway control unit transport mode, Activate setup tool, Adjust mirror inward, Air quality sensor: Configuring, Antenna module: Cancel access authorisation for protected functions (SDA), Button LED cyan, Button LED yellow, CD/DVD ejection, Central locking system: close, Cruise control indicator lamp, Daytime driving light, Display test, text, Dynamic cornering light, Electric power steering: Encoding, EMC test mode, External noise volume adjustment, Fog lamp support right, Front air distr. flap ctrl. motor, Headlamp pos. right vert. center, Headlamp setting, Heating water valve, Le. light distr.: Light/dark lim., LED dimming interior mirror, LED headlamp fan motor 3: Actuation, LED headlamp fan motor 4: Actuation, Left light distr.: Urban light, Left loudspeaker test, Left static cornering light, Left temperature flaps servomotor, Left turn signal indicator, Main beam assist. indicator lamp, Mirror adjustment To left, Rear central locking Lock, Activate remote control, Air flap actuator, Basic setting, Battery separation relay, Blinker, CAN data bus: Write configuration, Central locking: Remote control, Compass display, Daytime driving light actuation, Defrost flap right, Fr.left window defroster flap CM, Front left seat heating, Headlamp pos. right vert. bottom, Headlight range control, Instrument cluster indicat. lamps, Learning of info on control units fitted, Left light distr.: Motorway light, Left main beam, Move gear positioner to neutral position, Nozzle heating, Power supply with exh.disch.prot., Power supply, terminal 15, PS window-lifter motor: Opening, Rear flashing light actuation, Rear parking aid warning buzzer: Rear left short-range radar sensor (near range), Rear parking aid warning buzzer: Rear right short-range radar sensor (near range), Right loudspeaker test, Right outer brake light, Right static cornering light, Seat heating configuration, Seat position Normal, SHA: Warning LED KI PASSIVE, Side light, Start/stop button simulation, Structure-borne noise volume adjustment, AC/heating funct. via rem.control, Activate system, Brake stabilization adjustment, Extend trailer coupling, Front short-range

camera: Test pattern, Fuel preheating, Head restraint adjustment, Muting, Open clutch, Park Distance Control switch LED, Passenger's side exterior antenna, Rear left door handle sensor, Rear lid: Close, Rear lid: Opening, Rear short-range camera: Static adaptation, Rear short-range camera: Transfer configuration, Right turn signal indicator, Supplementary heater: Encoding, Telephone op. unit button illum., Vehicle electrical system control unit: Diagnosis of the system <Onboard electrical system (48V)>, White test pattern, Activate parking brake after pad replacement, Auto-hold button LED, AC/heat output test, Actuator/structure-borne noise, Additional turn signal indicator, Air distribution control mot: front, Air flow flap control motor, Audio reduction adjustment, Compressor magnetic clutch, Compressor run-in time adaption, Continued engine operation circuit, Door interior handle illumination, Driver door handle sensor, Driving program switch, El. power st. st. wheel angle sens. adapt., Emergency call system: Manual emergency call, Fixed service interval adjustment, Fog lamp support left, Footrest adjustment, Fr.right window defrost. flap CM, Front axle torque request, Front driver assistance camera: Cancel access authorisation for protected functions (SDA), Headlamp pos. right horiz. inner, Indirect ventilation vent flap, Individ. matrix headlamp segment, Lane keep.assist: Warning LED on, Lane keeping assist display, Mechanical system display unit 1, Menu-driven configuration, Move right headlamp horizontally, Open all-wheel pump solen. valve, Operating unit button illuminat., Parking light, Rear parking aid warning buzzer: Rear centre short-range radar sensor (mid-range), Rear parking aid warning buzzer: Rear left short-range radar sensor (mid-range), Rear right ABS solenoid valve, Retract mirror, Short-range cameras: Static adaptation, Steering wheel heating, Air-conditioning system control unit reset, Alternator test 15.0 V, Drive program, Error text output, ESP brake pressure sensor adaptation, Fixed service interval configuration, Fresh-air flap control motor, Front right seat ventilation, Gateway: Cancel access authorisation for protected functions (SDA), Hydraulic fluid pump, Infotainment/multimedia display: Resetting, LED headlamp fan motor 2: Actuation, Lumbar support height adjustment, Mirror adjustment To right, Parking brake operating unit LED, Rear fog light, Rear left seat heating, Rear lid power latching system, Activate TV stand.country setting, Actuate charging connect. 1 LEDs, Adopt.of unfiltered ambient temp., Air conditioner control motors: Adapting, Air supplementary heating, Black test pattern, Button LED white, Control unit box fan motor, Coolant circulation pump, Corner lamps, Defrost flap control motor, Defrost flap left, Driver side mirror adjustment, Electric supplementary heater, Electronic stability program: Activate brake dynamometer mode, External noise actuator, Front central locking Unlock, Front window lifter: Lift, Front-passenger airbag indicator lamp, Head restraint adjustment: Up, Headlamp pos. left horiz. inner, Headlamp position vertical bottom, HV charging connection: Reset the number of charging cable mating cycles, Interval display service: Resetting, LED headlamp: Design light, Left exterior mirror blind spot<BR>warning lamp, Left urban light, Loudspeaker (Rear parking assistant), Parking steering assistant control lamp, Pause display, Rear acoustic signal volume, Rear indicator lamp, Rear lid adaptation, Starting vibration reduction adjustment, Break recommendation, Central electronics control unit: Reset learning values, Deactivate parking brake for pad replacement, ESP hydraulic-system bleeding, Headlight washer system relay, Indicator light, hazard flasher, Instr. cluster all displays off, Instrument cluster control unit: Cancel access authorisation for protected functions (SDA), Rear centre belt catch light, Rear lid central locking, Segment test, Trailer reversing light, Trailer socket power supply<BR>Pin 9, Central electronics control unit: Cancel access authorisation for protected functions (SDA), Control lamps, Display 2, ESP control unit: Cancel access authorisation for protected functions (SDA), Front left ABS inlet valve actuation, Gong, Open differential lock, PS belt buckle illumination, Rear left belt catch lighting, Rear right central locking motor, Recirculated-air flap control motor, Right headlight range control Up, Supplementary heater: Configuring, Terminal 58d<BR>(dimming for interior lighting), Transfer transmission ECU configuration, Transmission control: Reset configuration, Transmission oil pressure accumulator: Pressure build-up, Transmission oil pressure accumulator: Pressure reduction, Windshield wiper service position, Automatic transmission oil level check, Auxiliary/supplementary heating: Fill and bleed the component

<Fuel supply pipe>, Auxiliary/supplementary heating: Metered quantity measurement (fuel), Dipped beam, DS belt buckle illumination, Fr. right ABS inlet valve actuation, A/C compressor: Actuation, Activate antenna 2, Center air vent positioning motor, Clean clutch, CU output terminal 30 controlled, Driving school rem.ctrl.indic.LED, Electronic stability program: Activate dynamometer mode, Emergency call system: Loudspeaker, Front fresh air blower, Green test pattern, Headlamp pos. left vert. center, Headlamp pos. right horiz. outer, Headlamp pos. right vert. top, Headlamp: Left vertical bottom position, HV battery cooling heat exchanger, Heat exchanger shut-off valve, LED channel 2 actuation, Left stat.crng.light act. 100%, Left trailer turn signal indicator, Lft light distr.: Aut. main beam, Load compartment light, Move right headlamp vertically, No-load current test, Rear parking aid warning buzzer: Rear centre short-range radar sensor (near range), Rear window lifter: Lower, Ri. lgt. distr.: Aut. main beam, Right exterior mirror blind spot<BR>warning lamp, Right headlamp light distribution, Right urban light, Seat angle adjustment, SHA: Pass.side mirr. warng.LED on, Supplementary heater: Reset adaptation values, Suppress mirror glare, Test mode, Rear interior antenna, Rear parking aid warning buzzer: Rear right short-range radar sensor (mid-range), Rear radar sensor: Transfer configuration, Right open road light, Right stat.crng.light act. 100%, Roof sign, Test image magenta, Tone seq.syst.activ.via horn act., Sun roof: Close, Transfer vehicle configuration, Transmission adaptation basic setting 3, Red test pattern, Seat fore-and-aft adjustment, Recirculating-air flap: fresh air, Refrigerant compressor relay, Reset start/stop counter, Seat memory position 2, SHA: Dr.side mirror warng. LED on, Side marker light, Special signal system, Status: Charging flap release, Turn signal lamps, Vehicle speed, Weapons box, Write gateway control unit configuration, Rear lid exterior antenna, Short-range cameras: Write configuration, Unlock trailer coupling, Rear window washer pump, Supplementary heater, Front fog headlight, Front-passenger airbag indicator lamp (OFF), Horn, Indicator lamp for<BR>passenger-compartment monitoring, Rear temperature flap control motor, Windscreen wiper, Rear right seat ventilation, Rear short-range radar sensors: Static adaptation, Refrigerant shut-off valve 2, Ri. light distr.: Motorway light, Right main beam, Start release ext. update process, Status: Battery charge button, Supplementary heater: Adapting, Torque converter lock-up clutch, Trailer brake actuation output, Transmission adaptation basic setting 2, Vent ESP hydraulic system, Windscreen heater, Turning light, Control unit housing fan actuation, Multimedia display 2: Test pattern, Rear left central locking motor, Additional heater, (High-voltage system): Actuation, Alarm system LED, Battery (12V): Encoding, Central locking: Reset adaptation values, Electric drive control: Cancel access authorisation for protected functions (SDA), Battery (high-voltage): Readout of the current capacity, Brake light: Actuation, Cooling system: Filling and bleeding, Electric coolant pump (HV battery coolant circuit): Control, Gateway control unit reset, HV battery cell evaluation, Left air distrib. flap control motor, Loudspeaker: Channel 1, Loudspeaker: Channel 12, Loudspeaker: Channel 17, Loudspeaker: Channel 2, Loudspeaker: Channel 22, Rear right childproof lock, Rear right crossing traffic warning, Rear wiper, Refrigerant circuit: Service mode activation, Blower motor: Maximum power, Central flap control motor Center, Coolant temperature gauge, Encoding of retrofitted components, Front left loudspeaker 1, Front right bass loudspeaker, Front right mid-range loudspeaker, Fuel level indicator, Left center vent control motor, Left footwell flaps, Maximum heat output, MMI display temp. setting actuat., Oil level warning lamp, Oil temperature indicator, Oil-pressure indicator lamp, Rear left temp. flap control motor: Actuation, Rear left treble loudspeaker, Reset all counters, Speed indicator, System remote control, Visual display adjustment, Window lifter, Video signal, Alternator test 10.6 V, Autom. transm. adaptation values adapt., Flame sensor of<BR>supplementary/auxiliary heater, Ambient lighting, Close differential lock, Footwell lighting, Rear right ABS inlet valve actuation, Right headlight range control Down, Tank flap, Auxiliary/supplementary heating: Test, Commissioning electric parking brake, Electronic stability program: Configuration of value-added functions, Exterior lighting, Flexible service interval configuration, Battery (high-voltage): Clear fault memory after crash, HV battery charge/discharge current, Lighting test, Loudspeaker: Channel 14, Loudspeaker: Channel 6, Loudspeaker: Channel 7,

Loudspeaker: Channel 8, Main beam: Actuation, Rear lid lock release actuation, Right sliding door, Tail light actuation, Activate rem.cont.sign.warng.tone, Audio signal delay adjustment, Compressor run-in blower voltage adaption, Alarm horn, Central locking system warning lamp, Electric automatic transmission oil pump: Test, Front left seat ventilation, Front windscreen washer pump, Infotainment/multimedia control unit: Restart, Left headlight range control Down, Passenger compartment lighting: Dimming, Transmission control: Perform adaptation drive, Turn signal indicator, ESP sensor unit adaptation, Expansion valve 2, Fresh/recirculat.-air flap, Horn: Actuation, Lane change assist. indic.lamp stat., Left sliding door, Loudspeaker: Channel 18, Loudspeaker: Channel 20, Loudspeaker: Channel 3, Rear right belt catch lighting, Refrigerant shut-off valve 4, Turn signal lamps: Actuation, Blower motor: Half power, EJECT button disable adjustment, Electric coolant pump, Front control motor basic settings, Front left side vent contr. motor, Front right loudspeaker 2, Rear air distr. flap contr. motor, Rear right loudspeaker 1, Rear right treble loudspeaker, Tourist mode, Wheel circumference adjustment, Activate showroom mode, Auxiliary coolant pump HT circuit, Auxiliary coolant pump LT circuit, Coolant pump, charge-air cooler, Engine control unit: Cancel access authorisation for protected functions (SDA), Le. LED lgt. distr.: Motorw. lgt., Le. LED lgt. distr.: Racing light, Le.LED lgt.distr.: Stat.corn.lgt., Display test pattern, Heated rear window, Left headlight range control Up, Transmission gear actuator solenoids: Neutral position, Rear left ABS inlet valve actuation, Air conditioner control motors: Automatic addressing, Brake lining wear indicator: Resetting, Expansion valve 3, Headlight washer system actuation, Horn for alarm system, Humidity sensor: Configuring, HV battery charge, HV battery cooling system valve 2, Infotainment control unit: Resetting, Loudspeaker: Channel 11, Loudspeaker: Channel 23, Luggage compartment lighting, Electronic loudspeaker test, Engine control unit: Reset self-ignition counter, Exhaust gas turbocharger bypass valve, Front right treble loudspeaker, Inlet camshaft timing bank 1, Ri. LED lgt. distr.: Inters. lgt., Ambient lighting: Actuation, Battery (high-voltage): Diagnosing state, Electric air conditioner compressor, Front windscreen washer system, HV battery cooling system valve 1, Infotainment control unit: Cancel access authorisation for protected functions (SDA), Lane change assistant indicator lamp, Left ext.mirr. blind spot warng.lamp, Loudspeaker: Channel 13, Loudspeaker: Channel 16, Loudspeaker: Channel 24, Loudspeaker: Channel 9, Parking light actuat. on both sides, Puddle lamp, Rear left crossing traffic warning, Refrigerant shut-off valve 3, Relay: air conditioning, Right air distr. flap control motor, Running gear control unit: Adapt components <Damper solenoid valves>, Air mix flap control motor, Airbag crash signal Rest of World, Belt warning lamp, Distance control LED display, Lin bus 1 control motor adaption, Maximum cooling output, Microphone sensitivity adjustment, Rear left loudspeaker 1, Reserve fuel indicator lamp, Right center vent control motor, Right footwell flaps, Test pattern 1, Test pattern 6, Test pattern 8, Drain fuel tank, Gasoline particulate filter: Write configuration, Generate readiness code, Le.LED lgt.distr.: Dayt. dr.light, Le.lgt.distr.: Full b. indic.lamp, Text output instrument cluster, Battery (high-voltage): Battery state test (State of Health), Battery (high-voltage): Cancel access authorisation for protected functions (SDA), Child protection, left rear, Expansion valve 1, Infotainment/multimedia display: Cancel access authorisation for protected functions (SDA), Lamps for fog lamp actuation, Loudspeaker: Channel 25, Loudspeaker: Channel 4, Refrigerant shut-off valve 5, Side light actuation, Side/daytime driving light LED module: Signature light, Status PTC - additional heater 3, Wiper tray heating, Airbag crash signal US version, Charge air pressure display, Front and rear control motor basic settings, Front left treble loudspeaker, HWS for lane keeping assist, Lin bus 2 control motor adaption, Power supply, Radiator fan: Actuation, Rear air mix flap control motor, Rear air volume CM actuation, Rear left mid-range loudspeaker, Rear vent control motor, Right air mix flap control motor, Telephone basic volume adjustment, Test pattern 7, Vehicle length adjustment, Warning Message, Coolant shut-off valve 2, Coolant shut-off valve 3, Fuel tank breather valve, Reset adaption value, Coolant pump actuation in LT circuit, Loudspeaker: Channel 15, Loudspeaker: Channel 19, Loudspeaker: Channel 21, Loudspeaker: Channel 5, Rotor position sensor test, Air flow flap, Bluetooth connection last device, Brake wear indicator lamp, Central flap control motor Footw., Media

play volume adjustment, Rear central flap control motor 2, Rear left bass loudspeaker, Rear right air vol.fl. CM actuat., Right footwell temp. flap control motor: Actuation, Test pattern 2, Test pattern 3, Test pattern 4, Turn signal indicator gong, Vehicle width adjustment, Warning buzzer, Fuel quantity control valve, Le. LED lgt. distr.: Inters. lgt., Battery (high-voltage): Reading out the current capacity, SOH (State of Health), Brake assistant for cross traffic, Central electronics control unit reset, DC/DC converter: Cancel access authorisation for protected functions (SDA), Loudspeaker: Channel 10, Passenger compartment lighting: Actuation, Radiator blind control: Adapting, Rear entry lights, Rear fog light actuation, Rear window washer system, Rotor position reset, Acoustic test signal, Refrigerant expansion valve 2: Actuation, Ri. LED lgt. distr.: Racing light, Ri. LED lgt. distr.: Urban light, Ri. lgt. distr.: Main beam ind.l., Ri.LED lgt.distr.: Dayt. dr.light, Ri.LED lgt.distr.: Stat.corn.lgt., Active steering control unit: Reset learning values, Air-conditioning system: Adaption after replacing perfume bottle 2, Backup lamp, Convertible top solenoid valve 1, Convertible top solenoid valve 2, Convertible top solenoid valve 3, Radiator blind, Activate/deactivate production mode, Control unit run-on time adjustment, Crash signal, Fresh/recirculated-air flap 50%, Instrument illumination, Parking aid deactivation speed, Rear blower motor, Rear central flap control motor, Rear left air vol.flap CM actuat., Transmission coolant valve, Volume distribut. remote control, A/C operating/display unit: Automatic addressing, Activate anti-theft alarm, Air volume/distribut. display time adjustment, Background illumination, Bleed, Brake-pedal position sensor: Test, Convert. top compart. well motor, Convertible top flap motor, Convertible top solenoid valve 5, Forced change-up adjustment, Front left damper solenoid valve, Front left fog headlight, Front parking aid warning buzzer, Front right turn signal indicator bulb 2, RR turn signal indicator 2 bulb, Hydraulic fluid pump relay, Keyless antennas: Access/start authorization, Left side vent CM, Le. LED lgt. distr.: C. road lgt., Le. LED lgt. distr.: Urban light, Refrigerant expansion valve 3: Actuation, Reset after replacement crankshaft ring gear, Ri. LED lgt. distr.: C.road light, Ri. LED lgt. distr.: Tourist lgt., Tank shut-off valve, Throttle valve adaptation, Volume remote control, Activate all LEDs, Adapting of control motors, Air-conditioning system: Adaption after replacing perfume bottle 1, ASR/ESP control lamp, Automatic start/stop button control lamp, Central locking system locking unit, Rear lid, Refrigerant expansion valve 1: Actuation, Air flap range/tolerance limits, Compressor (Passenger side multi-contour seat), Convert. top compart.mot.fastener, Convertible top locking motor, Convertible top motor, Convertible top solenoid valve 6, Dash panel flap, Extension module, Front left bass loudspeaker, Front left loudspeaker 2, Frs./air rec/air flw.fl.ctrl.mot., Kerb parking distance adjustment, Park distance control: Activate, Rear air mix flap, Rear control motor basic settings, Rear right loudspeaker 2, Rear right mid-range loudspeaker, Rear right temp. flap control motor: Actuation, Reference channel delay adjustment, Reset control unit, Rev counter, Test announcement, Test pattern 5, Voice output basic volume adjustment, Washer fluid warning lamp, Bleed fuel system, Boost pressure actuator: Adapting, Exhaust camshaft timing bank 1, Le.LEDlgt.distr.:All-weather lgt., Radiator fan motor 1, Ri.LEDlgt.distr.:All-weather lgt., Center vent trim, Cup holder ambient light, Disable all LEDs, Driver side multi-contour seat: Functional test, Front left turn signal indicator bulb 2, RL turn signal ind. 2 bulb, Indoor fragrance atomiser: Scent 1, Le. dayt.driv./side light LED power mod., Left daytime driving light bulb 2, Left footwell flap control motor, Left footwell temp. flap control motor: Actuation, Multimedia operating unit: Contour lighting, Pressure accum./compressor test, Pulse-wheel test, Rear axle differential lock: Fill the fuel <Differential gearbox oil>, Rear left air distribution<BR>control motor, Auto-Hold indicator lamp, Fragrance atomiser control motor: Adapting, Front centre console ambient light 1, Front right air spring valve, Front right fog headlight, Headlight washer system, Hydraulic fluid pump relay 2, Indoor fragrance atomiser: Scent 2, Interior rear light, Left B-pillar shut-off flap, Left daytime driving light, Left daytime driving/side light, Left footwell temp. flap control motor, Left head area heating, Lifting magnet: selector lever lock, Passenger side multi-contour seat: Functional test, Rear driver side door ambient light: Contour lighting, Rear footwell lights, Right rear light, Right side vent control motor, Right vent trim, Running gear control unit: Set suspension height, Running gear control unit: Unlocking



the system <Level control>, Seat ventilation, Servomotor for air flow flap,<BR>right rear, Steering column adjustment to front, Valve 3 add. volume air spring, Vent control motor, rear left, Vent control motor, rear right, Windscreen wiper: Position, Door handle control ON, ESP test, Front driver side door ambient light: Contour lighting, Hazard warning system lamp, Head-up display self-test, Left side light: 2, Number plate light, Pressure accumulator valve, Rear right vent control motor, Rear spoiler, Right cornering light: Dimming, Right sd light/dayt. driv. light bulb 2, Right side light: 2, Roll-over bar triggering, Static test, Switch between antennas, Transmission oil cooler bypass valve, Left side-mounted turn signal indicator, Left vent trim, Mileage data adjustment, Multifunction output 2, Reading lights, Rear air recirculat. flap control motor, Rear right backrest heating, Rear-axle differential lock oil pump bleeding, Refrigerant circuit: Service mode activation/deactivation, Refrigerant shut-off valve, Right B-pillar shut-off flap, Right daytime driving light bulb 2, Running gear control unit: Setting the loading/transport mode, Side-marker lamp, left front, Side-marker lamp, right front, Tyre pressure sensor adaptation, Analog signal muting, Bluetooth connection profile adjustment, Central flap positioning motor, Cooling output test, Engine overheating warning lamp, ESP steering wheel angle sensor adaptation, Fresh/recirculated-air flap 100%, Front left mid-range loudspeaker, Front right loudspeaker 1, Front right side vent contr.motor, Glow plug warning lamp, Maximum refrigerating output, Muting: CAN signal, Parking steering assistant cut-in speed adj., Radiator fan, Rear left loudspeaker 2, Rear right bass loudspeaker, Stopwatch test, Vehicle conditioning, Fuel pressure reduction, Gasoline particulate filter regeneration: Static, Gasoline particulate filter: Resetting, Le. LED lgt. distr.: Main beam, Le. LED lgt. distr.: Tourist lgt., Ri. LED lgt. distr.: Main beam, Left cornering light: Dimming, Left side vent control motor, Multifunction output 1, Parking aid button, (Control lamp): Actuation, Parking aid, Loudspeaker, Rear air volume control motor, Rear air volume flap<BR>control motor, Rear left damper solenoid valve, Right B-pillar/footwell<BR>shutoff flap control motor, Right footwell flap control motor, Right footwell temp. flap control motor, Right head area heating, Right side light: 1, Right side vent CM, Right side-mounted turn signal indicator, Running gear control unit: Build up system pressure of the system <Air suspension>, Screen wiper motor: Adapting, Seat heating, Tank flap locking: Actuation, Transmission oil pump motor, Tyre pressure monitoring system self-test, Unlock. the top glove compartment, Wind deflector control motor, Front DS door trim ambient light., Front left air spring valve, Front PS door trim ambient light., HV system crash signal, Interconnect. of all microphones, Left side light/dayt. driv. light bulb 2, Left window defrost flap control motor, Power flow interrupt. when stationary adjustm., Rear left air spring valve, Rear left backrest heating, Rear right air distribution<BR>control motor, Rear right damper solenoid valve, Rear window, Right daytime driving light, Right daytime driving/side light, Roof marker light, Steering column adjustment to rear, Supplementary air heater<BR>control unit, Right air mix flap, Right LED headlamp power module: Resetting, Running gear control unit: Dissipate system pressure of the system <Air suspension>, Running gear control unit: Locking the system <Level control>, Running gear control unit: Pressure reduction/pressure build-up in the system <Air suspension>, Seat heating power stage 2 to 1 reduct. time, Steering column adjustment upwards, Tiptronic steering wheel button adjustment, Windshield wiper heater element, Washer jet heater, Oil pressure regulating valve, Ri.LED lgt.distr.: Motorw. light, Active head restraints, Allocate control motors, Calibrate parking brake, Compressor (Driver side multi-contour seat), Convertible top indicator lamp, Defroster flap control motor, Fragrance blower motor, Front footwell lighting, Front passenger side door ambient light: Contour lighting, HDC info lamp, Interior and function lighting, Activate selector lever lock, Adjustment, Ambient light: Channel 1, Anti-theft alarm siren/horn, CM HUD vertical deflection mirror, Convertible top solenoid valve 4, Deactivate selector lever lock, Fragrance atomiser control motor, Front right damper solenoid valve, Instrument cluster: Contour lighting, Left air mix flap, Left B-pillar/footwell<BR>shutoff flap control motor, Left LED headlamp power module: Resetting, Left side light: 1, Parking aid: Activation, Rain/light sensor: Write configuration, Valve 4 add. volume air spring, Left main beam screen, Left rear light, Pressure accumulator: Bleeding, Rear axle differential lock: Adaptation of the component <Multi-function

sensor>, Rear PS door trim ambient light., Rear-axle diff. lock system self-test, Recirculated-air flap, Ri. dayt.driv./side light LED power mod., Seat heating power stage 3 to 2 reduct. time, Servomotor for air flow flap,<BR>left rear, Single gear indicator adjustment, Soft-top motor 2, Starter generator: Functional test, Steering column adjustment downwards, Tank flap release, Transmission setting adaption, Valve 1 add. volume air spring, Voltage converter: Functional test, Rear DS door trim ambient light., Rear left vent control motor, Rear passenger side door ambient light: Contour lighting, Rear right air spring valve, Refrigerant circuit: Reset refrigerant loss detection counter, Right main beam screen, Right window defrost flap control motor, Selector lever moved transversely, Taillamps, Valve 2 add. volume air spring

### **57 new Actuation type special tests:**

5th Camera Activation Request Control Value 1, Activation Of Parking Spot Search Park Assist Control Value, Automatic Calibration Headlamp Test Mode Control Value, Button Automated Driving Lighting Test Control Value, Defined Segment Control Matrix Headlamp Left, Defined Segment Control Matrix Headlamp Right, Display For Lane Departure Warning Control Value, Display Road Sign In Dash Panel Insert Control Value, Display Road Sign In Dash Panel Insert, Dr Hazard Warn At Danger Coli Wt A Person Tst Ctrl Val, Driver Hazard Warning At Danger Of Collision With A Person Test, ESP-Data (Brake), ESP-Data (Variants), Front Parking Aid Loudspeaker Control Value, FV Safe State Simulation Control Value, Green Indicator Lamp For Lane Departure Warning Control Value, Green Indicator Lamp For Lane Departure Warning, Headlamp Left High Beam Segment Control Test Control Value, Headlamp Left Low Beam Segment Control Test Control Value, Headlamp Right High Beam Segment Control Test Control Value, Headlamp Right Low Beam Segment Control Test Control Value, Individual Segment Control Matrix Headlamp, Lane Departure Warning Indicator, Lens Heater Control Value, Main Beam Activation Control Value, Main Beam Activation, Main Beam, Manoeuvre Light Request Control Value 1, Output Tests (03), Park Assist Activation Of Partner Control Units Control Value, Parking Aid Activation Control Value, Parking Aid Button Indicator Light Test Control Value 1, Parking Aid Button Indicator Light Test, Rear Parking Aid Loudspeaker Control Value, Reference Segment Control Matrix Headlamp Control Value, Reference Segment Control Matrix Headlamp, Reserved VW Common Control State, Steering Wheel Vibration Control Value, Steering Wheel Vibration, Swinging Logo Test Control Value 1, Swinging Logo Test, System Adjustment Control Value, System Adjustment, System Identification, Theft Protection Control Value, Theft Protection, Topview Camera Cleaning Request Control Value 1, Topview Camera Display Test Control State, TV Camera Activation Request Control Value 1, Video Signal Test Input Output Control Parameter, Warning Lamp For Adaptive Light Test Control Value, Warning Lamp, Windscreen Heater For Camera Control Value, Windscreen Heater For Camera, Windscreen Heater For Lane Departure Warning, Yellow Indicator Lamp For Lane Departure Warning Control Value, Yellow Indicator Lamp For Lane Departure Warning

