

# Bosch ADS Software Update – March 2024

## Ver 5.17

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

Version 5.17 update includes more model year **2023 & 2024** vehicle coverage and additional **ADAS** calibrations.

5335 new special tests & 562 new system applications included in this update.

Software and coverage feature details provided in these release notes.



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## Coverage Highlights (More Details start on Page 2)

### 2023 Coverage added – DTC, Data support and Bi-Directional functions

- **Nissan** – Ariya
- **Subaru** – BRZ

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

- **Chevrolet** – Traverse Limited
- **Ford** – Transit-150, Transit-250, Transit-350, Transit-350HD
- **Honda** – Passport, Ridgeline
- **Jeep** – Gladiator
- **Lexus** – LS500h, RC F, RC300, RC350
- **Lincoln** - Aviator
- **RAM** – 1500 Classic

### Multiple Models and Years Coverage added - Bi-Directional functions

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

- **2021 Coverage:**
  - BMW – 228i Gran Coupe (F44)
  - GMC – Savana 4500
- **2022 Coverage:**
  - Audi – S7
  - Lexus – LX600
- **2023 Coverage:**
  - Audi – e-Tron Quattro, e-Tron Sportback, Q3, RS Q8, RS6 Avant, RS7 Sportback, S6
  - Lexus – LX600
- **2024 Coverage:**
  - Acura - RDX
  - Cadillac – Escalade, Escalade ESV
  - Chevrolet – Express 2500, Express 3500, Suburban, Tahoe
  - GMC – Savana 2500, Savana 3500, Yukon
  - Honda – Passport, Ridgeline

*\*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.*

## New Coverage Details – USA Domestic

### New Chrysler/Dodge/Jeep/Ram Coverage

- Added coverage for 71 new system applications

#### 185 new Adjustment type special tests:

ABS Bleed Brakes, ABS Initialization, Active Grill Shutter Replaced, Actuator Calibration, AFLS Calibration, Auto Door Lock, Auto Door Lock Routine, Auto High Beam Demo Mode Test, Automated Bleed, AUTOMATIC DOOR UNLOCK SELECT, Bleed Brakes, Brake Bleed (3 Channel), Brake Bleed Procedure, Brake Pedal Calibration, Brake Pedal Learn, Calibration Routine, CAM Crank Relearn Routine, Change Country Code, Change Language Preferences, Change Measurement Units, 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 Stored Accumulated Fuel Mass, Clear TPM Sensor Rolls Test Results, Clear Variable Line Pressure Counters, Closed Coupled Replacement, Configure License Plate Size, Coolant Three Way Valve, Coolant Three Way Valve Replaced, Diesel Particulate Filter Regeneration, Diesel Particulate Filter Replacement, DPF Pressure Sensor Reset, DPF Regen, DPF Replacement, Driving Regeneration Request, 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, Emissions Rolls Test Mode, Enable / Disable Vehicle Features, Enable/Disable Front Seat Video, Enable/Disable Seatbelt Minder Chime, Engine Idle Shutdown Feature Enable/Disable, EPB Service Procedures, ETC Pedal Learn, Exhaust Phaser 1 Cleaning, Exhaust Phaser 2 Cleaning, Exit in Plant Mode, Exit Shipping Mode, FCM Enable Emissions Rolls Test Mode, Fleet Pin Reset, Front Axle Disconnect Feature, Headlamp Leveling, High Temp Cabin Valve Cal/Test, HVAC Actuator Calibration Test, Idle Shutdown Timer Adjustment, Idle Speed Set Point, Initialize ABS, Initialize Cluster Configuration w/o Odometer Affect, Initialize CVT, Initialize ORC, Initializing ECU, Injector Quantity Adjustment, Intake Phaser 1 Cleaning, Intake Phaser 2 Cleaning, Key FOB Identification, Key Fobs Linked To Memory, KeySense PIN Reset, Learn ETC, Light Rain Sensor Calibration, Light Rain Sensor Re-adaption, Low Temp Coolant Fill - Active Pump, Low Temp Coolant Fill - Passive Pump, Manual DPF Regeneration, Manual Hard Drive Back-up, Manual Logistic Mode Procedure Enable, Mass Air Flow Sensor Initialization, Microphone Output Short Test, Microphone Tone Test, Mobile Desoot - No Minimum Required Soot Load, Most Recent Cool Down Test Results, Multi-Channel Configuration Tone Test, New Engine Installed, Non-Volatile Memory Reset, OCM System Verification Test, Oil Change Light Reset, Oil Change Monitor Type, Oil Life Restore, P2262 Fault Diagnosis Test, Program Engine Serial Number, Program Tire Sensor Identifications, Program Tire Size, Program Variant Coding, PTO RPM Adjustment, PTO Settings, Quick Learn, Quick Learn Routine, Quicklearn 62TE, Quicklearn Non RFE, Quicklearn RFE, RAM Active Air Box Calibration, Remote Start Temporary Disable, Reset Adaptive Values, Reset After Replacement Of Lambda Sensor, Reset Aftertreatment Trip Info Accumulators, Reset Clutch Capacity Adaption, Reset Duty Cycle Accumulators, Reset ECU, Reset Enhanced Automatic Oil Change Indicator, Reset Error Free Operation Time to 40 Hours, Reset Fuel Pressure Limit Valve Accumulators, Reset H2O Lamp, Reset High Voltage Cable Open DTC, Reset Injector Compensation Values, Reset Memory, Reset Memory Adapter - Adaptive Numerator, Reset Memory Adapter - All Adaptive Memory, Reset Memory Adapter - Engine Runtime, Reset Memory Adapter - Fuel Adaptives, Reset Memory Adapter - Fuel ShutOff Reason, Reset Memory Adapter - Minimum TPS, Reset Nox Absorber Counts Accumulators, Reset of Lambda Values, Reset of SCR Long Term Adaptation Factor, Reset Parameters to Default, Reset Regen Filter Timers, Reset SCR Mileage Counter to 200 Miles, Reset Trip Information Accumulators, Reset VCM Adaptives, Reset Zero Fuel Quantity Calibration,

Resolver Offset Learn, Restore Customer Programmable Features, 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, Seatbelt Alert System, Sensor Wiring Test, Service DPF Regeneration Routine, Service Procedures, Set Axle Type, Set Max Cruise Speed, Set Max Vehicle Speed, Set Pinion Factor, Set Ride Height Level, Snorkel Output Test, Standardization, Stationary Desoot (DPF Regen), Store Learned TCU Adaptives, System Air Mass/Pressure/Ride Height Readings, TCC Break In, TCM Reset Learned Adaptives Routine, Tip Start Temporary Disable, Tire Pressure Sensor Registration, TLC Learn, Tri Zone Actuator Calibration, Turbo Actuator Pre-Align / Self Calibrate, Turn off Gain Mode Override, Update Pressure Thresholds, Valve Body Solenoid Learn, VG Turbo Charger Cleaning Procedure, VG Turbo Cleaning Effective Validation, VGT Actuator PreAlign And Calibration, VGT Learn, VGT Sector Gear Hysteresis Test, View/Reset DOC After Treatment Over Temp Events, View/Reset DPF After Treatment Over Temp Events, View/Reset Duty Cycle Maps, View/Reset NAC After Treatment Over Temp Events, VIN Lock, Write Pinion Factor, Write VIN

### **1648 new Actuation type special tests:**

1st Gear Brake Torque, 1st Gear Clutch Slip Test, 1st Gear Clutch Test (62TE), 1st Gear Clutch Test (Non-RFE), 1st Gear Clutch Test (RFE), 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 Brake Torque, 2nd Gear Clutch Slip Test, 2nd Gear Clutch Test (62TE), 2nd Gear Clutch Test (Non-RFE), 2nd Gear Clutch Test (RFE), 2nd Prime Brake Torque, 2nd Prime Gear Clutch Slip Test, 2nd Prime Gear Clutch Test (RFE), 3rd Gear Brake Torque, 3rd Gear Clutch Slip Test, 3rd Gear Clutch Test (62TE), 3rd Gear Clutch Test (Non-RFE), 3rd Gear Clutch Test (RFE), 4 Low Indicator, 4C Solenoid, 4C Solenoid State, 4th Gear Clutch Test (62TE), 4th Gear Clutch Test (Non-RFE), 4th Gear Clutch Test (RFE), 4WD, 4WD Auto, 4WD AUTO Indicator, 4WD Indicator, 4WD LED, 4WD Lock Indicator, 4WD Low, 4WD Neutral Indicator, A/C, A/C Clutch Relay Control State, A/C Compressor Clutch Relay Control State, A/C Fixed Disp Compressor, A/C Indicator, A/C Select, A/C Variable Disp Compressor, ABS, ABS fault Lamp, ABS Lamp, ABS Light, A-C Button, AC Clutch Relay - Control State, A-C Compressor Clutch Relay Control State, AC Discrete, AC emergency shut off, AC Indicator, A-C INDICATOR, AC Off For Vehicle Manoeuvring, AC Request, A-C Request, A-C Select, Activate Driver and Passenger Head Restraints, Activate Fuel Lift Pump, Activate TPM High Gain Mode, Active Booster Solenoid, Active Exhaust Valve 1, Active Exhaust Valve 2, Active Grill Shutter Test, Actuate All Heaters, Actuate All Seat Heaters, Actuate All Vents, Actuates Brake Trans Shift Interlock Sol, Actuator Position, Actuator Test For SCR Device Relay, Actuator Test For Scrdevrly, Actuator Test Of Urea Back Flow Pump Actuator, Adjustable Pedal Disable Relay, Adjustable Pedal State, Aftertreatment System Performance Test, Air Bag, Air Bag Lamp, Air Bag Light, Air Condition, Air Condition Relay Control, Air Conditioner Shut Off (Clutch), Air Dam Test, Air Suspension Leakdown Test, All Doors Locks, All Doors/Central Locks, All Doors-Central Locks, All Indicators, Alternator Current Limit, Alternator Field Control, Alternator Field Control State, Alternator Field Duty Cycle, Alternator Field Duty-Cycle, Alternator Field Test Routine, Alternator Full Field Test, Alternator Output Voltage Setpoint, Alternator Test, Alternator Voltage Control Lamp, Alternator Voltage Set Point Value, Ambient Temperature, AMP Output Short Test, ANC Output Short Test, Antenna Loop Test, Antenna Power, Antenna Power State, Anti-Theft Enable Status, APM Status, Approach Light State, ASD Relay Control State (Left Bank), ASD Relay Control State (Right Bank), 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 Routing, Audio Test, Audio Test For Subwoofer Specific, Audio Video Signal Detection, AUTO Button, Auto Door Unlock Routine, 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, Auto Shutdown Relay Control State, Autostick Test, Auxiliary Coolant Pump, Auxiliary Fuel Pump, Average Ambient Temperature, BACK button, Background LED Illumination Level, Background LED State, Backlight 1 Level, Backlight 2 Level, Backlight 3 Level, Backlight 4 Level, Backlight 5 Level, Backlight 6 Level, Backlight 7 Level, Backlight 8 Level, Backlight Control, Backlight Control-Backlight PWM1, Backlight Control-Backlight PWM2, Backlight Control-Backlight PWM3, Backlight Control-Backlight PWM4, Backlight Control-Backlight PWM5, Backlight Control-Backlight PWM6, Backlight Control-Blue Driver/Passenger Temp Down, Backlight Control-Display PWM, Backlight Control-HVAC Recirc/AC/Front Def/Rear Def, Backlight Control-LED Jewel Indicator auto, Backlight Control-LED Jewel Indicators excluding Auto, Backlight Control-Red Driver/Passenger Temp Up, Hazard, Backlight Control-Sapphire Blue Enter/Mute Knobs, Backlight Control-Sapphire Blue HVAC Auto/Fan Off, Backlight Control-Sapphire Blue Knob Halo Rings, Backlight Control-Sapphire Blue Lower Row Switchbank Buttons, Backlight Control-Sapphire Blue Screen Off, Back Buttons, Backlighting Test, Backlighting: Driver Temp Down, Pass Temp Down, Backlighting: Driver Temp Up, Pass Temp Upj., Backlighting: Knob Halo White Backlighting, Backup Alarm, Baggage Lamps, Balance Settings, Baro Read Solenoid Control State, 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, Bed Lamp, Bilevel Indicator, Blind Spot Indicator State, Blower Motor, Blower Motor Speed, Blue Cooled Seat Indicators, Blue Heated Seat Indicators, Blue Temperature Bar, Boost Low Pressure Actuator, Boost Pressure, Boost Pressure Actuator, Boost Pressure Solenoid, Both Headlamps Max High Position, Both Headlamps Max Low Position, Brake Indicator, Brake Light, Brake State Output, Brake Switch, BRAKE Text, Brake Warning Lamp, BSM State, BTSI Coil Output Control, BTSI Control, BTSI Solenoid, Bussed SRS Indicator Lamp Request, Button 11 (Spare), Button 14 (Spare), Button 15 (Spare), Button 16 (Spare), Button 24 (Spare), Button 6 (Spare), Button 7 (Spare), Button 8 (Spare), Button Indicators, Buttons/Encoder Control-Button 1 (Front Defrost), Buttons/Encoder Control-Button 10 (FCW), Buttons/Encoder Control-Button 12 (Back), Buttons/Encoder Control-Button 13 (Screen Off), Buttons/Encoder Control-Button 14 (ESP), Buttons/Encoder Control-Button 16 (PTS), Buttons/Encoder Control-Button 17 (Mute), Buttons/Encoder Control-Button 18 (Enter), Buttons/Encoder Control-Button 19 (Rear Defrost), Buttons/Encoder Control-Button 2 (Driver Temp Up), Buttons/Encoder Control-Button 20 (Passenger Temp Down), Buttons/Encoder Control-Button 21 (Auto), Buttons/Encoder Control-Button 22 (Driver Temp Down), Buttons/Encoder Control-Button 23 (Recirc), Buttons/Encoder Control-Button 3 (Fan Off), Buttons/Encoder Control-Button 4 (Driver Temp Up), Buttons/Encoder Control-Button 5 (AC), Buttons/Encoder Control-Button 9 (Eco), Buttons/Encoder Control-Rotary 1 Detents (Volume), Buttons/Encoder Control-Rotary 1 Direction (Volume), Buttons/Encoder Control-Rotary 2 Detents (Fan), Buttons/Encoder Control-Rotary 2 Direction (Fan), Buttons/Encoder Control-Rotary 3 Detents (Tune), Buttons/Encoder Control-Rotary 3 Direction (Tune), Buttons/Encoder Control-Rotary 4 Detents, Buttons/Encoder Control-Rotary 4 Direction, Buzzer Control, Buzzer Output, Cabin Temperature Sensor, Cargo Lamp, Cargo Light, Cargo Light Indicator, Catalyst Efficiency Test, CEGR H-Bridge Valve Duty Cycle, Center High Mount Stop Lamp, Center Stop Lamp, Central high mounted Stop Light (CHMSL), Channel 1 Audio Control, Channel 10 Audio Control, Channel 11 Audio Control, Channel 12 Audio Control, Channel 2 Audio Control, Channel 3 Audio Control, Channel 4 Audio Control, Channel 5 Audio Control, Channel 6 Audio Control, Channel 7 Audio Control, Channel 8 Audio Control, Channel 9 Audio Control,

Charge Air Cooler Coolant Pump, Charge Port Command CAN, Charge Port Command Hard Wired, Charge Port Lock Motor, Charge Port Request Tester, Charge Port Un-Lock Motor, Check Engine - MIL Lamp, Check Engine MIL Lamp, Check Engine-MIL (Malfunction Indicator Lamp), Check PCM Odometer, Chiller Shut-off Valve, Chime, CHMSL Lamp, 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, Compressed Natural Gas, Compression Test, Compressor Circuit Test, Compressor Current, Control All Solenoids, Control the steering column, Convenience Lamps Load Shed, Convenience/Reading Lamp, Convenience-Reading Lamp, Convertible Top, Cool Down Test Routine, 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 Fade Position, Courtesy Lamps, CP3 Metering Pump, Crankcase Ventilation, Crankcase Ventilation Heater, Cyl 1 Deactivation Sol Cntrl State, Cyl 4 Deactivation Sol Cntrl State, Cyl 6 Deactivation Sol Cntrl State, Cyl 7 Deactivation Sol Cntrl State, Cylinder 1 Deactivation Solenoid Control State, Cylinder 4 Deactivation Solenoid, Cylinder 4 Deactivation Solenoid Control State, Cylinder 6 Deactivation Solenoid Control State, Cylinder 7 Deactivation Solenoid Control State, Cylinder Balance Test, Cylinder Performance, DC Clutch Volume Index Check, Dedicated DRL Lamp Left, Dedicated DRL Lamp Right, DEF (Reductant) Pressure Line Heater Test, DEF (Reductant) Return Line Heater Test, DEF (Reductant) Suction Line Heater Test, DEF (Reductant) Tank Heater Relay Test, DEF (Reductant) Tank Heater Test, DEF Dosing Injection Quantity, DEF Reductant Doser Prime Override Test, DEF Reductant Doser Pump Override Test, Defrost - Floor Actuator Position, Defrost Indicator, Diesel Cabin Heat 1, Diesel Cabin Heat 1 State, Diesel Cabin Heat 2, Diesel Cabin Heat 2 State, Diesel Cabin Heat 3, Diesel Cabin Heater #1, Diesel Cabin Heater #2, Diesel Cabin Heater #3, Diesel Cabin Heater 1, Diesel Cabin Heater 2, Diesel Cabin Heater 3, Diesel Cabin Heater 4, Diesel Fuel Heater Relay, Digital Inputs1 High Memory, Direct Gear Clutch Slip Test, Disable Level Control, Disable Passenger Airbag Lamp Request, Display Start Inhibit Data, Dome lamp output test, Door Ajar, Door Ambient Light State, Door Courtesy Lamp State, Door Handle Power Control, Door Handle Verification Test, Door Lock All, Double Start Override Relay, Downstream O2 Response Monitor, DPF Lamp, DPF Reset Option, DR Solenoid, Driver Cooled Seat, Driver Door Unlock, Driver Heated Seat, Driver Side Seat Belt, Driver Temp Detents, Driver Temp Down Button, Driver Temp Rotary Direction, Driver Temp Up Button, DRL, 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, Duty Cycle Purge Solenoid, EAC Compressor Speed Request, Easy Entry/Exit, EBL Indicator, 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, ECO, ECO Button, ECO Indicator, ECO ON-OFF Indicator, ECVD Compressor PWM Command, ECVD Compressor PWM Command~ECVD Compressor PWM Command, EGR Cooler Bypass, EGR DC Motor Sol Vlv Recir Vlv, EGR Duty Cycle, EGR Hi Pressure Motor Test, EGR Positioner, EGR Self Test Routine, EGR Throttle Valve, EGR Throttle Valve (Service), EGR Valve Actuator Test, EGR Valve Replaced, EGR Valve Solenoid Duty Cycle, EL Illumination, ELCM Forced Monitor Test, Electric Fuel Pump, Electric Motor Control, Electric Thermostat Heater,

Electric Thermostat Heater Solenoid, Electric Thermostat Heater Solenoid Duty Cycle, Electric Transmission Oil Pump, Electric Vacuum Pump, Electric Wastegate Valve, Electronic Stability Control, Electronic Stability Control Off, EMCC VLP Solenoid, Emergency Call Backlight LED PWM, Emergency Call Green LED PWM, Emergency Call Red LED PWM, Emissions Rolls Test Mode Is Active, Enable Hands Free Module, Engine After Run Coolant Pump, Engine Check Lamp [MIL], Engine Digital Fan 1, Engine Digital Fan 2, Engine Off Injector Toggle Test, Engine RPM Control, Engine Running Injector Kill Test, Engine Speed Output, Engine Temp LEDs, Engine Temperature, Engine Warm Up, Enter, Enter Button, Enter Plant Mode, EPB Failure Lamp, EPB Service, EPB Warning Light, EQ Loudness Test, ESC, ESC Disable Lamp, ESC Indicator, ESC Malfunction Lamp, ESC Off, ESC ON-OFF Indicator, 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 - Duty Cycle, EVAP Purge Valve, Evap Sensor Temperature, Evaporate Purge Control Solenoid Valve, Evaporator Sensor Temperature, Evaporator Temp Sensor, Evaporator Temperature Sensor, Exhaust Brake, Exhaust Brake Auto Green, Exhaust Brake Switch Lamp, Exhaust Brake Yellow, Exhaust Gas Cooler Bypass Valve, Exhaust Gas Recirc Positioner, Exhaust Gas Recirculation Actuator, Exhaust Gas Recirculation Valve, Exhaust VVT, Extend Mileage With SCR Active Faults, Extended After Run, Exterior Lighting SW, Faceplate Controls, Faceplate Controls- U CONNECT, Faceplate Controls-AM FM, Faceplate Controls-AUDIO Push Button or AUDIO, Faceplate Controls-AUX, Faceplate Controls-BACK, Faceplate Controls-DISC, Faceplate Controls-Eject, Faceplate Controls-EJECT or OPEN/CLOSE, Faceplate Controls-FF or TUNE UP, Faceplate Controls-INFO, Faceplate Controls-LIST, Faceplate Controls-LOAD, Faceplate Controls-MEDIA, Faceplate Controls-Menu, Faceplate Controls-MUSIC TYPE, Faceplate Controls-NAV, Faceplate Controls-POWER ON Push Button, Faceplate Controls-PRESET 1, Faceplate Controls-PRESET 2, Faceplate Controls-PRESET 3, Faceplate Controls-PRESET 4, Faceplate Controls-PRESET 5, Faceplate Controls-PRESET 6, Faceplate Controls-RADIO or RADIO/MEDIA, Faceplate Controls-REPEAT PROMPT, Faceplate Controls-RW or TUNE DOWN, Faceplate Controls-SAT, Faceplate Controls-SCAN, Faceplate Controls-SET, Faceplate Controls-SET UP, Faceplate Controls-TIME, Faceplate Controls-VR BUTTON, FAD Feedback Voltage, FAD Lock Request, FAD Supply Voltage, Fade Settings, Fan Clutch PWM Duty Cycle Output, Fan Clutch Test, Fan Off Button, Fan Rotary Detents, FCW Button, 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, Flipper Glass, Flipper Glass 2, Floor Defrost Mode Actuator Degrees, Floor Defrost Mode Actuator Position, Floor Indicator, Foot Well, Foot Well/Halo Lamps, Foot Well-Halo Lamps, Frequency Step Selection, Front Blend Actuator Position, Front Blower Control, Front Blower Motor, Front Blower Speed, Front Blower State, Front Collision Off, Front Collision Off, Front Defrost, FRONT DEFROST button, Front Defrost Indicator, Front Fog, Front Fog Lamps, Front Mode (Defrost Door) Actuation, 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 Parktronic, Front Refrigerant Shut-off Valve, Front Washer, Front Wiper (High/Low), Front Wiper (High-Low), Front Wiper (On/Off), Front Wiper (On-Off), Front/Rear Washer, Front-Rear Washer, FS/LR Solenoid, Fuel Filter Heater, Fuel Filter Heating, Fuel filter water level warn lamp, Fuel Filter Water Level Warning Lamp, Fuel Gauge, Fuel Gauge Gaugepoint, 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 Output, Fuel Metering Unit, Fuel Metering Unit Actuator, Fuel Pre Supply Pump, Fuel Pressure Override, Fuel Pressure Override Test, Fuel Pressure Regulated O/P (Bar), Fuel Pressure Regulator, Fuel

Pressure Regulator Valve, Fuel Pressure Solenoid, Fuel Pump, Fuel Pump Relay, Fuel Pump Relay Control State, Fuel Quantity Solenoid, Fuel System Run Up Test, Functional LED Illumination Level, Functional LED State, Gas Injector Relay, Gasoline Indicator, Gated Park ZFII Output, Gated Park ZFII Output Control, Gear Position, Gear Selection, Generator Full Field Mode, Generator Full Field Test, Generator Ramp Time, Generator Speed Threshold, Glass Washer Front, Glass Washer Rear, Glow Indicator Lamp, Glow Lamp, Glow Plug, Glow Plug Relay Actuator, Glow Relay, Governor 3-4 Shift Valve, Grid Test, Hatch/Decklid Release, Head Rest Relay, Headlamp Leveling Switch, Headlamp Washer, Heated Seat Driver High Indicator, Heated Seat Driver Low Indicator, Heated Seat Driver Med Indicator, Heated Seat Passenger High Indicator, Heated Seat Passenger Low Indicator, Heated Seat Passenger Med Indicator, Heated Steering Wheel, Heated Steering Wheel indicator, Heated Steering Wheel~Heated Steering Wheel, 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, HFM VR Phone Switch, Hi Speed Fan State, HID Headlamps State, HID Output, High Beam, High Beam Indicator, High Beam Light, High Pressure Fuel Rail Test, High Pressure Fuel System Test, High Pressure Set Point, High Speed Engine Cooling Fan Control, High Speed Fan, High Speed Rad Fan State, 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 Descent Control Telltale, Horizontal Motor Backward/Forward, Horn, HPCR Duty Cycle, HPCR Duty Cycle Output, HVAC Cool Down Test, HVAC Self Test, Hydraulic Fan, I/O Control All-Limp Home Mode active, I/O Control All-Red Lamp, I/P Illumination, IAC Valve Solenoid Control State, ICR-HCR Relay, Idle RPM Test, Idle Speed Setpoint, 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 State, Ignition RUN/ACC 1, Ignition RUN/ACC 2, Ignition Run/Acc/PAD State, Ignition Run/Acc/SPAD State, Ignition RUN/START, Ignition RUN-ACC 1, Ignition RUN-ACC 2, Ignition RUN-START, Ignition Unlock/Run/Start State, Immobilizer Antenna Test, In Motion Menu, 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 Dimming, Initiate P2BA9 SCR Refill Monitor, Injector 1, Injector 2, Injector 3, Injector 4, Injector 5, Injector 6, Injector 7, Injector 8, Injector Kill (#1), Injector Kill (#10), Injector Kill (#2), Injector Kill (#3), Injector Kill (#4), Injector Kill (#5), Injector Kill (#6), Injector Kill (#7), Injector Kill (#8), Injector Kill (#9), Injector Kill (All Cylinders), 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 Illumination, Instrument Panel Illumination Level Output, 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 Tuner, 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, Intake VVT, Inverter Enable Relay, Inverter Status Indicator, IOD RELAY ON LSD, I-P Illumination, IPC Self Test, IR Sensor Temperature, IRCM Heater, IRCM Relay Unlock Control, ITOS – Cabin Temperature, Key Pad Back Lighting, Key Removal Inhibit

LOCK Control, Key Removal Inhibit UNLOCK Control, Keypad Backlight Control, KeySense, KIN ACC LED State, KIN Antenna Power, KIN LED Control, KIN OFF LED State, KIN RUN LED State, KIN Start/Stop LED State, KIN Start-Stop LED State, Knob Lock State, L/U And SEL On Off Solenoid, L/U Solenoid Current, Lamps Actuation-Left leveling actuator position, Lamps Actuation-Right leveling actuator position, Lane Departure Warning ON-OFF Indicator, LC Clutch Volume Index Check, LC Solenoid, LCD Display, LDP Pump Test, LDP Solenoid, LDW Warning Indicator, Leak Detection Pump, Leak Detection Pump Forced Monitor Test, LED A/C, 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 Headlamp Leveling, LED LF Heated Seat, LED Rear Defrost, LED RF Heated Seat, LED Test - Damping Mode Automatic Active, LED Test - Damping Mode Hard / Sport Active, LED Test - Damping Mode Soft Active, Left Rear Tail/Park Lamp, Left Air Catcher LED, Left Auxiliary High Beam, Left Backrest Heat Seat Linear PWM Request -Output, Left Blend Actuator Degrees, Left Blend Actuator Position, Left Cushion Heat Seat Linear PWM Request -Output, Left Day Light Lamp, Left Floor Duct Sensor, Left Front Fog Lamps, Left Front Inlet Valve, Left Front Inlet Valve Solenoid, Left Front Outlet Valve, Left Front Outlet Valve Solenoid, Left Front Park Lamp, Left Front Turn Lamp, Left Front Turn Lamp Output Status, Left Heated Seat, Left Heated Seat Lower Indicator, Left Heated Seat Upper Indicator, Left HID Lamp, Left High Beam, Left High Beam Shutter, Left High Beam State, Left Low Beam, Left Low Beam State, Left Panel Duct Sensor, Left Rear AUX Turn Lamp, Left Rear Fog Lamps, Left Rear Heated Seat Status, Left Rear Inlet Valve Solenoid, Left Rear Outlet Valve Solenoid, Left Rear Tail-Park Lamp, Left Rear Turn Lamp, Left Rear Turn Lamp (BUX), Left Rear Turn Signal Lamp Status, Left Rear Turn/Stop Lamp, Left Rear Turn-Stop Lamp, Left Reartail-Park Lamp, Left Reverse Lamp, Left Reverse Lamp 2, Left Reverse Lamp State, Left Side Markers, Left Signal Mirrors/Side Repeaters (BUX), Left Signal Mirrors-Side Repeaters (BUX), Left Signature Lamp, Left Solar Sensor Values, Left Trailer Tow Turn/Stop Lamp, Left Trailer Tow Turn-Stop Lamp, Left TT Turn Stop Lamp State, Left Turn Signal Indicator, Left Vent Seat Linear PWM Request -Output, Left Ventilated Seat Lower Indicator, Left Ventilated Seat Upper Indicator, LF Antenna Verification Test, LF Heated Seat, LF Heated Seat High, LF Heated Seat Low, LF Heated Seat Status, LF Power Window, License Plate Lamp, License Plate Lamp WK -Right Rear Rail Lamp WD, Lift Pump Relay, Liftgate Release Motor, Lin Module Data, Line Pressure Test, Linear Hall, Linear Solenoid A, Linear Solenoid B, Linear Solenoid C, Linear Solenoid D, Linear Solenoid E, Linear Solenoid F, Linear Solenoid G, Locate Learned Keys, LOCK 4WD, Low Fuel, LOW LED, Low Pressure Feed Valve 1, Low Pressure Feed Valve 2, Low Pressure Feed Vlv 1(Normal close), Low Pressure Feed Vlv 2(Normal close), Low Reverse Solenoid, Low Reverse Solenoid Mode Control, Low Speed Fan State, Low Speed Rad Fan State, Low Temp Active Pump, Low Temp Passive Pump, Low Temp Passive Pump 1, Low Temp Passive Pump 2, Low-Reverse Solenoid, LR Clutch Volume Index Check, LR Heated Seat High, LR Heated Seat Low, LR Power Window, LR Solenoid, LSU Heater 1, Main Left Temperature 2 Actuator Position, Main Left Temperature Actuator Position, Main/Left Temp Selected, Main-Left Temp. Door Actuator Position, Main-Left Temperature Actuator Position, Malfunction Indicator Lamp, Manifold Short Runner Valve Solenoid, Manifold Tuning Valve Solenoid, Map/Glove Box/Vanity Lamps, Master Ept Wake Up Output, Master ePT Wake Up Output 1, Mechanical Controls, Memory Seat ECU Self Test, Metering Unit, Metering Unit Actuator, Mid-Range Settings, MIL Diagnostic Lamp, MIL Lamp, Minimum Airflow, Mirror Direction Control, Mirror Fold, Mirror Fold Window Control, Mirror Heat State, Mirror LED -Day-Night, Mirror LED Left State, Mirror LED -ON-OFF, Mirror LED Right State, Mirror Right LED State, Mirror Signal Lamp State, Mirror Vertical/Horizontal Direction, Mix Indicator, Mode, Mode 1, Mode 2, Mode 2 Actuator Position (Defrost Panel Door), Mode Selection, Motor A Control, Motor B Control, Motorized Thermistor-Cabin Temp, MS Solenoid, Multiair VVA Solenoid 1, Multiair VVA Solenoid 2, Multiair VVA Solenoid 3, Multiair VVA Solenoid 4, Mute, MUTE button, Mute Test, Navigation Display Control, Navigation Menu Control, Neutral, Neutral Gate Test (62TE), Neutral Gate Test (Non



RFE), Neutral Gate Test (RFE), Neutral LED, NOx Sensor Replacement, O2 Heater Test, O2 Sensor Heater 1-1, O2 Sensor Heater 1-1 Duty Cycle, O2 Sensor Heater 1-2, O2 Sensor Heater 1-2 Duty Cycle, O2 Sensor Heater Bank 1 Sensor 1, 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, Odometer VFD, Oil Pressure Bad, Oil Pressure Good, Oil Pressure Indicator Test, Oil Pressure Lamp, Oil Pressure LED 1, Oil Pressure LED 2, Oil Pressure LED 3, Oil Pressure LED 4, Oil Pressure LED 5, Oil Pressure LED 6, Oil Pressure LED 7, Oil Pressure LED 8, Oil Pressure LED 9, Oil Pressure LEDs, Oil Pressure Output, Outlet Valve FL, Outlet valve FR, Outlet valve front left activation, Outlet valve front right activation, Outlet Valve Left Front, Outlet Valve Left Rear, Outlet Valve LF (Normally Closed), Outlet Valve LR (Normally Closed), Outlet valve rear left activation, Outlet valve rear right activation, Outlet Valve RF (Normally Closed), Outlet Valve Right Front, Outlet Valve Right Rear, Outlet valve RL, Outlet valve RR, Outlet Valve RR (Normally Closed), Output Channel Test, 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, Oxygen Sensor 1-1 Heater Duty Cycle, Oxygen Sensor 1-1 Heater Duty-Cycle, Oxygen Sensor 1-2 Heater, Oxygen Sensor 1-2 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, Oxygen Sensor 2-1 Heater Duty Cycle, Oxygen Sensor 2-1 Heater Duty-Cycle, Oxygen Sensor 2-2 Heater, Oxygen Sensor 2-2 Heater Duty Cycle, Oxygen Sensor 2-2 Heater Duty-Cycle, Oxygen System Heater Test, Panel Door Actuator Position, Panel Mode Actuator Degrees, Panel Mode Actuator Position, Park Lamp State, Park Pawl Actuator Control, Parking Brake And Low Brake Fluid, Parttime LED, Passenger Airbag (PAB) Status, Passenger Airbag Disable Indicator Lamp Request, Passenger Airbag Disable Lamp, Passenger Airbag LED, Passenger Cooled Seat, Passenger Door Unlock, Passenger Heated Seat, Passenger Occupant Detection Sensor (ODS), Passenger Seat Belt, Passenger Temp Detents, Passenger Temp Down Button, Passenger Temp Rotary Direction, Passenger Temp Up Button, Pedal Follower Mode, Pedals Forward/Backward, Pilot 1 (USV Front, MCI Front -Normally Open), Pilot 1 (USV LF-RR, MCI LF-RR -Normally Open), Pilot 2 (USV Rear, MCI Rear -Normally Open), Pilot 2 (USV RF-LR, MCI RF-LR -Normally Open), PL Solenoid Current, Pneumatic Intercooler Bypass, Pneumatic Waste Gate, Police Passenger Un-Lock Motor, Position Lamp, Position Lamp Telltale, Position Lights, Power (OFF), Power Down, Power Inverter Output, Power Mirror Feed Relay Control, Power On and Disable User Inputs, Power Side Step Module Actuation Test, PPPA, PPPA ON-OFF Indicator, Pressure Control Solenoid Valve, Pressure Regulator Valve, Pressure Value Correction Shut-Off, Pressure Wave Correction Deactivation, 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), PRNDL, 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 Heater Relay 1, PTC Heater Relay 2, PTC Heater Relay 3, PTO, PTS Button, PTS ON-OFF Indicator, PTS Switch Simulation, Puddle Lamp State, Pump, Pump Control, Pump Motor Relay, Pump Motor Test, Purge Solenoid Duty Cycle, Purge Vapors Test, PWM Fan Actuation Test, PWM 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 Cooling Fan Rly 1 Cntrl State, Radiator Fan 1, Radiator Fan 1 Duty Cycle, Radiator Fan 2, Radiator Fan 2 Duty Cycle, Radiator Fan 2 Relay, Radiator Fan Duty Cycle, Radiator Fan PWM Duty Cycle, Radiator Jalousie ShutterPosition, Radiator-Condenser Cooling Fan Relay 1 Control State, Radiator-Condenser Cooling Fan Relay 2 Control State, Radio, Radio Tone Test, Radio Volume, Rail Pressure, Rail Pressure Actuator, Rail Pressure Control Test, Rail Pressure Sensor Replacement, Ram Active Air Box Test, Ram Box, Range Select Downshift Test Routine, Range Select Downshift Voltage, Range Select Upshift Test Routine, Range Select Upshift Voltage, Read VIN, Ready, Rear Axle Lock, Rear Axle Locker Command, Rear Blend Actuator Position, Rear Blower Motor, Rear Blower Speed, Rear Blower State, Rear Defrost Button, Rear Defrost Indicator, Rear Defrost State, Rear Fog, Rear Fog Lamp Telltale, Rear Fog Lamps, Rear Heated Window, Rear Inlet Valve, Rear I-Wipe State, Rear Lockout Indicator (Rear Panel), Rear Mode 1 Actuator Position, Rear Mode Actuator Position, Rear Outlet Valve, Rear Park Assist Disable, Rear Selection Indicator, Rear Temp Door Actuation Position, Rear Temp Door Actuator Position, Rear Wiper, Recirc, RECIRC button, RECIRC Indicator, Recirc. Door Actuator Position, Recirculation Door Actuator Degrees, Recirculation Door Actuator Position, Recirculation LED, Recirculation Pump, Recirculation pump activation, Recliner, Red Brake Lamp, Red Hazard Button, Red Heated Seat and Steering Wheel Indicators, RED Heated Seat Indicators, Red Temperature Bar, Redundant Ignition RUN/START Feed Output Control, Redundant Ignition RUN-START Feed Output Control, Remote Start Antenna Test, Reverse Brake Torque, Reverse Gear Clutch Slip Test, Reverse Gear Clutch Test (62TE), Reverse Gear Clutch Test (Non-RFE), Reverse Gear Clutch Test (RFE), Reverse Lamp, Reverse Lockout Solenoid, Reverse Lockout Solenoid Control State, RF Heated Seat High, RF Heated Seat Low, RF Heated Seat Status, RF Power Window, Right Air Catcher LED, Right Auxiliary High Beam, Right Backrest Heat Seat Linear PWM Request -Output, Right Blend Actuator Degrees, Right Blend Actuator Position, Right Cushion Heat Seat Linear PWM Request -Output, Right Day Light Lamp, Right Floor Duct Sensor, Right Front Fog Lamps, Right Front Inlet Valve, Right Front Inlet Valve Solenoid, Right Front Outlet Valve, Right Front Outlet Valve Solenoid, Right Front Park Lamp, Right Front Turn Lamp, Right Front Turn Lamp State, Right Heated Seat, Right Heated Seat Lower Indicator, Right Heated Seat Upper Indicator, Right HID Lamp, Right High Beam, Right High Beam Shutter, Right Low Beam, Right Low Beam State, Right Panel Duct Sensor, Right Rear Fog Lamps, Right Rear Heated Seat Status, Right Rear Inlet Valve Solenoid, Right Rear Outlet Valve Solenoid, Right Rear Park Lamp, Right Rear Tail/Park Lamp, Right Rear Tail-Park Lamp, Right Rear Turn Lamp, Right Rear Turn Lamp (BUX), Right Rear Turn Lamp State, Right Rear Turn/Stop Lamp, Right Rear Turn-Stop Lamp, Right Reartail-Park Lamp, Right Reverse Lamp, Right Reverse Lamp #2, Right Reverse Lamp 2, Right Reverse Lamp State, Right Side Markers, Right Signal Mirrors/Side Repeaters (BUX), Right Signal Mirrors-Side Repeaters (BUX), Right Signature Lamp, Right Solar Sensor Values, Right Temp Actuator Position, Right Temp. Door Actuator Position, Right Temperature Actuator Position, Right Temperature Selected, Right Trailer Tow Turn/Stop Lamp, Right Trailer Tow Turn-Stop Lamp, Right TT Turn Stop Lamp State, Right Turn Signal Indicator, Right Vent Seat Linear PWM Request, Right Vent Seat Linear PWM Request -Output, Right Ventilated Seat Lower Indicator, Right Ventilated Seat Upper Indicator, Roller Learning Shut-Off, Rotary 4 Detents, Rotary 4 Direction, RR Heated Seat High, RR Heated Seat Low, RR Power Window, RT-LT Sidemarkers-RT-LT Applique Parklamps, Run Remote Start State, Run/Start Remote Start State, S/C Indicator, SCR Inlet Temp Sensor Replacement, SCR Relay Actuation Test, Screen Off, SCREEN OFF button, SDAR Station Selection, Seat Belt, Seat Belt Lamp, Seat Belt Light, Seat Position Recall, Second Row Center Seatbelt Switch, Second Row Left Seatbelt Switch, Second Row Right Seatbelt Switch, Secondary Air Pump, Secondary Air Solenoid, Secondary Locks, Secondary Solenoid Current, Secondary/Thatchum Lock Motor, Secondary/Thatchum Un-Lock Motor, ~~Secondary Thatchum Lock Motor, Secondary Thatchum Un-Lock Motor~~, Seek Status, Select Level

Switches-Damping Mode Button, Self Test Routine, Sensor Rolls Test, SERV LED, Service 4WD, Service Lamp, Set Engine RPM Test, Set Oil Dilution Mass Value, Set Purge Solenoid Duty Cycle, Set Purge Valve Position, Set Throttle Blade in Variable Position, Set Throttle Blade Position, Shift Lever Position Test, Shift Lever Position Test (62TE), Shift Lever Position Test (Non-RFE), Shift Lever Position Test (RFE), Shift Solenoid 1, Shift Solenoid 2, Shift Solenoid 3, Shift Solenoid 4, Shift Solenoid 5, Shift Solenoid 6, Shift Solenoid A, Shutoff Correction Quantity, Shutoff Injector Quantity, Side Mirrors Heater Control, 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 Channel Isolation Test, Speaker Quadrant Selection, Speed Control Servo Power Relay, Speed Control Vacuum Solenoid, Speed Control Vent Solenoid, Speedometer, Split Cooling Drive Duty Cycle, Sport ON-OFF Indicator, Spring Deflate To Atmosphere, Spring Deflate to Reservoir, SRS Indicator Lamp Request, SRS Lamp, SRV Test, Start - Remote Start State, Start/Stop System, Starter Relay, Starter Solenoid, Starter Solenoid (High), Starter Solenoid High, Starter Status, Steering Wheel Linear PWM Request -Output, Stop - Start System Active Indicator, Stop / Start System Active Lamp, Stop Start Confirmation, Stop/Start System Active, Stop-Start ON-OFF Indicator, Stop-Start System Active, Sun Shade Control, Surge Solenoid Control State, Sway Bar Indicator, Swing Gate Lock, Swing Gate Unlock, Swirl Actuator, Swirl Valve actuator Test, Switch Illumination State, Switch On EPB Failure Lamp, Switch On EPB Function Lamp, Switchable Lamps and Trunk Lamp, System Wiring Test, T Case Service Indicator Request, Tachometer, Tail Gate Lock, Tail Gate Unlock, T-Case Brake State, T-Case Mode/Position-Standard, 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 4WD Mode, Telltale ABS, Telltale Airbag, Telltale Brake, Telltale Charging, Telltale ESP, Telltale ETC, Telltale Fog Front, Telltale Fog Rear, Telltale Glow Plug, Telltale High Beam, Telltale Low Coolant, Telltale Low Fuel, Telltale MIL, Telltale Oil, Telltale Seat Belt, Telltale Sway Bar, Telltale Tire Pressure Monitor, Telltale Turn Left, Telltale Turn Right, Telltale VTA, Telltale - Cargo Lamp, Telltale - ESC, Telltale - ESC Off, Telltale - ESP Off, Telltale - Park, Telltale - Position Lamp, Telltale - Rear Fog, Telltale 4WD Low, Telltale Cruise, Telltale Diesel Glow Plug Indicator, Telltale ESP/BAS, Telltale TPM, Telltale Trailer Tow, Telltale-AWD/4WD Fail, Telltale-Coolant, Telltale-Cruise Mode, Telltale-Cruise On, Telltale-Front Axle Lock Mode, Telltale-Full-Time 4WD, Telltale-Off Road Mode, Telltale-Rear Axle Lock Mode, Telltale-Tire Pressure, Telltale-Tire Pressure Monitor, Telltale-Tow Mode, Telltale-TRAC/ESP Off, Telltale-Upshift, Temperature Gauge, Temperature Gauge Gaugepoint, Temporary Remote Start Disable, 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, Throttle Valve Auto Zero, Throttle Valve Span, Tilt Mirrors in Reverse, Time Controlled Spring Fill, Timeout Time Flash To Pass, Timeout Time Paddle Shift Switches, Tire Pressure, Tire Pressure Load Switch Indicator, Tire Pressure Load Switch Pressed, Tire Pressure Monitoring, Tone Test, Topper Center Mounted Stop Lamp, TOPPER CHMSL, Torque Coupling Control, TOW-HAUL, Tow-Haul Indicator, TPM Sensor Rolls, TPM Sensor Rolls Test, Trac Cntrl Outlet Vlv 1(Normal open), Trac Cntrl Outlet Vlv 2(Normal open), Traction Control Outlet Valve 1, Traction Control Outlet Valve 2, Trailer Backup Lamps, Trailer BU Lamps, Trailer Tail Lamp Relay, Transfer Case 4WD/Lock/Part Lamp, Transfer Case AWD/Auto/Full Lamp, Transfer Case Low Lamp Request, Transfer Case Neutral Lamp Request, Transmission Component Tests, Transmission Overdrive, Transmission TCC, Transmission Temperature, Transmission Verification Test, Treble Settings, Trigger Module Test, Truck Bed Lighting Leds, Truck Cargo Lamps, Trunk Liftgate Release Solenoid, Trunk/Flipper Glass Release Motor, Trunk Flipper Glass Release Motor, Tumble Generator Valve, Tuner Rotary

Detents, Tuner Rotary Direction, Turbo/VGT Component Replacement, Turn Left, Turn On all Telltales, Turn On all VF Segments, Turn Right, Turn Signal Clicker, Turn Signal Lamp State, Twilight Sensor Value, UConnect Live Apps Installation, UD Clutch Volume Index Check, UD Solenoid, UGDO Power Supply, Under Drive Solenoid Mode Control, Underdrive Solenoid, Under-Drive Solenoid, Universal Garage Door Opener Control, Unlock 1/Driver Lock, Unlock 1-Driver Lock, Unlock 2/Passenger Locks, Unlock 2-Passenger Locks, Unlock Driver Door On 1st Press, Unlock Run -Start, Unlock RUN-START, Urea (Reductant) Pressure Line Heater Actuator Test, Urea (Reductant) Tank Heater Actuator Test, Urea Dosing Valve Actuation Test, Vacuum Cleaner Power Saver Indicator, Vacuum Cleaner Relay Driver, Vacuum Cleaner Switch Backlight, Vacuum Pump Relay, Variable Displacement AC, Variable Displacement AC Duty Cycle Control, Variable Swirl Actuator, Variable Swirl Valve Shutoff, Variable Valve Timing, VVT Control Valve, Vehicle Speed Output, Vehicle Sway Green, Vehicle Sway White, Vehicle Sway Yellow, Vertical Front, Vertical Rear, VF Display, VF Segments test, VFD Illumination, VFS Duty Cycle, Video Input, View Last Successful Remote Start Event Data, View Last VTA Trigger Cause Data, View Oil Dilution Mass Value, View Remote Start Abort Data, View Remote Start Inhibit Data, View Satellite Sensor Information, View VTA Enable Data, VLP Solenoid, Volume Rotary Detents, Volume Rotary Direction, VTA Indicator LED, VVA Solenoids Pre-Energization, VVL Service Test, VVT Diagnostic, VVT Exhaust Phaser 1 Actuator, VVT Exhaust Phaser 2 Actuator, VVT Intake Phaser 1 Actuator, VVT Intake Phaser 2 Actuator, VVT Solenoid Control State, VVT Tests, Wait To Start Lamp, Wastegate Solenoid Control State, Wastegate Solenoid Duty Cycle, Water In Fuel, Water In Fuel Indicator, Water Pump Charge Air Cooling, Water Pump Control, White Backlighting Buttons, White Backlighting Channel 1, White Backlighting Channel 2, White Backlighting Knob Buttons, White Backlighting Knob Indicators, White Knob Indicators, White Lower Halos, White Upper Halos, Window Control, Window State, Wiper Hi/Low State, Wiper On/Off State, WK Head Rest Relay, Yellow A/C and Auto Indicators, Yellow Button Indicators, Yellow Fault Lamp, Yellow Lane Departure Warning Indicator, Yellow Rear Defrost Indicator, Yellow Recirc Indicator

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

- Added coverage for 105 new system applications

### **New GM Coverage**

- Added coverage for 26 new system applications

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

Adaptive Pressure Control Learn, Automated Brake Bleed, AWD Disabled-by-Malfunction Counter Reset, Backup Battery Timer Reset, Battery Sensor Module Learn, Brake Pedal Position Sensor Learn, Brake Pedal Travel Sensor Learn, Brake Pressure Sensor Calibration, Brake System Plunger Motor Position Sensor Learn, Brake System Plunger Pressure Rise Starting Point Learn, CAN Bus Configuration Learn, Cancel Camera Learn, Clear Disable History Data, Clear Driver Window Learned Values, Clear Left Rear Window Learned Values, Clear Manufacturer Enable Counter, Clear Passenger Window Learned Values, Clear Right Rear Window Learned Values, Configure New Module, Control Module Reset, Copy And Paste TPM Information, Crankshaft Pos Variation Learn, Driver Information Center Options, Engine Oil Life Reset, Front Axle Brake Pad Life Monitoring Reset, Fuel Pump Trim Reset, Fuel Rail Pressure Relief Valve Learned Values Reset, Fuel Trim Reset, Hands-Free Liftgate Sensor Control Module Calibration, HO2S Heater Learn, HVAC Actuators Learn, HVAC Afterblow Configuration, Idle Learn Reset, Info Display/Infotainment Faceplate Reset, Invalidate All Fobs, Liftgate Maximum Open Position Learn,

Park Brake Calibration, Passenger Presence Sensor Learn, Program Key Fob 1, Program Key Fob 2, Program Key Fob 3, Program Key Fob 4, Rear Axle Brake Pad Life Monitoring Reset, Rear Differential Hydraulic System Service Bleed, Reset High Voltage Disable Request After Crash Event Detected, Reset Teen Driver Key PIN, RVS Disable History Reset, Setup SDM Part Number In BCM, Steering Wheel Angle Sensor Centering, Steering Wheel Angle Sensor Learn, Steering Wheel Angle Sensor Offset Calibration, Timing Belt Life Reset, Tire Pressure Reset, Tire Pressure Sensor Registration, Tire Pressure Sensor Signal Reset, Tire Type/Pressure Selection, Transmission Adaptive Pressure Reset, Transmission Clutch 1 Return Spring Learn, Transmission Clutch 1 Volume Learn, Transmission Clutch 2 Return Spring Learn, Transmission Clutch 2 Volume Learn, Transmission Clutch 3 Return Spring Learn, Transmission Clutch 3 Volume Learn, Transmission Clutch 4 Return Spring Learn, Transmission Clutch 4 Volume Learn, Transmission Clutch 5 Return Spring Learn, Transmission Clutch 5 Volume Learn, Transmission Service Fast Learn, WLAN Password Reset, WLAN Service Set Identifier (SSID) Reset, Yaw Rate Sensor Learn

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

A/C Relay, ABS Left Front Solenoid Valves, ABS Left Rear Solenoid Valves, ABS Pump Motor, ABS Right Front Solenoid Valves, ABS Right Rear Solenoid Valves, AC Compressor Solenoid Valve, Accent Lighting 1, Accent Lighting 2, Accessory Power Mode Indicator, Accessory Power Relay, Accessory/RAP Relay, Accessory/Retained Accessory Power Relay, Air Recirculation Door Motor Direction, All Door Lock Unlock, All Indicators, Auxiliary Blower Motor Speed Command, Auxiliary Ignition Run Relay, Backup Lamps, Blower Motor Speed, Brake Booster Electric Vacuum Pump, Brake Hydraulics Test, Brake System Hydraulics Corner Test, Brake Transmission Shift Interlock Solenoid Actuator, Camshaft Position Actuator, Cargo Lamp, CD, Center Brake Lamp, Central Stop Lamp, Child Security Lock Motors, Chime, Compression Test, Courtesy Lamps, Cylinder Power Balance, Daytime Running Lamps, Depressurize Fuel System, Display Dimming, Display Test, Door Dead Lock Lock/Unlock, Driver Information Center Segments, Driver Mirror Movement, Driver Seat Back Horizontal Movement, Driver Seat Cushion Front Vertical Movement, Driver Seat Cushion Left Rear Haptic Movement, Driver Seat Cushion Rear Vertical Movement, Driver Seat Cushion Right Rear Haptic Movement, Driver Seat Horizontal Movement, Driver Window Motor, Engine Oil Pressure Control Solenoid Valve, Engine Speed Control, Erase Valet Mode Code, EVAP Purge/Seal, EVAP Service Bay Test, EVAP Vent Solenoid, Fog Lamps, Forward Collision Alert Switch, Front Fog Lamps, Fuel Control Loop Status, Fuel Injector Balance, Fuel Pressure, Fuel Pump Enable, Fuel Pump, Fuel Rail Pressure, Fuel Trim Enable, GEN L-Terminal, Generator Regulator Setpoint, Green Indicator, Hazard Lamps Switch Backlight, Head-Up Display Dimming Level, Head-Up Display Pattern Check, High Beam, High Beams, High Side Driver 1, High Side Driver 2, Horn Relay, Illuminate All Indicators, Inadvertent Load, Incandescent Dimming, Indicator Dimming, Info Display Test, Instrument Cluster Dimming, Instrument Cluster Gauge Sweep, Key Fob Button Test, Lane Departure Warning Indicator, Lane Departure Warning Switch, LED Backlight Dimming, Left Brake Lamp, Left Front Corner, Left Front Turn Lamp, Left Front Turn Signal Lamp, Left Headlamp Low Beam, Left Low Beam/Daytime Running Lamp, Left Park Brake Actuator, Left Park Lamps, Left Rear Corner, Left Rear Turn Signal Lamp, Left Rear Turn Signal/Brake Lamp, Left Rear Window Motor, Left Temperature Door Motor Direction, License Plate Lamps, Lift Gate Module Open/Close Test, Line PC Solenoid, Line Pressure Control Solenoid Valve, Low Beams, LR Turn Signal, Malfunction Indicator Lamp, Misfire Graph, Mode Door Position, Next Available Slot, O2 Sensor Heater Bank 1 Sensor 1, O2 Sensor Heater Bank 1 Sensor 2, O2 Sensor Heater Bank 2 Sensor 1, O2 Sensor Heater Bank 2 Sensor 2, Object Detection Alert Indicators, Outside Rear View Mirror Courtesy Lamp, Parking Assist Switch LED, Parking Lamps, Passenger Air Bag Off Indicator, Passenger Air Bag On Indicator, Passenger Mirror Movement, Passenger Seat Belt Reminder Indicator, Passenger Seat Belt Tension Sensor, Passenger Window Motor, PC Solenoid 3, Phone Call Test, Pressure Control Solenoid Valve 2,

Pressure Control Solenoid Valve 4, Pressure Control Solenoid Valve 5, Pressure Control Solenoid Valve, Pump Motor, Read LIN Bus Device ID Information, Rear Brake Caliper Piston Extend, Rear Brake Caliper Piston Retract, Rear Cross Traffic Audible Alert, Rear Cross Traffic Visual Alert, Rear Defogger, Rear Fog Lamp, Rear Mode Door Actuator Position, Rear Temperature Door Motor Direction, Rear Washer Relay, Rear Wiper, Rearview Camera Display, Red Indicator, RF Turn Signal, Right Brake Lamp, Right Front Corner, Right Front Turn Signal Lamp, Right Headlamp Low Beam, Right Low Beam/Daytime Running Lamp, Right Park Brake Actuator, Right Park Lamps, Right Rear Corner, Right Rear Turn Signal Lamp, Right Rear Turn Signal/Brake Lamp, Right Rear Window Motor, Right Temperature Door Position, RR Turn Signal, Run Crank Relay, Run/Start Power Mode Indicator, Security Indicator, Shift Lock Solenoid, Shift Solenoid 1, Shift Solenoid 2, Shift Transmission Gear, Shift Transmission, Spark Retard, Starter Relay, Steering Column Telescope In, Steering Column Telescope Out, Steering Column Tilt Down, Steering Column Tilt Up, TCC Pressure Control Solenoid Valve - Dynamic Test, TCC Pressure Control Solenoid Valve - Static Test, TCC Pressure Control Solenoid Valve, Throttle Position, Throttle Sweep, Traction Control Left Front Solenoid Valves, Traction Control Left Rear Solenoid Valves, Traction Control Right Front Solenoid Valves, Traction Control Right Rear Solenoid Valves, Transmission Accumulator Solenoid Valve, Transmission Clutch Learn Status, Transmission Control Solenoid Valve 1 Current, Transmission Control Solenoid Valve 1, Transmission Control Solenoid Valve 10, Transmission Control Solenoid Valve 2 Current, Transmission Control Solenoid Valve 2, Transmission Control Solenoid Valve 3 Current, Transmission Control Solenoid Valve 3, Transmission Control Solenoid Valve 4 Current, Transmission Control Solenoid Valve 4, Transmission Control Solenoid Valve 5 Current, Transmission Control Solenoid Valve 5, Transmission Control Solenoid Valve 6 Current, Transmission Control Solenoid Valve 6, Transmission Control Solenoid Valve 7 Current, Transmission Control Solenoid Valve 7, Transmission Control Solenoid Valve 8 Current, Transmission Control Solenoid Valve 8, Transmission Control Solenoid Valve 9, Vehicle Health Data Upload, Window Lockout Switch Indicator, Windshield Washer Relay, Windshield Wiper Motor Relay, Wiper Washer Motor

## New Coverage Details – USA Asian

### New Honda/Acura Coverage

- Added coverage for 80 new system applications

#### 36 new Adjustment type special tests:

ACM Reset, After a Vehicle Collision, After Replacing Front Passenger Seat Components, Air Bleeding For Repair(ABS), Air Bleeding For Repair(ABS/VSA/TCS), Air Bleeding For Repair(TCS), All Sensors Learning, ATF Reset, Brake Pad Maintenance Mode, Brake Pressure Sensor Calibration, Crank Pattern Clear, Crank Pattern Learning., Customize Reset, Differential Torque Setup, ECM/PCM Reset, Engine Oil Life Reset, High Beam Support System Inspection, Initialization, Manual returning Time, ODS Unit Initialization, OPDS Initialization, Pop Up Hood(PUH) Calibration, Replace TCM/PCM, Reset Of Assistant Side Window Position, Reset Of Driver Side Window Position, Reset Of Rear Left Side Window Position, Reset Of Rear Right Side Window Position, Reset Operation, Reset, Start Clutch Feedback Learn, Start Clutch Status Data Clear, Stroke Sensor Learning, SWS Initialization, The Wheel Size Setup For Indirect TPMS, Tire Pressure Sensor Registration With Activation Tool, Tire Pressure Sensor Registration

#### 392 new Actuation type special tests:

A/C Clutch, ABS Brake Light Relay/TSA Relay Test, ABS ESS Forced Indication, ABS Solenoid Test, ABS VSA Test, ACC Alarm Test, ACC Brake Actuator, ACC Indicator Light, ACC Information

Display, ACC Relay, Accessory, ADJ Motor, AFS Reflector, Air Bypass Valve Control Solenoid (ABV), All Injectors OFF, Assistant Door Courtesy Light, Assistant Door Mirror Motor Down, Assistant Door Mirror Motor Left, Assistant Door Mirror Motor Right, Assistant Door Mirror Motor Up, Assistant Door Pocket Illumination Light, Assistant Outer Handle Illumination Light, Assistant Remote Switch Illumination Light, Assistant Side Power Window Motor Down, Assistant Side Power Window Motor Up, Assistants Inner Handle Illumination Light, Auto Lock Cancel Switch, Automatic Headlights, Automatic Returning Distance, Boost Pressure Test, Both Sides Engagement Clutch Coil Test, BSI Buzzer Status, BSI Fail Lamp, BSI Indicator On, BSI System Fail, BSI System Status, BSI Unavailable, Buzzer, CARD BATT Indicator Turn On, Cargo Light Drive UV Only, Cargo Light Drive, Charge LID Relay, Clean Left Side Radar, Clean Right Side Radar, Clear History Of Switch device, Climate Ctrl Check, Clutch Pressure Control (Linear) Solenoid A, Clutch Pressure Control (Linear) Solenoid B, Clutch Pressure Control (Linear) Solenoid C, Clutch Pressure Control (Linear) Solenoid D, Clutch Pressure Control Solenoid A, Clutch Pressure Control Solenoid B, Clutch Pressure Control Solenoid C, CMBS Brake, Column Telescopic Motor - Full Down, Column Telescopic Motor - Full Up, Column Tilt Motor - Full Down, Column Tilt Motor - Full Up, Communication Status Check, Communication Using Cabin Front Antenna, Communication Using Cabin Middle Antenna, Communication Using Cabin Rear Antenna, Communication Using Driver Antenna, Communication Using Front Passenger Antenna, Communication Using Rear Driver Antenna, Communication Using Rear Passenger Antenna, Communication Using Trunk Room Antenna, Communication Using Trunk/Tailgate Antenna, Cruise Control Cancel History, CS FS Antenna, CTM Buzzer Status, CTM System Fail, CTM System Status, Daytime Running Light (Canada), Daytime Running Light Output, Daytime Running Light Relay, DC Output Cabin Front Antenna, DC Output Cabin Middle Antenna, DC Output Cabin Rear Antenna, DC Output Driver Antenna, DC Output Front Passenger Antenna, DC Output Rear Driver Antenna, DC Output Rear Passenger, DC Output Trunk Room Antenna, DC Output Trunk/Tailgate Antenna, Detect Equipped Honda Body Systems, Display Card Batt, Display Do not have key, Display No Card, Door Lock Without Answer Back, Door Lock, Lock Actuator, Door Lock, Unlock Actuator, Door Unlock Without Answer Back, Driver Door Courtesy Light, Driver Door Lock Unlock Actuator, Driver Door Mirror Motor Down, Driver Door Mirror Motor Left, Driver Door Mirror Motor Right, Driver Door Mirror Motor Up, Driver Door Pocket Illumination Light, Driver Door Power Window Motor - Down, Driver Door Power Window Motor - Up, Driver Inner Handle Illumination Light, Driver Outer Handle Illumination Light, Driver Rear Door Courtesy Light, Driver Remote Switch Illumination Light, Driver Side Power Window Motor Down, Driver Side Power Window Motor Up, DRL Relay, DUAL Indicator, DWS/Indirect TPMS Parameter Configuration Message, EGR Tests, Electric Current of Linear Solenoid CPC, Electric Current of Linear Solenoid DN, Electric Current of Linear Solenoid DR, Electric Current of Linear Solenoid SC, EU DRL, EXT F (Cabin Front Antenna), EXT FR AS (Passenger's Antenna), EXT FR DR (Driver's Antenna), EXT INTTRUNK (Trunk Room Antenna), EXT M (Cabin Middle Antenna), EXT R (Cabin Rear Antenna), EXT RR AS (Passenger Side Rear Passenger's Antenna), EXT RR DR (Driver Side Rear Passenger's Antenna), EXT RT (Cabin Rear Tray Antenna), EXT Side-Glass AS (Side-Glass Passenger Antenna), EXT Side-Glass DR (Side-Glass Driver Antenna), EXT TR (TRUNK Or TAIL-GATE Antenna), Exterior Buzzer Output (Short Time), Exterior Buzzer Output(Long Time), Exterior Buzzer Output, Exterior BUZZER, External Buzzer ON, Fail Wipe Signal, FCAN Authorized Flag, FI Wakeup, Flash Left Side Indicator, Flash Right Side Indicator, Floor Light, Foot Light, Forced Control Of Electric Current Of Linear Solenoid D, Forced Control Of Lockup Clutch, FR DEICER RLY, FR-DEF Indicator, Front ACM Solenoid, Front And Rear ACM Solenoid, Front Center Detection Result, Front Defroster Relay, Front Detection Sound Request, Front Display - Backlight, Front Fog Light, Front Left Detection Result, Front Panel Module, Front Right Detection Result, Front Washer Motor, Front Wiper High Speed, Front Wiper Low Speed, Front Wiper Motor (High), Front Wiper Motor (Low), Frontal Crash Detection Signal Output, Fuel Lid, Fuel Pump OFF, Fuel

Pump ON, G/Box Relay, Gate Light, Gear Shift, Glass Hatch Open, Green LED, Hazard Flashers, Hazard Relays, Head Light (High), Head Light High, Head Light Low, Head Light, Headlight Backup, Headlight Cleaner, Headlight Washer Motor, Headrest Motor, High Beam Support System Operation, High Wipe Signal, Horn, IGNCONT Line, Ignition Key Light, IGNTRX Line Turn To Low Level, IGNTRX Line, Immobilizer Indicator Turn On, Immobilizer Lamp, IMOCONT Line, IMS1 Output, IMS2 Output, IMT(IMRC) Activation, IMT(IMRC) Test, Indicator, INH Solenoid For Start Clutch Type, Initiator Operation Check, Injector Kill Test, Intake VTC Test, Interior Buzzer Output, Interior Light Cut, Interior Light, Interior Small Light, Intermittent Wipe Signal, Internal Buzzer ON, ISO Warning Light, Key Switch Out Line Turn To On, Keyless Buzzer, keyless Check, Left And Right Parking Actuator Control, Left BSI Radar Unavailable, Left Front CAS Solenoid, Left Front Pulser, Left Front Solenoid, Left Front TCS Solenoid, Left Front VSA Solenoid, Left Power Mirror Full Down, Left Power Mirror Full Left, Left Power Mirror Full Right, Left Power Mirror Full Up, Left Power Sliding Door - Buzzer, Left Power Sliding Door - Closer Motor, Left Power Sliding Door - Clutch, Left Power Sliding Door - Drive Motor - Close, Left Power Sliding Door - Drive Motor - Open, Left Power Sliding Door - Release, Left Rear Power Window Motor - DOWN, Left Rear Power Window Motor - UP, Left Rear Power Window Motor Down, Left Rear Power Window Motor Up, Left Rear Pulser, Left Rear Solenoid, Left Rear VSA Solenoid, Left RR Slide Relay, Left Side Engagement Clutch Coil Test, Left Side Indicator, Left Slide Actuator, Left Sliding Door Lock, Left Sliding Door Unlock, Left Turn Signal Lamp, Lights Off Using Backup Line, Lights On Using Backup Line, LIN Washer, LIN Wiper Assembled Position Operation, Lock/Unlock All Doors, Lockup Clutch, Low Wipe Signal, Lumbar Horizontal Motor, MA EPS CONTROL ON/OFF, MA EPS Switching, Maintenance Position Front Wiper, Map Light Off, Memory Buzzer, Memory Indicator 1, Memory Indicator 2, Memory Seat Indicator 1, Memory Seat Indicator 2, Memory Switch Illumination Light, Meter Buzzer, Navigation LCD Display Segment, No CARD Indicator Turn On, No Rain Condition Signal, No Wipe Signal, Occupied Signal Output, Parking Lights, Passenger Door Power Window - Down, Passenger Door Power Window - Up, Passenger Rear Door Courtesy Light, PAX System Warning Reset, Power Seat - Front Up/Down Motor - Full Down, Power Seat - Front Up/Down Motor - Full Up, Power Seat - Rear Up/Down Motor - Full Down, Power Seat - Rear Up/Down Motor - Full Up, Power Seat - Recline Motor - Full Backward, Power Seat - Recline Motor - Full Forward, Power Seat - Slide Motor - Full Backward, Power Seat - Slide Motor - Full Forward, Power Tailgate Clutch, Power Window Relay, Power Window RLY Rr, Pressure Test Assistance mode, Pressure Test, PTG Motor Close, PTG Motor Open, PTG Release Close, PTG Release, Puddlelt, Radiator Fan, Rain Condition Signal, Rear ACM Solenoid, Rear Assistant Door Courtesy Light, Rear Blower, Rear Center Detection Result, Rear Defroster RLY, Rear Defroster, Rear Detection Sound Request, Rear Driver Door Courtesy Light, Rear Fog Lamp, Rear Left Detection Result, Rear Left Door Courtesy Light, Rear Left Inner Handle Illumination Light, Rear Right Detection Result, Rear Right Door Courtesy Light, Rear Right Inner Handle Illumination Light, Rear Seat Switch Light, Rear Washer Motor, Rear Wiper Motor, Recall Memory Position, RECIRC Indicator, Red LED, Returning Operation, RF1 RXVCC, RF1 TXD Line, RF1 TXVCC, RF2 RXVCC, RF2 TXD Line, RF2 TXVCC, RF2 Unit RXVCC Power On, Right BSI Radar Unavailable, Right Front Pulser, Right Front Solenoid, Right Front TCS Solenoid, Right Front VSA Solenoid, Right Power Mirror Full Down, Right Power Mirror Full Left, Right Power Mirror Full Right, Right Power Mirror Full Up, Right Power Sliding Door - Buzzer, Right Power Sliding Door - Closer Motor, Right Power Sliding Door - Clutch, Right Power Sliding Door - Drive Motor - Close, Right Power Sliding Door - Drive Motor - Open, Right Power Sliding Door - Release, Right Rear Power Window Motor - DOWN, Right Rear Power Window Motor - UP, Right Rear Power Window Motor Down, Right Rear Power Window Motor Up, Right Rear Pulser, Right Rear Solenoid, Right Rear VSA Solenoid, Right RR Slide Relay, Right Side Engagement Clutch Coil Test, Right Side Indicator, Right Slide Actuator, Right Turn Signal Lamp, RR-DEF Indicator, S.U.E. Operation For AH-AWD, Security Indicator, Security Net Line Turn To Low Level, Self Check, Self Diag Test, Self



Diagnostic Function, Serial Line Status Check, Shift Lock Solenoid, Shift Solenoid A, Shift Solenoid B, Shift Solenoid C, Shift Solenoid D, Shift Solenoid E, Side or Rear Crash Detection Signal Output, SMART Indicator Turn On, SMART KEY OUT, SMART Lamp, S-Net Line, Solenoid Valve Activation, Starter Switch Light, Store Memory Position, Sub Throttle, Sunroof Close, Sunroof Open, System Check, TC Bypass Valve, Throttle Actuator Control Test, Tilt Mirror, Tire Air Low Indicator, TP Position Check, TPMS Warning Light, Trunk (T/G), TSA Relay Test, Turbo Boost Control Solenoid V, Turn On Left Side Alert, Turn On Right Side Alert, Turn On Right Side Indicator, Unlock Trunk, Upper Park Position Front Wiper, VTEC Solenoid 1, VTEC Solenoid 2, VTEC Solenoid, VTEC Test, Warning Lamp, Warning light activation, Waste Gate Solenoid (WGS), Work LT

## New Nissan/Infiniti Coverage

- Added coverage for 50 new system applications

### 208 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 Lock / Unlock, 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, 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), Ignition Timing Adjustment, 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, 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, Retained Power Setting, Reversing Camera Guidelines Correction, Room Lamp Off Timer Setting, Room Lamp On Timer Setting, Room Lamp Timer Setting, RTCV Actuator Calibrate, Save Computer Data, Save/Write Data for CPU Replace, 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 OBD test: Catalytic converter, Start OBD test: O2 sensors, Starter Operation Count Clear, Starter Operation Counter Clear, Steering Angle Initialization, 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, 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

### **655 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, 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, 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 SEG, All Shock Absorber, Alternator Duty Cycle, Alternator Duty, Alternator Voltage, 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 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, 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, 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: Test, Door Handle Lamp Test, 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, Driver Seat, EAP SW LAMP, EAPM Warning Lamp, 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, 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 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 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 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, 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 Valve Flow, HEATING RESISTOR RELAY 1, HEATING RESISTOR RELAY 2, HEATING RESISTOR RELAY 3, 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, HVAC Test, Hydraulic Control, 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, 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 Indic. 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, Light On Alarm, LIGHT WARN ALM, Lock (Central Locking), Lock Doors, Lock Indicator, Low Pressure Fuel Pump, LPG Air Fuel Ratio Revision Value, LPG Shutoff Valve Relay, Luggage Lamp Test, Malfunction Status Of Stop/Start System, MAP/Baro SW/V, Master Warning Active, Meter Buzzer, Meter Lamp, Mirror +5 V Test, 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, PB SW indicator ON, PBD, 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 Slide Door, Power Sliding

Door, 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, Purging Switchover Valve, Push Switch Indicator, 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, Rear Assist Window, Rear Buzzer, Rear Defogger Indicator, Rear Defogger, Rear Driver Window, Rear Left Solenoid, Rear O2 Diagnosis, Rear Right Solenoid, Rear Wiper, Recycle Air Memory Switch, Release Hand Warning, Remote Engine Starter, Retractable Mirror, Reverse Gear Reset Values Of Shift Operations, Reverse Lamp, Reverse Warning, Right Exterior Mirror LED Test, Rise Up Wiper Test, RL Shock Absorber, RL Tire Disp, 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, Secondary Air Cut Solenoid, Security Horn, Security Indicator, 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, 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, Speaker Mute Signal, Speed Sensor Function, START Button Illumination, 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 ON Relay Active, Stop Lamp On Relay, Stop Lamp, Stop Light Relay, Stop start OFF switch indicator, 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, 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, THEFT IND, Theft Indicator, Thermostat Heater Control Solenoid Valve, Third O2 Sensor Heater, Third O2/S Diagnosis, Throttle Valve Position Setpoint, 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/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, 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 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, VTC Solenoid, VVL Int Exh Solenoid Simultaneous Drive, VVL Solenoid Exhaust, VVL Solenoid Intake, W/G, Warning

Buzzer, Warning Lamp, Warning System Indicator, Washer Fluid Pump Relay, Wastegate Actuator, Water Temperature, YAW STEP L, YAW STEP R, Yellow Lane Dep.Warng.Indic. Lamp

## New Subaru Coverage

- Added coverage for 25 new system applications

### 1 new Adjustment type special tests:

Tire Pressure Sensor Registration

### 1 new Actuation type special tests:

Signal Check

## New Toyota/Lexus Coverage

- Added coverage for 205 new system applications

### 568 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, 6MT Setting, A/C Control Mode Switching, A/T Code Reset, Activate The EGR Valve Close Bank 1, Activate The VN Turbo Open Bank 1, Activate The VSV For Air Bleed Control, Active Rear Wing Control, Actuator Air Bleeding Pattern, Add Foot Air in FACE Mode, Advanced Illumination System Setting, Advanced Park Parallel Parking Control Area, Advanced Park Perpendicular Parking Control Area, Advanced Parking Guidance Avoidance Distance, Advanced Parking Guidance Parallel Parking Area, Advanced Parking Guidance Perpendicular Parking, AFS (Electronic Swivel) Function, AFS Function, AHS Function, AHS Operation Pattern Setting, Air Bleed, Air Bleeding - FL Line, Air Bleeding - FR Line, Air Bleeding - RL Line, Air Bleeding - RR Line, Air Bleeding Pattern - RL Wheel, Air Bleeding Pattern - RR Wheel, Air Bleeding, Air Conditioner Mode, Air Conditioner Switch Indicator Function, Air Inlet Damper Mode, Air Inlet Damper Targ Pulse, Air Inlet Mode, Air Outlet Servo Pulse (P), Air Purifier Auto Cancel, Air Purifier, All Readiness, All Unlock/Open-Close, Ambient Temperature Adjustment, Ambient Temperature Shift, Approach Display OFF, AT Code Registration, ATF Thermal Degradation Estimate Reset, Audio Information Display Function, Auto A/C, Auto Fold Mirror, Auto Lock Time, Auto Lock, Auto Lock/Shift, Auto Mode Start Function, Auto Rear Wiper in Reverse Setting, Auto Unlock/Shift, Auto Wiper, Automatic Door Lock Function, Automatic Door Unlock Function, Automatic Locking after Getting Out Function, Automatic Locking Cancel Time Adjust, Automatic Locking Time Adjust, Automatic Locking Timeout Adjust, Back Door Opening Operation, Back Door Power Window Down, Back Door Power Window Up, Backup Battery Replacement Reset, Bad Weather Function, Battery Status Info Update, Blower Operation Setting (StopStart), Bluetooth Connection History, Body Control with Torque Demand, Body Ctrl with Torque Demand, BSM Approaching Vehicle Detection Timing Setting, BSM Buzzer Volume Adjust, BSM Master Abnormal History, BSM Mirror Indicator Brightness, BSM Slave Abnormal History, Button Press Buzzer, Camera Synchronous Error History, Center Console Spot Light, Clear Abnormal Operation History, Clearance Warning Buzzer Volume, Close ALL P/W Function, Closer Power Operation, Compressor Mode, Compressor/Air Inlet DEF operation, Cruising Range Reset, CVT Oil Pressure Calibration, D Seat Lift Up Buckle Operation Function, D Seat Lower Back Operation Away Function, D Seat Lower Cushion Operation Away Function, D Seat Lumbar Operation Away Function, D Seat Operation Interference Avoidance Function, D Seat Reclining Link Headrest F/R Length Function, D Seat Refresh Level Setting, D Seat Shoulder Operation Away Function, D Seat Side Back Support Operation Away Function, D Side Cushion Support Operation Away Function, D

Window Auto Down, D Window Auto Up, Daylight Function, DCM Operation History, Deceleration Sensor Zero Point Calibration, DEF(PSW/Lock) Mode Setting, Delay of Monitoring, Destination Setting, Detection of Vehicle, Diagnostic Mode, Disp Ex OFF Sen, Disp Ex ON Sen, Door Handle Lock Button, Door Key P/W Down, Door Key P/W Up, Door Key Related Close, Door Key Related Open, Door Key Related Operation, Door Unlock Mode, Door Unlock Mode2, Door Unlock Sensor Touch Time Adjust, Door Unlock with 1 Motion, Double Door Lock Time Adjust, Double Door Unlock Setting, Double Lock, Drain System Air Bleeding Pattern, Driver Seat RA Lumbar Support Oper, Driver Seat RA Pelvis Support Oper, Driver Seat RA Side Support Oper, Driver Seatbelt Warning Buzzer Function, Driver Side Seatbelt Warning Buzzer, DRL Function, ECO Drive Indicator Light, ECO Drive Indicator Zone Display Function (Meter), ECO Drive Indicator Zone Display Function, ECO Drive Indicator Zone, ECO MODE Cancel, ECO Mode Start Function, Electric Parking Brake System: Test Mode Procedure, Emblem Sensor Detection Sensitivity, Emission Gas Sensor Shift, Engine Revolution (For Judging Stable Combustion), Engine Start Indicator, Engine Switch Light Function, Entry Delay Time, Entry Delay, EPB Initialize, EV Mode Cruising Range Reset, EV System Start Indicator, Evaporator Control, Exterior Light (Door Open), Exterior Light Control, FACE Wind Amount Adjust Function, Factory Mode, Fan speed increment control, FCTA Function ON/OFF State Stored, FCTA Warning Timing State Stored 1, FCTA Warning Timing State Stored 2, FCTA Warning Timing State Stored 3, Filter Sensor, FL Neck Heater Auto Mode Adjustment, FL Seat A/C and Heater Sensitivity Adjust, Flasher Sound Tone Setting, Flasher Sound Volume Adjust, Flasher Sound Volume Adjustment, Follow Me Home Lighting Time, Foot/DEF Auto Mode, Foot/DEF Automatic Blow Up Function, Forced Actuator Refresh, Fr Rr Buzzer Freq, Fr Rr Buzzer Volume, Fr Corner Sensor Onset Range, FR Neck Heater Auto Mode Adjustment, FR Seat A/C and Heater Sensitivity Adjust, Fr Sensor Onset Range, Fr Side Sens Actuation Setting, Fr/Rr Seat Interference Avoidance Function (D), Fr/Rr Seat Interference Avoidance Function (P), Front Center Seatbelt Warning Buzzer Function, Front Passenger Side Seatbelt Warning Buzzer, Front Side Dist Sensor, Front SW Auto Operation, Fuel Density Learning Value Reset, Grille Shutter Initialization, Halogen Lamp/HID, Headlight in Conjunction with Wiper, Headlight Upper Shade Angle Setting, Height Offset Rear Wheels, Height Sensor Initialization, High Voltage Fuse Accumulated Load History Reset, HWD Auto Function, I/L ON W/Door Key Unlock, I/L when ACC OFF, ICS Function, ICS Stop Distance, ICS SW Status Memory, ID Registration/Tire Position Write, IG ON Key Out Warning, Ignition Available Area, Illumination Module A1, Illumination Module A2, Illumination Module A3, Illumination Module A4, Illumination Module B1, Illumination Module B2, Illumination Module B3, Illumination Module B4, Illumination System, Initialization, Injection Timing Value, Injection Timing, Inside Foot Light, Instr-Panel Interference Avoidance Function (P), Interior Light Control, Intrusion Sensor Function, Intrusion Sensor Sensitivity Level, Intrusion Sensor Sound Detection Function, Intrusion Win Opened, Intuitive P/A Auto Mute Function, Ion Generate Control, IPA Obstacle Avoidance Distance, IPA Parallel Parking Control Area, IPA Perpendicular Parking Control Area, Keep Sense Buzzer, Key Low Battery Warning, Key Out Range Warning, Key Remind Sound, Key Remind Volume, Kick Sensor Close Lock Function, Lane Change Flashing Times Adjust, Lane Change Flashing Times Setting, Lane CHG Flash CNT, Language, Learning Value Reset, Leave Buzzer Volume, Light Auto OFF Delay, Light Control, Light up Clearance Lights at Door Unlock Function, Light up Clearance Lights Door Unlock Function, Lighting (EXT): Headlight Assembly Adjustment, Lighting Time, Lost Communication Time Initialization, Low Speed Wide Light Function, Manual Fr/Rr Seat Interference Avoidance Function, Master Caution Display Function, Memory Call Link Function, Mirr-Foot-Lgt Approached/Exterior Light Approached, Mirr-Foot-Lgt Unlocked/Exterior Light Unlocked, Mirr-Foot-Lgt w/Master SW, Mirror Foot Light Time/Exterior Light Time, MT/AT Setting, Noise and Vibration Reduction, Non P/R Range Rear Sensor, Object Not Moving 3s Buzz Vol, ODO Display Time After IG OFF Adjust, ODO Display Time After IG OFF Setting, One Motion with Unlock Door, One Motion, One Touch Open/Close SW Operation Setting (RL), One Touch

Open/Close SW Operation Setting (RR), Operation History Clear, Optical Disc Error History, Ottoman Return Position, Out-Handle-Lgt Approached, Out-Handle-Lgt Unlocked, Out-Handle-Lgt w/Master SW, Outside Air Mode Auto Switch Function, Outside Door Handle Fold Adjust, Outside PSD SW Operation(RL), Outside PSD SW Operation(RR), Oxygen Supply, P Auto Operation Interference Avoidance Function, P Seat Auto Switch Return Function, P Seat Lift Up Buckle Operation Function, P Seat Lower Back Operation Away Function, P Seat Lower Cushion Operation Away Function, P Seat Lumbar Operation Away Function, P Seat Operation Interference Avoidance Function, P Seat Pressure Correction Function, P Seat RA Return Operation Function, P Seat Reclining Link Headrest F/R Length Function, P Seat Refresh Level Setting, P Seat Shoulder Operation Away Function, P Seat Side Back Support Operation Away Function, P Side Cushion Support Operation Away Function, P Window Auto Down From Driver, P Window Auto Down, P Window Auto Up From Driver, P Window Auto Up, P/W Down W/ Transmit, P/W Up W/ Smart, P/W Up W/ Transmit, P/W Wireless Ope Buzz, Panic Alarm Function, Panic Function, Park Wait Time, Partition Lighting Adjust, Passenger Seat RA Lumbar Support Oper, Passenger Seat RA Pelvis Support Oper, Passenger Seat RA Side Support Oper, Passenger Seatbelt Warning Buzzer Function, Passenger Take Key, Passive Mode (Security System), PBD Assist Close Operation, PBD Assist Open Operation, PBD Buzzer Function, PBD Buzzer Tone, PBD Buzzer Volume Adjust, PBD Close SW Press Condition, PBD Close SW Waiting Time, PBD One Motion, PBD Power Operation, PBD SW Operation, PBD/Emblem Sensor Function, PCS Alarm Activation Distance Retention Setting 1, PCS Alarm Activation Distance Retention Setting 3, PCS Cooperate Function, PCS Operation State Retention Setting, PCS Reminder Buzzer Sound, PCS Warning Sensitivity Retention Setting, PCS Warning Timing State Stored 3, Pilot Injection Volume Select Cylinder, Pilot Injection Volume Value, Pilot Injection Volume, 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 Back Door Opening Adjust, Power Saving Wait Time(Out Of Entry Range), Power Supply Air Bleeding Pattern 1, Power Supply Air Bleeding Pattern 2, Power Window Voice Control Function, Pre Air Conditioner Defrosting Function, Prevention of Key Left in Vehicle, Prohibition Flag of FHL Function, Projection Adjustment (Distortion), Projection Adjustment (Keystone), Projection Adjustment (Tilt), Provision of When Door is Half Open, Proximity Sound Control (Vehicle Stationary), Proximity Sound Level Increase (Vehicle Starting), Proximity Sound Volume Adjustment, PSD Buzzer (LH), PSD Buzzer (RL), PSD Buzzer (RR), PSD Preparation for Open Function, PSD SW Operation (LH), PSD SW Operation (RL), PSD SW Operation (RR), P-Seat Auto Pattern, RA Ottoman Operation, RCTA Function, RCTAB Function, RCTAB Operation Timing Setting, RCTAB Sensitivity, Rear A/P HI Set, Rear Center Seatbelt Warning Buzzer Function, Rear Curtain Close Relay, Rear Curtain Open Relay, Rear Left Master SW Shade Function, Rear Left Seatbelt Warning Buzzer Function, Rear Right Master SW Shade Function, Rear Right Seatbelt Warning Buzzer Function, Rear Seat Interference Avoidance Function (P), Rear Seatbelt Warning Buzzer Function, Rear Seatbelt Warning Buzzer, Rear Shade Delay Time, Rear SW Auto Operation, Rear Wiper INT Operation, Relax with Ottoman Up, Relax with P-Seat Lift, Relax with P-Seat Slides, Remote Air Conditioner Start Setting, Remote Air Conditioner Stop Setting, Remote Door Lock Setting, Remote Eng Start Stop Setting (Trunk Lid Opened), Reset Memory, Residential Area Mode Setting, Return with Passenger Seat, Reverse Buzzer Setting, Reverse Coupled Actuation Mirror Angle, Reverse Range Front Sensor, Right Headlight Shade Angle Setting, RL Back View Auto Memory Operation Function, RL Back View Memory Operation Slide Pos Setting, RL Business Mode Operation Site Change Function, RL Door Open Return Auto Function, RL Door Open Return Reinstatement Auto Function, RL Entertain Mode Operation Site Change Function, RL Entertain Mode P-Seat Target Position



Setting, RL Interference Avoidance Operation Area Setting, RL Manual Ottoman Close Finish Buzzer Function, RL Memory Operation Ottoman Position Setting, RL Occupant Condition Setting, RL Ottoman Operation Buzzer Function, RL Pressure Correction Function, RL Refresh Spot Heater Upper Limit Temp Setting, RL Relaxation Mode Operation Site Change Function, RL Riding Position Operation Function, RL Seat A/C and Heater Sensitivity Adjust, RL Seat Back Finish Buzzer Function, RL Seat Back Operation Order Change Setting, RL Seat Heater Auto Function, RL Seat Lift Up Buckle Operation Function, RL Seat Operation Site Change Function, RL Warmth Refresh Heater Level Setting, RL Window Auto Down From Driver, RL Window Auto Down, RL Window Auto Up From Driver, RL Window Auto Up, Roof Opened Intrusion Function, Room Light when Aprchd, R-pos to Rear Sun Shade COM, RR Back View Auto Memory Operation Function, RR Back View Memory Operation Slide Pos Setting, RR Business Mode Operation Site Change Function, Rr Corner Sensor Long Distance Detection (Shift R), Rr Corner Sensor Onset Range, RR Door Open Return Auto Function, RR Door Open Return Reinstatement Auto Function, RR Entertain Mode Operation Site Change Function, RR Manual Ottoman Close Finish Buzzer Function, RR Memory Operation Ottoman Position Setting, RR Occupant Condition Setting, RR Ottoman Operation Buzzer Function, RR Pressure Correction Function, RR Refresh Spot Heater Upper Limit Temp Setting, RR Relaxation Mode Operation Site Change Function, RR Riding Position Operation Function, RR Seat A/C and Heater Sensitivity Adjust, RR Seat Back Finish Buzzer Function, RR Seat Back Operation Order Change Setting, RR Seat Heater Auto Function, RR Seat Lift Up Buckle Operation Function, RR Seat Operation Site Change Function, Rr Sensor Onset Range, RR Warmth Refresh Heater Level Setting, RR Window Auto Down From Driver, RR Window Auto Down, RR Window Auto Up From Driver, RR Window Auto Up, S-Belt-Bkl-Lgt/ACC OFF, S-Belt-Bkl-Lgt/Door Open, Scuff Plate Lamp linked to D-Door Unlock SW, Scuff Plate Lamp linked to Door open, Scuff Plate Lamp linked to Smart, Scuff Plate Lamp linked to Wireless Key, Seat Belt Warning, Seat Blast Mode Setting, Seat Heater Auto Operation, Seat Lift Up Distance Adjust, Seat Move Distance, Seat Position Voice Control Function, Seat position/Tilt Telesco memory recall setting, Seat Switch Link Function, Seat Travel Distance, Seatbelt Information Indicator, Security Alarm Setting, Security control with mechanism key, Security System, Sedan/Wagon Setting, Sensitivity, Sensor Condition N, Servomotor Initialization, Set Temperature Shift, S-FLOW Control Auto Function, Shade Upper Area Lighting Function, Shift Control Synchronization, Side Sensor Alarm Function, Side Sensor Onset Range, Slide Link Cushion Length Ctrl, Slide Link Hdrest Length Ctrl, Slide Roof Open Warning, Slide Roof Voice Control Function, Software Error History, Sonar Mode, Speed Alarm Buzzer Function, Speed Limit Display Function, Start PreA/C, Steering Heater Auto Function, Steering Heater Sensitivity Adjust, Step Light Lighting Time, Stop PreA/C, SUBARU/Toyota, Sudden Braking Notification Function, Suggestion Service Function, Switch Battery Type, Switch Grille Shutter Control Mode, Switch Oil Maintenance Display, Tacho Meter Mode, Tail Remind Buzzer Function, Tail Remind Buzzer, Telematics Microphone Volume Adjust, Telematics Speaker Volume Adjust, Temporary Mute Function, Temporary Mute Reset Speed Adjust, Timing Adjustment of PSD Prep for Open Function, Tire Circumference Setting, Tire Pressure Sensor Registration, Torque Sensor Adjustment, Total Warm-up Time Setting, Touch Activation Over Threshold, Traffic Sign Recognition Animation Function, Trunk Lid Operation, Trunk Link with Door Lock, Trunk Open Mode, 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), Units By Region, Unlock 2 Operation, Unlock Key Twice, User Support Service Function, Usual Air Bleeding - All lines, Usual Air Bleeding - FL Line, Usual Air Bleeding - FR Line, Usual Air Bleeding - RL Line, Usual Air Bleeding - RR Line, Valet Mode Cancel, Video Device Connection Check(mm), Voice Guidance Function, VSC/TRAC/4WD Control Prevention Mode, Warm-up Time Setting, Warning by Glass

Broken Sensor, Warning by Horn, Warning Time, Window Open Warning, Wiper Specification Switch, Wiper Voice Control Function, Wireless Auto Lock, Wireless Buzzer Resp, Wireless Buzzer Vol, Wireless Buzzer Volume Setting, Wireless Buzzer Volume, Wireless Control, Wireless Glass Hatch Open, Wireless Key Related Close, Wireless Key Related Open, Wireless Key Related Operation, Wireless Lock Function with Doors Open, Wireless PBD Operation, Wireless Power Back Door Open, Wireless PSD Operation (RL), Wireless PSD Operation (RR), Wireless PSD SW Operation (LH), Wireless PSD SW Operation(RL), Wireless PSD SW Operation(RR), Write VIN, Zero Point Calibration Sensitivity Check, Zero Point Calibration, Zero Point Sensor Calibration

### **1320 new Actuation type special tests:**

2nd START Indicator, 4LO Indicator, 4WD AUTO Indicator, 4WD Auto Mode Indicator, 4WD Control Prevention Mode, 4WD Indicator (Green), 4WD Indicator (Yellow), 4WD Lock Indicator, 4WD Warning Indicator, 4WD Warning Light, 4WD Warning, A/C Idle Up VSV, A/F Control, A/M Servo Pulse(FR D), A/M Servo Pulse(FR P), A/O Servo Pulse(FR D), A/O Servo Pulse(FR P), A/O Servo Pulse(Rr D), A/O Servo Pulse(Rr P), A/T Indicator Operation 1, A/T Indicator Operation 3, A/T Oil Temperature Operation, ABS Front Left Hold Solenoid, ABS Front Left Release Solenoid, ABS Front Right Hold Solenoid, ABS Front Right Release Solenoid, ABS Indicator Lamp, ABS Rear Left Hold Solenoid, ABS Rear Right Hold Solenoid, ABS Rear Right Release Solenoid, ABS Solenoid (SFLH), ABS Solenoid (SFLR), ABS Solenoid (SFRH), ABS Solenoid (SFRR), ABS Solenoid (SRLH), ABS Solenoid (SRLR), ABS Solenoid (SRRH), ABS Solenoid (SRRR), ABS Solenoid, ABS Warning Light, ABS Warning, Access to Rear Seat Signal, Accumulator Valve, Accumulator Zero Down, ACM Inhibit, Activate DPF Rejuvenate (PM), Activate DPF Rejuvenate (S), Activate DS1 Solenoid, Activate DS2 Solenoid, Activate DSL Solenoid, Activate EGR Cooler Bypass VSV, Activate Fuel Pressure Switching Valve, Activate Fuel Route Switching Valve Relay, Activate Lock Up, Activate S1 Solenoid, Activate S2 Solenoid, Activate S3 Solenoid, Activate S4 Solenoid, Activate SL Solenoid, Activate SL1 Solenoid, Activate SL2 Solenoid, Activate SL3 Solenoid, Activate SL4 Solenoid, Activate SL5 Solenoid, Activate SLS Solenoid, Activate SLT Solenoid, Activate SLU Solenoid, Activate SR Solenoid, Activate ST Solenoid, Activate the (Inverter) Water Pump, Activate the 4WD Lock Light, Activate The ACC Cut Relay, Activate the Air Inlet Damper Target Pulse, Activate The Air Pump Heater, Activate the Circuit Relay, Activate the Coolant Water Route Switching Valve 2, Activate The Coolant Water Route Switching Valve, Activate The EGR Valve Close, Activate the Electric Heater1 Relay, Activate the Electric Heater2 Relay, Activate the Electric Heater3 Relay, Activate The Electric Water Pump, Activate The Emergency Solenoid Valve, Activate the Engine Oil Pressure Control Valve, Activate the EVAP Purge VSV, Activate The FHL, Activate The Fuel Filler Opener, Activate the Fuel Pressure Discharge, Activate The Fuel Pump Speed Control, Activate The Fuel Pump2 Speed Control, Activate The Fuel Return Pipe Valve, Activate The Fuel Vapor-Containment Valve, Activate the In-tank Fuel Pump Relay, Activate The LPG Solenoid Valve, Activate the Mirror Heater Relay, Activate The Power Window, Activate The Pre-Stroke Control Valve, Activate the Rear AC Magnet Valve, Activate The Return Solenoid Valve, Activate the Slip Indicator Light, Activate The Solenoid (DS1), Activate The Solenoid (SC1), Activate The Solenoid (SC2), Activate the Solenoid (SC3), Activate the Solenoid (SL6), Activate The Solenoid (SLC), Activate The Solenoid (SLG), Activate The Solenoid (SLN), Activate the Solenoid (SLS) High/Low, Activate the Solenoid (SLS) MAX/MIN, Activate The Solenoid(Sc), Activate The Solenoid(Slp), Activate The Starter Relay, Activate the TC Terminal, Activate The Vacuum Pump, Activate The VALVEMATIC After Warm Up, Activate The VALVEMATIC Before Warm Up, Activate The VN Turbo Cleaning, Activate The VSV For AICS, Activate The VSV For Canister Control, Activate The VSV For Evap Control, Activate The VSV For Exhaust Brake, Activate The VSV For Fuel Pressure Up Control, Activate The VSV For Intake Control, Activate The VSV For Purge Cut, Activate The VSV For Secondary Air Control, Activate The VSV For Swirl Control Valve, Activate The VSV For Tank Bypass, Activate The VSV For Vent Valve, Activate The

Water Flow Valve 3, Activate The Water Flow Valve 4, Activate The Water Flow Valve 5, Activate The Water Pump, Activate Vent VSV, Active TRC Indicator, Active TRC Warning Indicator, ACTIVE TRC Warning, Adjustable Seat, Advanced Parking Guidance Indicator, Advice Display, AF/O2 Sensor Operation, AFS Alarm Display, AFS OFF Indicator, Air Bypass Valve Solenoid, Air Cleaner Warning, Air Conditioner Auto Indicator, Air Inlet Damper (Rear), Air Inlet, Air Mix Damper (Driver Side), Air Mix Damper (Passenger Side), Air Mix Damper (Rear), Air Mix Servo Targ Pulse(D), Air Mix Servo Targ Pulse(P), Air Mix Servomotor Pulse D Side, Air Outlet (Front), Air Outlet (Rear), Air Outlet Damper (Driver Side), Air Outlet Damper (Passenger Side), Air Outlet Damper (Rear), Air Outlet DEF, Air Outlet Rear FOOT (Driver Side), Air Outlet Rear FOOT (Passenger Side), Air Outlet Servometer Pulse (D), Air Purifier Mode, Air Purifier(Ion), Air Suspension Indicator - HI, Air Suspension Indicator - LO, Air Suspension Indicator - N, Air Suspension Indicator (HI), Air Suspension Indicator (LO), Air Suspension Indicator (N), Airbag Warning, All Indicator, Alternator Voltage Control, ARS Warning Light, Ashtray Light, ASL Indicator, ASL Warning, Assist Fan, 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, A-TRC(TRAC) Indicator Light, Audio / Heater IG, Audio / Heater Power Supply, Auto Air Conditioner Indicator, Auto High Beam Control Indicator, Auto High Beam Warning Indicator, Auto Leveling Headlamp Indicator, Auto Light, Auto LSD Indicator Light, Auto LSD Indicator, Auto Mode, Auto Oil Supply System, Auto Power OFF Cancel, Automated EVAP Test, Automatic High Beam Indicator (Green), Automatic High Beam Indicator (Yellow), Automatic High Beam Indicator, Automatic High Beam Operation, Automatic High Beam Switch Light, Automatic High Beam, Auxiliary Battery Charge Warning, Auxiliary Battery Warning, AVS Comfort Indicator, AVS Sports Indicator, Back Door Select, Backup Relay, Batt Cool Down Servo Targ Pls, Battery Magnetic Valve, Beep, BH Operated Light, BH Standby Indicator, BH Standby Light, Blind Spot Monitor Indicator, Blower Motor, BR2-BL2 Heater, BR5-BL5 Heater, Brake Ejector VSV, Brake Hold Indicator, Brake Indicator Lamp, Brake Lining Wear Warning, Brake Override Indicator, Brake Override Warning, Brake Warning Light, Brake Warning, BSM Indicator, BSM OFF Indicator, BSM State, 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), Buzzer, Cancel Communication Function Pausing, Cargo Light, Catalyst OT Misfire Prevention F/C, Ceiling Light, Cent Consol Spot LGT, Center DIFF LOCK Indicator, Charge Indicator Lamp, Charge Indicator, Charge Warning (Red), Charge Warning Indicator, Charge Warning, Check Display, Check Engine Lamp, Check Engine Warning, Check Mode, Check The Cylinder Compression, Check The Imbalance Cylinder, Clearance Light, Clearance Sonar LCD Indicator, CNG Mode Indicator, 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 Check, Compression Test, Compressor Motor Relay, Compressor Target Speed, Connect The TC And TE1, Control ETCS Open/Close - Fast, Control ETCS Open/Close - Slow, Control The A/C Cut Signal, Control The A/C Magnet Clutch, Control the ACIS VSV Motor Duty Ratio, Control The ACM Inhibit, Control The All Cylinders Fuel Cut(CNG), Control The All Cylinders Fuel Cut, Control The C/D, Control the Cylinder#1 Fuel Cut, Control the Cylinder#2 Fuel Cut, Control the Cylinder#3 Fuel Cut, Control the Cylinder#4 Fuel Cut, Control the Cylinder#5 Fuel Cut, Control the Cylinder#6 Fuel Cut, Control the Cylinder#7 Fuel Cut, Control the Cylinder#8 Fuel Cut, Control The EGR Step Position Bank 1, Control The EGR Step Position, Control The EGR System, Control The Electric Cooling Fan, Control the Electric Thermostat Duty Ratio, Control the Engine Cooling Fan Duty Ratio, Control The ETCS Open/Close Fast Speed, Control The ETCS

Open/Close Slow Speed, Control The Exhaust Exterior Valve Angle, Control the Exhaust VVT OCV Duty Ratio Bank 1, Control the Exhaust VVT OCV Duty Ratio Bank 2, Control The Fuel Pump / Speed, Control The Fuel Pump Duty Ratio (Brushless), Control the Fuel Pump Duty Ratio, Control The Idle Fuel Cut Prohibit, Control The Injection Mode, Control The Injection Volume For A/F Sensor, Control The Injection Volume(CNG), Control the Intake VVT OCV Duty Ratio Bank 1, Control the Intake VVT OCV Duty Ratio Bank 2, Control The Intercooler Water Pump, Control The Line Pressure Up, Control The Lock Up, Control the Motor/Generator Cooling Oil Pump, Control The Select Cylinder Fuel Cut, Control The Selected Cylinder Fuel Cut, Control the Shift Area (CVT), Control the Shift Position 4 Speed, Control The Shift Position, Control The Shift Ratio (CVT), Control The Supercharger, Control the Target Fuel Pressure Offset, Control the Transmission Oil Pump, Control The VVT Linear (Bank1), Control The VVT System (Bank1), Control the VVT-iE Linear (Bank 1), Control the VVT-iE Linear (Bank 2), Control the Wastegate Valve Duty Ratio, Cool A/M Servo Pulse(D), Cool A/M Servo Pulse(P), Cool Air Bypass Damper (Driver Side), Cool Air Bypass Damper (Passenger Side), Cool Air Bypass Pls(P), Cool Air Bypass Pulse, Coolant Cool Warning Lamp, Coolant Hot Warning Lamp, Cooling Electric Expansion Valve, Cornering Lamp Test, Cornering Light, Cornering Light-Front Side Illuminate Light, Courtesy Light, Courtesy SW Signal, Crawl Control Light, CRAWL Indicator, CRAWL Warning Indicator, CRAWL Warning, Cruise Control-PCS-LKA Buzzer, Cruise Indicator (Yellow), Cruise Indicator, Cushion Length, Cylinder Balance #1, Cylinder Balance #2, Cylinder Balance #3, Cylinder Balance #4, Cylinder Balance #5, Cylinder Balance #6, Cylinder Balance #7, Cylinder Balance #8, Cylinder Compression Check, D-4S (A/F Control), D-4S (Fuel Cut), D-4S (Injection Volume), DAB Indicator Light, Damper Step FL (Electric Current), Damper Step FL, Damper Step FR (Electric Current), Damper Step FR, Damper Step RL (Electric Current), Damper Step RL, Damper Step RR (Electric Current), Damper Step RR, Day/Night Time signal, Daytime Running Light, DCM Firmware Update, D-Door Unlock, DEF A/O Servo Pulse(D), Defogger Control, Defogger Relay Rear, Dehumidification Magnetic Valve, Deicer Relay Front, Delivery Heater, Delivery Shut Valve, Diesel Particulate Filter Warning, Diesel Throttle Target Angle 2, Diesel Throttle Target Angle Bank 1, Diesel Throttle Target Angle, Diffuse Pulse(R), Dimmer Signal, Display Mode, Door Illumination 1, Door Illumination 2, Door Lock Indicator, Door Lock, Door Lock/Unlock Status Lamp, Door Open Warning, Double Lock Unset, Downhill Assist Control Indicator, Downhill Assist Control Light, Downhill Assist Control Warning, Drift From The Lane Indicator, Drift From The Lane Warning, Drift From The Lane, Drive Swivel Motor LH LEFT, Drive Swivel Motor LH, Drive Swivel Motor RH RIGHT, Drive Swivel Motor RH, Drive The Leveling Motor, Driver Side Door Open, Driver Side Seat Belt Warning, Driver Side Seat Belt, Dr-Seat Outside Transmitter, Dr-Seat Select, D-Seat Outside Transmitter, D-Seat Select, DSS Signal Buzzer, DSU Solenoid, Easy Access Buckle, EBS Relay, ECB Control Invalid, ECB Main Relay 2, ECB Main Relay, ECB Main Relay2, ECB Motor Relay, ECB Motor Relay2, ECB Solenoid (SC1), ECB Solenoid (SC2), ECB Solenoid (SCC), ECB Solenoid (SGH), ECB Solenoid (SLA) Valve Close, ECB Solenoid (SLA), ECB Solenoid (SLAFL) Valve Close, ECB Solenoid (SLAFL) Valve Open, ECB Solenoid (SLAFL), ECB Solenoid (SLAFL2), ECB Solenoid (SLAFR) Valve Close, ECB Solenoid (SLAFR) Valve Open, ECB Solenoid (SLAFR), ECB Solenoid (SLAFR2), ECB Solenoid (SLARL) Valve Close, ECB Solenoid (SLARL) Valve Open, ECB Solenoid (SLARL), ECB Solenoid (SLARL2), ECB Solenoid (SLARR) Valve Close, ECB Solenoid (SLARR) Valve Open, ECB Solenoid (SLARR), ECB Solenoid (SLARR2), ECB Solenoid (SLR) Valve Close, ECB Solenoid (SLR), ECB Solenoid (SLRFL) Valve Close, ECB Solenoid (SLRFL) Valve Open, ECB Solenoid (SLRFL), ECB Solenoid (SLRFL2), ECB Solenoid (SLRFR) Valve Close, ECB Solenoid (SLRFR) Valve Open, ECB Solenoid (SLRFR), ECB Solenoid (SLRFR2), ECB Solenoid (SLRRL) Valve Close, ECB Solenoid (SLRRL) Valve Open, ECB Solenoid (SLRRL), ECB Solenoid (SLRRL2), ECB Solenoid (SLRRR) Valve Close, ECB Solenoid (SLRRR) Valve Open, ECB Solenoid (SLRRR), ECB Solenoid (SLRRR2), ECB Solenoid (SMC), ECB Solenoid (SMC/SRC/SCC), ECB Solenoid (SMC1), ECB Solenoid (SMC2), ECB

Solenoid (SMC-SRC-SCC), ECB Solenoid (SRC), ECB Solenoid (SSA), ECB Solenoid (SSC), ECB Utility, ECB Warning Indicator, ECB Warning Light, ECB Warning, ECO Mode Indicator, ECONO Indicator, ECT PWR Indicator, ECT SNOW Indicator, EGR Cut VSV, EGR Step Position #2 Control, EGR Step Position, Electric Heater1, Electric Heater2, Electric Heater3, Electric Water Heater, Electric Water Pump, Electrical Fan, Emergency Call Cancellation, Emergency Exit Warning, Emission Pulse(R), Enforced Driving FHL Warning Trigger, EPB Auto OFF Indicator, EPB Control Switch, EPB Warning Light, EPS Warning, EV Drive Indicator, EV Mode Indicator, EV System Warning Lamp, Evaporator Magnetic Valve, Exhaust Bypass VSV Control, Exhaust Gas VSV Control, Exhaust Shutter VSV, Exhaust Solenoid1, Exhaust Solenoid2, Exhaust Switching VSV, EXO, Exterior Lighting SW, Extra High Beam, Face A/O Servo Pulse(D), Face A/O Servo Pulse(P), FL Gas Spring Switch Valve, FL Wheel Up/Down, Flash Handle Fold, Flash Handle Return, Fold/Unfold Mirrors, Foot A/O Servo Pulse(D), Foot A/O Servo Pulse(P), Foot Light, Forced Actuator Refresh, Four-Wheel Damping Force Full Hard, Four-Wheel Damping Force Full Soft, FR Gas Spring Switch Valve, FR Wheel Up/Down, Front Buzzer, Front Fog Lamp Indicator, Front Fog Light Relay, Front Fog Light, Front Foot Light, Front Gate Valve, Front Left Height Solenoid, Front Left Seat Blower, Front Left Seat Heater, Front Left Solenoid, Front Left Wheel Up/Down, Front Passenger Side Door Open, Front Passenger Side Seat Belt, Front Right Height Solenoid, Front Right Seat Blower, Front Right Seat Heater, Front Right Solenoid, Front Right Wheel Up/Down, Front Sliding Sunshade, Front Vertical Operation, Front Vertical, Front Washer Relay, Front Washer, Front Wheel Up by Accumulator, Front Wheel Up/Down, Front Wiper Hi Operation, Front Wiper Lo Operation, Front/Rear Buzzer, Fr-Seat Inside Transmitter, Fuel Cap Reminder Warning, Fuel Consumption Meter Operation, Fuel Cooler Solenoid Valve, Fuel Cooler VSV, Fuel Cut Bank 2 For Idle, Fuel Filler Opener, Fuel Filter Indicator, 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 Indicator (CNG), Fuel Indicator Lamp, Fuel Injector Timing, Fuel Leak Test, Fuel Lid Opener, Fuel Lid, Fuel Meter Operation (CNG), Fuel Meter Operation (Reductant), Fuel Meter Operation, Fuel Pressure Relief Valve Open, Fuel Pump - Duty Cycle, Fuel Pump Duty Control, Fuel Pump Duty, Fuel Pump Relay, Fuel Pump Single Phase Energization (U Phase), Fuel Pump Single Phase Energization (V Phase), Fuel Pump Single Phase Energization (W Phase), Fuel Pump Single Phase Energization, Fuel Pump Speed Control, Fuel Vapor-Containment Valve, Fuel Warning (CNG), Glass Hatch Open Operation, Glass Hatch Open, GLOW Warning, Go to Dealer Indicator, Go To Service Warning, Green Indicator, H/B Motor Relay, Hard Switch Lighting, Hazard Answer Back, Hazard, H-B Motor Relay, HCAC System VSV, HCAC VSV Check, HCAC VSV, Head Lamp Warning Indicator, Head Light Hi, Head Up Display Indicator, Headlamp Indicator, Headlight Cleaner, Headlight High Beam, Headlight Indicator, Headlight Leveling Indicator, Headlight Low Beam, Headlight Relay, Headrest Front-Rear, Headrest Motor, Heads Up Display Indicator, Heat Exchange Shut Valve, Heater Valve, Heating Electric Expansion Valve, Heating Three-way Valve, Height Control Prohibition Switch, Height High Indicator, Height High Warning, HICM System Check, High Beam Indicator, High Beam LH, High Beam RH, High Pressure Magnetic Valve, High Voltage Electric Heater, High-Beam Headlights, Hold Indicator, Hold Lamp, Hot A/M Servo Pulse(D), Hot A/M Servo Pulse(P), HV System Certification Mode Indicator, 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 Indicator, 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), HWD Relay, Hybrid Battery Charge, Hybrid Battery Heater Relay, Hybrid System Warning, Hydrogen Leak Indicator, Hydrogen Leak Warning, IAC Duty Ratio, ICS OFF Indicator, ICS OFF Warning, IG OFF P/W Control Permission Output, IGP Signal, Illuminated Entry System, Immobilizer Indicator, iMT Indicator (Green), iMT Indicator (Yellow), Indicat. A/T P, Indicat. Hold, Indicat. INTUITIVE P/A LCD, Indicat. Lamp O/D OFF, Indicat. Lamp VSC OFF, Indicat. Ready (EV), Indicat. VSC OFF, Indicate AFS OFF Lamp, Indicate. Pre-Collision, Indicator 2nd START, Indicator 4LO, Indicator 4WD AUTO, Indicator 4WD Lock, Indicator 4WD, Indicator AFS, Indicator Auto LSD, Indicator Brake Hold, Indicator Condition, Indicator CRAWL, Indicator Ctr DIFF LOCK, Indicator Downhill Assist Control, Indicator ECO, Indicator ECONO, Indicator EPS, Indicator EV Mode, Indicator For Lighting, Indicator GLOW, Indicator Height High, Indicator Key, Indicator Lamp Airbag, Indicator Lamp Back Door Open, Indicator Lamp Beam, Indicator Lamp Coolant Cool, Indicator Lamp Coolant Hot, Indicator Lamp Cruise, Indicator Lamp Doors All open, Indicator Lamp ECB, Indicator Lamp ECT PWR, Indicator Lamp ECT SNOW, Indicator Lamp Fr FOG, Indicator Lamp Head, Indicator Lamp Hood Door Open, Indicator Lamp Luggage Door Open, Indicator Lamp oil Level, Indicator Lamp Oil Pressure, Indicator Lamp Rr FOG, Indicator Lamp Rr Light, Indicator Lamp Slip, Indicator Lamp Tail, Indicator Lamp Washer, Indicator Lamp Water Level, Indicator Lithium Charge, Indicator MMT E Mode, Indicator MMT M Mode, Indicator Navi CVT, Indicator Oil Maintenance, Indicator Over Speed, Indicator Park, Indicator Ready(HV), Indicator Rear Differential LOCK, Indicator Rear Door LH open, Indicator Rear Door RH open, Indicator Ride Mode, Indicator SIL, Indicator Slip-OFF, Indicator Sport(CVT Sport), Indicator Tail Cancel, Indicator TEMS Comfort, Indicator Timing Belt, Indicator Tire Pressure Warning System, IndicatorHeadlamp Auto Leveling, IndicatorTEMS Sports, Initial Axis Adjust Value Display, Injection Timing #1, Injection Timing #2, Injection Timing #3, Injection Timing #4, Injection Timing #5, Injection Timing #6, Injection Timing #7, Injection Timing #8, Injection Timing Select Cylinder, Injection Volume Control, Injection Volume, Injection Way Control, Injector Compensation, Inside Handle Illumination, Inside Handle Light, Inside Luggage Tuner Power Supply ON, Inside Trunk/Backdoor Transmitter, Inspection Mode, Instrument Panel Illumination, Intake Air VSV Control, Intake Control VSV, Intake VSV 2 Control, Intelligent Parking Assist Indicator, Intercooler Water Pump Relay, Interior Illumination Light, Interior Illumination Light1, Interior Panel Relay, Interlocking Shift OFF Display, Interlocking Shift ON Display, Intrusion Sensor Power, INTUITIVE P/A LCD OFF Indicator, INTUITIVE P-A LCD Indicator, INTUITIVE P-A LCD OFF Indicator, Ion Generator, ISC Step Position, KDSS Indicator, KDSS Warning, Latch Release Test, Latch Release, LDA Control Indicator (Left), LDA Control Indicator (Right), LDA Control Indicator, LDA Indicator (White), LDA Indicator, LDA Steering Control Indicator, LDA Warning Indicator (Left), LDA Warning Indicator (Right), LDA Warning Indicator, LDA Warning, LED Headlamp Warning, Left High Beam, Left LDA Indicator, Left LDA Warning, Left Turn Signal Indicator, Left Turn Signal Lamp, Left Turn Signal Light, LH Courtesy Light, LH Mirror Up/Down, LH Motor, Lift Up Buckle, Lifter Operation, Light Control Switch (DOWN), Light Control Switch (Single), Light Control Switch (UP), Limited Power Indicator, Lithium Battery Check Indicator, Lithium Battery Hot Indicator, Lock Display, Lock Faulty Display, Low Pressure Magnetic Valve, Low Pressure Tank Solenoid, Low-Beam Headlights, Lower Air Mix (Driver Side), Lower Air Mix (Passenger Side), Lower Back, Lower Cushion, LPG Indicator, Luggage Mode Indicator (Yellow), Luggage Mode Indicator, Lumbar Bottom, Lumbar Lift, Lumbar Middle, Lumbar Slide, Lumbar Upper, M/H Bypass Cool Servo Pls, M/H Bypass Hot Servo Pls, Magnetic Clutch Relay, Magnetic Valve Operation, Main Battery(HV) Indicator, Maintenance Indicator Lamp, Maintenance Warning, Manual EVAP System Check, Manual SW Indicator, Master Warning, Memory Cancel Light, 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 Display 1, Meter Display 2, Middle Pressure Magnetic Valve,

Mirror Fold, Mirror Heater Relay, Mirror Heater, Mirror Left/Right, Mirror Return, Mirror Up/Down, MMT E Mode Warning, Motor Relay Control, Motor Relay, Multi Channel SW, 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), Multi Switch Operation, Navi CVT Indicator, Night Lighting, Night View Indicator, Not Available Display, O/D Cut Signal, 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 Meter Operation, Oil Pressure Warning, Open Door Warning, Ottoman Short-Long, Ottoman, Outside Trunk/Backdoor Transmitter, Over Speed Indicator, Overhead Tuner Power Supply ON, Overheat Display, P Range Display, P Range Indicator, P Supply for Steering Lock, Park Warning, Parking Brake Service Mode, Passenger Seat Operation Switch Indicator, Passenger Side Seat Belt Warning, PBD Buzzer, PBD Close SW Light, PBD Clutch, PBD Motor, PBD Open/Close, PCS Buzzer, PCS OFF Warning, PCS Warning Indicator, PCS Warning, Pedestrian Protection Warning, Pelvis Support Operation, PKB Full Release Control, PKB Haul Display, PKB Light, PKB Lock Control, PKB Lock1, PKB Release Control, PKB Release1, Power For BDoor Sens, Power For DR-Seat Sens, Power For Intrusion Sensor2, Power For PR-Seat Sens, Power For P-Seat Sens, Power For Tilt Sensor, Power Meter Operation, Power Running Board Forced Retracting, Power Window SW LED, Power Windows, Power/Engine SW Light, PPS Indicator, PPS Solenoid, PPS Warning, Pre Crash Brake OFF Light, Pre-Charge Pump, Pre-crash Indicator, Prohibit The Catalyst OT Misfire Prevent F/C, Prohibit the Catalyst OT Misfire Prevent Fuel Cut, Prohibit the Idle Fuel Cut, Protection Relay, Proximity Sound (Low Speed), Proximity Sound (Vehicle Stationary), Proximity Sound Indicator, Pr-Seat Outside Transmitter, Pr-Seat Select, PSD Buzzer, PSD Close, PSD Clutch, PSD Motor, PSD Open Signal, PSD Open, P-Seat Outside Transmitter, P-Seat Select, Pump Check Pattern, Pump Motor Relay, Purge Dilution Valve Duty Bank 2, R/L Selection SW Left Indicator Full, R/L Selection SW Left Indicator Red, R/L Selection SW Right Indicator Full, R/L Selection SW Right Indicator Red, Radar Cruise Approach Alarm Buzzer, Radar Cruise Indicator (Yellow), Radar Cruise Indicator, Radar Cruise Proximity Warning Buzzer, Radar Cruise Ready Indicator, Radar Cruise Stop Buzzer, Radar Cruise Stop Keeping Announce Buzzer, RCD OFF Indicator, RCTA Indicator, RCTA OFF Indicator, Ready Indicator, Rear A/M Servo Pulse(P), Rear A-C Mag Valve, Rear Air Mix Servo Target Pulse, Rear Blower Motor, Rear Buzzer, Rear Defogger, Rear DIFF LOCK Indicator, Rear Door Sunshade Down, Rear Door Sunshade Up, Rear Fog Lamp Indicator, Rear Fog Lamp, Rear Fog Light Relay, Rear Gate Solenoid, Rear Gate Valve, Rear Inner Wheel Control Indicator, Rear Inner Wheel Control Warning, Rear Left Height Solenoid, Rear Left Seat A/C Auto Indicator Full, Rear Left Seat A/C Auto Indicator Red, Rear Left Seat A/C Indicator Full, Rear Left Seat A/C Indicator Red, Rear Left Seat Blower, Rear Left Seat Heater, Rear Left Solenoid, Rear Left Wheel Up/Down, Rear Leveling Solenoid, Rear Light Indicator, Rear personal light, Rear Right Height Solenoid, Rear Right Seat A/C Auto Indicator Full, Rear Right Seat A/C Auto Indicator Red, Rear Right Seat A/C Indicator Full, Rear Right Seat A/C Indicator Red, Rear Right Seat A/C Level Indicator Red, Rear Right Seat Blower, Rear Right Seat Heater, Rear Right Solenoid, Rear Right Wheel Up/Down, Rear Seat Belt Warning, Rear Seat Belt, Rear Seat Lumbar Adjustment, Rear Side Buckle Light, Rear Washer Relay, Rear Washer, Rear Wheel Up by Accumulator, Rear Wheel Up/Down, Rear Wiper Operation, Rear Wiper Washer Motor Relay, Red Indicator, Reductant Consumption Warning, Reductant Discharge, Reductant Filling (Pressure Keep), Reductant Injection Valve, Reductant Pipe Heater, Reductant Pump Check (Backward), Reductant Purge, Reductant Quality Warning, Reductant Tank Heater, Reductant Warning Indicator, Reductant Warning, Refresh B1, Refresh B2, Refresh B3, Refresh B4, Refresh B5, Refresh BL1, Refresh BL2, Refresh BL3, Refresh BL4, Refresh BL5, Refresh BR1, Refresh BR2, Refresh BR3, Refresh BR4, Refresh BR5, Refresh C1, Refresh C2, Refresh C3, Refresh C4,

Refresh C5, Refrigerant Gas Volume Check, Regulator Shut Valve, Relay for Interior Light Auto Cut Function, Release Actuator, Release Display, Remote Engine Starter, Reverse Buzzer, Reverse Gear Signal, RH Courtesy Light, RH Mirror Right/Left, RH Mirror Up/Down, RH Motor, Ride Mode Indicator, Right High Beam, Right LDA Indicator, Right LDA Warning, Right Turn Signal Indicator, Right Turn Signal Lamp, Right Turn Signal Light, RL Wheel Air Bleeding Pattern, RL Wheel Up/Down, Rr Inner Wheel Control Indicator, Rr Inner Wheel Control Warning, RR Wheel Air Bleeding Pattern, RR Wheel Up/Down, Rr-Seat Inside Transmitter, SCV Duty Ratio, Seat Backrest Recline, Seat Belt Indicator, Seat Heater Active Level, Seat Memory Light, Seat Slide Operation, Secondary Air VSV Control, Security Horn 2, Security Horn, Security Indicator, Sensitivity Check, SET Indicator, Shift-By-Wire Warning, Shock Detection Unlock, Shoulder, Shut Off Valve, Side Back Support, Side Cushion Support, Side Mirror Foot Light, Side Support Operation, Signal Check, SIL Down Indicator, SIL Indicator (Down), SIL Indicator (Up), SIL Up Indicator, SLC Solenoid, Slide Roof, Slip Control System, Slip Indicator Light, Slip Warning, SLS Pressure, 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 Indicator, SOC Warning, Solenoid (SB), Solenoid Relay, Solenoid(SB), Solenoid(ST), Sound, Speed Alarm Buzzer, Speed Meter Operation, 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), Steering Heater Indicator (Yellow), Steering Heater, Step Light, Stoichiometric Ratio Combustion, Stop And Start OFF Indicator, Stop And Start ON Indicator, Stop Lamp Relay, Stop Lamp, Stop Light Relay, Stop light System Indicator Light, Stratified Charge Combustion, Stroke Simulator Cut Valve Pattern, 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), Sub Fuel Gauge Operation, Sub Fuel Tank VSV, Supercharger Control, Swirl Control VSV, 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 Operation, Tail OFF Indicator, Taillamp Indicator, Taillight Relay, Target Fuel Pressure Control, Telesco Operation, Temporary Vehicle Start Up, Test Mode, Test the Turbo Charger Step Motor #2, Test The Turbo Charger Step Motor Bank 1, Test The Turbo Charger Step Motor, Tilt Operation, Timer Switch (00), Timer Switch (H), Timer Switch (M), Timer Switch (Single), Timing Belt Warning, Tire Pressure Indicator, Tire Pressure Light, Tire Pressure Test Mode, Tire Pressure Warning System Indicator, Tow Haul Indicator, TPMS Warning Light, Trac Motor Relay, TRAC Solenoid (SPFL), TRAC Solenoid (SPFR), TRAC Solenoid (SRCF), TRAC Solenoid (SRCR), TRAC Solenoid (SRMF), TRAC Solenoid (SRMR), TRC OFF Indicator Light, TRC(TRAC) Motor Relay, TRC(TRAC) OFF Indicator Light, Trip Reset Switch, Trunk And Back-Door Open, Turbo Boost VSV Control, Turbo Boost VSV, Turbo Charger Step Motor, Turbo Pressure VSV, Turn Light LH Relay Operation, Turn Light RH Relay Operation, Turn Signal Indicator - Left, Turn Signal Indicator - Right, Upper Air Mix (Driver Side), Upper Air Mix (Passenger Side), Variable Intake VSV Control, Variable Shade Beam LH, Variable Shade Beam LH/RH, Variable Shade Beam LH-RH, Variable Shade Beam RH, Varial Intake VSV, Vehicle Approach Warning OFF Indicator, Vehicle Horn, Vehicle Proximity Notification System Warning, Vehicle Stop



Warning, VGRS Warning, Viscous Heater, VN Turbo Open, 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 Indicator Lamp, VSC OFF Indicator Light, VSC OFF Indicator, VSC TRC Indicator, VSC Warning Light, VSC/TRAC Off Indicator Light, VSC/TRAC Solenoid, VSC/TRC Indicator, VSC/TRC Solenoid (SMF), VSC/TRC Solenoid (SMR), VSC/TRC Solenoid (SPFL), VSC/TRC Solenoid (SPFR), VSC/TRC Solenoid (SRCF), VSC/TRC Solenoid (SRCR), VSC/TRC Solenoid (SRMF), VSC/TRC Solenoid (SRMR), VSC-TRAC Off Indicator Light, VSC-TRAC Solenoid (SMF), VSC-TRAC Solenoid (SMR), VSC-TRAC Solenoid (SPFL), VSC-TRAC Solenoid (SPFR), VSC-TRAC Solenoid (SRCF), VSC-TRAC Solenoid (SRCR), VSC-TRAC Solenoid (SRMF), VSC-TRAC Solenoid (SRMR), VSC-TRC(TRAC) Solenoid, VVT Exhaust Linear (Bank 1), VVT Exhaust Linear (Bank 2), VVT Linear (Bank 2), VVT System (Bank 2), VVTL System (Bank 1), VVTL System (Bank 2), 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), Water Temperature Meter Operation, Wing and Deflector Extend/Fold, Wing Angle, Wing Extend, Wing Fold, Wiper Motor Hi, Wiper Motor Lo, Wiper Power Relay, Wireless Buzzer

## New Coverage Details – USA European

### New Audi Coverage

#### 3 new Adjustment type special tests:

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

#### 10 new Actuation 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

### New BMW/Mini Coverage

#### 4 new Adjustment type special tests:

Reset Control Unit, Reset Undervoltage Counter, Slide Tilt Sunroof Initialization, Sun roof installation position

### New Fiat Coverage

#### 1 new Actuation type special tests:

Low Temp Passive Pump 2

### New Volkswagen Coverage

#### 20 new Adjustment type special tests:

Adaptation (10) / Long Adaptation (0A), Adaption After Adjustment, Basic Settings (04), Braking to Standstill, Collision Prevention 1 (Special Methods 1), Collision Prevention 2 (Front-Assist), Controller Coding (07), Hydraulic Brake Assistant (Special Methods 2), Locking for Coding/Flashing, Log-in(11) Adaptation(10), Log-in(11) Basic Settings(04), Log-in(11) Controller Coding(07), Log-in(11) or Coding II(11), Security Access (16) Adaptation (10) / Long Adaptation (0A), Security Access(16) Basic Settings (04), SWaP Function Crypt Data ID, SWaP Function Transfer Crypt Data, System Shut-off, Transfer Configuration, Variant Encoding

**7 new Actuation type special tests:**

Lens Heater Control Value, Output Tests (03), System Adjustment Control Value, System Adjustment, System Identification, Theft Protection Control Value, Theft Protection

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