

# Bosch ADS Software Update – Apr 2025

## Ver 6.7

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

**Version 6.7** software includes model year **2025** and **2024** vehicle coverage and additional **ADAS** calibrations.

Enjoy improved user experience on the X Platforms with Bosch wiring diagrams with new interface offering easier and faster navigation.\*

Over 4K new special tests and new system applications included in this update.

Software and coverage feature details provided in these release notes.



ADS X

ADS

## Coverage Highlights (More Details start on Page 3)

### 2024 Coverage added – DTC, Data support and Bi-Directional functions

- **Acura** – ZDX

### 2025 Coverage added – DTC, Data support and Bi-Directional functions

- **Acura** – ZDX
- **Buick** – Enclave, Encore GX, Envision, Envista
- **Cadillac** – CT4, CT5, Escalade, Escalade ESV, Escalade IQ, Lyriq, Optiq, XT4, XT5, XT6
- **Chevrolet** – Blazer/EV, Colorado, Corvette, Equinox EV, Express 2500/3500/4500, Malibu, Silverado 1500/2500 HD/3500 HD/ EV, Suburban, Tahoe, Trailblazer, Traverse, Trax
- **Dodge** – Charger Daytona
- **Ford** – Bronco, Bronco Sport, E-350/450 Super Duty, E-Transit, F-150 Lightning, F-250/350, Maverick, Mustang, Mustang Mach-E, Ranger, Transit-150/250/350/350 HD
- **GMC** – Acadia, Canyon, Hummer EV Pickup/SUV, Savana 2500/3500, Sierra 1500/2500HD/3500HD/EV, Yukon/XL
- **Mitsubishi** – Eclipse Cross, Outlander Sport

## ADAS\*\* – New ADAS calibration coverage:

- **2015-2025 Coverage:**
  - **Acura** – MY2024-25 ZDX
  - **Audi** – MY2015 S3
  - **Buick** – MY2024-2025 Envision, MY2025 Encore GX, Envista
  - **Cadillac** – MY2025 CT5, Escalade, Escalade ESV, Lyriq, XT4, XT5, XT6
  - **Chevrolet** – MY2024-2025 Corvette, Traverse, MY2025 Blaze/EV, Colorado, Equinox EV, Express 2500/3500/4500, Malibu, Silverado 1500/2500 HD/3500 HD/EV, Suburban, Tahoe, Trailblazer, Trax
  - **Chrysler** – MY2025 Voyager
  - **Ford** – MY2025 Bronco Sport, Maverick, Mustang
  - **GMC** – MY2024-2025 Acadia, MY2025 Canyon, Hummer EV Pickup, Hummer EV SUV, Savana 2500/3500, Sierra 1500/2500 HD/3500 HD/EV, Yukon/XL
  - **Honda** – MY2025 Prologue
  - **Infiniti** – MY2025 QX55, QX60
  - **Toyota** – MY2025 Tundra
  - **Volkswagen** – MY2015 CC, MY2018 GTI
  - **Volvo** – MY2018 S60, MY2018 S60 Cross Country, V60 Cross Country, MY2017 V90 Cross Country
  - **Blind Spot** – Coverage for Lexus, Mazda, Mitsubishi, Toyota using CTA120

ADS 525X/625X only for bi-directional functions for Hyn/Kia/Gen, Nissan AutoAuth and DoIP system coverage.

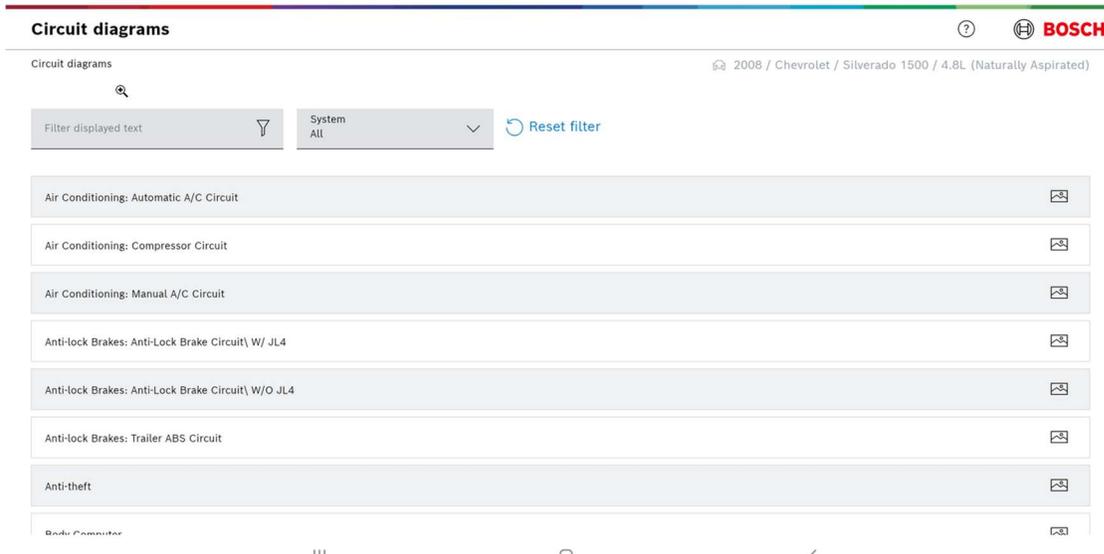
\*ADS 525X/625X only for new Wiring Diagram interface. Active Enhanced or ADAS Subscription req'd to access wiring diagrams.

\*\*All Dynamic ADAS calibrations are included in standard ADS Tool Subscription. Static calibrations that require ADAS targets and fixtures require additional ADAS Subscription used with ADS 625/625X.

## Software Highlights

### New Wiring Diagrams Interface

- New and improved Wiring Diagram interface offers easier and faster navigation
- Search by Keywords, Systems, or drill down to specific diagram



## New Coverage Details – USA Domestic

### New Chrysler, Dodge, Jeep, RAM Coverage

- Added coverage for 29 new system applications

#### 154 new Adjustment type special tests:

ABS Bleed Brakes, ABS Initialization, Active Grill Shutter Replaced, Actuator Calibration, AMP Non ANC Qualifier, Auto Door Lock, Auto High Beam Demo Mode Test, Automated Bleed, Back Lighting, Bleed Brakes, Brake Pedal Calibration, Brake Pedal Learn, CAM Crank Relearn Routine, Change Country Code, Channel Output Test, Check PCM VIN, Clear All Learned Seat Parameters, Clear DEF Pump Learned Offset Values, Clear Engine Auto Restart Crank Counter, Clear Learning Value, Clear Misfire TLC, Clear Stored Accumulated Fuel Mass, Clear TPM Sensor Rolls Test Results, Clear TPM Sensor Warnings, Clear Variable Line Pressure Counters, Clutch Pedal Learn, Configure License Plate Size, Coolant Three Way Valve Replaced, Coolant Three Way Valve, Crankshaft Pos. Variation Learn, Diesel Particulate Filter Regeneration, DPF Regen, DPF Replacement, Driving Regeneration Request, Dual Alternator Enable/Disable, ECU Replacement With Value Transfer, EGR Coolant Regeneration, EGR System Test, EGS Initialization, Emissions Rolls Test Mode, Enable / Disable Vehicle Features, Enable/Disable Seatbelt Minder Chime, Engine Idle Shutdown Feature Enable/Disable, EPB Service Procedures, Exhaust Phaser 1 Cleaning, Exhaust Phaser 2 Cleaning, Exit Logistic Mode, Exit Shipping Mode, FCM Enable Emissions Rolls Test Mode, Fire Protection System Activate, Fleet Pin Reset, Front Axle Disconnect Feature, Front Axle Nominal Tire Pressure, GSE Injector Adaptation, Headlamp Leveling, HVAC Actuator Calibration Test, Idle Shutdown Timer Adjustment, Initialize ABS, Initialize Cluster Configuration w/o Odometer Affect, Initialize CVT, Initialize ORC, Injector Quantity Adjustment, Intake Phaser 1 Cleaning, Intake Phaser 2 Cleaning, Key FOB Identification, Key Fobs Linked To Memory, KeySense PIN Reset, Learn ETC, Light Rain Sensor Calibration, Manual Logistic Mode Procedure Enable, Mass Air Flow Sensor Initialization, Microphone Output Short Test, Microphone Tone Test, Modify Volumetric Sensors Sensitivity, Most Recent Cool Down Test Results, New Engine Installed, Non-Volatile Memory Reset, Oil Change Light Reset, Oil Change Monitor Type, Oil Service Reset, Program Engine Serial Number, Program Tire Sensor Identifications, Program Tire Size, Program Variant Coding, Proxi Configuration Alignment, Proxi Configuration, PTO RPM Adjustment, Quick Learn, Quicklearn 62TE, Quicklearn Non RFE, Quicklearn RFE, RAM Active Air Box Calibration, Rear Axle Nominal Tire Pressure, Remote Start Temporary Disable, Reset Adaptive After Oil Change, Reset Adaptive Memory, Reset Adaptive Values, Reset Adaptives After Block Change, Reset After Replacement Of Lambda Sensor, Reset Air-Fuel Adaptives, Reset Camshaft Adaptives, Reset ECU, Reset Enhanced Automatic Oil Change Indicator, Reset Error Free Operation Time to 40 Hours, Reset Memory, Reset of Lambda Values, Reset of SCR Long Term Adaptation Factor, Reset Parameters to Default, Reset SCR Mileage Counter to 200 Miles, Reset Service Information, Reset Turbo Adaptives, Reset Turbo Over Boost Counter, Reset VCM Adaptives, Reset VVA Freeze Incorrect Request, Reset Zero Fuel Quantity Calibration, Rollover Detection, SCR DEF Tank Fluid Level Filter Reset, SCR System After ECU Replacement Procedure, SCR System Catalyst Reset, SCR System Dosing Module Replacement, SCR System Pressure Line Replacement, SCR System Tank or Pump Replacement, SCR System Wiring Harness Replacement, Seat Belts Alarm Enable, Seat Belts Alarm Exclusion, Sensor Wiring Test, Service Procedures, Set Max Cruise Speed, Set Max Vehicle Speed, Snorkel Output Test, Standardization, Stationary Desoot (DPF Regen), Steering Angle Calibration Test, Store Learned TCU Adaptives, System Air Mass/Pressure/Ride Height Readings, TCC Break In, TCM Reset Learned Adaptives Routine, Throttle Body Self-Learning, Tip Start Temporary Disable, Tire Pressure Sensor Registration, TLC Learn, TPM Pressure Update to

Placard Value, Trailer Hook Presence Disabling, Trailer Hook Presence Enabling, Turbo Actuator Pre-Align / Self Calibrate, Turn off Gain Mode Override, Update Front and Rear Axle Nominal Tire Pressure Values, Update Pressure Thresholds, Valve Body Solenoid Learn, VGT Learn, View/Reset Duty Cycle Maps, VIN Lock, Write Pinion Factor, Write VIN

### **1796 new Actuation type special tests:**

"EOBD" (Electronic On Board Diagnostic) failure indication, 1st Gear Clutch Test (62TE), 1st Gear Clutch Test (Non-RFE), 1st Gear Clutch Test (RFE), 1st Row Ceiling Light, 2/4 Clutch Volume Index Check, 2-3 Skip Shift Solenoid Control State, 2-4 Solenoid State, 2-4 Solenoid, 2C Or 2-4 Solenoid, 2nd Gear Clutch Test (62TE), 2nd Gear Clutch Test (Non-RFE), 2nd Gear Clutch Test (RFE), 2nd Prime Gear Clutch Test (RFE), 2nd Row Ceiling Light, 3rd Gear Clutch Test (62TE), 3rd Gear Clutch Test (Non-RFE), 3rd Gear Clutch Test (RFE), 3rd Row Ceiling Light, 4 Low Indicator, 4C Solenoid State, 4C Solenoid, 4th Gear Clutch Test (62TE), 4th Gear Clutch Test (Non-RFE), 4th Gear Clutch Test (RFE), 4th Row Ceiling Light, 4WD AUTO Indicator, 4WD Auto, 4WD Indicator, 4WD LED, 4WD Lock Indicator, 4WD Low, 4WD Neutral Indicator, 4WD, A/C Compressor Clutch Relay Control State, A/C Relay, A/C Select, A/C, ABS Failure Lamp, ABS fault Lamp, ABS Lamp, ABS Light, ABS, A-C Button, A-C Compressor Clutch Relay Control State, AC emergency shut off, AC Indicator, A-C INDICATOR, AC Off For Vehicle Manoeuvring, AC Request, A-C Request, A-C Select, ACC Enter In-Plant Mode, Activate Driver and Passenger Head Restraints, Activate TPM High Gain Mode, Active Exhaust Valve 1, Active Exhaust Valve 2, Active Grill Shutter Test, Actuate All Heaters, Actuate All Seat Heaters, Actuate All Vents, Adjustable Pedal Disable Relay, Air Bag Fail, Air Bag Lamp, Air Bag Light, Air Bag, Air Condition, Air Dam Test, Air Distribution Motor Command (Mode), Air Mixing Motor Command, Air Recirculation Motor Command, Airbag failure indication, Alarm/Doors Status Led, Alarm/Doors Status/Deterrence LED, Alarm-Doors Status-Deterrence LED, All Doors/Central Locks, All Doors-Central Locks, All Lights Front Command, All Lights Rear Command, All Stop Lights (EMEA 949), All Stop Lights (EMEA 952), All Stop Lights (NAFTA 949), All Stop Lights (NAFTA 952), ALL Stop Lights Command, All Stop Lights W-Combined Rear Lighting, All Stop Lights W-O Combined Rear Lighting, All Stop Lights, All Turn Lights Command, Alternator Current Limit, Alternator Field Control State, Alternator Field Duty Cycle, Alternator Field Duty-Cycle, Alternator Output Voltage Setpoint, Alternator Test, Ambient dimming command, Ambient Dimming, Ambient Illumination; Interior, Ambient Light Control, Ambient Light, Ambient Lighting Command, Ambient Temperature, AMP Output Short Test, AMP Output Tone Test, ANC Output Short Test, Antenna Power, Antilock brake (ABS) failure indication, Anti-lock Brake System (ABS) safety indication, Approach Light State, ASR-ESP Safety indication, Assist Call Button Green LED, Assist Call Button Red LED, Assist Call Green Day PWM, Assist Call Green Night PWM, Assist Call Red Day PWM, Assist Call Red Night PWM, Audio Test For Subwoofer Specific, Audio Test, Audio Video Signal Detection, AUTO Button, Auto high beam activation, Auto Indicator, AUTO LED, Auto Shutdown (ASD) #1 Relay Control State (Left Bank), Auto Shutdown (ASD) #2 Relay Control State (Right Bank), Auto Shutdown (ASD) Relay Control State, Auto Shutdown Relay Control State, Autocheck, Automated Driver Door Ajar Signal, Automated Driver Door Open, Automatic High Beam, Auxiliary Coolant Pump, Auxiliary Fuel Pump, Average Ambient Temperature, BACK button, Background LED Illumination Level, Background LED State, Backlight 1 Level, Backlight 2 Level, Backlight 3 Level, Backlight 4 Level, Backlight 5 Level, Backlight 6 Level, Backlight 7 Level, Backlight 8 Level, Backlight Control, Backlight Control-Backlight PWM1, Backlight Control-Backlight PWM2, Backlight Control-Backlight PWM3, Backlight Control-Backlight PWM4, Backlight Control-Backlight PWM5, Backlight Control-Backlight PWM6, Backlight Control-Blue Driver/Passenger Temp Down, Backlight Control-Display PWM, Backlight Control-HVAC Recirc/AC/Front Def/Rear Def, Backlight Control-LED Jewel Indicator auto, Backlight Control-LED Jewel Indicators excluding Auto, Backlight Control-Red Driver/Passenger Temp Up, Hazard, Backlight Control-Sapphire Blue Enter/Mute Knobs, Backlight Control-Sapphire

Blue HVAC Auto/Fan Off, Backlight Control-Sapphire Blue Knob Halo Rings, Backlight Control-Sapphire Blue Lower Row Switchbank Buttons, Backlight Control-Sapphire Blue Screen Off, Back Buttons, Backlight Leds Control, Backlighting Dimming Command, Backlighting, Backlighting: Driver Temp Down, Pass Temp Down, Backlighting: Driver Temp Up, Pass Temp Ujp., Backlighting: Knob Halo White Backlighting, Backup Alarm, Backup Light, Backup Lights, Baggage Lamps, Balance Settings, Bargraph, Bass Settings, Battery Bad (Red), Battery Coolant Heater, Battery Coolant Pump, Battery Good (White), Battery LED 1, Battery LED 2, Battery LED 3, Battery LED 4, Battery LED 5, Battery LED 6, Battery LED 7, Battery LED 8, Battery LED 9, Battery Voltage LEDs, Battery Voltage Output, Battery-Alternator FAIL-Charge, Bed Lamp, Blind Spot Indicator State, Blower Motor Command, Blower Motor Speed, Blue Cooled Seat Indicators, Blue Heated Seat Indicators, Blue Lights, Blue Temperature Bar, Boost Low Pressure Actuator, Boost Pressure Actuator, Boost Pressure, Brake Indicator, Brake Light, Brake State Output, Brake Switch, Brake Sys Fail Ind, Elec PK Brk Indication And EPB Fail Indicati, Brake Sys Fail Indication, Electronic Parking Brake Indication, Brake System Fail Indicator, EPB Indicator, Brake System Failure [EMEA Only], Brake System Failure [US Only], BRAKE Text, Brake Warning Lamp, Braking System Fail-Brake Fluid Low Level, Brk Sys fail Ind (EBD Included) - Man Park Brk Ind, Brk Sys fail Indication, Elec Park Brk Ind, Brk Sys fail Indication, Elect Park Brk Ind and EPB fail Ind, BSM State, BTSI Coil Output Control, BTSI Control, BTSI Solenoid, Button 11 (Spare), Button 14 (Spare), Button 15 (Spare), Button 16 (Spare), Button 24 (Spare), Button 6 (Spare), Button 7 (Spare), Button 8 (Spare), Button Indicators, Buttons/Encoder Control-Button 1 (Front Defrost), Buttons/Encoder Control-Button 10 (FCW), Buttons/Encoder Control-Button 12 (Back), Buttons/Encoder Control-Button 13 (Screen Off), Buttons/Encoder Control-Button 14 (ESP), Buttons/Encoder Control-Button 16 (PTS), Buttons/Encoder Control-Button 17 (Mute), Buttons/Encoder Control-Button 18 (Enter), Buttons/Encoder Control-Button 19 (Rear Defrost), Buttons/Encoder Control-Button 2 (Driver Temp Up), Buttons/Encoder Control-Button 20 (Passenger Temp Down), Buttons/Encoder Control-Button 21 (Auto), Buttons/Encoder Control-Button 22 (Driver Temp Down), Buttons/Encoder Control-Button 23 (Recirc), Buttons/Encoder Control-Button 3 (Fan Off), Buttons/Encoder Control-Button 4 (Driver Temp Up), Buttons/Encoder Control-Button 5 (AC), Buttons/Encoder Control-Button 9 (Eco), Buttons/Encoder Control-Rotary 1 Detents (Volume), Buttons/Encoder Control-Rotary 1 Direction (Volume), Buttons/Encoder Control-Rotary 2 Detents (Fan), Buttons/Encoder Control-Rotary 2 Direction (Fan), Buttons/Encoder Control-Rotary 3 Detents (Tune), Buttons/Encoder Control-Rotary 3 Direction (Tune), Buttons/Encoder Control-Rotary 4 Detents, Buttons/Encoder Control-Rotary 4 Direction, Buzzer Control, Buzzer, Cabin Temperature Sensor, Cargo Lamp, Cargo Light Indicator, Cargo Light, Catalyst Efficiency Test, CEGR H-Bridge Valve Duty Cycle, Ceiling Light Front Command, Ceiling Light Front, Ceiling Light Rear Left or Central, Ceiling Light Rear Left, Ceiling Light Rear Right, Ceiling Light, Center High Mount Stop Lamp, Center Stop Lamp, Central high mounted Stop Light (CHMSL), Central high mounted Stop Light, Central Lock, Central Stop Lamp, Central Unlock, Channel 1 Audio Control, Channel 10 Audio Control, Channel 11 Audio Control, Channel 12 Audio Control, Channel 2 Audio Control, Channel 3 Audio Control, Channel 4 Audio Control, Channel 5 Audio Control, Channel 6 Audio Control, Channel 7 Audio Control, Channel 8 Audio Control, Channel 9 Audio Control, Charge Air Cooler Coolant Pump, Charge Port Command CAN, Charge Port Command Hard Wired, Charge Port Lock Motor, Charge Port Request Tester, Charge Port Un-Lock Motor, Check Engine - MIL Lamp, Check Engine (MIL) Lamp, Check Engine MIL Lamp, Check Engine-MIL (Malfunction Indicator Lamp), Check PCM Odometer, CHMSL Lamp, CHSML and Stop/Turn Lights, Clearance Identification Lights Relay, Clutch Signal To ECM Output Control, CNG Indicator, CNG Injector Relay, CNG Shut Off Relay, CNG/Gasoline Forced Fuel Type, Cold Start Aid Driver 1, Comfort Closing And Opening, Comfort ClosingOpening, Comfort ENABLE Command, Comfort Enable, Command Key Unlock, Command Shift Lock, Compressed Natural Gas, Compression Test, Compressor Current, Control All Solenoids, Control chime, Control the steering column, Convenience/Reading Lamp,

Convenience-Reading Lamp, Coolant Bad Indicator, Coolant Good Indicator, Coolant High Temperature Auxiliary Electric Pump, Coolant Temp LED 1, Coolant Temp LED 2, Coolant Temp LED 3, Coolant Temp LED 4, Coolant Temp LED 5, Coolant Temp LED 6, Coolant Temp LED 7, Coolant Temp LED 8, Coolant Temp LED 9, Coolant Temp LEDs, Coolant Temperature, Coolant Three Way Valve Test, Cooldown Test, Cooled EGR H-Bridge Valve System Test, Cooled Seat Driver High Indicator, Cooled Seat Driver Low Indicator, Cooled Seat Driver Med Indicator, Cooled Seat Passenger High Indicator, Cooled Seat Passenger Low Indicator, Cooled Seat Passenger Med Indicator, Cooler Bypass Valve, Cooling Valve Position, Courtesy Lamps, Crankcase Ventilation Heater, Crankcase Ventilation, Cruise Control Lamp, Cyl 1 Deactivation Sol Cntrl State, Cyl 6 Deactivation Sol Cntrl State, Cyl 7 Deactivation Sol Cntrl State, Cylinder 1 Deactivation Solenoid Control State, Cylinder 4 Deactivation Solenoid Control State, Cylinder 4 Deactivation Solenoid, Cylinder 6 Deactivation Solenoid Control State, Cylinder 7 Deactivation Solenoid Control State, D+ Repetition Relay Command, Day Lights Left - Right, Day Lights Left -Right, Day Lights Left, Day Lights Right, Day Lights, Day Run Light (DRL) Parking Light Left (Halogen), Day Run Light (DRL) Parking Light Left (Xeno), Day Run Light (DRL) Parking Light Left LED, Day Run Light (DRL) Parking Light Left, Day Run Light (DRL) Parking Light Right (Halogen), Day Run Light (DRL) Parking Light Right (Xeno), Day Run Light (DRL) Parking Light Right LED, Day Run Light (DRL) Parking Light Right, Day Run Light (DRL) Parking Turn Light Left, Day Run Light (DRL) Parking Turn Light Right, Daylights and Position Left, Daylights and Position Right, Daylights Halogen Left, Daylights Halogen Right, Daylights Xenon Left, Daylights Xenon Right, DC Clutch Volume Index Check, Deactivation Parking Sensor LED, Deactivation Parking Sensor, Dead Lock Relay, DeadLock Relay, DeadLock Relay-Independent Driver Door Unlock, Dedicated DRL Lamp Left, Dedicated DRL Lamp Right, DEF (Reductant) Pressure Line Heater Test, DEF (Reductant) Tank Heater Test, DEF Dosing Injection Quantity, DEF Reductant Doser Prime Override Test, DEF Reductant Doser Pump Override Test, Defeat Engine ON, Diesel Cabin Heat 1, Diesel Cabin Heat 2, Diesel Cabin Heat 3, Diesel Cabin Heater #1, Diesel Cabin Heater #2, Diesel Cabin Heater #3, Diesel Cabin Heater 1, Diesel Cabin Heater 2, Diesel Cabin Heater 3, Diesel Cabin Heater 4, Diesel Fuel Heater Relay, Digital Inputs1 High Memory, Dimming display, Dimming Graphics, Direct Backlight, Disable Passenger Airbag Lamp Request, Display Dimming, DNA Status LED 3, Door Ajar Signal To Front Ceiling Dome, Door Ajar, Door Ambient Light State, Door Courtesy Lamp State, Door Handle Power Control, Door Handle Power, Door Handle Verification Test, Door Locks, Door Status LED Command, Door Status Led, Doors Status - Deterrence LED Driver Door, Doors Status - Deterrence LED Passenger Door, Doors status - deterrence LED, Double Start Override Relay, DPF Lamp, DPF Reset Option, DR Solenoid, Drive Style 2 LED Command, Drive style 2 LED, Drive Style 3 LED Command, Drive style 3 LED, Driver Cooled Seat, Driver Door Ajar Signal To Manual Transmission Automated, Driver Door Ajar Signal To MTA (Manual Transmission Automated), Driver Door Ajar Signal To MTA, Driver Door Handle And Puddle Light LED Command, Driver Door Lock Status LED Command, Driver Door Unlock, Driver Doors Status - Deterrence LED, Driver Heated Seat, Driver Side Seat Belt, Driver Temp Detents, Driver Temp Down Button, Driver Temp Rotary Direction, Driver Temp Up Button, Drivers Window Control, DRL - Front Park Lights, DRL Left, DRL Parking Light Left Command, DRL Parking Light Right Command, DRL Right, DRL, DSU LED Command 1, DSU LED Command 2, DSU LED Command 3, DTI FUEL TRANSFER RLY, DTI LTR CLNT PMP, DTI SPRCHRGR BPV MOTOR, Dual Speed Fuel Pump Relay, Dual Speed Oil Pump Status, Dual Speed Oil Pump, Duct Sensor - Floor Left, Duct Sensor - Floor Right, Duct Sensor - Panel Left, Duct Sensors -Panel Right, Dump Valve, Duty Cycle Purge Solenoid, Easy Entry/Exit, EBL Status, EC Mirror State, E-Call Button Backlight LED, E-Call Button Green LED, E-Call Button Red LED, E-Call Green Day PWM, E-Call Green Night PWM, E-Call Red Day PWM, E-Call Red Night PWM, ECO Button, ECO Indicator, ECO Led Command, ECO LED, ECO ON-OFF Indicator, ECO, ECO-LPG-SS-E-Costing LED Command, ECVD Compressor PWM Command, ECVD Compressor PWM Command, ECVD Compressor

PWM Command, EGR Cooler Bypass, EGR DC Motor Sol Vlv Recir Vlv, EGR DC Motor And Solenoid Valve, EGR Duty Cycle, EGR Positioner, EGR Throttle Valve, EGR Valve Replaced, EGR Valve Solenoid Duty Cycle, Elec Stabil Ctrl (ESC) Sys Intrvtn - fail Ind HILL HOLDER Sys, Electric Pump Drive Unit Command, Electric seat movement Relay, Electric Seat Movimentation Relay, Electric Thermostat Heater Solenoid Duty Cycle, Electric Thermostat Heater Solenoid, Electric Vacuum Pump, Electric Wastegate Valve, Electronic Brake Distribution (EBD) safety indication, Electronic Parking Brake (EPB) Failure Indication [US Only], Electronic Parking Brake (EPB) failure indication, Electronic Power Steering Fail, Electronic Stability Control (ESC) Fail, Electronic Stability Control (ESC) Indicator, Electronic Stability Control (ESC) OFF lamp indication, Electronic Stability Control (ESC) Off, Electronic Stability Control (ESC) system deactivation, Electronic Stability Control Off, Electronic Stability Control, EMCC VLP Solenoid, Emissions Rolls Test Mode Is Active, Enable sunroof unit, Engagement electrovalve PPV1 command (3rd/2nd/Reverse), Engagement Electrovalve PPV2 Command (1st/4th/5th/6th), Engine After Run Coolant Pump, Engine Check Lamp [MIL], Engine Digital Fan 1, Engine Digital Fan 2, Engine Misfire-EOBD Engine Fail DEF-UREA Fail, Engine Misfire-EOBD(European On Board Diagnostic) Engine Fail, Engine Off Injector Toggle Test, Engine Oil Pump Valve, Engine RPM Control, Engine Running Injector Kill Test, Engine Speed Cluster, Engine Speed Output, Engine Temp LEDs, Engine Temperature, Engine Water Over Temperature, Enter Button, Enter, EOBD (Electronic On Board Diagnostic) Failure Indicator, EOBD And Engine System Fault Lamp, EPB Failure Lamp, EPB Indicator And EPB Fail Indicator, EPB Service, EPB Warning Light, EPS Fail (Electric Power Steering), EQ Loudness Test, ESC - HILL HOLDER Sys Fail Indicator, ESC (Electronic Stability Control) System Deactivation, ESC / Hill Holder Failure Lamp, ESC Disable Lamp, ESC Failure Lamp, ESC Indicator, ESC Intervention-Fail, ESC Malfunction Lamp, ESC OFF lamp, ESC Off, ESC ON-OFF Indicator, ESC, ESCL 12 Volt Feed Control, ESCL Unlock Control, ESIM Forced Monitor Test, ESM Power Supply, ESP button, ESP Light, ETC Indicator Test, ETC System Test, ETC Throttle Follower Test, EVAP Purge Valve, Evaporator Sensor Temperature, Evaporator Temp Sensor, Evaporator Temperature Sensor, Even Gear Clutch (K2) Control|Solenoid Valve Command, Excessive Engine Fluid Temperature, Exhaust Brake Auto Green, Exhaust Brake Yellow, Exhaust Brake, Exhaust Gas Cooler Bypass Valve, Exhaust Gas Recirculation Valve, Extend Mileage With SCR Active Faults, External Mirror Fold, External Mirror Unfold, Externalcrown Light Rear Left LED, Externalcrown Light Rear Right LED, F L Heat Seat Request - Output, F L Vent Seat Request - Output, F R Heat Seat Request - Output, F R Vent Seat Request - Output, FAD Feedback Voltage, FAD Lock Request, FAD Supply Voltage, Fade Settings, Fan Climate Relay, Fan Clutch PWM Duty Cycle Output, Fan Clutch Test, Fan Off Button, Fan Rotary Detents, Fasten Seat Belt Indication, FCW (Front Collision Warning) OFF, FCW Button, FCW Indication Forward Collision Warning, Feature Pin, First Pass Cool Down Test Results, 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 Front Left, Flasher Front Right, Flasher Rear - Lateral Left, Flasher Rear - Lateral Right, Flex Fuel reserve indication, Flipper Glass 2, Fog Front Light Left, Fog Front Light Right, Fog Front Lights Left Right, Fog Lamps, Fog Light Led, Fog Lights, Fog Rear Light Left -T2 (952), Fog Rear Light Or Second Backup Light, Fog Rear Light Right -T2 (952), Fog Rear Lights -T2 (949), Foot Well, Foot Well/Halo Lamps, Foot Well-Halo Lamps, Forward Collision Warning Fail, Forward Collision Warning OFF, Forward Collision Warning Permanent Fail, Frequency Step Selection Tuner AM-FM, Frequency Step Selection, Front Blower Control, Front Blower Motor, Front Blower Speed, Front Ceiling Light - Inadvertent Lights, Front Ceiling Light + Inadvertent Lights, Front Ceiling Light Command Enable, Front Ceiling Light, Front Collision Off, Front Collision Off, FRONT DEFROST button, Front Defrost Indicator, Front Defrost, Front Driver Window Lifter Command Down, Front Driver Window Lifter Command Up, Front DRL Light Xenon, Front Fog Lamps, Front Fog Light Left, Front Fog Light ON, Front Fog Light Right, Front Fog Lights Halogen, Front Fog Lights, Front

Fog, Front Foglights, Front Jet Wiper, Front Lateral Left Turn Lights, Front Lateral Right Turn Lights, Front Left Flasher, Front Left Parking Light, Front Lock doors command, Front Mode 1 Actuator Position, Front Mode 1 Defrost Actuator Position, Front Mode 2 Panel Actuator Position, Front Mode Actuator Position, Front Mode Door Actuator Position, Front Off Road Camera Washer, Front Parking Light, Front Passenger Window Lifter Command Down, Front Passenger Window Lifter Command Up, Front Position Light Xenon, Front Position-DRL Light Halogen, Front Right Flasher, Front Right Parking Light, Front SIDE Marker Command, Front Side Marker, Front Unlock, Front Wash, Front Washer, Front Wiper (High/Low), Front Wiper (High-Low), Front Wiper (On/Off), Front Wiper (On-Off), Front Wiper Test, Front Wiper, Front/Rear Washer, Front-Rear Washer, Fuel Filter Heater, Fuel Filter Heating, Fuel filter water level warn lamp, Fuel Injector 1 Control State, Fuel Injector 1, Fuel Injector 2 Control State, Fuel Injector 2, Fuel injector 3 Control State, Fuel Injector 3, Fuel Injector 4 Control State, Fuel Injector 4, Fuel Injector 5 Control State, Fuel Injector 5, Fuel Injector 6 Control State, Fuel Injector 6, Fuel Injector 7 Control State, Fuel Injector 7, Fuel Injector 8 Control State, Fuel Injector 8, Fuel Injector Balance, Fuel Injector, Fuel Level LEDs, Fuel Level low, Fuel Level Output, Fuel Pre Supply Pump, Fuel Pressure Override, Fuel Pressure Regulated O/P (Bar), Fuel Pressure Regulator, Fuel Pump Relay Control State, Fuel Pump Relay, Fuel Pump, Fuel Reserve-Limited Range, Fuel System Run Up Test, Fuel Type, Functional LED Illumination Level, Functional LED State, Functional Leds Control, Gas Injector Relay, Gasoline Indicator, Gated Park ZFII Output Control, Gated Park ZFII Output, Gear Lever Position Display Test, Gear Position, Gear Selection, General Stop Function, Generator Ramp Time, Generator Speed Threshold, Glow Lamp, Glow Plug / Cold Inhibit Lamp, Glow plug indication - Cold Start inhibition, Glow Plug, Glow Relay, Hand Brake-Braking System Fail-Brake Fluid Low Level, Hazard Command LED, Hazard LED Command, Hazard LED, Head Lamp Wash Relay Command, Head Lamp Wash, Head Lamp Washer Relay, Head Rest Relay, Headlamp DRL Parking Light Left Signal, Headlamp DRL Parking Light Right Signal, Headlamp Washer, Heated Rear Window Led Command, Heated Rear Window Relay Command, Heated Rear Window Relay, Heated Rear Window, Heated Seat Driver High Indicator, Heated Seat Driver Low Indicator, Heated Seat Driver Med Indicator, Heated Seat Passenger High Indicator, Heated Seat Passenger Low Indicator, Heated Seat Passenger Med Indicator, Heated Steering Wheel indicator, Heated Steering Wheel Request - Output, Heated Steering Wheel, Heated Steering Wheel~Heated Steering Wheel, Heated Windows Command, Heater Rear Mirror, Heater Rear Window, HEV Belt-Driven Coolant Pump Clutch Relay, HEV Engine Aux Heater LIN Coolant Pump, HEV Engine Belt-Driven Coolant Pump Clutch Relay, HEV Fuel Tank Isolation Valve Solenoid, HEV TPIM Inverter LIN Coolant Pump, High Beam Enabled, High beam headlamp indication, High Beam Indicator, High BEAM Left Command, High Beam Left, High Beam Light Left, High Beam Light Right, High Beam Light, High Beam Lights, High Beam On, High BEAM Right Command, High Beam Right, High Beam Xenon with shutter, High Beam, High Beams Lights Halogen, High Beams Lights, High Beams, High Pressure Fuel Rail Test, High Side For Diesel Filter Heater Relay Command, High Speed Engine Cooling Fan Control, High Speed Fan Relay, High Speed Fan, Hill-Holder Safety indication, Horizontal Motor Backward/Forward, Horn relay command, Horn Relay, Horn, HPCR Duty Cycle, HVAC A-C Indicator, HVAC AUTO Indicator, HVAC Cool Down Test, HVAC Front DEF Indicator, HVAC Mode Button, HVAC Rear DEF Indicator, HVAC REC Indicator, HVAC Self Test, HVAC SYNC Indicator, I/O Control All-Limp Home Mode active, I/O Control All-Red Lamp, I/P Illumination, Ice Led, Idle RPM Test, Ignition Coil 1, Ignition Coil 10, Ignition Coil 2, Ignition Coil 3, Ignition Coil 4, Ignition Coil 5, Ignition Coil 6, Ignition Coil 7, Ignition Coil 8, Ignition Coil 9, Ignition Run - Acc 1, Ignition Run - Acc 2, Ignition Run - Start, Ignition Run, Ignition RUN/ACC 1, Ignition RUN/ACC 2, Ignition RUN/START, Ignition RUN-ACC 1, Ignition RUN-ACC 2, Ignition RUN-START, Immobilizer Antenna Test, Immobilizer Antenna, In Motion Menu, Indicator Channel, Indicator Control-A/C Indicator, Indicator Control-Auto Indicator, Indicator Control-FCW Indicator, Indicator Control-Front Defrost Indicator, Indicator Control-Indicator 1 (Auto), Indicator Control-Indicator 10 (SSO),

Indicator Control-Indicator 11 (PPA), Indicator Control-Indicator 12 (LDW), Indicator Control-Indicator 2 (AC), Indicator Control-Indicator 3 (Recirc), Indicator Control-Indicator 4 (Front Defrost), Indicator Control-Indicator 5 (Rear Defrost), Indicator Control-Indicator 6 (ECO), Indicator Control-Indicator 7 (FCW), Indicator Control-Indicator 8 (Traction Control), Indicator Control-Indicator 9 (PTS), Indicator Control-LDW Indicator, Indicator Control-Park Sense Indicator, Indicator Control-Rear Defrost Indicator, Indicator Control-Recirc Indicator, Indicator Lamp Airbag, Indicator LED Illumination Level, Indicator Leds Control, Injector Kill Test, Inlet Metering Valve, Inlet Valve FL, Inlet Valve FR, Inlet Valve Left Front, Inlet Valve Left Rear, Inlet Valve LF(Normally Open), Inlet Valve LR (Normally Open), Inlet Valve RF (Normally Open), Inlet Valve Right Front, Inlet Valve Right Rear, Inlet valve RL, Inlet Valve RR (Normally Open), Inlet valve RR, Input Test, Instrument Panel Dimming, Instrument Panel Illumination Level Output, Instrument Panel Dimming, Intake Manifold Short Runner Valve (SRV) Solenoid Control State, Intake Manifold Short Runner Valve Solenoid, Intake Manifold Tuning Valve (MTV) Solenoid Control State, Intake Manifold Tuning Valve Solenoid, Intake Port Shut Off, Intake Throttle Duty Cycle, Internal Led Night Lights, Internal Night Lights, Internalcrown Light Rear Left LED, Internalcrown Light Rear Right LED, Inverter Enable Command (949), Inverter Enable Command (952), Inverter Enable Command, Inverter Enable Relay, Inverter Enable, Inverter Status Indicator, Inverter Switch, Inverter, IOD RELAY ON LSD, IP dimming command, I-P Illumination, IPC Self Test, IRCM Heater, IRCM Relay Unlock Control, ITOS - Cabin Temperature, Key lock command, Key Pad Back Lighting, Keypad Backlight Control, KeySense, KIN ACC LED State, KIN Antenna Power, KIN LED Control, KIN OFF LED State, KIN RUN LED State, KIN Start/Stop LED State, KIN Start-Stop LED State, Knob LED control, Knob Lock State, L/U And SEL On Off Solenoid, L/U Solenoid Current, Lamp Control, Lane Dep Warn (LDW) on Nt Armed- on Armed- on Warn, Lane Departure Warning (LDW) On Not Armed- On Armed- On Warning, Lane Departure Warning (LDW) user disabled (OFF), Lane Departure Warning ON-OFF Indicator, Lateral Anti Tilt Sensor, Lateral Anti-tilt X Sensor, LC Clutch Volume Index Check, LC Solenoid, LDP Solenoid, LDW (Lane Departure Warning), LDW on not armed- on armed- on warning, LDW Warning Indicator, Leak Detection Pump Forced Monitor Test, Leak Detection Pump, LED Control-LED 1 (Auto Control), LED Control-LED 2 (EBL), LED Control-LED 3 (Front defrost), LED Control-LED 4 (recirc), LED Control-LED 5 (A/C), LED Lock Inhibition Rear Widows Lifter, LED Test - Damping Mode Automatic Active, LED Test - Damping Mode Hard / Sport Active, LED Test - Damping Mode Soft Active, Left Rear Tail/Park Lamp, Left (Front/Central/Rear) Turn Lights, Left (Front-Central-Rear) Turn Lights, Left (Front-Rear) Parking Lights, Left Air Catcher LED, Left Auxiliary High Beam, Left Backrest Heat Seat Linear PWM Request -Output, Left Cushion Heat Seat Linear PWM Request -Output, Left Day Light Lamp, Left DRL, Left Floor Duct Sensor, Left Front Fog Lamps, Left Front Park Lamp, Left Front Turn Lamp, Left HID Lamp, Left High Beam Shutter, Left High Beam, Left Low Beam, Left Panel Duct Sensor, Left Parking Lights, Left Rear AUX Turn Lamp, Left Rear Fog Lamps, Left Rear Stop Light (Fixed), Left Rear Tail Light + Side Marker, Left Rear Tail Light, Left Rear Tail-Park Lamp, Left Rear Turn Lamp (BUX), Left Rear Turn Lamp, Left Rear Turn Lights (EMEA), Left Rear Turn/Stop Lamp, Left Rear Turn-Stop (NAFTA), Left Rear Turn-Stop Lamp, Left Rear Turn-Stop Light (Fixed), Left Reartail-Park Lamp, Left Reverse Lamp 2, Left Reverse Lamp State, Left Reverse Lamp, Left SBL Command, Left Side Markers, Left Signal Mirrors/Side Repeaters (BUX), Left Signal Mirrors-Side Repeaters (BUX), Left Signature Lamp, Left Solar Sensor Values, Left Trailer Tow Turn/Stop Lamp, Left Trailer Tow Turn-Stop Lamp, Left Turn Indicator, Left Turn Light Front-Lateral, Left Turn Light Indication, Left Turn Light indicator, Left Turn Light, Left Turn Lights, Left Turn Signal Indicator, Left turn signal lamp indication, Left Turn Signal Lamp, Left Vent Seat Linear PWM Request -Output, LF Antenna Verification Test, Licence PLATE LED Lights Command, License Plate Lamp WK - Right Rear Rail Lamp WD, License Plate Lamp, License Plate Light, License Plate Lights Command, License Plate Lights, Lift Pump Relay, Liftgate Additional Parking Light Left And Right Command, Liftgate Parking Light Left And Right Command, Liftgate Release Motor, Light sensor,

LIN Anti Tilt Sensor Check, LIN Line Request Check, Lin Module Data, LIN Siren Check, LIN Ultrasonic Sensors Check, Linear Hall, Linear Solenoid A, Linear Solenoid B, Linear Solenoid C, Linear Solenoid D, Linear Solenoid E, Linear Solenoid F, Linear Solenoid G, Locate Learned Keys, LOCK 4WD, Lock Doors Command, Lock Inhibition Rear Widows Lifter LED, Lock Rear Doors Relay, Lock Unlock Doors LED, Longitudinal Anti Tilt Sensor, Loud Speaker Test, LOW BEAM Left Command, Low Beam Left, Low Beam Light Left, Low Beam Light Right, Low Beam Lights Halogen, Low Beam Lights Left Right, Low Beam Lights, LOW BEAM Right Command, Low Beam Right, Low Beam Xenon, Low Beams, Low Fuel Lamp, Low Fuel, LOW LED, Low Pressure Feed Valve 1, Low Pressure Feed Valve 2, Low Pressure Feed Vlv 1(Normal close), Low Pressure Feed Vlv 2(Normal close), Low Reverse Solenoid, Low Speed Fan Relay, Low-Reverse Solenoid, LPG Failure - Reserve, LPG Led Command, LR Clutch Volume Index Check, LR Solenoid, Main Left Temperature Actuator Position, Main/Left Temp Selected, Main-Left Temp. Door Actuator Position, Main-Left Temperature Actuator Position, Malfunction Indicator Lamp, Memory Seat ECU Self Test, Metering Unit Actuator, Metering Unit, Microphone Test, Mid-Range Settings, MIL Lamp, Mirror Direction Control, Mirror Fold Window Control, Mirror Fold, Mirror Heat State, Mirror Heater, Mirror LED -Day-Night, Mirror LED Left State, Mirror LED -ON-OFF, Mirror LED Right State, Mirror Right LED State, Mirror Signal Lamp State, Mirror Vertical/Horizontal Direction, Mode 2 Actuator Position (Defrost Panel Door), Mode Selection, Mode, Motorized Thermistor-Cabin Temp, MS Solenoid, Multiair VVA Solenoid 1, Multiair VVA Solenoid 2, Multiair VVA Solenoid 3, Multiair VVA Solenoid 4, MUTE button, Mute Test, Mute, Neutral Gate Test (62TE), Neutral Gate Test (Non-RFE), Neutral Gate Test (RFE), Neutral LED, Neutral, Night lighting command, Night lights, O2 1/1 Heater Duty-Cycle, O2 1/2 Heater Duty-Cycle, O2 Heater Test, OBD Button 1 Pad 1, OBD Button 1 Pad 2, OBD Button 2 Pad 1, OBD Button 2 Pad 2, OBD Button 3 Pad 1, OBD Button 3 Pad 2, OBD Button 4 Pad 1, OBD Button 4 Pad 2, OBD Button 5 Pad 1, OBD Button 5 Pad 2, OBD Button 6 Pad 1, OBD Button 6 Pad 2, OBD Button 7 Pad 1, OBD PPPA -Pad 1, OBD PPPA -Pad 2, OD Clutch Volume Index Check, Odd gear clutch (K1) control|solenoid valve command, Oil Pressure Bad, Oil Pressure Good, Oil Pressure Lamp, Oil Pressure LED 1, Oil Pressure LED 2, Oil Pressure LED 3, Oil Pressure LED 4, Oil Pressure LED 5, Oil Pressure LED 6, Oil Pressure LED 7, Oil Pressure LED 8, Oil Pressure LED 9, Oil Pressure LEDs, Oil Pressure Output, Outlet Valve FL, Outlet valve FR, Outlet valve front left activation, Outlet valve front right activation, Outlet Valve Left Front, Outlet Valve Left Rear, Outlet Valve LF (Normally Closed), Outlet Valve LR (Normally Closed), Outlet valve rear left activation, Outlet valve rear right activation, Outlet Valve RF (Normally Closed), Outlet Valve Right Front, Outlet Valve Right Rear, Outlet valve RL, Outlet Valve RR (Normally Closed), Outlet valve RR, Over Drive Solenoid On Time, Over Drive Solenoid, Over-Drive Solenoid, Overdrive Switch Test (Non-RFE), OverDrive Switch Test (RFE), Overdrive Switch Test, Oxygen Sensor 1 Heater, Oxygen Sensor 1/1 Heater Control State, Oxygen Sensor 1/1 Heater Duty Cycle, Oxygen Sensor 1/2 Heater Control State, Oxygen Sensor 1/2 Heater Duty Cycle, Oxygen Sensor 1-1 Heater Duty-Cycle, Oxygen Sensor 1-2 Heater Duty-Cycle, Oxygen Sensor 2 Heater, Oxygen Sensor 2/1 Heater Control State, Oxygen Sensor 2/1 Heater Duty Cycle, Oxygen Sensor 2/2 Heater Control State, Oxygen Sensor 2/2 Heater Duty Cycle, Oxygen Sensor 2-1 Heater Duty Cycle, Oxygen Sensor 2-1 Heater Duty-Cycle, Oxygen Sensor 2-2 Heater Duty Cycle, Oxygen Sensor 2-2 Heater Duty-Cycle, Oxygen System Heater Test, Parking Assistant LED, Parking Brake And Low Brake Fluid, Parking Light Indicator, Parttime LED, Passenger Airbag (PAB) Status, Passenger Airbag LED, Passenger and Rear Doors Unlock, Passenger Cooled Seat, Passenger Door Handle And Puddle Light LED Command, Passenger Door Lock Status LED Command, Passenger Door Power Window, Passenger Door Unlock, Passenger Doors Status - Deterrence LED, Passenger Heated Seat Relay, Passenger Heated Seat, Passenger Occupant Detection Sensor (ODS), Passenger seat Air-bag manual deactivation indication, Passenger Seat Belt, Passenger Seat Movement Relay Command, Passenger Temp Detents, Passenger Temp Down Button, Passenger Temp Rotary Direction, Passenger Temp Up Button, Pedals

Forward/Backward, PEPS Ignition Switch LED Command, Pilot 1 (USV Front, MCI Front -Normally Open), Pilot 1 (USV LF-RR, MCI LF-RR -Normally Open), Pilot 2 (USV Rear, MCI Rear -Normally Open), Pilot 2 (USV RF-LR, MCI RF-LR -Normally Open), PL Solenoid Current, Pneumatic Intercooler Bypass, Pneumatic Waste Gate, Police Passenger Un-Lock Motor, Position lamp indication, Position Lamp Indicator, Position Lamp Telltale, Position Lamp, Position Light Relay, Position Lights, Power (OFF), Power Down, Power Mirror Feed Relay Control, Power On and Disable User Inputs, Power Steering Failure Indication, Power Steering Failure Indicator, PPPA ON-OFF Indicator, PPPA, PPV1 Electro-Valve, PPV-K2 Clutch Electro-Valve, PPVS Electro-Valve, Pressure Control Solenoid Valve, Pressure Regulator Valve, Pressure Value Correction Shut-Off, Pre-Supply Pump, Priming 1 (HSV Front, LPF Front -Normally Closed), Priming 1 (HSV LF-RR, LPF LF-RR -Normally Closed), Priming 2 (HSV Rear, LPF Rear -Normally Closed), Priming 2 (HSV RF-LR, LPF RF-LR -Normally Closed), Proportional Purge Solenoid, Proportional Purge Solenoid., PTC Heater Relay 1, PTC Heater Relay 2, PTC Heater Relay 3, PTO, PTS Button, PTS ON-OFF Indicator, PTS Switch Simulation, Puddle Lamp State, Puddle Light Command Driver Side, Puddle Light Command Passenger Side, Puddle light Driver (Door handle and door panel), Puddle light Driver side, Puddle Light Driver, Puddle light Passenger (Door handle and door panel), Puddle light Passenger side, Puddle Light Passenger, Puddle Light Rear Driver(Door Handle And Door Panel), Puddle light Rear Left (Door handle and door panel), Puddle Light Rear Passenger(Door Handle And Door Panel), Puddle light Rear Right (Door handle and door panel), Puddle Light, Puddle Rear Light Left, Puddle Rear Light Right, Pump, Purge Solenoid Duty Cycle, Purge Valve Duty-Cycle, Purge Vapors Test, QPV K1 Clutch Electro-Valve, QVPM Enable Command, R L Heat Seat Request - Output, R R Heat Seat Request - Output, Radiator Cooling Fan PWM Cntrl State, Radiator Cooling Fan PWM Control State, Radiator Cooling Fan PWM Duty Cycle, Radiator Cooling Fan PWM Duty-Cycle, Radiator Cooling Fan Relay 1 Control State, Radiator Cooling Fan Relay 1,2,3 Control State, Radiator Cooling Fan Relay 2 Control State, Radiator Fan 1 Duty Cycle, Radiator Fan 2, Radiator Fan 3, Radiator Jalousie ShutterPosition, Radiator-Condenser Cooling Fan Relay 1 Control State, Radiator-Condenser Cooling Fan Relay 2 Control State, Radio Volume, Radio, Rail Pressure, Rain and Automatic Lights Sensors Check, Ram Active Air Box Test, Ram Box, Range Select Downshift Test Routine, Range Select Downshift Voltage, Range Select Upshift Test Routine, Range Select Upshift Voltage, Range Selection Electrovalve Command (PPVS), Read VIN, Ready To Drive, Ready, Rear Axle Lock, Rear Axle Locker Command, Rear Blower Speed, Rear Blower State, Rear Ceiling Light - Inadvertent Lights, Rear Ceiling Light + Inadvertent Lights, Rear Ceiling Light 1st Row, Rear Ceiling Light 2nd Row, Rear Ceiling Light, Rear Ceiling Lights, Rear Defrost Button, Rear Defrost Indicator, Rear Defrost, Rear Department, Rear Door Status LED, Rear Fog Lamps, Rear Fog Light / Side Marker Lights, Rear Fog Light or Second Backup Light - Side Marker Lights, Rear Fog Light or Second Backup Light, Rear Fog Light, Rear Fog Lights Left T2 Movable, Rear Fog Lights Right T2 Movable, Rear Fog Lights, Rear Fog T2 (Movable), Rear Fog, Rear Heated Window, Rear Left Handle And Puddle Light LED Command, Rear Left Parking Light, Rear Left Position Light, Rear Left Turn Light, Rear Left window lifter command, Rear Load Compartment Status LED Command, Rear Mode 1 Actuator Position, Rear Parking Light - Side Markers, Rear Parking Light / Side Markers, Rear Parking Lights Command LED, Rear Parking Lights Command, Rear Reverse Light (Movable), Rear Reverse Light Left -T2 (952), Rear Reverse Light Right -T2 (952), Rear Reverse Lights -T2 (949), Rear Right And Left Tail T2 (Movable), Rear Right Handle And Puddle Light LED Command, Rear Right Parking Light, Rear Right Position Light, Rear Right Turn Light, Rear Right window lifter command, Rear Stop Lights (Movable), Rear Trunk light, Rear Turn Lights Left EMEA, Rear Turn Lights Right EMEA, Rear Wash, Rear WINDOW Washer Command, Rear Window Washer, Rear Window Wiper (949), Rear WINDOW Wiper Command, Rear Window Wiper, Rear Wiper, RECIRC button, RECIRC Indicator, Recirc, Recirc. Door Actuator Position, Recirculation Door Actuator Position, Recirculation LED, Recirculation pump activation, Recirculation Pump, Recliner, Red Brake Lamp,

Red Hazard Button, Red Heated Seat and Steering Wheel Indicators, RED Heated Seat Indicators, Red Temperature Bar, Redundant Ignition RUN/START Feed Output Control, Redundant Ignition RUN-START Feed Output Control, Redundant Ignition RUN-START Feed Output, Remote Start Antenna Test, Repetition Driver Door Open For MTA (NCR), Repetition driver door open for MTA (Robotic Gear), Reverse Gear Clutch Test (62TE), Reverse Gear Clutch Test (Non-RFE), Reverse Gear Clutch Test (RFE), Reverse Gear Light, Reverse Gear Lights And Electrochromic Mirror Command, Reverse Gear Lights, Reverse Lamp, Reverse Lockout Solenoid Control State, Reverse Lockout Solenoid, Right (Front/Central/Rear) Turn Lights, Right (Front-Central-Rear) Turn Lights, Right (Front-Rear) Parking Lights, Right Air Catcher LED, Right Auxiliary High Beam, Right Backrest Heat Seat Linear PWM Request -Output, Right Cushion Heat Seat Linear PWM Request -Output, Right Day Light Lamp, Right DRL, Right Floor Duct Sensor, Right Front Fog Lamps, Right Front Park Lamp, Right Front Turn Lamp, Right Front Turn Light-Lateral, Right HID Lamp, Right High Beam Shutter, Right High Beam, Right Low Beam, Right Panel Duct Sensor, Right Parking Lights, Right Rear Fog Lamps, Right Rear Park Lamp, Right Rear Tail Light (Fixed), Right Rear Tail Light, Right Rear Tail/Park Lamp, Right Rear Tail-Park Lamp, Right Rear Turn Lamp (BUX), Right Rear Turn Lamp, Right Rear Turn Lights (EMEA), Right Rear Turn/Stop Lamp, Right Rear Turn-Stop (NAFTA), Right Rear Turn-Stop Lamp, Right Reartail-Park Lamp, Right Reverse Lamp #2, Right Reverse Lamp 2, Right Reverse Lamp State, Right Reverse Lamp, Right SBL Command, Right Side Markers, Right Signal Mirrors/Side Repeaters (BUX), Right Signal Mirrors-Side Repeaters (BUX), Right Signature Lamp, Right Solar Sensor Values, Right Temp Actuator Position, Right Temp. Door Actuator Position, Right Temperature Actuator Position, Right Temperature Selected, Right Trailer Tow Turn/Stop Lamp, Right Trailer Tow Turn-Stop Lamp, Right Turn Indicator, Right Turn Light Indication, Right Turn Light, Right Turn Lights, Right Turn Signal Indicator, Right turn signal lamp indication, Right Turn Signal Lamp Indicator, Right Turn Signal Lamp, Right Vent Seat Linear PWM Request -Output, Right Vent Seat Linear PWM Request, Roller Learning Shut-Off, Rotary 4 Detents, Rotary 4 Direction, RT-LT Sidemarkers-RT-LT Applique Parklamps, SBMT (Supply Battery Monitoring Time), SBMT 0, SBMT -Supply Battery Monitoring Time, SBMT, SBMT2 (Supply Battery Monitoring Time), SCREEN OFF button, Screen Off, Screen Test Pattern, SDAR Station Selection, SDC Status Red LED, SDC Status White LED, Seat Belt Lamp, Seat Belt Light, Seat belt unfastened Lamp, Seat belt unfastened Warning cycle, Seat Belt Warning Chime, Seat Belt, Seat Position Recall, Second Row Center Seatbelt Switch, Second Row Left Seatbelt Switch, Second Row Right Seatbelt Switch, Secondary Air Pump, Secondary Air Solenoid, Secondary Solenoid Current, Secondary/Thatchum Lock Motor, Secondary/Thatchum Un-Lock Motor, Secondary-Thatchum Lock Motor, Secondary-Thatchum Un-Lock Motor, Seek Status Tuner AM-FM, Seek Status Tuner DAB, Seek Status, Select Level Switches-Damping Mode Button, Sensor Rolls Test, SERV LED, Service Lamp, Set All Backlight Leds At PWM Value, Set All Functional Leds At PWM Value, Set Engine RPM Test, SET PWM Display (Brightness), Setting Dimming Levels (DISPLAY), Shift Lever Position Test (62TE), Shift Lever Position Test (Non-RFE), Shift Lever Position Test (RFE), Shift Lock Coil Command, Shift Lock Command, Shift Solenoid 1, Shift Solenoid 2, Shift Solenoid 3, Shift Solenoid 4, Shift Solenoid 5, Shift Solenoid 6, Shift Solenoid A, ShiftLock, Shutoff Correction Quantity, Shutoff Injector Quantity, Side Marker Front, Side Marker Lamps, Side Marker Lights Rear -T1 (952), Side Markers Command, Side markers, Side Mirrors Heater Control, Siren Test, Skip Shift Solenoid, Small Leak Verification Test, Snow Plow Left Turn Lamp, Snow Plow Park Lamps, Snow Plow Right Turn Lamp, Snow Plow Switch #1, Snow Plow Switch #2, Snow Plow Switch #3, Snow Plow Switch #4, Snow Plow Switch 1, Snow Plow Switch 2, Snow Plow Switch 3, Snow Plow Switch 4, Software Test, SPARE LED LAMP DRIVER, SPARE RELAY 1 LSD, SPARE RELAY 2 LSD, Speaker Quadrant Selection, Split Cooling Drive Duty Cycle, Sport Led, Sport ON-OFF Indicator, SRS Indicator Lamp Request, SRS Lamp, SRV Test, SS Command LED, SS LED command, SSB BACKLIGHT Control, Start Stop activation, Start/Stop System, Starter Relay,

Starter Solenoid (High), Starter Solenoid High, Starter Solenoid, Steering Wheel Linear PWM Request -Output, Stop Light, 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 Start LED, Stop - Start System Active Indicator, Stop / Start System Active Lamp, Stop All Actuators, Stop And Start Led, Stop Lamp, Stop Light Left, Stop Light Right, Stop Light, Stop Parking Lights Left, Stop Parking Lights Right, Stop Parking Turn Lights Left 1, Stop Parking Turn Lights Left 2, Stop Parking Turn Lights Right 1, Stop Parking Turn Lights Right 2, Stop Start Confirmation, Stop/Start System Active, StopStart LED Command, StopStart LED, Stop-Start ON-OFF Indicator, Stop-Start System Active, Street Bending Light (SBL) Left, Street Bending Light (SBL) Right, Sun Shade Control, Sunroof Abilitation, Surge Solenoid Control State, Surge Valve Solenoid, Sway Bar Indicator, Swing Gate Lock, Swing Gate Unlock, Switch Illumination State, Switch On EPB Failure Lamp, Switch On EPB Function Lamp, System Wiring Test, T Case Service Indicator Request, Tail Gate Lock, Tail Gate Unlock, Tail LAMP Parking Light Left Command, Tail LAMP Parking Light Right Command, Tail LAMP Stop Light Left Command, Tail LAMP Stop Light Right Command, Tail Or Tail Side Marker Rear Left -T1 (949), Tail Or Tail Side Marker Rear Right -T1 (949), Tail Rear Right And Left -T2 (949), Tail Stop Or Tail Stop Turn Rear Left -T1 (952), Tail Stop Or Tail Stop Turn Rear Right -T1 (952), Tail Stop Rear Left -T2 (952), Tail Stop Rear Right -T2 (952), T-Case Motor Duty Cycle, T-Case Motor Solenoid Lock, T-Case Motor-Motor Lock, T-Case Service Indicator Request, TCC Pressure Control Solenoid, TCM VIN Verification, Telltale ABS, Telltale Airbag, Telltale Brake, Telltale Charging, Telltale ESP, Telltale Fog Front, Telltale Glow Plug, Telltale High Beam, Telltale MIL, Telltale Seat Belt, Telltale Tire Pressure Monitor, Telltale Turn Left, Telltale Turn Right, Telltale - ESC Off, Telltale - ESC, Telltale - ESP Off, Telltale - Park, Telltale - Position Lamp, Telltale - Rear Fog, Telltale ESP/BAS, Telltale-Tire Pressure Monitor, Telltale-Tire Pressure, Telltale-Tow Mode, Temperature Warning Lamp, Temporary Remote Start Disable, Test Pattern Display, Thermistor Test, Thermostat Drive Duty Cycle, Third Row Center Seatbelt Switch, Third Row Left Seatbelt Switch, Third Row Right Seatbelt Switch, Throttle Valve Actuator, Throttle Valve, Tilt Mirrors in Reverse, Timeout Time Flash To Pass, Timeout Time Paddle Shift Switches, Tire Pressure Module ( TPMS), Tire Pressure Module (TPMS) not available-not programmed, Tire Pressure Module (TPMS), Tire Pressure Monitoring, Tire Pressure Warning Lamp, Tire Pressure, Tone Test, Topper Center Mounted Stop Lamp, TOPPER CHMSL, Torque Coupling Control, Tow-Haul Indicator, TOW-HAUL, TPM Sensor Rolls Test, TPMS Failure Lamp, TPMS Generic Failure Monitoring Lamp, TPMS Not Available - Not Programmed, TPMS Warning Light, Trac Cntrl Outlet Vlv 1(Normal open), Trac Cntrl Outlet Vlv 2(Normal open), Traction Control Outlet Valve 1, Traction Control Outlet Valve 2, Trailer Backup Lamps, Trailer BU Lamps, Trailer Tail Lamp Relay, Transfer Case 4WD/Lock/Part Lamp, Transfer Case AWD/Auto/Full Lamp, Transfer Case Low Lamp Request, Transfer Case Neutral Lamp Request, Transmission Verification Test, Treble Settings, Truck Bed Lighting Leds, Truck Cargo Lamps, Trunk Lamp, Trunk Latch Command relay, Trunk Light + Inadvertent Lights, Trunk Light Command, Trunk Light, Trunk Opening Relay Command, Trunk Opening Relay, Trunk Release Relay Command, Trunk Release Relay, Trunk/Flipper Glass Release Motor, Trunk-Flipper Glass Release Motor, Tumble Generator Valve, Tuner Rotary Detents, Tuner Rotary Direction, Turn - Rear backup Left Light, Turn - Rear backup Right Light, Turn Front Lateral Lights Left, Turn Front Lateral Lights Right, Turn Front Light Left, Turn Front Light Right, Turn Left, Turn Light Front - Lateral Left, Turn Light Front - Lateral Right, TURN Light Front Left Command, Turn Light Front Left, TURN Light Front Right Command, Turn Light Front Right, TURN Light Lateral Left Command, TURN Light Lateral Right Command, Turn Light Rear - Lateral Left, Turn Light Rear - Lateral Right, Turn Rear Backup Left Light, Turn Rear Backup Right Light, Turn Rear Lateral Lights Left, Turn Rear Lateral Lights Right, Turn Rear Light Left -T1 (EMEA), Turn Rear Light Right -T1 (EMEA), Turn Right, Turn Signal Lamp State, Turn Stop Rear Left Light -T1 (NAFTA), Turn Stop Rear Right Light -T1 (NAFTA), Twilight Sensor Value, UConnect

Live Apps Installation, UD Clutch Volume Index Check, UD Solenoid, UGDO (Universal Garage Door Open) enable command, UGDO Power Supply, Under Inflation Lamp, Under Inflation Monitoring Lamp, Underdrive Solenoid, Under-Drive Solenoid, Universal Garage Door Open, Unlock 1/Driver Lock, Unlock 1-Driver Lock, Unlock 2/Passenger Locks, Unlock 2-Passenger Locks, Unlock doors command, Unlock Doors, Unlock Run -Start, Unlock RUN-START, User Interface Test, Vacuum Cleaner Power Saver Indicator, Vacuum Cleaner Relay Driver, Vacuum Cleaner Switch Backlight, Vacuum Pump Relay, Variable Displacement AC, Variable Swirl Actuator, Variable Swirl Valve Shutoff, Variable Valve Timing, VVT Control Valve, Vehicle Speed Cluster, Vehicle Speed Output, Vehicle Sway Green, Vehicle Sway White, Vehicle Sway Yellow, Vertical Front, Vertical Rear, Video Input, View Last Successful Remote Start Event Data, View Last VTA Trigger Cause Data, View Remote Start Abort Data, View Remote Start Inhibit Data, View Satellite Sensor Information, View VTA Enable Data, VLP Solenoid, Volume Rotary Detents, Volume Rotary Direction, VSO Regeneration Command, VTA Indicator LED, VVA Cylinder #1, VVA Cylinder #2, VVA Cylinder #3, VVA Cylinder #4, VVA Solenoids Pre-Energization, VVL Service Test, VVT Exhaust Phaser 1 Actuator, VVT Exhaust Phaser 2 Actuator, VVT Intake Phaser 1 Actuator, VVT Intake Phaser 2 Actuator, VVT Tests, Wastegate Solenoid Control State, Wastegate Solenoid Duty Cycle, Water In Fuel Filter Lamp Command, Water In Fuel, Water Pump Charge Air Cooling, Welcome Lights Command, White Backlighting Buttons, White Backlighting Channel 1, White Backlighting Channel 2, White Backlighting Knob Buttons, White Backlighting Knob Indicators, White Knob Indicators, White Lower Halos, White Upper Halos, Window Control, Window Heater Led, Window Lifter Switch Enable, Window State, Windshield heater, Windshield Washer Command, Windshield Washer Relay, Windshield Washer, Windshield Wiper Relay, Windshield wiper, Wiper Status, WK Head Rest Relay, Yellow A/C and Auto Indicators, Yellow Button Indicators, Yellow Fault Lamp, Yellow Lane Departure Warning Indicator, Yellow Rear Defrost Indicator, Yellow Recirc Indicator

## New Ford/Lincoln Coverage

- Added coverage for 370 new system applications

### 20 new Adjustment type special tests:

ABS Service Bleed, Battery Monitor System Reset, Calibrate Longitudinal Acceleration Sensor, Clear Transmission Adaptive KAM Tables, Do Not Use The Transmission Adaptive KAM Tables, Electronic Integrated Park Brake, Factory Keyless Entry Code, Initialize Adaptive KAM Tables, LIN New Module Initialization, Misfire Monitor Neutral Profile Correction (Crank Relearn), Relearn Vehicle Data, Reset Exhaust Gas Recirculation (EGR) Throttle Parameters, Reset KAM, Reset Mass Air Flow (MAF) Sensor Parameters, SASM Module Reset, Steering Wheel Angle Trim, Stop Trans-Adaptive Learning And Measure Slip Time, TPMS Sensor Training Mode, Transmission Characterization - 6R80/100 RWD, Valve Calibration

### 165 new Actuation type special tests:

# Button, \* Button, ABS Warning Lamp, Air Conditioning Compressor Command State, Airbag Warning Indicator, All Door Unlock, All Injectors Disabled, All LCD Segments, AM Button, Anti-Theft Horn Status, AUX (Auxiliary) Button, Auxiliary Input LED 1, Auxiliary Input LED 2, Battery Charging Voltage Desired, Battery Saver Relay Status, Brake Shift Interlock, Cancel Button, CD Button, Central High Mounted Stop Lamp, Commanded Equivalence Ratio Air To Fuel Mixture Bank 1, Commanded Equivalence Ratio Air To Fuel Mixture Bank 2, Common Vertical Horizontal Left Mirror Motor, Common Vertical Horizontal Right Mirror Motor, Compact Disc LED 1, Compact Disc LED 2, Converter Pressure Control, Cruise Control Lamp, Delayed Accessory Power, Desired Camshaft Angle For All Banks, Desired Line Pressure Control, Down Button (S2), Eject Button, Engine Revolutions Per Minute, Engine Running Fuel Injector Control, Enter Button, EVAP Canister Vent

Valve, EVAP Leak Test, EVAP Purge/Vent Control, Evaporative Emission Canister Purge Valve Duty Cycle, Firm Shift, FM Button, Front Fog Lamp Indicator, Front Fog Lamps Request, Front Washer Pump Relay, Front Wiper Hi/Lo Control, Front Wiper Relay, Frost Warning, Fuel Gauge Indicator Control On/Off, Fuel Gauge Indicator Control, Fuel Pump - Duty Cycle, Gear Command By Output State Control, General Warning Indicator 1 (Red), General Warning Indicator 2 (Amber), General Warning Indicator Amber, General Warning Indicator Red, Generator Voltage Set Point, High Beam Indicator, High Beam, High Speed Engine Cooling Fan Control, Hydraulic Pump Motor, Illumination, Info (Information) Button, Instrument Cluster Trailer Indicator, Interior Lights 1 (PWM) Output, Interior Lights 2 PWM Output, KOEO Self Test, KOER Self Test, LCD Illumination Level, Left Bottom Bolster Bladder Inflate Status, Left Button (S3), Left Front Dump, Left Front Isolation Valve, Left Front/Right Rear Traction Control Supply 1, Left Front/Right Rear Traction Control Valve 1, Left Headlamp Low Beam, Left Position Lights Duty Cycle, Left Rear Dump, Left Rear Isolation Valve, Left Side Bolster Bladder Inflate Status, Left Stop Lamp Duty Cycle, Left Turn Signal Lamp Status, License Plate Light, Lights On Warning, Low Fuel Warning Indication, Low Speed Engine Cooling Fan Control, Low Washer Fluid Warning, Malfunction Indicator Lamp, Menu Button, Next / Last Button, O2 Sensor 1 For All Banks Commanded To Heat, O2 Sensor 2 For All Banks Commanded To Heat, Oil Pressure Low Indicator, On Demand Test, Output State Control Of Torque Converter, Park Brake Applied Lamp, Passenger Airbag Enable Lamp, Passive Sounder, Phone Button, Phone LED 1, Phone LED 2, Power Balance, Power Button, 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, Prev / First Button, Rear Defrost Relay Status, Rear Fog Lamp Indicator, Rear Washer Pump Relay, Rear Wiper Relay, Relative Compression, Reverse Lamp, Right Bottom Bolster Bladder Inflate Status, Right Button (S4), Right Front Dump, Right Front Isolation Valve, Right Front/Left Rear Traction Control Supply 2, Right Front/Left Rear Traction Control Valve 2, Right Headlamp Low Beam, Right Position Lights Duty Cycle, Right Side Bolster Bladder Inflate Status, Right Stop Lamp Duty Cycle, Right Turn Signal Lamp Status, Safety Belt Warning Lamp, Seat Bladder Pump Status, Seat Cushion Bladder Inflate Status 1, Seat Cushion Bladder Inflate Status 2, Seat Cushion Bladder Inflate Status 3, Seat Cushion Bladder Inflate Status 4, Seek Left Button, Seek Right Button, Set Button, Shift Solenoid A, 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, Sounder Output Request, Spark Advance - Control State, Speedometer %, Speedometer On/Off, Tachometer Gauge Indicator Control(%), Tachometer, Temperature Gauge %, Temperature Gauge On/Off, Tire Pressure Telltale Status, Tone Button, Traction Control Indicator, Traction Control Off Indicator, Trunk/Liftgate Release Output, Tuner LED 1, Tuner LED 2, Up Button (S1), Variable Camshaft Timing Exhaust Angle Desired, Vertical Left Mirror Motor, Vertical Right Mirror Motor, Warning Lamp Status 1 - Charge Warning

## New GM Coverage

- Added coverage for 1499 new system applications

### 148 new Adjustment type special tests:

14 Volt Power Module - Rail Overvoltage Exposure Reset, Adaptive Pressure Control Learn, Air Conditioning Electric Compressor - Rail Overvoltage Exposure Reset, Ambient Air Temperature Calculation Reset, Automated Brake Bleed, Automatic Headlamp Leveling Sensor Learn, AWD Disabled-by-Malfunction Counter Reset, Backup Battery Timer Reset, BARO Sensor Reset, Battery Charger Control Module - Rail Overvoltage Exposure Reset, Brake Pedal Position Sensor Learn, Brake Pedal Travel Sensor Learn, Brake Pressure Sensor Calibration, Brake System Plunger Motor Position Sensor Learn, Brake System Plunger Pressure Rise Starting Point Learn, CAN Bus Configuration Learn, Cancel Camera Learn, Catalytic Converter Reset, Clear Approach

Detection Disable Reasons, Clear Disable History Data, Clear Driver Window Learned Values, Clear Hard Disk Drive, Clear Left Rear Window Learned Values, Clear Manufacturer Enable Counter, Clear Passenger Window Learned Values, Clear Right Rear Window Learned Values, Clear Short Range Radar Sensor Vehicle Position, Clear Side Object Detection Disable History, Configuration/Reset Functions, Configure New Module, Control Module Reset, Copy And Paste TPM Information, Crankshaft Pos Variation Learn, Crankshaft Pos. Variation Learn, Cylinder Deactivation Exhaust Flow Valve Learn, DPF Pressure Sensor Reset, DPF Service Regeneration, DPF/Catalyst 2 Reset, Drive Motor Control Module - Rail Overvoltage Exposure Reset, Drive Motor Control Module 2 - Rail Overvoltage Exposure Reset, Drive Motor Control Module 3 - Rail Overvoltage Exposure Reset, Driver Information Center Options, Engine Air Filter Life Reset, Engine Block Coolant Valve Position Learn, Engine Coolant Control Valve Learn, Engine Coolant Flow Control Valve Learn, Engine Coolant Pump Data Reset, Engine Oil Life Reset, Excessive Clutch Slip Data Reset, Exhaust Control Valve Learn, Exhaust Gas Temperature Sensor Reset, Front Axle Brake Pad Life Monitoring Reset, Fuel Composition Reset, Fuel Injection Small Quantity Data Reset, Fuel Pump Driver Control Module Configuration, Fuel Pump Trim Reset, Fuel Rail Pressure Relief Valve Learned Values Reset, Fuel Trim Reset, Gear Position Sensor Learn, Gear Selector -N- Position Learn, Heated Oxygen Sensor Heater Resistance Learned Values Reset, Heater Core Coolant Temperature Sensor Reset, High Pressure Fuel Variable Reset, HO2S Heater Learn, HO2S Learned Values Reset, HVAC Actuators Learn, HVAC Afterblow Configuration, Hybrid/Electric Vehicle Battery Contactor Open Reason History Reset, Hybrid/Electric Vehicle Battery DC Charging Disabled Reset, Hybrid/Electric Vehicle Battery Interface Control Module Over Temperature Reset, Hybrid/Electric Vehicle Battery Interface Control Module Voltage Sensor Circuits High - Low Reset, Hybrid/Electric Vehicle Coolant Heater - Rail Overvoltage Exposure Reset, Hybrid/Electric Vehicle Range Reset, Hybrid/EV Battery Pack Charging Adaptive Learn Reset, Hydraulic Test, Idle Learn Reset, Info Display/Infotainment Faceplate Reset, Instrument Cluster Initialization, Intake System Learned Values Reset, Invalidate All Fobs, Learned Values Reset, License Compliance Materials Download Error Counter Reset, Longitudinal Acceleration Sensor Learn, Nitrogen Oxides Catalytic Converter Reductant Loading Reset, Nitrogen Oxides Catalytic Converter Reset, Nitrogen Oxides Sensor Reset, Park Brake Calibration, Parking Assist Sensor Learn, Particulate Filter Pressure Sensor Reset, Particulate Filter Regeneration, Passenger Presence Sensor Learn, Power Steering Softstops Learn, Prime Fuel Pump, Program Key Fob 1, Program Key Fob 2, Program Key Fob 3, Program Key Fob 4, Radio Favorites Reset, Range Actuator Correlation Learn, Range Actuator Learn, Rear Axle Brake Pad Life Monitoring Reset, Rear Differential Hydraulic System Service Bleed, Rear Gate Driver Information Center Message Reset, Reductant Fluid Tank Level Reset, Reductant System Data Reset, Remote Vehicle Speed Limiting Reset, Request Radio Registration, Reset Functions, Reset High Voltage Disable Request After Crash Event Detected, Reset History Buffer, Reset Particulate Filter, Reset Teen Driver Key PIN, Reset Transmission Control Module, RVS Disable History Reset, Setup SDM Part Number In BCM, Steering Wheel Angle Sensor Centering, Steering Wheel Angle Sensor Learn, Steering Wheel Angle Sensor Offset Calibration, System Isolation / Impact Sensor Fault - Hybrid/Electric Vehicle Battery System Reset, Throttle Body Idle Air Flow Compensation Reset, Timing Belt Life Reset, Tire Pressure Reset, Tire Pressure Sensor Registration, Tire Pressure Sensor Signal Reset, Tire Type/Pressure Selection, Transfer Case Clutch Overtemperature Counter Reset, Transmission Adaptive Pressure Reset, Transmission Clutch 1 Return Spring Learn, Transmission Clutch 1 Volume Learn, Transmission Clutch 2 Return Spring Learn, Transmission Clutch 2 Volume Learn, Transmission Clutch 3 Return Spring Learn, Transmission Clutch 3 Volume Learn, Transmission Clutch 4 Return Spring Learn, Transmission Clutch 4 Volume Learn, Transmission Clutch 5 Return Spring Learn, Transmission Clutch 5 Volume Learn, Transmission Oil Life Reset, Transmission Overtemperature Counter Reset, Transmission Service Fast Learn, Turbocharger Learned Values Reset, Turbocharger Wastegate

Learn, Turbocharger/Supercharger Boost Control Initial Position Learn, Vehicle Dynamic Sensor Offset Calibration, Vehicle Longitudinal Accelerometer Sensor Learn, WLAN Password Reset, WLAN Service Set Identifier (SSID) Reset, Yaw Rate Sensor Learn

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

A/C Compressor Clutch, A/C Relay, ABS Left Front Solenoid Valves, ABS Left Rear Solenoid Valves, ABS Pump Motor, ABS Right Front Solenoid Valves, ABS Right Rear Solenoid Valves, AC Compressor Solenoid Valve, Accent Lighting 1, Accent Lighting 2, Accessory Circuit 1 Command, Accessory Circuit 2 Command, Accessory Circuit 3 Command, Accessory Circuit 4 Command, Accessory Power Mode Indicator, Accessory Power Relay, Accessory/RAP Relay, Accessory/Retained Accessory Power Relay, Activate Rear Park Brake Service Position, Active Grill Air Shutter System, Active Grille Air Shutter 2, Active Grille Air Shutter, Air Cleaner Monitor Setup, Air Conditioning Compressor System Test Request, Air Conditioning Condenser Refrigerant Flow Valve - External Command, Air Conditioning Condenser Refrigerant Flow Valve - Heater Command, Air Conditioning Refrigerant Evacuation and Service Fill Request, Air Recirculation Door Motor Direction, All Door Lock Unlock, All Indicators, Assist Step Courtesy Lamp, Audio Source Control, Autostart/Autostop, Auxiliary Blower Motor Speed Command, Auxiliary Coolant Pump Relay, Auxiliary Coolant Pump Speed, Auxiliary Coolant Pump, Auxiliary Engine Coolant Fan 2, Auxiliary Engine Coolant Fan, Auxiliary Ignition Run Relay, Auxiliary Transmission Fluid Pump, Backlight Dimming, Backup Lamps, Balance, Bass, Blower Motor Speed, Brake Booster Electric Vacuum Pump, Brake Hydraulics Test, Brake System Boost Pressure Test, Brake System Hydraulics Corner Test, Brake Transmission Shift Interlock Solenoid Actuator, Camshaft Position Actuator, Cargo Lamp, Catalyst Test, Center Brake Lamp, Center High Mounted Stop Lamp, Central Stop Lamp, Charge Air Cooler Coolant Pump Speed, Charge Air Cooler Coolant Pump, Charge Port Door Actuator Position Command, Charge Port Light Command, Child Security Lock Motors, Child Security Lock/Window Lockout Switch Indicator, Chime, CMP Actuator Solenoid, Compression Test Starter Control, Compression Test, Control Functions, Cooling Fan 1, Cooling Fan 2, Cooling Fan 3, Cooling Fan Motor, Cooling Fan, Courtesy Lamps, Cylinder 1 Injector Flow Identifier, Cylinder 2 Injector Flow Identifier, Cylinder 3 Injector Flow Identifier, Cylinder 4 Injector Flow Identifier, Cylinder 5 Injector Flow Identifier, Cylinder 6 Injector Flow Identifier, Cylinder Deactivation Control Valve 2, Cylinder Deactivation Control Valve 3, Cylinder Deactivation Control Valve 4, Cylinder Deactivation Control Valve, Cylinder Deactivation Exhaust Control Valve Position, Cylinder Deactivation System Service Bay Test, Cylinder Deactivation System, Cylinder Power Balance, Daytime Running Lamps, Deactivate Brake Boost System, Deactivate Rear Park Brake Service Position, Depressurize Fuel System, Diesel Intake Air Flow Control Valve Position, Differential Clutch Control System Cleaning Procedure, Display Check, Display Dimming, Display Test, Door Courtesy Lamp State, Door Lock / Unlock, Drive Unit Fluid Pump Speed Command, Drive Unit Park Control Actuator Command, Driver Alert, Driver Information Center Segments, Driver Mirror Fold, Driver Mirror Movement, Driver Seat - Blower Command, Driver Seat Back Horizontal Movement, Driver Seat Cushion Front Vertical Movement, Driver Seat Cushion Heating, Driver Seat Cushion Left Front Haptic Movement, Driver Seat Cushion Left Rear Haptic Movement, Driver Seat Cushion Rear Vertical Movement, Driver Seat Cushion Right Front Haptic Movement, Driver Seat Cushion Right Rear Haptic Movement, Driver Seat Horizontal Movement, Driver Seat Lumbar Support Horizontal Movement, Driver Window Motor, EGR System Flow Deviation Service Bay Test, Electric Air Conditioning Compressor Run-In, Electronic Limited Slip Differential, Electronic Transmission Range Selection Request, Engine Block Coolant Control Valve Position, Engine Block Coolant Valve, Engine Controls Ignition Relay, Engine Controls Ignition Supply Voltage, Engine Coolant Control Valve Mode, Engine Coolant Control Valve Position, Engine Coolant Control Valve, Engine Coolant Fill, Engine Coolant Flow Control Valve Position, Engine Coolant Pump, Engine Cooling Fan 2, Engine Cooling Fan, Engine Oil Pressure

Control Solenoid Valve, Engine Oil Pressure Control Valve, Engine Oil Pressure, Engine Oil Type Setup, Engine Serial Number, Engine Speed Control, Engine Speed, Equalize All Air Spring Pressures, Equalize Front Axle Spring Pressures, Equalize Rear Axle Spring Pressures, Erase Valet Mode Code, EVAP Canister Purge Valve, EVAP Purge Pump, EVAP Purge Service Bay Test, EVAP Purge Solenoid Valve Leak Test, EVAP Purge Solenoid Valve, EVAP Purge Solenoid, Evap Purge Valve 2, EVAP Purge/Seal, EVAP Service Bay Test, EVAP Service Bay, EVAP Vent Solenoid, Evaporative Emission Canister Purge Valve Leak Test, Evaporative Emission Canister Vent Valve, Even Gear Clutch Control System Test, Even Gear Clutch Hydraulic Control System Cleaning Procedure, Even Gear Shift Fork Control System Test, Even Gear Shift Fork System Cleaning Procedure, Exhaust Camshaft Position Actuator Bank 1, Exhaust Camshaft Position Actuator Bank 2, Exhaust Camshaft Position Actuator Position, Exhaust Camshaft Position Actuator, Exhaust CMP Actuator Bank 2, Exhaust CMP Actuator Solenoid Bank 1, Exhaust CMP Actuator Solenoid Bank 2, Exhaust CMP Actuator, Exhaust Control Valve Position, Exhaust Gas Recirculation Valve 2 Position, Exhaust Gas Recirculation Valve 2, Exhaust Gas Recirculation Valve Position, Exhaust Gas Recirculation Valve, Exhaust Pressure Regulator Valve Position, Exhaust Pressure Regulator Valve, Exit Four Corner Air Suspension Service Control Mode, Exterior Driver Door Handle Switch, Exterior Left Rear Door Handle Switch, Exterior Passenger Door Handle Switch, Exterior Right Rear Door Handle Switch, Fader Position Control, Fan 3, Fan Relay 1, Fan Relay 2, Fog Lamps, Forward Collision Alert Switch, Front Axle Differential Lock High Control Relay, Front Axle Differential Lock Indicator, Front Axle Differential Lock Low Control Relay, Front Brake Caliper Piston Extend, Front Brake Caliper Piston Retract, Front Fog Lamps, Front Suspension Position Sensor Trim Height, Fuel Control Loop Status, Fuel Heater, Fuel Injector Balance, Fuel Pressure Control - Regulator 1, Fuel Pressure Control - Regulator 2, Fuel Pressure Regulator 2, Fuel Pressure Regulator, Fuel Pressure, Fuel Pump Enable, Fuel Pump Speed, Fuel Pump, Fuel Rail Pressure Bank 2, Fuel Rail Pressure, Fuel System High Pressure Test, Fuel System Pressure Test, Fuel Tank Drain, Fuel Trim Enable, GEN L-Terminal, Generator Regulator Setpoint, Glow Plugs, Green Indicator, Hands-Free Liftgate Sensor Lamp, Hands-Free Sensor Lamp Command, Hazard Lamps Switch Backlight, Headlamp Leveling Motors, Headlamp Washer Relay, Headlamps Vertical Motors, Head-Up Display Dimming Level, Head-Up Display Pattern Check, High Beam, High Beams, High Fuel Pressure Limiter Valve Test, High Side Driver 1, High Side Driver 2, HO2S Bank 1 Sensor 1 - Heater, HO2S Bank 1 Sensor 2 - Heater, HO2S Bank 2 Sensor 1 - Heater, HO2S Heater Sensor 1, HO2S Heater Sensor 2, Horn Relay, Hybrid/Electric Vehicle Battery Pack Capacity Fast Learn, Hybrid/Electric Vehicle Service Coolant Fill Request, Hydraulic System Leak Test, Ignition Timing Retard, Illuminate All Indicators, Inadvertent Load, Incandescent Dimming, Indicator Dimming, Info Display Dimming, Info Display Pattern 1 Check, Info Display Test, Instrument Cluster Dimming, Instrument Cluster Gauge Sweep, Instrument Cluster, Instrument Panel Illumination, Intake Air Flow Control Valve, Intake Cam Position Actuator Park Lock B1, Intake Cam Position Actuator Park Lock B2, Intake Camshaft Pos Actuator Park Lock Solenoid B1, Intake Camshaft Pos Actuator Park Lock Solenoid B2, Intake Camshaft Position Actuator Bank 1, Intake Camshaft Position Actuator Bank 2, Intake Camshaft Position Actuator Locating Pin Control Valve Test Bank 2, Intake Camshaft Position Actuator Locating Pin Ctrl Vlv Bank 2, Intake Camshaft Position Actuator Position, Intake Camshaft Position Actuator, Intake CMP Actuator Bank 2, Intake CMP Actuator Solenoid Bank 1, Intake CMP Actuator Solenoid Bank 2, Intake CMP Actuator Solenoid, Intake Manifold Runner Control Valve, Intake Manifold Tuning Valve 2 Position Sweep, Intake Manifold Tuning Valve 2, Intake Manifold Tuning Valve Position Sweep, Intake Manifold Tuning Valve, Intake/Single Camshaft Position Act Locating Pin Ctrl Vlv Test, Intake/Single Camshaft Position Actuator Locator Pin Ctrl Valve, Internal Combustion Engine Autostart/Autostop, Key Fob Button Test, Lane Departure Switch LED, Lane Departure Warning Indicator, Lane Departure Warning Switch, LED Backlight Dimming, Left Assist Step Motor, Left Auxiliary Daytime Running Lamps, Left Auxiliary Tail and Stop Lamp, Left Backup Lamp, Left Brake

Lamp, Left Cornering Lamp, Left Daytime Running Lamp, Left Dedicated Daytime Running Lamp, Left Fog Lamp, Left Front Air Spring Deflate, Left Front Air Spring Inflate, Left Front Brake Pressure Test, Left Front Corner, Left Front Park Lamp, Left Front Park Lamp/Daytime Running Lamp, Left Front Shock Absorber Actuator, Left Front Suspension Position Sensor Trim Height, Left Front Turn Lamp, Left Front Turn Signal Lamp, Left Front Window Switch Command, Left Headlamp Low Beam, Left Headlamp Vertical Motor, Left High Beam, Left Low Beam, Left Low Beam/Daytime Running Lamp, Left Lower Park/Daytime Running Lamp, Left Park Brake Actuator, Left Park Lamps, Left Rear Air Spring Deflate, Left Rear Air Spring Inflate, Left Rear Auxiliary Turn Signal Lamp, Left Rear Brake Pressure Test, Left Rear Brake/Park Lamp, Left Rear Corner, Left Rear Park Lamp, Left Rear Seat Heating Indicator, Left Rear Shock Absorber Actuator, Left Rear Stop/Park Lamp, Left Rear Suspension Position Sensor Trim Height (mm), Left Rear Turn Signal Lamp, Left Rear Turn Signal/Brake Lamp, Left Rear Turn Signal/Stop Lamp, Left Rear Window Motor, Left Side Marker Lamp Command, Left Side Object Detection Indicator, Left Stop Lamp, Left Tail Lamp, Left Temperature Door Motor Direction, Left Temperature Door Position, Left Trailer Tail Lamp, Left Trailer Tow Turn/Stop Lamp, Left Trailer Turn Signal Lamp, Left Trailer Turn Signal/Stop Lamp Command, Left Turn Signal, Level Vehicle to Target Height, License Plate Lamps, Liftgate Open/Close, Liftgate Window Unlatch, Limited Slip Differential Clutch Control System Test, Line PC Solenoid, Line Pressure Control Solenoid Valve, Line Pressure Hydraulic Control System Cleaning Procedure, Line Pressure, Low Beam Lamps, Low Beams, Low-Voltage Circuit Enable, LR Turn Signal, Lumbar Forward/Backward, MAF Sensor Bank 1, Malfunction Indicator Lamp, Mass Airflow Sensor Bank 2, Mass Airflow Sensor Control Circuit Bank 2, Mass Airflow Sensor, Master Cylinder Pressure Test Data, Mid-Range, Mirror Folding Control, Mode Door Position, Next Available Slot, O2 Sensor Heater Bank 1 Sensor 1, O2 Sensor Heater Bank 1 Sensor 2, O2 Sensor Heater Bank 2 Sensor 1, O2 Sensor Heater Bank 2 Sensor 2, Object Detection Alert Indicators, Odd Gear Clutch Control System Test, Odd Gear Clutch Hydraulic Control System Cleaning Procedure, Odd Gear Shift Fork Control System Test, Odd Gear Shift Fork Hydraulic Control System Cleaning Procedure, OnStar Buttons, Oxygen Sensor 1-1 Heater, Oxygen Sensor 1-2 Heater, Oxygen Sensor 2-1 Heater, Oxygen Sensor 2-2 Heater, Parking Assist Switch LED, Parking Lamps, Particulate Filter Regeneration Enable, Passenger Air Bag Off Indicator, Passenger Air Bag On Indicator, Passenger Mirror Fold, Passenger Mirror Movement, Passenger Seat - Blower Command, Passenger Seat Belt Reminder Indicator, Passenger Seat Belt Tension Sensor, Passenger Seat Cushion Heating, Passenger Window Motor, PC Solenoid 2, PC Solenoid 3, PC Solenoid 4, PC Solenoid 5, Phone Call Test, Pneumatic Connection Pressure Test, Power Mode Timeout, Pressure Control Solenoid Valve 2, Pressure Control Solenoid Valve 4, Pressure Control Solenoid Valve 5, Pressure Control Solenoid Valve, Proactive Alerts, Pump Motor, Radio Tuner AM Frequency, Radio Tuner FM Frequency, Range Actuator, Read LIN Bus Device ID Information, Rear Axle Differential Lock High Control Relay, Rear Axle Differential Lock Indicator, Rear Axle Differential Lock Low Control Relay, Rear Brake Caliper Piston Extend, Rear Brake Caliper Piston Retract, Rear Cross Traffic Audible Alert, Rear Cross Traffic Visual Alert, Rear Defogger, Rear Defrost, Rear Differential Clutch Motor Current, Rear Differential Clutch Solenoid Valve, Rear Fog Lamp(s) Relay, Rear Fog Lamp, Rear Fog Lamps, Rear Mode Door Actuator Position, Rear Temperature Door Motor Direction, Rear Washer Relay, Rear Wiper, Rearview Camera Display, Red Indicator, Reductant Heater 2, Reductant Heater 3, Reductant Heater, Reductant Injection Quantity Test, Reductant Injector 2 Quantity Test, Reductant Injector 2, Reductant Injector, Reductant Pump, Reductant Purge Valve, Reductant System Leak Test, Reductant System Malfunction Warning Service Bay Test, Reductant System Tamper Warning Service Bay Test, Reverse Inhibit, RF Turn Signal, Right Assist Step Motor, Right Auxiliary Daytime Running Lamps, Right Auxiliary Tail and Stop Lamp, Right Backup Lamp, Right Brake Lamp, Right Cornering Lamp, Right Daytime Running Lamp, Right Dedicated Daytime Running Lamp, Right Fog Lamp, Right Front Air Spring Deflate, Right Front Air Spring Inflate, Right Front Brake

Pressure Test, Right Front Corner, Right Front Park Lamp, Right Front Park Lamp/Daytime Running Lamp, Right Front Shock Absorber Actuator, Right Front Suspension Position Sensor Trim Height, Right Front Turn Signal Lamp, Right Headlamp Low Beam, Right Headlamp Vertical Motor, Right High Beam, Right Low Beam, Right Low Beam/Daytime Running Lamp, Right Lower Park/Daytime Running Lamp, Right Park Brake Actuator, Right Park Lamps, Right Rear Air Spring Deflate, Right Rear Air Spring Inflate, Right Rear Auxiliary Turn Signal Lamp, Right Rear Brake Pressure Test, Right Rear Brake/Park Lamp, Right Rear Corner, Right Rear Park Lamp, Right Rear Seat Heating Indicator, Right Rear Shock Absorber Actuator, Right Rear Stop/Park Lamp, Right Rear Suspension Position Sensor Trim Height (mm), Right Rear Turn Signal Lamp, Right Rear Turn Signal/Brake Lamp, Right Rear Turn Signal/Stop Lamp, Right Rear Window Motor, Right Rear Window Switch Command, Right Side Marker Lamp Command, Right Side Object Detection Indicator, Right Stop Lamp, Right Tail Lamp, Right Temperature Door Motor Direction, Right Temperature Door Position, Right Trailer Tail Lamp, Right Trailer Tow Turn/Stop Lamp, Right Trailer Turn Signal Lamp, Right Trailer Turn Signal/Stop Lamp Command, Right Turn Signal, RR Turn Signal, Run Crank Relay, Run/Start Power Mode Indicator, Seat Back Horizontal Movement, Seat Back Side Bolster Movement, Seat Belt Retractor Motor, Seat Cushion Front Vertical Movement, Seat Cushion Rear Vertical Movement, Seat Cushion Side Bolster Movement, Seat Horizontal Movement, Seat Lumbar Support Horizontal Movement, Seat Lumbar Support Vertical Movement, Security Indicator, Security Siren, Sensor Supply Voltage Relay, Sensor Supply Voltage, Shift Fork 1, Shift Fork 2, Shift Fork 3, Shift Fork 4, Shift Fork 5, Shift Lock Solenoid, Shift Solenoid 1, Shift Solenoid 2, Shift Solenoid Valve, Shift Transmission Gear, Shift Transmission, Shock Absorber Front Left, Shock Absorber Front Right, Shock Absorber Rear Left, Shock Absorber Rear Right, Skip Shift Controls, Spark Retard, Starter Drive, Starter Motor Relay, Starter Motor, Starter Pinion Solenoid Actuator Relay, Starter Relay, Steering Column Adjustment, Steering Column Telescope In, Steering Column Telescope Out, Steering Column Tilt Down, Steering Column Tilt Up, Stop Lamp, Stop/Start Select Switch Indicator, Supercharger Bypass Solenoid Valve, Supercharger Bypass Valve Position, Synchro Selector Valve Control System Cleaning Procedure, TAC Motor, TC Wastegate Solenoid, TCC Control Solenoid, TCC Pressure Control Solenoid Valve - Dynamic Test, TCC Pressure Control Solenoid Valve - Static Test, TCC Pressure Control Solenoid Valve, Test Compressor Pneumatic Operation, Throttle Actuator Control Valve Bank 2, Throttle Actuator Control Valve, Throttle Position Bank 2, Throttle Position, Throttle Sweep, Torque Converter Clutch, Traction Control Left Front Solenoid Valves, Traction Control Left Rear Solenoid Valves, Traction Control Right Front Solenoid Valves, Traction Control Right Rear Solenoid Valves, Trailer Backup Lamps, Trailer Brake Duty Cycle, Trailer Fog Lamps, Trailer Left Parking Lamp Command, Trailer Park Lamps, Trailer Parking Lamp Command, Trailer Right Parking Lamp Command, Trailer Stop Lamps, Transfer Case Clutch Engagement, Transfer Case Clutch Identifier, Transfer Case Range, Transmission Accumulator Solenoid Valve, Transmission Clutch Learn Status, Transmission Control Solenoid Valve 1 Current, Transmission Control Solenoid Valve 1, Transmission Control Solenoid Valve 10 Current, Transmission Control Solenoid Valve 10, Transmission Control Solenoid Valve 12 Current, Transmission Control Solenoid Valve 12, Transmission Control Solenoid Valve 13 Current, Transmission Control Solenoid Valve 13, Transmission Control Solenoid Valve 14 Current, Transmission Control Solenoid Valve 14, Transmission Control Solenoid Valve 15 Current, Transmission Control Solenoid Valve 15, Transmission Control Solenoid Valve 16 Current, Transmission Control Solenoid Valve 16, Transmission Control Solenoid Valve 2 Current, Transmission Control Solenoid Valve 2, Transmission Control Solenoid Valve 3 Current, Transmission Control Solenoid Valve 3, Transmission Control Solenoid Valve 4 Current, Transmission Control Solenoid Valve 4, Transmission Control Solenoid Valve 5 Current, Transmission Control Solenoid Valve 5, Transmission Control Solenoid Valve 6 Current, Transmission Control Solenoid Valve 6, Transmission Control Solenoid Valve 7 Current, Transmission Control Solenoid Valve 7,

Transmission Control Solenoid Valve 8 Current, Transmission Control Solenoid Valve 8, Transmission Control Solenoid Valve 9 Current, Transmission Control Solenoid Valve 9, Transmission Fluid Pressure Actuator, Transmission Line Pressure Control, Transmission Park Lock Command, Transmission Park Lock Control System Test, Transmission Park Value Lock Solenoid Actuator, Transmission Park Valve Lock Solenoid Actuator, Transport Mode, Treble, Trunk Lamp, Trunk Lid Unlatch, Turbo Charger / Super Charger Bypass Valve, Turbocharger 2 Wastegate, Turbocharger Bypass Solenoid Valve, Turbocharger Wastegate Actuator, Turbocharger Wastegate Position, Turbocharger/Supercharger 2 Bypass Valve, Turbocharger/Supercharger Boost Control Position, Update Air Temperature, Variable Exhaust Flow Control Valve, Vehicle Health Data Upload, Volume Control, Wait to Start Indicator, Wastegate Solenoid Duty Cycle, Window Lockout Switch Indicator, Windshield Washer Pump, Windshield Washer Relay, Windshield Wiper Motor Relay, Windshield Wiper Motor, Windshield Wiper Relay, Wiper Washer Motor

## New Coverage Details – USA Asian

### New Honda/Acura Coverage

- Added coverage for 42 new system applications

#### 19 new Adjustment type special tests:

Ambient Air Temperature Calculation Reset, Backup Battery Timer Reset, Brake Pedal Position Sensor Learn, Clear Short Range Radar Sensor Vehicle Position, HVAC Actuators Learn, HVAC Afterblow Configuration, Hybrid/Electric Vehicle Battery Contactor Open Reason History Reset, Hybrid/Electric Vehicle Battery DC Charging Disabled Reset, Hybrid/Electric Vehicle Battery Interface Control Module Over Temperature Reset, Hybrid/Electric Vehicle Battery Interface Control Module Voltage Sensor Circuits High - Low Reset, Hybrid/Electric Vehicle Range Reset, Hybrid/EV Battery Pack Charging Adaptive Learn Reset, Radio Favorites Reset, Rear Gate Driver Information Center Message Reset, Reset Teen Driver Key PIN, RVS Disable History Reset, Steering Wheel Angle Sensor Centering, System Isolation / Impact Sensor Fault - Hybrid/Electric Vehicle Battery System Reset, Vehicle Dynamic Sensor Offset Calibration

#### 97 new Actuation type special tests:

Accessory Circuit 1 Command, Accessory Circuit 2 Command, Accessory Circuit 3 Command, Accessory Circuit 4 Command, Active Grille Air Shutter, Air Conditioning Compressor System Test Request, Air Conditioning Condenser Refrigerant Flow Valve - External Command, Air Conditioning Condenser Refrigerant Flow Valve - Heater Command, Air Conditioning Refrigerant Evacuation and Service Fill Request, Audio Source Control, Backup Lamps, Balance, Bass, Brake System Boost Pressure Test, Center High Mounted Stop Lamp, Charge Port Door Actuator Position Command, Charge Port Light Command, Control Functions, Display Check, Drive Unit Park Control Actuator Command, Electric Air Conditioning Compressor Run-In, Electronic Transmission Range Selection Request, Equalize All Air Spring Pressures, Equalize Front Axle Spring Pressures, Equalize Rear Axle Spring Pressures, Exit Four Corner Air Suspension Service Control Mode, Fader Position Control, Fog Lamps, Front Suspension Position Sensor Trim Height, Hands-Free Sensor Lamp Command, Hybrid/Electric Vehicle Battery Pack Capacity Fast Learn, Hybrid/Electric Vehicle Service Coolant Fill Request, Info Display Dimming, Instrument Cluster, Lane Departure Switch LED, Left Daytime Running Lamp, Left Front Air Spring Deflate, Left Front Air Spring Inflate, Left Front Shock Absorber Actuator, Left Front Suspension Position Sensor Trim Height, Left Front Turn Signal Lamp, Left Front Window Switch Command, Left High Beam, Left Low Beam, Left Rear Air Spring Deflate, Left Rear Air Spring Inflate, Left Rear Shock Absorber

Actuator, Left Rear Suspension Position Sensor Trim Height (mm), Left Rear Turn Signal Lamp, Left Rear Turn Signal/Stop Lamp, Left Stop Lamp, Left Tail Lamp, Left Trailer Turn Signal/Stop Lamp Command, Left Turn Signal, Level Vehicle to Target Height, License Plate Lamps, Liftgate Open/Close, Low-Voltage Circuit Enable, Mid-Range, Parking Lamps, Proactive Alerts, Right Daytime Running Lamp, Right Front Air Spring Deflate, Right Front Air Spring Inflate, Right Front Shock Absorber Actuator, Right Front Suspension Position Sensor Trim Height, Right Front Turn Signal Lamp, Right High Beam, Right Low Beam, Right Rear Air Spring Deflate, Right Rear Air Spring Inflate, Right Rear Shock Absorber Actuator, Right Rear Suspension Position Sensor Trim Height (mm), Right Rear Turn Signal Lamp, Right Rear Turn Signal/Stop Lamp, Right Rear Window Switch Command, Right Stop Lamp, Right Tail Lamp, Right Trailer Turn Signal/Stop Lamp Command, Right Turn Signal, Seat Back Horizontal Movement, Seat Back Side Bolster Movement, Seat Cushion Front Vertical Movement, Seat Cushion Rear Vertical Movement, Seat Horizontal Movement, Seat Lumbar Support Horizontal Movement, Seat Lumbar Support Vertical Movement, Sensor Supply Voltage, Steering Column Adjustment, Trailer Backup Lamps, Trailer Left Parking Lamp Command, Trailer Park Lamps, Trailer Right Parking Lamp Command, Transport Mode, Treble, Windshield Washer Pump, Windshield Wiper Relay

## New Mitsubishi Coverage

- Added coverage for 45 new system applications

### 13 new Adjustment type special tests:

Calibration value reset, Control valve learning mode, CVT Oil Degradation Level, ECU Information, Emission Gas Mode, In-use performance tracking, Learned Value Reset, Learning, Service Reminder, Test, Timing chain maintenance, Transport Mode Setting, Turn Signal sound customization

### 106 new Actuation type special tests:

A/C Relay, ABS Warning Light, A-C Compressor Relay O, A-C Switch, AFS OFF Indicator, AHB Indicator, Air Conditioning Switch, Air Outlet C-O Damper, ASC-TCL Failure Indicator, ASC-TCL OFF Indicator, ASC-TCL OP. Indicator, ASG Indicator, ASG OFF Indicator, A-T Lock Up Open Request, Brake Indicator, BSW Buzzer, BSW Indicator, BSW ON-OFF Setting, Charge Indicator, Chassis No VIN Information, Chassis No./VIN Writing, Coding Information Copy, Condenser Fan, Cooling Fan O, Cruise Control Indicator, Display Output, Driver Seatbelt Indicator, Dynamic Brake Buzzer, ECO Indicator, Engine Malfunction IND., Engine Running Injector Kill Test, Engine switch(Control), Engine Switch(LED ON), Engine TCL Drive, EPB Switch Indicator, EPB Warning Light, ESS Test Mode, EVAP Emission Purge SOL Valve, EVAP Emission Ventilation SOL, EVAP Function Test, Evaporative Emission Purge Solenoid O, Evaporative Emission Ventilation Solenoid O, FCM Indicator, FCM OFF Indicator, FL Wheel ABS Drive, FL Wheel TCL Drive, FR Wheel ABS Drive, FR Wheel TCL Drive, Front Blower Fan, Front Fog Light Indicator, Fuel Gauge, Fuel Pump O, Fuel Pump, Full Release Control, Headlight Auto leveling, High Beam Indicator, Idle Up Request, Ignition Timing 5 BTDC, Indicator2, Injector Stop, In-Out Select Damper, Input Vehicle Speed, LDW Indicator: Standby Request, LDW Indicator: System Fail Req., LDW Indicator: TEMP. Fail Req., LDW Indicator: Warning Request, Leveling Actuator, Meter Illumination, Meter Indication (BSW Status), Meter Indication (RCTA Warning), Mirror Indicator, Mode Selection Damper, Oil Feeder Control Valve O, Out-Inside Air Selection Damper, PA. Seatbelt Indicator, Parking Brake Light, Passenger S Airbag OFF Indicator Lighting Request, Passenger S Airbag ON Indicator Lighting Request, Passenger S SRS OFF Light, Passenger S SRS ON Light, Positionlight Indicator, PTC Heater, PWM Radiator Fan, Radiator Fan High, Radiator Fan Low, RCTA Buzzer, Rear Defogger Switch, Rear Fan Step (Input Value), Rear Fog Light Indicator, Rear PTC Heater, RL Wheel ABS Drive, RL Wheel TCL Drive, RR Wheel ABS Drive, RR Wheel TCL Drive,

Speedometer, SRS Indicator, SRS Warning Light Lighting Request, SRS Warning Light, Stoplight:ON, Tachometer, Tire Pressure Indicator, TSR Display Request, Turn Signal Indicator(LH), Turn Signal Indicator(RH), VVT Oil Control Valve, Wastegate Solenoid Valve

## New Nissan Coverage

### 1 new Adjustment type special tests:

Confirm CVTF Deterioration

## New Subaru Coverage

### 235 new Adjustment type special tests:

2 Steps Fade Out Control Function, 3rd Center Seatbelt Warning Buzzer Function, 3rd Left Seatbelt Warning Buzzer Function, 3rd Right Seatbelt Warning Buzzer Function, 4th Center Seatbelt Warning Buzzer Function, 4th Left Seatbelt Warning Buzzer Function, 4th Right Seatbelt Warning Buzzer Function, aCol Function, Actuator Initialization, Advanced Park Parallel Parking Control Area, Advanced Park Perpendicular Parking Control Area, AFS Function, AHS Function, AHS Operation Vehicle Speed Setting (Pattern1), AHS Operation Vehicle Speed Setting (Pattern2), AHS Operation Vehicle Speed Setting (Pattern3), Air Bleeding, All Readiness, AT learning mode, Audio Information Display Function, Auto Door Lock Pattern Setting (Speed), Auto Entry Cancel 2 Setting, Auto Entry Cancel Setting, Automatic Door Lock Function, Automatic Door Lock Setting, Automatic Door Unlock Function when D-Door Open, Automatic Door Unlock Setting, Automatic Light Off Timing Setting, Automatic Mirror Fold Setting, Backup Battery Replacement Reset, Battery Status Info Update, Body Control with Torque Demand, Brake Line Air Bleeding, Brightness Level Adjust (Canceling), Brightness Level Adjust (Lowering), Camera Caution Display Settings, Camera Guide Line Settings, Clear Abnormal Operation History, Clear AT Learning Value, Clearance Warning Buzzer Volume, Compressor Auto Mode, Customize Setting Initialization, Daytime Running Light Function, DCM Operation History, Diag Recorder Settings, Door Auto Lock Timer Setting, Door Handle Lock Button, Door Key Related Close, Door Key Related Open, Door Key Related Operation, Door Lock Answerback Sound Setting, Door Lock Indicator Function, Door Lock Indicator Pattern Setting (IG OFF), Door Lock Indicator Pattern Setting (IG ON), Door Open SW Operation Adjust, Door Unlock Sensor Touch Time Adjust, Driver Seat Distance Adjust when Get Off, Driver Seat Lift Up Distance Adjust when Get Off, Driver Seatbelt Warning Buzzer Function, DRL Function, ECO Drive Indicator Zone Display Function (Meter), ECO Drive Indicator Zone Display Function, Electronic Swivel Function, Entry Unlock Twice Function, EPB Initialize, EV Mode Cruising Range Reset, Extended Headlight Lighting, Exterior Lights Lighting Timer Setting, Exterior Lights ON Function, Exterior Lights ON when Approached Function, Exterior Lights ON when Door Opened Function, Exterior Lights ON when Door Unlocked Function, Flasher Sound Volume Adjust, Foot/DEF Auto Mode, Foot/Def Automatic Fan Speed Increase Function, Forced Actuator Refresh, Forget to Turn IG OFF Alarm Function, Fresh/Recircle Air Door Auto Mode, Front Center Seatbelt Warning Buzzer Function, Front SW Auto Operation, Glass Hatch Open Function, Hazard Answer Back Function, Headlight ON in Conjunction with Wiper Function, Height Sensor Initialization, High Voltage Fuse Accumulated Load History Reset, Idle Speed Adjustment, Ignition Available Area Setting (Back Door Type), Ignition Available Area Setting (Trunk Lid Type), Initial Button Setting, Initial Security Setting, Initialization, Interior Footwell Lights Function, Interior Illumination Light 2 Function, Interior Illumination Light 3 Function, Interior Lights Lighting Timer Setting, Interior Lights ON Function, Intrusion Sensor 1 Sensitivity Level Adjust, Intrusion Sensor 2 Sensitivity Level Adjust, Intrusion Sensor Reduction in Sensitivity Setting, Intrusion Sensor Sensitivity Level (Window Open), Intrusion Sensor Sound Detection Function, IPA Obstacle Avoidance Distance, IPA Parallel Parking Control Area, IPA Perpendicular Parking Control Area, Key Left in Vehicle Alarm Function, Key Low Battery Warning Function, Kick Sensor Operation

Function with ACC ON, Lane Change Flashing Times Adjust, Light Auto OFF Delay Setting, Light Blink Clearance Lights at Unlock Function, Light Control Glass Brightness Memory Function, Light Control Glass Voice Control Function, Light up Clearance Lights at Door Unlock Function, Lock Indicator Lighting Time Adjust, Lost Communication Time Initialization, Master Caution Display Function, Memory Call Function, Memory Initialization, Mode/All Flow, Mode/Heat III, Mode/Vent II, Multi Weather Light Function, ODO Display Time After IG OFF Adjust, Open Door Warning Function, Operation History Clear, P/W Operation Buzzer W/ Transmit Function, Panic Function, Park Wait Time Adjust, Passenger Seatbelt Warning Buzzer Function, PCS Cooperate Function, PKSA (O) Auto Mute Function, PKSA (O) Forward Detection Image Display, PKSA (O) Image Display when Away from the Obstacle, PKSA (O) Judgment of Obstacle on Course, PKSA (O) Switch State Stored, PKSB (O) Function, PKSB (O) Target Stopping Distance, PKSB (P) Function, PKSB (P) Target Stopping Distance, PKSB (P) Width Adjustment (Y Axis), PKSB (V) Function, PKSB (V) Operation Timing Setting, PKSB (V) Sensitivity, PKSB Switch State Stored, Power Saving Wait Time(Out Of Entry Range), Power Steering ECU Initial Setting, Power Window Voice Control Function, Projection Adjustment (Distortion), Projection Adjustment (Keystone), Projection Adjustment (Tilt), Proposal Service Frequency Adjust, Proposal Service Volume Adjust, Proposal Services Function, R Wiper Stop Function at Back Door/Trunk Lid Open, RAB Operation Record Data, Rain Mode, Rear blower fan level, Rear Center Seatbelt Warning Buzzer Function, Rear Left Seatbelt Warning Buzzer Function, Rear Right Seatbelt Warning Buzzer Function, Rear Seatbelt Warning Buzzer Function, Rear Sunshade linked with Shift Lever R Funct, Rear SW Auto Operation, Rear Wiper Washer Function, Rear Wiper with Reverse Setting, Record Clear, Release Max A/C By Mode Sw, Remote Door Lock Setting, Reset Memory, Response Time Adjust, Reverse Buzzer Setting, Reverse Coupled Actuation Mirror Angle Setting, Seat Position Voice Control Function, Seat position/Tilt Telesco memory recall setting, Security Control with Mechanism Key Function, Sensitivity Adjust, Set Temperature Shift, Shift Lever R Signal Delay Time Adjust, Shift Linked Automatic Door Lock Function, Shift Linked Automatic Door Unlock Function, Simple Roughness Monitor, Slide Roof Open Warning Function, Slide Roof Voice Control Function, Speed Limit Display Function, Speed Linked Automatic Door Lock Function, Speed Linked Automatic Door Unlock Function, Start Indicator Function, Start Off Mode, Start Switch Light Function, System Initialization, Tail Remind Buzzer Function, Telematics Microphone Volume Adjust, Telematics Speaker Volume Adjust, Tire Circumference Setting, Tire Pressure Sensor Registration, Torque Sensor Adjustment, Touch Activation Over Threshold, Town Mode, Traffic Sign Recognition Animation Function, Trunk Lid Linked with Door Lock Function, Trunk Lid Open Mode Function, Trunk Lid Operation by Electrical Key Function, Trunk Lid Operation by Entry Function, Tunnel Beam Function, Turn by Turn Animation Function, Ultrasonic Sensor (Front Center) Detection Range, Ultrasonic Sensor (Front Corner) Detection Range, Ultrasonic Sensor (Rear Center) Detection Range, Ultrasonic Sensor (Rear Corner) Detection Range, Ultrasonic Sensor (Side) Alarm Detection Range, Ultrasonic Sensor (Side) Alarm Function, Ultrasonic Sensor Actuation (Shift N), Unlock Key Twice Function, Variable compressor break-in drive, Variable Flow Change Sol Duty Setting, VIN Entry, Voice Guidance Function, Walk Away Lock after Getting Out Func (Closing), Walk Away Lock after Getting Out Function, Warning by Horn Function, Window Open Warning Function, Wiper Specification Switch, Wiper Voice Control Function, Wireless Backdoor Open Operation Adjust, Wireless Buzzer Response Function, Wireless Buzzer Volume Setting, Wireless Control Function, Wireless Glass Hatch Open Operation Adjust, Wireless Key Related Close, Wireless Key Related Open, Wireless Key Related Operation, Wireless Lock Function with Doors Open, Wireless Trunk Lid Open Operation Adjust, Wireless Unlock Twice Function, Zero Point Calibration

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

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2nd START Indicator, 4LO Indicator, 4WD AUTO Indicator, 4WD Indicator (Green), 4WD Indicator (Yellow), 4WD Lock Indicator, 4WD Warning, A/C Change Setting, A/C Compressor Relay, A/C Relay, A/T Oil Temperature, ABS Sequence Control Mode, ABS Warning, Activate SL1 Solenoid, Activate SL2 Solenoid, Activate SL3 Solenoid, Activate SL4 Solenoid, Activate SLT Solenoid, Activate the (Inverter) Water Pump, Activate the Charger Cooling Fan, Activate The Solenoid (SC1), Activate The Solenoid (SC2), Active Grill Shutter Test, Active TRC Indicator, ACTIVE TRC Warning, Advanced Parking Guidance Indicator, AFS Indicator (Malfunction) Display, AFS OFF Indicator, AHS LH High Beam, AHS RH High Beam, Air Mix Door Actuator Target Open (Driver Side), Air Mix Door Actuator Target Open (Passenger Side), Air Suspension Indicator (HI), Air Suspension Indicator (LO), Air Suspension Indicator (N), Airbag Warning, Airmix Dr Act Trgt Open Angle (Drivers), Airmix Dr Act Trgt Open Angle (Pass), All Indicator, All Lamps, All seat UNLOCK output, All seats door warning, Alternator control mode, AM Seek Up/Down, Ambient Air Temperature setting, Ambient Temperature, ASL Indicator, ASL Warning, AST Indicator, 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, Auto Air Conditioner Indicator, Auto Leveling Headlamp Indicator, Auto LSD Indicator, Auto Power OFF Cancel, AUTO switch mode setting, Auto Switch, Automatic High Beam Indicator (Green), Automatic High Beam Indicator (Yellow), Automatic High Beam Switch Light, Auxiliary Battery Warning, AVS Comfort Indicator, AVS Sports Indicator, AWD Linear Solenoid, AWD Mode Select, AWD Solenoid, AWD, Back Door Sensor Power Supply, Beep, Blower Fan Level Setting, Brake Hold Indicator, Brake Lamp Lighting Operation, Brake Maintenance Mode, Brake Override Warning, Brake Warning, Brightness, BSM Indicator, BSM OFF Indicator, BSM 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), Cancel Communication Function Pausing, Canister Purge Control Solenoid, Cargo Light, Center DIFF LOCK Indicator, Charge Indicator, Charge Warning (Red), Charge Warning, Charge, Check E/G warning, Check Engine Warning, Check Mode, Clearance Light (+ Front Side Marker Light), CNG Mode Indicator, Collision Door Lock Release, Color Check, Color Check: Black, Color Check: Blue, Color Check: Cross Talking, Color Check: Gradation, Color Check: Green, Color Check: Red, Color Check: White, Color Test Screen (Adjustment), Color Test Screen (Black), Color Test Screen (Blue), Color Test Screen (Color Bars), Color Test Screen (Green), Color Test Screen (Red), Color Test Screen (White), Compression monitor, Compression Test, Connect The TC And TE1, Control the Motor/Generator Cooling Oil Pump, Control the Transmission Oil Pump, Coolant Circulation Valve Control, Coolant Cool Warning Lamp, Coolant Hot Warning Lamp, Cornering Light-Front Side Illuminate Light (Dim), Cornering Light-Front Side Illuminate Light, CRAWL Indicator, CRAWL Warning, Cruise Indicator (Yellow), Cruise Indicator, D range display, Daytime Running Light, DCM Firmware Update, D-Door Unlock, Diag Recorder Data delete, Diag Recorder Data output, Diesel Particulate Filter Warning, Digital Audio Broadcast Antenna Check, Digital TV check, Dimmer Signal, Door Lock, Door Mirror Indicator Active Test, Door Open Warning, Door Unlock, Down range display, Downhill Assist Control Indicator, Downhill Assist Control Warning, Drift From The Lane Indicator, Drift From The Lane Warning, Driver Door, Driver Seat Belt Reminder, Driver Seat Sensor Power Supply, Driver Side Seat Belt Warning, Dual-Range LO Indicator, E/G remaining oil warning, ECB Main Relay, ECB Solenoid (SLA), ECB Solenoid (SLR), ECB Utility, ECB Warning, ECO Mode Indicator, ECONO Indicator, ECT PWR Indicator, ECT SNOW Indicator, EGR Control, EGR Valve Control (Duty), ELCM pump, ELCM switching valve, Emergency Call Cancellation, Emergency Exit Warning, EPB Active, EPB Auto OFF Indicator, EPB Control Switch, EPB Hill Hold, EPS Indicator

Lamp, EPS Warning, EV Drive Indicator, EV Mode Indicator, Exhaust Control Valve Control, EXO, Extended Illumination 1, Extended Illumination 2, EYESIGHT failure, Fixed Idle Ignition Timing, FM Seek Up/Down, FR Clutch Solenoid, Fresh/Rec Air Dr Act Trgt Open Angle, Front Buzzer, Front Fog Lamp Indicator, Front Fog Light, Front Footwell Lights, Front Sliding Sunshade, Front Washer Relay, Front Wiper Hi Operation, Front Wiper Lo Operation, Fuel Cap Reminder Warning, Fuel efficiency gauge (ECO gauge) 1/2 scale command, Fuel efficiency gauge (ECO gauge) 1/4 scale command, Fuel efficiency gauge (ECO gauge) 3/4 scale command, Fuel efficiency gauge (ECO gauge) MAX scale command, Fuel efficiency gauge (ECO gauge) MIN scale command, Fuel Filter Warning, Fuel Gauge Indicator, Fuel Gauge Operation (1-2), Fuel Gauge Operation (1-4), Fuel Gauge Operation (3-4), Fuel Gauge Operation (Empty), Fuel Gauge Operation (Full), Fuel Gauge Operation (Sender E), Fuel Gauge Operation (Sender F), Fuel Gauge Operation (Warning), Fuel Gauge Operation For CNG (1-2), Fuel Gauge Operation For CNG (1-4), Fuel Gauge Operation For CNG (3-4), Fuel Gauge Operation For CNG (Empty), Fuel Gauge Operation For CNG (Full), Fuel Gauge Operation For CNG (Sender E), Fuel Gauge Operation For CNG (Sender F), Fuel Gauge Operation For CNG (Warning), Fuel Lid Lock Relay, Fuel Pump OFF, Fuel Pump Relay, Fuel sender E-point command, Fuel sender F-point command, Fuel Warning (CNG), Fuel Warning Lamp, Glass Hatch Open, GLOW Warning, Go To Service Warning, Green Indicator, HBA OFF/FAIL, HBA, Head Up Display Indicator, Headlamp Indicator, Headlight Leveling Indicator Display, Headlight Leveling Initialize Incomplete Display, Headlight Relay-Light Power Supply Relay, Headlight System Malfunction Display, Heater core temperature setting, Heater Water Temperature Setting, Height High Indicator, Height High Warning, HID auto leveler, High Beam Headlight, High Beam Indicator, Hill start assist OFF/failure indicator, Hold Indicator, Horn Output, HV System Indicator (0%), HV System Indicator (100%), HV System Indicator (200%), HV System Indicator (300%), HV System Indicator (400%), HV System Indicator (-50%), HV System Indicator (MAX), HV System Indicator (MIN), HV Unit Hot Warning, 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), Hybrid Battery Charge, Hybrid Battery Heater Relay, Hybrid System Warning, Hydrogen Leak Warning, ICS OFF Warning, IG OFF P-W Control Permission Output, Illuminated Entry System, Illumination Lights Test, Immobilizer Indicator, Immobilizer, iMT Indicator (Green), iMT Indicator (Yellow), Injection Quantity Control, Injection Stop Mode (Injector 1), Injection Stop Mode (Injector 2), Injection Stop Mode (Injector 3), Injection Stop Mode (Injector 4), Injection Stop Mode (Injector 5), Injection Stop Mode (Injector 6), Inside Luggage Tuner Power Supply, Inspection Mode, INTUITIVE P-A LCD Indicator, INTUITIVE P-A LCD OFF Indicator, In-Vehicle Air Temperature Setting, KDSS Warning, Key Cylinder Illumination, Keyless Buzzer, L range display, LANE OFF, LDA Indicator (White), LDA Indicator, LDA Steering Control Indicator, LDA Warning, LED Headlamp Warning, LED LO beam, LED Switch Lighting Test, Left LDA Indicator, Left LDA Warning, Left Steering Responsive Headlight, Left Turn Signal Indicator, Light Control Glass Relay, Light Control Switch (DOWN), Light Control Switch (Single), Light Control Switch (UP), Limited Power Indicator, Line Solenoid, Lithium Battery Check Indicator, Lithium Battery Hot Indicator, Load Specification Information, lock actual. LOCK output, Lock-Up Duty Solenoid, Low Beam, Low Fuel Warning Indication, LP - EGR Valve Control, LPG Indicator, Luggage Mode Indicator (Yellow), Luggage Mode Indicator, Maintenance Warning, Master Warning, Meter 1/2 scale command, Meter 1/4 scale command, Meter 3/4 scale command, Meter Day Mode Switch, Meter Display (0), Meter Display (1), Meter Display (2), Meter Display (3), Meter Display (4), Meter Display (5), Meter Display (6), Meter Display (7), Meter Display (8), Meter Display (9), Meter Display (All), Meter E scale command, Meter F-scale command, Mirror Fold Signal, Mirror Return Signal, MMT E Mode Warning, Mode Door Actuator Opening Angle Target, Motor Relay, Multi Display All (White), Multi Display Default Screen, Multi Display Select Switch, Multi Switch (Back), Multi Switch (Down), Multi Switch (Enter), Multi Switch (Left), Multi Switch

(Right), Multi Switch (Top), Multi Switch (Up), N range display, Navi CVT Indicator, Night Brightness Check, Night View Indicator, No-key warning, Noon Brightness Check, O-D OFF Indicator, Odometer numerical device display 0, Odometer numerical device display 1, Odometer numerical device display 2, Odometer numerical device display 3, Odometer numerical device display 4, Odometer numerical device display 6, Odometer numerical device display 7, Odometer numerical device display 8, Odometer numerical device display 9, ODO-TRIP Change Switch, OFF Road Guidance Indicator, OFF Road Guidance Warning, Oil Level Warning, Oil Pressure Meter Operation (1-2), Oil Pressure Meter Operation (1-4), Oil Pressure Meter Operation (3-4), Oil Pressure Meter Operation (HIGH), Oil Pressure Meter Operation (LOW), Oil Pressure Warning, Oil Pressure, Outer Mirror Reverse Light, Outside Mirror Footwell Lights, Over Speed Indicator, Overhead Tuner Power Supply, P Range Display, P Range Indicator, Panel Light, Park Warning, Part Number, Passenger Door, Passenger Seat Sensor Power Supply, Passenger Side Seat Belt Warning, P-CR OFF, PCS OFF Warning, PCS Warning, Pedestrian Protection Warning, Position light, Power Meter (100%), Power Meter (-100%), Power Windows Tests, PPS Warning, Primary Down Solenoid, Primary Up Solenoid, Quantity of Sunload Setting, R range display, Radar Cruise Indicator (Yellow), Radar Cruise Indicator, Radiator Fan Relay, Range Display Test, RCD OFF Indicator, RCTA Indicator, RCTA OFF Indicator, Ready Indicator, Rear Buzzer, Rear Defogger, Rear DIFF LOCK Indicator, Rear Differential Inspection Mode, Rear Driver Side Sensor Power Supply, Rear Fog Lamp Indicator, Rear Fog Light, Rear Inner Wheel Control Indicator, Rear Inner Wheel Control Warning, Rear Inverter Cooling Fan, Rear Left Door, Rear Light Indicator, Rear Passenger Side Sensor Power Supply, Rear Right Door, Rear Seat Belt Warning, Rear Washer Relay, Rear Welcome Light, Rear Wiper Operation, Red Indicator, Reductant Warning, Relay for Interior Light Auto Cut Function, Reverse Signal, Ride Mode Indicator, Right LDA Indicator, Right LDA Warning, Right Steering Responsive Headlight, Right Turn Signal Indicator, ROM ID, Secondary Solenoid Current, Security Horn, Security Indicator, Self Power Siren, SET Indicator, Shift Indicator Lamp, Shift Lock Solenoid, Shift-By-Wire Warning, Signal Check, SIL Indicator (Down), SIL Indicator (Up), Slide Roof, Slip Warning, Smart System Indicator, Smart System Warning, SOC Gauge (1-2), SOC Gauge (1-4), SOC Gauge (3-4), SOC Gauge (MAX), SOC Gauge (MIN), SOC Warning, Software Information, Software version, Solenoid Relay, Sounder Output, Speaker Output Check(Harman/Kardon Audio Speakers), Speaker Output Check, Speaker Output Volume Adjustment, Speed Signal Input (0), Speed Signal Input (120), Speed Signal Input (160), Speed Signal Input (200), Speed Signal Input (240), Speed Signal Input (280), Speed Signal Input (320), Speed Signal Input (360), Speed Signal Input (40), Speed Signal Input (400), Speed Signal Input (80), Speedometer Operation (0km-H,0mph), Speedometer Operation (120km-H,120mph), Speedometer Operation (160km-H,160mph), 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), Speedometer test, Sport Indicator (CVT Sport), SRH OFF, SRVD OFF, SRVD, Start SW Light Power Supply, Steering Heater Indicator (Yellow), Stop And Start OFF Indicator, Stop And Start ON Indicator, Stop Lamp Relay, Sub Fuel Gauge Operation (1-2), Sub Fuel Gauge Operation (1-4), Sub Fuel Gauge Operation (3-4), Sub Fuel Gauge Operation (Empty), Sub Fuel Gauge Operation (Full), Sub Fuel Gauge Operation (Sender E), Sub Fuel Gauge Operation (Sender F), Tachometer Operation (0rpm), Tachometer Operation (10000rpm), Tachometer Operation (2000rpm), Tachometer Operation (3000rpm), Tachometer Operation (4000rpm), Tachometer Operation (5000rpm), Tachometer Operation (6000rpm), Tachometer Operation (7000rpm), Tachometer Operation (8000rpm), Tachometer Operation (9000rpm), Tachometer test, Tailgate Open, Taillamp Indicator, Taillight-Clearance Light, Temp Gauge: C-Lock, Temp Gauge: C-Point, Temp Gauge: Dial 1 Instructions, Temp Gauge: Dial 2 Instructions, Temp Gauge: H-Lock, Temp Gauge: H-Point, Temp Gauge: Intermediate Stability

Indication, Temp Gauge: Z-Point, Temporary Vehicle Start Up, Timer Switch (00), Timer Switch (H), Timer Switch (M), Timer Switch (Single), Timing Belt Warning, Tire Pressure Warning System Indicator, Tow Haul Indicator, TPMS Warning Light, Trailer Reverse Assistant Light, Trip meter numerical device display 0, Trip meter numerical device display 1, Trip meter numerical device display 2, Trip meter numerical device display 3, Trip meter numerical device display 4, Trip meter numerical device display 5, Trip meter numerical device display 6, Trip meter numerical device display 7, Trip meter numerical device display 8, Trip meter numerical device display 9, Trip Reset Switch, Trunk open, Trunk Unlock Actuator, Turn Left Signal, Turn Right Signal, Up range display, VDC Function Check Mode, VDC OFF indicator, VDC operation/failure indicator, Vehicle Approach Warning OFF Indicator, Vehicle Horn, Vehicle Proximity Notification System Warning, Vehicle Stop Warning, VGRS Warning, Volt Meter Operation (0V), Volt Meter Operation (12V), Volt Meter Operation (15V), Volt Meter Operation (18V), Volt Meter Operation (3V), Volt Meter Operation (6V), Volt Meter Operation (9V), VSC OFF Indicator, VSC TRC Indicator, Warning Lamp, Washer Fluid Low Indicator, Washer Nozzle Heater, Washer Warning, Water Level Warning, Water temperature (COOL) indicator, Water temperature (HOT) warning, Water Temperature Meter Operation (110C,230F), Water Temperature Meter Operation (120C,248F), Water Temperature Meter Operation (127C,260F), Water Temperature Meter Operation (50C,122F), Water Temperature Meter Operation (60C,140F), Water Temperature Meter Operation (70C,158F), Water Temperature Meter Operation (80C,176F), Water Temperature Meter Operation (Middle), Wiper Power Relay, Wireless Buzzer

## New Coverage Details – USA European

### New Volkswagen Coverage

#### 6 new Adjustment type special tests:

Quickstart - Reset Of Adaption Values, Replace Control Unit: Transfer Configuration, Reset Frequency Counter, Reset of Adjustment/Calibration Values, SWaP Function Crypt Data ID, Transfer Configuration

#### 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

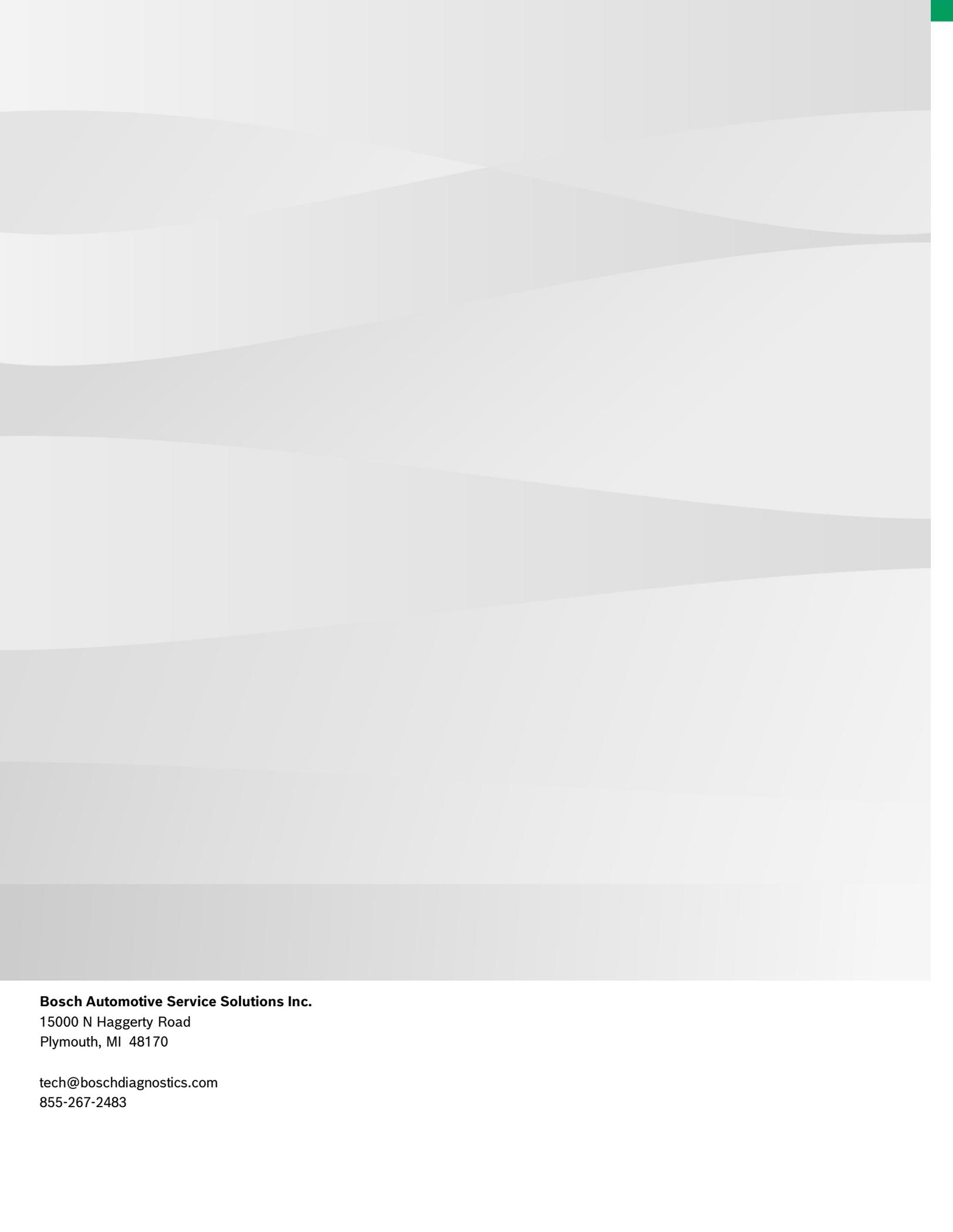
Request Control Value 1, Warning Lamp For Adaptive Light Test Control Value, Warning Lamp, Windscreen Heater For Camera Control Value, Windscreen Heater For Camera, Windscreen Heater For Lane Departure Warning, Yellow Indicator Lamp For Lane Departure Warning Control Value, Yellow Indicator Lamp For Lane Departure Warning

## New Volvo Coverage

### 3 new Actuation type special tests:

Heated Windshield Camera Area, LED For Heads-Up Display, LED For Head-Up Display

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