

Version 4.17

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Overview

Version 4.17 update includes model year **2022** vehicle coverage and additional **ADAS** calibrations. This update also introduces enhanced coverage for Porsche vehicles. Improved Generic OBDII protocol search performance; Improved Quick Scan DTC description lookup to find DTC matches more frequently. This update also corrects a compatibility issue GM Techline Connect software (J2534 compliant products).

8679 new special test & 6,500 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)

- **Audi** – 2022 A4 Quattro, A5 Quattro, A5 Sportback, A6 Allroad, A6 Quattro, A7 Sportback, e-tron Quattro, Q3, Q7, R8, RS Q8, RS5, RS5 Sportback, RS6 Avant, RS7 Sportback, S5, S5 Sportback, S7 Sportback, SQ5 Sportback, SQ7, SQ8, TT Quattro
- **BMW** – 2022 330e, 430i Gran Coupe, 530e, 530e xDrive, 540i, 540ixDrive, 740i, 740i xDrive, 745e xDrive, 840i, 840i Gran Coupe, 840i xDrive, 840i xDrive Grand Coupe, Alpina B7, Alpina XB7, M340i, M340i xDrive, M4, M440i Gran Coupe, M440i xDrive, M440i xDrive Grand Coupe, M5, M550i xDrive, M760i xDrive, M850i xDrive, M850i xDrive Gran Coupe, X2, X3, X4, X5, X6, X7
- **Hyundai** – 2022 Elantra, Santa Cruz, Tucson
- **Infiniti** – 2022 Q50, QX50, QX55, QX80
- **Jaguar** – 2022 I-Pace
- **Land Rover** – 2022 Defender 110, Defender 90, Discovery, Discovery Sport, Range Rover, Range Rover Evoque, Range Rover Sport
- **Lexus** – 2022 ES250, ES300h, ES350, GX460, RX350, RX350L, RX450h, RX450hL
- **Nissan** – 2022 Leaf, Rogue
- **Porsche** – 2012-2022 911, 2017-2022 Boxster, 2017-2022 Cayman, 2020-2022 Spyder, 2011-2022 Cayenne, 2015-2021 Macan, 2010-2022 Panamera, 2020-2022 Taycan
- **Toyota** – 2022 Avalon
- **Volvo** – 2022 S60, V60 Cross Country, XC 40, XC 60, XC 90
- **Special Test Additions** – multiple brands
- **ADAS Coverage:**
 - **Subaru** – Coverage added for 2022MY Ascent, Crosstrek and Impreza
 - **Audi** – Coverage added for 2022MY SQ8
 - **BMW** – Coverage added for 2022MY 430i
 - **Volkswagen** – Coverage added for 2021MY ID.4

- **GM** – coverage added for 2021MY GMC Savana 6.6L

New Coverage – USA Domestic

Chrysler/Jeep/Ram Coverage

3 new Adjustment type special tests:

Front Caliper Substitution, Rear Brake Disc Substitution (Continental), VIN Lock

7 new Actuation type special tests:

I/O Control All-Limp Home Mode active, I/O Control All-Red Lamp, I/O Control All-Yellow Lamp, Select Level Switches-Damping Mode Button, In Motion Menu, TPMS Failure Lamp, Under Inflation Lamp

Ford Coverage

1 new Adjustment type special test:

Clutch System Test

General Motors Coverage

5 new Adjustment type special tests:

Heated Oxygen Sensor Heater Resistance Learned Values Reset, Neutral Position Learning, Particulate Filter Pressure Sensor Reset, Reset Particulate Filter, Throttle Body Idle Air Flow Compensation Reset

5 new Actuation type special tests:

Left Front Shock Absorber Actuator, Left Rear Shock Absorber Actuator, Right Front Shock Absorber Actuator, Right Rear Shock Absorber Actuator, Seat Belt Retractor Motor

New Coverage – USA Asian

Honda/Acura Coverage

10 new Actuation type special tests:

PTG-PTL Trouble Lamp, ACC Alarm Test, ACC Brake Actuator, ACC Indicator Light, ACC Information Display, ACC Relay, CMBS Brake, Flash Right Side Indicator, Turn On Right Side Indicator, SMART KEY OUT

Hyundai Coverage

- Added coverage for 57 new system applications

17 new Adjustment type special tests:

Auto Detected Configuration Reset (ESP/ESC Only), Auto Detected Configuration Reset, ESC Variant Coding, HCU Air Bleeding Mode, Longitudinal G Sensor Calibration(HAC/DBC Only), SAS CALIBRATION(CAN-ESP Only), Steering Angle Sensor (SAS) Calibration, Resetting Auto Trans Adaptive Values, Reset Adaptive Values, Resetting Adaptive Values, Resetting E-CVVT Values, Write VIN, Vehicle Name Writing, Wheel Sensor ID Writing, TPMS Reception Rate Measuring Mode, TPMS Test, WCT Reprogram

320 new Actuation type special tests:

Actuator Control - Apply, Actuator Control - Release, Electric Shuttle Valve-Left Front, Electric Shuttle Valve-Right Front, Inlet Valve-Left Front, Inlet Valve-Left Rear, Inlet Valve-Right Front, Inlet Valve-Right Rear, Motor, Outlet Valve-Left Front, Outlet Valve-Left Rear, Outlet Valve-Right Front, Outlet Valve-Right Rear, TCS Valve-Left Front, TCS Valve-Right Front, Compressor Off, Compressor On, Driver Air Mix Door-0%, Driver Air Mix Door-100%, Driver Air Mix Door-50%, Driver Mode Door-Floor, Driver Mode Door-Vent, Intake Door - Fresh, Intake Door - Recirc, Passenger Air Mix Door-0%, Passenger Air Mix Door-100%, Passenger Air Mix Door-50%, Assist side mirror folder, Assist Side Mirror High, Assist side mirror left, Assist Side Mirror Low, Assist side mirror right, Assist side mirror unfolder, ASSIST SIDE O/S MIRROR TURN SIGNAL, Assist Window Auto Down, Assist Window Auto Up, Passenger Rear Left Right Door Lock, Passenger Rear Left Right Door Unlock, Control Solenoid Valve (VFS) A, Pressure Control Solenoid (LP), Shift Control Solenoid Valve A(UD/B), Shift Control Solenoid Valve B(2-6/B), Shift Control Solenoid Valve C(35R/C), Shift Control Solenoid Valve D(OD/C), Shift Control Solenoid Valve E(SS-A), Torque Converter Clutch Solenoid Valve, Indicator ALL OFF, Indicator ALL ON, Drive Side Puddle Lamp, Driver Courtesy Lamp, Driver Door Lock, Driver Door Unlock, Driver Heater Control, Driver Rear Door Courtesy Light, Illumination, Interior Mood Lamp Output, Move DRIVE OUTSIDE MIRROR to the highest position, Move DRIVE OUTSIDE MIRROR to the lowest position, Move DRIVE OUTSIDE MIRROR to the most left position, Move DRIVE OUTSIDE MIRROR to the most right position, Operate DRIVE SIDE FOLD, Operate DRIVE SIDE UNFOLD, Operate DRIVE SIDE WINDOW AUTO DOWN, Operate DRIVE SIDE WINDOW AUTO UP, Operate DRIVE SIDE WINDOW DOWN, Operate DRIVE SIDE WINDOW UP, Pocket Light Output(Optional), Rear Assist Side Door Curtain Down(Only Windows Close Status), Rear Assist Side Door Curtain Up(Only Windows Close Status), Rear Driver Side Door Curtain Down(Only Windows Close Status), Rear Driver Side Door Curtain Up(Only Windows Close Status), Rear Driver Side Window Auto Up, Rear Driver Window Auto Down, Rear Driver Window Down, Rear Driver Window Up, Rear Mood Lamp(Both Left and Right), Rear Pocket Lamp(Both Left and Right), Window Lock to Driver Door Module, A/C Compressor Relay, A-C Compressor Relay, Canister Purge Valve, Canister Shut Off Valve (OBD-2 Only), Canister Shut Off Valve Clocked(OBD-2 Only), Canister Shut Off Valve Toggling(OBD-2 Only), Canister Shut Off Valve(OBD-2 Only), Cooling Fan PWM, Cruise Control Main Lamp(Optional), Cruise Control SET Lamp(Optional), CVVT Exhaust, Electronic Waste Gate Valve (Turbo Only), Engine Check Lamp [MIL], Engine Check Lamp(MIL), ETC Motor, EVAP Leak Test, Exhaust Gas Recirculation, Fan Motor Control-High Speed, Fan Motor Control-Low Speed, Fan PWM, FPCM pressure control, Fuel Open Loop, Fuel Pressure Indicator Lamp, Fuel Pressure Regulator (GDI Only), Fuel Pressure Regulator (GDI Only), Fuel Pump Control(1st stage), Fuel Pump Relay(1st stage), Fuel Pump Relay, High Pressure Fuel Pump Control, Ignition Coil 1, Ignition Coil 2, Ignition Coil 3, Ignition Coil 4, Ignition Coil Enable-Disable-#1, Ignition Coil Enable-Disable-#2, Ignition Coil Enable-Disable-#3, Ignition Coil Enable-Disable-#4, Injector Disable-Cylinder 1, Injector Disable-Cylinder 2, Injector Disable-Cylinder 3, Injector Disable-Cylinder 4, ISG Lamp, Main Relay, Norminal Idle Speed Offset, O2 Heater Front (B1-S1), O2 Heater Front, O2 Heater Rear (B1-S2), O2 Heater Rear, Oil Change Warning Lamp(Optional), Oil Control Valve - Exhaust Bank 1(Optional), Oil Control Valve - Exhaust Bank 1, Oil Control Valve - Intake Bank 1, Oil Control Valve - Intake Bank1, Over speed indicator(Optional), Radiator Cooling Fan PWM, Read VIN, TCI Bypass Valve (Turbo Only), Turbo waste gate(WGT) valve, Variable Intake Manifold 1 (Option), Variable Intake Solenoid(Optional), VCM Motor(Optional), Waste Gate Valve (Turbo Only), (LED) DRL Lamp LH, (LED) DRL Lamp RH, 3LH SBR Left Indicator, 3RH SBR Center Indicator, All Door Lock Signal Output(to PTGM), Assist Mirror Position Down, Assist Mirror Position Left, Assist Mirror Position Right, Assist Mirror Position Up, Assist Seat Belt Indicator (Option), Assist Seat Belt Indicator, ATM Solenoid, Auto Light Power, AV Tail, BCM Internal Buzzer Output, Burglar Horn Relay, Central Door Lock Indicator, Central Door Lock Relay, Central Door Unlock Relay, D_DRL Relay, Dead Lock Relay, Defogger / Deicer Relay, Driver Door Unlock Relay, Driver Seat Belt Indicator, DRL Relay(Canada), Europe Cornering Lamp Left Relay Output, Europe Cornering Lamp Right Relay Output, External Buzzer Output, Flasher Sound Relay(Optional), Folding Mirror Relay, Foot Lamp Output(Optional), Foot Lamp Output, Front Fog Lamp

Indicator, Front Fog Lamp Relay, Front Washer Motor Output, Glove Box Lamp Output, Hazard Relay, Head Lamp High Indicator, Head Lamp High Output, Head Lamp Low Indicator, Head Lamp Low Output, Head Lamp Low Signal, Head Lamp Washer Relay, Heated Handle Indicator(Optional), Heated Handle Indicator, Heated Handle Output(Optional), Heated Handle Output, Heated Washer Nozzle Output, Horn Relay(NA), Horn Relay, Interior Lamp Autocut Relay Output(Optional), Interior Mood Lamp Output, IOD Relay, Key Hole Illumination (Manual Key Type), Key Hole Illumination, Key Interlock Solenoid(Manual Key Type), Lamp Load Power Relay, Luggage Lamp Relay, Manual HLLD Signal Output, Mirror Folding Operation (Option), Mirror Unfolding Operation (Option), Multimedia Load Power Relay, Navi Wakeup Signal Output, Optional Rear Seat Warmer - Left, Optional Rear Seat Warmer - Right, Over Speed Warning Indicator, Parking Brake Indicator, PAS Indicator (RPAS Off Indicator), PAS Indicator/RPAS OFF Indicator, PAS/RPAS Buzzer Output, Power Window Relay, Puddle Lamp Output, Rear Curtain DN Output, Rear Curtain Up Output, Rear Fog Lamp Indicator, Rear Fog Lamp Relay (Option), Rear Fog Lamp Relay, Rear Power Window LH Up Relay, Rear Room Lamp Output, Rear Seat Belt Center Indicator (Option), Rear Seat Belt Center Indicator, Rear Seat Belt Left Indicator (Option), Rear Seat Belt Left Indicator, Rear Seat Belt Right Indicator (Option), Rear Seat Belt Right Indicator, Rear Washer Motor, Rear Wiper Relay, RKE Tailgate Signal Output(to PTGM), Room Lamp Output, RPAS Switch Indicator (Option), Safety Power Window Enable, Security LED Output, Start Inhibit Relay, Static Bending LH Output, Static Bending RH Output, Stop Lamp, SunRoof Power Relay control, Tail Interior Lamp, Tail Lamp Indicator, Tail Lamp Output, Tailgate/Trunk Release Relay, Turn LH Output

Kia Coverage

1 new Adjustment type special test:

TPMS Test

Mitsubishi Coverage

1 new Actuation type special tests:

LED LH INDICATOR

Nissan/Infiniti Coverage

- Added coverage for 438 new system applications

178 new Adjustment type special tests:

Lock Operation, Slow Mode, ABS Motor, Booster Solenoid, Brake Operation, Brake Release, FR LH ABS Solenoid (ACT), FR LH ABS SOLENOID(ACT), FR LH SOL, FR RH ABS Solenoid (ACT), FR RH ABS SOLENOID(ACT), FR RH SOL, Front Left Solenoid, Front Right Solenoid, Rear Left Solenoid, Rear Right Solenoid, RR LH ABS Solenoid (ACT), RR LH ABS SOLENOID(ACT), RR LH SOL, RR RH ABS Solenoid (ACT), RR RH ABS SOLENOID(ACT), RR RH SOL, Solenoid Actuator Driving FR 2 Wheels, Solenoid Actuator Driving FR-LH, Solenoid Actuator Driving FR-RH, Solenoid Actuator Driving RR 2 Wheels, Solenoid Actuator Driving RR-LH, Solenoid Actuator Driving RR-RH, Solenoid Driving FR-LH, Solenoid Driving FR-RH, Solenoid Driving RR, Solenoid Driving RR-LH, Solenoid Driving RR-RH, Stop Lamp On Relay, Stop Light Relay, Accelerator Pedal Actuator Test 1, Accelerator Pedal Actuator Test 2, ANC Test Tone, Voltage Pattern Output, Levelizer Test, Low Beam Swivel Test Left, Low Beam Swivel Test Right, LOW BEAM TEST LEFT, LOW BEAM TEST RIGHT, ETS S-V, MEMORY SW INDCTR, MIRROR MOTOR LH, MIRROR MOTOR RH, A/C Indicator, A-C INDICATOR, ACC Indicator, Accy/RAP Relay, Activate the Starter Cut Relay, Air Conditioner Test, Answer Back With I-Key Unlock, Anti Key Lock In Function, AS Seat Lamp Test, Assist Seat Lamp Test, Auto ACC 1, AUTO ACC 2, Automatic Back Door, Back Door/Trunk Lock Relay, Back Door/Trunk Unlock, Back Dr Open Warn, Battery Saver, Boot/Trunk Open, Brake SW, Brake

Switch, Cargo Lamp Output, Confirm Dongle ID, Cornering Lamp Test, Daytime Running Light, Door Handle Lamp Test, Door Lock Ind, Door Lock Indicator, Door Lock, Door Warning Test, Driver Seat

634 new Actuation type special tests:

Decel G Sensor Calibration, Finish Brake Pad Replacement, Initialization Position Adjustment, Longitudinal G Sensor Calibration, Start Brake Pad Replacement, Steering Angle Sensor Adjustment, Steering Angle Sensor Calibration, System Mode Change, Valve Calibration, Valve Check, Valve Flushing, Reset Oil Deterioration Information, Rotary Position Sensor Learn, Anti Theft Alarm Trigger Setting, Anti-Lock Out Set, Auto Door Lock, Auto Light Logic Setting, AUTOMATIC DOOR UNLOCK SELECT, Automatic Lock Setting, Automatic Lock/Unlock Set, BCM Diagnosis When Engine Does Not Start, BCM Diagnosis When the Door Lock Is Malfunctioning, Custom A/Light Setting, Diagnosis for Remote Engine Starter, Door Lock / Unlock, Engine Start by I-Key, Horn Chirp Setting, Horn With Keyless Lock, ID Read, Ignition Battery Saver Set, Illumination Delay Setting, Interior Light/Door Lock Interaction Setting, Lock/Unlock By I-Key, Multi Answer Back Setting, Program Key Fobs, R Lamp Timer Logic Setting, REMO CONT ID CONFIR, Remo Cont ID Erase, REMO CONT ID REGIST, Reset to Default Settings, Retained Power Setting, Room Lamp Off Timer Setting, Room Lamp On Timer Setting, Room Lamp Timer Setting, Set R-DEF Timer, Tire Pressure Sensor Registration, Trunk Open Set, Wiper Speed Setting, CLUTCH SENSOR RESET, Finish Brake Pad Replacement, G Sensor Calibration, Initialization Position Adjustment, Pressure Sensor Initialization, Start Brake Pad Replacement, System Mode Change, A/F Initial Learning, A/F Sensor Response Diagnosis Status B1, A/F Sensor Response Diagnosis Status B2, Active Control Engine Mounting A, Active Control Engine Mounting B, Adaptives After Replacing Particulate Filter, AFT Maintenance, After Camshaft Position Sensor Replacement, After Clutch Pedal Switch Replacement, After Crankshaft Position Sensor Replacement, After Electric Throttle Control Actuator Replacement, After Fuel Injector Replacement, After Fuel Rail Pressure Sensor Replacement, After High Pressure Fuel Pump Replacement, After Turbocharger Replacement, After Turbocharger Solenoid Valve Replacement, Air Fuel Ratio Correction Value, Air Fuel Ratio Sensor, AP Position Learn Clear, Battery Discharge Current Integration Clear, CC/SL Program, Check Fuel Lines, Clear Air-Fuel Ratio Learning, Clear ETC Learning, Clear E-VTC Op Learned Angle (Exh), Clear E-VTC Op Learned Deviation Angle (Exh), Clear FFD, Clear LPG Air-fuel Ratio Learning, Clear Normal TAS Learning, Clsd Thl Pos Learn, Clutch Pedal End Stroke, CML Battery Discharge Current Integration Clear, CO Adjustment, Cumulative Sub-Battery Discharge Current Clear, DPF Regeneration, Dual battery relay voltage drop count data clear, EGR Control Valve Closed Position Learning, Electric Intake Valve Timing Control Learning, Engine Adaptive, Engine basis parts value 1 and 2 clear, Ethanol Concentration, EVAP System Close, Fuel Pressure Release, Fuel Supply Prevention, G Sensor Calibration, GPF Service Regeneration Reset Routine Execution, High Pressure Fuel Circuit Fault Finding, High Pressure Fuel Pump Total Starts Counter Clear, Idle Air Vol Learn, Idle Air Volume Learn, Ignition Timing (ADV), Ignition Timing Adjustment, Injection Pump Adaptive, Injection Timing, Interval of Oil Change (OCS) Oxidation, M/T Neutral Pos Learn, Misfire Count (Past), Misfire count (real-time), Number of Starting 1, Number of Starting 2, Number of Starting 3, Number of Starting 4, Number of Starting Cycles, Oil Change Interval (OCS) Dilution, Programmed Values, Programming Reinitialization, Regeneration of Gasoline Particulate Filter, Reset Fuel And Timing Learn Tables, Reset Fuel Consumption Short Term Log, RTCV Actuator Calibrate, Save/Write Data for CPU Replace, SC Magnetic Clutch Engage Count Clear, Self-Learning Cont, Solenoid VTC Operation Start Duty Learning, Start OBD test: Catalytic converter, Start OBD test: O2 sensors, Starter Operation Count Clear, Starter Operation Counter Clear, Stop/Start engine restart cause data recorder, Stop/Start engine stall cause data recorder, Stop/Start prohibit cause data recorder, Sub-Starter Generator Oper Count Clear, Supercharger Magnet Clutch Engagement Count Clear, Target Idle RPM Adjustment, Target IGN TIM ADJ, Target Ignition Timing Hold, V/T Control Learn, Valve Timing Adjustment, Valve Timing Offset Data Clear, Valve Timing Offset Data Writing, Vcr Base Position Learning, VIN Registration, VVEL Position Sensor Adj Prepare, Waste

Gate Actuator Position Learning Value Clear, Waste Gate Regulation, Write Fuel Learn Value, Write High Pressure Fuel Pump Total Starts Count, Write Starter Operation Count, ALC Setting, Cause of Auto Cancel 2, Cause of Auto Cancel 4, Cause of Auto Cancel 6, FEB Operation Mileage, VIN Registration, Zero Point Reset Function, ID Registration, Air Bleeding, Auto Park Inhibition, Auxiliary Gearbox Clutch Point Learning, Clutch Point Learning, Computer Programming, Conform CVTF Deterioration, ECO Mode Reset Function, Electric O.P Air Bleeding, Electric Oil Pump Air Bleeding, Engine Brake Adjustment, Erase Calibration Data, Erase Learning Value, Erase Memory Data, Erase Statistic Memory, FWD Clutch Point Learning, G Sensor Calibration, Launch Control Counter Reset, Programming Selections/Engaging Zones, Reset Adaptation Values for Shift Operation, Save Computer Data, Shift Drum Reference Position, Teach-in Of Selection Range Sensor, Upshifts, VIN Registration, Write Saved Data

Toyota/Lexus Coverage

- Added coverage for 445 new system applications

1239 new Actuation type special tests:

4WD Auto Mode Indicator, 4WD Control Prevention Mode, 4WD Warning Light, Activate the 4WD Lock Light, Activate the Slip Indicator Light, ABS Front Left Hold Solenoid, ABS Front Left Release Solenoid, ABS Front Right Hold Solenoid, ABS Front Right Release Solenoid, ABS Rear Left Hold Solenoid, ABS Rear Right Hold Solenoid, ABS Rear Right Release Solenoid, ABS Solenoid (SFLH), ABS Solenoid (SFLR), ABS Solenoid (SFRH), ABS Solenoid (SFRR), ABS Solenoid (SRLH), ABS Solenoid (SRLR), ABS Solenoid (SRRH), ABS Solenoid (SRRR), ABS Solenoid, ABS Warning Light, Accumulator Zero Down, Activate the Slip Indicator Light, ARS Warning Light, A-TRC(TRAC) Indicator Light, Auto LSD Indicator Light, Auto Mode, BH Operated Light, BH Standby Indicator, BH Standby Light, Brake Warning Light, Buzzer, Check Mode, Crawl Control Light, Cruise Control-PCS-LKA Buzzer, DAB Indicator Light, Downhill Assist Control Light, DSS Signal Buzzer, EBS Relay, ECB Control Invalid, ECB Main Relay 2, ECB Main Relay, ECB Main Relay2, ECB Motor Relay, ECB Motor Relay2, ECB Solenoid (SC1), ECB Solenoid (SC2), ECB Solenoid (SCC), ECB Solenoid (SGH), ECB Solenoid (SLA) Valve Close, ECB Solenoid (SLA), ECB Solenoid (SLAFL) Valve Close, ECB Solenoid (SLAFL) Valve Open, ECB Solenoid (SLAFL), ECB Solenoid (SLAFL2), ECB Solenoid (SLAFR) Valve Close, ECB Solenoid (SLAFR) Valve Open, ECB Solenoid (SLAFR), ECB Solenoid (SLAFR2), ECB Solenoid (SLARL) Valve Close, ECB Solenoid (SLARL) Valve Open, ECB Solenoid (SLARL), ECB Solenoid (SLARL2), ECB Solenoid (SLARR) Valve Close, ECB Solenoid (SLARR) Valve Open, ECB Solenoid (SLARR), ECB Solenoid (SLARR2), ECB Solenoid (SLR) Valve Close, ECB Solenoid (SLR), ECB Solenoid (SLRFL) Valve Close, ECB Solenoid (SLRFL) Valve Open, ECB Solenoid (SLRFL), ECB Solenoid (SLRFL2), ECB Solenoid (SLRFR) Valve Close, ECB Solenoid (SLRFR) Valve Open, ECB Solenoid (SLRFR), ECB Solenoid (SLRFR2), ECB Solenoid (SLRRL) Valve Close, ECB Solenoid (SLRRL) Valve Open, ECB Solenoid (SLRRL), ECB Solenoid (SLRRL2), ECB Solenoid (SLRRR) Valve Close, ECB Solenoid (SLRRR) Valve Open, ECB Solenoid (SLRRR), ECB Solenoid (SLRRR2), ECB Solenoid (SMC), ECB Solenoid (SMC/SRC/SCC), ECB Solenoid (SMC1), ECB Solenoid (SMC2), ECB Solenoid (SMC-SRC-SCC), ECB Solenoid (SRC), ECB Solenoid (SSA), ECB Solenoid (SSC), ECB Warning Indicator, ECB Warning Light, EPB Warning Light, H/B Motor Relay, H-B Motor Relay, Indicat. Lamp VSC OFF, Inspection Mode, Motor Relay Control, Motor Relay, PKB Full Release Control, PKB Light, PKB Lock Control, PKB Release Control, Power Supply Air Bleeding Pattern2, PPS Solenoid, Pre Crash Brake OFF Light, Pre-Charge Pump, Pump Check Pattern, RL Wheel Air Bleeding Pattern, RR Wheel Air Bleeding Pattern, Signal Check, Slip Indicator Light, Solenoid Relay, Stop Light Relay, Stop light System Indicator Light, Stroke Simulator Cut Valve Pattern, Tire Pressure Indicator, Tire Pressure Light, TPMS Warning Light, Trac Motor Relay, TRAC Solenoid (SPFL), TRAC Solenoid (SPFR), TRAC Solenoid (SRCF), TRAC Solenoid (SRCR), TRAC Solenoid (SRMF), TRAC Solenoid (SRMR), TRC OFF Indicator Light, TRC(TRAC) Motor Relay, TRC(TRAC) OFF Indicator Light, VSC

OFF Indicator Light, VSC Warning Light, VSC/TRAC Off Indicator Light, VSC/TRAC Solenoid, VSC/TRC Solenoid (SMF), VSC/TRC Solenoid (SMR), VSC/TRC Solenoid (SPFL), VSC/TRC Solenoid (SPFR), VSC/TRC Solenoid (SRCF), VSC/TRC Solenoid (SRCR), VSC/TRC Solenoid (SRMF), VSC/TRC Solenoid (SRMR), VSC-TRAC Off Indicator Light, VSC-TRAC Solenoid (SMF), VSC-TRAC Solenoid (SMR), VSC-TRAC Solenoid (SPFL), VSC-TRAC Solenoid (SPFR), VSC-TRAC Solenoid (SRCF), VSC-TRAC Solenoid (SRCR), VSC-TRAC Solenoid (SRMF), VSC-TRAC Solenoid (SRMR), VSC-TRC(TRAC) Solenoid, Advice Display, AFS Alarm Display, AFS OFF Indicator, Auto High Beam Control Indicator, Auto High Beam Warning Indicator, Automatic High Beam Indicator, Automatic High Beam Operation, Clearance Light, Cornering Light, Cornering Light-Front Side Illuminate Light, Daytime Running Light, Drive Swivel Motor LH LEFT, Drive Swivel Motor LH, Drive Swivel Motor RH RIGHT, Drive Swivel Motor RH, Drive The Leveling Motor, Extra High Beam, Front Fog Light, Headlight Cleaner, Headlight High Beam, Headlight Indicator, Headlight Leveling Indicator, Headlight Low Beam, High Beam Indicator, High Beam LH, High Beam RH, Indicate AFS OFF Lamp, Left High Beam, Left Turn Signal Light, Right High Beam, Right Turn Signal Light, Variable Shade Beam LH, Variable Shade Beam LH/RH, Variable Shade Beam LH-RH, Variable Shade Beam RH, Clearance Light, Cornering Light-Front Side Illuminate Light, Daytime Running Light, Headlight Cleaner, Headlight High Beam, Headlight Low Beam, A/M Servo Pulse(FR D), A/M Servo Pulse(FR P), A/O Servo Pulse(FR D), A/O Servo Pulse(FR P), A/O Servo Pulse(Rr D), A/O Servo Pulse(Rr P), Activate the Air Inlet Damper Target Pulse, Activate the Electric Heater1 Relay, Activate the Electric Heater2 Relay, Activate the Electric Heater3 Relay, Activate the Mirror Heater Relay, Activate the Rear AC Magnet Valve, Activate The Water Pump, Air Inlet Damper (Rear), Air Inlet, Air Mix Damper (Driver Side), Air Mix Damper (Passenger Side), Air Mix Damper (Rear), Air Mix Servo Targ Pulse(D), Air Mix Servo Targ Pulse(P), Air Mix Servomotor Pulse D Side, Air Outlet (Front), Air Outlet (Rear), Air Outlet Damper (Driver Side), Air Outlet Damper (Passenger Side), Air Outlet Damper (Rear), Air Outlet DEF, Air Outlet Rear FOOT (Driver Side), Air Outlet Rear FOOT (Passenger Side), Air Outlet Servometer Pulse (D), Air Purifier Mode, Air Purifier(Ion), Assist Fan, Batt Cool Down Servo Targ Pls, Battery Magnetic Valve, Blower Motor, Compressor Target Speed, Cool A/M Servo Pulse(D), Cool A/M Servo Pulse(P), Cool Air Bypass Damper (Driver Side), Cool Air Bypass Damper (Passenger Side), Cool Air Bypass Pls(P), Cool Air Bypass Pulse, Cooling Electric Expansion Valve, DEF A/O Servo Pulse(D), Defogger Relay Rear, Dehumidification Magnetic Valve, Deicer Relay Front, Diffuse Pulse(R), Electric Heater1, Electric Heater2, Electric Heater3, Electric Water Heater, Electrical Fan, Emission Pulse(R), Evaporator Magnetic Valve, Face A/O Servo Pulse(D), Face A/O Servo Pulse(P), Foot A/O Servo Pulse(D), Foot A/O Servo Pulse(P), Front Left Seat Blower, Front Left Seat Heater, Front Right Seat Blower, Front Right Seat Heater, Heat Exchange Shut Valve, Heater Valve, Heating Electric Expansion Valve, Heating Three-way Valve, High Pressure Magnetic Valve, High Voltage Electric Heater, Hot A/M Servo Pulse(D), Hot A/M Servo Pulse(P), HWD Relay, Ion Generator, Low Pressure Magnetic Valve, Lower Air Mix (Driver Side), Lower Air Mix (Passenger Side), M/H Bypass Cool Servo Pls, M/H Bypass Hot Servo Pls, Magnetic Clutch Relay, Magnetic Valve Operation, Middle Pressure Magnetic Valve, Mirror Heater Relay, Oxygen Drive, Rear A/M Servo Pulse(P), Rear A-C Mag Valve, Rear Air Mix Servo Target Pulse, Rear Blower Motor, Rear Left Seat Blower, Rear Left Seat Heater, Rear Right Seat Blower, Rear Right Seat Heater, Refrigerant Gas Volume Check, Seat Heater Active Level, Steering Heater, Upper Air Mix (Driver Side), Upper Air Mix (Passenger Side), Viscous Heater, Water Pump, Accumulator Valve, Compressor Motor Relay, Damper Step FL (Electric Current), Damper Step FL, Damper Step FR (Electric Current), Damper Step FR, Damper Step RL (Electric Current), Damper Step RL, Damper Step RR (Electric Current), Damper Step RR, Exhaust Solenoid1, Exhaust Solenoid2, FL Gas Spring Switch Valve, FL Wheel Up/Down, Four-Wheel Damping Force Full Hard, Four-Wheel Damping Force Full Soft, FR Gas Spring Switch Valve, FR Wheel Up/Down, Front Gate Valve, Front Left Height Solenoid, Front Left Sole

New Coverage – USA European

Alfa Romeo Coverage

2 new Adjustment type special tests:

Front Caliper Substitution, Rear Brake Disc Substitution (Continental)

2 new Actuation type special tests:

TPMS Failure Lamp, Under Inflation Lamp

Audi Coverage

- Added coverage for 3894 new system applications

3085 new special tests:

Lens Heater Control Value, Output Tests (03), System Adjustment Control Value, System Adjustment, System Identification, Theft Protection Control Value, Theft Protection, System Adjustment Control Value, Act Tst Precrash ICM Disp Text Ctrl ICM Disp Text, Act Tst Precrash Pretens Ctrl Tensioning Char, Act Tst Precrash Veh Conditioning Ctrl Veh Conditioning, Active Headrest Control Onoff, Actuator Test Crash Intensity 1, Actuator Test Crash Intensity 2, Actuator Test Crash Intensity 3, Actuator Test Crashsignal Control Crash Direction, Actuator Test Crashsignal Control Crash Intensity, Actuator Test Crashsignal Control Onoff, Actuator Test Highvoltage Disable Control Highvoltage Disable, Actuator Test Highvoltage Disable Control Onoff, Actuator Test Highvoltage Disable, Actuator Test Precrash ICM Display Text Control Onoff, Actuator Test Precrash ICM Display Text, Actuator Test Precrash Pretensioner Control Onoff, Actuator Test Precrash Pretensioner Control Side, Actuator Test Precrash Vehicle Conditioning Control Onoff, Actuator Test Precrash Vehicle Conditioning, Actuator Test USM Control Crash Severity, Actuator Test USM Control Onoff, Actuator Test USM Crash Type Front Driver, Actuator Test USM Crash Type Front Passenger, Actuator Test USM Crash Type Pedestrian Protection, Actuator Test USM Crash Type Rear Driver, Actuator Test USM Crash Type Rear Passenger, Actuator Test USM Crash Type Rollover, Actuator Test USM Crash Type Side Driver, Actuator Test USM Crash Type Side Passenger, Airbag Crash Signal Rest Of World, Airbag Indicator Light Off, Crash Signal, Ds Belt Buckle Illumination, Error Lamp, Error Text Output, ESP-Data (Brake), ESP-Data (Variants), Front-Passenger Airbag Indicator Lamp (off), Left Side 2nd Row Actuator Test Precrash Pretensioner, Left Side Actuator Test Precrash Pretensioner, Output Tests (03), Passenger Airbag Off Display, Passenger-Airbag-Off Display Control Onoff, PODS Serial Number, Ps Belt Buckle Illumination, PWM Signal Belt, Rear Centre Belt Catch Lighting, Rear Left Belt Catch Lighting, Rear Right Belt Catch Lighting, Right Side 2nd Row Actuator Test Precrash Pretensioner, Right Side Actuator Test Precrash Pretensioner, Rolloverbars Control Onoff, Rolloverbars, Theft Protection Control Option, Theft Protection, Vehicle Conditioning, Warning Message, Antenna Pow Adjustment Loop Test VW Common Ctrl State Sig Path, Antenna Power Adjustment Loop Test VW Common Control State 1, Antenna Power Adjustment Loop Test VW Common Control State 2, Antn Pow Adjustment Loop Test VW Common Ctrl State Trans Power, Transmission Power Test VW Common Control State 1, Transmission Power Test VW Common Control State 2, Transmission Power Test VW Common Control State 3, Transmission Power Test VW Common Control State Signal Path, Transmission Power Test VW Common Control State, Transmission Power Test VW Common Ctrl State Transmission Power, Assembly Mountings Actuators, Buzz Test Control Value, Buzz Test, Engine Mount 1 Control Value, Engine Mount 1, Engine Mount 2 Control Value, Engine Mount 2, Send Current Map, Send Reference Map, Acoustics, Boost Pressure, Oil Temperature, Segment Test, Stopwatch, Auxiliary Heater Fuel Supply, Circulation Pump, Combustion Air Blower, Combustion Blower Test Control Value On Off, Combustion-Air Blower, Coolant Circulation Pump Control Value On Off, Coolant Pump Switching Valve, Coolant Shut-Off Valve Control Value On

Off, Dosing Pump Test Control Value On Off, Dosing/Metering Pump, Flame Monitor/glow Element Unit, Fresh Air Blower Activation, Fuel Heating Element Actuation Test Control Value On Off, Fuel Metering Pump, Fuel Pre-Heating Heater, Fuel Pump Relay Control Test Control Value On Off, Glow-Plug with Flame Monitoring, Heater Engine Coolant Blocking Valve, Heater Glow Plug Test Control Value On Off, Output Tests (03), Recirculating Pump, System function test, Clutch 2 For All Wheel Drive, Clutch Valve 2 For Four-Wheel Drive, Clutch Valve For Four-Wheel Drive, Fill Pressure Lines, Front Axle Torque Request, Haldex Trans Act Ctrl Val Haldex Trans Act, Lck Elec Act Ctrl Val Haldex Trans Act, Output Tests (03), Pressure Test, Pump For All Wheel Drive Electronic Valve 1, Pump For All Wheel Drive Electronic Valve 2, Pump For All Wheel Drive Electronic Voltage Value, System Identification, Torque Demand Left Level 1, Torque Demand Left Level 2, Torque Demand Left Level 3, Torque Demand Right Level 1, Torque Demand Right Level 2, Torque Demand Right Level 3, Actuate Charging Connection 1, Actuate Charging Connection 2, Battery Charging Button Indicator Light Control Value, Battery Charging Button Indicator Light, Charge Flap Lock A Control Value Flap Locking, Charge Indicator Lamp 1, Charge Indicator Lamp 2, Charging Con A Ind Lights Tst VW Com Ctrl St, Charging Con A Lck Tst Ctrl Val Con Lck, Charging Con B Ind Lights Tst VW Com Ctrl St, Charging Con B Lck Tst Ctrl Val Con Lck, Charging Connector A Indicator Lights Test Control Value LED, Charging Connector A Locking Test, Charging Connector B Indicator Lights Test Control Value LED, Charging Connector B Locking Test, Control Lamp Button Load Profile, Hv Batt. Charge Warning Lamp, Hv Batt.immediate Charging Button, Hv Charging Cable Indicator Lamp, Reset Hv Charge Cable Mating Cyc.,Charge Flap Lock A Control Value Connector Locking, Charge Flap Lock B Control Value Connector Locking, Charging Con A Ind Lights Tst Ctrl Val Con Lck, Charging Con A Lck Tst Ctrl Val Con Lck, Charging Con B Ind Lights Tst Ctrl Val Con Lck, Charging Con B Lck Tst Ctrl Val Con Lck, Charging Connector A Ind Lights Test Ctrl Val Connector Locking, Charging Connector A Indicator Lights Test Control Value LED, Charging Connector A Locking Test Ctrl Value Connector Locking, Charging Connector B Ind Lights Test Ctrl Val Connector Locking, Charging Connector B Indicator Lights Test Control Value LED, Charging Connector B Locking Test Ctrl Value Connector Locking, HV Battery Charge/discharge Current, LKL1 Actuator Diagnosis Control Value LED, LKL2 Actuator Diagnosis Control Value LED, Push Button Leds Control Value, RGB1 LKL1 Actuator Diagnosis Control Value LED, RGB1 LKL2 Actuator Diagnosis Control Value LED, RGB2 LKL1 Actuator Diagnosis Control Value LED, RGB2 LKL2 Actuator Diagnosis Control Value LED, Airflow Vlv Ctrl Hyb Batterie Airflow Vlv Tar Pos, Coolant Pump Control HV Batterie Pump Duty, Cooling Valve 1 Hi Voltage Batterie Cooling Valve1 Tar Position, Cooling Valve 1 Hybrid Batterie Cooling Valve1 Target Position, Cooling Valve 2 Hybrid Batterie Cooling Valve2 Target Position, Cooling Valve1 Hybrid Batterie Cooling Valve1 Target Position, Cooling Valve2 Hybrid Batterie Cooling Valve2 Target Position, Cooling Vlv 1 Hi V Bat Cooling Valve1 Tar Pos, Hv Batt.: Sv 1 Coolg.sys.opening, Hv Batt.: Sv

BMW/Mini Coverage

- Added coverage for 1251 new system applications

361 new special tests:

Composition of High-volt Battery Unit: Read_Out Serial Number, Control unit re-start, ECU Reset, Heating and AC Functions: Drain/Fill the Refrigerant Circuit, High-voltage Battery:Read-Out History of Last Chrg Procedure, HV Battery Charge, HV Battery Control Unit Initialization, Reset Control Unit, Transportability High-voltage Battery Unit: Electric Assessment, Activate Parking Brake After Pad Replacement, Activate/Stop/Status DSC Bleeding(HL), Activate/Stop/Status DSC Bleeding(HR), Activate/Stop/Status DSC Bleeding(Prepare), Activate/Stop/Status DSC Bleeding(VL), Activate/Stop/Status DSC Bleeding(VR), Bleed, Bleeding Routine Left HA DX, Bleeding Routine Left LI DX, Bleeding Routine Right RE DX, Bleeding Routine Right VA DX, Brake Bleed Procedure, Brake Fluid Flush Reminder (CBS) Reset, Brake Pedal Pos. Sensor Zero Pos. Compensat., Clears the internal error

memory of the sensor cluster, Commissioning Electric Parking Brake, Connection Brake Lines, Deactivate Parking Brake For Pad Replacement, Driving Dynamics Sensor Adjustment, DSC Brake Bleed Procedure, DSC Sensor Adjustment, ECU Reset, EPS: Steering Start-Up, Front Brake Pad Wear Indicator Reset, Initialise puncture indicator, Lateral Acceleration Sensor, Longitudinal Acceleration Sensor Adjustment, Null Balancing, Steering Wheel Angle Sensor, Perform Control-module Reset, Pressure Sensors, RDC Initialization, Rear Brake Pad Wear Indicator Reset, Reset puncture indicator, Sensor Unit Zero Position Compensation, Steering Angle Sensor Adjustment, Steering Angle Sensor Calibration, Steering Angle Sensor Centering, TPMS/RDC - Reset Production Mode, Valve current adapting, Variant Encoding, Vent Brakes, ECU Reset, Bleed, Brake Fluid Flush Reminder (CBS) Reset, Commissioning Electric Parking Brake, Deactivate Parking Brake For Pad Replacement, Driving Dynamics Sensor Adjustment, Front Brake Pad Wear Indicator Reset, Rear Brake Pad Wear Indicator Reset, A/C compressor run-in protection, AC Compressor Cutoff, Adaptation (10) / Long Adaptation (0A), Adapting Of Control Motors, Air Distribution Flaps, Bottom, Air Distribution Flaps, Middle, Air Distribution Flaps, Top, Air Mix Flap Initialization, Alarm Horn Adjustment, Assistance Driving Light Activation/Deactivation Delay, Audible Locking Confirmation, Audible Unlocking Confirmation, Auto. setting air damper control motors, Auto-Lock, Automatic Air Conditioning LEDs, Auto-Unlock, Basic Setting, Basic Settings (04), Blower Activation 80%, Calibrate Stepper Motors, Calibration Run of the Flap Motors, Cancel System Tests, Centre Console Control Panel LEDs, Comfort Operation (via Remote Control), Comfort Turn Signals (Cycles), Coming Home Activation Time, Controller Coding (07), Decrease Blower Output, Defrost Flaps 50%, Defrosting, Factory Mode, Footwell Lighting Dimming (With Open Door), Footwell Lighting Dimming (with Terminal 58d), Fresh/Circulating Air Flap 50%, Headlight Washer Activation Delay, HVAC: Installation Position of Flap Motors, Inclination Sensor Sensitivity, Increase Blower Output, Interior Monitoring Sensitivity, Learned Values Reset, Leaving Home Time, LIN-bus Reset, Log-in(11) Adaptation(10), Log-in(11), Controller Coding(07), Log-in(11) or Coding II(11), Microfilter Reset, Move to fitting position, Newly Address The Air Distribution Flap Motors, Perform Control-module Reset, Rear Stratification Flap 50%, Rear Window Outside Mirror Heater Activation Time, Remote Control Adaptation, Replace refrigerant, Reset Auxiliary Heater Start Inhibit, Reset Cooling Media Compressor Gen. 2.0, Right Air Mix Flap 50%, Selective (Single) Door Locking, Start Auto-address for Flap Motors, Unlock Independent/Aux Heater, Ventilation Flaps 50%, Visual Comfort Operating/Closing Confirmation, Visual Locking Confirmation, Charge air suspension struts, Drain air spring struts, Airbag Configuration, Perform Control-module Reset, Read airbag igniter circuits status, Resistances of airbag igniter circuits, Seat Occupancy Detection, Front Passenger, Microphone Sensitivity Adjustment, Activate/Deactivate Transportation Mode, Button Illumination, Slide/Tilt Sunroof Initialization, A/C compressor run-in protection, Adaptation (10) / Long Adaptation (0A), Air Mix Flap Initialization, Alarm Horn Adjustment, Assistance Driving Light Activation/Deactivation Delay, Auto. setting air damper control motors, Auto-Lock, Auto-Unlock, Calibrate Stepper Motors, Calibration Run of the Flap Motors, Comfort Operation (via Remote Control), Comfort Turn Signals (Cycles), Coming Home Activation Time, Factory Mode, Headlight Washer Activation Delay, HVAC: Installation Position of Flap Motors, Inclination Sensor Sensitivity, Interior Monitoring Sensitivity, Learned Values Reset, Leaving Home Time, LIN-bus Reset, Log-in(11) Adaptation(10), Log-in(11) Log-in(11) Controller Coding(07), Log-in(11) or Coding II(11), Move to fitting position, Newly Address The Air Distribution Flap Motors, Perform Control-module Reset, Rear Window Outside Mirror Heater Activation Time, Remote Control Adaptation, Replace refrigerant, Reset Auxiliary Heater Start Inhibit, Reset Cooling Media Compressor Gen. 2.0, Selective (Single) Door Locking, Start Auto-address for Flap Motors, Initialization of Soft Top, Valvetronic Limit Position Learning Mode, Classic Memory Reset, Coding Data Reset Control, ECU Reset, Perform Control-module Reset, Reset Steering Angle Calibration, Reset transfer case oil wear data, Transfer Box - Calibration, Transfer Box - Replace Control Unit, Transfer Box (VTG): Replace Control Unit, Transfer Box Oil Change

Fiat Coverage

2 new Adjustment type special tests:

Front Caliper Substitution, Rear Brake Disc Substitution (Continental)

2 new Actuation type special tests:

TPMS Failure Lamp, Under Inflation Lamp

Jaguar Coverage

- Added coverage for 22 new system applications

5 new special tests:

Auto Hi Beam On-Of Stat -Electrochromatic Mir O-P Dark, Auto High Beam On-Off Status -Automatic High Beam Requested, Automatic High Beam On-Off Status -Reverse Inhibit Active, Self Test - Camera System, Self Test - CEM System

Land Rover Coverage

- Added coverage for 165 new system applications

5 new special tests:

Auto Hi Beam On-Of Stat -Electrochromatic Mir O-P Dark, Auto High Beam On-Off Status -Automatic High Beam Requested, Automatic High Beam On-Off Status -Reverse Inhibit Active, Self Test - Camera System, Self Test - CEM System

Mercedes Benz Coverage

191 new special tests:

Activate The Function 'Tire Pressure Loss Warning', Brake Pad Replacement Step 1 (Release), Brake Pad Replacement Step 2 (Close), Calibration Of Acceleration Sensor, Calibration Of Component 'Electric Parking Brake', Calibration Of Component ESP Control Valves, Electronic Stability Program Calibration At Standstill, Reset Steering Wheel Angle Sensor Adaptation Values, Reset Tire Control Indicator (TCI), Sensor Unit Calibration, Sensor Unit Zero Position Compensation, Solenoid Valve Calibration, Special Function VIN, Teach-in The Component 'Electric Parking Brake', Level Calibration, Move To Calibrated Vehicle Level, Reset Compressor Actuation History, Reset Of Compressor Operating Time, Suspension Level Calibration, Adjustment Lag Time Audio Output, ECU Reset, Radio Presets AM, Radio Presets FM, Calibration Of Steering Angle Sensor, Deactivate Transportation Mode, High Voltage Component Lock Engagement, High-Voltage Component Lock Disengagement, Adapting Of Control Motors, Automatic Setting Air Damper Control Motors, Basic Setting, Breaking-In Of Refrigerant Compressor, Customer Request, Front Control Motor Basic Settings, Normalization of actuator motors, Refrigerant Compressor Run-In, Reset Adaption To Factory Setting, Special Settings, Teach-In Of Actuator Motors After Actuator Motor Replacement, Teach-In Of Actuator Motors, Transfer Of Manufacturer Default Settings, Workshop Code, Adapt/Matching After ECU Replacement, Adaptation/ Matching After Control Unit Replacement, Reset Adaption Value, Reinitialize the Active Service System (ASSYST), Reset Of Function 'Ring memory', Reset Vacuum Pump Actuation Counter, Control Module Reset, Normalization Of Power Window, Control unit re-start, Deactivation of Production Mode, Control unit re-start, Start Control Unit Reset, Normalization, Correction Programming of Ignition, Enabling Of Engine Start After Crash Event, Enrich In Case Of Poor Fuel Quality, Enriching The Fuel-Air Mixture By 10%, Enriching The Fuel-Air Mixture By 23%, Fuel Mixture Adjustment, Increase Idle Speed With Range Engaged, Increase Idling Speed, Initialization After Crash, Injector Quantity Adjustment, Mixture

Adaptation, Octane number adjustment 89 RON, Octane number adjustment 91 RON, Octane number adjustment 93 RON, Octane number adjustment 95 RON, Reduce Idling Speed With Range Engaged, Reduce Idling Speed, Regeneration of the Diesel Particulate Filter (DPF), Reset Adaptation Parameters, Reset Adaption To Factory Setting, Reset After Replacing Engine, Reset Fuel Adaptation Parameters, Reset Idle Speed in Gear, Reset Idling Speed To Factory Setting, Reset Injector Lift Compensation, Reset Of Mixture Adaptation Values, Resetting Adaptation Values, Resetting Reading Of Frequency Counter For Ethanol, Rotor Sensor Adaptation (Crank Learn), Status Of Teach In Processes, Teach In Of Positions For Camshafts, Teach In Of Throttle Valve Stop, Teach In Sensor Rotor Adaptation, Teach-in Process After Replacing The Combustion Engine, Teaching In the Ethanol Proportion In The Fuel, Throttle Valve Adaption, Adapt/Matching After ECU Replacement, Entry Of Manufacture Date Of Headlamp, Headlamp Range Adjustment, Operating Hrs Ctr Reset-Parking,Standing,Daytime Running Lights, Reset Operating Hours Counters Of LF Headlamp Unit, Reset Operating Hours of Front Fan Motor 1, Reset Operating Hours of Front Headlight, Reset Operating Hours Of Left Front Lamp Unit Fan Motor 2, Resetting Of Assignment Of Control Unit To Vehicle Side, Resetting The Operating Hours Counter Of Left Xenon Headlamp, Resetting The Operating Hours Counter Of Right Xenon Headlamp, Store Vehicle Reference Level, Zero Position Adjustment, Entry Of Manufacture Date Of Headlamp, Headlamp Range Adjustment, Operating Hrs Ctr Reset-Parking,Standing,Daytime Running Lights, Reset Operated Hour Counter Headlamp, Reset Operating Hours of Front Fan Motor 1, Reset Operating Hours of Front Headlight, Resetting the Component (Right front lamp unit fan motor 2), Axle Sensor Zero Point Programming, Control Unit Run-On Time Adjustment, Assyst Plus Reinitialization, Clear Confirmed Overall Maintenance, Confirm Maintenance - 229.1 Oil, Confirm Maintenance - 229.3 Oil, Confirm Maintenance - 229.31 Oil, Confirm Maintenance - 229.5 Oil, Confirm Maintenance - 229.51 Oil, Confirm Maintenance - Standard Oil, Confirmation Of General Maintenance, Current Menu Settings, Date And Time, Oil Grade Factor, Reinitialize the Active Service System (ASSYST), Reset Adaption To Factory Setting, Reset General Maintenance, Reset Mistaken General Maintenance, Reset Of Function 'Ring memory', Resetting Of Service-Interval Display, Service Interval Display Reset, Service Interval Reset Faulty, Service Requirement, Total Maintenance Reset, Transfer Of Manufacturer Default Settings, Pairing Audio/Comand MBRACE (Internet Connection), Transmit VIN To Control Module 'Mbrace', Coding Reset, Initial Startup, Reset Learned Values, Reset of coding, Reset Steering Angle Offset Values, Variant Coding Reset, Anti-Pinch Protection Teach-in Process, Sun Roof Initialization, Battery Replacement, Confirmation Of Battery Change, SDR Clear History Get Position Start, Activate Showroom Mode, Reset Frequency Counter, Head Restraint Adjustment, Normalization, Adblue Circuit System Bleeding, Adblue Circuit System Drainage, Adblue Pump Initialization, Adblue Tank Level Sensor Calibration, Reset Adaptation Parameters, Teach-in After Replacement Of 'AdBlue® Metering Valve', Calibrate Control Unit ISM for Direct Select Module, Calibrate ECU (Intelligent Servo Module / DIRECT SELECT), Control Unit Calibration, Perform Calibration, Teach-in Of Drive Authorization System, DVC/DEC Microphone Calibration, Fan Initiate/Stop

Volkswagen Coverage

2602 new special tests:

Adaptation (10) / Long Adaptation (0A), Basic Settings (04), Log-in(11) Adaptation(10), Log-in(11) Basic Settings(04), Log-in(11) or Coding II(11), Security Access(16) Basic Settings (04), Activate/Deactivate Roller Dynamometer Mode, Adaption After Adjustment, Basic Settings (04), Braking to Standstill, Collision Prevention 1 (Special Methods 1), Collision Prevention 2 (Front-Assist), Hydraulic Brake Assistant (Special Methods 2), Locking for Coding/Flashing, Log-in(11) Adaptation(10), Log-in(11) Basic Settings(04), Log-in(11) or Coding II(11), 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, Activate/Deactivate Roller

Dynamometer Mode, Transfer Configuration, Airbag Control Unit: Reset Counter (roll-Over Protection Triggs, Airbag Control Unit: Roll-Over Protection Test, Basic Setting Seat Occupied Recognition, Basic Settings (04), Battery Separating Deactivation, Battery Separating Relay Deactivation, Calibration Data PreCrash 2, Calibration Data PreCrash, 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, Learned Values (Vehicle Data), Log-in(11) Adaptation(10), Log-in(11) Basic Settings(04), Log-in(11) or Coding II(11), Mounting Position Calibration SC, Null Balance Seat Occupied Recognition, Occupant Detect System, Passenger Seat Occupation Recognition Sensor Deactivation, PODS Rezero, PODS Serial Number Adjustment, Pretensioner Left Serial Number, Pretensioner Right Serial Number, Programming Data Pretensioner 2nd Row Left, Programming Data Pretensioner 2nd Row Right, Programming Data Pretensioner Left, Programming Data Pretensioner Right, 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, Reset Counter For Rollover-Bar-Deployment, Reset Rollover Trigger Counter, Roll-Over Bars Deactivation, Roll-Over Bars Trigger Counter Reset, Rollover Protection Test, Seat Occupant Recognition Basic Setting, Seat Occupied Recognition Control Module Basic Setting, Seat Occupied Recognition Reset, Seat Occupied Recognition, Security Access(16) Basic Settings (04), Transfer Configuration, Delay Timer Before ECU Goes Off, Delayed Accessory Power After Clamp 15 Off Com, Delayed Accessory Power After Clamp 15 Off Edge, Delayed Accessory Power After Clamp 15 Off, Direct Test Mode Input, Knockout Test Mode, Protection CAN Wakeup, Protection RH850 WakeUp, Reset of Adaption Values, Reset of Adjustment/Calibration Values, Transfer Configuration, Access EEPROM Value, Activation Of Bypassvalve Starting In Control Pause Threshold F, Additional Heater Glow Plug: Reset Adaptation Values, Additional Heating Lower Threshold Coolant Fluid Temp, Additional Heating Lower Threshold Outdoor Temp, Additional Heating Temp Threshold Big To Med, Additional Heating Temp Threshold Big To Power, Additional Heating Temp Threshold Low To Control Pause, Additional Heating Temp Threshold Low To Med, Additional Heating Temp Threshold Med To Big, Additional Heating Temp Threshold Med To Low, Additional Heating Temp Threshold Power To Big, Additional Heating Temp Threshold Start To Control Pause Or Add, Additional Heating Temp Threshold Start To Control Pause, Additional Heating Threshold For Start Delay Time, Additional Heating Upper Threshold Outdoor Temp, Additional Heating Upper Threshold Coolant Fluid Temp, Adjustment Fuel Feed Pump On Low Fuel Level, Auxiliary Heating, Auxiliary Heating/Venting Aid, Auxiliary Heating/Venting Shut-OFF, Basic Settings (04), CO2 Setting, Combustion Air Blower CO2 Setup, Combustion Air Blower Setting (Low Speed), Confirmation Sound, Continuous Control Of Bypass Valve After Deactivation Of Heater, Deactivation Heating Setting, Delay Time For Undervoltage Detection Active Heater, Delay Time Threshold For Reset Of Running Information To Engine, Dosage Pump CO2 Volume Adjustment, EEPROM Address, Electronic Fuel Pump Threshold Amount Of Fuel In Chamber, Electronic Fuel Pump Threshold For Activation Time Active Heate, Electronic Fuel Pump Threshold For Activation Time Before Heati, Electronic Fuel Pump Threshold For Maximum Remaining Time Witho, Enable Control Unit, Factory Reset, Front Buzzer Frequency, Front Buzzer Volume, Fuel Level Threshold For Deactivation Electroic Fuel Pump, Fuel Line Filling Setting, Glowplug replacement, Heater Or Metering Pump Deactivation, Heater Start (Customer Service), Heater Unblock Setting, Heater Unlock, Heater Unlocking Setting, Heating For Production Setting, Heating for Service Setting, Insufficient Voltage Threshold, Insufficient Voltage Time Threshold, Learn Vehicle Identification Number (VIN), Line Filling Duration, Line Filling Enabling, Log-in(11) Adaptation(10), Log-in(11) Basic Settings(04), Log-in(11) or Coding II(11), Low Voltage Shut-Off, Matching The ECU To Fuel Type (Gasoline Or Diesel), Metering Pump Activation, Program Remote Control, Radio Sender Transfer Setting, Rear Buzzer Frequency, Rear

Buzzer Volume, Recirculation Pump During Auxiliary Heating, Recirculation Pump Lock Adaptation, Recirculation Pump Replacement, Remote Control Barcode, Remote Control Learning, Remote Control Unit Learning, Remote Control: Receiver, Reset Adaption Value, Reset Coolant Pump Adaption Values, Reset Factory Defaults, Reset of Adjustment/Calibration Values, Reset Of First Filling Status, Security Access(16) Basic Settings (04), Service Light Reset, Shut Off Conditions, Supplementary Heater: Adapting, Supplementary Heater: Reset Adaptation Values, Supplementary Heater: Reset Starter Interlock, Supplementary Heater: Test, Temp Threshold Activate Climate Control, Temp Threshold Auxiliary Heater: Full Load After Partial Load, Temp Threshold Auxiliary Heater: Partial Load After Full Load, Temp Threshold Auxiliary Heater: Start After Control Pause, Temp Threshold Big To Med, Temp Threshold Big To Power, Temp Threshold Low To Control Pause, Temp Threshold Low To Med, Temp Threshold Med To Big, Temp Threshold Med To Low, Temp Threshold Power To Big, Temp Threshold Start Out Of Control Pause, Temp Threshold Start To Control Pause Or Heating Mode, Temperature Difference For Bypass Valve Opening, Temperature Threshold Auxiliary Heater: Control Pause, Temperature Threshold: Ambient Temperature, Temperature Threshold: Coolant Temperature, Time Bypass Valve Activated After Caster Finished, Time For Opening Bypass In Control Pause, Transfer Configuration, Undervoltage Heater Turn-Off, Variant Encoding, Write Configuration, Adapt Cardan Sync, Basic Setting - Calibrate All Wheel Drive Clutch Pump

Volvo Coverage

- Added coverage for 99 new system applications

