

## Version 4.15

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### Overview

Version 4.15 update includes model year 2022 vehicle coverage, more 2021 vehicles, and additional ADAS calibrations.

Mercedes support for Secure Gateway.

732 new special tests + 10,354 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)***

- **Acura** – 2022 coverage for MDX and ILX
- **Alfa Romeo** – 2022 coverage for 2022MY Giulia and Stelvio
- **Buick** – 2022 coverage for Encore and Encore GX
- **Cadillac** – 2022 coverage for CT4, XT5, and XT6
- **Chevrolet** – 2022 coverage for Bolt EUV, Bolt EV, Camaro, Colorado, Corvette, Equinox, Silverado 1500, Silverado 2500, Silverado 3500, Spark, Trailblazer, and Trax
- **Ford** – Additional coverage for some 2021 vehicles and systems
- **GMC** – 2022 coverage for Acadia, Canyon, Sierra 1500, Sierra 2500, Sierra 3500, and Terrain
- **Honda** 2022 coverage for HRV, Insight, and Odyssey
- **Hyundai** – 2022 coverage for Kona, Palisade, Santa Fe, Sonata, and Venue
- **Kia** – 2022 coverage for Sportage and Telluride
- **Mercedes** – 2021 coverage (all models)
- **Mitsubishi** – 2022 coverage for Outlander
- **RAM** – 2022 coverage for 1500
- **Subaru** – 2022 coverage for Impreza, Legacy, and Outback
- **Special Test Additions** – multiple brands
- **ADAS Coverage:**
  - 2022 Acura: ILX & MDX All Features
  - 2022 Honda: Insight, Odyssey & HRV All Features
  - 2022 Mitsubishi: Outlander All Features
  - 2022 Subaru: Legacy & Outback All Features

- 2021 Ford: Bronco All Features
- 2021 Alfa Romeo: Giulia All Features
- 2021 Mercedes: All Models All Features
- 2021 RAM: 1500 All Features

## ***New Coverage – USA Domestic***

### **Chrysler/Jeep/Ram Coverage**

- Added coverage for 1218 new system applications

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

EPB Assembly Check, Closed Coupled Replacement

#### **155 new Actuation type special test:**

ASR-ESP Safety indication, A-C Button, A-C Compressor Clutch Relay Control State, A-C INDICATOR, A-C Request, A-C Select, Acc-Run-Start Relay, Air Vent - Floor Motor Distribution (Left side), Air Vent - Floor Motor Distribution (Right side), Alarm-Doors Status-Deterrence LED, All Doors-Central Locks, All Stop Lights W-Combined Rear Lighting, ASR-ESP Safety indication, ASR-ESP Safety Lamp, BACKUP LIGHT L-R, Brake Sys Fail Ind (EBD Included) - Park Brake Indication, Brk Sys fail Ind (EBD Included) - Man Park Brk Ind, Brk Sys fail Ind (EBD Included) - Park Brk Ind, CNG Failure – Reserve, Convenience-Reading Lamp, Courtesy-Convenient-Ambient Function, DeadLock Relay-Independent Driver Door Unlock, Door-Boot-Bonnet Open Indication, Door-Hood-Trunk Open Indication, Doors status - deterrence LED, Driver Doors Status - Deterrence LED, DRL - Front Park Lights, ECO ON-OFF Indicator, ECO-LPG-SS-E-Costing LED Command, Elec Stabil Ctrl (ESC) Sys Intrvntn - fail Ind HILL HOLDER Sys, Engagement Electrovalve PPV1 Command (3rd-2nd-R), Engagement electrovalve PPV1 command (6th-7th-R-5th), Engagement Electrovalve PPV2 Command (1st-4th-5th-6th), Engagement electrovalve PPV2 command (2nd-3rd-4th-1st) , ESC (Elec Stability Ctrl) Sys Intervention - Fail Indication, ESC (Electronic Stability Control) fault-intervention Lamp, ESC (Electronic Stability Control) Sys Intrvntn - fail Ind, ESC ON-OFF Indicator, ESC Sys Intrvntn - fail Ind HILL HOLDER Sys fail Ind, First Row Driver Seatbelt Buckle Sensor-Switch, First Row Passengers Seatbelt Buckle Sensor-Switch, Flasher - Rear backup Left Light, Flasher - Rear backup Right Light, Flasher Rear - Lateral Left, Flasher Rear - Lateral Right, Foot Well-Halo Lamps, Frequency Step Selection Tuner AM-FM, Front Wiper (High-Low), Front Wiper (On-Off), Front-Rear Washer, FUEL FILTER HEATER - PARK (L-R), Glow plug indication - Cold Start inhibition, Glow Plugs Lamp (diesel)-Cold Start Delay Inhibition, Glow Plugs Lamp (Diesel)-Cold Start Delay Inhibition, Hill-Holder Safety Lamp-Message, H-W Switched 12 V Supply, Ignition RUN-ACC 1, Ignition RUN-ACC 2, Ignition RUN-START, Indicator 1 -A-C Indicator, Indicator 12 -Front-Rear Park Assist Indicator, Indicator PWM 1 (A-C Indicator), Indicator PWM 12 -Front-Rear Park Assist Indicator, I-P Illumination, KIN Start-Stop LED State, Lane Dep Warn (LDW) on Nt Armed- on Armed- on Warn, Lane Departure Warning - on not armed- on armed- on warning, Lane Departure Warning (LDW) On Not Armed- On Armed- On Warning, Lane Departure Warning ON-OFF Indicator, LDW on not armed- on armed- on warning, Left (Front-Central-Rear) Turn Lights, Left (Front-Rear) Parking Lights, Left Rear Tail-Park Lamp, Left Rear Turn-Stop Lamp, Left Reartail-Park Lamp, Left Signal Mirrors-Side Repeaters (BUX), Left Stop-Turn Trailer, Left Trailer Tow Turn-Stop Lamp, Left Turn Light Front-Latera, Lock - Unlock Steering Wheel, LPG Failure – Reserve, Main-Left Temp. Door Actuator Position, Main-Left Temperature Actuator Position, Mirror LED -Day-Night, Mirror LED -ON-OFF, MIRROR PUDDLE LIGHT L-R, Oxygen Sensor 1-1 Heater Duty-Cycle, Oxygen Sensor 1-2 Heater Duty-Cycle, Oxygen Sensor 2-1 Heater Duty-Cycle, Oxygen Sensor 2-2 Heater Duty-Cycle, PARK - SIGNATURE LEFT, PARK - SIGNATURE RIGHT, Park-Tail Lamps, Passenger

Doors Status - Deterrence LED, PPPA ON-OFF Indicator, PTS ON-OFF Indicator, Radiator-Condenser Cooling Fan Relay 1 Control State, Radiator-Condenser Cooling Fan Relay 2 Control State, Rear Fog Light or Second Backup Light - Side Marker Lights, Rear Parking Light - Side Markers, Redundant Ignition RUN-START Feed Output, Redundant Ignition RUN-START Feed Output Control, Right (Front-Central-Rear) Turn Lights, Right (Front-Rear) Parking Lights, Right Back-Up-Turn Lamp –Pillar, Right Rear Tail-Park Lamp, Right Rear Turn-Stop (NAFTA), Right Rear Turn-Stop Lamp, Right Reartail-Park Lamp, Right Signal Mirrors-Side Repeaters (BUX), Right Stop-Turn Trailer, Right Trailer Tow Turn-Stop Lamp, RT-LT Sidemarkers-RT-LT Applique Parklamps, Run-Acc Relay, Run-Start Relay, Secondary-Thatchum Lock Motor, Secondary-Thatchum Un-Lock Motor, Seek Status Tuner AM-FM, Sport ON-OFF Indicator, Stop - Position - Turn Left Light 1, Stop - Position - Turn Left Light 2, Stop – Position - Turn Right Light 1, Stop - Position - Turn Right Light 2, Stop - Position Left Light 1, Stop - Position Left Light 2, Stop - Position Right Light 1, Stop - Position Right Light 2, STOP - STOP TURN LEFT, STOP - STOP TURN RIGHT, Stop-Start Activation, Stop-Start Button, Stop-Start Indicator, Stop-Start ON-OFF Indicator, Stop-Start Relay, TAIL - SIDE MARKER LEFT, TAIL - SIDE MARKER RIGHT, Tail-Stop Lamp, T-Case Motor-Motor Lock, Telltale -ESC-BAS, Tire Pressure Module (TPMS) not available-not programmed, TOW-HAUL, Tow-Haul Indicator, Trunk-Flipper Glass Release Motor, Trunk-Liftgate Ajar, Turn - Rear backup Left Light, Turn - Rear backup Right Light, Turn Light Front - Lateral Left, Turn Light Front - Lateral Right, Turn Light Rear - Lateral Left, Turn Light Rear - Lateral Right, Type Of Fuel Supply (Gasoline-Alternative Fuel), Tyre Pressure Module (TPMS) Not Available-Not Programmed, Unlock 1-Driver Lock, Unlock 2-Passenger Locks, Volume On-Off Button (Power On-Off)

## ***Ford/Lincoln Coverage***

- Added coverage for 36 new system applications

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

Fuel Injector Correction Factors, Reset Air Filter Minder, Reset Fuel Run Dry Prevention Information

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

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, Front Left-Front Right Traction Control Isolation Valve 1, Front Left-Front Right Traction Control Supply 1, Left Front-Right Rear Traction Control Supply 1, Left Front-Right Rear Traction Control Valve 1, Rear Left-Rear Right Traction Control Isolation Valve 2, Rear Left-Rear Right Traction Control Supply 2, Right Front-Left Rear Traction Control Supply 2, Right Front-Left Rear Traction Control Valve 2, Next-Last (>|) Button, BECM Cell Voltage, Hybrid-EV Wake Up – Commanded, Left Stop-Turn Inner Lamp, Left Stop-Turn Middle Lamp, Left Stop-Turn Outer Lamp, Right Stop-Turn Inner Lamp, Right Stop-Turn Middle Lamp, Right Stop-Turn Outer Lamp, Brake-Shift Interlock, Driver Door Interior Lock-Unlock Latching Switch Status, Left Front Position-Sidemarkers, Liftgate-Decklid Release Output Status, Right Front Position-Sidemarkers, Run-Accessory Output Control, Run-Start Output Control, Trailer Tow Park-Tail Lamp Output, EGR VOL CONT-V, FUEL-T TEMP SEN, PURG VOL CONT-V, TC-SC BYPASS VALVE, VENT CONTROL-V, VIAS S-V-1, VIAS S-V-2, A-C Recirculating Servo Position Status, Air Conditioning Clutch Engaged, Tow-Haul Indicator Lamp, Over Drive (O-D) off, Air Conditioning Clutch Engaged, Hybrid-EV Traction Battery Thermal System Operational Levels, DC-DC Enable Status, Speed Control Cancel-Resume Switch, Speed Control On-Off Cancel Switch, Speed Control On-Off Switch, Trailer Tow Park-Tail Lamp Output

## **General Motors Coverage**

- Added coverage for 4603 new system applications

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

Cylinder 6 Deactivation Solenoid, Cylinder 7 Deactivation Solenoid, Heated Oxygen Sensor, Intake Camshaft Position Actuator Park Lock Solenoid Valve Bk 1, Intake Camshaft Position Actuator Park Lock Solenoid Valve Bk 2

## **New Coverage – USA Asian**

### **Honda/Acura Coverage**

- Added coverage for 513 new system applications

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

AT Temp Lamp, AUTO STOP Indicator Lamp, Four Doors and Tailgate LCD lamp, Left Front Tire LCD Lamp, Left Rear Tire LCD Lamp, Reverse Alarm, Right Front Tire LCD Lamp, Right Rear Tire LCD Lamp, Auto Lock Cancel Switch, Display Do not have key, Exterior Buzzer Output, Immobilizer Lamp

### **Hyundai Coverage**

- Added coverage for 694 new system applications

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

PODS Reset

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

AWD-LOCK Mode Select, DBC-HAC Brake Lamp Relay (DBC-HAC Only), BSD Switch LED ON-OFF, 2-Turn Unlock-Dead Lock Output, A-C Compressor Relay, Ignition Coil Enable-Disable-#1, Ignition Coil Enable-Disable-#2, Ignition Coil Enable-Disable-#3, Ignition Coil Enable-Disable-#4, O2 Heater Front (B1-S1), O2 Heater Front (B2-S1), O2 Heater Rear (B1-S2), Power Supply to the IGN1-IGN2 Relay of Main MCU, Power Supply to the IGN1-STARTER Relay of Main MCU, DRV-AST Power Window Enable Output, ShortTermLoad Cut Relay-IPS Output, Stop Lamp Left-Right-HMSL Output (Option), Tailgate-Trunk Release Relay

### **Kia Coverage**

- Added coverage for 192 new system applications

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

Air Bleeding Mode (MGH-25 ABS), Air Bleeding Mode (MGH-40 ABS)

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

BSD Switch LED ON-OFF, A-C Compressor Relay, Ignition Coil Enable-Disable-#1, Ignition Coil Enable-Disable-#2, Ignition Coil Enable-Disable-#3, Ignition Coil Enable-Disable-#4, O2 Heater Front (B1-S1), O2 Heater Rear (B1-S2), Power Supply to the IGN1-IGN2 Relay of Main MCU, Power Supply to the IGN1-STARTER Relay of Main MCU, DRV-AST Power Window Enable Output, ShortTermLoad Cut Relay-IPS Output, Stop Lamp Left-Right-HMSL Output (Option), Tailgate-Trunk Release Relay

## ***Mitsubishi Coverage***

- Added coverage for 110 new system applications

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

Input Vehicle Speed:50km-H, Front-Back-Corner Sensor, A-C Compressor Relay O, A-L Actuator, A-C Compressor Drive, Air Outlet C-O Damper, In-Out Select Damper, LCD-Indicator, AFS-ACL Failure Indicator, AFS-ACL OFF Indicator, ASC-TCL Failure Indicator, ASC-TCL Status Info, A-T Failure (Symbol), A-T Oil Temp Indicator, A-T Position IND.:SNOW, A-T Position Ind:Blank, A-T Position Ind:Fail, A-T Position Indicator:1, A-T Position Indicator:2, A-T Position Indicator:3, A-T Position Indicator:4, A-T Position Indicator:5, A-T Position Indicator:6, A-T Position Indicator:A, A-T Position Indicator:D, A-T Position Indicator:D1, A-T Position Indicator:D2, A-T Position Indicator:D3, A-T Position Indicator:D4, A-T Position Indicator:D5, A-T Position Indicator:D6, A-T Position Indicator:Ds, A-T Position Indicator:Lo, A-T Position Indicator:N, A-T Position Indicator:P, A-T Position Indicator:R, A-T Position Indicator:Up, BEEP(A-C)1, BEEP(A-C)2, BEEP(A-C)3, SS4 Hi Gear-Auto, SS4 Hi Gear-Lock, SS4 Lo Gear-Auto, SS4 Lo Gear-Lock, Quarter P-W

## ***Nissan/Infiniti Coverage***

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

Fine adjustment of DS camera, top view, Fine adjustment of PAS camera, top view, Door unlocking Driver door/all doors, Electric Oil Pump Air Bleeding

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

Cruise Control-PCS-LKA Buzzer, ETS S-V, Buzzer 1(ADAS), Buzzer 1(CCM), Buzzer 2(ADAS), Buzzer 2(CCM), Buzzer 3(ADAS), Buzzer 3(CCM), Buzzer 4(ADAS), A-C INDICATOR, Front Assist Window, Front Driver Window, Key Reminder, Rear Assist Window, Rear Driver Window, RUN FLAT TIRE W-L, Trunk-back door, Trunk-Luggage Lamp Test, POWER WINDOW (LH-RH), EGR VOL CONT-V, FUEL-T TEMP SEN, PURG VOL CONT-V, TC-SC BYPASS VALVE, VENT CONTROL-V, VIAS S-V-1, VIAS S-V-2, A/C Compressor Relay Control, 12V BATTERY CHARGE W-L, DC-DC Conv Duty, EV SYSTEM W-L, F-S CHG RLY, ARC Disp 2, Esa Fixed Current Mode F-L, Esa Fixed Current Mode F-R, Esa Fixed Current Mode R-L, Esa Fixed Current Mode R-R, (TBD)TD-MRM Buzzer Drive, (TBD)TD-MRM Display, LANE DPRT W-L, BSW-BSI INDICATOR DRIVE, RCTA-BSW Indicator, Window lifter, front, Window lifter, rear left, Window lifter, rear right

## ***Subaru Coverage***

- Added coverage for 662 new system applications

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

Mode/Vent II, Auto Retractable Power Door Mirror Open Close ON/OFF Setting, Auto Retractable Power Door Mirror Open Trigger Setting, Reverse Interlocking Door Mirror Last Memory ON/OFF Setting, Clutch Engagement Point Adaptation

### **1 new Actuation type special test:**

Power Windows Tests

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

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

PCS Warning Timing State Stored 3

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

Cruise Control-PCS-LKA Buzzer, ECB Solenoid (SMC-SRC-SCC), H-B Motor Relay, 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, Cornering Light-Front Side Illuminate Light, Variable Shade Beam LH-RH, Cornering Light-Front Side Illuminate Light, A-C Driving Demand, A-O Servo Pulse(Rr P)~A-O Servo Pulse(Rr P), Rear A-C Mag Valve, A-T Indicator Operation (2), A-T Indicator Operation (3), A-T Indicator Operation (4), A-T Indicator Operation (B), A-T Indicator Operation (D), A-T Indicator Operation (L), A-T Indicator Operation (N), A-T Indicator Operation (P), A-T Indicator Operation (R), A-T Indicator Operation (S), A-T Indicator Operation (Sport M), A-T Indicator Operation (Sport S), A-T Oil Temperature Warning, A-T P Warning, Buzzer Operation (1.6khz, Vol S, W-O Damping), Buzzer Operation (2.0khz, Vol S, W-O Damping), Buzzer Operation (2.4khz, Vol L, W-O Damping), Buzzer Operation (800hz, Vol L, W- Damping), Buzzer Operation (800hz, Vol L, W-O Damping), Buzzer Operation (800hz, Vol S, W- Damping), Buzzer Operation (800hz, Vol S, W-O Damping), Fuel Gauge Operation (1-2), Fuel Gauge Operation (1-4), Fuel Gauge Operation (3-4), Fuel Gauge Operation For CNG (1-2), Fuel Gauge Operation For CNG (1-4), Fuel Gauge Operation For CNG (3-4), HV-EV System Indicator (0%), HV-EV System Indicator (100%), HV-EV System Indicator (200%), HV-EV System Indicator (300%), HV-EV System Indicator (400%), HV-EV System Indicator (-50%), HV-EV System Indicator (MAX), HV-EV System Indicator (MIN), INTUITIVE P-A LCD Indicator, INTUITIVE P-A LCD OFF Indicator, O-D OFF Indicator, ODO-TRIP Change Switch, Oil Pressure Meter Operation (1-2), Oil Pressure Meter Operation (1-4), Oil Pressure Meter Operation (3-4), SOC Gauge (1-2), SOC Gauge (1-4), SOC Gauge (3-4), Speedometer Operation (0km-H,0mph), Speedometer Operation (200km-H,200mph), Speedometer Operation (240km-H,240mph), Speedometer Operation (280km-H,280mph), Speedometer Operation (320km-H,320mph), Speedometer Operation (360km-H,360mph), Speedometer Operation (400km-H,400mph), Speedometer Operation (40km-H,40mph), Speedometer Operation (80km-H,80mph), Sub Fuel Gauge Operation (1-2), Sub Fuel Gauge Operation (1-4), Sub Fuel Gauge Operation (3-4), Headrest Front-Rear, Control The A-C Cut Signal, Control The A-C Magnet Clutch, Control The C-D, Control The ETCS Open-Close Fast Speed, Control The ETCS Open-Close Slow Speed, Control The Fuel Pump - Speed, Control The Injection Volume For A-F Sensor(CNG), Control The Injection Volume For A-F Sensor, Control The O-D Cut, Prohibit The Catalyst OT Misfire Prevent F-C, Cornering Light-Front Side Illuminate Light, Cornering Light-Front Side Illuminate Light (Dim), Cornering Light-Front Side Illuminate Light, Headlight Relay-Light Power Supply Relay, IG OFF P-W Control Permission Output, Taillight-Clearance Light, Trunk-Cargo Compartment Light to PSC, Headrest Front-Rear, BR2-BL2 Heater, BR5-BL5 Heater, Headrest Front-Rear, Ottoman Short-Long, Control The A-C Cut Signal, Control The Injection Volume For A-F Sensor

## ***New Coverage – USA European***

### ***Alpha Romeo Coverage***

- Added coverage for 272 new system applications

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

EPB Assembly Check

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

ASR-ESP Safety indication, ASR-ESP Safety Lamp, Hill-Holder Safety Lamp-Message, Alarm-Doors Status-Deterrence LED, All Stop Lights W-Combined Rear Lighting, DeadLock Relay-Independent Driver Door Unlock, Doors status - deterrence LED, Driver Doors Status - Deterrence LED, DRL - Front Park Lights, ECO-LPG-SS-E-Costing LED Command, Flasher - Rear backup Left Light, Flasher - Rear backup Right Light, Flasher Rear - Lateral Left, Flasher Rear - Lateral Right, Left (Front-Central-Rear) Turn Lights, Left (Front-Rear) Parking Lights, Left Turn Light Front-Lateral, Passenger Doors Status - Deterrence LED, Rear Fog Light or Second Backup Light - Side Marker Lights, Rear Parking Light - Side Markers, Right (Front-Central-Rear) Turn Lights, Right (Front-Rear) Parking Lights, Right Rear Turn-Stop (NAFTA), Stop - Position - Turn Left Light 1, Stop - Position - Turn Left Light 2, Stop - Position - Turn Right Light 1, Stop - Position - Turn Right Light 2, Stop - Position Left Light 1, Stop - Position Left Light 2, Stop - Position Right Light 1, Stop - Position Right Light 2, Turn - Rear backup Left Light, Turn - Rear backup Right Light, Turn Light Front - Lateral Left, Turn Light Front - Lateral Right, Turn Light Rear - Lateral Left, Turn Light Rear - Lateral Right, Lock - Unlock Steering Wheel, Frequency Step Selection Tuner AM-FM, Seek Status Tuner AM-FM, A-C Request, Air Vent - Floor Motor Distribution (Left side), Air Vent - Floor Motor Distribution (Right side), Main-Left Temp. Door Actuator Position, Brake Sys Fail Ind (EBD Included) - Park Brake Indication, Brk Sys fail Ind (EBD Included) - Man Park Brk Ind, CNG Failure - Reserve, Door-Boot-Bonnet Open Indication, Elec Stabil Ctrl (ESC) Sys Intrvntn - fail Ind HILL HOLDER Sys, ESC (Elec Stability Ctrl) Sys Intervention - Fail Indication, Glow plug indication - Cold Start inhibition, Glow Plugs Lamp (Diesel)-Cold Start Delay Inhibition, Lane Dep Warn (LDW) on Nt Armed- on Armed- on Warn, Lane Departure Warning (LDW) On Not Armed- On Armed- On Warning, LDW on not armed- on armed- on warning, LPG Failure - Reserve, Tire Pressure Module (TPMS) not available-not programmed, Type Of Fuel Supply (Gasoline-Alternative Fuel), Tyre Pressure Module (TPMS) Not Available-Not Programmed, Redundant Ignition RUN-START Feed Output, Frequency Step Selection Tuner AM-FM, Seek Status Tuner AM-FM, Engagement electrovalve PPV1 command (6th-7th-R-5th), Engagement electrovalve PPV2 command (2nd-3rd-4th-1st)

## ***Audi Coverage***

### **25 new Actuation type special test:**

Op And Disp A-C Rr Haptic FB Tst Ctrl Val, Op And Disp A-C Rr Speaker Tst Ctrl Val, Operating And Display Units For A-C Speaker Test Control Value, Cool Pmp For Lo Temp Circuit Act Tst Inp O-P Ctrl Parameter, Fresh Air - Air Recirculation - Air Flow Flap Ctrl Mot Sollwert, Frs Air - Air Recirculation - Air Flow Flap Ctrl Mot Inp O-P Co, Frs Air - Air Recirculation - Air Flow Flap Ctrl Mot Setpoint, Hyb EV Bat Pack Cool Ctrl Vlv B Tst Inp O-P Control Parameter, Ionisator Front Ionisator Aus-An, Ionisator Rear Ionisator Aus-An, Refrigerant Shut Off Valves Dynmc Test Inp O-P Ctrl Parameter, Seat heating level Rear LED indicator Seat heating Hi, Stellmotor B-SäUle-Fuß Links Hinten Intervallbetrieb, Stellmotor B-SäUle-Fuß Links Hinten Klappenposition, Stellmotor B-SäUle-Fuß Rechts Hinten Intervallbetrieb, Stellmotor B-SäUle-Fuß Rechts Hinten Klappenposition, Water Pump Setpoint, Water Valve Setpoint, Acoustic feedback buzzer – Chime, ECM-PCM Power Relay VW Common Control State, ECM-PCM Power Relay, General Inp O-P Tst Ctrl Val Veh Veloc Sig Tst, Sup V O-P Depth Discharge Protected Tst Ctrl Val, Sup V O-P On Actd Term 15 Tst Ctrl Val, Htd Str Wheel, Act Inp O-P Ctrl Parameter

## ***BMW/Mini Coverage***

### **1 new special test:**

Tail Lights

## ***Fiat Coverage***

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

EPB Assembly Check

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

ASR-ESP Safety indication, ASR-ESP Safety Lamp, Front Left - Rear Right Traction Control (Isolation Valve 1), Front Left - Rear Right Traction Control (Supply 1), Front Right - Rear Left Traction Control (Isolation Valve 2), Front Right - Rear Left Traction Control (Supply 2), Hill-Holder Safety Lamp-Message, Alarm-Doors Status-Deterrence LED, All Stop Lights W-Combined Rear Lighting, BACKUP LIGHT L-R, DeadLock Relay-Independent Driver Door Unlock, Doors status - deterrence LED, Driver Doors Status - Deterrence LED, DRL - Front Park Lights, ECO-LPG-SS-E-Costing LED Command, Flasher - Rear backup Left Light, Flasher - Rear backup Right Light, Flasher Rear - Lateral Left, Flasher Rear - Lateral Right, Front Wiper Start-Stop, FUEL FILTER HEATER - PARK (L-R), Left (Front-Central-Rear) Turn Lights, Left (Front-Rear) Parking Lights, Left Turn Light Front-Lateral, MIRROR PUDDLE LIGHT L-R, PARK - SIGNATURE LEFT, PARK - SIGNATURE RIGHT, Passenger Doors Status - Deterrence LED, Rear Fog Light or Second Backup Light - Side Marker Lights, Rear Parking Light - Side Markers, Right (Front-Central-Rear) Turn Lights, Right (Front-Rear) Parking Lights, Right Rear Turn-Stop (NAFTA), Stop - Position - Turn Left Light 1, Stop - Position - Turn Left Light 2, Stop - Position - Turn Right Light 1, Stop - Position - Turn Right Light 2, Stop - Position Left Light 1, Stop - Position Left Light 2, Stop - Position Right Light 1, Stop - Position Right Light 2, STOP - STOP TURN LEFT, STOP - STOP TURN RIGHT, TAIL - SIDE MARKER LEFT, TAIL - SIDE MARKER RIGHT, Turn - Rear backup Left Light, Turn - Rear backup Right Light, Turn Light Front - Lateral Left, Turn Light Front - Lateral Right, Turn Light Rear - Lateral Left, Turn Light Rear - Lateral Right, Lock - Unlock Steering Wheel, A-C Compressor Clutch Relay Control State, A-C Relay, O2 1-1 Heater Duty-Cycle, O2 1-2 Heater Duty-Cycle, Oxygen Sensor 1-1 Heater Duty-Cycle, Oxygen Sensor 1-2 Heater Duty-Cycle, Oxygen Sensor 2-1 Heater Duty-Cycle, Oxygen Sensor 2-2 Heater Duty-Cycle, Radiator-Condenser Cooling Fan Relay 1 Control State, Radiator-Condenser Cooling Fan Relay 2 Control State, Frequency Step Selection Tuner AM-FM, Seek Status Tuner AM-FM, Distribution (Left side), Air Vent - Floor Motor Distribution (Right side), Main-Left Temp. Door Actuator Position, Brake Sys Fail Ind (EBD Included) - Park Brake Indication, Brk Sys fail Ind (EBD Included) - Man Park Brk Ind, Brk Sys fail Ind (EBD Included) - Park Brk Ind, CNG Failure - Reserve, Door-Boot-Bonnet Open Indication, Door-Hood-Trunk Open Indication, Elec Stabil Ctrl (ESC) Sys Intrvntn - fail Ind HILL HOLDER Sys, ESC (Elec Stability Ctrl) Sys Intervention - Fail Indication, ESC (Electronic Stability Control) fault-intervention Lamp, ESC (Electronic Stability Control) Sys Intrvntn - fail Ind, Glow plug indication - Cold Start inhibition, Glow Plugs Lamp (diesel)-Cold Start Delay Inhibition, Glow Plugs Lamp (Diesel)-Cold Start Delay Inhibition, Lane Dep Warn (LDW) on Nt Armed- on Armed- on Warn, Lane Departure Warning (LDW) On Not Armed- On Armed- On Warning, LDW on not armed- on armed- on warning, LPG Failure - Reserve, Tire Pressure Module (TPMS) not available-not programmed, Type Of Fuel Supply (Gasoline-Alternative Fuel), Tyre Pressure Module (TPMS) Not Available-Not Programmed, Redundant Ignition RUN-START Feed Output, Frequency Step Selection Tuner AM-FM, Seek Status Tuner AM-FM, Engagement Electrovalve PPV1 Command (3rd-2nd-R), Engagement electrovalve PPV1 command (6th-7th-R-5th), Engagement Electrovalve PPV2 Command (1st-4th-5th-6th), Engagement electrovalve PPV2 command (2nd-3rd-4th-1st), Shift Solenoid S1 (ON-OFF Component), Shift Solenoid S2 (ON-OFF Component)

## ***Jaguar Coverage***

### **12 new special tests:**

ABS Control Valves -Control Supply 2 -Front Right-Rear Left, Engine Input-Output Parameters -Active Engine Mount Control, Engine Input-Output Parameters -Brake Switch 2, Engine Input-Output



Parameters -Brake Switch, Engine Input-Output Parameters -Cranking State, Engine Input-Output Parameters -Fuel Lift Pump Control, Engine Input-Output Parameters -Fuel Lift Pump, Engine Input-Output Parameters -Glow Lamp, Engine Input-Output Parameters -Kickdown, Engine Input-Output Parameters -Low Oil Pressure (Switch), Engine Input-Output Parameters -Malfunction Indicator Lamp, Engine Input-Output Parameters -Oil Pressure Lamp, Engine Input-Output Parameters -Park-Neutral Switch, Engine Input-Output Parameters -Starter Enable High Side, Engine Input-Output Parameters -Starter Enable Low Side, 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

## ***Land Rover Coverage***

### **12 new special tests:**

ABS Control Valves -Control Supply 2 -Front Right-Rear Left, Engine Input-Output Parameters -Active Engine Mount Control, Engine Input-Output Parameters -Fuel Lift Pump Control, Engine Input-Output Parameters -Glow Lamp, Engine Input-Output Parameters -Kickdown, Engine Input-Output Parameters -Malfunction Indicator Lamp, Engine Input-Output Parameters -Oil Pressure Lamp, Climate Ctrl Outputs -Heating Vent A-C Air Intake Pollution, Fresh-Recirculated Air Motor -Requested Position, 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

## ***Mercedes Benz Coverage***

- Added coverage for 2054 new system applications

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

Airmatic Central Reservoir Filling Valve, Wake-Up Wire, Left Rear Door Lighting Switch, AIS Dimming Activate, Front Roller Sun Blind / Rear Roller Sun Blind, Right Interior Rear Lamp Unit

## ***Volkswagen Coverage***

### **26 new Actuation type special test:**

Op And Disp A-C Rr Haptic FB Tst Ctrl Val, Op And Disp A-C Rr Speaker Tst Ctrl Val, Operating And Display Units For A-C Speaker Test Control Value, Cool Pmp For Lo Temp Circuit Act Tst Inp O-P Ctrl Parameter, Fresh Air - Air Recirculation - Air Flow Flap Ctrl Mot Sollwert, Frs Air - Air Recirculation - Air Flow Flap Ctrl Mot Inp O-P Co, Frs Air - Air Recirculation - Air Flow Flap Ctrl Mot Setpoint, Hyb EV Bat Pack Cool Ctrl Vlv B Tst Inp O-P Control Parameter, Ionisator Front Ionisator Aus-An, Ionisator Rear Ionisator Aus-An, Refrigerant Shut Off Valves Dynmc Test Inp O-P Ctrl Parameter, Seat heating level Rear LED indicator Seat heating Hi, Stellmotor B-SäUle-Fuß Links Hinten Intervallbetrieb, Stellmotor B-SäUle-Fuß Links Hinten Klappenposition, Stellmotor B-SäUle-Fuß Rechts Hinten Intervallbetrieb, Stellmotor B-SäUle-Fuß Rechts Hinten Klappenposition, Water Pump Setpoint, Water Valve Setpoint, Acoustic feedback buzzer – Chime, ECM-PCM Power Relay VW Common Control State, ECM-PCM Power Relay, General Inp O-P Tst Ctrl Val Veh Veloc Sig Tst, Sup V O-P Depth Discharge Protected Tst Ctrl Val, Sup V O-P On Actd Term 15 Tst Ctrl Val, Htd Str Wheel, Act Inp O-P Ctrl Parameter, Tail-Stop Lamp

## **Volvo Coverage**

### **28 new special tests including:**

CD-DVD Ejection, Fresh-Recirculated-Air Flap 100%, Function \*-FAV Button, Function-Continue Button, Function-EJECT Button, Function-EXIT Button, Function-Keypad Button [#], Function-Keypad Button 0, Function-Keypad Button 1, Function-Keypad Button 2, Function-Keypad Button 3, Function-Keypad Button 4, Function-Keypad Button 5, Function-Keypad Button 6, Function-Keypad Button 7, Function-Keypad Button 8, Function-Keypad Button 9, Function-PHONE Button, Function-Return Button, Function-SOUND Button, Front Pos.-Side Marker Lights 1, Front Pos.-Side Marker Lights 2, Rear Lid Power Latchg.Sys.-Unlock, Washer Jet - Mirror Heater, Function-Continue Button, Function-Return Button, Fuel Evaporation-Regeneration Valve, ASR-ESP Control Lamp, Remote Control-Panic Alarm, Remote Control-Proximity Light

