

Version 5.9

Release Notes Contents

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

Overview

Version 5.9 update includes model year **2023** vehicle coverage and additional **ADAS** calibrations.

Over 4,584 new special tests & 911 new system applications included in this update.

Software and coverage feature details provided in these release notes.

New Coverage Highlights (Coverage details start on Page 2)

MY2023 Additions:

- **Audi** – A4 allroad, A4 Quattro, A5 Quattro, A5 Sportback, A6 allroad, A6 Quattro, Q5, Q7, Q8, RS Q8, RS6 Avant, RS7 Sportback, S4, S6, S7 Sportback, SQ5, SQ7
- **Ford** – Ranger, Transit Connect, Transit-150, Transit-250, Transit-350, Transit-350 HD
- **Genesis** – Electrified G80, G60, G80, G90, GV60, GV70, GV80
- **Lincoln** – Aviator, Nautilus
- **Special Test Additions** – multiple brands
- **ADAS Coverage:**
 - **FCA** – All models except Hornet and ProMaster
 - **GM** – All models except Hummer EV and LYRIQ
 - **Audi/Volkswagen** – 23 models added
 - **Ford** – 18 models added
 - **Fiat** – 500X
 - **Mazda** – 5 models added
 - **Mitsubishi** – 3 models added
 - **Nissan/Infiniti** – 13 models added
 - **Toyota/Lexus** – 15 models added

New Coverage – USA Domestic

Chrysler/Dodge/Jeep/Ram Coverage

194 new Adjustment type special tests:

ABS Bleed Brakes, ABS Initialization, ABS Unit Bleed, Active Grill Shutter Replaced, Actuator Calibration, AMP Non ANC Qualifier, Auto High Beam Demo Mode Test, Back Lighting, Bleed Brakes, Brake Fluid Replacement/Brake Fluid Reservoir Substitution, Brake Pedal Calibration, Brake Pedal Learn, Calibrate Tandem Master Cylinder Sensor, Caliper EPB substitution, CAM Crank Relearn Routine, Change Country Code, Channel Output Test, Check PCM VIN, Clear DEF Pump Learned Offset Values, Clear Engine Auto Restart Crank Counter, Clear Learning Value, Clear Misfire TLC, Clear Self-Learning Data, Clear Stored Accumulated Fuel Mass, Clear TPM Sensor Rolls Test Results, Clear TPM Sensor Warnings, Clear Variable Line Pressure Counters, Closed Coupled Replacement, Clutch Pedal Learn, Configure License Plate Size, Coolant Three Way Valve Replaced, Coolant Three Way Valve, Diesel Particulate Filter Regeneration, DPF Pressure Sensor Reset, DPF Regen, DPF Replacement, Driving Regeneration Request, DTCM Replacement, Dual Alternator Enable/Disable, Dual Fuel Tank Enable / Disable, ECU Replacement With Value Transfer, EGR Coolant Regeneration, EGR Low Pressure Learn, EGR System Test, EGS Initialization, Electric Park Brake Management, Emissions Rolls Test Mode, Enable / Disable Vehicle Features, Enable Brake Pedal, Enable/Disable Seatbelt Minder Chime, Enable/Disable The Roll Bench Mode, Engine Idle Shutdown Feature Enable/Disable, EPB Assembly Check, 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 Brake Disc Substitution, Front Caliper Substitution, GSE Injector Adaptation, Headlamp Leveling, Heated Seat NTC Validation, HVAC Actuator Calibration Test, HVAC FGA Self Learning Motors Test, Hydraulic Prove Out Test, Idle Shutdown Timer Adjustment, Initialize ABS, Initialize Cluster Configuration w/o Odometer Affect, Initialize CVT, Initialize EPS, Initialize ORC, Injector Quantity Adjustment, Intake Phaser 1 Cleaning, Intake Phaser 2 Cleaning, IPC Replacement, Key FOB Identification, KeySense PIN Reset, Learn ETC, Light Rain Sensor Calibration, Longitudinal And Lateral Sensor Calibration, 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, OCM System Verification Test, Oil Change Light Reset, Oil Change Monitor Type, Oil Life Restore, Oil Service Reset, Original VIN Lock, Overboost counter reset, Phonic Wheel Ttooth Learning Reset, Power Take - Off Unit Replacement, Pressure Sensor Calibration, Production State, Program Engine Serial Number, Program Tire Sensor Identifications, Program Tire Size, Program Variant Coding, Proxi Configuration Alignment, Proxi Configuration, PTO RPM Adjustment, PTO Settings, Purge fuel circuit reset, Quick Learn, Quicklearn 62TE, Quicklearn Non RFE, Quicklearn RFE, RAM Active Air Box Calibration, Range Position Sensor Reset, RDU Replacement, Rear Brake Disc Substitution(Continental), Remote Start Temporary Disable, Reset Adaptive After Oil Change, Reset Adaptive Data, Reset Adaptive Memory, Reset Adaptive Values, Reset Adaptives After Block Change, Reset After Replacement Of Lambda Sensor, Reset Air-Fuel Adaptives, Reset Angle Offset, Reset Camshaft Adaptive, Reset Camshaft Adaptives, Reset ECU, Reset Enhanced Automatic Oil Change Indicator, Reset Error Free Operation Time to 40 Hours, Reset H2O Lamp, Reset Injector Compensation Values, 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 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, Seat Calibration, Sensor

Wiring Test, Service Procedures, Set Max Cruise Speed, Set Max Vehicle Speed, Settling Group Caliper and Brake Pads, Snorkel Output Test, Stationary Desoot (DPF Regen), Steering Angle Calibration, Store Learned TCU Adaptives, TCC Break In, TCM Reset Learned Adaptives Routine, Throttle Body Self-Learn Activation, Tip Start Temporary Disable, Tire Pressure Sensor Registration, TLC Learn, TPM Pressure Update to Placard Value, TPMS Calibration, Trailer Hook Presence Disabling, Trailer Hook Presence Enabling, Turbo Actuator Pre-Align / Self Calibrate, Turbocharger adaptive parameters reset, Turn off Gain Mode Override, Update Front and Rear Axle Nominal Tire Pressure Values, Update Pressure Thresholds, Valve Body Solenoid Learn, Valve Variator Actuator (VVA) freeze wrong request reset, VCM Adaptive Parameter Reset After Block Change, VCM Adaptive Parameter Reset After Oil Change, VGT Learn, VGT Sector Gear Hysteresis Test, View/Reset Duty Cycle Maps, VIN Lock, VVL Cam Crank Relearn, Write Pinion Factor, Write VIN

1865 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, 2WD Rolls Mode, 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 Request, A/C Select, A/C, ABS (Anti-lock Brake System) safety indication, ABS fault Lamp, ABS Lamp, ABS Light, ABS Safety indication, ABS Safety lamp, 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, Activate Driver and Passenger Head Restraints, Activate Fuel Lift Pump, 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, Actuator Test For SCR Device Relay, Actuator Test For Scrdevrly, Actuator Test Injector, Actuator Test Inverse Pump, Actuator Test Of Urea Back Flow Pump Actuator, Actuator Test Pump, Actuator Test Tank Heater, Actuator Test Tube Heater, Adjustable Pedal Disable Relay, Aftertreatment System Performance Test, Air Bag Fail, Air Bag Lamp, Air Bag Light, Air Bag, Air Condition Relay Control, Air Condition, Air Conditioner Relay Command, Air Dam Test, Air Defrost Motor Distribution (Left side), Air Defrost Motor Distribution (Right side), Air Mix Motor, Air Mode Motor, Air Rear Motor Distribution, Air Vent - Floor Motor Distribution (Left side), Air Vent - Floor Motor Distribution (Right side), 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 Stop Lights W-Combined Rear Lighting, All Stop Lights W-O Combined Rear Lighting, All Stop Lights, Alternator Current Limit, Alternator Field Control State, Alternator Field Duty Cycle, Alternator Field Duty-Cycle, Alternator Output Voltage Setpoint, Alternator Test, Alternator Voltage Set Point Value, Ambient dimming command, Ambient Dimming, Ambient Illumination; Interior, Ambient Light Control, Ambient Light, 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, ASR Button lamp, ASR-ESP Safety indication, ASR-ESP Safety Lamp, Assist Call Button Green LED, Assist Call Button Red LED, Assist Call Green Day PWM, Assist Call Green LED Control PWM, Assist Call Green Night PWM, Assist Call Red Day PWM, Assist Call Red LED Control PWM, Assist Call Red Night PWM, Audio Measure AC and DC, Audio Routing, Audio Test For Subwoofer Specific, Audio Test, Audio Video Signal Detection, Audio Volume (Current Source), Audio Volume (current source), Audio Volume (ENT), Audio Volume (INFO 1), Audio Volume (INFO 2), Audio Volume (SIG), 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 Functions Activation, 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, 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 Level Settings, Balance Settings, Bargraph, Bass Level Settings, Bass Settings, Battery Bad (Red), 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, Bed Lamp, Blower Motor Speed, Blower Motor, Blue Cooled Seat Indicators, Blue Heated Seat Indicators, Blue Lights, Blue Temperature Bar, Boost Low Pressure Actuator, Boost Pressure Actuator, Boost Pressure, Both Headlamps Max High Position, Both Headlamps Max Low Position, 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 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, 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, Button LEDs, Button symbol Back-Light PWM Duty, 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, Calibration Sensor, Cargo Lamp, Cargo Light Indicator, Cargo Light, Catalyst Efficiency Test, CEGR H-Bridge Valve Duty Cycle, 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 Lock Motor, Charge Port Un-Lock Motor, 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 Output, Cold Start Aid Driver 1, Comfort Closing And Opening, Comfort ClosingOpening, Comfort Enable, Command Key Unlock, Command Shift Lock, Compressed Natural Gas, Compression Test, Compressor Current, Control All Solenoids, Control chime, Convenience/Reading Lamp, Convenience-Reading Lamp, Coolant Bad Indicator, Coolant Fill Active Pump, Coolant Fill, 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, 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 1 UniAir valve command, Cylinder 2 UniAir valve command, Cylinder 3 UniAir valve command, Cylinder 4 Deactivation Solenoid Control State, Cylinder 4 Deactivation Solenoid, Cylinder 4 UniAir valve command, Cylinder 6 Deactivation Solenoid Control State, Cylinder 7 Deactivation Solenoid Control State, Cylinder Balance Test, D+ Repetition Relay Command, Dasm Safety Indication Adaptative Cruise Control, Dasm Safety Indication Normal Cruise Control, Day Lights Left - Right, Day Lights Left -Right, Day Lights Left, Day Lights Right, Day Lights, Day Run Light (DRL) Parking Light Left LED, Day Run Light (DRL) Parking Light Left, 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, 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, Diagnose valve, 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, Disable Passenger Airbag Lamp Request, Display Dimming, Display Start Inhibit Data, DNA Status LED 3, Door Ajar Signal To Front Ceiling Dome, Door Handle Power Control, Door Handle Power, Door Handle Verification Test, Door Locks, Door Status LED Command, Door Status Led, Doors status - deterrence LED, Double Start Override Relay, Downstream lambda probe heater command, 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 Unlock, Driver Doors Status - Deterrence LED, Driver Heated Seat, Driver Seat Backrest Command, Driver Seat Lift Command, Driver Seat Slide Command, Driver Seat Tilt Command, 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 Right, DRL, DSU LED Command 1, DSU LED Command 2, DSU LED Command 3, DTCM Efficiency Position, DTI FUEL TRANSFER RLY, DTI LTR CLNT PMP, DTI SPRCHRGR BPV MOTOR, DTI VVL SOL1, DTI VVL SOL2, DTI VVL SOL3, DTI VVL SOL4, Dual Speed Fuel Pump Relay, Dual Speed Oil Pump Status, Dual Speed Oil Pump, Dual Tank Aux LP Relay, Duct Sensor - Floor Left, Duct Sensor - Floor Right, Duct Sensor - Panel Left,

Duct Sensor - Panel Right, Duct Sensors -Panel Right, Dump valve command, Duty Cycle Purge Solenoid, EBD (Electronic Brake Distribution) safety indication, EBD Safety Lamp, EBL Status, E-Call Backlight LED, 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 Green Status LED, E-Call Red Day PWM, E-Call Red Error LED, 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 Duty Cycle, EGR Hi Pressure Motor Test, EGR Positioner, EGR Throttle Valve, EGR Valve Actuator Test, EGR Valve Replaced, EGR Valve Solenoid Duty Cycle, Elec Stabil Ctrl (ESC) Sys Intrvntn - fail Ind HILL HOLDER Sys, Electric Park Brake, Electric seat movement Relay, Electric Seat Movimentation Relay, Electric Thermostat Heater Solenoid Duty Cycle, Electric Thermostat Heater Solenoid, Electric Thermostat Heater, Electric Vacuum Pump, Electric Wastegate Valve, Electronic Brake Distribution (EBD) safety indication, Electronic Parking Brake (EPB) failure indication, Electronic Stability Control (ESC) Indicator, Electronic Stability Control (ESC) OFF lamp indication, Electronic Stability Control (ESC) system deactivation, Electronic Stability Control Off, Electronic Stability Control, EMCC VLP Solenoid, Emergency Call Backlight LED PWM, Emergency Call Green LED PWM, Emergency Call Red LED PWM, Emissions Rolls Test Mode Is Active, Enable sunroof unit, 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 RPM Control, Engine Running Injector Kill Test, Engine Speed Cluster, Engine Temp LEDs, Engine Temperature, Engine Warm Up, Engine Water Over Temperature, Enter Button, Enter Plant Mode, Enter, EOBD (Electronic On Board Diagnostic) Failure Indicator, EOBD And Engine System Fault Lamp, EPB (Electric park brake) Button Led, EPB (Electric park brake) Red lamp, EPB (Electric park brake) Yellow lamp, EPB Failure Lamp, EPB Function Lamp, EPB Indicator And EPB Fail Indicator, EPB Service, EPB switch lamp, EPB Warning Light, EPS Adaptive Data Control, EPS Fail (Electric Power Steering), EQ Loudness Test, ESC - HILL HOLDER Sys Fail Indicator, ESC (Electronic Stability Control) Safety lamp, ESC (Electronic Stability Control) System Deactivation, ESC / Hill Holder Failure Lamp, ESC Button Lamp, ESC Disable Lamp, ESC Indicator, ESC Intervention-Fail, ESC Malfunction Lamp, ESC Off, ESC ON-OFF Indicator, ESC Safety Lamp, ESC, ESCL 12 Volt Feed Control, ESCL Unlock Control, ESIM Forced Monitor Test, ESM Power Supply, ESP button, ESP Light, ETC Indicator Test, ETC Lamp, ETC System Test, ETC Throttle Follower Test, EVAP Purge Valve, Evaporator Sensor Temperature, Evaporator Temp Sensor, Evaporator Temperature Sensor, 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 Control Variable Displacement (ECVD), External Mirror Fold, External Mirror Unfold, External Temperature, Externalcrown Light Rear Left LED, Externalcrown Light Rear Right LED, Externally Controlled Variable Displacement (ECVD) Command (DC), FAD Feedback Voltage, FAD Lock Request, FAD Supply Voltage, Fade Settings, Fader Level Settings, Fader Settings, Fan Climate Relay, Fan Clutch PWM Duty Cycle Output, Fan Clutch Test, Fan Off Button, Fan Rotary Detents, Fast Down Leveling Test, 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 Lamps, Fog Light Led, Fog Lights, Fog Rear Light Or Second Backup Light, Foot Well, Foot Well/Halo Lamps, Foot Well-Halo Lamps, Forward Collision Warning OFF, Forward Collision Warning Permanent Fail, Frequency Step Selection Tuner AM-FM, Frequency Step Selection Tuner FM2, 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 Heat Seat Request, 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 Heat Seat Request, Front Right Parking Light, Front Shut-Off Valve Request, 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 Filter Water Level Warning 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 Cleaning, Fuel Injector, Fuel Level LEDs, Fuel Level low, Fuel Metering Unit Actuator, Fuel Metering Unit, Fuel Pre Supply Pump, Fuel Pressure Override, Fuel Pressure Regulated O/P (Bar), Fuel Pressure Regulator Valve, 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, Gas Injector Relay, Gasoline Indicator, Gated Park ZFII Output Control, Gated Park ZFII Output, Gear Lever Position Display Test, Gear Position, Gear Selection, Generator Ramp Time, Generator Speed Threshold, Glow Lamp, Glow Plug / Cold Inhibit Lamp, Glow plug indication - Cold Start inhibition, Glow Plug, Glow Relay, Grid Test, Hand Brake-Braking System Fail-Brake Fluid Low Level, Hazard LED, Head Lamp Wash, Head Lamp Washer Relay, Head Rest Relay, Headlamp Washer, Heated Rear Window Led 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 Left Request, Heated Seat Passenger High Indicator, Heated Seat Passenger Low Indicator, Heated Seat Passenger Med Indicator, Heated Seat Right Request, Heated Steering Wheel indicator, Heated Steering Wheel Request, Heated Steering Wheel, Heated Steering Wheel~Heated Steering Wheel, Heater Rear Mirror, Heater Rear Window, Heating Driver Command, Heating Passenger Command, Heating Steering Wheel Command, 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, High Beam Light, High Beam Lights, High Beam On, 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 Pressure Fuel System Test, High Side For Diesel Filter Heater Relay Command, High Speed Engine Cooling Fan Control, High Speed Fan Relay, High Speed Fan, Hill Hold Indicator, Hill-Holder Safety indication, Hill-Holder Safety Lamp, Hill-Holder Safety Lamp-Message, Horn relay command, Horn Relay, Horn, HPCR Duty Cycle Output, HPCR Duty Cycle, Humidity Sensor Air Temperature, Humidity Sensor Dewpoint Temperature, Humidity Sensor Glass Temperature, Humidity Sensor Relative Humidity, HVAC Cool Down Test, HVAC Self Test, I/P Illumination, Ice Led, ICR-HCR Relay, 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 Control, 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, Initiate P2BA9 SCR Refill Monitor, Injector 1 coil command, Injector 1 command, Injector 2 coil command, Injector 2 command, Injector 3 coil command, Injector 3 command, Injector 4 coil command, Injector 4 command, Injector Kill Test, Inlet Metering Valve, Inlet valve FL activation, Inlet Valve FL, Inlet valve FR activation, Inlet Valve FR, Inlet valve front left activation, Inlet Valve Front Left, Inlet valve front right activation, Inlet Valve Front Right, Inlet Valve Left Front, Inlet Valve Left Rear, Inlet Valve LF(Normally Open), Inlet Valve LR (Normally Open), Inlet valve rear left activation, Inlet Valve Rear Left, Inlet valve rear right activation, Inlet Valve Rear Right, Inlet Valve RF (Normally Open), Inlet Valve Right Front, Inlet Valve Right Rear, Inlet valve RL activation, Inlet valve RL, Inlet Valve RR (Normally Open), Inlet valve RR activation, Inlet valve RR, Input Test, Instrument Panel Dimming, Instrument Panel Dimming, Intake Air Throttle Actuator Test, Intake Air Throttle Actuator, 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 Output, Intake Throttle Duty Cycle, Internal Led Night Lights, Internal Night Lights, Internalcrown Light Rear Left LED, Internalcrown Light Rear Right LED, 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 LED PWM Duty, Key LED, Key lock command, Key Symbol Back-Light PWM Duty, 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, Lamps Actuation-Left leveling actuator position, Lamps Actuation-Right leveling actuator position, 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, LCD Back-Light PWM Duty, LCD Symbols, Lcds Symbols, 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, 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 Air Distribution Motor, Left Air Mix Motor, Left Air Mix Servo Motor Target Position, 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 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, 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 Release Motor, Light sensor, LIN Anti Tilt Sensor Check, LIN Line Request Check, 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, Linear Solenoid SLB1 Output Current Value, Linear Solenoid SLC1 Output Current Value, Linear Solenoid SLC2 Output Current Value, Linear Solenoid SLC3 Output Current Value, Linear Solenoid SLT Output Current Value, Linear Solenoid SLU Output Current Value, Locate Learned Keys, Lock - Unlock Steering Wheel, LOCK 4WD, Lock Doors Command, Lock Rear Doors Relay, Longitudinal Anti Tilt Sensor, Loud Speaker Test, Low Beam Left, Low Beam Lights Halogen, Low Beam Lights, 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, LSU Heater 1, Main Left Temperature Actuator Position, Main/Left Temp Selected, Main-Left Temp. Door Actuator Position, Main-Left Temp. Door Position, Main-Left Temperature Actuator Position, Malfunction Indicator Lamp, Metering Unit Actuator, Metering Unit, Microphone Test, Mid Range Settings, Mid-Range Audio Level Settings, Mid-Range Settings, MIL Lamp, Mirror Heater, Mirror LED -Day-Night, Mirror LED -ON-OFF, Mirror LED, Mode 2 Actuator Position (Defrost Panel Door), Mode Selection, Mode, Module Self Test, Motorized Thermistor-Cabin Temp, MPFA Select Routine, MPFA Validate Routine, 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, NOx Sensor Replacement, 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, 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, On-Demand Self-Test, Outlet valve FL activation, Outlet Valve FL, Outlet valve FR activation, 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 Left, Outlet valve rear right activation, Outlet Valve Rear Right, Outlet Valve RF (Normally Closed), Outlet Valve Right Front, Outlet Valve Right Rear, Outlet valve RL activation, Outlet valve RL, Outlet Valve RR (Normally Closed), Outlet valve RR activation, 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, Parttime LED, Passenger Airbag (PAB) Status, Passenger Airbag LED, Passenger and Rear Doors Unlock, Passenger Cooled Seat, 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 Temp Detents, Passenger Temp Down Button, Passenger Temp Rotary Direction, Passenger Temp Up Button, Pilot 1 (USV Front, MCI Front -Normally Open), Pilot 1 (USV LF-RR, MCI LF-RR -Normally Open), Pilot 1 (USV1-Normally Open), Pilot 2 (USV Rear, MCI Rear -Normally Open), Pilot 2 (USV RF-LR, MCI RF-LR -Normally Open), Pilot 2 (USV2-Normally Open), Pilot valve 1 activation, Pilot Valve 1, Pilot valve 2 activation, Pilot Valve 2, 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 Ligh On-Follow Me Home-Light Parking, Position Light Relay, Position Lights, Power (OFF), Power Down, Power limitation function, Power Mirror Feed Relay Control, Power On and Disable User Inputs, Power Steering Failure Indication, Power Steering Failure Indicator, PPPA ON-OFF Indicator, PPPA, Pressure Control Solenoid Valve, Pressure feed valve 2 activation, 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 1 (HSV1-Normally Closed), Priming 2 (HSV Rear, LPF Rear -Normally Closed), Priming 2 (HSV RF-LR, LPF RF-LR -Normally Closed), Priming 2 (HSV2-Normally Closed), Priming valve 1 activation, Priming Valve 1, Priming valve 2 activation, Priming Valve 2, Proportional Purge Solenoid, Proportional Purge Solenoid., Proportional Surge Solenoid, PTC Cabin Heater 1 Actuation, PTC Cabin Heater 2 Actuation, PTC Cabin Heater 3 Actuation, PTC Control, PTC Heater Relay 1, PTC Heater Relay 2, PTC Heater Relay 3, PTC High Power (Relay), PTC Low Power (Relay), PTC Relay (33%), PTC Relay (66%), PTO, PTS Button, PTS ON-OFF Indicator, PTS Switch Simulation, Puddle Light Command Driver Side, Puddle Light Command Passenger Side, Puddle light Driver (Door handle and door panel), Puddle light Driver side, Puddle light Passenger (Door handle and door panel), Puddle light Passenger side, 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, Pump, Purge canister valve command, Purge Solenoid Duty Cycle, Purge Valve Duty-Cycle, Purge Vapors Test, PWM Fan Actuation Test, QVPM Enable Command, 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 Duty Cycle, Radiator Jalousie ShutterPosition, Radiator-Condenser Cooling Fan Relay 1 Control State, Radiator-Condenser Cooling Fan Relay 2 Control State, Radio mode selection, Radio Volume, Radio, Rail Pressure Sensor Replacement, 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, 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 HVAC Blower Motor, 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 Right And Left Tail T2 (Movable), Rear Right Parking Light, Rear Right Position Light, Rear Right Turn Light, Rear Right window lifter command, Rear Shut-Off Valve Request, Rear Stop Lights (Movable), Rear Trunk light, Rear Turn Lights Left EMEA, Rear Turn Lights Right EMEA, Rear Wash, Rear Window Washer, Rear Window Wiper, Rear Wiper, Rec Motor, RECIRC button, RECIRC Indicator, Recirc, Recirc. Door Actuator Position, Recirculation Door Actuator Position, Recirculation LED, Recirculation Motor, Recirculation pump activation, Recirculation

Pump, 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, 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 Air Mix Motor, Right Air Mixing Motor, 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 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, Safety Indication Adaptive Cruise Control, Safety Indication Forward Collision Warning, Safety Indication Normal Cruise Control, Safety indication, Satellite Digital Audio Radio Service (SDARS) Station Selection, Satellite digital audio receiver (SDAR) station selection, SBMT (Supply Battery Monitoring Time), SBMT 0, SBMT, SBMT2 (Supply Battery Monitoring Time), SCR Inlet Temp Sensor Replacement, SCR Relay Actuation Test, SCREEN OFF button, Screen Off, Screen Test Pattern, SDAR Station Selection, SDARS (Satellite Digital Audio Radio Service) 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, 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 Tuner Digital Audio Broadcasting (DAB), Seek Status, 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 Engine RPM, Set Transercase Clutch Torque, Shift Lever Position Test (62TE), Shift Lever Position Test (Non-RFE), Shift Lever Position Test (RFE), Shift Lock Coil Command, Shift Lock Command, Shift Lock Control, Shift Solenoid 1, Shift Solenoid 2, Shift Solenoid 3, Shift Solenoid 4, Shift Solenoid 5, Shift Solenoid 6, Shift Solenoid A, Shift Solenoid S1 (ON-OFF Component), Shift Solenoid S2 (ON-OFF Component), ShiftLock, Shutoff Correction Quantity, Shutoff Injector Quantity, Side Marker Lamps, Side Markers Command, Side markers, Simulator valve, Skip Shift Solenoid, Small Leak Verification Test, Smart Bar Command, 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, Solar Load Sensor Left, Solar Load Sensor Right, 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 LED command, SSB BACKLIGHT Control, Start Stop activation, Start/Stop System, Starter Relay, Starter Solenoid (High), Starter Solenoid High, Starter Solenoid, Starter Status, Station Selection, Steering Wheel Linear PWM Request -Output, Step 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, Sun Shade Control, Sunroof Abilitation, Surge Solenoid Control State, Surge Valve Solenoid, Sway Bar Indicator, Swing Gate Lock, Swing Gate Unlock, Swirl Valve actuator Test, Switch On EPB Failure Lamp, Switch On EPB Function Lamp, System Wiring Test, T Case Service Indicator Request, Tail Gate Lock, Tail Gate Unlock, 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, 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 Test, Throttle Valve Actuator, Throttle Valve, 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, TMC (Tandem Master Cylinder) cut valve 1 activation, TMC (Tandem Master Cylinder) cut valve 2 activation, 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 Clutch Torque, Transfer Case Low Lamp Request, Transfer Case Neutral Lamp Request, Transmission Component Tests, Transmission Verification Test, Treble Level Settings, Treble Settings, Truck Bed Lighting Leds, Truck Cargo Lamps, Trunk Latch Command relay, Trunk Light + Inadvertent Lights, Trunk Light, Trunk Opening Relay, Trunk Release Relay, Trunk/Flipper Glass Release Motor, Trunk-Flipper Glass Release Motor, Tumble Generator Valve, Tuner Rotary Detents, Tuner Rotary Direction, Turbo/VGT Component Replacement, 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, Turn Light Front Right, 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 Right, Twilight Sensor Value, Twilight Sensor, 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, Upstream lambda probe heater command, Urea (Reductant) Pressure Line Heater Actuaton Test, Urea (Reductant) Tank Heater Actuaton Test, Urea Dosing Valve Actuation Test, 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, Video Input Settings, 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, 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, Waste gate valve command, Wastegate Solenoid Control State, Wastegate Solenoid Duty Cycle, Water In Fuel, Water Pump Charge Air Cooling, Wheel Speed Sensor Functional Test, 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 Heater Led, Window Lifter Switch Enable, Windshield heater, 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 Lane Departure Warning Indicator, Yellow Rear Defrost Indicator, Yellow Recirc Indicator

Ford/Lincoln Coverage

- Added coverage for 261 new system applications

9 new Adjustment type special test:

Active Torque Coupling Configuration, Climate Control System Actuators Calibration, Occupant Classification System Module (OCSM) Reset, Relearn Vehicle Data - AWD, Reset KAM, Reset the Outside Air Temperature Sensor Learned Values, Steering Angle Sensor Calibration, Suspension Height Sensor Calibration, Vehicle Dynamics Suspension Temperature Calibration

252 new Actuation type special tests:

% Of Total Fuel Mass To Be Delivered By Direct Inj -Commanded, (Cruise) Resume Switch, (Cruise) Set-Switch, (Cruise) Set+ Switch, (EVAP) Vapor Blocking Valve, 4WD Switch Status, 4WD-AWD Front Axle Disconnect - Clutch Commanded State, 4WD-AWD Front Axle Disconnect - High Level Strategy Commanded, 4WD-AWD Transfer Case Actuator -A- Requested Torque, 4WD-AWD Transfer Case Motor Position Request, ABS Valve Power Supply, ABS Warning Lamp, A-C Distribution Valve A Output Ckt Commanded Energized, A-C Distribution Valve B Output Ckt Commanded Energized, A-C Recirculating Servo Position Status, Active Grille Air Shutter -A- Position Commanded, Actuator Supply Voltage -B- Control State, Adaptive Cruise Distance Gap (-) Switch, Adaptive Cruise Distance Gap (+) Switch, Adaptive Front Lighting Fault, Air Conditioning Clutch Engaged, Air Conditioning Compressor Commanded State, Air Mode Actuator, Airbag Warning Indicator, All Warning Lamps, Anti-Theft Horn Status, Auxiliary Blower Output, Auxiliary Transmission Fluid Pump Commanded, Backward Pedal Position Control, Battery Pack Coolant Ctrl Valve A - Output Ckt Energized, BECM Cell Voltage, Blower Motor Speed, Brake Light Activation, Brake System Fault Indicator Lamp, Brake-Shift Interlock, Cabin Coolant Heater Control, Cabin Heater Diverter Valve, Camera Power Control, Center High Mounted Stop Lamp Output Control, Center Speaker Status, Center Tweeter Status, Command of diverter valve - Battery pack, Commanded Equivalence Ratio (Air to Fuel Mixture) Bank 1, Commanded Equivalence Ratio (Air To Fuel Mixture) Bank 2, Coolant Overtemp, Coolant Pump -A- Control Speed - Commanded, Coolant Pump -A- is Commanded On, Coolant Pump -B- Control Speed - Commanded, Courtesy Lamps, Courtesy Puddle Step Lamps, DC To DC Converter Enable, DC-DC Enable Status, Delayed Accessory Power, Desired Idle Speed (Rpm), Diesel Pre-Heater, Door Ajar Warning Indicator, Driver Heated Seat,

ECO Mode, Electric Transmission Fluid Pump Control Duty Cycle - Commanded, Engine Coolant Bypass Valve Control Output, Engine Coolant Bypass Valve -D- Commanded to be Energized, Engine Idle Shutdown Extended, Engine Oil Pressure Control Duty Cycle - Commanded, EVAP LDP Vac Sw Valve - Change Over From Vent To LDP, Evaporative Emission Canister Purge Valve Duty Cycle, Evaporative Emission Canister Vent Valve, Evaporative System Leak Detection Pump Commanded State, Fan control high speed, Fan control low speed, Fan Speed Desired, FM Radio Band, Forward Pedal Position Control, Front Motor Up, Front Blower Relay, Front Fog Lamp Indicator, Front Fog Lamps Request, Front Park Lamps Output, Front Window Down Output, Front Window Up Output, Fuel Fill Door Unlock Output - Commanded To Enable State, Fuel Gauge Indicator Control, Fuel Pump Relay, Fuel Rail Pressure Desired, Generator 2 Voltage Desired, Generator Voltage Desired, Heater Control For HO2S 11 And HO2S 21, Heater Control For HO2S 12 And HO2S 22, HEV Ready Light, High Beam Indicator, Hill Descent Control, Horizontal Motor Backward, Horizontal Motor Forward, Hybrid-EV Traction Battery Thermal System Operational Levels, Hybrid-EV Wake Up - Commanded, Instrument Illumination, Internal Voltage Boost Circuit State, Key (Removal) Inhibit, Lamp Control, Left Blend Door Position, Left Bottom Bolster Bladder Inflate Status, Left Climate Seat Mode, Left Climate Seat State, Left Cursor Down Arrow, Left Cursor Left Arrow, Left Cursor OK Button, Left Cursor Right Arrow, Left Cursor Up Arrow, Left Front Defrost Output, Left Front Dump, Left Front Fog Lamp, Left Front Speaker Status, Left Front Turn Signal Lamp Status, Left Front Tweeter Status, Left Headlamp High Beam, Left Headlamp Low Beam, Left Rear Dump, Left Rear Speaker Status, Left Rear Turn Signal Lamp Status, Left Rear Turn Signal-Trailer Relay Status, Left Rear Tweeter Status, Left Seat Back Heating PWM Control, Left Seat Cooling PWM Control, Left Seat Cushion Heating PWM Control, Left Side Bolster Bladder Inflate Status, Left Stop-Turn Inner Lamp, Left Stop-Turn Middle Lamp, Left Stop-Turn Outer Lamp, Left Turn Signal Lamp Status, Liftgate Release Output Status, Liftgate-Decklid Release Output Status, Line Pressure Control Desired, Load Shed Output Control, Low Fuel Warning Indication, Low Washer Fluid Warning, Lower Lumbar Bladder Inflate Status, Lumbar Forward Motor Control, Max Defrost, Mid-Lumbar Bladder Inflate Status, Mirror Fold Out Output, Motor Electronics Coolant Pump, Oil Pressure Low Indicator, On Demand Test, Output State Control Of Torque Converter, Over Drive (O-D) off, Passenger Heated Seat, PCM WAKEUP LINE, Power Fold Mirror Activation Status, Power Point Output Relay, Rear (Hvac) Mode Control Input, Rear Blower Control, Rear Defrost (Heated Backlight), Rear Fog Lamp Indicator, Rear Motor Down, Rear Motor Up, Rear Park Lamps Output, Rear Temperature Flap Position, Rear Window Down Output, Rear Window Up Output, Recline Motor Backward, Recline Motor Forward, Reverse Lamp, Right Blend Door Position, Right Bottom Bolster Bladder Inflate Status, Right Climate Seat Mode, Right Climate Seat State, Right Cursor Down Arrow, Right Cursor Left Arrow, Right Cursor OK Button, Right Cursor Right Arrow, Right Cursor Up Arrow, Right Front Defrost Output, Right Front Dump, Right Front Fog Lamp, Right Front Speaker Status, Right Front Turn Signal Lamp Status, Right Front Tweeter Status, Right Headlamp High Beam, Right Headlamp Low Beam, Right Rear Dump, Right Rear Speaker Status, Right Rear Turn Signal Lamp Status, Right Rear Turn Signal-Trailer Relay Status, Right Rear Tweeter Status, Right Seat Back Heating PWM Control, Right Seat Cooling PWM Control, Right Seat Cushion Heating PWM Control, Right Side Bolster Bladder Inflate Status, Right Stop-Turn Inner Lamp, Right Stop-Turn Middle Lamp, Right Stop-Turn Outer Lamp, Right Turn Signal Lamp Status, Run-Start Output Control, 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, Seat Tilt Down Motor Control, Shift Solenoid F Commanded Current, Shift Solenoid Pressure Control A, Shift Solenoid Pressure Control B, Shift Solenoid Pressure Control C, Shift Solenoid Pressure Control D, Shift Solenoid Pressure Control E, Shock Setting Button, Side Light Lamp, Side Mirror Heating Output Control, Side Mirror Turn Signal Lamp Control, Sounder Output Request, Sounder Output, Spark Advance, Speed Control (ASLD) Switch, Speed Control Actuator Switch Off, Speed Control Actuator Switch On, Speed Control Cancel Switch, Speed Control Cancel-Resume Switch, Speed Control Gap Switch, Speed Control On-Off Cancel Switch, Speed Control On-Off

Switch, Speedometer, Spotlight Mirror Output, Start Button Mode Indicator Control, Steering Column Tilt Up, Steering Effort Button, Stop-Start, Subwoofer Status, Tachometer Gauge Indicator Control, Temperature Gauge, Third Row Left Speaker Status, Third Row Power Fold Seat Output, Third Row Right Speaker Status, Tire Pressure Telltale Status, Torque Converter Clutch Solenoid Commanded Current, Traction Control Indicator, Traction Control Off Indicator, Trailer Brake Output Circuit Duty Cycle - Measured, Trailer Tow Park-Tail Lamp Output, Trans Hydraulic Accumulator Sol Ckt - Commanded Energized, Transmission System (Mil) Fault, Turbo Boost Gauge Pointer Placement Command, Turbocharger Bypass Valve 1, Turbocharger Wastegate, Upper Lumbar Bladder Inflate Status, Variable Camshaft Timing Exhaust Angle Desired, Variable Camshaft Timing Intake Desired Angle, Vehicle Mode, Video Output, Volume, Warning Lamp Status 1 - Charge Warning, Water In Fuel Indicator, Wiper Heater Output

General Motors Coverage

43 new Adjustment type special tests:

Adaptive Pressure Control Learn, Automated Brake Bleed, Brake Pedal Position Sensor Learn, Brake Pressure Sensor Calibration, CAN Bus Configuration Learn, Configure New Module, Copy And Paste TPM Information, Crankshaft Pos Variation Learn, Cylinder Deactivation Exhaust Flow Valve Learn, Engine Oil Life Reset, Exhaust Flow Control Valve Learn, Fuel Rail Pressure Relief Valve Learned Values Reset, Fuel Trim Reset, HO2S Heater Learn, Idle Learn Reset, Info Display/Infotainment Faceplate Reset, Invalidate All Fobs, Program Key Fob 1, Program Key Fob 2, Program Key Fob 3, Program Key Fob 4, RVS Disable History Reset, Setup SDM Part Number In BCM, Timing Belt Life Reset, Tire Pressure Sensor Registration, Tire Pressure Sensor Signal Reset, Tire Type/Pressure Selection, Transmission Adaptive Pressure Reset, Transmission Adaptive Values Learn, 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 Service Fast Learn, WLAN Password Reset, WLAN Service Set Identifier (SSID) Reset, Yaw Rate Sensor Learn

128 new Actuation type special tests:

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, Accessory/RAP Relay, Active Grill Air Shutter 1, Active Grill Air Shutter 2, Active Grill Air Shutter System, All Door Lock Unlock, Auxiliary Ignition Run Relay, Backup Lamps, Camshaft Position Actuator, CD, Central Stop Lamp, Compression Test, Courtesy Lamps, Cylinder Deactivation Exhaust Flow Control Valve, Cylinder Power Balance, Daytime Running Lamps, Depressurize Fuel System, Display Dimming, Display Test, Engine Mount Actuator Output 1, Engine Mount Actuator Output 2, Engine Oil Pressure Control Solenoid Valve, Engine Speed Control, EVAP Purge/Seal, EVAP Service Bay Test, EVAP Vent Solenoid, Exhaust Flow Control Valve System, Fog Lamps, Forward Collision Alert Switch, Fuel Control Loop Status, Fuel Injector Balance, Fuel Pressure, Fuel Pump Enable, Fuel Pump, Fuel Rail Pressure, Fuel Trim Enable, GEN L-Terminal, Generator Regulator Setpoint, Green Indicator, High Beam, 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, Horn Relay, Incandescent Dimming, Instrument Cluster Gauge Sweep, Key Fob Button Test, Lane Departure Warning Indicator, Lane Departure Warning Switch, LED Backlight Dimming, Left Front Turn Lamp, Line PC Solenoid, Line Pressure Control Solenoid Valve, Low Beams, LR Turn Signal, Malfunction Indicator Lamp, Misfire Graph, Next Available Slot, O2 Sensor Heater Bank 2 Sensor 2, Object Detection Alert Indicators, Parking Lamps, Passenger Air Bag Off Indicator, Passenger Air Bag On Indicator, Passenger Seat Belt Reminder Indicator, PC Solenoid 1, PC Solenoid 2, PC Solenoid 3, Phone Call Test, Pressure

Control Solenoid Valve 2, Pressure Control Solenoid Valve 4, Pressure Control Solenoid Valve 5, Pressure Control Solenoid Valve, Rear Cross Traffic Audible Alert, Rear Cross Traffic Visual Alert, Rear Fog Lamp, Red Indicator, RF Turn Signal, RR Turn Signal, Run Crank Relay, Shift Lock Solenoid, Shift Solenoid 1, Shift Solenoid 2, Shift Solenoid 3, Shift Transmission, Spark Retard, Starter Relay, Suspension Position Sensor Trim Height, TCC Control Solenoid, TCC Pressure Control Solenoid Valve - Dynamic Test, TCC Pressure Control Solenoid Valve - Static Test, TCC Pressure Control Solenoid Valve, Throttle Position, Throttle Sweep, 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 Brake Duty Cycle, Trailer Brake Relay, Transmission Accumulator Solenoid Valve, Transmission Clutch Learn Status, Transmission Control Solenoid Valve 1 Current, Transmission Control Solenoid Valve 1, 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, Transmission Control Solenoid Valve 9, Transmission Cooling Fan Duty Cycle, Vehicle Health Data Upload, Windshield Wiper Motor Relay, Wiper Washer Motor

New Coverage – USA Asian

Hyundai/Genesis Coverage

- Added coverage for 371 new system applications

18 new Adjustment type special tests:

Adaptive Value Backup Input (ECU Transfer Assy replacement at once), Adaptive Value BackUp Input (ECU replacement), Air Bleeding Mode, Auto Detected Configuration Reset, Clutch Learning Reset, iMEB Actuator Initialization, Reset Adaptive Values, Resetting Adaptive Values, Resetting E-CVVT Values, SAHLS Sensor Origin Point Setting, Seat Limit Position Setting, Steering Limit Position Setting, TPMS Reception Rate Measuring Mode, TPMS Test, Vehicle Name Writing, WCT Reprogram, Wheel Sensor ID Writing, Write VIN

580 new Actuation type special tests:

12V Latch Relay OFF, 12V Latch Relay ON, 3rd Row SBR Center Indicator(Optional), 3rd Row SBR Left Indicator(Optional), 3rd Row SBR Right Indicator(Optional), 4th Row SBR Center Indicator(Optional), 4th Row SBR Left Indicator(Optional), 4th Row SBR Right Indicator(Optional), AAF Forced Operation - Auto, AAF Forced Operation - Close, AAF Forced Operation - Open, A-C Compressor Relay, Active Air Flap Test, Actuator Control - Apply, Actuator Control - Release, After Blower USM Set Off, After Blower USM Set On, All Mood Lamp Blue LED Test, All Mood Lamp Green LED Test, All Mood Lamp Red LED Test, All Mood Lamp White LED Test, Alternator Control, Assist BSD Indicator, Assist Door Courtesy Lamp Output, Assist Door Lock Indicator, Assist Outside Mirror Down, Assist Outside Mirror Left, Assist Outside Mirror Right, Assist Outside Mirror Up, Assist Power Window Down (Option), Assist Power Window Up (Option), Assist Seat Belt Indicator, Assist Side Window Auto Down, Assist Side Window Auto Up, Assist Side Window Down, Assist Side Window Up, Assistant Side Outside Handle Antenna Output (Power and GND), ATM Solenoid, Auto Cut Relay, Auto Defog Mode Door - Close, Auto Defog Mode Door - Open, Auto Light Power, Auxiliary Fuel Injector for Flexible fuel, Auxiliary Fuel Pump for Flexible fuel, AV Tail, AVM + FrontLeft + FrontRight View, AVM + RearLeft + RearRight View, Back Up

Lamp, Battery Coolant Valve Operation Mode1 (Combined Mode) ON, Battery Coolant Valve Operation Mode1 (Separated Mode) ON, Battery EWP Operation Mode for Degassing and Circulation, Battery Warning Lamp, BCM Buzzer Output (Internal/External), BCM Buzzer Output (Internal-External), Bifunction Headlamp High LH Solenoid IPS Output, Bifunction Headlamp High RH Solenoid IPS Output, BSD Indicator, Burglar Horn Relay, Canister Purge Valve, Canister Shut Off Valve Clocked(OBD-2 Only), Canister Shut Off Valve(OBD-2 Only), Central Door Lock Switch Indicator Output, Chageover Valve, Charge Inlet Lock Relay, Charge Inlet Unock Relay, Charging Status LED (Green) On, Charging Status LED (Yellow) On, Child Lock Relay Output, Child Unlock Relay Output, Clamp Status ACC(Amber) LED Color illumination, Clamp Status IGN(Blue) LED Color illumination, Clamp Status Off(Red) LED Color illumination, Compressor Off, Compressor On, Console Off Door, Console On Door, Console Temperature Air Mix Door 0%, Console Temperature Air Mix Door 100%, Console Temperature Air Mix Door 50%, COOLANT VALVE - 3WAY (HTR) - Close, COOLANT VALVE - 3WAY (HTR) - Open, Cooler step 3 operation, Cooling Fan PWM, Cornering Lamp LH Output, Cornering Lamp RH Output, Courtesy Lamp RL Output, Courtesy Lamp RR Output, Cruise Control Main Lamp(Optional), Cruise Control SET Lamp(Optional), Damper Clutch Solenoid (DCC), Dead Lock Relay, Dedicated DRL Left Output, Dedicated DRL Output (Option), Dedicated DRL Right Output, Defogger - Deicer Relay, DEHUM VALVE - EXV (DEHUMI) Valve Close, DEHUM VALVE - EXV (DEHUMI) Valve Open, Disconnecter Disengage, Disconnecter Engage, Door Lock Indicator, Door Lock Relay, Door Unlock Relay, Drive Side Puddle Lamp, Driver Air Mix Door-0%, Driver Air Mix Door-100%, Driver Air Mix Door-50%, Driver Courtesy Lamp, Driver Door Courtesy Lamp Output, Driver Door Lock, Driver Door Unlock Relay (Option), Driver Door Unlock, Driver Heater Control, Driver Mode Door-DEF, Driver Mode Door-Floor, Driver Mode Door-Vent, Driver Seat Belt Indicator, Driver Seat Heat Mode to the High, Driver Seat Vent Mode to the High, Driver Side Outside Handle Antenna Output (Power and GND), Driver Side Repeater, DRV/AST Power Window Enable Output, DRVM (Driving Rear View Monitor), Electric Shuttle Valve-Left Front, Electric Shuttle Valve-Right Front, Electrically Controlled Water Pump (Option), Electrically Controlled Water Pump, Electronic Expansion Valve (Battery Chiller) - Close, Electronic Expansion Valve (Battery Chiller) - Open, Electronic Expansion Valve (Heat Pump) - Close, Electronic Expansion Valve (Heat Pump) - Open, Electronic Expansion Valve (Recever Drier) - Close, Electronic Expansion Valve (Recever Drier) - Open, Electronic Waste Gate Valve (Turbo Only), Electronically Controlled Water Pump(CWP), EMS Wakeup Output, Engine Check Lamp(MIL), EPB Apply RH and LH, EPB Releas RH and LH, ESS Lamp, ETC Motor, EVAP Leakage Test, Event Indicate LED On-Off, EVP, EWP Max RPM Operation, Exhaust Flap(EF), Exhaust Gas Recirculation Valve, Exterior Tail Lamp Front Left Output, Exterior Tail Lamp Front Right Output, Exterior Tail Lamp Left(Front and Rear) Output, Exterior Tail Lamp Rear Left Output, Exterior Tail Lamp Rear Right Output, Exterior Tail Lamp Right(Front and Rear) Output, External Buzzer Output, Fan Motor Control-High Speed, Fan Motor Control-Low Speed, FAN ON, Fan1 1st, Fan1 2nd, Fan1 3rd, Fan1 4th, Fan1 5th, Fan1 6th, Fan1 7th, Fan1 8th, Fan1 9th, Fan1 Stop, Flasher Sound Relay(Optional), Folding Actuator Signal Output, Foot Lamp Output(Optional), Front Air Flow Door - 0%, Front Air Flow Door - 100%, Front Air Flow Door - 50%, Front BLDC Blower Motor ORPM, Front BLDC Blower Motor 1000RPM, Front BLDC Blower Motor 1500RPM, Front BLDC Blower Motor 2000RPM, Front BLDC Blower Motor 2500RPM, Front BLDC Blower Motor 500RPM, Front BLDC Blower Motor MAX RPM, Front Blower Fan Motor-1Step, Front Blower Fan Motor-2Step, Front Blower Fan Motor-3Step, Front Blower Fan Motor-4Step, Front Blower Fan Motor-5Step, Front Blower Fan Motor-6Step, Front Blower Fan Motor-7Step, Front Blower Fan Motor-8Step, Front Blower Fan Motor-Off, Front Bumper Antenna Output (Power and GND), Front Charge Door Lamp Output, Front Deicer Relay, Front Fog and Cornering Lamp Left Output, Front Fog and Cornering Lamp Right Output, Front Fog Lamp Left Output, Front Fog Lamp Output, Front Fog Lamp Right Output, Front Glass Heated Relay Output, Front Glass Heated Switch Indicator Output, Front Indicate LED On-Off, Front Left Side Window Auto Down, Front Left Side Window Auto Up, Front Left Side Window Down, Front Left Side Window Up, Front Left Turn Signal Output, Front Right Side Window Auto Down, Front Right Side Window Auto Up, Front

Right Side Window Down, Front Right Side Window Up, Front Right Turn Signal Output, Front Seat Heat Mode to the High, Front Seat Vent Mode to the High, Front Top-AVM View, Front Top-SVM View, Front Turn Signal Lamp Activation LH Output, Front Turn Signal Lamp Activation RH Output, Front Washer Motor Output, Front-Left View, Front-Right View, Front-SVM View, Front-Wide View, Frunk Lamp Output, Fuel Door Lock Solenoid Output (PHEV Only), Fuel Door Open Solenoid Output (PHEV Only), Fuel Pressure Indicator Lamp(LPI), Fuel Pressure Ragulator (GDI Only), Fuel Pump Control, Fuel Pump Relay, Fuel Tank Isolation Valve, Gauge ON, HAC Brake Lamp Actuator, Haptic Steering Wheel Motor Output, Hat Shelf Antenna Output (Power and GND), Hazard Indicator, Hazard Mode State for Turn Signal Lamp Sequential Mode, Head Lamp High Left Output, Head Lamp High Output, Head Lamp High Relay, Head Lamp High Right Output, Head Lamp Low Left Output, Head Lamp Low Output, Head Lamp Low Right Output, Head Lamp Washer Relay, Head Lamp Welcome Command, Heated Handle Indicator(Optional), Heated Handle Output(Optional), Heated Washer Nozzle Output, Heated Washer Nozzle Relay, Heater step 3 operation, HICM Activate Diagnostics, HICM Relay, High Mounted Stop Lamp Output, HLL(Head Lamp Leveling) Max(High) Position, HLL(Head Lamp Leveling) Middle(Center) Position, HLL(Head Lamp Leveling) Min(Low) Position, HMI Mirror Alert Left LED Blinking, HMI Mirror Alert Left LED ON, HMI Mirror Alert Right LED Blinking, HMI Mirror Alert Right LED ON, HMI Switch LED, HV PTC OFF, HV PTC ON(Min.), Ignition 3 Relay, Ignition Coil Enable-Disable-#1, Ignition Coil Enable-Disable-#2, Ignition Coil Enable-Disable-#3, Ignition Coil Enable-Disable-#4, Ignition Coil Enable-Disable-#5, Ignition Coil Enable-Disable-#6, Ignition Coil Enable-Disable-#7, Ignition Coil Enable-Disable-#8, Illumination, iMEB Valve Control-Line Split Valve, iMEB Valve Control-MCV(#2), iMEB Valve Control-MCV(#5), iMEB Valve Control-MCV(#6), iMEB Valve Control-Pedal Simulator Valve, iMEB Valve Control-Release Control Valve, iMEB Valve Control-Wheel Split Valve, Immobilizer Lamp(Optional), Indicator ALL OFF, Indicator ALL ON, Indicator Output 100%, Indicator Output 25%, Indirect Vent door, Injector Disable-Cylinder 1, Injector Disable-Cylinder 2, Injector Disable-Cylinder 3, Injector Disable-Cylinder 4, Injector Disable-Cylinder 5, Injector Disable-Cylinder 6, Injector Disable-Cylinder 7, Injector Disable-Cylinder 8, Injector(DI) Disable-Cylinder 1, Injector(DI) Disable-Cylinder 2, Injector(DI) Disable-Cylinder 3, Injector(DI) Disable-Cylinder 4, Injector(MPI) Disable-Cylinder 1, Injector(MPI) Disable-Cylinder 2, Injector(MPI) Disable-Cylinder 3, Injector(MPI) Disable-Cylinder 4, Inlet Valve-Front Left Control, Inlet Valve-Front Right Control, Inlet Valve-Left Front, Inlet Valve-Left Rear, Inlet Valve-Rear Left Control, Inlet Valve-Rear Right Control, Inlet Valve-Right Front, Inlet Valve-Right Rear, Intake Door - Fresh, Intake Door - Recirc, Interior Antenna #1 Output (Power and GND), Interior Antenna #2 Output (Power and GND), Interior Antenna #3 (Trunk Antenna : Sedan Type) Output (Power, Interior Mood Lamp Output (Option), ISG Test(Optional), ITM Valve, Key Hole Illumination (Manual Key Type), Key Interlock Solenoid(Manual Key Type), Lamp Control - EPB Status Lamp, Lamp Control - EPB Warning Lamp, Lamp Control, LampLoad AutoCut IPS Output, LongTermLoad Cut Relay Output, Luggage Lamp, Main Relay (+) ON, Main Relay(-) ON, Main Relay(-), Precharge Relay, Simultaneously ON (Precharge se, Main Relay, Manually Active Air Flap Close, Manually Active Air Flap Open, Mirror Folding Operation (Option), Mirror Select Left indicator, Mirror Select Right indicator, Mirror Unfolding Operation (Option), Mood Lamp Output, Motor, Move Assist Outside Mirror To The Highest Position, Move Assist Outside Mirror To The Lowest Position, Move Assist Outside Mirror To The Most Left Position, Move Assist Outside Mirror To The Most Right Position, Move DRIVE OUTSIDE MIRROR to the highest position, Move DRIVE OUTSIDE MIRROR to the lowest position, Move DRIVE OUTSIDE MIRROR to the most left position, Move DRIVE OUTSIDE MIRROR to the most right position, Move P/SEAT to the Foremost Position(Cushion Extension), Move P/Seat To The Foremost Position(Recline), Move P/Seat To The Foremost Position(Slide), Move P/Seat To The Highest Position(FR Height), Move P/SEAT to the Highest Position(Head Rest), Move P/Seat To The Highest Position(RR Height), Move P/SEAT to the Last Position(Cushion Extension), Move P/Seat To The Last Position(Recline), Move P/Seat To The Last Position(SILDE), Move P/Seat To The Lowest Position(FR Height), Move P/SEAT to the Lowest Position(Head Rest), Move P/Seat To The Lowest Position(RR Height), Move P-Seat to the Foremost

Position (Cushion Extension), Move P-Seat to the Foremost Position (Head Rest Slide), Move P-Seat to the Foremost Position (Recline), Move P-Seat to the Foremost Position (Shoulder), Move P-Seat To The Foremost Position (Slide), Move P-Seat to the Highest Position (FR Height), Move P-Seat to the Highest Position (Headrest), Move P-Seat to the Highest Position (RR Height), Move P-Seat to the Last Position (Cushion Extension), Move P-Seat to the Last Position (HeadRest Slide), Move P-Seat to the Last Position (Recline), Move P-Seat to the Last Position (Shoulder), Move P-Seat To The Last Position (Slide), Move P-Seat to the Lowest Position (FR Height), Move P-Seat to the Lowest Position (Headrest), Move P-Seat to the Lowest Position (RR Height), Move Steering Column At The Longest Position (Tele), Move Steering Column At The Shortest Position (Tele), Move Steering Column To The Highest Position (Tilt), Move Steering Column To The Lowest Position (Tilt), Navi Wakeup Signal Output, O2 Heater Front (B1-S1), O2 Heater Front (B2-S1), O2 Heater Rear (B1-S2), O2 Heater Rear (B2-S2), OBC Wake up Output, Oil Change Warning Lamp, Oil Control Valve - Exhaust Bank 1(Optional), Oil Control Valve - Exhaust Bank2, Oil Control Valve - Intake Bank1, Oil Control Valve - Intake Bank2, Oil Pressure Warning Lamp, Openbed Box Lamp Output, Openbed Cargo Lamp Output, Openbed Lamp Switch Indicator Output, Operate Assist Side Fold, Operate Assist Side Unfold, Operate DRIVE SIDE FOLD, Operate DRIVE SIDE UNFOLD, Operate DRIVE SIDE WINDOW AUTO DOWN, Operate DRIVE SIDE WINDOW AUTO UP, Operate DRIVE SIDE WINDOW DOWN, Operate DRIVE SIDE WINDOW UP, Outlet Valve-Front Left Control, Outlet Valve-Front Right Control, Outlet Valve-Left Front, Outlet Valve-Left Rear, Outlet Valve-Rear Left Control, Outlet Valve-Rear Right Control, Outlet Valve-Right Front, Outlet Valve-Right Rear, Parasitic Current Auto-Block IPS, PAS Buzzer Output (RPAS Buzzer Output), PAS Indicator (RPAS Off Indicator), Passenger Air Mix Door-0%, Passenger Air Mix Door-100%, Passenger Air Mix Door-50%, Passenger Mode Door - Defog, Passenger Mode Door - Floor, Passenger Mode Door - Vent, Passenger Seat Heat Mode to the High, Passenger Seat Vent Mode to the High, Perform CPU (Video Recording and Display Output) On-Off, Perform Erase All Video File, Perform Event Recording, Pocket Light Output (Option), Power Supply to the ACC Relay of Main MCU, Power Supply to the IGN1 Relay of Main MCU, Power Supply to the IGN1/IGN2 Relay of Main MCU, Power Supply to the IGN1/STARTER Relay of Main MCU, Power Supply to the IGN1-IGN2 Relay of Main MCU, Power Supply to the IGN1-STARTER Relay of Main MCU, Power Window Relay, Precharge Relay ON, Precharge Relay ON, Main Relay (-), (+) ON (Normal sequence), Pressure Control Solenoid (LP), Puddle Pocket Lamp Output, Quick Charge Relay (+),(-), Main Relay (-), (+) ON (Normal Char, Quick Charger Relay(-) ON, Quick Charger Relay(-)(+) ON simultaneous, Quick Charger Relay(+) ON, Radiator Fan Forced Operation, Radiator shutter 1 - Auto test, Radiator shutter 1 - Close test, Radiator shutter 1 - Open test, Read VIN, Rear Air Flow Door - 0%, Rear Air Flow Door - 100%, Rear Air Flow Door - 50%, Rear Air Mix Door-0%, Rear Air Mix Door-100%, Rear Air Mix Door-50%, Rear Air Mix(A) Door-0%, Rear Air Mix(A) Door-100%, Rear Air Mix(A) Door-50%, Rear Blower Fan Motor-1Step, Rear Blower Fan Motor-2Step, Rear Blower Fan Motor-3Step, Rear Blower Fan Motor-4Step, Rear Blower Fan Motor-5Step, Rear Blower Fan Motor-6Step, Rear Blower Fan Motor-7Step, Rear Blower Fan Motor-8Step, Rear Blower Fan Motor-Off, Rear Bumper Antenna Output (Power and GND), Rear Charge Door Lamp Output, Rear Curtain Down Output [Rear Curtain Hall Sensor Power Output, Rear Curtain Up Output [Rear Curtain Hall Sensor Power Output(O, Rear Defogger Relay, Rear Driver B-PILLAR Door - 0%, Rear Driver B-PILLAR Door - 100%, Rear Fog Lamp (Option), Rear Fog Lamp Left Output, Rear Fog Lamp Right Output, Rear illumination, Rear Left Door Lock Indicator Output, Rear Left Power Window Down (Option), Rear Left Power Window Up (Option), Rear Left Side Courtesy Lamp, Rear Left Side Door Curtain Down (Only Windows Close Status), Rear Left Side Door Curtain Up (Only Windows Close Status), Rear Left Side Window Auto Down (Option:Curtain Bottom Status), Rear Left Side Window Auto Up (Option:Curtain Bottom Status), Rear Left Side Window Down (Option:Curtain Bottom Status), Rear Left Side Window Up (Option:Curtain Bottom Status), Rear Left Turn Signal Output, Rear LH Seat Heat Mode to the High, Rear LH Seat Vent Mode to the High, Rear mode door - B-L, Rear mode door - Floor, Rear mode door - Vent, Rear Mood Lamp (Both Left and Right), Rear Passenger B-PILLAR Door - 0%, Rear Passenger B-PILLAR Door - 100%,

Rear Pocket Lamp (Both Left and Right), Rear Power Window Enable Output (Option), Rear RH Seat Heat Mode to the High, Rear RH Seat Vent Mode to the High, Rear Right Door Lock Indicator Output, Rear Right Power Window Down (Option), Rear Right Power Window Up (Option), Rear Right Side Courtesy Lamp, Rear Right Side Door Curtain Down (Only Windows Close Status), Rear Right Side Door Curtain Up (Only Windows Close Status), Rear Right Side Window Auto Down (Option:Curtain Bottom Status), Rear Right Side Window Auto Up (Option:Curtain Bottom Status), Rear Right Side Window Down (Option:Curtain Bottom Status), Rear Right Side Window Up (Option:Curtain Bottom Status), Rear Right Turn Signal Output, Rear SBR Symbol Indicator Output(Option), Rear Seat Belt Center Indicator (Option), Rear Seat Belt Left Indicator (Option), Rear Seat Belt Right Indicator (Option), Rear Seat Heat Mode to the High, Rear Seat Vent Mode to the High, Rear Temp Cool Door - 0%, Rear Temp Cool Door - 100%, Rear Temp Cool Door - 50%, Rear Temp Warm Door - 0%, Rear Temp Warm Door - 100%, Rear Temp Warm Door - 50%, Rear Top-AVM View, Rear Top-SVM View, Rear View Switch Indicator Output, Rear Washer Motor Output, Rear Wiper Relay (Option), Rear Wiper Relay, Rear-Left View, Rear-Right View, Rear-SVM View, Rear-Wide View, RL Door Lock Relay, RL Door Unlock Relay, Room Lamp Output, Safety Power Window Sunroof Enable, SAHLS Actuator 20%, SAHLS Actuator 80%, Security LED, ShortTermLoad Cut Relay/IPS Output, Solenoid Thermal Expansion Valve - Close, Solenoid Thermal Expansion Valve - Open, SSB illumination Output (Power and GND), Start Inhibit Relay (Option), Start Inhibit Relay, Start Relay, Static Bending LH Output (Option), Static Bending RH Output (Option), Steering Warmer Output, Steering Warmer Switch Indicator Output, Stop Lamp Left, Stop Lamp Left/Right/HMSL Output (Option), Stop Lamp Right, Storage Bos Lid Release Relay Output, Sunroof Enable Output, SVM + DRVM(Driving Rear View Monitor), SVM + FrontLeft + FrontRight View, SVM + RearLeft + RearRight View, System Identification, Tail Lamp Relay, Tailgate/Trunk Release Relay, TCI Bypass Valve(Turbo Only), TCS Valve-Left Front, TCS Valve-Right Front, Turn LH Output, Turn RH Output, Turn Signal Lamp Front Left Output, Turn Signal Lamp Front Right Output, Turn Signal Lamp Rear Left Output, Turn Signal Lamp Rear Right Output, Turn Signal Sound Output, Vacuum Pump (ELCM), Variable Force Solinoid Valve - Exhaust Bank1 test, Variable Force Solinoid Valve - Intake Bank1 test, Variable Intake Solenoid(Option), VCM Motor (Option), VESS Sound Play (5 Sec), VESS Sound Play (Until Stop Command), Warm Bypass door, Window Lock Indicator, Window Lock to Driver Door Module, Wiper High-Speed Relay [Wiper High RLY With Wiper Power RLY], Wiper Low-Speed Relay [Wiper Low RLY With Wiper Power RLY], Wiper Power Relay, Wiper Relay (for INT)[Wiper RLY With Wiper Power RLY]

Kia Coverage

12 new Adjustment type special tests:

Adaptive Value Backup Input (ECU Transfer Assy replacement at once), Adaptive Value BackUp Input (ECU replacement), Air Bleeding Mode, Auto Detected Configuration Reset, Clutch Learning Reset, Reset Adaptive Values, Seat Limit Position Setting, Steering Limit Position Setting, Vehicle Name Writing, WCT Reprogram, Wheel Sensor ID Writing, Write VIN

409 new Actuation type special tests:

(LED) DRL Lamp LH, (LED) DRL Lamp RH, 3LH SBR Left Indicator, 3RH SBR Center Indicator, A/C Compressor Test (ECV Type), A-C Compressor Relay, Actuator Control - Apply, Actuator Control - Release, All Door Lock Signal Output(to PTGM), All Mood Lamp Blue LED Test, All Mood Lamp Green LED Test, All Mood Lamp Red LED Test, All Mood Lamp White LED Test, Assist Door Courtesy Lamp Output, Assist Door Lock Indicator, Assist Mirror Position Down, Assist Mirror Position Left, Assist Mirror Position Right, Assist Mirror Position Up, Assist Outside Mirror Down, Assist Outside Mirror Left, Assist Outside Mirror Right, Assist Outside Mirror Up, Assist Power Winodow Down (Option), Assist Power Winodow Up (Option), Assist Seat Belt Indicator, ATM Solenoid, Auto Cut Relay, Auto Light

Power, Auxiliary Fuel Injector for Flexible fuel, Auxiliary Fuel Pump for Flexible fuel, AV Tail, Back Up Lamp, BCM Internal Buzzer Output, Bifunction Headlamp High LH Solenoid IPS Output, Bifunction Headlamp High RH Solenoid IPS Output, Burglar Horn Relay, Canister Purge Valve, Canister Shut Off Valve Clocked(OBD-2 Only), Canister Shut Off Valve(OBD-2 Only), Central Door Lock Indicator, Central Door Lock Relay, Central Door Lock Switch Indicator Output, Central Door Unlock Relay, Chageover Valve, Charge Inlet Lock Relay, Charge Inlet Unock Relay, Charging Status LED (Green) On, Charging Status LED (Yellow) On, Child Lock Relay Output, Child Unlock Relay Output, Compressor Off, Compressor On, Console Mode Door - Vent, Console On Door, Console Temperature Air Mix Door 0%, Console Temperature Air Mix Door 100%, Console Temperature Air Mix Door 50%, Coolant 3Way Valve, Cooling Fan PWM, Cornering Lamp LH Output, Cornering Lamp RH Output, Courtesy Lamp RL Output, Courtesy Lamp RR Output, Cruise Control Main Lamp(Optional), Cruise Control SET Lamp(Optional), D_DRL Relay, Dead Lock Relay, Dedicated DRL Left Output, Dedicated DRL Output (Option), Dedicated DRL Right Output, Def Door - Close, Def Door - Open, Defogger - Deicer Relay, Defogger / Deicer Relay, Door Lock Relay, Door Unlock Relay, Door Unlock Signal, Drive Side Puddle Lamp, Driver Air Mix Door-100%, Driver Air Mix Door-50%, Driver Courtesy Lamp, Driver Door Courtesy Lamp Output, Driver Door Lock, Driver Door Unlock Relay (Option), Driver Door Unlock Relay, Driver Door Unlock, Driver Heater Control, Driver Mode Door-DEF., Driver Mode Door-Floor, Driver Mode Door-Vent, Driver Rear Door Courtesy Light, Driver Seat Belt Indicator, Driver Seat Heat Mode to the High, Driver Seat Vent Mode to the High, DRL Relay(Canada), DRV-AST Power Window Enable Output, Electric Shuttle Valve-Left Front, Electric Shuttle Valve-Right Front, Electrically Controlled Water Pump, Electronic Waste Gate Valve (Turbo Only), Electronically Controlled Water Pump(CWP), Engine Check Lamp(MIL), ETC Motor, Europe Cornering Lamp Left Relay Output, Europe Cornering Lamp Right Relay Output, EVAP Leakage Test, Exhaust Flap(EF), Exhaust Gas Recirculation Valve, Exterior Tail Lamp Left(FrontRear) Output, Exterior Tail Lamp Right(FrontRear) Output, External Buzzer Output, Fan Motor Control-High Speed, Fan Motor Control-Low Speed, Flasher Sound Relay(Optional), Folding Mirror Relay, Foot Lamp Output(Optional), Foot Lamp Output, Front Air Flow Door - 100%, Front Air Flow Door - 50%, Front Blower Fan Motor-1Step, Front Blower Fan Motor-2Step, Front Blower Fan Motor-3Step, Front Blower Fan Motor-4Step, Front Blower Fan Motor-5Step, Front Blower Fan Motor-6Step, Front Blower Fan Motor-7Step, Front Blower Fan Motor-8Step, Front Blower Fan Motor-Off, Front Charge Door Lamp Output, Front Deicer Relay, Front Fog Cornering Lamp Left Output, Front Fog Cornering Lamp Right Output, Front Fog Lamp Indicator, Front Fog Lamp Left Output, Front Fog Lamp Output, Front Fog Lamp Relay, Front Fog Lamp Right Output, Front Glass Heated Relay Output, Front Glass Heated Switch Indicator Output, Front Heated Glass Relay, Front Seat Heat Mode to the High, Front Seat Vent Mode to the High, Front Top-SVM View, Front Turn Signal Lamp Activation LH Output, Front Turn Signal Lamp Activation RH Output, Front Washer Motor Output, Front-SVM View, Fuel Pressure Indicator Lamp(LPI), Fuel Pressure Ragulator (GDI Only), Fuel Pump Control, Fuel Pump Relay, Fuel Tank Isolation Valve, Gauge ON, Glove Box Lamp Output, Haptic Steering Wheel Motor Output, Haptic Steering Wheel Output, Hazard Indicator, Hazard Relay, Head Lamp High Indicator, Head Lamp High Left Output, Head Lamp High Output, Head Lamp High Relay, Head Lamp High Right Output, Head Lamp Leveling Min(Low) Position, Head Lamp Low Indicator, Head Lamp Low Left Output, Head Lamp Low Output, Head Lamp Low Right Output, Head Lamp Low Signal, Head Lamp Washer Relay, Heated Handle Indicator, Heated Handle Output, Heated Washer Nozzle Output, Heated Washer Nozzle Relay, HICM Activate Diagnostics, HICM Relay, High Mounted Stop Lamp Output, HMI Mirror Alert Left LED Blinking, HMI Mirror Alert Left LED ON, HMI Mirror Alert Right LED Blinking, HMI Mirror Alert Right LED ON, HMI Switch LED, Horn Relay(NA), Horn Relay, HV PTC OFF, HV PTC ON(Min.), Ignition 3 Relay, Ignition Coil Enable-Disable-#1, Ignition Coil Enable-Disable-#2, Ignition Coil Enable-Disable-#3, Ignition Coil Enable-Disable-#4, Ignition Coil Enable-Disable-#5, Ignition Coil Enable-Disable-#6, Ignition Coil Enable-Disable-#7, Ignition Coil Enable-Disable-#8, Illumination, Immobilizer Lamp(Optional), Indicator ALL OFF, Indicator ALL ON, Indicator Output 100%, Indicator Output 25%, Injector Disable-Cylinder 1,

Injector Disable-Cylinder 2, Injector Disable-Cylinder 3, Injector Disable-Cylinder 4, Injector Disable-Cylinder 5, Injector Disable-Cylinder 6, Injector Disable-Cylinder 7, Injector Disable-Cylinder 8, Inlet Valve-Left Front, Inlet Valve-Left Rear, Inlet Valve-Right Front, Inlet Valve-Right Rear, Intake Door - Fresh, Intake Door - Recirc, Interior Lamp Autocut Relay Output(Option), Interior Mood Lamp Output, IOD Relay, ISG Test(Option), Key Hole Illumination, Key Interlock Solenoid(Manual Key Type), Lamp Control, Lamp Load Power Relay, LampLoad AutoCut IPS Output, LongTermLoad Cut Relay Output, Luggage Lamp Relay, Luggage Lamp, Main Relay, Manual HLLD Signal Output, MAP Lamp, Mirror Folding Operation (Option), Mirror Unfolding Operation (Option), Mood Lamp 1 Output, Mood Lamp 2 Output, Mood Lamp 3 Output, Mood Lamp Output, Motor, Move ASSIST OUTSIDE MIRROR to the highest Position, Move ASSIST OUTSIDE MIRROR to the lowest Position, Move ASSIST OUTSIDE MIRROR to the most left Position, Move ASSIST OUTSIDE MIRROR to the most right Position, Move DRIVE OUTSIDE MIRROR to the highest position, Move DRIVE OUTSIDE MIRROR to the lowest position, Move DRIVE OUTSIDE MIRROR to the most left position, Move DRIVE OUTSIDE MIRROR to the most right position, Move P/SEAT to the Foremost Position(Cushion Extension), Move P/Seat To The Foremost Position(Recline), Move P/Seat To The Foremost Position(Slide), Move P/Seat To The Highest Position(FR Height), Move P/SEAT to the Highest Position(Head Rest), Move P/Seat To The Highest Position(RR Height), Move P/SEAT to the Last Position(Cushion Extension), Move P/Seat To The Last Position(Recline), Move P/Seat To The Last Position(SILDE), Move P/Seat To The Lowest Position(FR Height), Move P/SEAT to the Lowest Position(Head Rest), Move P/Seat To The Lowest Position(RR Height), Move P-Seat to the Foremost Position (Head Rest Slide), Move P-Seat to the Foremost Position(Shoulder), Move P-Seat to the Last Position (HeadRest Slide), Move P-Seat to the Last Position(Shoulder), Move Steering Column At The Longest Position (Tele), Move Steering Column At The Shortest Position (Tele), Move Steering Column To The Highest Position (Tilt), Move Steering Column To The Lowest Position (Tilt), Multimedia Load Power Relay, Navi Wakeup Signal Output, O2 Heater Front (B1-S1), O2 Heater Front (B2-S1), O2 Heater Rear (B1-S2), O2 Heater Rear (B2-S2), OBC Wake up Output, Oil Change Warning Lamp, Oil Control Valve - Exhaust Bank 1(Option), Oil Control Valve - Exhaust Bank2, Oil Control Valve - Intake Bank1, Oil Control Valve - Intake Bank2, Operate DRIVE SIDE FOLD, Operate DRIVE SIDE UNFOLD, Operate DRIVE SIDE WINDOW AUTO DOWN, Operate DRIVE SIDE WINDOW AUTO UP, Operate DRIVE SIDE WINDOW DOWN, Operate DRIVE SIDE WINDOW UP, Optional Rear Seat Warmer - Left, Optional Rear Seat Warmer - Right, Outlet Valve-Left Front, Outlet Valve-Left Rear, Outlet Valve-Right Front, Outlet Valve-Right Rear, Over Speed Warning Indicator, Parasitic Current Auto-Block IPS, Parking Brake Indicator, PAS Indicator/RPAS OFF Indicator, PAS/RPAS Buzzer Output, Passenger Air Mix Door-0%, Passenger Air Mix Door-100%, Passenger Air Mix Door-50%, Passenger Mode Door - Defog, Passenger Mode Door - Floor, Passenger Mode Door - Vent, Passenger Seat Heat Mode to the High, Passenger Seat Vent Mode to the High, Pocket Light Output(Option), Power Window Relay, Puddle Lamp Output, Read VIN, Rear Assist Side Door Curtain Down(Only Windows Close Status), Rear Assist Side Door Curtain Up(Only Windows Close Status), Rear Assist Side Window Auto Up, Rear Assist Window Auto Down, Rear Assist Window Down, Rear Charge Door Lamp Output, Rear Curtain DN Output, Rear Curtain Up Output, Rear Defogger Relay, Rear Driver Side Door Curtain Down(Only Windows Close Status), Rear Driver Side Door Curtain Up(Only Windows Close Status), Rear Driver Side Window Auto Up, Rear Driver Window Auto Down, Rear Driver Window Down, Rear Driver Window Up, Rear Fog Lamp (Option), Rear Fog Lamp Indicator, Rear Fog Lamp Left Output, Rear Fog Lamp Relay, Rear Fog Lamp Right Output, Rear Left Power Window Down (Option), Rear Left Power Window Up (Option), Rear LH Seat Heat Mode to the High, Rear LH Seat Vent Mode to the High, Rear Mood Lamp(Both Left and Right), Rear Pocket Lamp(Both Left and Right), Rear Power Window Enable Output (Option), Rear Power Window LH Up Relay, Rear RH Seat Heat Mode to the High, Rear RH Seat Vent Mode to the High, Rear Right Power Window Down (Option), Rear Right Power Window Up (Option), Rear Room Lamp Output, Rear Seat Belt Center Indicator, Rear Seat Belt Left Indicator, Rear Seat Belt Right Indicator, Rear Seat Heat Mode to the High, Rear Seat Vent Mode to

the High, Rear Top-SVM View, Rear View Switch Indicator Output, Rear Washer Motor, Rear Wiper Relay (Option), Rear Wiper Relay, Rear-SVM View, Refrigerant 2Way Valve - #1 OFF, Refrigerant 2Way Valve - #1 ON, Refrigerant 2Way Valve - #2 OFF, Refrigerant 2Way Valve - #2 ON, Refrigerant 3Way Valve - #1 OFF, Refrigerant 3Way Valve - #1 ON, Refrigerant 3Way Valve - #2 OFF, Refrigerant 3Way Valve - #2 ON, RKE Tailgate Signal Output(to PTGM), RL Door Lock Relay, RL Door Unlock Relay, Room Lamp Output, RPAS Switch Indicator (Option), Safety Power Window Enable, SBL Function Test SBL LH ON, Security LED Output, ShortTermLoad Cut Relay-IPS Output, Start Inhibit Relay (Option), Start Inhibit Relay, Static Bending LH Output (Option), Static Bending LH Output, Static Bending RH Output (Option), Static Bending RH Output, Steering Warmer Output, Steering Warmer Switch Indicator Output, Stop Lamp Left, Stop Lamp Left-Right-HMSL Output (Option), Stop Lamp Right, Stop Lamp, Sunroof Enable Output, SunRoof Power Relay control, SVM + FrontLeft + FrontRight View, SVM + RearLeft + RearRight View, System Identification, Tail Interior Lamp, Tail Lamp Indicator, Tail Lamp Output, Tail Lamp Relay, Tailgate/Trunk Release Relay, Tailgate-Trunk Release Relay, TCI Bypass Valve(Turbo Only), TCS Valve-Left Front, TCS Valve-Right Front, Turn LH Output, Turn RH Output, Turn Signal Lamp Front Left Output, Turn Signal Lamp Front Right Output, Turn Signal Lamp Rear Left Output, Turn Signal Lamp Rear Right Output, Unfold Mirrors, Vacuum Pump (ELCM), Variable Intake Solenoid(Option), VCM Motor (Option), Window Lock to Driver Door Module, Wiper High Relay, Wiper Low Relay, Wiper Power Relay, Wiper Relay

Nissan/Infiniti Coverage

21 new Adjustment type special tests:

ALC Setting, Blind Spot Detection Configuration, Blind Spot Detection Shut-Off Requester Test, CLUTCH SENSOR RESET, Fine Adjustment Front View Camera Top View, Fine adjustment of DS camera, top view, Fine adjustment of PAS camera, top view, Fine Adjustment Reversing Camera Top View, Finish Brake Pad Replacement, Front Camera Guidelines Correction, G Sensor Calibration, Gas Sensor Adjustment, Initialization Position Adjustment, Lane Dep.Warning Camera Shut-Off Requ.Test, Lane Departure Warning Camera Configuration, Pressure Sensor Initialization, Reset Adaption To Factory Setting, Reversing Camera Guidelines Correction, Start Brake Pad Replacement, Steering Angle Initialization, System Mode Change

70 new Actuation type special tests:

AEB Disp, Air Pump, Air/Liquid Pump Of Camera, ALC Disp, ALC Level, ALL INDICATORS DRIVE, All Shock Absorber, ARC Disp 2, ARC Disp, ARC operation indication, ATC 1 Disp, ATC 2 Disp, ATC 3 Disp, ATC 4 Disp, ATC 5 Disp, Automatic Brake Hold Lamp Active, Automatic Brake Hold SW Lamp Active, Brake Actuator 1 Mode 1, Brake Actuator 1 Mode 2, Brake Actuator 1 Mode 3, Brake Actuator 2 Mode 1, Brake Actuator 2 Mode 2, Brake Actuator 2 Mode 3, Brake Actuator 3 Mode 1, Brake Actuator 3 Mode 2, Brake Actuator 3 Mode 3, Brake Hold Disp, Brake Hold Display, Brake Release, BSW-BSI INDICATOR DRIVE, Command St Whl Forc, Command Steering Angle, Door Mirror LED LH, Door Mirror LED RH, ESS Active, ESS Relay Active, External Buzzer, FL Shock Absorber, FL Tire Disp, FR Shock Absorber, FR Tire Disp, HDC DISP, HDC Display, Indicator, Interrupt Disp, Lane Departure Warning Display, LED LH INDICATOR, Left Exterior Mirror LED Test, Master Warning Active, Outside Air Temperature Diagnosis, Parking Brake Full Release, RCTA-BSW Indicator, READY Indicator Lamp, Right Exterior Mirror LED Test, RL Shock Absorber, RL Tire Disp, RR Shock Absorber, RR Tire Disp, Stop Lamp Off Relay 1 Active, Stop Lamp Off Relay 2 Active, Stop Lamp ON Relay Active, Turn Disp, Turn display (LH), Turn display (RH), Vehicle Disp, VMC left turning operation indication, VMC Right turning operation indication, Warning Buzzer, Washer Fluid Pump Relay, Yellow Lane Dep.Warng.Indic. Lamp

Toyota/Lexus Coverage

8 new Actuation type special tests:

Cylinder Balance 1, Cylinder Balance 2, Cylinder Balance 3, Cylinder Balance 4, Cylinder Balance 5, Cylinder Balance 6, Cylinder Balance 7, Cylinder Balance 8

New Coverage – USA European

Audi Coverage

- Added coverage for 279 new system applications

757 new special tests:

A/C compressor adaptation, A/C operating/display unit: Automatic addressing, ACC button LED, Acc. ped. double imp. generation, Activate all LEDs, Activate antenna 1, Activate antenna 2, Activate antenna 3, Activate anti-theft alarm, Activate component protection, Activate energy saving mode, Activate gateway control unit transport mode, Activate Park Distance Control, Activate parking brake after pad replacement, Activate parking lock, Activate remote control, Activate selector lever lock, Activate TV stand.country setting, Activation tone adjustment, Active accelerator pedal activation, Active head restraints, Active steering control unit: Reset learning values, Actuation of all components <Radiator fan>, Actuation of all control motors, Actuator/structure-borne noise, Adapting of control motors, Additional heater glow plug: Reset adaptation values, Additional indicator lamp panel, Additional interior lighting, Additional turn signal indicator, Adjust mirror downward, Adjust mirror inward, Adjust mirror upward, Adjustment, Air conditioner control motors: Adapting, Air conditioner control motors: Automatic addressing, Air distribution control mot: front, Air flap range/tolerance limits, Air recirculation flap control motor, Air supplementary heating, Air volume/distribut. display time adjustment, Airbag crash signal Rest of World, Airbag crash signal US version, Airbag indicator light OFF, Air-conditioning system: Adadption after replacing perfume bottle 1, Air-conditioning system: Adadption after replacing perfume bottle 2, Alarm horn, All segment matrix headlights le., All segment matrix headlights ri., Allocate control motors, Alternator test 15.0 V, Alternator: Functional test, Ambient light: Channel 1, Analog clock, Analogue display test, Anti-theft alarm siren/horn, Anti-theft device, ASR/ESP control lamp, Audio reduction adjustment, Auto-Hold indicator lamp, Autom. transm. adaptation values adapt., Automatic start/stop button control lamp, Automatic transmission oil level check, Auxiliary coolant pump, Auxiliary coolant pump HT circuit, Auxiliary coolant pump LT circuit, Average consumption display correction, Background illumination, Backrest adjustment, Backup lamp, Basic setting, Battery (12V): Checking of components <Battery cells>, Battery (high-voltage): Battery state test (State of Health), Battery (high-voltage): Readout of the current capacity, Battery adaptation, Battery sensor reset, Battery separation relay, Belt comfort fit actuator, Bi-xenon screen, Black test pattern, Bleed, Bleed fuel system, Blinker, Blue test pattern, Boost pressure actuator: Adapting, Boost pressure control valve, Boost pressure solenoid valve, Brake light, Brake pedal position sensor test, Braking mode, Button LED blue, Button LED cyan, Button LED green, Button LED magenta, Button LED red, Button LED white, Button LED yellow, Calibrate parking brake, Camshaft drive timing chain: Reset adaptation values, CAN data bus: Write configuration, CD/DVD ejection, Center vent trim, Central locking, Central locking system locking unit, Rear lid, Central locking system: close, Central locking system: open, Central locking: Remote control, Check link with server, Child safety lock, Circulating pump, Clean clutch, Close clutch, Close load compartment cover, Close sun blind, Closed circuit relay, Clutch actuator: Adapting, Clutch: Reset adaptation values, CM HUD vertical deflection mirror, Combustion air blower, Compass display, Compressor (Driver side multi-contour seat),

Compressor (Passenger side multi-contour seat), Continued engine operation circuit, Control lamp (Parking assistant _), Control lamps, Control unit box fan motor, Control unit output terminal 30, Control unit: Request access authorisation, Convert. top compart. well motor, Convert. top compart.mot.fastener, Convertible top flap motor, Convertible top indicator lamp, Convertible top locking motor, Convertible top motor, Convertible top solenoid valve 1, Convertible top solenoid valve 2, Convertible top solenoid valve 3, Convertible top solenoid valve 4, Convertible top solenoid valve 5, Convertible top solenoid valve 6, Coolant circuit thermostat: Adapting, Coolant circulation pump, Coolant circulation pump 4, Coolant pump 2, Coolant pump 3, Coolant pump switching valve, Coolant pump, charge-air cooler, Coolant shutoff valve, Coolant shut-off valve 2, Coolant shut-off valve 3, Cooling system: Bleeding, Cooling system: Filling, Corner lamps, Country version encoding, Crankcase breather preheating, Crankcase ventilation solenoid valve, Crankshaft trigger wheel: Adapting, Crash signal, Crash signal/all belt tensioners, Cruise control indicator lamp, CU output terminal 30 controlled, Cup holder ambient light, Cylinder head coolant valve, Dash panel flap, Daytime driving light, Daytime driving light actuation, Deactivate gateway ctrl. unit transport mode, Deactivate parking brake for pad replacement, Deactivate parking lock, Deactivate selector lever lock, Def. left matrix headlamp segment, Def. rght.matrix headlamp segment, Defrost flap control motor, Defroster flap control motor, Dipped beam, Dipped beam actuation, Disable all LEDs, Disconnect coupler, Display 1, Display 2, Display illumination, Display: Road sign display, Display: Test, Door handle control ON, Door interior handle illumination, Door power latching system, Drain fuel tank, Driver side door light actuation, Driver side mirror adjustment, Driver side multi-contour seat: Functional test, Driver warning pedestrian prot., Driving program switch, Driving school acoustic warning, Driving school rem.ctrl.indic.LED, DS window-lifter motor: Close, DS window-lifter motor: Opening, Dynamic cornering light, Dynamic flashing, El. power st. st. wheel angle sens. adapt., Electric fuel pump, Electric fuel pump adaptation, Electric power steering: Configuring, Electric power steering: Encoding, Electric rear axle steering: Activate/deactivate roller dynamometer mode, Electric rear axle steering: Activate/deactivate the locking of the centre position, Emblem camera, Emergency call system: Functional test, Emergency call system: Loudspeaker, Emergency call system: Manual emergency call, Engine component relay, Engine control unit: Activate/deactivate increased engine oil pressure for engine break-in, Engine control unit: Reset misfiring counter, Engine control unit: Reset self-ignition counter, Engine management adaptation values reset, Engine suspension
solenoid valve, left, Engine suspension
solenoid valve, right, EPB: Apply brake pad, EPB: Brake pad approach, EPB: Close brakes, EPB: Open both brakes, EPB: Open left brake, EPB: Open right brake, EPB: Short closing pulse left, EPB: Short closing pulse right, ESP test, Exh. gas turbocharger control motor adap., Exhaust camshaft timing bank 1, Exhaust camshaft timing bank 2, Exhaust flap, Exhaust flap Bank 2, Exhaust gas flap control module 1: Adapting, Exhaust gas flap control module 2: Adapting, Exhaust gas turbocharger bypass valve 1, Exhaust gas turbocharger bypass valve 2, Extend mirror, Extend trailer coupling, Extension module, Exterior lighting, External noise actuator, External noise volume adjustment, Fan Control, Fixed service interval adjustment, Flame monitor/glow element unit, Flexible service interval adjustment, Footrest adjustment, Footwell lamps, Forced change-up adjustment, Fragrance atomiser control motor, Fragrance atomiser control motor: Adapting, Fragrance blower motor, Fresh-air blower, Fresh-air flap control motor, Front acoustic signal frequency, Front acoustic signal volume, Front central locking Lock, Front central locking SAFE, Front central locking Unlock, Front centre console ambient light 1, Front door light, Front driver assistant cam. static adaptation, Front driver side door ambient light: Contour lighting, Front DS door trim ambient light., Front flashing light actuation, Front footwell lighting, Front fresh air blower, Front left air spring valve, Front left damper solenoid valve, Front left fog headlight, Front left radar sensor: Static setting, Front left short-range radar sensor: Static adaptation, Front left turn signal indicator bulb 2, RL turn signal ind. 2 bulb, Front long-range LIDAR: Cleaning request, Front long-range LIDAR: Static adaptation, Front long-range night view camera: Reset to factory settings, Front long-range night view camera: Static adaptation,

Front long-range night view camera: Transfer configuration, Front parking aid warning buzzer, Front parking assist. loudspeaker, Front passenger side door ambient light: Contour lighting, Front PS door trim ambient light., Front radar sensor static setting, Front right air spring valve, Front right damper solenoid valve, Front right fog headlight, Front right radar sensor: Static setting, Front right short-range radar sensor: Static adaptation, Front right turn signal indicator bulb 2, RR turn signal indicator 2 bulb, Front surrndg.area cam.test image, Front windscreen washer pump, Front window lifter: Lift, Front window lifter: Lower, Front-passenger airbag indicator lamp, Fuel evaporation
Regenerative valve 2, Fuel metering pump, Fuel pre-heating, Fuel pressure reduction, Fuel quantity control valve, Fuel quantity control valve 2, Fuel tank breather valve, Function kink angle sensor, Function light 1, Function light 2, Gasoline particulate filter regeneration: Static, Gasoline particulate filter: Resetting, Gasoline particulate filter: Write configuration, Gateway: Check no-load current, Gateway: Configure pause recommendation, Generate readiness code, Glow plug system, Gong, Gradual rear lid closing, Gradual rear lid opening, Green test pattern, Green/blue indicator lamp, Haz.warn. lights on emer.braking, Hazard warning system lamp, HDC info lamp, Head restraint adjustm. to front, Head restraint adjustment, Head restraint adjustment: Up, Headlamp fan actuation, Headlamp position vertical bottom, Headlamp position vertical centre, Headlamp position vertical top, Headlamp setting, Headlight range control, Headlight washer system, Head-up display self-test, Heated rear window, Heated steering wheel_, Heated windshield camera area, Heating, Heating pump actuation, High-side channel actuation, High-voltage charging timer and high-voltage charging profile data: Reset to factory settings, Hold mode indicator lamp, HV battery cell evaluation, HV charging connection: Reset the number of charging cable mating cycles, Hydraulic fluid pump relay, Hydraulic fluid pump relay 2, Ignition key removal lock, Ignition lock: Check locking, Individ. matrix headlamp segment, Indoor fragrance atomiser: Scent 1, Indoor fragrance atomiser: Scent 2, Injector reset, Injectors: Test, Inlet camshaft timing bank 1, Inlet camshaft timing bank 2, Instrument cluster: Contour lighting, Intake manifold flap control unit: Adapting, Interconnect. of all microphones, Interior and function lighting, Interior rear light, Interval display service: Resetting, Kerb parking distance adjustment, Keyless antennas: Access/start authorization, Lane keep.assist: Warning LED off, Lane keep.assist: Warning LED on, Lane keeping assist display, Le. dayt.driv./side light LED power mod., Learn backrest end stop, LED channel 1 actuation, LED channel 2 actuation, LED channel 3 actuation, LED dimming interior mirror, LED headlamp fan motor 1: Actuation, LED headlamps: High-side channel 1, LED headlamps: High-side channel 2, LED headlamps: High-side channel 3, LED headlamps: High-side channel 4, LED wiper switch, Left air mix flap, Left B-pillar shut-off flap, Left B-pillar/footwell
shutoff flap control motor, Left center vent control motor, Left cornering light: Dimming, Left daytime driving light, Left daytime driving light bulb 2, Left daytime driving/side light, Left exhaust flap control motor, Left footw.temp.flap CM actuat., Left footwell flap control motor, Left head area heating, Left LED headlamp power module: Resetting, Left main beam, Left main beam screen, Left outer brake light, Left rear light, Left side light/dayt. driv. light bulb 2, Left side light: 1, Left side light: 2, Left side vent CM, Left side vent control motor, Left side-mounted turn signal indicator, Left stat.crng.light act. 100%, Left temperature flaps servomotor, Left trailer side light lamp, Left trailer stop lamp, Left trailer turn signal indicator, Left transmission mounting valve, Left turn signal indicator, Left vent trim, Left window defrost flap control motor, Lift sunroof, Lifting magnet: selector lever lock, Load compartment cover basic setting, Load compartment light, Loudspeaker test, Luggage compartment cover adaptation, Lumbar support height adjustment, Lumbar support longit. adjustment, Main beam, Main beam assist. indicator lamp, Main beam assistant, Map-controlled cooling thermostat, Matrix headlamp reference segment, Mechanical system display unit 1, Menu-driven configuration, Microph. signal via audio output, Microphone test, Mileage data adjustment, Mirror adjustment motor, Mirror adjustment To left, Mirror adjustment To right, Mirror heating, Move left headlamp horizontally, Move left headlamp vertically, Move right headlamp horizontally, Move right headlamp vertically, Multi-contour seat compressor, Multifunction output 1, Multifunction output 2, Multi-function strng. wheel

ill., Multimedia operating unit: Contour lighting, Mute entertainment, Neutral position sensor: Adapting, No-load current test, Number plate light, Oil pressure regulating valve, Open clutch, Open load compartment cover, Open sun blind, Open the rear lid, Operating unit illumination, Park Distance Control switch LED, Parking aid button, (Control lamp): Actuation, Parking aid deactivation speed, Parking aid, Loudspeaker, Parking aid: Activation, Parking brake indicator lamp, Parking light_, Parking steering assistant control lamp, Parking steering assistant cut-in speed adj., Passenger compartment lighting_, Passenger side multi-contour seat: Functional test, Passenger side rear window lifter, Pause display, Piston cooling nozzle solenoid valve, Power door latching sys.actuation, Power flow interrup. when stationary adjustm., Power supply with exh.disch.prot., Power supply, terminal 15, Prefeed pump, Pressure accum./compressor test, Pressure accumulator valve, Pressure accumulator: Bleeding, Programming, trailer coupling, PS window-lifter motor: Close, PS window-lifter motor: Opening, Pulse-wheel test, Radiator blind, Radiator blind adaptation, Radiator fan motor 1, Radiator fan motor 2, Rain/light sensor: Write configuration, Re. temp. door positioning motor, Reading lights, Rear acoustic signal frequency, Rear acoustic signal volume, Rear air distr. flap contr. motor, Rear air recirculat. flap control motor, Rear air volume control motor, Rear air volume flap
control motor, Rear axle differential lock: Adaptation of the component <Multi-function sensor>, Rear axle differential lock: Fill the fuel <Differential gearbox oil>, Rear central locking Lock, Rear central locking SAFE, Rear central locking Unlock, Rear door light, Rear dr.side PW: Closing signal, Rear dr.side PW: Open signal, Rear driver side door ambient light: Contour lighting, Rear DS door trim ambient light., Rear flashing light actuation, Rear fog light, Rear footwell lights, Rear fresh air blower, Rear indicator lamp, Rear left air distribution
control motor, Rear left air spring valve, Rear left backrest heating, Rear left damper solenoid valve, Rear left seat heating, Rear left seat ventilation, Rear left short-range radar sensors: Write configuration, Rear left sun blind, Rear left vent control motor, Rear lid adaptation, Rear lid basic setting, Rear lid power latching system, Rear lid: Close, Rear parking assist. loudspeaker, Rear pass.side PW: Closing signal, Rear pass.side PW: Open signal, Rear passenger side door ambient light: Contour lighting, Rear PS door trim ambient light., Rear radar sensor: Transfer configuration, Rear right air distribution
control motor, Rear right air spring valve, Rear right backrest heating, Rear right damper solenoid valve, Rear right seat heating, Rear right seat ventilation, Rear right short-range radar sensors: Write configuration, Rear right vent control motor, Rear short-range camera: Static adaptation, Rear short-range camera: Transfer configuration, Rear short-range camera: Write configuration, Rear short-range radar sensors: Static adaptation, Rear short-range radar sensors: Write configuration, Rear side light, Rear spoiler, Rear temperature flap control motor, Rear window, Rear window lifter: Lift, Rear window lifter: Lower, Rear window roller blind motor, Rear window washer pump, Rear wiper, Rear-axle diff. lock system self-test, Rear-axle differential lock oil pump bleeding, Recirculated-air flap, Red indicator lamp, Red test pattern, Red warning lamp, Refrigerant circuit: Reset refrigerant loss detection counter, Refrigerant circuit: Service mode activation/deactivation, Refrigerant expansion valve 1: Actuation, Refrigerant expansion valve 2: Actuation, Refrigerant expansion valve 3: Actuation, Refrigerant shut-off valve, Refrigerant shut-off valve 2, Refrigerant shut-off valve 3, Refrigerant shut-off valve 4, Refrigerant shut-off valve 5, Reset adaptation parameters, Reset adaption to factory setting, Reset all counters, Reset control unit, Reset start/stop counter, Retract mirror, Retract trailer coupling, Reversing lamps, Ri. dayt.driv./side light LED power mod., Right air mix flap, Right B-pillar shut-off flap, Right B-pillar/footwell
shutoff flap control motor, Right center vent control motor, Right cornering light: Dimming, Right daytime driving light, Right daytime driving light bulb 2, Right daytime driving/side light, Right exhaust flap control motor, Right footw.temp.flap CM actuat., Right footwell flap control motor, Right footwell temp. flaps CM, Right head area heating, Right LED headlamp power module: Resetting, Right main beam, Right main beam screen, Right outer brake light, Right rear light, Right sd light/dayt. driv. light bulb 2, Right side light: 1, Right side light: 2, Right side vent CM, Right side vent control motor, Right side-mounted turn signal indicator, Right temperature flaps servomotor, Right trailer side light lamp, Right trailer stop lamp,

Right trailer turn signal indicator, Right transmission mounting valve, Right turn signal indicator, Right vent trim, Right window defrost flap control motor, Right/left-hand drive configuration, Roof marker light, Roof sign, Running gear control unit: Build up system pressure of the system <Air suspension>, Running gear control unit: Dissipate system pressure of the system <Air suspension>, Running gear control unit: Locking the system <Level control>, Running gear control unit: Pressure reduction/pressure build-up in the system <Air suspension>, Running gear control unit: Set suspension height, Running gear control unit: Setting the loading/transport mode, Running gear control unit: Unlocking the system <Level control>, Screen wiper motor: Adapting, Search illumination, Seat angle adjustment, Seat depth adjustment, Seat fore-and-aft adjustment, Seat heating, Seat heating power stage 2 to 1 reduct. time, Seat heating power stage 3 to 2 reduct. time, Seat height adjustment, front, Seat memory position 2, Seat position Normal, Seat ventilation, Segment test, Selector lever lock, Selector lever moved transversely, Servomotor for air flow flap,
left rear, Servomotor for air flow flap,
right rear, SHA: Dr.side mirror warng. LED on, SHA: Dr.side mirror warng.LED off, SHA: Instr.cluster warng. LED off, SHA: Instr.cluster warning LED on, SHA: Pass.side mirr. warng.LED on, SHA: Pass.side mirr.warng.LED off, SHA: Warning LED KI PASSIVE, Short-range cameras: Static adaptation, Short-range cameras: Transfer configuration, Short-range cameras: Write configuration, Side light, Side marker lamps, Side marker light, Side/daytime driving light LED module: Signature light, Side-marker lamp, left front, Side-marker lamp, right front, Single gear indicator adjustment, Soft-top motor 2, Sol. valve 2, boost-press. control, Special signal system, Start valid authentication, Start/stop button simulation, Start/stop function: Activate/deactivate temporarily, Starter generator: Functional test, Static cornering light, Static test, Steering column adjustment downwards, Steering column adjustment to front, Steering column adjustment to rear, Steering column adjustment upwards, Structure-borne noise volume adjustment, Sun roof adaptation, Sun roof: Close, Sun roof: Opening, Sun shade adaptation, Supplementary air heater
control unit, Supplementary heater circulating pump: Reset adaptation values, Supplementary heater: Adaptation of the component <remote control unit>, Supplementary heater: Adapting, Supplementary heater: Configuring, Supplementary heater: Encoding, Supplementary heater: Reset adaptation values, Supplementary heater: Reset starter interlock, Supplementary heater: Test, Suppress mirror glare, Switch between antennas, System functional test, System test valves + pump motor, Taillamps, Tank flap locking: Actuation, Tank flap release, Tank leakage diagnosis check valve, Tank leakage diagnosis pump, Tank shut-off valve, Taxi alarm, Teach force limitation, Temperature door positioning motor, Temperature flap CM footwell left, Test image cyan, Test image magenta, Test image yellow, Test pattern 1, Test pattern 2, Test pattern 3, Test pattern 4, Test pattern 5, Test screen, Throttle valve (Bank 1), Throttle valve (Bank 2), Throttle valve control unit 1: Adapting, Throttle valve control unit 2: Adapting, Throttle valve control unit adaptation, Tiptronic steering wheel button adjustment, Tone seq. switching (urban/rural), Tone seq.syst.activ.via horn act., Torque converter clutch, Trailer brake actuation output, Trailer brake control, Trailer brake lights, Trailer indicator lamp, Trailer rear fog light, Trailer reversing light, Trailer side light, Trailer socket power supply
Pin 10, Trailer socket power supply
Pin 9, Trailer warning light 2, Transfer A/C control unit configuration, Transfer configuration, Transfer el. power steering configuration, Transfer front driver assist. camera config., Transfer front ri. radar sensor configuration, Transfer rear left radar sensor configuration, Transfer rear ri. radar sensor configuration, Transmission coolant valve, Transmission oil cooler bypass valve, Transmission oil cooler valve, Transmission oil pressure accumulator: Pressure build-up, Transmission oil pressure accumulator: Pressure reduction, Transmission oil pump motor, Transmission setting adaption, Turn signal lamps, Two-way radio, Tyre pressure monitoring system self-test, Tyre pressure sensor adaptation, Unlock trailer coupling, Unlock. the top glove compartment, Valve 1 add. volume air spring, Valve 2 add. volume air spring, Valve 3 add. volume air spring, Valve 4 add. volume air spring, Vehicle conditioning, Vehicle length adjustment, Vehicle speed, Vehicle width adjustment, Vent control motor, rear left, Vent control motor, rear right, Video signal, Visual display adjustment, Voltage converter: Functional

test, Warning Message, Warning tone generator, Weapons box, Wheel circumference adjustment, White test pattern, Wind deflector control motor, Window lifter, Windscreen heater, Windscreen wiper, Windscreen wiper: Position, Windshield wiper heater element, Washer jet heater, Write configuration, Yellow lane keep.ass. indic. lamp, Yellow warning lamp

Fiat Coverage

15 new Actuation type special tests:

Air Bag Fail, Braking System Fail-Brake Fluid Low Level, Engine Misfire-EOBD(European On Board Diagnostic) Engine Fail, EPS Fail (Electric Power Steering), ESC Intervention-Fail, Excessive Engine Fluid Temperature, Fasten Seat Belt Indication, FCW (Front Collision Warning) OFF, Forward Collision Warning Permanent Fail, Front Fog Light ON, Fuel Reserve-Limited Range, High Beam On, Left Turn Light Indication, Position Light On-Follow Me Home-Light Parking, Right Turn Light Indication

Mercedes Benz Coverage

22 new Adjustment type special tests:

Adjust Idle Speed Gear, Adjust Idle Speed P/N, Calibration Of Steering Angle Sensor, Control Unit Reset, Correction Programming of Ignition, ECU Reset, Enabling Of Engine Start After Crash Event, Fuel Quantity Correction, Injector Coding - Quantity Adjustment, Injector Quantity Adjustment (8 Cyl), Reset Adaptation Parameters, Reset Control Unit, Resetting Of Adaptation Data, Resetting Reading Of Frequency Counter For Ethanol, Rotor Sensor Adaptation (Crank Learn), Steering Angle Initialization, Sun Roof Initialization, Teach In Of Throttle Valve Stop, Teach-in Of Drive Authorization System, Teach-in Process After Replacing The Combustion Engine, Teaching In the Ethanol Proportion In The Fuel, Throttle Valve Adaption

129 new Actuation type special test:

Activated Charcoal Shut-Off Valve, Activation Of Fuel Pump, Automatic Light Test, Back Light, Boost Pressure Positioner, Check Radiator Shutters Actuator, Compression Test, Defogger Control, Display Of Coding Data, Display Of CVN, Display of Model Check Number, Display Of SCN, Engine and AC Fan (with Common Powertrain Controller), Engine and AC Fan (without Common Powertrain Controller), Engine Oil Pump Valve, Engine Running Injector Kill Test, Evap Test (Purge and Seal), Front Left Reading Light, Front Right Reading Light, Fuel Pump, Inside Light DBE, Intake Manifold Resonance Flap Switchover Valve, Intake Manifold Selector Drum Switchover Valve, Interior Lamp, Interior Lamps, Left Inlet Camshaft Solenoid, Left Outlet Camshaft Solenoid, Mirror Lamps Of Sun Visors, Purge Control Valve, Reading Lamps, Rear Lamp, Right Inlet Camshaft Solenoid, Right Outlet Camshaft Solenoid, Steering Wheel Vibration Test, Sun Roof Function Test, Throttle Valve Actuator

Volkswagen Coverage

127 new Adjustment type special tests:

Adaptation (10) / Long Adaptation (0A), Adaptation Steering Wheel Heater, Basic Settings (04), Calibrate Steering Angle Sensor, Component Protection (Vehicle Identification Number), Confirmation Sound, Front Buzzer Frequency, Front Buzzer Volume, Log-in(11) Adaptation(10), Log-in(11) Basic Settings(04), Log-in(11) or Coding II(11), Menu-Driven Configuration, P A Debouncing Brake Gearbox Can, P A Limit Message Counter, P A Protocol Error Max, P Dimming Default Pwm, P K I Offset, P K I, P K P, P N Error P Locked, P Performance Lrh, P Pwm Lrh, P S NWDF Spg, P T Blinker Err Alarm Clock Hanging Off, P T Blinker Err Flashing Horn Hangs On, P T Blinker Err Gra Hangs Off, P T Blinker Err Gra Hangs On, P T Blinker Err Unplausible, P T Debounce Time Overvoltage, P T Debounce Time Undervoltage, P T Debouncing P Unplausible, P T Debouncing Ride, P T Detection Ride, P T Dimming

Caster, P T Err Plaus, P T Ezs Debounce, P T Ezs Err Unplausible, P T Fas Debounce, P T Gra Ea Error, P T Gra Lever Debounce, P T Gra Lever Err El Interruption, P T Gra Lever Err El Short Circuit, P T Gra Lever Err Gra Hangs Off, P T Gra Lever Err Gra Hangs On, P T Gra Lever Err Unplausible, P T Gra Tip, P T Horn Debounce, P T Horn Err Horn Hangs Off, P T Horn Err Horn Hangs On, P T Horn Err Note, P T Horn India Debounce, P T Indicator Gra Debounce, P T Limit V, P T Lin Err Kl15mfl Short Circuit Off, P T Lin Err Kl15mfl Short Circuit On, P T Lin Err Short Circuit, P T Lin Sleepframe Kl15 Off, P T Lrh Interruption Debounce, P T Lrh Regulator I Factor, P T Lrh Regulator I Offset, P T Lrh Regulator P Factor, P T Lrh Regulator Temp Request 1, P T Lrh Regulator Temp Request 2, P T Lrh Regulator Temp Request 3, P T Lrh Short Circuit Debounce, P T P Locks Debounce, P T P Locks Err El Short Circuit, P T P Locks Err Unplausible In Parking Position Off, P T P Locks Err Unplausible In Parking Position On, P T P Locks Err Unplausible Off, P T P Locks Err Unplausible On, P T Plaus Start, P T S Contact Caster, P T Start Delay Lin Kom, P T Target 0, P T Target 1, P T Target 2, P T Turn Signal Blocking Time, P T Turn Signal Debounce, P T Turn Signal Err El Break, P T Turn Signal Err El Short Circuit, P T Turn Signal Err Flashing Horn Hangs Off, P T Turn Signal Err High Beam Hangs Off, P T Turn Signal Err High Beam Hangs On, P T Turn Signal Err Wake-Up Contact On, P T Voltage Lower Threshold Funct, P T Voltage Lower Threshold, P T Voltage Upper Threshold Funct, P T Voltage Upper Threshold, P T Washing Front Bew, P T Wiper Debounce, P T Wiper Err El Interruption, P T Wiper Err El Short Circuit, P T Wiper Err Interval Poti Hangs Off, P T Wiper Err Interval Poti Hangs On, P T Wiper Err Mfa Hangs Ein, P T Wiper Err Mfa Hangs Off, P T Wiper Err Swipe Hangs Off, P T Wiper Err Swipe Hangs On, P T Wiper Err Unplausible, P T Wiper Err Washing Hangs Off, P T Wiper Err Washing Hangs On, P T Wiper Interval Debounce, P T Wiper Winter Position, P T Zss Err Interruption, P T Zss Err Short Circuit A, P T Zss Err Short Circuit Off, P Temp Steering Wheel Heating Off, P Time Temperature Static Lrh, P W Brightness Factor, P W Dimming Offset, P W Limit Detected Mfl Type, Rear Buzzer Frequency, Rear Buzzer Volume, Reset Factory Defaults, Security Access (16) Adaptation (10) / Long Adaptation (0A), Security Access(16) Basic Settings (04), Service Light Reset, Steering Angle Initialization, Steering Angle Sender - Reset Zero Point, Steering Angle Sender - Set Zero Point, Steering Angle Sensor Alignment, Steering Angle Sensor Calibration, Steering Angle Sensor, Steering Assistance Level Adjustment, Transfer Configuration, Write Configuration

18 new Actuation type special test:

Acc Button Led, Cruise Control Indicator Lamp Control Value, Cruise Control Indicator Lamp, Cruise Control Switch Illumination Bulb Control Value, Heated Steering Wheel Activation Control Value, Heated Steering Wheel, Heated Steering Wheel, Activation Control Value LRH, Heated Steering Wheel, Activation, Htd Str Wheel, Act Inp O-P Ctrl Parameter, Ign Ky Withdrawal Lock, Act VW Com Ctrl St, Ignition Key Removal Lock, Led Wiper Switch, Multifunction Steering Wheel, Dimming, Output Tests (03), Rear Window Wiper Switch Illumination Bulb Control Value, Steering Wheel Heating (2), Steering Wheel Heating, System Identification
