

# Bosch ADS Software Update – Mar 2025

## Ver 6.6

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

**Version 6.6** software includes model year **2025** and **2024** vehicle coverage and additional **ADAS** calibrations.

Over 10K new special tests and new system applications included in this update.

Software and coverage feature details provided in these release notes.



ADS X

ADS

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

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

- **Alfa Romeo** – Tonale
- **BMW** – 530i (G60), 530i xDrive (G60), 540i xDrive (G60), Alpina XB7 (G07), i4 (G26), i5 (G60), iX (I20), X2 (U10)
- **Fiat** – 500E
- **Jeep** – Wagoneer S
- **RAM** – ProMaster EV

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

- **Alfa Romeo** – Giulia, Stelvio, Tonale
- **Chrysler** – Pacifica, Voyager
- **Dodge** – Durango, Hornet
- **Fiat** – 500E
- **Infiniti** – QX50, QX55, QX60
- **Jeep** – Compass, Gladiator, Grand Cherokee, Grand Cherokee L, Grand Wagoneer, Grand Wagoneer L, Wagoneer, Wagoneer L, Wrangler
- **Nissan** – Altima, Ariya, Frontier, Leaf, Pathfinder, Sentra, Versa, Z
- **RAM** – 1500, 2500, 3500, ProMaster 1500, ProMaster 2500, ProMaster 3500, ProMaster EV
- **Subaru** – Solterra, WRX

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

- **2019-2025 Coverage:**
  - **Alfa Romeo** – MY2024-25 Tonale, MY25 Giulia, Stelvio
  - **BMW** – MY2024 BMW 530i (G60), MY2024 BMW i5 (G60), MY2024 BMW X2 (U10), MY2024 BMW 540i xDrive (G60), MY2024 BMW Alpina XB7 (G07), MY2023 BMW M440i Gran Coupe (G22/G23), MY2019 BMW 330i (F31/G20)
  - **Chevrolet** – MY2024 Equinox EV
  - **Chrysler** – MY2025 Pacifica, Voyager
  - **Dodge** – MY2023-2025 Hornet, MY2025 Durango
  - **Genesis** – MY2023-2024 G90
  - **Hyundai** – MY2024 Sante Fe Hybrid
  - **Jaguar** – MY2021-2022 E-Pace, F-Pace, F-Type, I-Pace, XF
  - **Jeep** – MY25 Compass, Gladiator, Grand Cherokee, Grand Cherokee L, Grand Wagoneer, Grand Wagoneer L, Wagoneer, Wagoneer L

- **Land Rover** – MY2021-2022 Discovery, Discovery Sport, MY22 Range Rover, MY21-22 Range Rover Evoque, Range Rover Sport, Range Rover Velar
- **Mazda** – MY2025 CX-30
- **Nissan** – MY2023-2024 Ariya, MY2023 Z, MY2025 Altima, Frontier, Leaf, Pathfinder, QX50, Sentra, Versa
- **Porsche** – MY2020-2024 911
- **RAM** – MY2025 1500, MY2024-2025 ProMaster EV
- **Toyota** – MY2025 Grand Highlander, Sienna

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

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

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## New Coverage Details – USA Domestic

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

- Added coverage for 899 new system applications

#### 207 new Adjustment type special tests:

ABS Bleed Brakes, ABS Initialization, ABSO Initialization, Active Grill Shutter Replaced, Actuator Calibration, AFLS Calibration, Auto Door Lock, Auto High Beam Demo Mode Test, Automated Bleed, Automatic Addressing, Back Lighting, Bleed Brake Procedure, Bleed Brakes, Brake Pedal Calibration, Brake Pedal Learn, Calibrate Liftgate, Calibration Routine, CAM Crank Relearn Routine, Change Country Code, Channel Output Test, Check PCM VIN, Clear All Learned Seat Parameters, Clear DEF Pump Learned Offset Values, Clear Engine Auto Restart Crank Counter, Clear Learning Value, Clear Misfire TLC, Clear Stored Accumulated Fuel Mass, Clear TPM Sensor Rolls Test Results, Clear TPM Sensor Warnings, Clear Variable Line Pressure Counters, Close Door Calibration, Closed Coupled Replacement, Clutch Pedal Learn, Clutch Sensor Calibration Mode, Configure License Plate Size, Coolant Three Way Valve, Coolant Three Way Valve Replaced, Crankshaft Pos. Variation Learn, 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, ELSD Quicklearn, Emissions Rolls Test Mode, Enable / Disable Vehicle Features, Enable/Disable Seatbelt Minder Chime, Engine Idle Shutdown Feature Enable/Disable, EPB Service Procedures, Erase Calibration value storage, Exhaust Phaser 1 Cleaning, Exhaust Phaser 2 Cleaning, Exit in Plant Mode, Exit Logistic Mode, Exit Shipping Mode, FCM Enable Emissions Rolls Test Mode, Fire Protection System Activate, Fleet Pin Reset, Front Axle Disconnect Feature, Front Axle Nominal Tire Pressure, GSE Injector Adaptation, Hard Stop Search, Headlamp Leveling, Heated Seat NTC Validation, High Temp Cabin Valve Cal/Test, 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 ORC, Injector Quantity Adjustment, Intake Phaser 1 Cleaning, Intake Phaser 2 Cleaning, IPC Replacement, Key FOB Identification, Key Fobs Linked To Memory, KeySense PIN Reset, Learn ETC, Light Rain Sensor Calibration, Longitudinal G Sensor Calibration, Low Temp Coolant Fill - Active Pump, Low Temp Coolant Fill - Passive Pump, Manual Logistic Mode Procedure Enable, Mass Air Flow Sensor Initialization, Microphone Output Short Test, Microphone Tone Test, Modify Volumetric Sensors Sensitivity, Most Recent Cool Down Test Results, Motor Position Learn, 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, Open Door Calibration, Overboost counter reset, Phonic Wheel Ttooth Learning Reset, Pressure Sensor Calibration, Program Engine Serial Number, Program Tire Sensor Identifications, Program Tire Size, Program Variant Coding, Proxi Configuration, Proxi Configuration Alignment, 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 Axle Nominal Tire Pressure, 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 Camshaft Adaptive, Reset Camshaft Adaptives, Reset Clutch Capacity Adaption, Reset ECU, Reset Enhanced Automatic Oil Change Indicator, Reset Error Free Operation Time to 40 Hours, Reset H2O Lamp, Reset High Voltage Cable Open DTC, 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 Turbo Adaptives, Reset Turbo Over Boost Counter, Reset VCM Adaptives, Reset VVA Freeze Incorrect Request, Reset Zero Fuel Quantity Calibration, Resolver Offset Learn, 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 Axle Type, Set Max Cruise Speed, Set Max Vehicle Speed, Set Ride Height Level, Snorkel Output Test, Standardization, Stationary Desoot (DPF Regen), Steering Angle Calibration, Steering Angle Calibration Test, Store Learned TCU Adaptives, System Air Mass/Pressure/Ride Height Readings, TCC Break In, TCM Reset Learned Adaptives Routine, Throttle Body Self-Learn Activation, Throttle Body Self-Learning, Tip Start Temporary Disable, Tire Pressure Sensor Registration, TLC Learn, TPM Pressure Update to Placard Value, Trailer Hook Presence Disabling, Trailer Hook Presence Enabling, Turbo Actuator Pre-Align / Self Calibrate, 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

#### **2467 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, 2-4 Solenoid State, 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 Blend Door 1, 2nd Row Blend Door 2, 2nd Row Blend Door 3, 2nd Row Blend Door 4, 2nd Row Ceiling Light, 2nd Row Center Seat Backrest Release Actuator, 2nd Row Headrest Release Switch, 2nd Row LT Easy Entry-Exit Switch 2, 2nd Row LT Latch Switch, 2nd Row LT Seat Backrest Release Actuator, 2nd Row LT Seat Easy Entry Release Actuator, 2nd Row LT Seat Fold Switch, 2nd Row LT Seat Headrest Release Actuator, 2nd Row Mode Door 1, 2nd Row Mode Door 2, 2nd Row RT Easy Entry-Exit Switch 2, 2nd Row RT Latch Switch, 2nd Row RT Seat Backrest Release Actuator, 2nd Row RT Seat Easy Entry Release Actuator, 2nd Row RT Seat Fold Switch, 2nd Row RT Seat Headrest Release Actuator, 2WD Rolls Mode, 2WD Test Mode, 3rd Gear Clutch Test (62TE), 3rd Gear Clutch Test (Non-RFE), 3rd Gear Clutch Test (RFE), 3rd Row Ceiling Light, 3rd Row Fold-Unfold Switch 1 Left, 3rd Row Fold-Unfold Switch 1 Right, 3rd Row Fold-Unfold Switch 2 Left, 3rd Row Fold-Unfold Switch 3 Left, 3rd Row Fold-Unfold Switch 3 Right, 3rd Row Headrest Release, 3rd Row Headrest Release Switch, 3rd Row LT Recline Switch FWD, 3rd Row LT Recline Switch RWD, 3rd Row LT Seat Folding Motor 1, 3rd Row LT Seat Folding Motor 2, 3rd Row LT Seat Headrest Release Actuator, 3rd Row Mode Door 1 Actuator Position, 3rd Row Mode Door 2 Actuator Position, 3rd Row RT Recline Switch FWD, 3rd Row RT Recline Switch RWD, 3rd Row RT Seat Folding Motor 1, 3rd Row RT Seat Folding Motor 2, 3rd Row RT Seat Headrest Release Actuator, 4 Low Indicator, 4C Solenoid, 4C Solenoid State, 4th Gear Clutch Test (62TE), 4th Gear Clutch Test (Non-RFE), 4th Gear Clutch Test (RFE), 4th Row Ceiling Light, 4WD, 4WD Auto, 4WD AUTO Indicator, 4WD Indicator, 4WD LED, 4WD Lock Indicator, 4WD Low, 4WD Neutral Indicator, A/C, A/C Compressor Clutch Relay Control State, A/C Relay, A/C Request, A/C Select, ABS, Abs Failure Indicator, ABS Failure Lamp, ABS fault Lamp, ABS Lamp, ABS Light, ABS Safety lamp, A-C Button, A-C Compressor Clutch Relay Control State, AC emergency shut off, AC Indicator, A-C INDICATOR, A-C Indicator PWM, AC Off For Vehicle Manoeuvring, AC Request, A-C Request, A-C Select, ACC Enter In-Plant

Mode, ACM Wake Up, 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 Position, Actuator Test For SCR Device Relay, Actuator Test For Scrdevrly, Actuator Test Of Urea Back Flow Pump Actuator, Adjustable Pedal Disable Relay, Aero LED, Aero Level, Aftertreatment System Performance Test, Air Bag, Air Bag Fail, Air Bag Lamp, Air Bag Light, Air Condition, Air Condition Relay Control, Air Conditioner Relay Command, Air Dam Test, Air Defrost Motor Distribution (Left side), Air Defrost Motor Distribution (Right side), Air Distribution Motor Command (Mode), Air Mix Motor, Air Mixing Motor Command, AIR Mixing Motor Command (Left SIDE), AIR Mixing Motor Command (Right Side), Air Mode Motor, Air Rear Motor Distribution, Air Recirculation Motor Command, Air Suspension Leakdown Test, Air Vent - Floor Motor Distribution (Left side), Air Vent - Floor Motor Distribution (Right side), Airbag failure indication, Airbag Fault Indicator, Alarm/Doors Status Led, Alarm/Doors Status/Deterrence LED, Alarm-Doors Status-Deterrence LED, All Doors/Central Locks, All Doors-Central Locks, All LEDs On, All Lights Front Command, All Lights Rear Command, All Stop Lights, All Stop Lights (EMEA 949), All Stop Lights (EMEA 952), All Stop Lights (NAFTA 949), All Stop Lights (NAFTA 952), ALL Stop Lights Command, All Stop Lights W-Combined Rear Lighting, All Stop Lights W-O Combined Rear Lighting, All Turn Lights Command, 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, Ambient dimming command, Ambient Illumination; Interior, Ambient Lamp, Ambient Light, Ambient Light Control, Ambient Lighting Command, Ambient Temperature, AMP Output Short Test, AMP Output Tone Test, ANC Output Short Test, Antenna Power, Antilock brake (ABS) failure indication, Anti-lock Brake System (ABS) safety indication, APM Status, Apply release brake rear left EPB, Apply release brake rear right EPB, Apply release electric brake EPB, Approach Light State, ASR-ESP Safety indication, Assist Call Button Green LED, Assist Call Button Red LED, Assist Call Green Day PWM, Assist Call Green LED Control PWM, Assist Call Green Night PWM, Assist Call Red Day PWM, Assist Call Red LED Control PWM, Assist Call Red Night PWM, ATMM Left Actuator Command -%, ATMM Left Actuator Command -Degrees, ATMM Left Actuator Command -Hz, ATMM Right Actuator Command -%, ATMM Right Actuator Command -Degrees, ATMM Right Actuator Command -Hz, Audio Measure AC and DC, Audio Routing, Audio Test, Audio Test For Subwoofer Specific, 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 - Backlight, AUTO Button, Auto high beam activation, Auto High beam headlamp indication, Auto High Beam Indicator, 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, AutoApply function, Autocheck, Automated Driver Door Ajar Signal, Automated Driver Door Open, Automatic High Beam, Auxiliary Coolant Pump, Auxiliary Fuel Pump, AVAC Motor Central Position, AVAC Motor Down Most Position, AVAC Motor Up Most Position, Average Ambient Temperature, AWD System Switch, 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 - Heated Seats, Backlight Control - Other, 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 Activation, Backlight Leds Control, Backlighting, Backlighting Dimming Command, Backlighting: Driver Temp Down, Pass Temp Down, Backlighting: Driver Temp Up, Pass Temp Up, Backlighting: Knob Halo White Backlighting, Backup Alarm, Backup Lamp Left, Backup Lamp Right, Backup Light, BACKUP LIGHT L-R, Backup Lights, Baggage Lamps, Balance Level Settings, Balance Settings, Bargraph, Bass Level Settings, Bass Settings, Battery Bad (Red), Battery Charge LEDs, Battery Coolant Heater, Battery Coolant Pump, Battery Good (White), Battery LED 1, Battery LED 2, Battery LED 3, Battery LED 4, Battery LED 5, Battery LED 6, Battery LED 7, Battery LED 8, Battery LED 9, Battery Voltage LEDs, Battery Voltage Output, Battery-Alternator FAIL-Charge, BCI LED Control, Bed Lamp, Blind Spot Indicator State, Blow By Heater Relay Command, Blower Down Button, Blower Knob - Backlight, Blower Motor, BLOWER Motor Brushed, BLOWER Motor Brushless, Blower Motor Command, Blower Motor Speed, Blower Up Button, Blue Cooled Seat Indicators, Blue Heated Seat Indicators, Blue Lights, Blue Temperature Bar, Boost Low Pressure Actuator, Boost Pressure, Boost Pressure Actuator, Both Headlamps Max High Position, Both Headlamps Max Low Position, Brake Failure Indicator, Brake Indicator, Brake Light, Brake State Output, Brake Switch, Brake Sys Fail Ind, Elec PK Brk Indication And EPB Fail Indicati, Brake Sys Fail Indication, Electronic Parking Brake Indication, Brake System Fail Indicator, EPB Indicator, Brake System Failure [EMEA Only], Brake System Failure [US Only], Brake system failure indication [BRAKE], BRAKE Text, Brake Warning Lamp, Braking System Fail-Brake Fluid Low Level, Brk Sys fail Ind (EBD Included) - Man Park Brk Ind, Brk Sys fail Indication, Elec Park Brk Ind, Brk Sys fail Indication, Elect Park Brk Ind and EPB fail Ind, BSM State, BSM Wake Up, BTSI, 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 Control, 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, Buzzer Control, Cabin AIR Temperature Sensor Blower, Cabin Temperature Sensor, Camera Washer, Cargo Lamp, Cargo Light, Cargo Light Indicator, CARGO LIGHTS, Catalyst Efficiency Test, CEGR H-Bridge Valve Duty Cycle, Ceiling Light, Ceiling Light Front, Ceiling Light Front Command, Ceiling Light Rear Left, Ceiling Light Rear Left or Central, Ceiling Light Rear Right, Center High Mount Stop Lamp, Center Stop Lamp, Central high mounted Stop Light, Central high mounted Stop Light (CHMSL), Central Lock, Central Lock (Pass Side), CENTRAL LOCK PASSENGER, Central Stop Lamp, Central Unlock, Channel 1, Channel 1 Audio Control, Channel 1 Audio Output Status, Channel 10, Channel 10 Audio Control, Channel 10 Audio Output Status, Channel 11, Channel 11 Audio Control, Channel 11 Audio Output Status, Channel 12, Channel 12 Audio Control, Channel 12 Audio Output Status, Channel 13 Audio Output Status, Channel 14 Audio Output Status, Channel 15 Audio Output Status, Channel 16 Audio Output Status, Channel 17 Audio Output Status, Channel 18 Audio Output Status, Channel 19 Audio Output Status,

Channel 2, Channel 2 Audio Control, Channel 2 Audio Output Status, Channel 20 Audio Output Status, Channel 21 Audio Output Status, Channel 22 Audio Output Status, Channel 23 Audio Output Status, Channel 24 Audio Output Status, Channel 3, Channel 3 Audio Control, Channel 3 Audio Output Status, Channel 4, Channel 4 Audio Control, Channel 4 Audio Output Status, Channel 5, Channel 5 Audio Control, Channel 5 Audio Output Status, Channel 6, Channel 6 Audio Control, Channel 6 Audio Output Status, Channel 7, Channel 7 Audio Control, Channel 7 Audio Output Status, Channel 8, Channel 8 Audio Control, Channel 8 Audio Output Status, Channel 9, Channel 9 Audio Control, Channel 9 Audio Output Status, Charge Air Cooler Coolant Pump, CHARGE PLUG LOCK, CHARGE PLUG UNLOCK, Charge Port Command CAN, Charge Port Command Hard Wired, Charge Port Lock Motor, Charge Port Request Tester, Charge Port Unlock Motor, Check Engine - MIL Lamp, Check Engine (MIL) Lamp, Check Engine MIL Lamp, Check Engine-MIL (Malfunction Indicator Lamp), Check PCM Odometer, Chiller Shut-off Valve, CHMSL, CHMSL Control, CHMSL Lamp, CHMSL and Stop/Turn Lights, Clearance Identification Lights Relay, Close Door, Clutch Output, 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, Cold Start Aid Driver 1 Output, Comfort Closing And Opening, Comfort ClosingOpening, Comfort Enable, Comfort ENABLE Command, Command Key Unlock, Command Shift Lock, Compressed Natural Gas, Compression Test, Compressor Circuit Test, Compressor Cool Down, Compressor Current, Compressor Running, Control All Solenoids, Control chime, Control the steering column, Convenience/Reading Lamp, Convenience-Reading Lamp, Coolant Bad Indicator, Coolant Fill, Coolant Fill Active Pump, 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 Lamp 2, Courtesy Lamps, Crankcase Ventilation, Crankcase Ventilation Heater, Cruise Control Lamp, Cruise control lamp command, Cushion Extender Motor, 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, Cylinder 4 Deactivation Solenoid Control State, 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 Adaptive Cruise Control, Dasm Safety Indication Normal Cruise Control, Day Lights, Day Lights Left, Day Lights Left - Right, Day Lights Left -Right, Day Lights Right, Day Run Light (DRL) Parking Light Left, Day Run Light (DRL) Parking Light Left (Halogen), Day Run Light (DRL) Parking Light Left (Xeno), Day Run Light (DRL) Parking Light Left LED, Day Run Light (DRL) Parking Light Right, Day Run Light (DRL) Parking Light Right (Halogen), Day Run Light (DRL) Parking Light Right (Xeno), Day Run Light (DRL) Parking Light Right LED, Day Run Light (DRL) Parking 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 Left, Daylights Right, Daylights Xenon Left, Daylights Xenon Right, DC Clutch Volume Index Check, Deactivation Parking Sensor, Deactivation Parking Sensor LED, Dead Lock Relay, DeadLock Relay, DeadLock Relay-Independent Driver Door Unlock, DEADLOCK-SECONDARY LOCK (FT), DEADLOCK-SECONDARY LOCK (RR), Dedicated DRL Lamp Left, Dedicated DRL Lamp Right, DEF (Reductant) Pressure Line Heater Test, DEF (Reductant) Tank Heater Test, DEF Dosing Injection Quantity, DEF Reductant Doser Prime Override Test, DEF Reductant Doser Pump Override Test, Defeat Engine ON, Diesel Cabin Heat 1, Diesel Cabin Heat 2, Diesel Cabin Heat 3, Diesel Cabin

Heater #1, Diesel Cabin Heater #2, Diesel Cabin Heater #3, Diesel Cabin Heater 1, Diesel Cabin Heater 2, Diesel Cabin Heater 3, Diesel Cabin Heater 4, Diesel Fuel Heater Relay, Diesel Particulate Filter Lamp Command, Digital Inputs1 High Memory, Dimming display, Dimming Graphics, Direct Backlight, Disable Level Control, Disable Passenger Airbag Lamp Request, Display Dimming, Display Start Inhibit Data, DNA Status LED 3, Door Ajar, Door Ajar Indicator, Door Ajar Signal To Front Ceiling Dome, Door Ajar Switches, Door Ambient Light State, Door Courtesy Lamp State, Door Handle Power, Door Handle Power Control, Door Handle Verification Test, Door Locks, Door Open, Vehicle Does Not Lower, Door Puddle Lamp State, Door Status Led, Door Status LED Command, Doors status - deterrence LED, Doors Status - Deterrence LED Driver Door, Doors Status - Deterrence LED Passenger Door, Double Start Override Relay, DOWN Select Button, Downstream lambda probe heater command, DPF Lamp, DPF Reset Option, D-Pillar Recline Switch forward, D-Pillar Recline Switch rearward, DR Solenoid, Drive Away function, Drive style 2 LED, Drive Style 2 LED Command, Drive style 3 LED, Drive Style 3 LED Command, Driver Cooled Seat, Driver Door Ajar, Driver Door Ajar Signal To Manual Transmission Automated, Driver Door Ajar Signal To MTA, Driver Door Ajar Signal To MTA (Manual Transmission Automated), Driver Door Handle And Puddle Light LED Command, DRIVER DOOR LOCK LED, Driver Door Lock Status LED Command, Driver Door Lock-Unlock, Driver Door Unlock, Driver Doors Status - Deterrence LED, Driver Heated Seat, Driver heated seat relay command, 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, DRIVER UNLOCK, Drivers Window Control, DRL, DRL - Front Park Lights, DRL Lamp, DRL Left, DRL Parking Light Left Command, DRL Parking Light Right Command, DRL Right, 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, Dual Speed Oil Pump Status, Dual Tank Aux LP Relay, Duct Sensor - Floor Left, Duct Sensor - Floor Right, Duct Sensor - Panel Left, Duct Sensors -Panel Right, Dump Valve, Dump valve command, Duty Cycle Purge Solenoid, EAC Compressor Speed Request, Easy Entry/Exit, EBD Safety Lamp, EBD Warning Light, EBL Status, EC Mirror State, 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, ECC Percent Max Torque, ECM WAKEUP, ECO, ECO Button, ECO Indicator, ECO LED, ECO Led Command, ECO ON-OFF Indicator, ECO-LPG-SS-E-Costing LED Command, ECVD Compressor PWM Command, ECVD Compressor PWM Command~ECVD Compressor PWM Command, EGR Cooler Bypass, EGR cooler bypass command, EGR DC Motor Sol Vlv Recir Vlv, EGR DC Motor And Solenoid Valve, 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, ELCM Forced Monitor Test, Elec Stabil Ctrl (ESC) Sys Intrvntn - fail Ind HILL HOLDER Sys, Electric Motor Control, Electric Power Steering Failure Indication, Electric Pump Drive Unit Command, Electric seat movement Relay, Electric Seat Movimentation Relay, Electric Thermostat Heater, Electric Thermostat Heater Solenoid, Electric Thermostat Heater Solenoid Duty Cycle, Electric Transmission Oil Pump, Electric Vacuum Pump, Electric Wastegate Valve, Electronic Brake Distribution (EBD) safety indication, Electronic Parking Brake (EPB) failure indication, Electronic Parking Brake (EPB) Failure Indication [US Only], Electronic Power Steering Fail, Electronic Stability Control, Electronic Stability Control (ESC) Fail, Electronic Stability Control (ESC) Indicator, Electronic Stability Control (ESC) Off, Electronic Stability Control (ESC) OFF lamp indication, Electronic Stability Control (ESC) system deactivation, Electronic Stability Control Off, ELSD System Function Test, EMCC VLP Solenoid, Emergency Call Backlight LED PWM, Emergency Call Green LED PWM, Emergency Call Red LED PWM, Emissions Failure Lamp, Emissions Rolls Test Mode Is Active,

EMTC Encoder Power Return, EMTC Encoder Power Supply (5V), Enable sunroof unit, Engagement electrovalve PPV1 command (3rd/2nd/Reverse), Engagement Electrovalve PPV2 Command (1st/4th/5th/6th), Engine After Run Coolant Pump, Engine Check Lamp [MIL], Engine Digital Fan 1, Engine Digital Fan 2, Engine Misfire-EOBD Engine Fail DEF-UREA Fail, Engine Misfire-EOBD(European On Board Diagnostic) Engine Fail, Engine Off Injector Toggle Test, Engine Oil Pressure Lamp Command, Engine Oil Pump Valve, Engine RPM Control, Engine Running Injector Kill Test, Engine Speed Cluster, Engine Speed Output, Engine Temp LEDs, Engine Temperature, Engine Warm Up, Engine Water Over Temperature, Engine Water Over Temperature Lamp Command, Enter, Enter Button, Enter Plant Mode, EOBD (Electronic On Board Diagnostic) Failure Indicator, EOBD And Engine System Fault Lamp, EPB Auto Apply Control, EPB Button lamp, EPB Drive Away Control, EPB Failure Lamp, EPB Function Lamp, EPB Indicator And EPB Fail Indicator, EPB Service, EPB Switch Function LED, EPB Warning Light, EPS Adaptive Data Control, EPS Fail (Electric Power Steering), EQ Loudness Test, ESC, ESC - HILL HOLDER Sys Fail Indicator, ESC (Electronic Stability Control) System Deactivation, ESC / Hill Holder Failure Lamp, ESC Disable Lamp, ESC Failure Lamp, ESC Indicator, ESC Intervention-Fail, ESC Malfunction Lamp, ESC Off, ESC OFF lamp, ESC ON-OFF Indicator, ESC Safety Lamp, ESC System Deactivation, 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, EVCU Wake Up, Even Gear Clutch (K2) Control|Solenoid Valve Command, Excessive Engine Fluid Temperature, Exhaust Brake, Exhaust Brake Auto Green, Exhaust Brake Yellow, 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), F L Heat Seat Request - Output, F L Vent Seat Request - Output, F R Heat Seat Request - Output, F R Vent Seat Request - Output, Faceplate Controls-Eject, FAD Feedback Voltage, FAD Lock Request, FAD Power Output, FAD Request Output, FAD Supply Voltage, Fade Settings, Fader Level Settings, Fader Settings, Fan Climate Relay, Fan Clutch PWM Duty Cycle Output, Fan Clutch Test, Fan Control, Fan Off Button, Fan Rotary Detents, Fan Rotary Direction, Fast Down Leveling Test, Fasten Seat Belt Indication, Fault Message F1 -Service Air Suspension, FCW (Front Collision Warning) OFF, FCW Button, FCW Indication Forward Collision Warning, Feature Pin, Fill Spring From Reservoir, First Pass Cool Down Test Results, First Row Driver Seatbelt Buckle Sensor-Switch, First Row Passengers Seatbelt Buckle Sensor-Switch, FL Command Electrovalve, Flasher - Rear backup Left Light, Flasher - Rear backup Right Light, Flasher Front Left, Flasher Front Right, Flasher Rear - Lateral Left, Flasher Rear - Lateral Right, Flasher-Rear backup Left Light, Flasher-Rear backup Right Light, Flex Fuel reserve indication, Flipper Glass 2, Fog Front Light Left, Fog Front Light Right, Fog Front Lights Left Right, Fog Lamp, Fog Lamps, Fog Light Led, Fog Lights, Fog Rear Light Left -T2 (952), Fog Rear Light Or Second Backup Light, Fog Rear Light Right -T2 (952), Fog Rear Lights - T2 (949), Foot Well, Foot Well/Halo Lamps, Foot Well-Halo Lamps, Forward Collision Warning Fail, Forward Collision Warning OFF, Forward Collision Warning Permanent Fail, FR Command Electrovalve, Freeze Current State, Frequency Step Selection, Frequency Step Selection Tuner AM-FM, Frequency Step Selection Tuner FM2, Front Blower Control, Front Blower Motor, Front Blower Speed, Front Ceiling Light, Front Ceiling Light - Inadvertent Lights, Front Ceiling Light + Inadvertent Lights, Front Ceiling Light Command Enable, Front Collision Off, Front Collision Off, Front Defrost, Front Defrost -Backlight, FRONT DEFROST button, Front Defrost Indicator, Front Defrost-Max Defrost Button, Front Driver window lifter command, Front Driver Window Lifter Command Down, Front Driver Window Lifter Command Up, Front DRL Light Xenon, Front Fog, Front Fog Lamps, Front Fog Light Left, Front Fog Light ON, Front Fog Light Right, Front Fog

Lights, Front Fog Lights Halogen, 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, Front Passenger Window Lifter Command Down, Front Passenger Window Lifter Command Up, Front Position Light Xenon, Front Position-DRL Light Halogen, Front Refrigerant Shut-off Valve, Front Right Flasher, Front Right Heat Seat Request, Front Right Parking Light, Front Shut-Off Valve Request, Front Side Marker, Front SIDE Marker Command, Front Unlock, Front Vertical Motor, Front Wash, Front Washer, Front Wiper, Front Wiper (High/Low), Front Wiper (High-Low), Front Wiper (On/Off), Front Wiper (On-Off), Front Wiper Hi Speed, Front Wiper Low-Int Speed, Front Wiper Test, Front/Rear Washer, Front-Rear Washer, Fuel Door Lock, FUEL DOOR UNLOCK, Fuel Filter Heater, FUEL FILTER HEATER - PARK (L-R), Fuel Filter Heating, Fuel filter water level warn lamp, Fuel Filter Water Level Warning Lamp, Fuel Injector, Fuel Injector 1, Fuel Injector 1 Control State, Fuel Injector 2, Fuel Injector 2 Control State, Fuel Injector 3, Fuel injector 3 Control State, Fuel Injector 4, Fuel Injector 4 Control State, Fuel Injector 5, Fuel Injector 5 Control State, Fuel Injector 6, Fuel Injector 6 Control State, Fuel Injector 7, Fuel Injector 7 Control State, Fuel Injector 8, Fuel Injector 8 Control State, Fuel Injector Balance, Fuel Injector Cleaning, Fuel Level LEDs, Fuel Level low, Fuel Level Output, Fuel Metering Unit, Fuel Metering Unit Actuator, Fuel Pre Supply Pump, Fuel Pressure Override, Fuel Pressure Regulated O/P (Bar), Fuel Pressure Regulator, Fuel Pressure Regulator Valve, Fuel Pump, Fuel Pump Relay, Fuel Pump Relay Command, Fuel Pump Relay Control State, Fuel Reserve-Limited Range, Fuel System Run Up Test, Fuel Type, Functional LED Illumination Level, Functional LED State, Functional Leds Control, Gas Injector Relay, Gasoline Indicator, GATED PARK RELAY, Gated Park ZFII Output, Gated Park ZFII Output Control, Gear Lever Position Display Test, Gear Position, Gear Selection, General Stop For All Actuators, General Stop Function, Generator Ramp Time, Generator Speed Threshold, Glow Lamp, Glow lamp command, Glow Plug, Glow Plug / Cold Inhibit Lamp, Glow plug indication - Cold Start inhibition, Glow Relay, Grid Test, Hand Brake-Braking System Fail-Brake Fluid Low Level, Haptic Motor, Hazard Command LED, Hazard LED, Hazard LED Command, HCSS WAKEUP, Head Lamp Wash, Head Lamp Wash Relay Command, Head Lamp Washer Relay, Head Rest Actuation, Head Rest Relay, Headlamp DRL Parking Light Left Signal, Headlamp DRL Parking Light Right Signal, Headlamp Washer, Headlamps moving in the central vertical position, Headlamps moving in the highest position, Headlamps moving in the left limit position, Headlamps moving in the lowest position, Headlamps moving in the right limit position, Headlamps moving in the straight ahead position, Heated Rear Window, Heated Rear Window Led Command, Heated Rear Window Relay, Heated Rear Window Relay Command, Heated Seat Automatic Addressing, Heated Seat Driver High Indicator, Heated Seat Driver Low Indicator, Heated Seat Driver Med Indicator, Heated Seat LED, 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, Heated Steering Wheel indicator, Heated Steering Wheel PWM Control, Heated Steering Wheel Request, Heated Steering Wheel Request - Output, Heated Steering Wheel~Heated Steering Wheel, Heated Windows Command, Heater EBL, Heater Rear Mirror, Heater Rear Window, Heating Driver Command, Heating Passenger Command, Heating Steering Wheel Command, Height Sensor Check, 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, High Beam Enabled, High beam headlamp indication, High Beam Indicator, High Beam Left, High BEAM Left Command, High Beam Light, High Beam Light Left, High Beam Light Right, High Beam Lights, High Beam On, High Beam Right, High BEAM Right Command, High Beam Xenon with shutter, High Beams, High Beams Lights, High

Beams Lights Halogen, High Pressure Fuel Rail Test, High Pressure Fuel System Test, High Side For Diesel Filter Heater Relay Command, HIGH SIDE POWER SEAT RELAY, High Speed Engine Cooling Fan Control, High Speed Fan, High Speed Fan Relay, High Temp Aux Pump, High Temp Cabin Valve Rotation, High Temp Coolant Fill - Aux Pump, High Temp Shut-off Valve, High Voltage Battery Precharge Contactor Test, High Voltage Coolant Heater, Hill-Holder Safety indication, Hill-Holder Safety Lamp-Message, Hood Ajar, Horizontal Headrest Motor, Horizontal Motor, Horizontal Motor Backward/Forward, Horn, Horn Relay, Horn relay command, HPCR Duty Cycle, HPCR Duty Cycle Output, HSD 21W 1, HSD 21W 2, HSD 21W 3, HSD 21W 4, HSD FOR LED 1, HSD FOR LED 2, HSD RELAY 1, HSD RELAY 2, HSD RELAY 3, HSD RELAY 4, HSD RELAY 5, HSD RELAY 6, HSD RELAY 8, HUD Lighting Level, HVAC A-C Indicator, HVAC AUTO Indicator, HVAC Backlight Control, HVAC Cool Down Test, HVAC Front DEF Indicator, HVAC Mode Button, HVAC Power (OFF) Button, HVAC Rear DEF Indicator, HVAC REC Indicator, HVAC Self Test, HVAC SYNC Indicator, H-W Switched 12 V Supply, I/O Control All-Limp Home Mode active, I/O Control All-Red Lamp, 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, Ignition Run - Acc 1, Ignition Run - Acc 2, Ignition Run - Start, Ignition RUN/ACC 1, Ignition RUN/ACC 2, Ignition RUN/START, Ignition RUN-ACC 1, Ignition RUN-ACC 2, Ignition RUN-START, Immobilizer Antenna, Immobilizer Antenna Test, In Motion Menu, Indicator Channel, Indicator Control-A/C Indicator, Indicator Control-Auto Indicator, Indicator Control-FCW Indicator, Indicator Control-Front Defrost Indicator, Indicator Control-Indicator 1 (Auto), Indicator Control-Indicator 10 (SSO), Indicator Control-Indicator 11 (PPA), Indicator Control-Indicator 12 (LDW), Indicator Control-Indicator 2 (AC), Indicator Control-Indicator 3 (Recirc), Indicator Control-Indicator 4 (Front Defrost), Indicator Control-Indicator 5 (Rear Defrost), Indicator Control-Indicator 6 (ECO), Indicator Control-Indicator 7 (FCW), Indicator Control-Indicator 8 (Traction Control), Indicator Control-Indicator 9 (PTS), Indicator Control-LDW Indicator, Indicator Control-Park Sense Indicator, Indicator Control-Rear Defrost Indicator, Indicator Control-Recirc Indicator, Indicator Lamp Airbag, Indicator LED Illumination Level, Indicator Leds Control, 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, Inlet Valve FR, Inlet Valve Left Front, Inlet Valve Left Rear, Inlet Valve LF(Normally Open), Inlet Valve LR (Normally Open), Inlet Valve RF (Normally Open), Inlet Valve Right Front, Inlet Valve Right Rear, Inlet valve RL, Inlet valve RR, Inlet Valve RR (Normally Open), Input Test, Instrument Panel Dimming, Instrument Panel Illumination Level Output, Instrument Panel Dimming, Intake Air Throttle Actuator, Intake Air Throttle Actuator Test, 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, Intake Throttle Duty Cycle Output, Interior Ambient Lighting, Interior Convenience Lamps, Interior Convenience Lamps 2, Interior Convenience Lamps 3, Interior Panel Dimming Lamps, Interior Panel Dimming Lamps 2, Interior Vanity Lamps, Internal Led Night Lights, Internal Night Lights, Internalcrown Light Rear Left LED, Internalcrown Light Rear Right LED, Inverter, Inverter Enable, Inverter Enable Command, Inverter Enable Command (949), Inverter Enable Command (952), Inverter Enable Relay, Inverter Status Indicator, Inverter Switch, IOD RELAY ON LSD, IP dimming command, I-P Illumination, IP Run 1, IP Run 3, IP Run Start 1, IP Run Start 2, IPC Self Test, IRCM Heater, IRCM Relay Unlock Control, ITOS - Cabin Temperature, Key LED, Key LED PWM Duty, Key lock command, Key Pad Back Lighting, Key Solenoid Coil, Key Symbol Back-Light PWM Duty, Keypad Backlight Control, KeySense, KIN ACC LED State, KIN Antenna Power, KIN LED Control, KIN OFF LED, KIN OFF LED State, KIN RUN LED, KIN RUN LED State, KIN Start/Stop LED State, KIN Start-Stop Button (SSB) LED, 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 - on not armed- on armed- on warning, Lane Departure Warning (LDW) Left Side, Lane Departure Warning (LDW) On Not Armed- On Armed- On Warning, Lane Departure Warning (LDW) Right Side, Lane Departure Warning (LDW) user disabled (OFF), Lane Departure Warning ON-OFF Indicator, Latch Cinch Test, Latch Motor Cinch Direction, Latch Motor Release Direction, Lateral Anti Tilt Sensor, Lateral Anti-tilt X Sensor, LC Clutch Volume Index Check, LC Solenoid, LCD Back-Light PWM Duty, LCD Symbols, LDP Solenoid, LDW (Lane Departure Warning), LDW on not armed- on armed- on warning, LDW Warning Indicator, Leak Detection Pump, Leak Detection Pump Forced Monitor Test, 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 Intensity Output, LED Lock Inhibition Rear Widows Lifter, LED Test - Damping Mode Automatic Active, LED Test - Damping Mode Hard / Sport Active, LED Test - Damping Mode Soft Active, LEDS Position Activation, 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 Backup Lamp, Left Cushion Heat Seat Linear PWM Request -Output, Left Day Light Lamp, Left Daytime Running Lamp, Left DRL, Left DRL Light, Left Floor Duct Sensor, Left Front Fog Lamp, Left Front Fog Lamps, Left Front Park Lamp, Left Front Park Lamps, Left Front Side Marker, Left Front Turn Lamp, Left Front Turn Signal, Left Headrest Dump, Left HID Lamp, Left High Beam, Left High Beam Lamp, Left High Beam Shutter, Left Low Beam, Left Low Beam-HID, Left Panel Duct Sensor, Left Parking Lights, Left Rear AUX Turn Lamp, Left Rear Door Lock-Unlock, Left Rear Fog Lamp, Left Rear Fog Lamps, Left Rear Park Lamp, Left Rear Stop Light (Fixed), Left Rear Tail Light, Left Rear Tail Light + Side Marker, Left Rear Tail-Park Lamp, Left Rear Turn Lamp, Left Rear Turn Lamp (BUX), 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 Recliner Switch, Left Reverse Lamp, Left Reverse Lamp 2, Left Reverse Lamp State, Left SBL Command, Left Seat Back Motor Adjustment, Left Seat Latch Motor Adjustment, Left Seat Stow Motor Adjustment, Left Side Markers, Left Signal Mirrors/Side Repeaters (BUX), Left Signal Mirrors-Side Repeaters (BUX), Left Signature Lamp, Left Solar Sensor Values, Left Stop-Turn Lamp, Left Temp Down - Backlight, Left Temp Down Button, Left Temp UP -Backlight, Left Temp Up Button, Left Trailer Tow Turn/Stop Lamp, Left Trailer Tow Turn-Stop Lamp, Left Turn Indicator, Left Turn Light, Left Turn Light Front-Lateral, Left Turn Light Indication, Left Turn Light indicator, Left Turn Light Status, Left Turn Lights, Left Turn Signal Indicator, Left Turn Signal Lamp, Left turn signal lamp indication, Left Vent Seat Linear PWM Request -Output, Level Not Permitted, LF Antenna Verification Test, Licence PLATE LED Lights Command, License Plate Lamp, License Plate Lamp WK -Right Rear Rail Lamp WD, License Plate Lamps, License Plate Light, License Plate Lights, License Plate Lights Command, Lift Pump Relay, Liftgate Additional Parking Light Left And Right Command, Liftgate Parking Light Left And Right Command, Liftgate Release Motor, Light sensor, LIN Anti Tilt Sensor Check, LIN Line Request Check, Lin Module Data, LIN Siren Check, LIN Ultrasonic Sensors Check, Linear Hall, Linear Solenoid A, Linear Solenoid B, Linear Solenoid C, Linear Solenoid D, Linear Solenoid E, Linear Solenoid F, Linear Solenoid G, Load Level, Locate Learned Keys, LOCK 4WD, Lock Doors Command, Lock Inhibition Rear Widows Lifter LED, Lock Rear Doors Relay, Lock Unlock Doors LED, Longitudinal Anti Tilt Sensor, Loud Speaker Test, Low Beam Left, LOW BEAM Left Command, Low Beam Light, Low Beam Light Left, Low Beam Light Right, Low Beam Lights, Low Beam Lights Halogen, Low Beam Lights Left Right, Low Beam Right, LOW BEAM Right Command, Low Beam Xenon, Low Beams, Low Fuel, Low Fuel Lamp, 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 Temp

Active Pump, Low Temp Passive Pump, Low Temp Passive Pump 1, Low Temp Passive Pump 2, Lower LED, Lowering, Low-Reverse Solenoid, LPG Failure - Reserve, LPG Led Command, LR Clutch Volume Index Check, LR Door Ajar, LR DOOR LOCK LED, LR Solenoid, LSD FOR LED 3, 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, Master Ept Wake Up Output, Master ePT Wake Up Output 1, Memory Seat ECU Self Test, Metering Unit, Metering Unit Actuator, Microphone Test, Middle LED, Mid-Range Audio Level Settings, Mid-Range Settings, MIL Lamp, Mirror Direction Control, Mirror Fold, Mirror Fold Window Control, Mirror Heat State, Mirror Heater, Mirror LED, Mirror LED -Day-Night, Mirror LED Left State, Mirror LED -ON-OFF, Mirror LED Right State, MIRROR PUDDLE LIGHT L-R, Mirror Puddle Lights, Mirror Right LED State, Mirror Signal Lamp State, Mirror Vertical/Horizontal Direction, Mode, Mode 2 Actuator Position (Defrost Panel Door), Mode - Backlight, Mode Button, Mode Door 1 (Panel), Mode Door 2 (Defrost-Demist), Mode Door 3 (Floor), Mode Selection, Motor A Control, Motor B Control, Motor Brake State, Motor Control Close Output, Motor Control Open Output, Motorized Thermistor-Cabin Temp, MProp Command (High Pressure), MS Solenoid, Multiair VVA Solenoid 1, Multiair VVA Solenoid 2, Multiair VVA Solenoid 3, Multiair VVA Solenoid 4, Mute, MUTE button, Mute Test, Neutral, Neutral Gate Test (62TE), Neutral Gate Test (Non-RFE), Neutral Gate Test (RFE), Neutral LED, Night lighting command, Night lights, NOx Sensor Replacement, O2 1/1 Heater Duty-Cycle, O2 1/2 Heater Duty-Cycle, O2 Heater Test, O2 Heater Tests, O2 Sensor Heater Bank1 Sensor1, O2 Sensor Heater Bank1 Sensor2, O2 Sensor Heater Bank2 Sensor1, O2 Sensor Heater Bank2 Sensor2, OBCM Wakeup, OBD Button 1 Pad 1, OBD Button 1 Pad 2, OBD Button 2 Pad 1, OBD Button 2 Pad 2, OBD Button 3 Pad 1, OBD Button 3 Pad 2, OBD Button 4 Pad 1, OBD Button 4 Pad 2, OBD Button 5 Pad 1, OBD Button 5 Pad 2, OBD Button 6 Pad 1, OBD Button 6 Pad 2, OBD Button 7 Pad 1, OBD PPPA -Pad 1, OBD PPPA -Pad 2, OD Clutch Volume Index Check, Odd gear clutch (K1) controll|solenoid valve command, OFF Button, Offroad Level 1, Offroad Level 2, Oil Pressure Bad, Oil Pressure Good, Oil Pressure Lamp, Oil Pressure LED 1, Oil Pressure LED 2, Oil Pressure LED 3, Oil Pressure LED 4, Oil Pressure LED 5, Oil Pressure LED 6, Oil Pressure LED 7, Oil Pressure LED 8, Oil Pressure LED 9, Oil Pressure LEDs, Oil Pressure Output, On-Demand Self-Test, Open Door Test, Open-Close, OPTIONAL HSD 1 PWM, OPTIONAL HSD 2 PWM, ORC RELAY CONTROL, Outlet Valve FL, Outlet valve FR, Outlet valve front left activation, Outlet valve front right activation, Outlet Valve Left Front, Outlet Valve Left Rear, Outlet Valve LF (Normally Closed), Outlet Valve LR (Normally Closed), Outlet valve rear left activation, Outlet valve rear right activation, Outlet Valve RF (Normally Closed), Outlet Valve Right Front, Outlet Valve Right Rear, Outlet valve RL, Outlet valve RR, Outlet Valve RR (Normally Closed), Over Drive Solenoid, Over Drive Solenoid On Time, Over-Drive Solenoid, Overdrive Switch Test, Overdrive Switch Test (Non-RFE), OverDrive Switch Test (RFE), 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, PARK - SIGNATURE LEFT, PARK - SIGNATURE RIGHT, Park Assist Switch Simulation, Park Lamp Rear Left, Park Lamp Rear Right, Park LED, Park Light, Park Mode Level, Park Mode Pending, Park Pawl Actuator Control, Parking Assistant LED, Parking Brake And Low Brake Fluid, Parking Light Indicator, Parking Position Lamp Indication, PARK-SIGNATURE LEFT, PARK-SIGNATURE RIGHT, Parttime LED, Passenger Airbag (PAB) Status, Passenger Airbag LED, Passenger and Rear Doors Unlock, Passenger Cooled Seat, Passenger Door Ajar, Passenger Door Handle And Puddle Light LED Command, PASSENGER DOOR LOCK LED, Passenger Door Lock Status LED Command,

Passenger Door Lock-Unlock, Passenger Door Power Window, Passenger Door Unlock, Passenger Doors Status - Deterrence LED, Passenger Heated Seat, Passenger Heated Seat Relay, Passenger heated seat relay command, Passenger Occupant Detection Sensor (ODS), Passenger seat Air-bag manual deactivation indication, Passenger Seat Belt, Passenger Seat Movement Relay Command, Passenger Temp Detents, Passenger Temp Down Button, Passenger Temp Rotary Direction, Passenger Temp Up Button, Pedals, Pedals Forward/Backward, PEPS Ignition Switch LED Command, Permanent Static System Fault, Pilot 1 (USV Front, MCI Front - Normally Open), Pilot 1 (USV LF-RR, MCI LF-RR -Normally Open), Pilot 2 (USV Rear, MCI Rear - Normally Open), Pilot 2 (USV RF-LR, MCI RF-LR -Normally Open), Pilot Front (USV - Normally Closed), PL Solenoid Current, PLGM Chime Output, PLGM Drive Clutch Output, PLGM Drive Motor-Close Direction, PLGM Drive Motor-Open Direction, Pneumatic Intercooler Bypass, Pneumatic Waste Gate, Police Passenger Un-Lock Motor, Position Lamp, Position lamp indication, Position Lamp Indicator, Position Lamp Telltale, Position Light Relay, Position Lights, Power (OFF), Power Down, Power limitation function, Power Mirror Feed Relay Control, Power On and Disable User Inputs, Power Side Step Module Actuation Test, Power Steering Failure Indication, Power Steering Failure Indicator, PPPA, PPPA ON-OFF Indicator, PPV1 Electro-Valve, PPV-K2 Clutch Electro-Valve, PPVS Electro-Valve, Pressure Control Relief Valve (PCR - Normally Closed), Pressure Control Solenoid Valve, Pressure Regulator Valve, Pressure Value Correction Shut-Off, Pre-Supply Pump, Priming 1 (HSV Front, LPF Front -Normally Closed), Priming 1 (HSV LF-RR, LPF LF-RR -Normally Closed), Priming 2 (HSV Rear, LPF Rear -Normally Closed), Priming 2 (HSV RF-LR, LPF RF-LR -Normally Closed), Priming Front (HSV - Normally Closed), 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 Control (Relay), PTC Heater Relay 1, PTC Heater Relay 2, PTC Heater Relay 3, PTC High Power (Relay), PTC Low Power (Relay), PTO, PTS Button, PTS ON-OFF Indicator, PTS Switch Simulation, PTU Position, Puddle Lamp State, Puddle Light, Puddle Light Command Driver Side, Puddle Light Command Passenger Side, Puddle Light Driver, Puddle light Driver (Door handle and door panel), Puddle light Driver side, Puddle Light Passenger, 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 Rear Light Left, Puddle Rear Light Right, Pump, Pump Control, Purge canister valve command, Purge Solenoid Duty Cycle, Purge Valve Duty-Cycle, Purge Vapors Test, PWM Fan Actuation Test, PWM Output, QPV K1 Clutch Electro-Valve, QVPM Enable Command, R L Heat Seat Request - Output, R R Heat Seat Request - Output, Radiator Cooling Fan PWM Cntrl State, Radiator Cooling Fan PWM Control State, Radiator Cooling Fan PWM Duty Cycle, Radiator Cooling Fan PWM Duty-Cycle, Radiator Cooling Fan Relay 1 Control State, Radiator Cooling Fan Relay 1,2,3 Control State, Radiator Cooling Fan Relay 2 Control State, Radiator Fan 1 Duty Cycle, Radiator Fan 2, Radiator Fan 2 Duty Cycle, Radiator Fan 3, Radiator Fan Duty Cycle, Radiator Jalousie ShutterPosition, Radiator-Condenser Cooling Fan Relay 1 Control State, Radiator-Condenser Cooling Fan Relay 2 Control State, Radio, Radio List Enter Button, Radio Mute Backlight, Radio Mute Button, Radio Power Button, Radio Screen OFF Backlight, Radio Screen OFF Button, Radio Volume, Rail Pressure, Rail Pressure Sensor Replacement, Rain and Automatic Lights Sensors Check, Raising, Raising Lowering Interrupted, Ram Active Air Box Test, Ram Box, Range Select Downshift Test Routine, Range Select Downshift Voltage, Range Select Upshift Test Routine, Range Select Upshift Voltage, Range Selection Electrovalve Command (PPVS), Read VIN, Ready, Ready To Drive, Rear Axle Lock, Rear Axle Locker Command, Rear Blend Door Output, Rear Blower CFM, Rear Blower Speed, Rear Blower Speed Output, Rear Blower State, Rear Ceiling Light, Rear Ceiling Light - Inadvertent Lights, Rear Ceiling Light + Inadvertent Lights, Rear Ceiling Light 1st Row, Rear Ceiling Light 2nd Row, Rear Ceiling Lights,

Rear Defrost, Rear Defrost Backlight, Rear Defrost Button, Rear Defrost Indicator, Rear Department, Rear Door Status LED, Rear Driver Floor Duct Sensor Temperature, Rear Driver Panel Duct Sensor Temperature, Rear Fog, Rear Fog Lamps, Rear Fog Light, Rear Fog Light / Side Marker Lights, Rear Fog Light or Second Backup Light, Rear Fog Light or Second Backup Light - Side Marker Lights, Rear Fog Light Status, Rear Fog Lights, Rear Fog Lights Left T2 Movable, Rear Fog Lights Right T2 Movable, Rear Fog T2 (Movable), Rear Heated Window, Rear HVAC Blower Motor, Rear Left Handle And Puddle Light LED Command, Rear Left Parking Light, Rear Left Position Light, Rear Left Position Light Status, Rear Left Turn Light, Rear Left window lifter command, Rear Left Window Manual Mode, Rear Load Compartment Status LED Command, Rear Mode 1 Actuator Position, Rear Mode Door Output, Rear Parking Light - Side Markers, Rear Parking Light / Side Markers, Rear Parking Lights Command, Rear Parking Lights Command LED, Rear Reverse Light (Movable), Rear Reverse Light Left -T2 (952), Rear Reverse Light Right -T2 (952), Rear Reverse Lights -T2 (949), Rear Right And Left Tail T2 (Movable), Rear Right Handle And Puddle Light LED Command, Rear Right Parking Light, Rear Right Position Light, Rear Right Turn Lamp, Rear Right Turn Light, Rear Right window lifter command, Rear Right Window Manual Mode, Rear Shut-Off Valve Request, Rear Stop Lights (Movable), Rear Trunk light, Rear Turn Lights Left EMEA, Rear Turn Lights Right EMEA, Rear Vertical Motor, Rear Wash, Rear Window Washer, Rear WINDOW Washer Command, Rear Window Wiper, Rear Window Wiper (949), Rear WINDOW Wiper Command, Rear Wiper, Rec Motor, Recirc, Recirc -Backlight, RECIRC button, RECIRC Indicator, Recirc. Door Actuator Position, Recirculation Door Actuator Position, Recirculation LED, Recirculation Motor, Recirculation Pump, Recirculation pump activation, Recliner, Recliner Motor, Red Brake Lamp, Red Hazard Button, Red Heated Seat and Steering Wheel Indicators, RED Heated Seat Indicators, Red LEDS Activation, Red Temperature Bar, Reduce Speed, Redundant Ignition RUN/START Feed Output Control, Redundant Ignition RUN-START Feed Output, Redundant Ignition RUN-START Feed Output Control, 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 Light Status, Reverse Gear Lights, Reverse Gear Lights And Electrochromic Mirror Command, Reverse Lamp, Reverse Lockout Solenoid, Reverse Lockout Solenoid Control State, 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 Backup Lamp, Right Cushion Heat Seat Linear PWM Request -Output, Right Day Light Lamp, Right Daytime Running Lamp, Right DRL, Right DRL Light, Right Floor Duct Sensor, Right Front Door Handle Power, Right Front Fog Lamp, Right Front Fog Lamps, Right Front Park Lamp, Right Front Park Lamps, Right Front Side Marker, Right Front Turn Lamp, Right Front Turn Light-Lateral, Right Front Turn Signal, Right Headrest Dump, Right HID Lamp, Right High Beam, Right High Beam Shutter, Right Low Beam, Right Low Beam-HID, Right Panel Duct Sensor, Right Parking Lights, Right Rear Door Handle Power, Right Rear Door Lock LED, Right Rear Door Lock-Unlock, Right Rear Fog Lamp, Right Rear Fog Lamps, Right Rear Park Lamp, Right Rear Tail Light, Right Rear Tail Light (Fixed), Right Rear Tail/Park Lamp, Right Rear Tail-Park Lamp, Right Rear Turn Lamp, Right Rear Turn Lamp (BUX), 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 Recliner Switch, Right Reverse Lamp, Right Reverse Lamp #2, Right Reverse Lamp 2, Right Reverse Lamp State, Right SBL Command, Right Seat Back Motor Adjustment, Right Seat Latch Motor Adjustment, Right Seat Stow Motor Adjustment, Right Side Markers, Right Signal Mirrors/Side Repeaters (BUX), Right Signal Mirrors-Side Repeaters (BUX), Right Signature Lamp, Right Solar Sensor Values, Right Stop-Turn Lamp, Right Temp Actuator Position, Right Temp Down -Backlight, Right Temp Down Button, Right Temp Up -Backlight, Right Temp Up Button, 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, Right Turn Light Indication, Right Turn Lights, Right Turn Signal Indicator, Right Turn Signal Lamp, Right turn signal lamp indication, Right Turn Signal Lamp Indicator, Right Vent Seat Linear PWM Request, Right Vent Seat Linear PWM Request -Output, RL Command Electrovalve, Roller Learning Shut-Off, Rotary 4 Detents, Rotary 4 Direction, RPS Power Supply (5V), RR Command Electrovalve, RR Door Ajar, RR DOOR LOCK LED, RT-LT Sidemarkers-RT-LT Applique Parklamps, Run, Run Acc 2, Run-Start 1, Safety indication, Safety Indication Adaptive Cruise Control, Safety Indication Forward Collision Warning, Safety Indication Normal And Adaptative Cruise Control, Safety Indication Normal Cruise Control, SBMT, SBMT (Supply Battery Monitoring Time), SBMT 0, SBMT -Supply Battery Monitoring Time, SBMT2 (Supply Battery Monitoring Time), SCR Inlet Temp Sensor Replacement, SCR Relay Actuation Test, Screen Off, SCREEN OFF button, Screen Test Pattern, SDAR Station Selection, SDC Status Red LED, SDC Status White LED, Seat Belt, Seat Belt Lamp, Seat Belt Light, Seat belt unfastened Lamp, Seat belt unfastened Warning cycle, Seat Belt Warning Chime, Seat Mode Switch Adjustment, Seat Position Recall, Seat Selector Switch Adjustment, 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, Seek Status Tuner AM-FM, Seek Status Tuner DAB, Select Level Switches-Damping Mode Button, Self Test, Self Test Routine, Sensor Rolls Test, Separation Valve (SV - Normally Open), SERV LED, Service Air Suspension, See Dealer Now -(Red Lamp), Service Lamp, Set All Backlight Leds At PWM Value, Set All Functional Leds At PWM Value, Set Engine RPM, Set Engine RPM Test, SET PWM Display (Brightness), Setting Dimming Levels (DISPLAY), Shift Lever Position Test (62TE), Shift Lever Position Test (Non-RFE), Shift Lever Position Test (RFE), Shift Lock Coil Command, Shift Lock Command, Shift Solenoid 1, Shift Solenoid 2, Shift Solenoid 3, Shift Solenoid 4, Shift Solenoid 5, Shift Solenoid 6, Shift Solenoid A, ShiftLock, Short Term Control Motor Current, Shutoff Correction Quantity, Shutoff Injector Quantity, Side Marker, Side Marker Front, Side Marker Lamps, Side Marker Lights Rear -T1 (952), Side markers, Side Markers Command, Side Mirrors Heater Control, SIDE TURN LEFT, SIDE TURN RIGHT, Siren Test, 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, 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, Spring Deflate To Atmosphere, Spring Deflate to Reservoir, SRS Indicator Lamp Request, SRS Lamp, SRV Test, SS Command LED, SS LED command, SSB BACKLIGHT Control, Standard Vehicle Level, Start Stop activation, Start Stop LED, Start/Stop System, Starter, Starter Relay, Starter Solenoid, Starter Solenoid (High), Starter Solenoid High, Starter Status, Steering Column, 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 - STOP TURN LEFT, STOP - STOP TURN RIGHT, Stop / Start System Active Lamp, Stop All Actuators, Stop And Start Led, Stop Lamp, Stop Light, Stop Light Left, Stop Light Right, Stop Light Status, 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, Stop-Start Activation, StopStart LED, StopStart LED Command, Stop-Start ON-OFF Indicator, Stop-Start System Active, Stop-Turn Lamp Left, Stop-Turn Lamp Right, Street Bending Light (SBL) Left, Street Bending Light (SBL) Right, Sun Shade Control, Sunroof Abilitation, Sunroof Enable,

SUNROOF MOTOR, Surge Solenoid Control State, Surge Valve Solenoid, Sway Bar Indicator, Swing Gate Lock, Swing Gate Unlock, Swirl Valve actuator Test, Switch Illumination State, Switch On EPB Failure Lamp, Switch On EPB Function Lamp, System Disabled (Tire Jack Mode), System Temporarily Not Available, System Wiring Test, T Case Service Indicator Request, TAIL - SIDE MARKER LEFT, TAIL - SIDE MARKER RIGHT, Tail Gate Lock, Tail Gate Unlock, Tail LAMP Parking Light Left Command, Tail LAMP Parking Light Right Command, Tail LAMP Stop Light Left Command, Tail LAMP Stop Light Right Command, Tail Or Tail Side Marker Rear Left -T1 (949), Tail Or Tail Side Marker Rear Right -T1 (949), Tail Rear Right And Left -T2 (949), Tail Stop Or Tail Stop Turn Rear Left -T1 (952), Tail Stop Or Tail Stop Turn Rear Right -T1 (952), Tail Stop Rear Left -T2 (952), Tail Stop Rear Right -T2 (952), T-Case Motor Brake HSD Output, T-Case Motor Brake LSD Duty Cycle, T-Case Motor Direction, 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, Telltale - ESC Off, Telltale - ESP Off, Telltale - Park, Telltale - Position Lamp, Telltale - Rear Fog, Telltale ESP/BAS, Telltale-Tire Pressure, Telltale-Tire Pressure Monitor, Telltale-Tow Mode, Temperature Down Button, Temperature Up Button, Temperature Warning Lamp, Temporary Remote Start Disable, Test Pattern Display, Thermal System Enable, 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, Throttle Valve Actuator, Tilt Mirrors in Reverse, Time Controlled Spring Fill, Timeout Time Flash To Pass, Timeout Time Paddle Shift Switches, Tire Pressure, Tire Pressure Module ( TPMS), Tire Pressure Module (TPMS), Tire Pressure Module (TPMS) not available-not programmed, Tire Pressure Monitoring, Tire Pressure Warning Lamp, Tone Test, Top LED, Topper Center Mounted Stop Lamp, TOPPER CHMSL, Torque Coupling Control, TOW-HAUL, Tow-Haul Indicator, TPM Sensor Rolls Test, TPMS, TPMS Failure Lamp, TPMS Generic 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, Transponder Antenna Power, Treble Level Settings, Treble Settings, Truck Bed Lighting Leds, Truck Cargo Lamps, Trunk Door Handle Power, Trunk Lamp, Trunk Latch Command relay, Trunk Light, Trunk Light + Inadvertent Lights, Trunk Light Command, Trunk Opening Relay, Trunk Opening Relay Command, Trunk Release Relay, Trunk Release Relay Command, Trunk/Flipper Glass Release Motor, Trunk-Flipper Glass Release Motor, Trunk-Gate, Trunk-Liftgate Ajar, Tumble Generator Valve, Tune Knob -Backlight, Tuner Rotary Detents, Tuner Rotary Direction, Turbo/VGT Component Replacement, Turbocharger Pressure Actuator Command, 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, Turn Light Front - Lateral Left, Turn Light Front - Lateral Right, Turn Light Front Left, TURN Light Front Left Command, Turn Light Front Right, TURN Light Front Right Command, TURN Light Lateral Left Command, TURN Light Lateral Right Command, Turn Light Rear - Lateral Left, Turn Light Rear - Lateral Right, Turn Rear Backup Left Light, Turn Rear Backup Right Light, Turn Rear Lateral Lights Left, Turn Rear Lateral Lights Right, Turn Rear Light Left -T1 (EMEA), Turn Rear Light Right -T1 (EMEA), Turn Right, Turn Signal Lamp State, Turn Stop Rear Left Light -T1 (NAFTA), Turn Stop Rear Right Light -T1 (NAFTA), Twilight Sensor Value, UConnect Live Apps Installation, UD Clutch Volume Index Check, UD Solenoid, UGDO, 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, Unlock doors command, Unlock Left Rear, Unlock Left Rear Door, Unlock Right Rear, Unlock Right Rear Door, UNLOCK RT RR, Unlock Run -Start, Unlock RUN-START, UP Select Button, Upstream lambda probe heater command, Urea (Reductant) Pressure Line Heater Actuation Test, Urea (Reductant) Tank Heater Actuation 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 displacement oil pump command, Variable Swirl Actuator, Variable swirl actuator closing command, Variable Swirl Valve Shutoff, Variable Valve Timing, VVT Control Valve, Vehicle Speed Cluster, Vehicle Speed Output, Vehicle Speed-RPM, Vehicle Sway Green, Vehicle Sway White, Vehicle Sway Yellow, Vehicle Theft Alarm, Vertical Front, Vertical Headrest Motor, Vertical Rear, VES Display Screen Control, VES Headphone Tone Test-Headphone 1, VES Headphone Tone Test-Headphone 2, Video Input, View Last Successful Remote Start Event Data, View Last VTA Trigger Cause Data, View Remote Start Abort Data, View Remote Start Inhibit Data, View Satellite Sensor Information, View VTA Enable Data, VLP Solenoid, VOLTAGE STABILIZER STATUS LED, Volume Knob -Backlight, Volume Rotary Detents, Volume Rotary Direction, VSO, VSO Regeneration Command, VTA Indicator LED, VTA Lamp, 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, Washer Camera, Waste gate valve command, Wastegate Solenoid Control State, Wastegate Solenoid Duty Cycle, Water In Fuel, Water In Fuel Filter Lamp Command, Water Pump Charge Air Cooling, Welcome Lights Command, White Backlighting Buttons, White Backlighting Channel 1, White Backlighting Channel 2, White Backlighting Knob Buttons, White Backlighting Knob Indicators, White Knob Indicators, White Lower Halos, White Upper Halos, Wind shield Wash, Wind shield wiper, Window Control, Window Hall Sense Supply, Window Heater Led, Window lifter commands enable, Window lifter enable commands, Window Lifter Switch Enable, Window State, Windshield heater, Windshield Heater Relay, WINDSHIELD HEATER RELAY DR, Windshield Heating, Windshield Washer, Windshield Washer Command, Windshield Washer Relay, Windshield wiper, Windshield Wiper Relay, Wiper Status, WK Head Rest Relay, Yellow A/C and Auto Indicators, Yellow Button Indicators, Yellow Fault Lamp, Yellow Lane Departure Warning Indicator, Yellow Rear Defrost Indicator, Yellow Recirc Indicator

## New Ford/Lincoln Coverage

### 41 new Adjustment type special tests:

ABS Service Bleed, Active Torque Coupling Configuration, Anti-Lock Brake System (ABS) Calibration, Battery Monitor System Reset, BCM Crash Status Reset, Brake System Pressure Bleeding, Clear Transmission Adaptive KAM Tables, Clear Transmission Adaptive Tables, Climate Control System Actuators Calibration, Clutch System Test, Do Not Use The Transmission Adaptive KAM Tables, Electronic Integrated Park Brake - Initialization, Electronic Integrated Park Brake - Service Tools, Engine Oil Life Reset, Factory Keyless Entry Code, Initialize Adaptive KAM Tables, IVD Initialization Sequence, LIN New Module Initialization - BCM, Misfire Monitor Neutral Profile Correction (Crank Relearn), Occupant Classification System Module (OCSM) Reset, Passenger System Reset/OCS Reset, PMI - ECU Read/Write (PSCM), PMI - Manual Configuration (PSCM), Power Window Initialization - Driver Side, Power Window Initialization - Passenger Side, Pull Drift Compensation Reset, Relearn Vehicle Data - AWD, Relearn Vehicle Data, Reset KAM, Reset The Body Control Module (BCM), Reset the Outside Air Temperature Sensor Learned Values, Reset the Power Steering Control Module (PSCM), Steering Angle Sensor Calibration, Steering Wheel Position Sensor Calibration, Stop Trans-Adaptive Learning And Measure Slip Time, TCM Adaptive

Learning, Tire Pressure Sensor Registration, TPMS Sensor Training Mode, Transmission Characterization - 6R140, Transmission Characterization - 6R80/100 RWD, Wiper Motor Module (WMM) Calibration

#### 426 new Actuation type special tests:

# Button, (Cruise) Resume Switch, (Cruise) Set- Switch, (Cruise) Set+ Switch, \* Button, 3RD Row Left Speaker Status, 3RD Row Right Speaker Status, 4WD-AWD Front Axle Disconnect - Clutch Commanded State, 4WD-AWD Power Transfer Unit - Clutch Commanded State, 4WD-AWD Power Transfer Unit - High Level Strategy Commanded, 4WD-AWD Rear Differential Unit Actuator -A- Requested Torque, 4WD-AWD Transfer Case Actuator -A- Requested Torque, ABS Pump Motor Control, 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, Accessory Delay Relay Circuit, Active Grille Air Shutter -A- Position Commanded, Active Grille Air Shutter -B- Position Commanded, Actuator Supply Voltage -B- Control State, Adaptive Cruise Distance Gap (-) Switch, Adaptive Cruise Distance Gap (+) Switch, Adaptive Front Lighting Fault, Air Conditioning Clutch Engaged, Air Conditioning Compressor Command State, Air Conditioning Compressor Commanded State, Air Mode Actuator, Airbag Warning Indicator, All Door Lock, All Door Unlock, All Injectors Disabled, All LCD Segments, All Segments, All Warning Lamps, AM Button, Anti Theft Indicator Lamp Control, Anti Theft RF Enable And Transmit Command, Antilock Braking System Power Relay Output Status, Anti-Theft Horn Status, Anti-Theft Indicator Lamp Control, AUX (Auxiliary) Button, Auxiliary Blower Output, Auxiliary Transmission Fluid Pump Commanded, Auxiliary Transmission Fluid Pump Control % Speed - Commanded, Battery Charging Voltage Desired, Battery Pack Coolant Ctrl Valve A - Output Ckt Energized, Battery Saver Relay Control, BECM Cell Voltage, Blower Motor Speed, Brake Lamp, Brake Shift Interlock, Brake System Fault Indicator Lamp, Brake-Shift Interlock, Cabin Coolant Heater Control, Camera Power Control, Cancel Button, CD Button, Center 2 Speaker Status, Center High Mounted Stop Lamp Output Control, Center Speaker Status, Center Tweeter Status, Central High Mounted Stop Lamp, Check Engine MIL Lamp, Check Fuel Cap Indicator Lamp Command, Commanded Equivalence Ratio (Air to Fuel Mixture) Bank 1, Commanded Equivalence Ratio (Air To Fuel Mixture) Bank 2, Commanded Equivalence Ratio Air To Fuel Mixture Bank 1, Commanded Equivalence Ratio Air To Fuel Mixture Bank 2, Converter Pressure Control, 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, Cruise Control Lamp, DC To DC Converter Enable, DC-DC Enable Status, Decklid - Liftglass Release Output Status, Decklid- Liftglass Release Output Status, Delayed Accessory Power, Desired Camshaft Angle For All Banks, Desired Engine Cooling Fan Speed, Desired Fuel Rail Pressure, Desired Generator Voltage, Desired Idle Speed (Rpm), Desired Line Pressure Control, Dimmable Backlighting, Dimmer Switch Input Status, Dimming Control Command, Door Ajar Warning Indicator, Door Ajar Warning Lamp Circuit Failure, Door Lock, Output, Driver Door Interior Lock-Unlock Latching Switch Status, Driver Door Unlock, Driver Heated Seat, ECO Mode, EGR Duty Cycle, EGR Valve Position Desired, Eject Button, Engine Coolant Bypass Valve Control Output, Engine Coolant Bypass Valve -D- Commanded to be Energized, Engine Coolant Bypass Valve -D- Output Status, Engine Coolant Pump Speed - Commanded, Engine Idle Shutdown Extended, Engine Oil Pressure Control Duty Cycle - Commanded, Engine Over Temperature Light, Engine Revolutions Per Minute, Engine Running Fuel Injector Control, Engine Running Fuel Pressure Test, Enter Button, EVAP Canister Vent Valve, EVAP LDP Vac Sw Valve - Change Over From Vent To LDP, EVAP Leak Test, EVAP Purge/Vent Control, EVAP Vapor Blocking Valve, Evaporative Emission Canister Purge Valve Duty Cycle, Evaporative Emission Canister Vent Valve On/Off, Evaporative Emission Canister Vent Valve Duty Cycle, Evaporative Emission Canister Vent Valve, Evaporative Emission Vapor Management Valve Enable, Evaporative Emission Vapor Management Valve, Evaporative System

Leak Detection Pump Commanded State, Exhaust Heat Exchanger Bypass Valve A Control Signal Duty Cycle, Fan On Off Test, Fan Speed Desired, Firm Shift, Floor Lamp Output Circuit, FM Button, FM Radio Band, Fog Lamp, Front Blower Relay, Front Fog Lamp Indicator, Front Fog Lamps Request, Front Park Lamps Output, Front Washer Pump Relay, Front Window Down Output, Front Wiper Hi/Lo Control, Front Wiper Relay, Fuel Fill Door Unlock Output - Commanded To Enable State, Fuel Gauge Indicator Control %, Fuel Gauge Indicator Control On/Off, Fuel Gauge Indicator Control, Fuel Gauge Indicator, Fuel Level Low Indicator, Fuel Pump - Duty Cycle, Fuel Pump On/Off, Fuel Pump Relay, Fuel Pump, Fuel Rail Pressure Desired, Fuel System Test, Fuel Volume Control Valve, Gear Command By Output State Control, Gear Commanded, Gear Display 1, General Warning Indicator 1 (Red), General Warning Indicator 2 (Amber), General Warning Indicator Red, Generator Lamp, Generator Voltage Desired, Generator Voltage Set Point, Grill Shutter A Position - Commanded, Heater Control For HO2S 11 And HO2S 21, Heater Control For HO2S 12 And HO2S 22, HEV Ready Light, High Beam Indicator, High Beam, High Pressure Fuel System Test, Horn Relay, Horn, Hybrid-EV Traction Battery Thermal System Operational Levels, Hybrid-EV Wake Up - Commanded, Hydraulic Pump Motor, Illumination, Info (Information) Button, Instrument Cluster Trailer Indicator, Intake Manifold Runner Control, Interior Lighting Circuit, Interior Lights 1 (PWM) Output, Interior Lights 2 PWM Output, Key (Removal) Inhibit, Key Pad Back Lighting, Keypad Lamp Output Status, KOEO Self Test, KOER Self Test, Lamp Control, LCD Illumination Level, LED Backlighting, Left Blend Door Position, Left Bottom Bolster Bladder Inflate Status, Left Climate Seat Mode, 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 Inlet Valve State, Left Front Inlet Valve, Left Front Isolation Valve, Left Front Mid Range Speaker Status, Left Front Mirror Turn Signal Lamp Status, Left Front Outlet Valve State, Left Front Outlet Valve, Left Front Position-Sidemarkers, Left Front Speaker Status, Left Front Turn Lamp Output Status, Left Front Turn Signal Lamp Status, Left Front Tweeter Status, Left Front/Right Rear Traction Control Supply 1, Left Front/Right Rear Traction Control Valve 1, Left Front-Right Rear Traction Control Supply 1, Left Front-Right Rear Traction Control Valve 1, Left Hand High Beam Circuit, Left Headlamp High Beam, Left Headlamp Low Beam, Left Position Lights Duty Cycle, Left Rear Dump, Left Rear Inlet Valve State, Left Rear Inlet Valve, Left Rear Isolation Valve, Left Rear Outlet Valve State, Left Rear Outlet Valve, Left Rear Speaker Status, Left Rear Turn Signal Lamp Status, Left Rear Turn Signal-Trailer Relay Status, Left Rear Tweeter Status, Left Side Bolster Bladder Inflate Status, Left Stop Lamp Duty Cycle, Left Stop Lamp, Left Turn Signal Lamp Status, License Plate Light, Lights On Warning, Line Pressure Control Desired, Line Pressure Control Measured In Current, Load Shed Output Control, Low Beam Circuit Status Left Front, Low Beam Circuit Status Right Front, Low Fuel Warning Indication, Low Pressure Fuel Leakdown Test, Low Washer Fluid Warning, Lower Lumbar Bladder Inflate Status, Malfunction Indicator Lamp, Max Defrost, Menu Button, Mid-Lumbar Bladder Inflate Status, Mirror Puddle Lamps, Motor Electronics Coolant Pump, Next-Last (>|) Button, O2 Sensor 1 For All Banks Commanded To Heat, O2 Sensor 2 For All Banks Commanded To Heat, Oil Pressure Low Indicator, Oil Pressure, On Demand Test, One Touch Start Status, One-Touch Start Status, Output State Control Of Torque Converter, Over Drive (O-D) off, Overdrive Off Indicator, Park Brake Applied Lamp, Parking Lamp, Passenger Heated Seat, Passive Sounder, PATS Radio Frequency Transmit Status, PCM WAKEUP LINE, Phone Button, Power Balance, Power Button, Power Fold Mirror Activation Status, Power Point Output Relay, Powertrain Failure Indicator, Preset 0 Button, Preset 1 Button, Preset 2 Button, Preset 3 Button, Preset 4 Button, Preset 5 Button, Preset 6 Button, Preset 7 Button, Preset 8 Button, Preset 9 Button, Rear (Hvac) Mode Control Input, Rear Blower Control, Rear Center Speaker Status, Rear Defrost (Heated Backlight), Rear Defrost Relay Status, Rear Fog Lamp Indicator, Rear Park Lamps Output, Rear Temperature Flap Position, Rear Washer Pump Relay, Rear Wiper Relay, Relative Compression, Reverse Lamp, Right Blend Door Position, Right Bottom Bolster Bladder Inflate Status, Right Climate Seat Mode, Right Front

Defrost Output, Right Front Dump, Right Front Fog Lamp, Right Front Inlet Valve State, Right Front Inlet Valve, Right Front Isolation Valve, Right Front Mid Range Speaker Status, Right Front Mirror Turn Signal Lamp Status, Right Front Outlet Valve State, Right Front Outlet Valve, Right Front Position-Sidemarker, Right Front Speaker Status, Right Front Turn Lamp Output Status, Right Front Turn Signal Lamp Status, Right Front Tweeter Status, Right Front/Left Rear Traction Control Supply 2, Right Front/Left Rear Traction Control Valve 2, Right Front-Left Rear Traction Control Supply 2, Right Front-Left Rear Traction Control Valve 2, Right Headlamp High Beam, Right Headlamp Low Beam, Right Position Lights Duty Cycle, Right Rear Brake Pressure, Right Rear Dump, Right Rear Inlet Valve State, Right Rear Inlet Valve, Right Rear Isolation Valve, Right Rear Outlet Valve State, Right Rear Outlet Valve, Right Rear Speaker Status, Right Rear Turn Signal Lamp Status, Right Rear Turn Signal-Trailer Relay Status, Right Rear Tweeter Status, Right Side Bolster Bladder Inflate Status, Right Stop Lamp Duty Cycle, Right Stop Lamp, Right Turn Signal Lamp Status, Run-Accessory Output Control, 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, Seek Left Button, Seek Right Button, Shift Solenoid A, Shift Solenoid B, Shift Solenoid F Commanded Current, Shift Solenoid G Commanded Current, Shift Solenoid Pressure Control A, Shift Solenoid Pressure Control B, Shift Solenoid Pressure Control C, Shift Solenoid Pressure Control D, Shift Solenoid Pressure Control E, Side Light Lamp, Side Mirror Heating Output Control, Side Mirror Turn Signal Lamp Control, Smart Window Control, Sounder Output Request, Sounder Output, Spark Advance - Control State, Spark Advance, Speaker - Left Front, Speaker - Left Rear, Speaker - Right Front, Speaker - Right Rear, 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, Speed Control Set Indicator, Speedometer %, Speedometer Gauge Indicator Control On/Off, Speedometer Gauge Indicator, Speedometer On/Off, Speedometer, Spotlight Mirror Output, Start Button Mode Indicator Control, Starter Motor Control Output Detected, Stop-Start, Subwoofer 2 Status, Subwoofer Speaker Status, Subwoofer Status, Tachometer Gauge Indicator Control(%), Tachometer Gauge Indicator Control, Tachometer On/Off, Tachometer, Temperature Gauge %, Temperature Gauge Control On/Off, Temperature Gauge Deg, Temperature Gauge On/Off, Temperature Gauge, Third Row Left Speaker Status, Third Row Power Fold Seat Output, Third Row Right Speaker Status, Tire Pressure Monitoring System Indicator, Tire Pressure Telltale Status, Tone Button, Torque Converter Clutch - Control State, Torque Converter Clutch Solenoid Commanded Current, Torque Converter Clutch Solenoid, Traction Assist Active Indicator, Traction Assist Right Control Valve Status, Traction Control Indicator, Traction Control Off Indicator, Transmission System (Mil) Fault, Transmission System MIL Fault, Trip Lamp, Trunk/Liftgate Release Output, Turbo Boost Gauge Pointer Placement Command, Upper Lumbar Bladder Inflate Status, Variable Camshaft Timing Exhaust Angle Desired, Variable Camshaft Timing Intake Desired Angle, Vehicle Mode, Video Output, Voltmeter Pointer Placement Command, Volume Adjustment Program, Volume, Warning Lamp Status 1 - Charge Warning, White Lighting Circuit, Wiper Heater Output

## New GM Coverage

### 6 new Adjustment type special tests:

Automated Bleed, Clear TAP, Crankshaft Pos. Variation Learn, Fuel Trim Reset, Program Key Fobs, Setup SDM Serial Number In BCM

### 49 new Actuation type special tests:

1-2 Shift Solenoid, 2-3 Shift Solenoid, A/C Clutch, ABS Relay Test, Brake To Shift Relay, Cluster Dimming, Coolant Gauge Sweep Test, Cruise Enable, Cylinder Power Balance, Daytime Running

Lamps, Driver Door Unlock, EVAP Purge Solenoid, EVAP Purge/Seal, EVAP Vent Solenoid, Fan On/Off, Fuel Gauge Test, Fuel Injector 1, Fuel Injector 2, Fuel Injector 3, Fuel Injector 4, Fuel Injector Balance, Fuel Pump Relay, GEN L-Terminal, Horn Relay, I/P Illumination Lamps, IAC Position, IAC RPM, Inadvertent Power, Interior Lamps, Lamp Test, Left Front Inlet Valve Solenoid, Left Front Outlet Valve Solenoid, Left Rear Inlet Valve Solenoid, Left Rear Outlet Valve Solenoid, MIL Lamp, Passenger Door Unlock, Passlock Power, Pressure Control, Right Front Inlet Valve Solenoid, Right Front Outlet Valve Solenoid, Right Rear Inlet Valve Solenoid, Right Rear Outlet Valve Solenoid, Security Lamp, Speed Gauge Sweep Test, Tach Gauge Sweep Test, TCC Control, TCC Enable, Transmission Gear, Trunk Release

## New Coverage Details – USA Asian

### New Hyundai/Genesis Coverage

#### 15 new Adjustment type special tests:

Auto Detected Configuration Reset, Multiplicative Injection Time Correction for All Cylinders, Multiplicative Injection Time Correction for Cylinder1, Multiplicative Injection Time Correction for Cylinder2, Multiplicative Injection Time Correction for Cylinder3, Multiplicative Injection Time Correction for Cylinder4, Multiplicative Injection Time Correction for Group(B) All Cylin, Multiplicative Injection Time Correction for Group(B) Cylinder2, Multiplicative Injection Time Correction for Group(B) Cylinder3, Purge Solenoid Valve Opening Additive Correction, Reset of Injector Q-stat Adaptation, Resetting Adaptive Values, Resetting E-CVVT Values, SAHLS Sensor Origin Point Setting, Write VIN

#### 588 new Actuation type special tests:

(LED) DRL Lamp LH, (LED) DRL Lamp RH, 1st Gear Lamp, 2nd Gear Lamp, 3D View, 3rd Gear Lamp, 3rd Row Center SBR Center Indicator, 3rd Row SBR Center Indicator(Optional), 3rd Row SBR Left Indicator(Optional), 3rd Row SBR Right Indicator(Optional), 4th Gear Lamp, 4th Row SBR Center Indicator(Optional), 4th Row SBR Left Indicator(Optional), 4th Row SBR Right Indicator(Optional), 5th Gear Lamp, 6th Gear Lamp, AAF Control - Close, AAF Control - Open, AAF Relay, A-C Compressor Relay, Actuator Control - Apply, Actuator Control - Release, AEWB Control - PWM Type, After Blower USM Set Off, After Blower USM Set On, 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, Alternator Control, Alternator Test, Alt'L Signal Out, Assist BSD Indicator, Assist Door Courtesy Lamp Output, Assist Door Lock Indicator, Assist Mirror Position Down (Option), Assist Mirror Position Left (Option), Assist Mirror Position Right (Option), Assist Mirror Position Up (Option), Assist Power Window Down (Option), Assist Power Window Up (Option), Assist Seat Belt Indicator (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, AV Tail, AVM + FrontLeft + FrontRight View, AVM + RearLeft + RearRight View, Back Up Lamp Output, Back Up Lamp, Battery Warning Lamp, Bifunction Headlamp High LH Solenoid IPS Output, Bifunction Headlamp High RH Solenoid IPS Output, Bolster Left/Right Deflation, Bolster Left/Right Inflation, BSD Indicator, Burglar Horn Relay, Canister Purge Valve, Canister Shut Off Valve Clocked(OBD-2 Only), Canister Shut Off Valve Toggling(OBD-2 Only), Canister Shut Off Valve(Leak Test), Canister Shut Off Valve(OBD-2 Only), CDA Control Solenoid Valve - EX, B1, CDA Control Solenoid Valve - EX, B2, CDA Control Solenoid Valve - IN, B1, CDA Control Solenoid Valve - IN, B2, Central Door Lock Indicator, Central Door Lock Relay, Central Door Lock Switch Indicator Output, Central Door

Lock Switch Output, Central Door Unlock Relay Output, Central Door Unlock Relay, 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, CNG Bi-Fuel Fuel Change, CNG Shut sol valve in Fuel Tank, Compressor Off, Compressor On, Console Mode Door - Floor, Console Mode Door - Vent, 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 Left Relay Output (Option), Cornering Lamp LH Output, Cornering Lamp RH Output, Cornering Lamp Right Relay Output (Option), Courtesy Lamp RL Output, Courtesy Lamp RR Output, CPP(Canister Puge Pump) Control, Cruise Control Main Lamp(Auto CruiseType Only), Cruise Control Main Lamp(Optional), Cruise Control Set Lamp(Auto Cruise Type Only), Cruise Control SET Lamp(Optional), CVVD Intake, CVVT Exhaust, CVVT Intake, D\_DRL Relay, Damper Clutch Solenoid (DCC), Dead Lock Relay, Dedicated DRL Left Output, Dedicated DRL Output (Option), Dedicated DRL Right Output, Defogger - Deicer Relay, Defogger Indicator, DEHUM VALVE - EXV (DEHUMI) Valve Close, DEHUM VALVE - EXV (DEHUMI) Valve Open, Differential Pressure Valve, 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 Unlock Relay (Option), Driver Door Unlock Relay, Driver Heater Control, Driver Mode Door-DEF, Driver Mode Door-Floor, Driver Mode Door-Vent, Driver Power Window Switch Autol Up Output, 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, DRL Relay(Canada), DRVM (Driving Rear View Monitor), EGR Valve, ELCM Change Over Value(COV) Control, ELCM Pump Control, Electric Oil Pump (for HEV), Electric Shuttle Valve-Left Front, Electric Shuttle Valve-Right Front, Electrically Controlled Water Pump (Option), 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), EMS Wakeup Output, Engine Check Lamp(MIL), Engine Clutch Control Solenoid (for HEV), ETC Motor, EV Charge Door Open Lamp Output, EV Charge Door Open Relay, EVAP Leakage Test, Event Indicate LED On-Off, 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, Fan PWM, Flasher Sound Relay(Optional), Flow Stop Valve, Foot Lamp Output(Optional), FPCM pressure control, Front Air Flow Door - 0%, Front Air Flow Door - 100%, Front Air Flow Door - 50%, Front BLDC Blower Motor 0RPM, Front BLDC Blower Motor 1000RPM, 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 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 Indicate LED On-Off, Front Left Turn Signal Output, 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-Full View, Front-Left View, Front-Right View, Front-SVM View, Front-Wide View, Fuel Door Open Solenoid Output, Fuel Open Loop, Fuel Pressure Indicator Lamp(LPI), Fuel Pressure Ragulator (GDI Only), Fuel Pump Control(1st stage), Fuel Pump Control(2nd stage), Fuel Pump Control, Fuel Pump Relay Control for LPG, Fuel Pump Relay for LPG, Fuel Pump Relay(1st stage), Fuel Pump Relay(2nd stage), Fuel Pump Relay, Fuel Tank Isolation Valve Relay Open, Fuel Tank Isolation Valve, Gasoline Lamp (Bi-Fuel), Gauge ON, Glove Box Lamp Output, Haptic Steering Wheel Motor Output, Haptic Steering Wheel Output, Hat Shelf Antenna Output (Power and GND), Hazard Indicator, Hazard Mode State for Turn Signal Lamp Sequential Mode, 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 Low Indicator, Head Lamp Low Left Output, Head Lamp Low Output, Head Lamp Low Right Output, Head Lamp Low Signal, 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, High Mounted Stop Lamp Output, High Pressure Fuel Pump Control, High Pressure Fuel Pump Control2, HLL(Head Lamp Leveling) Max(High) Position, HLL(Head Lamp Leveling) Middle(Center) Position, HLL(Head Lamp Leveling) Min(Low) Position, Horn Relay(NA), Horn Relay, HV PTC OFF, HV PTC ON(Min.), Idle Speed Actuator, Ignition 3 Relay, Ignition Coil Enable-Disable-#1, Ignition Coil Enable-Disable-#2, Ignition Coil Enable-Disable-#3, Ignition Coil Enable-Disable-#4, Illumination, 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-Left Front, Inlet Valve-Left Rear, 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 Lamp Autocut Relay Output(Optional), Interior Mood Lamp Output (Option), Internal Buzzer, IOD Relay, ISG Lamp, ITM Valve, Key Hole Illumination (Manual Key Type), Key Interlock Solenoid(Manual Key Type), Lamp Control, Lamp Load Power Relay, LampLoad AutoCut IPS Output, LongTermLoad Cut Relay Output, LPG Cut Valve for Fuel Rail, LPG Cut Valve for Fuel Tank, LPG Fuel Pump PWM, LPG Lamp, Luggage Lamp Relay, Luggage Lamp, Lumbar Deflation, Lumbar Inflation, Lumbar Middle/Lower Inflation, Upper Deflation, Lumbar Upper/Middle Inflation, Lower Deflation, Main Relay, Manual HLLD Signal Output, Map Lamp Output, Mirror Folding Operation (Option), Mirror Select Left indicator, Mirror Select Right indicator, 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 (Height), Move P/Seat to the Foremost Position (Recline), Move P/Seat to the Foremost Position (Slide), Move P/Seat to the Last Position (Tilt), Move P/Seat to the Lowest Position (FR Height), Move Steering Column At The Longest Position (Tele), Move Steering Column To The Lowest Position (Tilt), Multimedia Load Power Relay, Navi Wakeup Signal Output, Norminal Idle Speed Offset, O2 Heater Front (B1-S1), O2 Heater Rear (B1-S2), OBC Wake up Output, Oil Change Warning Lamp(Optional), 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, 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-Left Front, Outlet Valve-Left Rear, Outlet Valve-Right Front, Outlet Valve-Right Rear, Over speed indicator(Optional), Over Speed Warning Indicator, Parasitic Current Auto-Block IPS, Parking Brake Indicator, 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 (Optional), 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 Window Relay, Pressure Control Solenoid (LP), Pressure Control Solenoid Valve(VFS) 'A', Puddle Lamp Output, 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 Assist Power Window Down Relay, Rear Assist Power Window Up Relay, 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 Down Output, Rear Curtain Up Output [Rear Curtain Hall Sensor Power Output(O, Rear Curtain Up Output, Rear Defogger Relay, Rear Driver B-PILLAR Door - 0%, Rear Driver B-PILLAR Door - 100%, Rear Driver Power Window Down Relay, Rear Driver Power Window Up Relay, Rear Fog Lamp (Optional), Rear Fog Lamp Indicator, Rear Fog Lamp Left Output, Rear Fog Lamp Relay (Optional), Rear Fog Lamp Right Output, Rear illumination, Rear Left Power Window Down (Optional), Rear Left Power Window Up (Optional), 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 (Optional), 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 (Optional), Rear Right Power Window Up (Optional), 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 Room Lamp Output, Rear SBR Symbol Indicator Output(Optional), Rear Seat Belt Center Indicator (Optional), Rear Seat Belt Left Indicator (Optional), Rear Seat Belt Right Indicator (Optional), Rear Seat Heat Mode to the High, Rear Seat Vent Mode to the High, Rear Seat Warmer Left(Optional), Rear Seat Warmer Right(Optional), 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 View Switch Indicator Output, Rear Washer Motor Output,

Rear Wiper Relay, Rear-Left View, Rear-Right View, Rear-SVM View, Rear-Wide View, RKE Tailgate Signal Output(to PTGM), RL Door Lock Relay, RL Door Unlock Relay, Room Lamp Output, RPAS Switch Indicator(Optional), RVM Switch Indicator Output, Safety ECU Enable Output (High), Safety Power Window Enable, SAHLS Actuator 20%, SAHLS Actuator 80%, Security Indicator (Option), Security LED Output, Selection Injector Group(A) of Engine Idle state for Dual Injec, Shift Control Solenoid Valve A(UD/C), Shift Control Solenoid Valve E(SS-A), Solenoid Thermal Expansion Valve - Close, Solenoid Thermal Expansion Valve - Open, SSB illumination Output (Power and GND), 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 Right, Stop Lamp, Sunroof Enable Output, Sunroof Power Relay control(Optional), SVM + DRVM(Driving Rear View Monitor), SVM + FrontLeft + FrontRight View, SVM + RearLeft + RearRight View, System Identification, Tail Interior Lamp, Tail Lamp Indicator, Tail Lamp Output, Tail Lamp Relay, TCI Bypass Valve(Turbo Only), TCS Valve-Left Front, TCS Valve-Right Front, Turbo dump(ReCirculation) Valve (RCV), Turbo waste gate(WGT) valve, 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 Relay Output, Variable Exhaust Flap, Variable Force Solinoid Valve - Exhaust Bank1 test, Variable Force Solinoid Valve - Intake Bank1 test, Variable Intake Manifold 1 (Option), Variable Intake Solenoid(Optional), Variable Oil Pump Solenoid, VESS Sound Play (5 Sec), VESS Sound Play (Until Stop Command), VVL Control Solenoid Valve - EX, B1, VVL Control Solenoid Valve - EX, B2, VVL Control Solenoid Valve - IN, B1, VVL Control Solenoid Valve - IN, B2, 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]

## New Kia Coverage

### 23 new Adjustment type special tests:

12V Battery SOC Calibration, Air Bleeding Mode, Auto Detected Configuration (ESC Only), Auto Detected Configuration Reset, Body Sensor Reset, CLU Variant Coding, Clutch Learning Read, Clutch Learning Reset, Clutch Learning Writing, ESC Variant Coding, Headlamp Leveling, iMEB Actuator Initialization, Longitudinal G Sensor Calibration(HAC/DBC Only), Resetting Adaptive Values, Resetting Auto Trans Adaptive Values, Seat Limit Position Setting, TPMS Reception Rate Measuring Mode, TPMS Test, Variant Coding, Vehicle Name Writing, WCT Reprogram, Wheel Sensor ID Writing, Write VIN

### 757 new Actuation type special tests:

(LED) DRL Lamp LH, (LED) DRL Lamp RH, 12V Latch Relay OFF, 12V Latch Relay ON, 3D View, 3LH SBR Left Indicator, 3rd Row SBR Center Indicator(Optional), 3rd Row SBR Left Indicator(Optional), 3rd Row SBR Right Indicator(Optional), 3RH SBR Center Indicator, 4th Row SBR Center Indicator(Optional), 4th Row SBR Left Indicator(Optional), 4th Row SBR Right Indicator(Optional), 4WD Lamp Control, AAF Forced Operation - Auto, AAF Forced Operation - Close, AAF Forced Operation - Open, A-C Compressor Relay, ACC Relay, Activate Assist Side Antenna, Activate Driver Side Antenna, Activate Hat Shelf Antenna, Activation Switch LED, Actuator Control - Apply, Actuator Control - Release, AFLS AIMG Mode, After Blower USM Set Off, After Blower USM Set On, Air Inlet Mode Selection-Fresh, Air Inlet Mode Selection-Recirculation, All Door Lock Signal Output(to PTGM), All LEDs, 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 BSD Indicator, Assist Door Courtesy Lamp Output, Assist Door Courtesy Lamp, Assist Door Lock Indicator, Assist Door Lock, Assist Door Unlock, Assist Heater Control, 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 Window Down (Option), Assist Power Window DOWN, Assist Power Window Up (Option), Assist Power Window UP, Assist Seat Belt Indicator, ASSIST SIDE COURTESY LAMP, Assist Side Puddle Lamp, Assist Side Repeater, Assist Side Window Auto Down, Assist Side Window Auto Up, Assist Side Window Down, Assist Side Window Up, Assist Window Auto Up, Assistant Side Outside Handle Antenna Output (Power and GND), ATM Solenoid, Auto Cut Relay, Auto Cut RLY, 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, AWD Mode Select, Back Up Lamp, Back Up Light On/Off, Battery Coolant Valve Operation Mode1 (Combined Mode) ON, Battery Coolant Valve Operation Mode1 (Separated Mode) ON, Battery EWP Operation Mode for Degassing and Circulation, BCM Buzzer Output (Internal/External), BCM Internal Buzzer Output, Bifunction Headlamp High LH Solenoid IPS Output, Bifunction Headlamp High RH Solenoid IPS Output, Blower Fan Motor-1Step, Blower Fan Motor-2Step, Blower Fan Motor-3Step, Blower Fan Motor-4Step, Blower Fan Motor-5Step, Blower Fan Motor-6Step, Blower Fan Motor-7Step, Blower Fan Motor-8Step, Blower Fan Motor-Off, BSD Indicator, Bumper Antenna Active, 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, 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 Mode Door - Floor, Console Mode Door - Vent, Console Off Door, Console On Door, Console Temperature Air Mix Door 0%, Console Temperature Air Mix Door 100%, Console Temperature Air Mix Door 50%, Control Solenoid Valve (VFS) A, 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), D\_DRL Relay, DBC/HAC Brake Lamp Relay, DBL(Dynamic Bending Light) Max Position-LH, DBL(Dynamic Bending Light) Max Position-RH, DBL(Dynamic Bending Light) Middle Position-Center, Dead Lock Relay, Dedicated DRL Left Output, Dedicated DRL Output (Option), Dedicated DRL Output, Dedicated DRL Right Output, Def Door - Close, Def Door - Open, Defogger - Deicer Relay, 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, Door Unlock Signal, Drive Mode Door Close, Drive Mode Door Open, 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 Relay, Driver Door Unlock, Driver Heater Control, Driver Mode Door-DEF, Driver Mode Door-DEF., Driver Mode Door-Defrost, 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, Driver Side Outside Handle Antenna Output (Power and GND), Driver Side Repeater, DRL Relay(Canada), DRV/AST Power Window Enable Output, DRV-AST Power Window Enable Output, E-Comp - Off, E-Comp - On, Electric Shuttle Valve-Left Front, Electric Shuttle Valve-Right Front, 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), Engine Coolant Filling Mode, EPB Apply RH and LH, EPB Release RH

and LH, EPB Status Lamp - OFF, EPB Status Lamp - ON, EPB Warning Lamp - OFF, EPB Warning Lamp - ON, ESS Brake Lamp Relay, ESS Lamp, ETC Motor, Europe Cornering Lamp Left Relay Output, Europe Cornering Lamp Right Relay Output, EVAP Leakage Test, 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 Left(FrontandRear) Output, Exterior Tail Lamp Rear Left Output, Exterior Tail Lamp Rear Right Output, Exterior Tail Lamp Right(Front and Rear) Output, Exterior Tail Lamp Right(FrontandRear) Output, External Buzzer Output, External Buzzer, 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(Option), FOB Battery Indicator, Folding Mirror Relay, Foot Lamp Output(Option), Foot Lamp Output, Front Air Flow Door - 0%, Front Air Flow Door - 100%, Front Air Flow Door - 50%, Front BLDC Blower Motor 0RPM, Front BLDC Blower Motor 1000RPM, 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 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 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 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 Door Open Solenoid Output, Fuel Lid Lock Motor, Lock, Fuel Lid Lock Motor, Unlock, Fuel Pressure Indicator Lamp(LPI), Fuel Pressure Ragulator (GDI Only), Fuel Pump Control, Fuel Pump Relay, Fuel Tank Isolation Valve, Full AFLS BPS Test Class C, Full AFLS BPS Test Class E, Full AFLS BPS Test Class E1, Full AFLS BPS Test Class E2, Full AFLS BPS Test Class HIGH, Full AFLS BPS Test Class V, Full AFLS BPS Test Class W, Full AFLS BPS Test LED OFF, Gauge ON, Glove Box Lamp Output, HAC Brake Lamp Actuator, Handle Fold - Left Side, Handle Fold - Right Side, Haptic Steering Wheel Motor Output, Haptic Steering Wheel Output, Hat Shelf Antenna Output (Power and GND), Hazard Indicator, Hazard Mode State for Turn Signal Lamp Sequential Mode, 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 - Normal Position, Head Lamp Leveling Max(High) Position, 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, Head Lamp Welcome Command, Heated Handle Indicator(Option), Heated Handle Indicator, Heated Handle Output(Option), Heated Handle Output, Heated Washer Nozzle Output, Heated Washer Nozzle Relay, Heater step 3 operation, HICM Activate Diagnostics, HICM Relay, High Mounted Stop Lamp Output, High Mounted Stoplamp Control, HLL(Head Lamp Leveling) Middle(Center) Position, Horn Relay(NA), Horn Relay, HV PTC OFF, HV PTC ON(Min.), IGN1 Relay, IGN2 Relay, 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 Indicator, 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, Inlet Valve-Left Front, Inlet Valve-Left Rear, 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 Antenna 1, Interior Antenna 2, Interior Lamp Autocut Relay Output(Optional), Interior Mood Lamp Output (Option), Interior Mood Lamp Output, IOD Relay, ISG Test(Optional), Key Hole Illumination (Manual Key Type), Key Hole Illumination, Key Interlock Solenoid(Manual Key Type), Key Out Indicator, Lamp Control - EPB Status Lamp, Lamp Control - EPB Warning Lamp, Lamp Control, Lamp Load Power Relay, LampLoad AutoCut IPS Output, Left Stop Lamp, LongTermLoad Cut Relay Output, Luggage Lamp Relay, Luggage Lamp, Main Relay (+) ON, Main Relay(-) ON, Main Relay(-), Precharge Relay, Simultaneously ON (Precharge se, Main Relay, Maintenance Mode - Apply Motor LH(Caliper Type Only), Maintenance Mode - Apply Motor RH(Caliper Type Only), Maintenance Mode - Apply(Cable Type Only), Maintenance Mode - Release Motor LH(Caliper Type Only), Maintenance Mode - Release Motor RH(Caliper Type Only), Maintenance Mode - Release(Cable Type Only), Manual HLLD Signal Output, MAP Lamp, Mirror Folding Operation (Option), Mirror LED Left, Mirror LED Right, Mirror Select Left indicator, Mirror Select Right indicator, Mirror Unfolding Operation (Option), Mood Lamp 1 Output, Mood Lamp 2 Output, Mood Lamp 3 Output, Mood Lamp Output, Motor Test, 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 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 (Height), Move P/Seat to the Foremost Position (Slide), 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), 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(Optional), Oil Control Valve - Exhaust Bank2, Oil Control Valve - Intake Bank1, Oil Control Valve - Intake Bank2, Openbed Box

Lamp Output, Openbed Cargo Lamp Output, Openbed Lamp Switch Indicator Output, Operate ASSIST SIDE FOLD, Operate ASSIST SIDE UNFOLD, Operate Assist Side Fold, Operate Assist Side Unfold, Operate Assist Side Window Auto Down, Operate Assist Side Window Down, Operate Assist Side Window Up, 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, 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 Buzzer Output (RPAS Buzzer Output), PAS Indicator (RPAS Off 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), 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/IGN2 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-STARTER Relay of Main MCU, Power Window Relay, Precharge Relay ON, Precharge Relay ON, Main Relay (-), (+) ON (Normal sequence), Pressure Control Solenoid (LP), Puddle Lamp Output, 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, 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 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 Assist Window Up, 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 DN Output, Rear Curtain Down Output [Rear Curtain Hall Sensor Power Output, Rear Curtain Up Output [Rear Curtain Hall Sensor Power Output(O, Rear Curtain Up Output, Rear Defogger Relay, Rear Driver B-PILLAR Door - 0%, Rear Driver B-PILLAR Door - 100%, 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 Fog Lamp, Rear illumination, Rear Left Door Lock Indicator Output, Rear Left Power Window Down (Option), Rear Left Power Window DOWN, Rear Left Power Window Up (Option), Rear Left Power Window UP, 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 Mood Lamp (Both Left and Right), 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 Pocket Lamp(Both Left and Right), Rear Power Window Enable Output (Option), Rear Power Window LH Up Relay, Rear Power Window LOCK, 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 DOWN, Rear Right Power Window Up (Option), Rear Right Power Window UP, 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 Room Lamp Output, Rear SBR Symbol Indicator Output(Option), Rear Seat Belt Center Indicator (Option), Rear Seat Belt Center Indicator, Rear Seat Belt Left Indicator (Option), Rear Seat Belt Left Indicator, Rear Seat Belt Right Indicator (Option), Rear Seat Belt Right Indicator, Rear 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 View Switch Indicator Output, Rear Washer Motor Output, Rear Washer Motor, Rear Wiper Relay (Option), Rear Wiper Relay, Rear-Left View, Rear-Right View, Rear-SVM View, Rear-Wide View, Right Stop Lamp, RKE Tailgate Signal Output(to PTGM), RL Door Lock Relay, RL Door Unlock Relay, Room Lamp Output, RPAS Switch Indicator (Option), Safety ECU Enable Output (High), Safety Power Window Enable, Safety Power Window Sunroof Enable, SBL Function Test SBL LH ON, SBL Function Test SBL ON(ALL), SBL Function Test SBL RH ON, Security LED Output, Security LED, Shift Control Solenoid Valve A(UD/B), Shift Control Solenoid Valve B(2-6/B), Shift Control Solenoid Valve C(35R/C), Shift Control Solenoid Valve D(OD/C), Shift Control Solenoid Valve E(SS-A), ShortTermLoad Cut Relay/IPS Output, ShortTermLoad Cut Relay-IPS Output, Solenoid Thermal Expansion Valve - Close, Solenoid Thermal Expansion Valve - Open, SSB illumination Output (Power and GND), SSB Illumination, SSB LED Amber, SSB LED Blue/Red, SSB LED OFF, SSB LED White, Start Inhibit Relay (Option), Start Inhibit Relay, Starter 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, Stop Lamp Left/Right/HMSL Output (Option), Stop Lamp Left-Right-HMSL Output (Option), Stop Lamp Right, Stop Lamp, Storage Bos Lid Release Relay Output, Sunroof Enable Output, SunRoof Power Relay control, Tail Interior Lamp, Tail Lamp Indicator, Tail Lamp Output(Exterior), 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, Torque Converter Clutch Solenoid Valve, Torque Coupling Control, TPM Tread Lamp, TPMS Diagnostic Lamp, Trunk Antenna, 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, Unfold Mirrors, User Option, Vacuum Pump (ELCM), Variable Intake Solenoid(Option), VCM Motor (Option), VESS Sound Play (5 Sec), VESS Sound Play (Until Stop Command), Window Lock Indicator, Window Lock to Assist Door Module, Window Lock to Driver Door Module, Wiper High Relay, Wiper High-Speed Relay [Wiper High RLY With Wiper Power RLY], Wiper Low Relay, Wiper Low-Speed Relay [Wiper Low RLY With Wiper Power RLY], Wiper Power Relay, Wiper Relay (for INT)[Wiper RLY With Wiper Power RLY], Wiper Relay

## New Nissan Coverage

- Added coverage for 554 new system applications

### 215 new Adjustment type special tests:

A/F Initial Learning, A/F Sensor Response Diagnosis Status B1, A/F Sensor Response Diagnosis Status B2, Active Control Engine Mounting A, Active Control Engine Mounting B, Adaptives After Replacing Particulate Filter, Adjustment: Type Of Alarm Signal, AFT Maintenance, After Camshaft Position Sensor Replacement, After Clutch Pedal Switch Replacement, After Crankshaft Position

Sensor Replacement, After Electric Throttle Control Actuator Replacement, After Fuel Injector Replacement, After Fuel Rail Pressure Sensor Replacement, After High Pressure Fuel Pump Replacement, After Turbocharger Replacement, After Turbocharger Solenoid Valve Replacement, Air Bleeding, Air Fuel Ratio Correction Value, Air Fuel Ratio Sensor, ALC Setting, Anti Theft Alarm Trigger Setting, Anti-Lock Out Set, AP Position Learn Clear, Auto Door Lock, Auto Light Logic Setting, Auto Park Inhibition, Automatic Door Lock/Unlock Setting, Automatic Door Locking, AUTOMATIC DOOR UNLOCK SELECT, Automatic Lock Setting, Automatic Unlocking, Auxiliary Gearbox Clutch Point Learning, Battery Discharge Current Integration Clear, BCM Diagnosis When Engine Does Not Start, BCM Diagnosis When the Door Lock Is Malfunctioning, Blind Spot Detection Configuration, Blind Spot Detection Shut-Off Requester Test, Blow Mode, Blow Set, Cause of Auto Cancel 2, Cause of Auto Cancel 4, Cause of Auto Cancel 6, CC/SL Program, Check Fuel Lines, Clear Air-Fuel Ratio Learning, Clear ETC Learning, Clear E-VTC Op Learned Angle (Exh), Clear E-VTC Op Learned Deviation Angle (Exh), Clear FFD, Clear LPG Air-fuel Ratio Learning, Clear Normal TAS Learning, Clsd Thl Pos Learn, Clutch Pedal End Stroke, Clutch Point Learning, CLUTCH SENSOR RESET, CML Battery Discharge Current Integration Clear, CO Adjustment, Communication Test With Key, Computer Programming, Conform CVTF Deterioration, Cumulative Sub-Battery Discharge Current Clear, Custom A/Light Setting, Decel G Sensor Calibration, Diagnosis for Remote Engine Starter, Door Motor Starting Position Reset, Door Open Detection Acoustic Alarm, Door unlocking Driver door/all doors, Door Unlocking Triggering Delay, DPF Regeneration, Dual battery relay voltage drop count data clear, ECO Mode Reset Function, EGR Control Valve Closed Position Learning, Electric Intake Valve Timing Control Learning, Electric Oil Pump Air Bleeding, Engine Adaptive, Engine basis parts value 1 and 2 clear, Engine Brake Adjustment, Engine Start by I-Key, Erase Calibration Data, Erase Learning Value, Erase Memory Data, Erase Statistic Memory, Ethanol Concentration, EVAP System Close, FEB Operation Mileage, 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, FRE Memory Set, Front Camera Guidelines Correction, Fuel Pressure Release, Fuel Supply Prevention, FWD Clutch Point Learning, G Sensor Calibration, Gas Sensor Adjustment, GPF Service Regeneration Reset Routine Execution, Head Light Timer, High Pressure Fuel Circuit Fault Finding, High Pressure Fuel Pump Total Starts Counter Clear, Horn With Keyless Lock, ID Read, ID Registration, Idle Air Volume Learn, Ignition Battery Saver Set, Ignition Timing (ADV), Illumination Delay Setting, Initialization Position Adjustment, Injection Pump Adaptive, Injection Timing, Interior Light/Door Lock Interaction Setting, Interval of Oil Change (OCS) Oxidation, Key Acknowledgement Signal On Locking, Key Acknowledgement Signal On Unlocking, Key Battery Flat Warning, Lane Dep.Warning Camera Shut-Off Requ.Test, Lane Departure Warning Camera Configuration, Launch Control Counter Reset, Levelizer Adjustment, Lock/Unlock By I-Key, Longitudinal G Sensor Calibration, M/T Neutral Pos Learn, Misfire Count (Past), Misfire count (real-time), Multi Answer Back Setting, Number of Starting 1, Number of Starting 2, Number of Starting 3, Number of Starting 4, Number of Starting Cycles, Oil Change Interval (OCS) Dilution, Panic Alarm Triggering Delay, Pressure Sensor Initialization, Program Key Fobs, Programmed Values, Programming Reinitialization, Programming Selections/Engaging Zones, R Lamp Timer Logic Setting, Rear Door Window Open Detect. Acoustic Alarm, Rear Lid Unlocking Triggering Delay, REC Memory Set, Regeneration of Gasoline Particulate Filter, REMO CONT ID CONFIR, Remo Cont ID Erase, REMO CONT ID REGIST, Reset Adaptation Values for Shift Operation, Reset Adaption To Factory Setting, Reset Fuel And Timing Learn Tables, Reset Fuel Consumption Short Term Log, Reset to Default Settings, Reset Vehicle Height Initial Value, Retained Power Setting, Reversing Camera Guidelines Correction, Room Lamp Off Timer Setting, Room Lamp On Timer Setting, Room Lamp Timer Setting, Rotary Position Sensor Learn, RTCV Actuator Calibrate, Save Computer Data, Save/Write Data for CPU Replace, Save/Write VIN Data, SC Magnetic Clutch Engage Count Clear, Self-Learning Cont, Set R-DEF Timer, Set Rear

Temperature Correction, Set Temperature Correction, Shift Drum Reference Position, Solenoid VTC Operation Start Duty Learning, Start Brake Pad Replacement, Start Initial Calibration, Start OBD test: Catalytic converter, Start OBD test: O2 sensors, Starter Operation Count Clear, Starter Operation Counter Clear, Steering Angle Initialization, Steering Angle Sensor Adjustment, Stop/Start engine restart cause data recorder, Stop/Start engine stall cause data recorder, Stop/Start prohibit cause data recorder, Sub-Starter Generator Oper Count Clear, Supercharger Magnet Clutch Engagement Count Clear, System Mode Change, Target Evaporator Temperature Upper Limit Setting, Target Idle RPM Adjustment, Target IGN TIM ADJ, Target Ignition Timing Hold, Tcu Activate Setting, Teach-in Of Selection Range Sensor, Temp Set Correct In Deg C, Temp Set Correct In Deg F, Tire Pressure Sensor Registration, Upshifts, V/T Control Learn, Valve Calibration, Valve Check, Valve Flushing, Valve Timing Adjustment, Valve Timing Offset Data Clear, Valve Timing Offset Data Writing, Vcr Base Position Learning, VIN Registration, VVEL Position Sensor Adj Prepare, Waste Gate Actuator Position Learning Value Clear, Waste Gate Regulation, Weight Classification Sensor Reset, Wiper Speed Setting, Write Fuel Learn Value, Write High Pressure Fuel Pump Total Starts Count, Write Saved Data, Write Starter Operation Count, WRITE VIN(MANUAL INPUT), Write VIN, Zero Point Calibration

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

(TBD)EAP FAIL IND, (TBD)Epkb Request, (TBD)EPS Reaction Force Request, (TBD)Hand Free Warning, (TBD)LDP L STEP, (TBD)OH Steeringheaterreq, 12V BATTERY CHARGE W-L, 4WD AT Flow, 5TH BOW SYSTEM, A/C Compressor Relay Control, A/C Compressor, A/C Indicator, A/F Sensor Heater, AAC/V Output Duty, AAC/V Output Step, ABS Motor, AC Compressor Relay, AC Compressor, A-C INDICATOR, ACC Indicator Lamp, ACC Indicator, Accelerator Pedal Actuator Test 1, Accelerator Pedal Actuator Test 2, Accy/RAP Relay, Activate Demo Mode Of Exterior Lamp, Activate the Starter Cut Relay, Active Grille Air Shutter, Active Grille Shutter, Active Pedal, ADAS Buzzer 2, ADAS BUZZER, Advanced Homogeneous Direct Injection Angle, Advanced Stratified Direct Injection Angle, AEB Disp, A-F Ratio Cntrl Stop Stratified Chrg Cmb Trnsfr, Air Bypass Valve Solenoid, Air Cond Rly, Air Conditioner Relay Output, Air Conditioner Test, Air Inlet Control Flap On Front End Panel, Air Inlet Flap, Air Pump Relay, Air Pump, Air/Liquid Pump Of Camera, ALC Disp, ALC Level, ALL INDICATORS DRIVE, All LCD Segments, All Light, ALL SEG, All Shock Absorber, Alternator Duty Cycle, Alternator Duty, Alternator Voltage, Ambient Light 1, Ambient Light 2, Ambient Light 3, Ambient Light 4, Ambient Light 5, Ambient Light 6, Ambient Light 7, Ambient Light 8, ANC Test Tone, Answer Back With I-Key Unlock, Antenna Self-Test, Anti Key Lock In Function, ARC Disp 2, ARC Disp, ARC operation indication, AS Seat Lamp Test, Assist Seat Lamp Test, ATC 1 Disp, ATC 2 Disp, ATC 3 Disp, ATC 4 Disp, ATC 5 Disp, Auto ACC 1, AUTO ACC 2, Auto retractable door mirror, Auto Stop Start, Automatic Back Door, Automatic Brake Hold Lamp Active, Automatic Brake Hold SW Lamp Active, Back Door open Test, Battery Saver, BCI Warning Indicator, Boost Pressure, Booster Solenoid, Boot/Trunk Open, 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 Actuator, Brake Hold Disp, Brake Hold Display, Brake Operation, Brake Release, Brake SW, Brake Switch, BSI Indicator On, BSI ON Indicator, BSI Warning Indicator, BSW Indicator LH, BSW Indicator RH, BSW On Indicator, BSW Warning Lamp, BSW/BSI INDICATOR DRIVE, BSW/BSI WARNING LAMP, BSW-BSI INDICATOR DRIVE, BSW-BSI WARNING LAMP, BUZZER 1 (ADAS), BUZZER 1 (CCM), BUZZER 2 (ADAS), BUZZER 2 (CCM), BUZZER 3 (ADAS), BUZZER 3 (CCM), BUZZER 4 (ADAS), BUZZER 4 (CCM), BUZZER DRIVE, Buzzer, Camshaft Dephaser: Solenoid Valve Slide Movement, Camshaft Positioner, Canister Bleed Solenoid Valve, Canister Drain Cut Valve, Cargo Lamp Output, Catalyst Exhaust Gas Downstream O2 Resistance Heater PWM, Catalyst Exhaust Gas Upstream O2 Resistance Heater PWM, Cause of Auto Cancel 1, Causes Of Engine Stop Prevention, CBV Position Override, Charge Air Cooler Cooling Electric Water Pump, CHARGE STAT INDICATOR 1,

CHARGE STAT INDICATOR 2, CHARGE STAT INDICATOR 3, Charge Status Indicator 1, Charge Status Indicator 2, Charge Status Indicator 3, Check Activated Canister Shutoff Valve, Check Boost Pressure Control, Check Component Purging Pressure Control, Check Coolant Pump Switchover Valve, Check Coolant Thermostat Heating Element, Check Cylinder Fuel Injectors For Leaks, Check Cylinder Fuel Injectors, Check Deceleration Air Switchover Valve, Check Engine And AC With Integrated Control Fan Motor, Check Engine Oil Pump Valve, Check Exhaust Camshaft Solenoid, Check Fuel High Pressure Circulation for Leak Tightness, Check Fuel Pressure And Temperature Sensor Rail Pressure, Check Fuel Tank Pressure Sensor, Check Intake Camshaft Solenoid, Check Intake Port Shutoff Actuator Motor, Check Purging Switchover Valve, Check Quantity Control Valve, Check Throttle Valve Actuator, Check Valve Bypass Valve, CNG Cylinder Shutoff Valve, Command St Whl Forc, Command Steering Angle, Component Quantity Control Valve, Compressor, Confirm Dongle ID, Continuously Variable Valve Timing Control Side Intake, Coolant Circulation Switching S/V, Coolant Temperature, Cooling Fan, Cornering Lamp Test, CORNERING LAMP, C-SCV Target Step (Bank1), C-SCV Target Step (Bank2), C-VTC Target Angle, Cylinder Cutout Test, Daytime Running Light, DCA Indicator, DC-DC Conv Duty, DEF Dosing Unit Override Test, DEF Line Heater Test, DEF System Leak Test, DEF Tank Heater Test, DIG Power Balance Cylinder 1, DIG Power Balance Cylinder 2, DIG Power Balance Cylinder 3, DIG Power Balance Cylinder 4, DIG Power Balance Cylinder 5, DIG Power Balance Cylinder 6, DIG Power Balance Cylinder 7, DIG Power Balance Cylinder 8, Display: Headlamp Leveling, Display: Test, Door Handle Lamp Test, Door Lock / Unlock, Door Lock Ind, Door Lock Indicator, Door lock status indicator, Door Lock, Door Mirror LED LH, Door Mirror LED RH, Door Warning Lamp, DOWNSTREAM OXYGEN SENSOR HEATING, Drive Mode Test, Drive Power Distribute Torque, Driver Door Lamp, Driver Seat, EAP SW LAMP, EAPM Warning Lamp, ECO Indicator Lamp, ECO Tree, EGR Cont (Mode 1), EGR Cont (Mode 3), EGR Control Valve, EGR Cut Solenoid, EGR Solenoid, EGR Vol Cont/V, EGR VOL CONT-V, EGRC Solenoid Valve, Electric Fan Override Test, Electric Parking Brake Activation, Electric Water Pump, Electrical Control EGR Target Step, Electrical Control Engine Mount Motor, Electronic Throttle Control, ENG COOLANT TEMP, Engine Coolant Bypass Valve, Engine Coolant Electric Water Pump, Engine Coolant Temperature, Engine Fan Override Test, Engine Mounting, Engine Oil Pressure Control Solenoid Valve, Engine Piloted Oil Pump, ENGINE SPEED OUTPUT TEST, Engine Start Request, Engine Start, Engine Sw Illumi, ESS Active, ESS Relay Active, ETC Correction Valve, ETS Solenoid Control, ETS S-V, EV SYSTEM W-L, EVAP Canister Purge Control Solenoid Valve, EVAP CNT Duty Valve Open, EVAP Leak Diag, EVAP Leak Mode8, EVAP Leak P1441, E-VTC Target Angle (Exhaust), EXH V-T ASSIGN ANGLE, Exhaust Air Flap, Exhaust Camshaft Dephaser Solenoid Valve, Exhaust Camshaft Set Point, Exhaust Fuel Injector, Exhaust Gas Recirculation Cooler Bypass Valve, Exhaust Solenoid, Exhaust Valve Timing Assign Angle, Exhaust Valve Timing Control Solenoid Valve, Exterior Lamps, External Buzzer, EXTERNAL LAMPS, Fan Duty Control, Fan Unit High Speed Relay, FAN UNIT HIGH SPEED, Fan Unit Low Speed Relay, FAN UNIT LOW SPEED, FL Shock Absorber, FL Tire Disp, Flasher test, Flasher, FLAT TIRE WARNING, Flex-Fuel Additional Pump, Flex-Fuel Additional Solenoid Valve, FLYWHEEL TARGET PROGRAMMING, Fog Lamp Override, FPCM, FR Fog lamp, FR Left SEAT Heater, FR LH ABS Solenoid (ACT), FR LH ABS SOLENOID(ACT), FR LH SOL, FR RH ABS Solenoid (ACT), FR RH ABS SOLENOID(ACT), FR RH SOL, FR Right SEAT Heater, FR Shock Absorber, FR Tire Disp, Fr Wiper, Fresh Air Memory, Front Assist Window, Front Buzzer, Front Driver Window, Front Fog Lamp, Front lamp, Front Left Solenoid, Front Right Solenoid, Front window defogger (driver side), Front window defogger (passenger side), Front Wiper Test, Front Wiper, F-S CHG RLY, Fuel Flow Actuator, Fuel Flow Solenoid Valve, Fuel Heater Relay, Fuel Heater, Fuel Injection, Fuel Lid Open Indicate, FUEL LID OPEN, FUEL METER DIAGNOSIS(ANALOG METER ), Fuel Pressure Solenoid Valve, Fuel Pump Control Module, Fuel Pump Relay 2, Fuel Pump Relay 3, Fuel Pump Relay, Fuel Pump, Fuel Rail Pressure Control Valve, Fuel Rail Pressure, Fuel Return Valve, Fuel Shutoff Valve 1, Fuel Shutoff Valve 2, Fuel Shutoff Valve 3, Fuel Shutoff Valve, Fuel Supply Pump Override Test, Fuel System Leakage Test, FUEL-T TEMP

SEN, Gas Pump Command State, Glow Relay, HALF BACK DOOR, Hazard Answer Back, Hazard Lamp, HDC DISP, HDC Display, Head Lamp High, Head Lamp Washer, HEAD LAMP(HI), Head Lamp, Head Lamps, Headlamp High, Headlamp Low, Headlamp Washer, Heater Relay Unit, Heater Valve Flow, HEATING RESISTOR RELAY 1, HEATING RESISTOR RELAY 2, HEATING RESISTOR RELAY 3, High Beam Assist Test, High Beam Lamp Test, High Pressure Circuit Leak Test, Horn Acknowledgement Signal, Horn Chirp Test, HORN LAMP, Horn Test, Horn, Horn-IPDM-E, Horn-Multi Remote Ent, HPCR Fuel Act Override, Hv Battery Cooling Fan, HVAC Test, Hydraulic Control, HYDRAULIC PRESSURE RELEASE, IACV-AAC/V Opening, ICC Buzzer, ICC Warning Lamp, ID REGIST WARNING, Idle Target RPM, Ign Cont2, IGN KEY WARN ALM, Ignition Accessory Battery Saver, Ignition Cont1, Ignition Cont2, Ignition Cylinder 1, Ignition Cylinder 2, Ignition Cylinder 3, Ignition Cylinder 4, Ignition Illumination, Ignition Key Gong, Ignition Key In Alarm, Ignition Key Warning Alarm, Ignition On Ind, Ignition On Warning System, Ignition Relay, Ignition Switch LED Power, Ignition Timing (Mode 1), Ignition Timing (Mode 3), Ignition Timing Adjustment, Ignition Timing, Ill Dim Signal, Illumination Dim Signal, Immobilizer Lamp, INDICATOR LAMP DRIVE, Indicator, Injection Pressure Regulator, Injector Cylinder 2, Injector Cylinder 3, Injector Cylinder 4, Injector-Cylinder 1, Inside ANT Diagnosis, Inside Buzzer, Instrument Cluster Indicat. Lamps, INT LAMP, INT V/T ASSIGN ANGLE, INT V-T ASSIGN ANGLE, Intake Duct S/V, Intake Manifold Pressure Solenoid, Intake Valve Timing Control Solenoid Valve, Intank Fuel Temperature Sensor, INTELLIGENT KEY LINK (CAN), Intelligent Key Link, Interior Lamp, Interior Lamps, Interrupt Disp, Key Fob Low Battery Warning, Key Fob Power Window Test, Key Lock Solenoid, Key Reminder Warn, Key Reminder, Lamps, Lane Departure W/L, Lane Departure Warning Display, LANE DEPARTURE W-L, LCD, LDP Buzzer, LDP ON IND, Ldp On Indicator, LDP Warning Indicator, LDP Warning Lamp, LDW On Indicator, LDW Warning Indicator, LDW Warning Lamp, LED LH INDICATOR, LED, Left Exterior Mirror LED Test, Left Solenoid, Levelizer Test, Lifting motor, Light On Alarm, LIGHT WARN ALM, Lock (Central Locking), Lock Doors, Lock Indicator, Lock Operation, Low Beam Swivel Test Left, Low Beam Swivel Test Right, LOW BEAM TEST LEFT, LOW BEAM TEST RIGHT, Low Pressure Fuel Pump, Low-Beam Headlight Left, Low-Beam Headlight Right, LPG Air Fuel Ratio Revision Value, LPG Shutoff Valve Relay, Luggage Lamp Test, Lumbar support (Up-Down) motor, Malfunction Status Of Stop/Start System, MAP/Baro SW/V, Master Warning Active, Memory Indicator 1, Memory Indicator 2, MEMORY SW INDCTR, Meter Buzzer, Meter Lamp, Mirror +5 V Test, MIRROR MOTOR LH, MIRROR MOTOR RH, Mixture Ratio, Mode 1 DIG Power Balance Cylinder 1, Mode 1 DIG Power Balance Cylinder 2, Mode 1 DIG Power Balance Cylinder 3, Mode 1 DIG Power Balance Cylinder 4, Mode 1 DIG Power Balance Cylinder 5, Mode 1 DIG Power Balance Cylinder 6, Mode 1 DIG Power Balance Cylinder 7, Mode 1 DIG Power Balance Cylinder 8, Mode 3 DIG Power Balance Cylinder 1, Mode 3 DIG Power Balance Cylinder 2, Mode 3 DIG Power Balance Cylinder 3, Mode 3 DIG Power Balance Cylinder 4, Mode 3 DIG Power Balance Cylinder 5, Mode 3 DIG Power Balance Cylinder 6, Mode 3 DIG Power Balance Cylinder 7, Mode 3 DIG Power Balance Cylinder 8, Motor Fan, MOTORISED THROTTLE, Oil Pressure Sw, Oil Pressure Switch, Optic Axis Active Test, Outside Air Temperature Diagnosis, Outside Buzzer, Oxygen Sensor 1 Heater, Oxygen Sensor 2 Heater, P Range, P/REG CONT SOL/V, Panic Alarm, Parcel Shelf, Parking Brake Full Release, Parking Lamp, Partial Load Operation Crankcase Ventilation Valve, Passenger Door Lamp, PB SW indicator ON, PBD, Pedal Motor, Plug In Indicator, Power Balance (Cylinder #1), Power Balance (Cylinder #2), Power Balance (Cylinder #3), Power Balance (Cylinder #4), Power Balance (Cylinder #5), Power Balance (Cylinder #6), Power Balance (Cylinder #7), Power Balance (Cylinder #8), Power Balance, Power Limitation Indicator, Power Slide Door, Power Sliding Door, POWER WINDOW (LH-RH), Power Window Down, Power Window Remote Down Set, PRES Regulator, Pressure Control Solenoid A, Pressure Control Solenoid B, Pressure Control Solenoid C, Programming CI Touch Point, PROGRAMMING THROTTLE LIMITS, PRVR Solenoid, PSD PBD Open Test, PTC Heater Relay 1, PTC Heater Relay 2, PTC Heater Relay 3, PTC Relay-1, PTC Relay-2, PTC Relay-3, Purg Vol Cont/V, PURG VOL CONT-V, Purg Switchover Valve, Push Switch Indicator, Quick Charge Permit Signal

Circuit, Quick Charge Relay +, Quick Charge Relay -, RAB Warning Lamp (Malfunction), RAB Warning Lamp (Operation), Radiator Fan Drive, Radiator Fan Output Hi, Radiator Fan Output Lo, Radiator Fan Relay Test, Radiator Fan Relay, RCTA-BSW Indicator, Read Tire Id, READY Indicator Lamp, Ready Indicator, Rear Assist Window, Rear Buzzer, Rear Defogger Indicator, Rear Defogger, Rear Driver Window, Rear Left Door Lamp, Rear Left Solenoid, Rear O2 Diagnosis, Rear Right Door Lamp, Rear Right Solenoid, Rear Window Defogger, Rear Wiper, Reclining motor, Recycle Air Memory Switch, Release Hand Warning, Remote Engine Starter, Retractable Mirror, Reverse Gear Reset Values Of Shift Operations, Reverse Lamp Relay, REVERSE LAMP RLY, Reverse Lamp, Reverse Warning, Right Exterior Mirror LED Test, Right Solenoid, Rise Up Wiper Test, RL Shock Absorber, RL Tire Disp, ROOF LATCHED LH-RH, ROOF STATE OUTPUT(AUDIO), ROOF SYSTEM, Roof, RR Fog Lamp, RR LH ABS Solenoid (ACT), RR LH ABS SOLENOID(ACT), RR LH SOL, RR O2 Sensor Heater, RR RH ABS Solenoid (ACT), RR RH ABS SOLENOID(ACT), RR RH SOL, RR Shock Absorber, RR Tire Disp, RR Wiper, RTCV Hysteresis Test, RUN FLAT TIRE W/L, Run Flat Tire Warning Buzzer, RUN FLAT TIRE W-L, RUN FLAT-T WARN BUZZER, SCB/V Cont SOL/V, SCR Performance, SCV Solenoid, Seat belt lamp test, Seat Belt Warn Test, SEAT LIFT, SEAT LIFTER FR, Seat Lifter Front, Seat Lifter Rear, SEAT LIFTER RR, SEAT LIFTER, Seat Reclining, SEAT SLIDE, Secondary Air Cut Solenoid, Security Horn, Security Indicator, Setting Initialize Completion Flag, Shift Lock Solenoid, Shift Solenoid A, Shift Solenoid B, Shift Solenoid C, Shift Solenoid D, Shift Solenoid E, Shift Spot Lamp Test, SHIFTLOCK SOLENOID TEST, SHIFTLOCK SORENOID TEST, Short Cranking Output, Siren, Sliding motor, Slow Mode, SOFT TOP SYSTEM, Solenoid Actuator Driving FR 2 Wheels, Solenoid Actuator Driving FR-LH, Solenoid Actuator Driving FR-RH, Solenoid Actuator Driving RR 2 Wheels, Solenoid Actuator Driving RR-LH, Solenoid Actuator Driving RR-RH, Solenoid Driving FR-LH, Solenoid Driving FR-RH, Solenoid Driving RR, Solenoid Driving RR-LH, Solenoid Driving RR-RH, Sonar buzzer, Speaker Mute Signal, Speed Sensor Function, START Button Illumination, Start Up Sound Speaker, Starter Cut Relay, Stationary Cornering Lamp Low, Steering Reaction Force Activation, Step Lamp Test, Stop Current Command, Stop Lamp 1, Stop Lamp 2, Stop Lamp 3, Stop Lamp Off Relay 1 Active, Stop Lamp Off Relay 2 Active, Stop Lamp Off Relay, Stop Lamp ON Relay Active, Stop Lamp On Relay, Stop Lamp, Stop Light Relay, Stop start OFF switch indicator, STORAGE LID, Stratified Direct Injection Timing Angle, Stratified EGR Position, Sub Fuel Cont Sol /V, Sub Fuel Pump Relay, Super Charger Clutch Relay, Super Lock, Supercharger Clutch Relay, SWIRL CONT SOL VALVE, Swirl Control Valve, Switch lamp 2, Switch lamp 3, Switch Lamp, SYSTEM ON LAMP DRIVE, Tail Lamp, Tail Light, TANK FUEL TEMPERATURE SENSOR, TARGET EGR ANGLE, Target EGR Position, Target Electric Throttle Control Angle, Target Equivalence Ratio Control, Target Fan RPM, Target Idle Speed, TC Bypass Valve, TC-SC BYPASS VALVE, TCV Power System Test,TELESCO MOTOR, THEFT IND, Theft Indicator, Thermostat Heater Control Solenoid Valve, Thigh support motor, Third O2 Sensor Heater, Third O2/S Diagnosis, Throttle Valve Position Setpoint, Tilt Motor, Tire Pressure Warning Lamp, TPMS ID flat tire warn, TPMS ID Registration Warning, TPMS LAMP WARN TEST, Truck Relay Test, Truck Unlock Test, Trunk Locall Identifier, Trunk Open Test, TRUNK OPENER, Trunk/Back Door, Trunk/Glass Hatch Open, Trunk/Glass Hatch, Trunk-back door, TRUNK-GLASS HATCH, Trunk-Luggage Lamp Test, Trunk-luggage lamp, Tumble Control Valve, TUMBLE CONTROL VALVE~TUMBLE CONTROL VALVE, Turbocharger Boost Control Actuator, Turbocharger Boost Control Solenoid Valve, Turbocharger Wastegate Solenoid Valve, Turbocharging Solenoid Valve, Turn Disp, Turn display (LH), Turn display (RH), TURN SIGNAL LAMP LEFT, TURN SIGNAL LAMP RIGHT, Unit Characteristics Data, Unlock Doors, Unlock Driver Door, Unlock Passenger Door, Unlock Rear Doors, UPSTREAM O2 SENSOR HEATING, V/T Assign Angle, Valve Tests, Valve Timing Sol, Variable Duct Solenoid Output, VC/V Bypass/V, VCR System, Vehicle Disp, Vehicle Height Standard Position Forcing Return, Vehicle Security Horn, VEHICLE SECURITYT HORN, Vent Control Valve, VENT CONTROL-V, VIAS S/V-1, VIAS Solenoid, VIAS S-V-1, VIAS S-V-2, Vibration Motor, VMC left turning operation indication, VMC Right turning operation indication, Voltage Control, Voltage Pattern Output,

VSP Off Indicator, VSP SPEAKER LH, VSP SPEAKER RH, VSP Speaker, VTC Solenoid, VVL Int Exh Solenoid Simultaneous Drive, VVL Solenoid Exhaust, VVL Solenoid Intake, W/G, Warning Buzzer, Warning Lamp, Warning System Indicator, Warning Tone Gen. Roof Position, Washer Fluid Pump Relay, Wastegate Actuator, Water Pump 1, Water Temperature, Welcome Light, Window lifter, front, Window lifter, rear left, Window lifter, rear right, YAW STEP L, YAW STEP R, Yellow Lane Dep. Warnng. Indic. Lamp

## New Subaru Coverage

- Added coverage for 68 new system applications

### 252 new Adjustment type special tests:

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

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

Wireless Lock Function with Doors Open, Wireless Trunk Lid Open Operation Adjust, Wireless Unlock Twice Function, Zero Point Calibration

### 633 new Actuation type special tests:

2nd START Indicator, 4LO Indicator, 4WD AUTO Indicator, 4WD Indicator (Green), 4WD Indicator (Yellow), 4WD Lock Indicator, 4WD Warning, A/C Change Setting, A/C Compressor Relay, A/C Relay, A/T Oil Temperature, ABS Sequence Control Mode, ABS Warning, A-C Driving Demand, Activate SL1 Solenoid, Activate SL2 Solenoid, Activate SL3 Solenoid, Activate SL4 Solenoid, Activate SLT Solenoid, Activate the (Inverter) Water Pump, Activate the Charger Cooling Fan, Activate The Solenoid (SC1), Activate The Solenoid (SC2), Active Grill Shutter Test, Active TRC Indicator, ACTIVE TRC Warning, Advanced Parking Guidance Indicator, AFS Indicator (Malfunction) Display, AFS OFF Indicator, AHS LH High Beam, AHS RH High Beam, Air Inlet Damper Control Servo Motor, Air Mix Door Actuator Target Open (Driver Side), Air Mix Door Actuator Target Open (Passenger Side), Air Suspension Indicator (HI), Air Suspension Indicator (LO), Air Suspension Indicator (N), Airbag Warning, Airmix Dr Act Trgt Open Angle (Drivers), Airmix Dr Act Trgt Open Angle (Pass), All Indicator, All Lamps, All seat UNLOCK output, All seats door warning, Alternator control mode, AM Seek Up/Down, Ambient Air Temperature setting, Ambient Temperature, ASL Indicator, ASL Warning, AST Indicator, A-T Indicator Operation (2), A-T Indicator Operation (3), A-T Indicator Operation (4), A-T Indicator Operation (B), A-T Indicator Operation (D), A-T Indicator Operation (L), A-T Indicator Operation (N), A-T Indicator Operation (P), A-T Indicator Operation (R), A-T Indicator Operation (S), A-T Indicator Operation (Sport M), A-T Indicator Operation (Sport S), A-T Oil Temperature Warning, A-T P Warning, Auto Air Conditioner Indicator, Auto Leveling Headlamp Indicator, Auto LSD Indicator, Auto Power OFF Cancel, AUTO switch mode setting, Auto Switch, Automatic High Beam Indicator (Green), Automatic High Beam Indicator (Yellow), Automatic High Beam Switch Light, Auxiliary Battery Warning, AVS Comfort Indicator, AVS Sports Indicator, AWD Linear Solenoid, AWD Mode Select, AWD Solenoid, AWD, Back Door Sensor Power Supply, Beep, Blower Fan Level Setting, Blower Level, Brake Hold Indicator, Brake Lamp Lighting Operation, Brake Maintenance Mode, Brake Override Warning, Brake Warning, Brightness, BSM Indicator, BSM OFF Indicator, BSM Warning, Buzzer Operation (1.6khz, Vol S, W-O Damping), Buzzer Operation (2.0khz, Vol S, W-O Damping), Buzzer Operation (2.4khz, Vol L, W-O Damping), Buzzer Operation (800hz, Vol L, W- Damping), Buzzer Operation (800hz, Vol L, W-O Damping), Buzzer Operation (800hz, Vol S, W- Damping), Buzzer Operation (800hz, Vol S, W-O Damping), Cancel Communication Function Pausing, Canister Purge Control Solenoid, Cargo Light, Center DIFF LOCK Indicator, Charge Indicator, Charge Warning (Red), Charge Warning, Charge, Check E/G warning, Check Engine Warning, Check Mode, Clearance Light (+ Front Side Marker Light), CNG Mode Indicator, Collision Door Lock Release, Color Check: Black, Color Check: Blue, Color Check: Cross Talking, Color Check: Gradation, Color Check: Green, Color Check: Red, Color Check: White, Color Test Screen (Adjustment), Color Test Screen (Black), Color Test Screen (Blue), Color Test Screen (Color Bars), Color Test Screen (Green), Color Test Screen (Red), Color Test Screen (White), Compression monitor, Compression Test, Connect The TC And TE1, Control the Motor/Generator Cooling Oil Pump, Control the Transmission Oil Pump, Coolant Circulation Valve Control, Coolant Cool Warning Lamp, Coolant Hot Warning Lamp, Cooling Electric Expansion Valve, Cornering Light-Front Side Illuminate Light (Dim), Cornering Light-Front Side Illuminate Light, CRAWL Indicator, CRAWL Warning, Cruise Indicator (Yellow), Cruise Indicator, D range display, Daytime Running Light, DCM Firmware Update, D-Door Unlock, Diag Recorder Data delete, Diag Recorder Data output, Diesel Particulate Filter Warning, Digital Audio Broadcast Antenna Check, Digital TV check, Dimmer Signal, Door Lock, Door Mirror Indicator Active Test, Door Open Warning, Door Unlock, Down range display, Downhill Assist Control Indicator, Downhill Assist Control Warning, Drift From The Lane Indicator, Drift From The Lane Warning, Driver Door, Driver Seat Belt Reminder, Driver Seat Sensor Power

Supply, Driver Side Seat Belt Warning, Dual-Range LO Indicator, E/G remaining oil warning, ECB Main Relay, ECB Solenoid (SLA), ECB Solenoid (SLR), ECB Utility, ECB Warning, ECO Mode Indicator, ECONO Indicator, ECT PWR Indicator, ECT SNOW Indicator, EGR Control, EGR Valve Control (Duty), ELCM pump, ELCM switching valve, Electrical Fan, Emergency Call Cancellation, Emergency Exit Warning, EPB Active, EPB Auto OFF Indicator, EPB Control Switch, EPB Hill Hold, EPS Indicator Lamp, EPS Warning, EV Drive Indicator, EV Mode Indicator, Exhaust Control Valve Control, EXO, Extended Illumination 1, Extended Illumination 2, EYESIGHT failure, Fixed Idle Ignition Timing, FM Seek Up/Down, FR Clutch Solenoid, Fr Control Rear Air Outlet Damper Servo Motor, Fresh/Rec Air Dr Act Trgt Open Angle, Front Air Mix Damper Control Servo Motor, Front Air Outlet Damper Control Servo Motor, Front Buzzer, Front Deicer Relay, Front Evaporator Magnetic Valve, Front Fog Lamp Indicator, Front Fog Light, Front Footwell Lights, Front Left Air Mix Damper Control Servo Motor, Front Left Air Outlet Damper Control Servo Motor, Front Left Seat Blower, Front Left Seat Heater, Front Right Air Mix Damper Control Servo Motor, Front Right Air Outlet Damper Control Servo Motor, Front Sliding Sunshade, Front Washer Relay, Front Wiper Hi Operation, Front Wiper Lo Operation, Fuel Cap Reminder Warning, Fuel efficiency gauge (ECO gauge) 1/2 scale command, Fuel efficiency gauge (ECO gauge) 1/4 scale command, Fuel efficiency gauge (ECO gauge) 3/4 scale command, Fuel efficiency gauge (ECO gauge) MAX scale command, Fuel efficiency gauge (ECO gauge) MIN scale command, Fuel Filter Warning, Fuel Gauge Indicator, Fuel Gauge Operation (1-2), Fuel Gauge Operation (1-4), Fuel Gauge Operation (3-4), Fuel Gauge Operation (Empty), Fuel Gauge Operation (Full), Fuel Gauge Operation (Sender E), Fuel Gauge Operation (Sender F), Fuel Gauge Operation (Warning), Fuel Gauge Operation For CNG (1-2), Fuel Gauge Operation For CNG (1-4), Fuel Gauge Operation For CNG (3-4), Fuel Gauge Operation For CNG (Empty), Fuel Gauge Operation For CNG (Full), Fuel Gauge Operation For CNG (Sender E), Fuel Gauge Operation For CNG (Sender F), Fuel Gauge Operation For CNG (Warning), Fuel Lid Lock Relay, Fuel Pump OFF, Fuel Pump Relay, Fuel sender E-point command, Fuel sender F-point command, Fuel Warning (CNG), Fuel Warning Lamp, Glass Hatch Open, GLOW Warning, Go To Service Warning, Green Indicator, HBA OFF/FAIL, HBA, Head Up Display Indicator, Headlamp Indicator, Headlight Leveling Indicator Display, Headlight Leveling Initialize Incomplete Display, Headlight Relay-Light Power Supply Relay, Headlight System Malfunction Display, Heater core temperature setting, Heater Valve, Heater Water Temperature Setting, Heating Electric Expansion Valve, Height High Indicator, Height High Warning, HID auto leveler, High Beam Headlight, High Beam Indicator, High Pressure Magnetic Valve, Hill start assist OFF/failure indicator, Hold Indicator, Horn Output, HV System Indicator (0%), HV System Indicator (100%), HV System Indicator (200%), HV System Indicator (300%), HV System Indicator (400%), HV System Indicator (-50%), HV System Indicator (MAX), HV System Indicator (MIN), HV Unit Hot Warning, HV-EV System Indicator (0%), HV-EV System Indicator (100%), HV-EV System Indicator (200%), HV-EV System Indicator (300%), HV-EV System Indicator (400%), HV-EV System Indicator (-50%), HV-EV System Indicator (MAX), HV-EV System Indicator (MIN), Hybrid Battery Charge, Hybrid Battery Heater Relay, Hybrid System Warning, Hydrogen Leak Warning, ICS OFF Warning, IG OFF P-W Control Permission Output, Illuminated Entry System, Illumination Lights Test, Immobilizer Indicator, Immobilizer, iMT Indicator (Green), iMT Indicator (Yellow), Injection Quantity Control, Injection Stop Mode (Injector 1), Injection Stop Mode (Injector 2), Injection Stop Mode (Injector 3), Injection Stop Mode (Injector 4), Injection Stop Mode (Injector 5), Injection Stop Mode (Injector 6), Inside Luggage Tuner Power Supply, Inspection Mode, INTUITIVE P-A LCD Indicator, INTUITIVE P-A LCD OFF Indicator, In-Vehicle Air Temperature Setting, Ion Generator, KDSS Warning, Key Cylinder Illumination, Keyless Buzzer, L range display, LANE OFF, LDA Indicator (White), LDA Indicator, LDA Steering Control Indicator, LDA Warning, LED Headlamp Warning, LED LO beam, LED Switch Lighting Test, Left LDA Indicator, Left LDA Warning, Left Steering Responsive Headlight, Left Turn Signal Indicator, Light Control Glass Relay, Light Control Switch (DOWN), Light Control Switch (Single), Light Control Switch (UP), Limited Power Indicator,

Line Solenoid, Lithium Battery Check Indicator, Lithium Battery Hot Indicator, Load Specification Information, lock actual. LOCK output, Lock-Up Duty Solenoid, Low Beam, Low Fuel Warning Indication, Low Pressure Magnetic Valve, LP - EGR Valve Control, LPG Indicator, Luggage Mode Indicator (Yellow), Luggage Mode Indicator, Maintenance Warning, Master Warning, Meter 1/2 scale command, Meter 1/4 scale command, Meter 3/4 scale command, Meter Day Mode Switch, Meter Display (0), Meter Display (1), Meter Display (2), Meter Display (3), Meter Display (4), Meter Display (5), Meter Display (6), Meter Display (7), Meter Display (8), Meter Display (9), Meter Display (All), Meter E scale command, Meter F-scale command, Mirror Fold Signal, Mirror Return Signal, MMT E Mode Warning, Mode Door Actuator Opening Angle Target, Motor Relay, Multi Display All (White), Multi Display Default Screen, Multi Display Select Switch, Multi Switch (Back), Multi Switch (Down), Multi Switch (Enter), Multi Switch (Left), Multi Switch (Right), Multi Switch (Top), Multi Switch (Up), N range display, Navi CVT Indicator, Night View Indicator, No-key warning, O-D OFF Indicator, Odometer numerical device display 0, Odometer numerical device display 1, Odometer numerical device display 2, Odometer numerical device display 3, Odometer numerical device display 4, Odometer numerical device display 6, Odometer numerical device display 7, Odometer numerical device display 8, Odometer numerical device display 9, ODO-TRIP Change Switch, OFF Road Guidance Indicator, OFF Road Guidance Warning, Oil Level Warning, Oil Pressure Meter Operation (1-2), Oil Pressure Meter Operation (1-4), Oil Pressure Meter Operation (3-4), Oil Pressure Meter Operation (HIGH), Oil Pressure Meter Operation (LOW), Oil Pressure Warning, Oil Pressure, Outer Mirror Reverse Light, Outside Mirror Footwell Lights, Over Speed Indicator, Overhead Tuner Power Supply, P Range Display, P Range Indicator, Panel Light, Park Warning, Part Number, Passenger Door, Passenger Seat Sensor Power Supply, Passenger Side Seat Belt Warning, P-CR OFF, PCS OFF Warning, PCS Warning, Pedestrian Protection Warning, Position light, Power Meter (100%), Power Meter (-100%), Power Windows Tests, PPS Warning, Primary Down Solenoid, Primary Up Solenoid, PTC Heater, Quantity of Sunload Setting, R range display, Radar Cruise Indicator (Yellow), Radar Cruise Indicator, Radiator Fan Relay, Range Display Test, RCD OFF Indicator, RCTA Indicator, RCTA OFF Indicator, Ready Indicator, Rear Air Mix Damper Control Servo Motor, Rear Blower Level, Rear Buzzer, Rear Defogger Relay, Rear Defogger, Rear DIFF LOCK Indicator, Rear Differential Inspection Mode, Rear Driver Side Sensor Power Supply, Rear Fog Lamp Indicator, Rear Fog Light, Rear Inner Wheel Control Indicator, Rear Inner Wheel Control Warning, Rear Inverter Cooling Fan, Rear Left Door, Rear Left Seat Heater, Rear Light Indicator, Rear Passenger Side Sensor Power Supply, Rear Right Air Mix Damper Control Servo Motor, Rear Right Door, Rear Right Seat Heater, Rear Seat Belt Warning, Rear Washer Relay, Rear Welcome Light, Rear Wiper Operation, Red Indicator, Reductant Warning, Refrigerant Gas Volume Check, Relay for Interior Light Auto Cut Function, Reverse Signal, Ride Mode Indicator, Right Front Seat Heater, Right LDA Indicator, Right LDA Warning, Right Steering Responsive Headlight, Right Turn Signal Indicator, ROM ID, Secondary Solenoid Current, Security Horn, Security Indicator, Self Power Siren, SET Indicator, Shift Indicator Lamp, Shift Lock Solenoid, Shift-By-Wire Warning, Signal Check, SIL Indicator (Down), SIL Indicator (Up), Slide Roof, Slip Warning, Smart System Indicator, Smart System Warning, SOC Gauge (1-2), SOC Gauge (1-4), SOC Gauge (3-4), SOC Gauge (MAX), SOC Gauge (MIN), SOC Warning, Software Information, Software version, Solenoid Relay, Sounder Output, Speaker Output Check(Harman/Kardon Audio Speakers), Speaker Output Check, Speaker Output Volume Adjustment, Speed Signal Input (0), Speed Signal Input (120), Speed Signal Input (160), Speed Signal Input (200), Speed Signal Input (240), Speed Signal Input (280), Speed Signal Input (320), Speed Signal Input (360), Speed Signal Input (40), Speed Signal Input (400), Speed Signal Input (80), Speedometer Operation (0km-H,0mph), Speedometer Operation (120km-H,120mph), Speedometer Operation (160km-H,160mph), Speedometer Operation (200km-H,200mph), Speedometer Operation (240km-H,240mph), Speedometer Operation (280km-H,280mph), Speedometer Operation (320km-H,320mph), Speedometer Operation (360km-H,360mph),

Speedometer Operation (400km-H,400mph), Speedometer Operation (40km-H,40mph), Speedometer Operation (80km-H,80mph), Speedometer test, Sport Indicator (CVT Sport), SRH OFF, SRVD OFF, SRVD, Start SW Light Power Supply, Steering Heater Indicator (Yellow), Steering Heater, Stop And Start OFF Indicator, Stop And Start ON Indicator, Stop Lamp Relay, Sub Fuel Gauge Operation (1-2), Sub Fuel Gauge Operation (1-4), Sub Fuel Gauge Operation (3-4), Sub Fuel Gauge Operation (Empty), Sub Fuel Gauge Operation (Full), Sub Fuel Gauge Operation (Sender E), Sub Fuel Gauge Operation (Sender F), Tachometer Operation (0rpm), Tachometer Operation (10000rpm), Tachometer Operation (2000rpm), Tachometer Operation (3000rpm), Tachometer Operation (4000rpm), Tachometer Operation (5000rpm), Tachometer Operation (6000rpm), Tachometer Operation (7000rpm), Tachometer Operation (8000rpm), Tachometer Operation (9000rpm), Tachometer test, Tailgate Open, Taillamp Indicator, Taillight-Clearance Light, Temp Gauge: C-Lock, Temp Gauge: C-Point, Temp Gauge: Dial 1 Instructions, Temp Gauge: Dial 2 Instructions, Temp Gauge: H-Lock, Temp Gauge: H-Point, Temp Gauge: Intermediate Stability Indication, Temp Gauge: Z-Point, Temporary Vehicle Start Up, Timer Switch (00), Timer Switch (H), Timer Switch (M), Timer Switch (Single), Timing Belt Warning, Tire Pressure Warning System Indicator, Tow Haul Indicator, TPMS Warning Light, Trailer Reverse Assistant Light, Trip meter numerical device display 0, Trip meter numerical device display 1, Trip meter numerical device display 2, Trip meter numerical device display 3, Trip meter numerical device display 4, Trip meter numerical device display 5, Trip meter numerical device display 6, Trip meter numerical device display 7, Trip meter numerical device display 8, Trip meter numerical device display 9, Trip Reset Switch, Trunk open, Trunk Unlock Actuator, Turn Left Signal, Turn Right Signal, Up range display, VDC Function Check Mode, VDC OFF indicator, VDC operation/failure indicator, Vehicle Approach Warning OFF Indicator, Vehicle Horn, Vehicle Proximity Notification System Warning, Vehicle Stop Warning, VGRS Warning, Volt Meter Operation (0V), Volt Meter Operation (12V), Volt Meter Operation (15V), Volt Meter Operation (18V), Volt Meter Operation (3V), Volt Meter Operation (6V), Volt Meter Operation (9V), VSC OFF Indicator, VSC TRC Indicator, Warning Lamp, Washer Fluid Low Indicator, Washer Nozzle Heater, Washer Warning, Water Level Warning, Water Pump, Water temperature (COOL) indicator, Water temperature (HOT) warning, Water Temperature Meter Operation (110C,230F), Water Temperature Meter Operation (120C,248F), Water Temperature Meter Operation (127C,260F), Water Temperature Meter Operation (50C,122F), Water Temperature Meter Operation (60C,140F), Water Temperature Meter Operation (70C,158F), Water Temperature Meter Operation (80C,176F), Water Temperature Meter Operation (Middle), Wiper Power Relay, Wireless Buzzer

## New Toyota/Lexus Coverage

### 227 new Adjustment type special tests:

2 Steps Fade Out Control Function, 3rd Center Seatbelt Warning Buzzer Function, 3rd Left Seatbelt Warning Buzzer Function, 3rd Right Seatbelt Warning Buzzer Function, 4th Center Seatbelt Warning Buzzer Function, 4th Left Seatbelt Warning Buzzer Function, 4th Right Seatbelt Warning Buzzer Function, A/C Auto Switch Mode, A/C Operation Limit History Counter Clear, aCol Function, Advanced Park Parallel Parking Control Area, Advanced Park Perpendicular Parking Control Area, AFS Function, AHS Function, AHS Operation Vehicle Speed Setting (Pattern1), AHS Operation Vehicle Speed Setting (Pattern2), AHS Operation Vehicle Speed Setting (Pattern3), Air Bleeding, All Readiness, Ambient Temperature Adjustment, Audio Information Display Function, Auto Door Lock Pattern Setting (Speed), Auto Entry Cancel 2 Setting, Auto Entry Cancel Setting, Automatic Door Lock Function, Automatic Door Lock Setting, Automatic Door Unlock Function when D-Door Open, Automatic Door Unlock Setting, Automatic Light Off Timing Setting, Automatic Mirror Fold Setting, Backup Battery Replacement Reset, Battery Status Info Update, Body Control with Torque Demand, Brake Line Air Bleeding, Brightness Level Adjust (Canceling), Brightness

Level Adjust (Lowering), Clear Abnormal Operation History, Clearance Warning Buzzer Volume, Customize Setting Initialization, Daytime Running Light Function, DCM Operation History, Door Auto Lock Timer Setting, Door Handle Lock Button, Door Key Related Close, Door Key Related Open, Door Key Related Operation, Door Lock Answerback Sound Setting, Door Lock Indicator Function, Door Lock Indicator Pattern Setting (IG OFF), Door Lock Indicator Pattern Setting (IG ON), Door Open SW Operation Adjust, Door Unlock Sensor Touch Time Adjust, Driver Seat Distance Adjust when Get Off, Driver Seat Lift Up Distance Adjust when Get Off, Driver Seatbelt Warning Buzzer Function, DRL Function, ECO Drive Indicator Zone Display Function (Meter), ECO Drive Indicator Zone Display Function, ECO Mode Control, Efficient Ventilation Mode, Electronic Swivel Function, Entry Unlock Twice Function, EPB Initialize, EV Mode Cruising Range Reset, Evaporator Control, Extended Headlight Lighting, Exterior Lights Lighting Timer Setting, Exterior Lights ON Function, Exterior Lights ON when Approached Function, Exterior Lights ON when Door Opened Function, Exterior Lights ON when Door Unlocked Function, Fan speed increment control, Flasher Sound Volume Adjust, Forced Actuator Refresh, Forget to Turn IG OFF Alarm Function, Front Center Seatbelt Warning Buzzer Function, Front SW Auto Operation, Glass Hatch Open Function, Hazard Answer Back Function, Headlight ON in Conjunction with Wiper Function, Height Sensor Initialization, High Voltage Fuse Accumulated Load History Reset, Ignition Available Area Setting (Back Door Type), Ignition Available Area Setting (Trunk Lid Type), Initialization Of Both Rear Window Lifters, Initialization, Interior Footwell Lights Function, Interior Illumination Light 2 Function, Interior Illumination Light 3 Function, Interior Lights Lighting Timer Setting, Interior Lights ON Function, Intrusion Sensor 1 Sensitivity Level Adjust, Intrusion Sensor 2 Sensitivity Level Adjust, Intrusion Sensor Reduction in Sensitivity Setting, Intrusion Sensor Sensitivity Level (Window Open), Intrusion Sensor Sound Detection Function, Ion Generate Control, IPA Obstacle Avoidance Distance, IPA Parallel Parking Control Area, IPA Perpendicular Parking Control Area, Key Left in Vehicle Alarm Function, Key Low Battery Warning Function, Kick Sensor Operation Function with ACC ON, Lane Change Flashing Times Adjust, Light Auto OFF Delay Setting, Light Blink Clearance Lights at Unlock Function, Light Control Glass Brightness Memory Function, Light Control Glass Voice Control Function, Light up Clearance Lights at Door Unlock Function, Lock Indicator Lighting Time Adjust, Lost Communication Time Initialization, Master Caution Display Function, Memory Call Function, Multi Weather Light Function, Noise and Vibration Reduction, ODO Display Time After IG OFF Adjust, Open Door Warning Function, Operation History Clear, Outside Air Mode Auto Switch Function, P/W Operation Buzzer W/ Transmit Function, Panic Function, Park Wait Time Adjust, Passenger Seatbelt Warning Buzzer Function, PCS Cooperate Function, PKSA (O) Auto Mute Function, PKSA (O) Forward Detection Image Display, PKSA (O) Image Display when Away from the Obstacle, PKSA (O) Judgment of Obstacle on Course, PKSA (O) Switch State Stored, PKSB (O) Function, PKSB (O) Target Stopping Distance, PKSB (P) Function, PKSB (P) Target Stopping Distance, PKSB (P) Width Adjustment (Y Axis), PKSB (V) Function, PKSB (V) Operation Timing Setting, PKSB (V) Sensitivity, PKSB Switch State Stored, Power Saving Wait Time(Out Of Entry Range), Power Steering ECU Initial Setting, Power Window Voice Control Function, Projection Adjustment (Distortion), Projection Adjustment (Keystone), Projection Adjustment (Tilt), Proposal Service Frequency Adjust, Proposal Service Volume Adjust, Proposal Services Function, R Wiper Stop Function at Back Door/Trunk Lid Open, Rain Mode, Rain Sensor Initialization, Rear Center Seatbelt Warning Buzzer Function, Rear Left Seatbelt Warning Buzzer Function, Rear Right Seatbelt Warning Buzzer Function, Rear Seatbelt Warning Buzzer Function, Rear Sunshade linked with Shift Lever R Funct, Rear SW Auto Operation, Rear Wiper Washer Function, Rear Wiper with Reverse Setting, Refrigerant Pressure History Clear, Refrigerant Shortage Check, Remote Air Conditioner Start Setting, Remote Air Conditioner Stop Setting, Remote Door Lock Setting, Reset Memory, Response Time Adjust, Reverse Buzzer Setting, Reverse Coupled Actuation Mirror Angle Setting, Seat Airflow Mode Setting, Seat Position Voice Control Function, Seat position/Tilt Telesco memory recall setting, Security Control with

Mechanism Key Function, Sensitivity Adjust, Servomotor Initialization, Set Temperature Shift, S-FLOW Control Auto Function, Shift Lever R Signal Delay Time Adjust, Shift Linked Automatic Door Lock Function, Shift Linked Automatic Door Unlock Function, Slide Roof Open Warning Function, Slide Roof Voice Control Function, Speed Limit Display Function, Speed Linked Automatic Door Lock Function, Speed Linked Automatic Door Unlock Function, Start Indicator Function, Start Off Mode, Start Switch Light Function, Tail Remind Buzzer Function, Telematics Microphone Volume Adjust, Telematics Speaker Volume Adjust, Tire Circumference Setting, Torque Sensor Adjustment, Touch Activation Over Threshold, Town Mode, Traffic Sign Recognition Animation Function, Trunk Lid Linked with Door Lock Function, Trunk Lid Open Mode Function, Trunk Lid Operation by Electrical Key Function, Trunk Lid Operation by Entry Function, Tunnel Beam Function, Turn by Turn Animation Function, Ultrasonic Sensor (Front Center) Detection Range, Ultrasonic Sensor (Front Corner) Detection Range, Ultrasonic Sensor (Rear Center) Detection Range, Ultrasonic Sensor (Rear Corner) Detection Range, Ultrasonic Sensor (Side) Alarm Detection Range, Ultrasonic Sensor (Side) Alarm Function, Ultrasonic Sensor Actuation (Shift N), Unlock Key Twice Function, Voice Guidance Function, Walk Away Lock after Getting Out Func (Closing), Walk Away Lock after Getting Out Function, Warning by Horn Function, Window Open Warning Function, Wiper Specification Switch, Wiper Voice Control Function, Wireless Backdoor Open Operation Adjust, Wireless Buzzer Response Function, Wireless Buzzer Volume Setting, Wireless Control Function, Wireless Glass Hatch Open Operation Adjust, Wireless Key Related Close, Wireless Key Related Open, Wireless Key Related Operation, Wireless Lock Function with Doors Open, Wireless Trunk Lid Open Operation Adjust, Wireless Unlock Twice Function, Zero Point Calibration

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

2nd START Indicator, 4LO Indicator, 4WD AUTO Indicator, 4WD Indicator (Green), 4WD Indicator (Yellow), 4WD Lock Indicator, 4WD Warning, ABS Warning, A-C Driving Demand, Activate SL1 Solenoid, Activate SL2 Solenoid, Activate SL3 Solenoid, Activate SL4 Solenoid, Activate SLT Solenoid, Activate the (Inverter) Water Pump, Activate the Charger Cooling Fan, Activate The Solenoid (SC1), Activate The Solenoid (SC2), Active TRC Indicator, ACTIVE TRC Warning, Advanced Parking Guidance Indicator, AFS Indicator (Malfunction) Display, AFS OFF Indicator, AHS LH High Beam, AHS RH High Beam, Air Inlet Damper Control Servo Motor, Air Suspension Indicator (HI), Air Suspension Indicator (LO), Air Suspension Indicator (N), Airbag Warning, All Indicator, ASL Indicator, ASL Warning, AST Indicator, A-T Indicator Operation (2), A-T Indicator Operation (3), A-T Indicator Operation (4), A-T Indicator Operation (B), A-T Indicator Operation (D), A-T Indicator Operation (L), A-T Indicator Operation (N), A-T Indicator Operation (P), A-T Indicator Operation (R), A-T Indicator Operation (S), A-T Indicator Operation (Sport M), A-T Indicator Operation (Sport S), A-T Oil Temperature Warning, A-T P Warning, Auto Air Conditioner Indicator, Auto Leveling Headlamp Indicator, Auto LSD Indicator, Auto Power OFF Cancel, Automatic High Beam Indicator (Green), Automatic High Beam Indicator (Yellow), Automatic High Beam Switch Light, Auxiliary Battery Warning, AVS Comfort Indicator, AVS Sports Indicator, Back Door Sensor Power Supply, Beep, Blower Level, Brake Hold Indicator, Brake Override Warning, Brake Warning, BSM Indicator, BSM OFF Indicator, BSM Warning, Buzzer Operation (1.6khz, Vol S, W-O Damping), Buzzer Operation (2.0khz, Vol S, W-O Damping), Buzzer Operation (2.4khz, Vol L, W-O Damping), Buzzer Operation (800hz, Vol L, W- Damping), Buzzer Operation (800hz, Vol L, W-O Damping), Buzzer Operation (800hz, Vol S, W- Damping), Buzzer Operation (800hz, Vol S, W-O Damping), Cancel Communication Function Pausing, Cargo Light, Center DIFF LOCK Indicator, Charge Indicator, Charge Warning (Red), Charge Warning, Check Engine Warning, Check Mode, Clearance Light (+ Front Side Marker Light), CNG Mode Indicator, Collision Door Lock Release, Color Test Screen (Adjustment), Color Test Screen (Black), Color Test Screen (Blue), Color Test Screen (Color Bars), Color Test Screen (Green), Color Test Screen (Red), Color Test Screen (White), Compression Test, Connect The TC And TE1, Control the Motor/Generator Cooling Oil

Pump, Control the Transmission Oil Pump, Coolant Cool Warning Lamp, Coolant Hot Warning Lamp, Cooling Electric Expansion Valve, Cornering Light-Front Side Illuminate Light (Dim), Cornering Light-Front Side Illuminate Light, CRAWL Indicator, CRAWL Warning, Cruise Indicator (Yellow), Cruise Indicator, Daytime Running Light, DCM Firmware Update, D-Door Unlock, Diesel Particulate Filter Warning, Dimmer Signal, Door Lock, Door Open Warning, Door Unlock, Downhill Assist Control Indicator, Downhill Assist Control Warning, Drift From The Lane Indicator, Drift From The Lane Warning, Driver Seat Sensor Power Supply, Driver Side Seat Belt Warning, ECB Main Relay, ECB Solenoid (SLA), ECB Solenoid (SLR), ECB Utility, ECB Warning, ECO Mode Indicator, ECONO Indicator, ECT PWR Indicator, ECT SNOW Indicator, Electrical Fan, Emergency Call Cancellation, Emergency Exit Warning, EPB Auto OFF Indicator, EPB Control Switch, EPS Warning, EV Drive Indicator, EV Mode Indicator, EXO, Extended Illumination 1, Extended Illumination 2, Fr Control Rear Air Outlet Damper Servo Motor, Front Air Mix Damper Control Servo Motor, Front Air Outlet Damper Control Servo Motor, Front Buzzer, Front Deicer Relay, Front Evaporator Magnetic Valve, Front Fog Lamp Indicator, Front Fog Light, Front Footwell Lights, Front Left Air Mix Damper Control Servo Motor, Front Left Air Outlet Damper Control Servo Motor, Front Left Seat Blower, Front Left Seat Heater, Front Right Air Mix Damper Control Servo Motor, Front Right Air Outlet Damper Control Servo Motor, Front Sliding Sunshade, Front Washer Relay, Front Wiper Hi Operation, Front Wiper Lo Operation, Fuel Cap Reminder Warning, Fuel Filter Warning, Fuel Gauge Indicator, Fuel Gauge Operation (1-2), Fuel Gauge Operation (1-4), Fuel Gauge Operation (3-4), Fuel Gauge Operation (Empty), Fuel Gauge Operation (Full), Fuel Gauge Operation (Sender E), Fuel Gauge Operation (Sender F), Fuel Gauge Operation (Warning), Fuel Gauge Operation For CNG (1-2), Fuel Gauge Operation For CNG (1-4), Fuel Gauge Operation For CNG (3-4), Fuel Gauge Operation For CNG (Empty), Fuel Gauge Operation For CNG (Full), Fuel Gauge Operation For CNG (Sender E), Fuel Gauge Operation For CNG (Sender F), Fuel Gauge Operation For CNG (Warning), Fuel Lid Lock Relay, Fuel Warning (CNG), Glass Hatch Open, GLOW Warning, Go To Service Warning, Green Indicator, Head Up Display Indicator, Headlamp Indicator, Headlight Leveling Indicator Display, Headlight Leveling Initialize Incomplete Display, Headlight Relay-Light Power Supply Relay, Headlight System Malfunction Display, Headlight Washer System, Heater Valve, Heating Electric Expansion Valve, Height High Indicator, Height High Warning, High Beam Headlight, High Beam Indicator, High Pressure Magnetic Valve, Hold Indicator, Horn Relay, HV System Indicator (0%), HV System Indicator (100%), HV System Indicator (200%), HV System Indicator (300%), HV System Indicator (400%), HV System Indicator (-50%), HV System Indicator (MAX), HV System Indicator (MIN), HV Unit Hot Warning, HV-EV System Indicator (0%), HV-EV System Indicator (100%), HV-EV System Indicator (200%), HV-EV System Indicator (300%), HV-EV System Indicator (400%), HV-EV System Indicator (-50%), HV-EV System Indicator (MAX), HV-EV System Indicator (MIN), Hybrid Battery Charge, Hybrid Battery Heater Relay, Hybrid System Warning, Hydrogen Leak Warning, ICS OFF Warning, IG OFF P-W Control Permission Output, Illuminated Entry System, Immobilizer Indicator, iMT Indicator (Green), iMT Indicator (Yellow), Inside Luggage Tuner Power Supply, Inspection Mode, INTUITIVE P-A LCD Indicator, INTUITIVE P-A LCD OFF Indicator, Ion Generator, KDSS Warning, Key Cylinder Illumination, LDA Indicator (White), LDA Indicator, LDA Steering Control Indicator, LDA Warning, LED Headlamp Warning, Left LDA Indicator, Left LDA Warning, Left Turn Signal Indicator, Light Control Glass Relay, Light Control Switch (DOWN), Light Control Switch (Single), Light Control Switch (UP), Limited Power Indicator, Lithium Battery Check Indicator, Lithium Battery Hot Indicator, Load Specification Information, Lock All Doors, Low Beam, Low Pressure Magnetic Valve, LPG Indicator, Luggage Mode Indicator (Yellow), Luggage Mode Indicator, Maintenance Warning, Master Warning, Meter Day Mode Switch, Meter Display (0), Meter Display (1), Meter Display (2), Meter Display (3), Meter Display (4), Meter Display (5), Meter Display (6), Meter Display (7), Meter Display (8), Meter Display (9), Meter Display (All), Mirror Fold Signal, Mirror Return Signal, MMT E Mode Warning, Motor Relay, Multi Display All (White), Multi Display Default

Screen, Multi Display Select Switch, Multi Switch (Back), Multi Switch (Down), Multi Switch (Enter), Multi Switch (Left), Multi Switch (Right), Multi Switch (Top), Multi Switch (Up), Navi CVT Indicator, Night View Indicator, O-D OFF Indicator, ODO-TRIP Change Switch, OFF Road Guidance Indicator, OFF Road Guidance Warning, Oil Level Warning, Oil Pressure Meter Operation (1-2), Oil Pressure Meter Operation (1-4), Oil Pressure Meter Operation (3-4), Oil Pressure Meter Operation (HIGH), Oil Pressure Meter Operation (LOW), Oil Pressure Warning, Outer Mirror Reverse Light, Outside Mirror Footwell Lights, Over Speed Indicator, Overhead Tuner Power Supply, P Range Indicator, Panel Light, Park Warning, Passenger Seat Sensor Power Supply, Passenger Side Seat Belt Warning, PCS OFF Warning, PCS Warning, Pedestrian Protection Warning, PPS Warning, PTC Heater, Radar Cruise Indicator (Yellow), Radar Cruise Indicator, RCD OFF Indicator, RCTA Indicator, RCTA OFF Indicator, Ready Indicator, Rear Air Mix Damper Control Servo Motor, Rear Blower Level, Rear Buzzer, Rear center sun blind, Rear Defogger Relay, Rear DIFF LOCK Indicator, Rear Driver Side Power Window Close, Rear Driver Side Power Window Open, Rear Driver Side Sensor Power Supply, Rear Fog Lamp Indicator, Rear Fog Light, Rear Inner Wheel Control Indicator, Rear Inner Wheel Control Warning, Rear Inverter Cooling Fan, Rear Left Seat Heater, Rear left sun blind, Rear Light Indicator, Rear Passenger Side Power Window Close, Rear Passenger Side Power Window Open, Rear Passenger Side Sensor Power Supply, Rear Right Air Mix Damper Control Servo Motor, Rear Right Seat Heater, Rear right sun blind, Rear Seat Belt Warning, Rear Washer Relay, Rear Welcome Light, Rear window lifter: Close, Rear window lifter: Open, Rear Wiper Operation, Red Indicator, Reductant Warning, Refrigerant Gas Volume Check, Relay for Interior Light Auto Cut Function, Reverse Signal, Ride Mode Indicator, Right Front Seat Heater, Right LDA Indicator, Right LDA Warning, Right Turn Signal Indicator, Security Horn, Security Indicator, Self Power Siren, SET Indicator, Shift-By-Wire Warning, Signal Check, SIL Indicator (Down), SIL Indicator (Up), Slide Roof, Slip Warning, Smart System Indicator, Smart System Warning, SOC Gauge (1-2), SOC Gauge (1-4), SOC Gauge (3-4), SOC Gauge (MAX), SOC Gauge (MIN), SOC Warning, Solenoid Relay, Speed Signal Input (0), Speed Signal Input (120), Speed Signal Input (160), Speed Signal Input (200), Speed Signal Input (240), Speed Signal Input (280), Speed Signal Input (320), Speed Signal Input (360), Speed Signal Input (40), Speed Signal Input (400), Speed Signal Input (80), Speedometer Operation (0km-H,0mph), Speedometer Operation (120km-H,120mph), Speedometer Operation (160km-H,160mph), Speedometer Operation (200km-H,200mph), Speedometer Operation (240km-H,240mph), Speedometer Operation (280km-H,280mph), Speedometer Operation (320km-H,320mph), Speedometer Operation (360km-H,360mph), Speedometer Operation (400km-H,400mph), Speedometer Operation (40km-H,40mph), Speedometer Operation (80km-H,80mph), Sport Indicator (CVT Sport), Start SW Light Power Supply, Steering Heater Indicator (Yellow), Steering Heater, Stop And Start OFF Indicator, Stop And Start ON Indicator, Stop Lamp Relay, Sub Fuel Gauge Operation (1-2), Sub Fuel Gauge Operation (1-4), Sub Fuel Gauge Operation (3-4), Sub Fuel Gauge Operation (Empty), Sub Fuel Gauge Operation (Full), Sub Fuel Gauge Operation (Sender E), Sub Fuel Gauge Operation (Sender F), Tachometer Operation (0rpm), Tachometer Operation (1000rpm), Tachometer Operation (2000rpm), Tachometer Operation (3000rpm), Tachometer Operation (4000rpm), Tachometer Operation (5000rpm), Tachometer Operation (6000rpm), Tachometer Operation (7000rpm), Tachometer Operation (8000rpm), Tachometer Operation (9000rpm), Tailgate Open, Taillamp Indicator, Taillight-Clearance Light, Temporary Vehicle Start Up, Timer Switch (00), Timer Switch (H), Timer Switch (M), Timer Switch (Single), Timing Belt Warning, Tire Pressure Warning System Indicator, Tow Haul Indicator, Trailer Reverse Assistant Light, Trip Reset Switch, Unlock All Doors, Unlock Rear Lid, Vehicle Approach Warning OFF Indicator, Vehicle Horn, Vehicle Proximity Notification System Warning, Vehicle Stop Warning, VGRS Warning, Volt Meter Operation (0V), Volt Meter Operation (12V), Volt Meter Operation (15V), Volt Meter Operation (18V), Volt Meter Operation (3V), Volt Meter Operation (6V), Volt Meter Operation (9V), VSC OFF Indicator, VSC TRC Indicator, Washer Nozzle Heater, Washer Warning, Water Level Warning,

Water Pump, Water Temperature Meter Operation (110C,230F), Water Temperature Meter Operation (120C,248F), Water Temperature Meter Operation (127C,260F), Water Temperature Meter Operation (50C,122F), Water Temperature Meter Operation (60C,140F), Water Temperature Meter Operation (70C,158F), Water Temperature Meter Operation (80C,176F), Water Temperature Meter Operation (Middle), Windscreen Washer Pump, Wiper end position test, Wiper Power Relay, Wiper Service Position, Wireless Buzzer

## New Coverage Details – USA European

### New Alfa Romeo Coverage

- Added coverage for 103 new system applications

#### 105 new Adjustment type special tests:

ABS Unit Bleed, Active Grill Shutter Replaced, Actuator Calibration, Back Lighting, Brake Fluid Replacement/Brake Fluid Reservoir Substitution, Calibrate Tandem Master Cylinder Sensor, Caliper EPB substitution, CAM Crank Relearn Routine, Clear Engine Auto Restart Crank Counter, Clear Learning Value, Clear Misfire TLC, Clear Stored Accumulated Fuel Mass, Clear TPM Sensor Rolls Test Results, Clear TPM Sensor Warnings, Clear Variable Line Pressure Counters, Close Door Calibration, Clutch Pedal Learn, Coolant Three Way Valve Replaced, Downstream Lambda Sensor Heater Self-learning Reset, DTCM Replacement, EGR System Test, Electric Park Brake Management, Enable Brake Pedal, Enable/Disable The Roll Bench Mode, Engine Idle Shutdown Feature Enable/Disable, EPB Assembly Check, Exhaust Phaser 1 Cleaning, Exhaust Phaser 2 Cleaning, Exit Logistic Mode, Exit Shipping Mode, Fire Protection System Activate, Front Axle Nominal Tire Pressure, Front Brake Disc Substitution, Front Caliper Substitution, GSE Injector Adaptation, Heated Seat NTC Validation, HVAC Actuator Calibration Test, HVAC FGA Self Learning Motors Test, Initialize EPS, Intake Lambda sensor adaptive parameters reset, Intake Phaser 1 Cleaning, Intake Phaser 2 Cleaning, Learn ETC, Longitudinal And Lateral Sensor Calibration, Modify Volumetric Sensors Sensitivity, New Engine Installed, Oil Change, Oil Service Reset, Open Door Calibration, Original VIN Lock, Overboost counter reset, Phonic Wheel Ttooth Learning Reset, Power Take - Off Unit Replacement, Pressure Sensor Calibration, Production State, Proxi Configuration Alignment, Proxi Configuration, Purge fuel circuit reset, Quick Learn, Quicklearn 62TE, Quicklearn Non RFE, Quicklearn RFE, RDU Replacement, Rear Axle Nominal Tire Pressure, Rear Brake Disc Substitution(Continental), Reset Adaptive After Oil Change, Reset Adaptive Data, Reset Adaptive Memory, Reset Adaptive Values, Reset Adaptives After Block Change, Reset Air-Fuel Adaptives, Reset Angle Offset, Reset Camshaft Adaptive, Reset Camshaft Adaptives, Reset ECU, Reset Enhanced Automatic Oil Change Indicator, Reset Fuel Rail Bleed Procedure, Reset Memory, Reset of VCM Bad Programming Snapshot, Reset oil life monitoring parameter, Reset Parameters to Default, Reset Service Information, Reset VCM Adaptives, Reset VVA Freeze Incorrect Request, Seat Belts Alarm Enable, Seat Belts Alarm Exclusion, Settling Group Caliper and Brake Pads, Steering Angle Calibration, TCC Break In, Throttle Body Self-Learn Activation, Tire Pressure Sensor Registration, TPM Pressure Update to Placard Value, TPMS Calibration, Trailer Hook Presence Disabling, Trailer Hook Presence Enabling, Turbocharger adaptive parameters reset, Update Front and Rear Axle Nominal Tire Pressure Values, 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, VIN Lock, VVL Cam Crank Relearn, Write Pinion Factor, Write VIN

#### 1128 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, 2-4 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 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, 4C Solenoid State, 4C Solenoid, 4th Gear Clutch Test (62TE), 4th Row Ceiling Light, A/C Compressor Clutch Relay Control State, A/C Relay, A/C Request, ABS (Anti-lock Brake System) safety indication, ABS Lamp, ABS Safety indication, ABS Safety lamp, A-C Compressor Clutch Relay Control State, A-C Request, Active Exhaust Valve 1, Active Exhaust Valve 2, Active Grill Shutter Test, Actuate All Heaters, Air Conditioner Relay Command, Air Defrost Motor Distribution (Left side), Air Defrost Motor Distribution (Right side), Air Distribution Motor Command (Mode), Air Mix Motor, AIR Mixing Motor Command (Left SIDE), AIR Mixing Motor Command (Right Side), Air Mode Motor, Air Rear Motor Distribution, Air Recirculation Motor Command, 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 Lights Front Command, All Lights Rear Command, All Stop Lights (EMEA 949), All Stop Lights (EMEA 952), All Stop Lights (NAFTA 949), All Stop Lights (NAFTA 952), ALL Stop Lights Command, All Stop Lights W-Combined Rear Lighting, All Stop Lights W-O Combined Rear Lighting, All Stop Lights, All Turn Lights Command, Alternator Field Control State, Alternator Field Duty Cycle, Alternator Field Duty-Cycle, Ambient dimming command, Ambient Dimming, Ambient Illumination; Interior, Ambient Light Control, Ambient Light, Ambient Lighting Command, AMP Output Short Test, AMP Output Tone 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 Night PWM, Assist Call Red Day PWM, Assist Call Red Night PWM, Audio Measure AC and DC, Audio Routing, Audio Test For Subwoofer Specific, 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 high beam activation, Auto Shutdown Relay Control State, Autocheck, Automated Driver Door Ajar Signal, Automated Driver Door Open, Automatic Functions Activation, Automatic High Beam, Auxiliary Coolant Pump, Background LED Illumination Level, 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 Command (Day Night Internal Light), Backlight LEDS Activation, Backlight Leds Control, Backlighting Dimming Command, Backlighting LEDs, Backlighting, Backup Light, Backup Lights, Balance Level Settings, Balance Settings, Bargraph, Bass Level Settings, Bass Settings, Battery-Alternator FAIL-Charge, Blow By Heater Relay Command, Blow-by Heater command, BLOWER Motor Brushed, BLOWER Motor Brushless, Blower Motor Command, Blower Motor Speed, Blower Motor, Blue Lights, Brake Sys Fail Ind, Elec PK Brk Indication And EPB Fail Indicati, Brake Sys Fail Indication, Electronic Parking Brake Indication, Brake System Fail Indicator, EPB Indicator, Brake System Failure [EMEA Only], Brake System Failure [US Only], 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, Button LEDs, Button symbol Back-Light PWM Duty, Buzzer Control, Buzzer, Cabin AIR Temperature Sensor Blower, Calibration Sensor, Camshaft Valve Control Position inlet command, Camshaft Valve Control Position outlet command, CEGR H-Bridge Valve Duty Cycle, Ceiling Light Front Command, Ceiling Light Front, Ceiling Light Rear Left or Central, Ceiling Light Rear Left, Ceiling Light Rear Right, Ceiling Light, Central high mounted Stop Light (CHMSL), Central high mounted Stop Light, Central Lock, Central Stop Lamp, Central Unlock, Channel 1, Channel 10, Channel 11, Channel 12, Channel 2, Channel 3, Channel 4, Channel 5, Channel 6, Channel 7, Channel 8, Channel 9, Charge Air Cooler Coolant Pump, Check PCM Odometer, CHSML and Stop/Turn

Lights, Clearance Identification Lights Relay, CNG Injector Relay, CNG Shut Off Relay, CNG/Gasoline Forced Fuel Type, Comfort Closing And Opening, Comfort ClosingOpening, Comfort ENABLE Command, Comfort Enable, Command By-Pass Valve, Command Key Unlock, Command Shift Lock, Control chime, Coolant High Temperature Auxiliary Electric Pump, Coolant Three Way Valve Test, Cooled EGR H-Bridge Valve System Test, Cooling Fan, Cruise control lamp command, 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, D+ Repetition Relay Command, Damper Front Left Command, Damper Front Right Command, Damper Rear Left Command, Damper Rear Right Command, Dasm Safety Indication Adaptive 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 (Halogen), Day Run Light (DRL) Parking Light Left (Xeno), Day Run Light (DRL) Parking Light Left LED, Day Run Light (DRL) Parking Light Left, Day Run Light (DRL) Parking Light Right (Halogen), Day Run Light (DRL) Parking Light Right (Xeno), Day Run Light (DRL) Parking Light Right LED, Day Run Light (DRL) Parking Light Right, Day Run Light (DRL) Parking Turn Light Left, Day Run Light (DRL) Parking Turn Light Right, Daylights and Position Left, Daylights and Position Right, Daylights Halogen Left, Daylights Halogen Right, Daylights Xenon Left, Daylights Xenon Right, DC Clutch Volume Index Check, Deactivation Parking Sensor LED, Deactivation Parking Sensor, Dead Lock Relay, DeadLock Relay, DeadLock Relay-Independent Driver Door Unlock, Defeat Engine ON, Diagnosis Module for Tank Leakage (DMTL) command, Diesel Particulate Filter Lamp Command, Dimming display, Dimming Graphics, Direct Injection Valve 1 Command, Direct Injection Valve 2 Command, Direct Injection Valve 3 Command, Direct Injection Valve 4 Command, Direct Injection Valve 5 Command, Direct Injection Valve 6 Command, Display Dimming, DNA Status LED 3, Door Ajar Signal To Front Ceiling Dome, Door Ajar, Door Handle Power Control, Door Handle Power, Door Handle Verification Test, Door Locks, Door Status LED Command, Door Status Led, Doors Status - Deterrence LED Driver Door, Doors Status - Deterrence LED Passenger Door, Doors status - deterrence LED, Double Start Override Relay, Downstream lambda probe heater command, DR Solenoid, Drive Style 2 LED Command, Drive style 2 LED, Drive Style 3 LED Command, Drive style 3 LED, Driver Door Ajar Signal To Manual Transmission Automated, Driver Door Ajar Signal To MTA (Manual Transmission Automated), Driver Door Ajar Signal To MTA, Driver Door Handle And Puddle Light LED Command, Driver Door Lock Status LED Command, Driver Door Unlock, Driver Doors Status - Deterrence LED, Driver Heated Seat, Driver Seat Backrest Command, Driver Seat Lift Command, Driver Seat Slide Command, Driver Seat Tilt Command, Drivers Window Control, DRL - Front Park Lights, DRL Left, DRL Parking Light Left Command, DRL Parking Light Right Command, DRL Right, DSU LED Command 1, DSU LED Command 2, DSU LED Command 3, DTI FUEL TRANSFER RLY, DTI LTR CLNT PMP, DTI SPRCHRGR BPV MOTOR, Dual Speed Fuel Pump Relay, Dual Speed Oil Pump, Dump valve command, Duty Cycle Purge Solenoid, EBD (Electronic Brake Distribution) safety indication, EBD Safety Lamp, E-Call Button Backlight LED, E-Call Button Green LED, E-Call Button Red LED, E-Call Green Day PWM, E-Call Green Night PWM, E-Call Red Day PWM, E-Call Red Night PWM, ECO Led Command, ECO LED, ECO-LPG-SS-E-Costing LED Command, EGR cooler bypass command, EGR high pressure cooler bypass command, EGR Valve Command, EGR Valve Solenoid Duty Cycle, Elec Stabil Ctrl (ESC) Sys Intrvntn - fail Ind HILL HOLDER Sys, Electric Park Brake, Electric Pump Drive Unit Command, Electric seat movement Relay, Electric Seat Movimentation Relay, Electric Thermostat Heater Solenoid Duty Cycle, Electric Thermostat Heater Solenoid, Electric Vacuum Pump, Electric Wastegate Valve, electromagnetic brake for engine stop command, Electronic Brake Distribution (EBD) safety indication, Electronic Parking Brake (EPB) Failure Indication [US Only], Electronic Parking Brake (EPB) failure indication, Electronic Power

Steering Fail, Electronic Stability Control (ESC) Fail, Electronic Stability Control (ESC) Indicator, Electronic Stability Control (ESC) OFF lamp indication, Electronic Stability Control (ESC) Off, Electronic Stability Control (ESC) system deactivation, Electropump motor command, Electrovalve Clutch Command (K2), Electrovalve Odd Gear Command (K1), EMCC VLP Solenoid, Enable sunroof unit, Engagement electrovalve PPV1 command (3rd/2nd/Reverse), Engagement electrovalve PPV1 command (6th-7th-R-5th), Engagement Electrovalve PPV2 Command (1st/4th/5th/6th), Engagement electrovalve PPV2 command (2nd-3rd-4th-1st), Engine After Run Coolant Pump, Engine Oil Pressure Lamp Command, Engine Running Injector Kill Test, Engine Speed Cluster, Engine Water Over Temperature Lamp Command, Engine Water Over Temperature, 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 switch lamp, EPB Warning Light, EPS Adaptive Data Control, 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 Safety Lamp, ESIM Forced Monitor Test, ETC Throttle Follower Test, Evaporative System Integrity Monitor (ESIM) solenoid command, Even Gear Clutch (K2) Control|Solenoid Valve Command, Even gear clutch K2 control solenoid valve command, Exhaust bypass valve command, External Control Variable Displacement (ECVD), External Mirror Fold, External Mirror Unfold, Externalcrown Light Rear Left LED, Externalcrown Light Rear Right LED, Externally Controlled Variable Displacement (ECVD) Command (DC), Fade Settings, Fader Level Settings, Fader Settings, Fan Climate Relay, FCW Indication Forward Collision Warning, First Start Power Limitation, FL Command Electrovalve, 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, Fog Front Light Left, Fog Front Light Right, Fog Front Lights Left Right, Fog Lamps, Fog Light Led, Fog Lights, Fog Rear Light Left -T2 (952), Fog Rear Light Or Second Backup Light, Fog Rear Light Right -T2 (952), Fog Rear Lights -T2 (949), Forward Collision Warning Fail, Forward Collision Warning OFF, FR Command Electrovalve, Frequency Step Selection Tuner AM-FM, Frequency Step Selection Tuner FM2, Frequency Step Selection, Front Ceiling Light - Inadvertent Lights, Front Ceiling Light + Inadvertent Lights, Front Ceiling Light Command Enable, Front Ceiling Light, Front Driver Window Lifter Command Down, Front Driver Window Lifter Command Up, Front DRL Light Xenon, Front Fog Light Left, Front Fog Light Right, Front Fog Lights Halogen, Front Fog Lights, 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 Door Actuator Position, 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 Command, Front Side Marker, Front Unlock, Front Wash, Front Wiper Test, Front Wiper, Fuel Filter Heater, Fuel Filter Heating, 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 Level low, Fuel Pump Relay Command, Fuel Pump Relay Control State, Fuel Pump Relay, Fuel Type, Functional Leds Control, Gas Injector Relay, Gear Lever Position Display Test, Gearbox oil pump command, General Stop For All Actuators, Glow lamp command, Glow Plug / Cold Inhibit Lamp, Glow plug indication - Cold Start inhibition, Half engine mode valve command, Hazard Command LED, Hazard LED Command, Hazard LED, Head Lamp Wash Relay Command, Head Lamp Wash, Head Lamp Washer Relay, Headlamp DRL Parking Light Left Signal, Headlamp DRL Parking Light Right Signal, Headlamp

Washer, Headlamps move in highest position, Headlamps move in left position, Headlamps move in lowest position, Headlamps move in middle (vertical) position, Headlamps move in right position, Headlamps move in the straight ahead position, Headlamps moving in the central vertical position, Headlamps moving in the highest position, Headlamps moving in the left limit position, Headlamps moving in the lowest position, Headlamps moving in the right limit position, Headlamps moving in the straight ahead position, Heated Rear Window Led Command, Heated Rear Window Relay Command, Heated Rear Window Relay, Heated Rear Window, Heated Seat Left Request, Heated Seat Right Request, Heated Steering Wheel Request, Heated Windows Command, 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 Command, High Beam Left, High Beam Light Left, High Beam Light Right, High Beam Lights, High BEAM Right Command, High Beam Right, High Beam Xenon with shutter, High Beams Lights Halogen, High Beams Lights, High Beams, High Side For Diesel Filter Heater Relay Command, 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, Ice Led, Idle RPM Test, Ignition Coil 1, Ignition Coil 2, Ignition Coil 3, Ignition Coil 4, Immobilizer Antenna, In Motion Menu Control, Indicator Lamp Airbag, Indicator LED Illumination Level, Indicator Leds Control, 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 5 coil command, Injector 6 coil command, 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 rear left activation, Inlet Valve Rear Left, Inlet valve rear right activation, Inlet Valve Rear Right, Inlet valve RL activation, Inlet valve RL, Inlet valve RR activation, Inlet valve RR, In-Plant Mode Activation, Instrument Panel Dimming, Instrument Panel Dimming, Intake lambda probe heater command, 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, Internal Led Night Lights, Internal Night Lights, Internalcrown Light Rear Left LED, Internalcrown Light Rear Right LED, Inverter Enable Command (949), Inverter Enable Command (952), Inverter Enable Command, Inverter Enable, Inverter Switch, Inverter, IP dimming command, Key LED PWM Duty, Key LED, Key lock command, Key Symbol Back-Light PWM Duty, Knob LED control, Lamp Control, Lane Dep Warn (LDW) on Nt Armed- on Armed- on Warn, Lane Departure Warning (LDW) Left Side, Lane Departure Warning (LDW) On Not Armed- On Armed- On Warning, Lane Departure Warning (LDW) Right Side, Lane Departure Warning (LDW) user disabled (OFF), Latch Cinch Test, Lateral Anti Tilt Sensor, Lateral Anti-tilt X Sensor, LC Clutch Volume Index Check, LC Solenoid, LCD Back-Light PWM Duty, LCD Symbols, LDW (Lane Departure Warning), LDW on not armed- on armed- on warning, LED Lock Inhibition Rear Widows Lifter, LED, Led1a Rear Left Heater (Switchled 1A CMD), Led1b Rear Left Heater (Switchled 1B CMD), Led1c Rear Left Heater (Switchled 1C CMD), Led4a Rear Right Heater (Switchled 4A CMD), Led4b Rear Right Heater (Switchled 4B CMD), Led4c Rear Right Heater (Switchled 4C CMD), LEDS Position Activation, Left (Front/Central/Rear) Turn Lights, Left (Front-Central-Rear) Turn Lights, Left (Front-Rear) Parking Lights, Left Air Distribution Motor, Left Air Mix Motor, Left Air Mix Servo Motor Target Position, Left DRL, Left Front Park Lamp, Left Parking Lights, Left Rear Stop Light (Fixed), Left Rear Tail Light + Side Marker, Left Rear Tail Light, Left Rear Turn Lights (EMEA), Left Rear Turn-Stop (NAFTA), Left Rear Turn-Stop Light (Fixed), Left SBL Command, Left Turn Indicator, Left Turn Light Front-Lateral, Left Turn Light indicator, Left Turn Light, Left Turn Lights, Left Turn Signal Indicator, Left turn signal lamp indication, Left Turn Signal Lamp, Licence PLATE LED Lights Command, License Plate Lamp, License Plate Light,

License Plate Lights Command, License Plate Lights, Liftgate Additional Parking Light Left And Right Command, Liftgate Parking Light Left And Right Command, Light sensor, LIN Anti Tilt Sensor Check, LIN Line Request Check, LIN Siren Check, LIN Ultrasonic Sensors Check, Locate Learned Keys, Lock Doors Command, Lock Inhibition Rear Widows Lifter LED, Lock Rear Doors Relay, Lock Unlock Doors LED, Longitudinal Anti Tilt Sensor, Loud Speaker Test, LOW BEAM Left Command, Low Beam Left, Low Beam Light Left, Low Beam Light Right, Low Beam Lights Halogen, Low Beam Lights Left Right, Low Beam Lights, LOW BEAM Right Command, Low Beam Right, Low Beam Xenon, Low Beams, Low Fuel Lamp, Low Reverse Solenoid, Low Speed Fan Relay, Low Temp Passive Pump 2, Low-Reverse Solenoid, LPG Failure - Reserve, LPG Led Command, LR Clutch Volume Index Check, Main-Left Temp. Door Position, Microphone Test, Mid Range Settings, Mid-Range Audio Level Settings, Mid-Range Settings, Mirror Heater, Mirror LED, Mode Selection, Module Self Test, Motorized throttle command, MProp Command (High Pressure), MS Solenoid, Multiair VVA Solenoid 1, Multiair VVA Solenoid 2, Multiair VVA Solenoid 3, Multiair VVA Solenoid 4, Neutral Gate Test (62TE), Neutral Gate Test (RFE), Night lighting command, Night lights, O2 1/1 Heater Duty-Cycle, O2 1/2 Heater Duty-Cycle, O2 Heater Test, O2 Sensor and Catalyst Test, O2 Sensor Heater Bank1 Sensor1, O2 Sensor Heater Bank1 Sensor2, O2 Sensor Heater Bank2 Sensor1, O2 Sensor Heater Bank2 Sensor2, OBD Vent Valve Command, OD Clutch Volume Index Check, Odd gear clutch (K1) control|solenoid valve command, Odd gear clutch K1 control solenoid valve command, 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 rear left activation, Outlet Valve Rear Left, Outlet valve rear right activation, Outlet Valve Rear Right, Outlet Valve Right Front, Outlet valve RL activation, Outlet valve RL, Outlet valve RR activation, Outlet valve RR, Over Drive Solenoid, Over-Drive Solenoid, Overdrive Switch Test (Non-RFE), OverDrive Switch Test (RFE), Overdrive Switch Test, Oxygen Sensor 1/1 Heater Duty Cycle, Oxygen Sensor 1/2 Heater Duty Cycle, Oxygen Sensor 1-1 Heater Duty-Cycle, Oxygen Sensor 1-2 Heater Duty-Cycle, Oxygen Sensor 2-1 Heater Duty Cycle, Oxygen Sensor 2-1 Heater Duty-Cycle, Oxygen Sensor 2-2 Heater Duty Cycle, Oxygen Sensor 2-2 Heater Duty-Cycle, Parking Assistant LED, Passenger and Rear Doors Unlock, Passenger Door Handle And Puddle Light LED Command, Passenger Door Lock Status LED Command, Passenger Door Power Window, Passenger Door Unlock, Passenger Doors Status - Deterrence LED, Passenger Heated Seat Relay, Passenger seat Air-bag manual deactivation indication, Passenger Seat Movement Relay Command, PEPS Ignition Switch LED Command, Pilot 1 (USV1-Normally Open), Pilot 2 (USV2-Normally Open), Pilot valve 1 activation, Pilot Valve 1, Pilot valve 2 activation, Pilot Valve 2, Port Injection Valve 1 Command, Port Injection Valve 2 Command, Port Injection Valve 3 Command, Port Injection Valve 4 Command, Port Injection Valve 5 Command, Port Injection Valve 6 Command, Position lamp indication, Position Lamp Indicator, Position Light Relay, Power Down, Power limitation function, Power Steering Failure Indication, Power Steering Failure Indicator, PPV1 Electro-Valve, PPV-K2 Clutch Electro-Valve, PPVS Electro-Valve, Pressure Control Solenoid Valve, Priming 1 (HSV1-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 Surge Solenoid, PTC Control (Relay), PTC Control, PTC High Power (Relay), PTC Low Power (Relay), Puddle Light Command Driver Side, Puddle Light Command Passenger Side, Puddle light Driver (Door handle and door panel), Puddle light Driver side, Puddle Light Driver, Puddle light Passenger (Door handle and door panel), Puddle light Passenger side, Puddle Light Passenger, Puddle Light Rear Driver(Door Handle And Door Panel), Puddle light Rear Left (Door handle and door panel), Puddle Light Rear Passenger(Door Handle And Door Panel), Puddle light Rear Right (Door handle and door panel), Puddle Light, Puddle Rear Light Left, Puddle Rear Light Right, Purge canister valve command, Purge Solenoid Duty Cycle, Purge Valve Duty-Cycle, Purge Vapors Test, QPV K1 Clutch Electro-Valve, QVPM Enable Command, Radiator Cooling Fan PWM Cntrl State, Radiator

Cooling Fan PWM Control State, Radiator Cooling Fan PWM D-Cycle, Radiator Cooling Fan PWM Duty-Cycle, Radiator Cooling Fan Relay 1 Control State, Radiator Cooling Fan Relay 2 Control State, Radiator-Condenser Cooling Fan Relay 1 Control State, Radiator-Condenser Cooling Fan Relay 2 Control State, Radio Volume, Rain and Automatic Lights Sensors Check, Range Selection Electrovalve Command (PPVS), Range selection electrovalve command, Read VIN, 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, Rear Department, Rear Door Status LED, 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 Heated Window, Rear HVAC Blower Motor, Rear Left Handle And Puddle Light LED Command, Rear Left Heating Command, Rear Left Parking Light, Rear Left Position Light, Rear Left Turn Light, Rear Left window lifter command, Rear Load Compartment Status LED Command, Rear Parking Light - Side Markers, Rear Parking Light / Side Markers, Rear Parking Lights Command LED, Rear Parking Lights Command, Rear Reverse Light (Movable), Rear Reverse Light Left -T2 (952), Rear Reverse Light Right -T2 (952), Rear Reverse Lights -T2 (949), Rear Right And Left Tail T2 (Movable), Rear Right Handle And Puddle Light LED Command, Rear Right Heating Command, 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 Command, Rear Window Washer, Rear Window Wiper (949), Rear WINDOW Wiper Command, Rear Window Wiper, Rear Wiper, Rec Motor, Recirc. Door Actuator Position, Recirculation Motor, Recirculation pump activation, Recirculation Pump, Red LEDS Activation, Redundant Ignition RUN/START Feed Output Control, Redundant Ignition RUN-START Feed Output, Repetition Driver Door Open For MTA (NCR), Repetition driver door open for MTA (Robotic Gear), Reverse Gear Clutch Test (62TE), Reverse Gear Clutch Test (Non-RFE), Reverse Gear Clutch Test (RFE), Reverse Gear Light, Reverse Gear Lights And Electrochromic Mirror Command, Reverse Gear Lights, Reverse Lamp, Right (Front/Central/Rear) Turn Lights, Right (Front-Central-Rear) Turn Lights, Right (Front-Rear) Parking Lights, Right Air Mix Motor, Right Air Mixing Motor, Right DRL, Right Front Park Lamp, Right Front Turn Light-Lateral, Right Parking Lights, Right Rear Tail Light (Fixed), Right Rear Tail Light, Right Rear Turn Lights (EMEA), Right Rear Turn-Stop (NAFTA), Right SBL Command, Right Temp. Door Actuator Position, Right Turn Indicator, Right Turn Light, Right Turn Lights, Right turn signal lamp indication, Right Turn Signal Lamp Indicator, Right Turn Signal Lamp, RL Command Electrovalve, RR Command Electrovalve, Safety Indication Adaptive Cruise Control, Safety Indication Forward Collision Warning, Safety Indication Normal And Adaptive Cruise Control, Safety Indication Normal Cruise Control, Safety indication, Satellite digital audio receiver (SDAR) station selection, SBMT (Supply Battery Monitoring Time), SBMT 0, SBMT -Supply Battery Monitoring Time, SBMT, SBMT2 (Supply Battery Monitoring Time), Screen Test Pattern, SDAR Station Selection, SDC Status Red LED, SDC Status White LED, Seat Belt Lamp, Seat belt unfastened Lamp, Seat belt unfastened Warning cycle, Seat Belt Warning Chime, Secondary Air Pump, Secondary Air Solenoid, Seek Status Tuner AM-FM, Seek Status Tuner DAB, Seek Status Tuner Digital Audio Broadcasting (DAB), Seek Status, Set All Backlight Leds At PWM Value, Set All Functional Leds At PWM Value, Set Engine RPM Test, Set Engine RPM, SET PWM Display (Brightness), Set Transercase Clutch Torque, Setting Dimming Levels (DISPLAY), Shift Lever Position Test (62TE), Shift Lever Position Test (Non-RFE), Shift Lever Position Test (RFE), Shift Lock Coil Command, Shift Lock Command, Shift Solenoid 1, Shift Solenoid 2, Shift Solenoid 3, Shift Solenoid 4, Shift Solenoid 5, Shift Solenoid 6, ShiftLock, Side Marker Front, Side Marker Lamps, Side Marker Lights Rear -T1 (952), Side Markers Command, Side markers, Siren Test, Small Leak Verification Test, Speaker Quadrant Selection, Sport Led, SS Command LED, SS LED command, SSB BACKLIGHT Control, Start Stop activation, Station

Selection, 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 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, StopStart LED Command, StopStart LED, Street Bending Light (SBL) Left, Street Bending Light (SBL) Right, Sunroof Abilitation, Surge Solenoid Control State, Surge Valve Solenoid, Tail LAMP Parking Light Left Command, Tail LAMP Parking Light Right Command, Tail LAMP Stop Light Left Command, Tail LAMP Stop Light Right Command, Tail Or Tail Side Marker Rear Left -T1 (949), Tail Or Tail Side Marker Rear Right -T1 (949), Tail Rear Right And Left -T2 (949), Tail Stop Or Tail Stop Turn Rear Left -T1 (952), Tail Stop Or Tail Stop Turn Rear Right -T1 (952), Tail Stop Rear Left -T2 (952), Tail Stop Rear Right -T2 (952), TCC Pressure Control Solenoid, TCM VIN Verification, Test Pattern Display, Thermistor Test, Thermostat activation command, Throttle Valve Test, Tire Pressure Module ( TPMS), Tire Pressure Module (TPMS) not available-not programmed, Tire Pressure Module (TPMS), Tire Pressure Warning Lamp, Tone Test, Tow Bar Activation, TPM Sensor Rolls Test, TPMS Failure Lamp, TPMS Generic Failure Monitoring Lamp, TPMS Not Available - Not Programmed, TPMS Warning Light, Transmission Verification Test, Treble Level Settings, Treble Settings, Trunk Lamp, Trunk Latch Command relay, Trunk Light + Inadvertent Lights, Trunk Light Command, Trunk Light, Trunk Opening Relay Command, Trunk Opening Relay, Trunk Release Relay Command, Trunk Release Relay, Tumble Generator Valve, Turbo oil supply valve command (half engine mode) command, Turbocharger Pressure Actuator Command, 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 Light Front - Lateral Left, Turn Light Front - Lateral Right, TURN Light Front Left Command, Turn Light Front Left, TURN Light Front Right Command, Turn Light Front Right, TURN Light Lateral Left Command, TURN Light Lateral Right Command, Turn Light Rear - Lateral Left, Turn Light Rear - Lateral Right, Turn Rear Backup Left Light, Turn Rear Backup Right Light, Turn Rear Lateral Lights Left, Turn Rear Lateral Lights Right, Turn Rear Light Left -T1 (EMEA), Turn Rear Light Right -T1 (EMEA), Turn Stop Rear Left Light -T1 (NAFTA), Turn Stop Rear Right Light -T1 (NAFTA), Tyre Pressure Module ( TPMS), UD Clutch Volume Index Check, UGDO (Universal Garage Door Open) enable command, Under Inflation Lamp, Under Inflation Monitoring Lamp, Underdrive Solenoid, Under-Drive Solenoid, Universal Garage Door Open, Unlock doors command, Unlock Doors, Upstream lambda probe heater bank1 command, Upstream Lambda Probe Heater Bank2 Command, Upstream lambda probe heater command, USB1 CMD, USB1 LED CMD, USB2 CMD, USB2 LED CMD, User Interface Test, Vacuum Pump Relay, Valve multiair system activation cyl.1, Valve multiair system activation cyl.2, Valve multiair system activation cyl.3, Valve multiair system activation cyl.4, Variable coolant pump command, Variable displacement oil pump command, Variable swirl actuator closing command, Vehicle Speed Cluster, Video Input Settings, VLP Solenoid, Volume Knob Illumination Power, VSO Regeneration Command, VVA Cylinder #1, VVA Cylinder #2, VVA Cylinder #3, VVA Cylinder #4, VVA Solenoids Pre-Energization, VVT Exhaust Phaser 1 Actuator, VVT Exhaust Phaser 2 Actuator, VVT Intake Phaser 1 Actuator, VVT Intake Phaser 2 Actuator, Waste gate valve command, Wastegate Solenoid Control State, Wastegate Solenoid Duty Cycle, Water In Fuel Filter Lamp Command, Welcome Lights Command, Wheel Speed Sensor Functional Test, Window Heater Led, Window Lifter Switch Enable, Windshield heater, Windshield Heating, Windshield Washer Command, Windshield Washer Relay, Windshield Washer, Windshield Wiper Relay, Windshield wiper, Wiper Status

## New Audi Coverage

10 new Adjustment type special tests:

Activation Of Parking Spot Search Park Assist Control Value, Button Automated Driving Lighting Test Control Value, Front Parking Aid Loudspeaker Control Value, FV Safe State Simulation Control Value, Main Beam Activation Control Value, Park Assist Activation Of Partner Control Units Control Value, Parking Aid Activation Control Value, Rear Parking Aid Loudspeaker Control Value, System Identification, Windscreen Heater For Camera Control Value

### 3 new Actuation type special tests:

Reset Frequency Counter, Reset of Adjustment/Calibration Values, Transfer Configuration

## New BMW Coverage

- Added coverage for 210 new system applications

### 313 new Adjustment type special tests:

A/C Air Distribution Flap Test, A/C Compressor Adaptation, A/C compressor run-in protection, Activate electric fuel pump, Activate HUD, Activate HV battery charge cycle, Activate intelligent alternator control, Activate Parking Brake After Pad Replacement, Activate Parking Brake For Pad Replacement, Activate Vehicle Mode, Activate/Deactivate Start/Stop Function, Activate/Deactivate Transportation Mode, Activate/Stop/Status DSC Bleeding(HL), Activate/Stop/Status DSC Bleeding(HR), Activate/Stop/Status DSC Bleeding(VL), Activate/Stop/Status DSC Bleeding(VR), Adaptation (10) / Long Adaptation (0A), Adaptation for Lambda control, Adaptation Of Idle Speed, Adaptation of immobilizer, Adaptation thermostat map, Adapting Of Control Motors, Adaption Function Reset, Adblue Circuit System Drainage, AdBlue pump initialisation, Adjust Fuel Consumption Display Correction Factor, Adjust Wastegate Linkage, Adjusting The Electromotive Throttle Controller, Air Conditioner Control Motors: Adapt Positions To The System, Air Conditioner Control Motors: Adapting, Air Conditioner Control Motors: Service Position Activation, Air Mix Flap Initialization, Airbag Configuration, Air-Conditioning System Control Unit Reset, Alarm Horn Adjustment, Ambient lighting adaptation, Ambient lighting: Automatic addressing, Analog Paddle Reset, Assembly Position Of Window Lifters, Assistance Driving Light Activation/Deactivation Delay, Audible Locking Confirmation, Audible Unlocking Confirmation, Auto. setting air damper control motors, Auto-Lock, Autom. transm. adaptation values reset, Automatic transmission control unit reset, Automatic transmission oil level check, Auto-Unlock, Auxiliary Battery (24V EPS) Exchange, Average consumption display correction, Balance Value Of LL (idle) Program, Basic Setting, Basic Settings (04), Battery Exchange Register, Battery Replacement, Battery Replacement, Register Aux.Batt, Bleed Cooling System, Bleed Fuel System, Bleed, Bluetooth Activate/Deactivate, Bluetooth interface activation/deactivation, Brake Fluid Flush Reminder (CBS) Reset, Brake Pedal Pos. Sensor Zero Pos. Compensat., Calibrate Acceleration Sensor, Calibrate Stepper Motors, Calibration Run of the Flap Motors, CAN Learning Messages Reset, Central electronics control unit reset, Charge air suspension struts, Charge condition HV battery history, Classic Memory Reset, Clearing Adaptation Values, Clutch Parameters Adaptation, Coding Data Reset Control, Comfort Operation (via Remote Control), Comfort Turn Signals (Cycles), Coming Home Activation Time, Commissioning Electric Parking Brake, Control unit re-start, Controller Coding (07), Deactivate HUD, Deactivate intelligent alternator control, Deactivate Parking Brake For Pad Replacement, Delete Adaptations, Delete the personal profile, Diesel particulate filter regeneration run, Diesel Particulate Filter Regeneration, Diesel Particulate Filter Register Replacement, Disassembly position of window lifters, Display And Reset Adaptation Values, Drain air spring struts, Drain Fuel Tank, Driver's Door Power Window Regulator Initialisation, Driving Dynamics Sensor Adjustment, Dry test AdBlue dosing valve, DSC Brake Bleed Procedure, ECU Reset, EGR valve mounting position, Electric vacuum pump statistical data reset, Electrical Steering Column Adjustment - Partial Normalization, Electrical Steering Column Adjustment Normalization, Electrical Steering Column Adjustment Standardization, EME: Teach-in Parking

Lock Module, EPS: Steering Start-Up, ESB Hydraulic-System Bleeding, ESP Control Unit: Restart, ESP Interchange Test, ESP Sensor Ring Test, Exhaust flap adaptation, Exhaust Gas Analysis Maintenance Reset, Exhaust Gas Recirculation Valve Basic Setting, Factory Mode, First initialization, Footwell Lighting Dimming (With Open Door), Footwell Lighting Dimming (with Terminal 58d), Front Brake Pad Wear Indicator Reset, Front Driver/Pass Door Power Window Regulator Initialization, Front Passenger's Door Power Window Regulator Initialisation, Fuel Consumption Display Adjustment, Head Restraint Adjustment, Headlight range control functional test, Headlight Washer Activation Delay, Head-up display test, High-pressure pump adaptation, High-voltage Battery:Read-Out History of Last Charg Procedure, HV Battery Charge, HVAC: Installation Position of Flap Motors, ICM Sensor Adjustment, Idle Adjustment, Idle Speed Adjust, Idle Speed Set Point, IMA CYL 7, IMA CYL 8, Inclination Sensor Sensitivity, Initialise puncture indicator, Initialization Of Both Front Window Lifters, Initialization Of Both Rear Window Lifters, Initialization of Soft Top, Initialization SCR tank system, Initialize New Fuel Pump, Initialize Power Window Regulators, Initializing the electric machine, Injector Quantity Adjustment, Inspection/Service Interval Reset, Instrument cluster: Date/time configuration, Interior Monitoring Sensitivity, Keyless entry: Deactivate/activate, Knock Sensor Adaptation, Learn rotor position, Learned Values Reset, Learning of valve lift control end stops, Leaving Home Time, LIN-bus Reset, Load Regulation Adaptation, Log-in(11) Adaptation(10), Log-in(11) Basic Settings(04), Log-in(11) Controller Coding(07), Log-in(11) or Coding II(11), Metered quantity measurement, Microfilter Reset, Microphone Sensitivity Adjustment, Mixture Adaptation, Move to exhaust flap installation position, Move to fitting position, MSA Starter Exchange/Reset, MSA: System Check, Neutral Learning Mode, Neutral position detection, Neutral Position Sensor Adapting, Newly Address The Air Distribution Flap Motors, Octane number adjustment 95 RON, Octane Rating Adaptation, ODPF Offset Value, Oil Service Reset, Particle Filter Exchange, Particle Filter Replacement, Passenger Seat Normalization, Passive tank line connection vent, PDC Sensor Functional Test, Perform Control-module Reset, Program idling speed, Program Injector 1, Program Injector 2, Program Injector 3, Program Injector 4, Program Injector 5, Rain Sensor Initialization, RDC Initialization, Read AdBlue tank level values, Read airbag igniter circuits status, Read identification of control units, Read out fuel quality counter, Read Out Measured Values For Automatic Transmission, Rear axle adaptation values reset, Rear Brake Pad Wear Indicator Reset, Rear Driver/Pass Side Door Pwr Window Regulator Initialization, Rear Lid Basic Setting, Rear Window Outside Mirror Heater Activation Time, Rear wiper test reference run, Registration after SCR CAT change, Registration starter exchange, Remote Control Adaptation, Replace Injector1, Replace Injector2, Replace Injector3, Replace Injector4, Replace refrigerant, Reset Adaptation Parameters, Reset Adaptation Value, Reset adaptation values air mass system, Reset Adaptation Values, Reset AdBlue metering module adaptation, Reset after AdBlue exchange adaptation, Reset after changing NOx sensor, Reset after diesel partic. filter replacement, Reset Auxiliary Heater Start Inhibit, Reset CAN adaptation values, Reset clutch adaptation values, Reset Control Unit, Reset Cooling Media Compressor Gen. 2.0, Reset EGR Adaptation Values, Reset electric fuel pump adaptation values, Reset exhaust sensor adaptation, Reset Flywheel Adaption Values, Reset Fuel Minimum Quantity Adaption, Reset idle adaptation, Reset Injector Adaptation Values, Reset knock control adaptation, Reset Lambda Sensor Adaptation Values, Reset Learned CAN Message, Reset Learning Function, Reset load adaptation, Reset mixture adaption, Reset puncture indicator, Reset Rear Axis and Learned Can Message, Reset SCR tank system adaptation, Reset Start Inhibit Due To Lack Of AdBlue, Reset Start/Stop Counter, Reset Starter Lock, Reset Steering Angle Calibration, Reset steering wheel paddles, Reset swirl flap control adaptation values, Reset the assembly mode, Reset The Production Mode For The Fuel Pump Control Module, Reset Tone Setting, Reset transfer case oil wear data, Reset transmission adaptation values, Reset Transmission Adaption Values, Reset uneven running segment times, Reset valve lift adaptation, Reset VVT minimum lift adaptation, Resetting adaptation values

start/stop fct., Resistances of airbag igniter circuits, Rotor Position Sensor Adjustment, SCR-tank system initialisation, Seat belt fastening assistance adaptation, Seat Control Unit Initialization, Seat Occupancy Detection, Front Passenger, Selective (Single) Door Locking, Selector lever control unit reset, Sensor Unit Zero Position Compensation, Service Requirement Reset, Settings, Slide/Tilt Sunroof Initialization, Spark duration diagnosis - 4 Cylinder, Spark duration diagnosis, Spark Plug Maintenance Reset, Start Auto-address for Flap Motors, State Inspection Reminder Reset, Steering Angle Sensor Adjustment, Steering column adjustment adaptation, Steering column adjustment initialisation, Steering Column Reset Counter For All Blocked Movements, Suction jet pump activation, Supplementary Heater: Reset Starter Interlock, Teach-in Exhaust Flap Or Move It Into Installation Position, Test AdBlue metering valve spray pattern, Test of transmission parking lock, Test spray nozzles / exterior mirror heating, Throttle Valve Adaptation, Throttle Valve Basic Setting, Tire Pressure Monitoring: Deactivating The Production Mode, Tire Pressure Sensor Registration, TPMS/RDC - Reset Production Mode, Transfer Box - Calibration, Transfer Box - Replace Control Unit, Transfer Box (VTG): Replace Control Unit, Transfer Box Oil Change, Transfer Box: Repair, Transfer Case Calibration, Transfer case oil change, Transfer case type encoding, Transm. oil check after TC/mechatr. repl., Transmission - Oil Level Adjustments, Transmission flush function, Transmission oil level indicator, Transmission position P adaptation, Transmission setting adaptation, Turbocharger adjustment, Valve current adapting, Valve lift control end stop run-in, Valvetronic Limit Position Learning Mode, Valvetronic Running-in Phase, VANOS Adaptation, Variable camshaft timing adaptation, Variable tract intake manifold adaptation, Visual Comfort Operating/Closing Confirmation, Visual Locking Confirmation, Window lifter motors: Adapting, Window Lifter Standard Initialization, Windshield Wiper Service Position Adjustment, Windshield wiper test reference run, Zero Speed Learning

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

A/C Compressor Magnetic Coupling, A/C Compressor, ABS Pump Activation Test (5 seconds), AC Compressor, AC Control Panel Button - ALL, AC Control Panel Button - Auto Left, AC Control Panel Button - Auto Right, AC Control Panel Button - DEFROST, AC Control Panel Button - GBL Minus Left, AC Control Panel Button - GBL Minus Right, AC Control Panel Button - GBL Plus Left, AC Control Panel Button - GBL Plus Right, AC Control Panel Button - HHS, AC Control Panel Button - KLIMA, AC Control Panel Button - LV Left, AC Control Panel Button - LV Right, AC Control Panel Button - MAX AC, AC Control Panel Button - UMLAUC, Activate DC/DC Converter HV Current 10A in Buck mode, Activate DC/DC Converter HV Current 10A in Standby mode, Activate DC/DC Converter HV Current 20A in Buck mode, Activate DC/DC Converter HV Current 20A in Standby mode, Activate DC/DC Converter HV Voltage 100V in Buck mode, Activate DC/DC Converter HV Voltage 100V in Standby mode, Activate DC/DC Converter HV Voltage 200V in Buck mode, Activate DC/DC Converter HV Voltage 200V in Standby mode, Activate DC/DC Converter LV Current 100A in Buck mode, Activate DC/DC Converter LV Current 100A in Standby mode, Activate DC/DC Converter LV Current 150A in Buck mode, Activate DC/DC Converter LV Current 150A in Standby mode, Activate DC/DC Converter LV Voltage 15V in Buck mode, Activate DC/DC Converter LV Voltage 15V in Standby mode, Activate DC/DC Converter LV Voltage 25V in Buck mode, Activate DC/DC Converter LV Voltage 25V in Standby mode, Activate EME ZSE Relay Open Close, Activate SDARS, Activate/Stop/Status DSC Pulse Valves(AVHLAVHR), Activate/Stop/Status DSC Pulse Valves(AVVLAVVR), Activate/Stop/Status DSC Pulse Valves(EVHLEVHR), Activate/Stop/Status DSC Pulse Valves(EVVLEVVR), Activates/Deactivates DME Idle Speed Controller, Activation EME Drive, Activation EME Electronic Motor Generator, Activation ZSE Battery Register, Actuate of the Blower Output Stage, Actuation, Electric Fuel Pump, Actuator Test, Additional EGR Cooler Bypass, Additional Water Pump for Low-temperature EGR Circuit, Air Flap 1, Air Flow Control 2, Air Intake Test(Analog; Gen. 2), Air Suspension Sensor Initialization, Air Valve 2, Air Valve, AKKS Status, Alarm System Emergency Power Siren, Alarm

System Light-Emitting Diode, Audio system self test, Auto-Hold Indicator Lamp, AutoHold LED Control, Automatic Engine Start / Stop, Automatic Engine Stop Disable, Auxiliary Heater, Auxiliary Water Pump Low Temp EGR Circuit - Status, Auxiliary Water Pump, Backrest Adjustment, Backrest Adjustment: Width, Backrest Head Adjustment, BDC Terminal\_15 (de-)activation, Black Test Card, Blinkers, Blow by Heater, BlowBy Heating Element Status, Blower at 80%, Blue Test Card, Boost Pressure Actuator, Boost Pressure Plate 1 Trigger, Boost Pressure Regulator 1, Boost Pressure Regulator 2, Boost Pressure Regulator Offset, Brake Light, Brake Lights, Brake Line Mix-up test, Button LED, Button Lighting, Camera functional test, Cent. Locking Full Veh. Unlocking, Centr. Lockg. Unlock Driver Door, Central Locking Safe Function, Check Antennas, Close Slide / Tilt Sunroof (SHD), Close Sliding Head Liner (ESH), Clutch Function Test With Delete Angle, Clutch Function Test, Compressor Bypass Valve, Compressor Bypass, Compressor Clutch, Consumption Curve, Control Auxiliary Fan, Control Device Replacement Without Value Transfer, Control Flap Motor Addressing - Direction of Movement, Control Knob Clockwise Turn, Control Knob Counter-Clockw. Turn, Control Tank Ventilation Valve, Control The Electric Cooling Fan, Control Valve In A/C Compressor, Controlled Air Flow Control, Coolant Circuit Thermostat, Coolant System Ventilation, Coolant Temp Operation, Cooling System Ventilation, Cornering Light Functional Test, Cornering Light, Crank Case Vent Heater, Cruise Control Marking Test, Cylinder Homogeneous Equality Function, Deactivate Hard Disk Protection Mode, Defroster Flap 100%, Defroster Flap at 0%, Delete Coupled Bluetooth Devices, Detection Gasoline In Oil, Determining The Injector, Diagnosis Module, Tank Leakage : Heating, Diagnosis Module, Tank Leakage : Pump, Diagnosis Module, Tank Leakage : Valve, Dim mirror, Disable The Oil Level Sensors, Display Control Test - Bit Pattern 1, Display Control Test - Bit Pattern 2, Display Control Test - Bit Pattern 3, Display Control Test - Bit Pattern 4, Display Control Test - Bit Pattern 5, Display Control Test - Bit Pattern 6, Display Control Test - Bit Pattern 7, Display Control Test - Bit Pattern 8, Display Test, Divert Air Solenoid Valve, Door Interior Handle Illumination, Driver Seat Normalization, DXC Status, Dynamic-Pressure Flap at 0%, Dynamic-Pressure Flap at 100%, E-Box Fan Control, EGR Bypass Flap, EGR Control, EGR Valve, Electric Auxiliary Water Pump-LIN, Electric Coolant Pump, Electric Fan Actuation, Electric Fan Relay, Electric Fuel Pump on FPC, Electric Fuel Pump, Electric Valve On Active Tank (SCR), Electrical Fan, Electronic Ride Height Control (EHC): Ride Height Sensors, Electronics Box Fan, Emergency Function Auxiliary Water Pump, Emergency Loudspeaker Test, Emission Warning Lamp (MIL), Ended All Actuators Started with Diagnostic, Engine Malfunction Lamp, Engine Mounting, Engine Oil Quantity, ESP Test, Evaluate the Battery State of Charge, Exhaust Flap, Exhaust Gas Recirculation, Exhaust Gas Temp Sensor before OxiCat Status, Exhaust Gas Temperature Pre DPF, Expansion Tank Valve Status, Exterior Mirror Self Test, Exterior mirror test, Exterior mirror: System self-test, FBM 1 Sensoric Test, FBM 1 Test, FBM 2 Sensoric Test, FBM 2 Test, FBM 3 Sensoric Test, FBM 3 Test, FBM 4 Sensoric Test, FBM 4 Test, FBM 5 Sensoric Test, FBM 5 Test, FBM 6 Sensoric Test, FBM 6 Test, FBM 7 Sensoric Test, FBM 8 Sensoric Test, FBM 8 Test, FDC Status, FGR Status, FIGA Function DSC Status, FKA Blower, Flap Motor Opening - Bel Left Middle, Flap Motor Opening - Bel Left Outside, Flap Motor Opening - Bel Left, Flap Motor Opening - Bel Right Middle, Flap Motor Opening - Bel Right Outside, Flap Motor Opening - Bel Right, Flap Motor Opening - Defrost, Flap Motor Opening - Fan, Flap Motor Opening - FL Fan, Flap Motor Opening - FL Stau, Flap Motor Opening - Left Foot, Flap Motor Opening - Left Layer, Flap Motor Opening - Left Rear Foot, Flap Motor Opening - Left Rear Layer, Flap Motor Opening - Right Foot, Flap Motor Opening - Right Layer, Flap Motor Opening - Right Rear Foot, Flap Motor Opening - Right Rear Layer, Flap Motor Opening - STAU Pressure, Fog Lights, Fold/Unfold Mirrors, Footwell Flap, Front Left, at 0%, Footwell Flap, Front Left, at 100%, Footwell Flap, Front Right, at 0%, Footwell Flap, Front Right, at 100%, Footwell Flap, Rear Right, at 0%, Fresh Air and Recirculated Air Flap at 0%, Fresh Air and Recirculated Air Flap at 100%, Front Blower, Front Door Power Windows Regulator Initialisation, Front Driver Side Power Window Close, Front Driver Side Power Window Open, Front Left Seat Heater Button, Front Left

Seat Heating Stage 1, Front Left Seat Heating Stage 2, Front Left Seat Heating Stage 3, Front Left Seat Heating, Front Passenger Side Power Window Close, Front Passenger Side Power Window Open, Front Right Seat Heater Button, Front Right Seat Heating Stage 1, Front Right Seat Heating Stage 2, Front Right Seat Heating Stage 3, Front Right Seat Heating, Fuel Evaporation Regeneration Valve, Fuel Filter Heater Status, Fuel Filter Heating, Fuel Injector 1, Fuel Injector 2, Fuel Injector 3, Fuel Injector 4, Fuel Injector 5, Fuel Injector 6, Fuel Pressure Regulator, Fuel pump - CAN, Fuel Pump (EKPS) Activation - 120 L/hr, Fuel Pump Activation - Full Load, Fuel Pump Reset, Fuel Pump Timeout, Fuel Pump, Fuel Quality Recognition, Fuel Tank Ventilation Valve, Functional Display, GBX Position Sensor Status, Gear Change Idle Speed Activation, Gear Oil Pump Relay, Generator - Exciter Current Limit, Generator - Load Response, Generator - Nominal Voltage, Generator Control, Glow Plug Relay, Green Test Card, GSG Status, Headlight Washer System, Heating-Heater Relay (SCR), Heating-pressure line (SCR), Heating-tank (SCR), Heating-tank 2 (SCR), HFM-Disconnection, High Pressure Compressor Bypass 1, High Pressure Compressor Bypass 2, High Pressure Pump Relay, High Pressure VNT, High Pressure VNT1, High Pressure VNT2, High Voltage Safety Status, High-Beam Headlights, Hill Hold Control Button Led, Horn Relay, Horn, HUD Full Brightness, IBS Current Measurement Control, IHKA Indicator Lights, Illumination (LED AC Max) Control, Illumination (LED AC) Control, Illumination (LED All) Control, Illumination (LED AUC) Control, Illumination (LED Auto Left) Control, Illumination (LED Auto Right) Control, Illumination (LED Defrost) Control, Illumination (LED HHS) Control, Illumination (LED Left Seat Heating 1) Control, Illumination (LED Left Seat Heating 2) Control, Illumination (LED Left Seat Heating 3) Control, Illumination (LED Left Seat Ventilation 1) Control, Illumination (LED Left Seat Ventilation 2) Control, Illumination (LED Left Seat Ventilation 3) Control, Illumination (LED Right Seat Heating 1) Control, Illumination (LED Right Seat Heating 2) Control, Illumination (LED Right Seat Heating 3) Control, Illumination (LED Right Seat Ventilation 1) Control, Illumination (LED Right Seat Ventilation 2) Control, Illumination (LED Right Seat Ventilation 3) Control, Illumination (LED Space) Control, Illumination (LED UML) Control, Injection Valve 1 Control, Injection Valve 2 Control, Injection Valve 3 Control, Injection Valve 4 Control, Injection Valve 5 Control, Injection Valve 6 Control, Injector (1-3) off (Engine Running Injector KILL Test), Injector (1-4) off (Engine Running Injector KILL Test), Injector (1-6) off (Engine Running Injector KILL Test), Injector (1-8) off (Engine Running Injector KILL Test), Injector (7-12) off (Engine Running Injector KILL Test), Injector B1 (1-4) off (Engine Running Injector KILL Test), Injector B2 (5-8) off (Engine Running Injector KILL Test), Injector Cylinder 1: Deactivation, Injector Cylinder 2: Deactivation, Injector Cylinder 3: Deactivation, Injector Cylinder 4: Deactivation, Instrument Cluster Self Test, Insulation Test of Cooling Media Compressor - Active High-Side, Insulation Test of Cooling Media Compressor - Active Low-Side, Insulation Test of Cooling Media Compressor - No Active, Interior Lighting, Issue Front PDC Signal Tone, Lambda Probe Heating Before Kat (Bank1), Lambda Probe Heating Before Kat (Bank2), Lambda Sensor Heater 2 (Bank 1), LED headlamp test, Left-Rear Power Window: Close, Left-Rear Power Window: Open, LIN Water Pump Activation with 10% Speed, LIN Water Pump Activation with 80% Speed, Load Pressure Plate Low Pressure, Load Pressure Plate, Locator Lighting, Lock (Central Locking), Lock All Doors, Lock and Enable, Low Pressure Compressor Bypass 1, Low-Beam Headlights, Lower Slide / Tilt Sunroof Glass (SHD), Low-temperature EGR Valve Circuit, Lumbar Support Adjustment, LWR Reference Run, Malfunction Indicator Lamp Test, Measure, Measured Data Wheel Electronics, Metering in the AGA (SCR), MIL Lamp, Mirror Heater, Mirror Heating, Mixed Air Flaps at 0%, Mixed Air Flaps at 100%, Most 3DB, Motor Fan Relay, Motor Fan, Move SMC left to bottom left, Move SMC left to bottom right, Move SMC left to top left, Move SMC left to top right, Move SMC right to bottom right, Move SMC right to top left, Move SMC right to top right, MSA Automatic Motor Start-Stop Disabling, MSA2 DEAK DEAKT, MSA2 DEAK DFSP, MSA2 DEAK EA, MSA2 DEAK EV, MSA2 DEAK FAV, MSA2 DEAK SAV, Normal Sleep Mode, No-Signal Test Screen, OBD Readiness Values 2, Offset Error in Combined Fuel Pressure and Fuel Temp Sensor, Oil Pressure Control Trigger, Oil Pressure

Control, Oil Pressure Lamp, Oil Pressure Valve (Regulated Oil Pressure System) Control, Open and Close Radiator Blind, Open IGBTs to Shut off Electric Motor as High-Ohmic on AC Side, Open Slide / Tilt Sunroof glass (SHD), Open Sliding Head Liner (ESH), OTUR Offset Value, Output Check Control Gong, Output Tests (03), Oxygen Sensor Heater Bank 1 Sensor 1, Oxygen Sensor Heater Bank 1 Sensor 2, Oxygen Sensor Heater Bank 2 Sensor 1, Oxygen Sensor Heater Bank 2 Sensor 2, Park Distance Control, Parking Brake Lock Test, PCU on CAN Status, PCU/DCDC Converter Status, Persistent Activation and Persistent Deactivation, Piston Cooling Valve, Power Down, Prefeed Pressure Sensor Status, Pressure Sensor on Particulate Filter Status, Prime Line, Pulse-wheel test, Pump - Passive Tank (SCR), Pump Control, Pump-active Tank (SCR), PWM Fuel Pump Timeout, PWM Fuel Pump, QLT Status, Quantity control valve HDP5, Quantity Control Valve Trigger, Radiator Fan, Raise Slide / Tilt Sunroof glass (SHD), Read actual electric fuel pump, Read Configuration, Read Manufacturer-Specific Data of Flap Motor, Read Out Battery Status, Read Service Needs, Re-Address, Rear center sun blind, Rear Driver and Passenger Window Regulator Initialization, Rear Driver Side Power Window Close, Rear Driver Side Power Window Open, Rear Driver's Door Power Window Regulator Initialisation, Rear Fog Light, Rear left sun blind, Rear Lift / Lower Sequence, Rear Passenger Compartment Footwell Flap Left 0%, Rear Passenger Compartment Footwell Flap Right 100%, Rear Passenger Door Power Window Regulator Initialisation, Rear Passenger Side Power Window Close, Rear Passenger Side Power Window Open, Rear Passenger's Door Power Window Regulator Initialisation, Rear right sun blind, Rear Rotation Angle Control, Rear window lifter: Close, Rear window lifter: Open, Rear Window Washer Pump, Rear Windscreen Wiper, Rear Wiper, Rear-Window Defogger, Red Test Card, Refrigerant Circuit Switch Valve, Refrigerant Compressor, Release of Manual Shift Gate, Release Rear Window, Right-Rear Power Window: Close, Right-Rear Power Window: Open, RL window lifter open and close, RR window lifter open and close, Run in Protection for A/C Compressor, Seat Adjustment/Seat Angle Down, Seat Adjustment/Seat Angle Up, Seat Cushion Extension, Seat Fore-And-Aft Adjustment, Seat Height Adjustment, Front, Seat Ventilation Left Button, Seat Ventilation Right Button, Service Function Measured Data Wheel Electronics, Servo Motor And Clutch Actuation, Set EME Activation Bit, Set EME Refrigerant Valve Active and Close, Set EME Refrigerant Valve Active and Open, Set Front Footwell Flaps to 0%, Set Front Footwell Flaps to 100%, Set Front Stratification Flaps to 0%, Set Front Stratification Flaps to 100%, Set Speed, Set Temperature on AC Control - Left, Set Temperature on AC Control - Right, Set the Running-in Protection for Air-condition Compressor, Set the Running-in Protection for Air-conditioning Compressor, Set Torque, Set Voltage BSD, Shut-off Injector 5, Shut-off Injector 6, SHZH Dosing Pump, SHZH Fuel Warm-Up, SHZH Gluestift, SHZH Test Run, Simulate Pressing The Audio Buttons - Eject, Simulate Pressing The Audio Buttons - Mode, Simulate Pressing The Audio Buttons - On/Off, Simulate Pressing The Audio Buttons - Search Left, Simulate Pressing The Audio Buttons - Search Right, Simulate Pressing The Audio Buttons - TP, Smooth running evaluation - 4 Cylinder, Smooth running evaluation, Solenoid Valve, Tank Ventilation, Solenoid Valve, Secondary Air, Sound damper, Speed Cooling Media Compressor, Spin Flap, Start Relay, Start Station Search, Start up/Drop HV System, Starter, Start-up lane change warning sensors, Station Search For Strongest TV Channel, Steering Wheel Vibration, Stepper Motors Self Test, Stratification Flap, Front Left, at 0%, Stratification Flap, Front Left, at 100%, Stratification Flap, Front Right, at 0%, Stratification Flap, Front Right, at 100%, Stratification Flap, Rear Left, at 0%, Stratification Flap, Rear Left, at 100%, Stratification Flap, Rear Right, at 0%, Stratification Flap, Rear Right, at 100%, Sun Blind Down, Sun Blind Up, Supply Injection, Ignition Relay HDPI, Suppress Mirror Glare, Switch On/Off Radio Data System, Switch On/Off Traffic Reports, System Lamp Test, System Self-Test, System Test, Tail Lights, Tank Ventilation Valve Actuation, Temporary Activation and Temporary Deactivation, Test CD/DVD ejection, Test Pump Available Control, Test Tone With 10,000 Hz, Test Tone With 100 Hz, Test Tone With 1000 Hz, Thermostat Control, Throttle Control, Throttle Valve Actuation 100%, Throttle Valve, Throttle Valve, Bank 2, Time Controlled Sleep Mode,

Transfer Pump, Trigger Motor Bearings, Tuner Frequency 88.9 MHz, Turbocharger Coolant Pump, Turn-Signal Indicator Light (Flashing To Indicate Defect), Turn-Signal Indicator Light (Normal Flashing), Unlock All Doors, Unlock Rear Lid, Valve Coolant Expansion Tank, Vanos Exhaust Valve, Vanos Intake Valve, Variable Intake System 1, Variable Intake System 2, VDM: Study the Adjustment Value, Ventilation Flap, Left, at 0%, Ventilation Flap, Left, at 100%, Ventilation Flap, Right, at 0%, Ventilation Flap, Right, at 100%, VTG Function Check, VVT (VANOS) Relief Relay, VVT Deviation, VVT High Current Control, VVT Tests, Water Heater Valve Left, Water Heater Valve Right, Water Pump Control, Wheel Electronics - Warning and Calibration Data, Wheel Speed Sensor Functional Test, Wheel Speed Sensor Supply, Windscreen Washer Pump, Windscreen Washer, Wiper end position test, Wiper Service Position, Wiper, Speed 1, Wiper, Speed 2

## New Fiat Coverage

- Added coverage for 26 new system applications

### 21 new Adjustment type special tests:

Actuator Calibration, Back Lighting, Exit Logistic Mode, Exit Shipping Mode, Fire Protection System Activate, Front Axle Nominal Tire Pressure, HVAC Actuator Calibration Test, HVAC FGA Self Learning Motors Test, Modify Volumetric Sensors Sensitivity, Oil Service Reset, Proxi Configuration Alignment, Proxi Configuration, Rear Axle Nominal Tire Pressure, Reset Adaptive Data, Reset Service Information, Seat Belts Alarm Enable, Seat Belts Alarm Exclusion, Steering Angle Calibration, Trailer Hook Presence Disabling, Trailer Hook Presence Enabling, VIN Lock

### 640 new Actuation type special tests:

1st Row Ceiling Light, 2nd Row Ceiling Light, 3rd Row Ceiling Light, 4th Row Ceiling Light, A/C Request, A-C Request, Air Defrost Motor Distribution (Left side), Air Defrost Motor Distribution (Right side), Air Distribution Motor Command (Mode), Air Mix Motor, AIR Mixing Motor Command (Left SIDE), AIR Mixing Motor Command (Right Side), Air Mode Motor, Air Rear Motor Distribution, Air Recirculation Motor Command, 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 Lights Front Command, All Lights Rear Command, All Stop Lights (EMEA 949), All Stop Lights (EMEA 952), All Stop Lights (NAFTA 949), All Stop Lights (NAFTA 952), ALL Stop Lights Command, All Stop Lights W-Combined Rear Lighting, All Stop Lights W-O Combined Rear Lighting, All Stop Lights, All Turn Lights Command, Ambient dimming command, Ambient Dimming, Ambient Illumination; Interior, Ambient Light Control, Ambient Light, Ambient Lighting Command, AMP Output Short Test, AMP Output Tone Test, Antilock brake (ABS) failure indication, Assist Call Button Green LED, Assist Call Button Red LED, Assist Call Green Day PWM, Assist Call Green Night PWM, Assist Call Red Day PWM, Assist Call Red Night PWM, Audio Measure AC and DC, Audio Routing, Audio Volume ( Current Source), Audio Volume (current source), Audio Volume (ENT), Audio Volume (INFO 1), Audio Volume (INFO 2), Audio Volume (SIG), Autocheck, Automated Driver Door Ajar Signal, Automated Driver Door Open, Background LED Illumination Level, 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 Leds Control, Backlighting Dimming Command, Backlighting, Backup Light, Backup Lights, Balance Level Settings, Balance Settings, Bass Level Settings, Bass Settings, Battery Coolant Heater, Battery Coolant Pump, Battery-Alternator FAIL-Charge, BLOWER Motor Brushed, BLOWER Motor Brushless, Blower Motor Command, Blower Motor Speed, Blower Motor, Blue Lights, Brake System Failure [EMEA Only], Brake System Failure [US Only], Button LEDs, Button symbol Back-Light PWM Duty, Buzzer Control, Buzzer, Cabin AIR Temperature Sensor Blower, Ceiling Light Front Command, Ceiling Light Front, Ceiling Light Rear Left or Central, Ceiling Light Rear Left, Ceiling Light Rear Right, Ceiling Light, Central high mounted Stop Light (CHMSL),

Central high mounted Stop Light, Central Lock, Central Stop Lamp, Central Unlock, Channel 1, Channel 10, Channel 11 Audio Output Status, Channel 11, Channel 12, Channel 2, Channel 3, Channel 4, Channel 5 Audio Output Status, Channel 5, Channel 6, Channel 7, Channel 8, Channel 9, Charge Port Command CAN, Charge Port Command Hard Wired, Charge Port Request Tester, CHSML and Stop/Turn Lights, Clearance Identification Lights Relay, Comfort Closing And Opening, Comfort ClosingOpening, Comfort ENABLE Command, Comfort Enable, Command Key Unlock, Command Shift Lock, Control chime, D+ Repetition Relay Command, Dasm Safety Indication Adaptive 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 (Halogen), Day Run Light (DRL) Parking Light Left (Xeno), Day Run Light (DRL) Parking Light Left LED, Day Run Light (DRL) Parking Light Left, Day Run Light (DRL) Parking Light Right (Halogen), Day Run Light (DRL) Parking Light Right (Xeno), Day Run Light (DRL) Parking Light Right LED, Day Run Light (DRL) Parking Light Right, Day Run Light (DRL) Parking Turn Light Left, Day Run Light (DRL) Parking Turn Light Right, Daylights and Position Left, Daylights and Position Right, Daylights Halogen Left, Daylights Halogen Right, Daylights Xenon Left, Daylights Xenon Right, Deactivation Parking Sensor LED, Deactivation Parking Sensor, Dead Lock Relay, DeadLock Relay, DeadLock Relay-Independent Driver Door Unlock, Defeat Engine ON, Dimming Graphics, Display Dimming, DNA Status LED 3, Door Ajar Signal To Front Ceiling Dome, Door Ajar, Door Locks, Door Status LED Command, Door Status Led, Doors Status - Deterrence LED Driver Door, Doors Status - Deterrence LED Passenger Door, Doors status - deterrence LED, Drive Style 2 LED Command, Drive style 2 LED, Drive Style 3 LED Command, Drive style 3 LED, Driver Door Ajar Signal To Manual Transmission Automated, Driver Door Ajar Signal To MTA (Manual Transmission Automated), Driver Door Ajar Signal To MTA, Driver Door Handle And Puddle Light LED Command, Driver Door Lock Status LED Command, Driver Door Unlock, Driver Doors Status - Deterrence LED, Driver Heated Seat, Drivers Window Control, DRL - Front Park Lights, DRL Left, DRL Parking Light Left Command, DRL Parking Light Right Command, DRL Right, DSU LED Command 1, DSU LED Command 2, DSU LED Command 3, E-Call Button Backlight LED, E-Call Button Green LED, E-Call Button Red LED, E-Call Green Day PWM, E-Call Green Night PWM, E-Call Red Day PWM, E-Call Red Night PWM, ECO Led Command, ECO LED, ECO-LPG-SS-E-Costing LED Command, Electric seat movement Relay, Electric Seat Movimentation Relay, Electronic Parking Brake (EPB) Failure Indication [US Only], Electronic Power Steering Fail, Electronic Stability Control (ESC) Fail, Electronic Stability Control (ESC) Indicator, Electronic Stability Control (ESC) Off, Enable sunroof unit, EOBD And Engine System Fault Lamp, EPS Adaptive Data Control, ESC (Electronic Stability Control) System Deactivation, External Control Variable Displacement (ECVD), External Mirror Fold, External Mirror Unfold, Externalcrown Light Rear Left LED, Externalcrown Light Rear Right LED, Externally Controlled Variable Displacement (ECVD) Command (DC), Fade Settings, Fader Level Settings, Fader Settings, Fan Climate Relay, FCW Indication Forward Collision Warning, Flasher - Rear backup Left Light, Flasher - Rear backup Right Light, Flasher Front Left, Flasher Front Right, Flasher Rear - Lateral Left, Flasher Rear - Lateral Right, Fog Front Light Left, Fog Front Light Right, Fog Front Lights Left Right, Fog Lamps, Fog Light Led, Fog Lights, Fog Rear Light Left -T2 (952), Fog Rear Light Or Second Backup Light, Fog Rear Light Right -T2 (952), Fog Rear Lights -T2 (949), Forward Collision Warning Fail, Forward Collision Warning OFF, Frequency Step Selection Tuner AM-FM, Frequency Step Selection, Front Ceiling Light - Inadvertent Lights, Front Ceiling Light + Inadvertent Lights, Front Ceiling Light Command Enable, Front Ceiling Light, Front Driver Window Lifter Command Down, Front Driver Window Lifter Command Up, Front DRL Light Xenon, Front Fog Light Left, Front Fog Light Right, Front Fog Lights Halogen, Front Fog Lights, Front Foglights, Front Jet Wiper, Front Lateral Left Turn Lights, Front Lateral Right Turn Lights, Front Left Flasher, Front Left Parking Light, Front Lock doors command, Front Mode Door Actuator Position, Front Parking Light, Front Passenger Window Lifter Command Down, Front Passenger Window Lifter Command Up,

Front Position Light Xenon, Front Position-DRL Light Halogen, Front Right Flasher, Front Right Parking Light, Front Shut-Off Valve Request, Front SIDE Marker Command, Front Side Marker, Front Unlock, Front Wash, Front Wiper Test, Front Wiper, Fuel Filter Heater, Fuel Filter Heating, Functional Leds Control, Gear Lever Position Display Test, Hazard Command LED, Hazard LED Command, Hazard LED, Head Lamp Wash Relay Command, Head Lamp Wash, Head Lamp Washer Relay, Headlamp DRL Parking Light Left Signal, Headlamp DRL Parking Light Right Signal, Headlamp Washer, Heated Rear Window Led Command, Heated Rear Window Relay Command, Heated Rear Window Relay, Heated Rear Window, Heated Seat Left Request, Heated Seat Right Request, Heated Steering Wheel Request, Heated Windows Command, Heater Rear Mirror, Heater Rear Window, High Beam Enabled, High Beam Indicator, High BEAM Left Command, High Beam Left, High Beam Light Left, High Beam Light Right, High Beam Lights, High BEAM Right Command, High Beam Right, High Beam Xenon with shutter, High Beams Lights Halogen, High Beams Lights, High Beams, High Side For Diesel Filter Heater Relay Command, Horn relay command, Horn Relay, Horn, Ice Led, In Motion Menu, Indicator Lamp Airbag, Indicator LED Illumination Level, Indicator Leds Control, Instrument Panel Dimming, Instrument Panel Dimming, Internal Led Night Lights, Internal Night Lights, Internalcrown Light Rear Left LED, Internalcrown Light Rear Right LED, Inverter Enable Command (949), Inverter Enable Command (952), Inverter Enable Command, Inverter Enable, Inverter Switch, Inverter, IP dimming command, Key LED PWM Duty, Key LED, Key lock command, Key Symbol Back-Light PWM Duty, Knob LED control, Lamp Control, Lane Departure Warning (LDW) Left Side, Lane Departure Warning (LDW) Right Side, Lateral Anti Tilt Sensor, Lateral Anti-tilt X Sensor, LCD Back-Light PWM Duty, LCD Symbols, LED Lock Inhibition Rear Widows Lifter, Left (Front/Central/Rear) Turn Lights, Left (Front-Central-Rear) Turn Lights, Left (Front-Rear) Parking Lights, Left Air Distribution Motor, Left Air Mix Motor, Left Air Mix Servo Motor Target Position, Left DRL, Left Front Park Lamp, Left Parking Lights, Left Rear Stop Light (Fixed), Left Rear Tail Light + Side Marker, Left Rear Tail Light, Left Rear Turn Lights (EMEA), Left Rear Turn-Stop (NAFTA), Left Rear Turn-Stop Light (Fixed), Left SBL Command, Left Turn Indicator, Left Turn Light Front-Lateral, Left Turn Lights, Left turn signal lamp indication, Left Turn Signal Lamp, Licence PLATE LED Lights Command, License Plate Lamp, License Plate Light, License Plate Lights Command, License Plate Lights, Liftgate Additional Parking Light Left And Right Command, Liftgate Parking Light Left And Right Command, LIN Anti Tilt Sensor Check, LIN Line Request Check, LIN Siren Check, LIN Ultrasonic Sensors Check, Lock Doors Command, Lock Inhibition Rear Widows Lifter LED, Lock Rear Doors Relay, Lock Unlock Doors LED, Longitudinal Anti Tilt Sensor, Loud Speaker Test, LOW BEAM Left Command, Low Beam Left, Low Beam Light Left, Low Beam Light Right, Low Beam Lights Halogen, Low Beam Lights Left Right, Low Beam Lights, LOW BEAM Right Command, Low Beam Right, Low Beam Xenon, Low Beams, Low Fuel Lamp, LPG Led Command, Main-Left Temp. Door Position, Microphone Test, Mid-Range Audio Level Settings, Mid-Range Settings, Mirror Heater, Mode Selection, Night lighting command, Night lights, Parking Assistant LED, Passenger and Rear Doors Unlock, Passenger Door Handle And Puddle Light LED Command, Passenger Door Lock Status LED Command, Passenger Door Power Window, Passenger Door Unlock, Passenger Doors Status - Deterrence LED, Passenger Heated Seat Relay, Passenger Seat Movement Relay Command, PEPS Ignition Switch LED Command, PTC Control (Relay), PTC Control, PTC High Power (Relay), PTC Low Power (Relay), Puddle Light Command Driver Side, Puddle Light Command Passenger Side, Puddle light Driver (Door handle and door panel), Puddle light Driver side, Puddle Light Driver, Puddle light Passenger (Door handle and door panel), Puddle light Passenger side, Puddle Light Passenger, Puddle Light Rear Driver(Door Handle And Door Panel), Puddle light Rear Left (Door handle and door panel), Puddle Light Rear Passenger(Door Handle And Door Panel), Puddle light Rear Right (Door handle and door panel), Puddle Light, Puddle Rear Light Left, Puddle Rear Light Right, QVPM Enable Command, Radio Volume, Rain and Automatic Lights Sensors Check, 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, Rear Department, Rear Door Status LED, 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 Heated Window, Rear HVAC Blower Motor, Rear Left Handle And Puddle Light LED Command, Rear Left Parking Light, Rear Left Turn Light, Rear Left window lifter command, Rear Load Compartment Status LED Command, Rear Parking Light - Side Markers, Rear Parking Light / Side Markers, Rear Parking Lights Command LED, Rear Parking Lights Command, Rear Reverse Light (Movable), Rear Reverse Light Left -T2 (952), Rear Reverse Light Right -T2 (952), Rear Reverse Lights -T2 (949), Rear Right And Left Tail T2 (Movable), Rear Right Handle And Puddle Light LED Command, Rear Right Parking Light, Rear Right 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 Command, Rear Window Washer, Rear Window Wiper (949), Rear WINDOW Wiper Command, Rear Window Wiper, Rear Wiper, Rec Motor, Recirc. Door Actuator Position, Recirculation Motor, Repetition Driver Door Open For MTA (NCR), Repetition driver door open for MTA (Robotic Gear), Reverse Gear Lights And Electrochromic Mirror Command, Reverse Gear Lights, Reverse Lamp, Right (Front/Central/Rear) Turn Lights, Right (Front-Central-Rear) Turn Lights, Right (Front-Rear) Parking Lights, Right Air Mix Motor, Right Air Mixing Motor, Right DRL, Right Front Park Lamp, Right Front Turn Light-Lateral, Right Parking Lights, Right Rear Tail Light (Fixed), Right Rear Tail Light, Right Rear Turn Lights (EMEA), Right Rear Turn-Stop (NAFTA), Right SBL Command, Right Temp. Door Actuator Position, Right Turn Indicator, Right Turn Lights, Right turn signal lamp indication, Right Turn Signal Lamp, Safety Indication Adaptive Cruise Control, Safety Indication Forward Collision Warning, Safety Indication Normal And Adaptive Cruise Control, Safety Indication Normal Cruise Control, Safety indication, SBMT (Supply Battery Monitoring Time), SBMT 0, SBMT -Supply Battery Monitoring Time, SBMT, SBMT2 (Supply Battery Monitoring Time), Screen Test Pattern, SDAR Station Selection, SDC Status Red LED, SDC Status White LED, Seat Belt Lamp, Seek Status Tuner AM-FM, Seek Status Tuner DAB, Seek Status, Set All Backlight Leds At PWM Value, Set All Functional Leds At PWM Value, SET PWM Display (Brightness), Setting Dimming Levels (DISPLAY), Shift Lock Coil Command, Shift Lock Command, ShiftLock, Side Marker Front, Side Marker Lamps, Side Marker Lights Rear -T1 (952), Side Markers Command, Side markers, Siren Test, Speaker Quadrant Selection, Sport Led, SS Command LED, SS LED command, 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 And Start Led, Stop Lamp, Stop Light Left, Stop Light Right, 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, StopStart LED Command, StopStart LED, Street Bending Light (SBL) Left, Street Bending Light (SBL) Right, Sunroof Abilitation, Tail LAMP Parking Light Left Command, Tail LAMP Parking Light Right Command, Tail LAMP Stop Light Left Command, Tail LAMP Stop Light Right Command, Tail Or Tail Side Marker Rear Left -T1 (949), Tail Or Tail Side Marker Rear Right -T1 (949), Tail Rear Right And Left -T2 (949), Tail Stop Or Tail Stop Turn Rear Left -T1 (952), Tail Stop Or Tail Stop Turn Rear Right -T1 (952), Tail Stop Rear Left -T2 (952), Tail Stop Rear Right -T2 (952), Tone Test, Treble Level Settings, Treble Settings, Trunk Lamp, Trunk Latch Command relay, Trunk Light + Inadvertent Lights, Trunk Light Command, Trunk Light, Trunk Opening Relay Command, Trunk Opening Relay, Trunk Release Relay Command, Trunk Release Relay, 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 Light Front - Lateral Left, Turn Light Front - Lateral Right, TURN Light Front Left Command, Turn Light Front Left, TURN

Light Front Right Command, Turn Light Front Right, TURN Light Lateral Left Command, TURN Light Lateral Right Command, Turn Light Rear - Lateral Left, Turn Light Rear - Lateral Right, Turn Rear Backup Left Light, Turn Rear Backup Right Light, Turn Rear Lateral Lights Left, Turn Rear Lateral Lights Right, Turn Rear Light Left -T1 (EMEA), Turn Rear Light Right -T1 (EMEA), Turn Stop Rear Left Light -T1 (NAFTA), Turn Stop Rear Right Light -T1 (NAFTA), UGDO (Universal Garage Door Open) enable command, Universal Garage Door Open, Unlock doors command, Unlock Doors, User Interface Test, Vehicle Speed Cluster, Video Input, VSO Regeneration Command, Welcome Lights Command, Window Heater Led, Window Lifter Switch Enable, Windshield heater, Windshield Heating, Windshield Washer Command, Windshield Washer Relay, Windshield Washer, Windshield Wiper Relay, Windshield wiper, Wiper Status

## New Jaguar Coverage

### 4 new Adjustment type special tests:

Central electronics control unit reset, Central electronics control unit: Reset history of vehicle warnings, Central electronics control unit: System self-test with actuator test, Network: Hard reset

### 12 new Actuation type special tests:

Auto Hi Beam On-Of Stat -Electrochromatic Mir O-P Dark, Auto High Beam On-Off Status - Automatic High Beam Requested, Automatic High Beam On-Off Status -Reverse Inhibit Active, Imag Proc Ctrl Mod A On-Of Stat -Leg Soci Auto Engi (SAE N Amr, Image Processing Control Module A On-Off Status -Fog Detected, Image Processing Control Module A On-Off Status -Speed Inhibit, Image Processing Ctrl Mod A On-Of Stat -Camera Obstruction Det, Image Processing Ctrl Mod A On-Of Stat -Hand Traffic, Image Processing Ctrl Mod A On-Of Stat -High Amb Light Inhbt, Image Processing Ctrl Mod A On-Of Stat -High Temp Inhibit, Image Processing Ctrl Mod A On-Of Stat -Power Sup Inhibit, Image Processing Ctrl Mod A On-Of Stat -Supply V Inhibit

## New Land Rover Coverage

### 6 new Adjustment type special tests:

Activate/Deactivate Transportation Mode, Battery Replacement, Central electronics control unit reset, Central electronics ECU system self-test, Reset VALET mode, Sun Roof Initialization

### 12 new Actuation type special tests:

Auto Hi Beam On-Of Stat -Electrochromatic Mir O-P Dark, Auto High Beam On-Off Status - Automatic High Beam Requested, Automatic High Beam On-Off Status -Reverse Inhibit Active, Imag Proc Ctrl Mod A On-Of Stat -Leg Soci Auto Engi (SAE N Amr, Image Processing Control Module A On-Off Status -Fog Detected, Image Processing Control Module A On-Off Status -Speed Inhibit, Image Processing Ctrl Mod A On-Of Stat -Camera Obstruction Det, Image Processing Ctrl Mod A On-Of Stat -Hand Traffic, Image Processing Ctrl Mod A On-Of Stat -High Amb Light Inhbt, Image Processing Ctrl Mod A On-Of Stat -High Temp Inhibit, Image Processing Ctrl Mod A On-Of Stat -Power Sup Inhibit, Image Processing Ctrl Mod A On-Of Stat -Supply V Inhibit

## New Mercedes-Benz Coverage

### 24 new Adjustment type special tests:

Adapting Of Control Motors, Basic Setting, Customer Request, Enrich In Case Of Poor Fuel Quality, Enriching The Fuel-Air Mixture By 10%, Enriching The Fuel-Air Mixture By 23%, Increase Idle Speed With Range Engaged, Increase Idling Speed, Injector Quantity Adjustment, Normalization of actuator motors, Octane number adjustment 89 RON, Octane number adjustment 91 RON, Octane number adjustment 93 RON, Octane number adjustment 95 RON, Reduce Idling

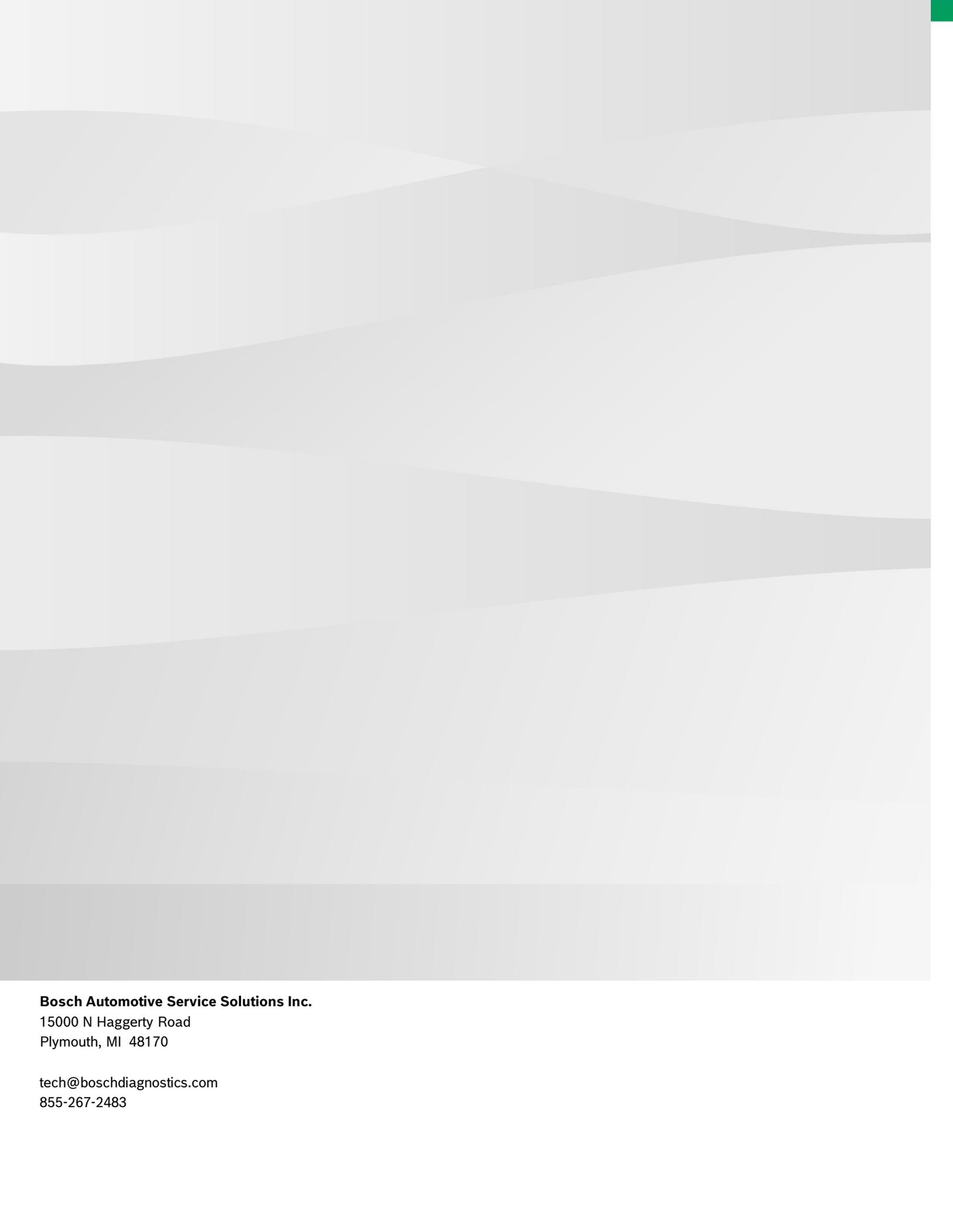
Speed With Range Engaged, Reduce Idling Speed, Refrigerant Compressor Run-In, Reset Adaption To Factory Setting, Reset Idle Speed in Gear, Reset Idling Speed To Factory Setting, Special Settings, Teach-In Of Actuator Motors After Actuator Motor Replacement, Throttle Valve Adaption, Workshop Code

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

Air Distributor Flap Actuator Motor, Air Flap Control Motors, Bend Air Flap Actuator Motor, Blower Motor, BPC Pressure Transducer, Center Vent Flap Positioning Motor, Combustion Engine And A/C With Integrated Control Fan Motor, Defroster Flap Actuator Motor, Display Of Coding Data, Electronic Blower Regulator, Engine Coolant Circulation Pump Test, Engine Oil Pump Valve, Fresh Air/Recirculated Air Flap Actuator Motor, Fuel Pump, Heating System Shutoff Valve, Injectors Leak Test, Left Blend Air Flap Actuator Motor, Left Bypass Air Switchover Valve, Left Purge Switchover Valve, Left Quantity Control Valve, Left Throttle Valve Actuator, Rear Actuator Motor Blend Air Flap With Shutoff Function, Rear Air Distribution Flap Actuator Motor, Rear Window Heater Relay, Refrigerant Compressor Magnetic Clutch, Refrigerant Compressor, Right Blend Air Flap Actuator Motor, Right Bypass Air Switchover Valve, Right Purge Switchover Valve, Right Quantity Control Valve, Right Throttle Valve Actuator, Switch And Controls Illumination, Switch and Controls lamp, Wiper Park Position Heater Relay

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