

## Version 6.0

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### Overview

Version 6.0 update includes model year **2024** vehicle coverage and additional **ADAS** calibrations.

1,870 new special tests & 99 new system applications included in this update.

Software and coverage feature details provided in these release notes.

### ***New Coverage Highlights (Coverage details start on Page 2)***

#### **Model Additions:**

- **GM** – MY2024 Trax
- **Chrysler** – MY2021-MY2024 Grand Caravan (Canada)
- **Mitsubishi** – MY2018-MY2024 RVR (Canada)
- **Special Test Additions** – multiple brands
- **ADAS Coverage:**

#### **MY2018-2024 Additions:**

- **GM** – Coverage added for 2024MY Chevrolet Trax
- **Chrysler/Jeep** – Coverage added for 2021-2024MY Chrysler Grand Caravan (Canada)
- **Mazda** - Coverage added for 2022MY CX-3 (Canada)
- **Mitsubishi** - Coverage added for 2018-2024MY RVR models (Canada)
- **Porsche** – Coverage added for 2017-2021MY Panamera
- **Toyota** – Coverage added for 2020MY Yaris (Canada)

## ***New Coverage – USA Domestic***

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

- Added coverage for 53 new system applications

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

ABS Bleed Brakes, ABS Initialization, ABSO Initialization, Active Grill Shutter Replaced, Actuator Calibration, Auto Door Lock, Auto High Beam Demo Mode Test, Automated Bleed, Bleed Brakes, Brake Pedal Calibration, Brake Pedal Learn, Calibrate Liftgate, CAM Crank Relearn Routine, Change Country Code, Channel Output Test, Check PCM VIN, Clear All Learned Seat Parameters, Clear DEF Pump Learned Offset Values, Clear Engine Auto Restart Crank Counter, Clear Learning Value, Clear 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 Replaced, Coolant Three Way Valve, Diesel Particulate Filter Regeneration, 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 Seatbelt Minder Chime, Engine Idle Shutdown Feature Enable/Disable, EPB Service Procedures, Exhaust Phaser 1 Cleaning, Exhaust Phaser 2 Cleaning, Exit Shipping Mode, FCM Enable Emissions Rolls Test Mode, Fleet Pin Reset, Headlamp Leveling, High Temp Cabin Valve Cal/Test, HVAC Actuator Calibration Test, Idle Shutdown Timer Adjustment, Initialize ABS, Initialize Cluster Configuration w/o Odometer Affect, Initialize CVT, Initialize ORC, Injector Quantity Adjustment, Intake Phaser 1 Cleaning, Intake Phaser 2 Cleaning, Key FOB Identification, Key Fobs Linked To Memory, KeySense PIN Reset, Learn ETC, Light Rain Sensor Calibration, Low Temp Coolant Fill - Active Pump, Low Temp Coolant Fill - Passive Pump, Manual Logistic Mode Procedure Enable, Mass Air Flow Sensor Initialization, Microphone Output Short Test, Microphone Tone Test, Most Recent Cool Down Test Results, New Engine Installed, Non-Volatile Memory Reset, OCM System Verification Test, Oil Change Light Reset, Oil Change Monitor Type, Oil Life Restore, Program Engine Serial Number, Program Tire Sensor Identifications, Program Tire Size, Program Variant Coding, PTO RPM Adjustment, PTO Settings, Quick Learn, 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 Clutch Capacity Adaption, Reset ECU, Reset Enhanced Automatic Oil Change Indicator, Reset Error Free Operation Time to 40 Hours, Reset H2O Lamp, Reset High Voltage Cable Open DTC, Reset Injector Compensation Values, Reset Memory, Reset of Lambda Values, Reset of SCR Long Term Adaptation Factor, Reset Parameters to Default, Reset SCR Mileage Counter to 200 Miles, Reset VCM Adaptives, Reset Zero Fuel Quantity Calibration, Resolver Offset Learn, Rollover Detection, SCR DEF Tank Fluid Level Filter Reset, SCR System After ECU Replacement Procedure, SCR System Catalyst Reset, SCR System Dosing Module Replacement, SCR System Pressure Line Replacement, SCR System Tank or Pump Replacement, SCR System Wiring Harness Replacement, Sensor Wiring Test, Service Procedures, Set Max Cruise Speed, Set Max Vehicle Speed, 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, Turbo Actuator Pre-Align / Self Calibrate, Update Pressure Thresholds, Valve Body Solenoid Learn, VGT Learn, VGT Sector Gear Hysteresis Test, View/Reset Duty Cycle Maps, VIN Lock, Write Pinion Factor, Write VIN

#### **1266 new Actuation type special tests:**

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 State, 2-4 Solenoid, 2C Or 2-4 Solenoid, 2nd Gear Clutch Test (62TE), 2nd Gear Clutch Test (Non-RFE), 2nd Gear Clutch Test (RFE), 2nd Prime Gear Clutch Test (RFE), 3rd Gear Clutch Test (62TE), 3rd Gear Clutch Test (Non-RFE), 3rd Gear Clutch Test (RFE), 4 Low Indicator, 4C Solenoid State, 4C Solenoid, 4th Gear Clutch Test (62TE), 4th Gear Clutch Test (Non-RFE), 4th Gear Clutch Test (RFE), 4WD AUTO Indicator, 4WD Auto, 4WD Indicator, 4WD LED, 4WD Lock Indicator, 4WD Low, 4WD Neutral Indicator, 4WD, A/C Compressor Clutch Relay Control State, A/C Select, A/C, ABS fault Lamp, ABS Lamp, ABS Light, ABS, A-C Button, A-C Compressor Clutch Relay Control State, AC emergency shut off, AC Indicator, A-C INDICATOR, AC Off For Vehicle Manoeuvring, AC Request, A-C Request, A-C Select, ACC Enter In-Plant Mode, Activate Driver and Passenger Head Restraints, Activate Fuel Lift Pump, Active Exhaust Valve 1, Active Exhaust Valve 2, Active Grill Shutter Test, Actuate All Heaters, Actuate All Seat Heaters, Actuate All Vents, Actuator Test For SCR Device Relay, Actuator Test For Scrdevrly, Actuator Test Of Urea Back Flow Pump Actuator, Adjustable Pedal Disable Relay, Aftertreatment System Performance Test, Air Bag Lamp, Air Bag Light, Air Bag, Air Condition Relay Control, Air Condition, Air Dam Test, All Doors/Central Locks, All Doors-Central Locks, Alternator Current Limit, Alternator Field Control State, Alternator Field Duty Cycle, Alternator Field Duty-Cycle, Alternator Output Voltage Setpoint, Alternator Test, Alternator Voltage Set Point Value, Ambient Temperature, AMP Output Short Test, ANC Output Short Test, Antenna Power, APM Status, Approach Light State, Assist Call Button Green LED, Assist Call Button Red LED, Assist Call Green Day PWM, Assist Call Green LED Control PWM, Assist Call Green Night PWM, Assist Call Red Day PWM, Assist Call Red LED Control PWM, Assist Call Red Night PWM, Audio Routing, Audio Video Signal Detection, AUTO Button, Auto Indicator, AUTO LED, Auto Shutdown (ASD) #1 Relay Control State (Left Bank), Auto Shutdown (ASD) #2 Relay Control State (Right Bank), Auto Shutdown (ASD) Relay Control State, Auto Shutdown Relay Control State, Auxiliary Coolant Pump, Auxiliary Fuel Pump, Average Ambient Temperature, AWD System Switch, BACK button, Background LED Illumination Level, Background LED State, Backlight 1 Level, Backlight 2 Level, Backlight 3 Level, Backlight 4 Level, Backlight 5 Level, Backlight 6 Level, Backlight 7 Level, Backlight 8 Level, Backlight Control, Backlight Control-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: Driver Temp Down, Pass Temp Down, Backlighting: Driver Temp Up, Pass Temp Ujp., Backlighting: Knob Halo White Backlighting, Backup Alarm, Baggage Lamps, Balance Settings, Bass Settings, Battery Bad (Red), Battery Charge LEDs, Battery Coolant Heater, Battery Coolant Pump, Battery Good (White), Battery LED 1, Battery LED 2, Battery LED 3, Battery LED 4, Battery LED 5, Battery LED 6, Battery LED 7, Battery LED 8, Battery LED 9, Battery Voltage LEDs, Bed Lamp, Blind Spot Indicator State, Blower Motor Speed, Blue Cooled Seat Indicators, Blue Heated Seat Indicators, Blue Temperature Bar, Boost Low Pressure Actuator, Boost Pressure Actuator, Boost Pressure, Both Headlamps Max High Position, Both Headlamps Max Low Position, Brake Indicator, Brake Light, Brake State Output, Brake Switch, BRAKE Text, Brake Warning Lamp, BSM State, BTSI Coil Output Control, BTSI Control, BTSI Solenoid, Button 11 (Spare), Button 14 (Spare), Button 15 (Spare), Button 16 (Spare), Button 24 (Spare), Button 6 (Spare), Button 7 (Spare), Button 8 (Spare), Button Indicators, Buttons Control, Buttons/Encoder Control-Button 1 (Front Defrost), Buttons/Encoder Control-Button 10 (FCW), Buttons/Encoder Control-Button 12 (Back), Buttons/Encoder Control-Button 13 (Screen Off), Buttons/Encoder Control-Button 14 (ESP), Buttons/Encoder Control-Button 16 (PTS), Buttons/Encoder Control-Button 17 (Mute),

Buttons/Encoder Control-Button 18 (Enter), Buttons/Encoder Control-Button 19 (Rear Defrost), Buttons/Encoder Control-Button 2 (Driver Temp Up), Buttons/Encoder Control-Button 20 (Passenger Temp Down), Buttons/Encoder Control-Button 21 (Auto), Buttons/Encoder Control-Button 22 (Driver Temp Down), Buttons/Encoder Control-Button 23 (Recirc), Buttons/Encoder Control-Button 3 (Fan Off), Buttons/Encoder Control-Button 4 (Driver Temp Up), Buttons/Encoder Control-Button 5 (AC), Buttons/Encoder Control-Button 9 (Eco), Buttons/Encoder Control-Rotary 1 Detents (Volume), Buttons/Encoder Control-Rotary 1 Direction (Volume), Buttons/Encoder Control-Rotary 2 Detents (Fan), Buttons/Encoder Control-Rotary 2 Direction (Fan), Buttons/Encoder Control-Rotary 3 Detents (Tune), Buttons/Encoder Control-Rotary 3 Direction (Tune), Buttons/Encoder Control-Rotary 4 Detents, Buttons/Encoder Control-Rotary 4 Direction, Buzzer Control, Cabin Temperature Sensor, Cargo Lamp, Cargo Light Indicator, Cargo Light, 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, CHMSL Lamp, Close Door, Clutch Output, Clutch Signal To ECM Output Control, CNG Indicator, CNG Injector Relay, CNG Shut Off Relay, CNG/Gasoline Forced Fuel Type, Cold Start Aid Driver 1 Output, Cold Start Aid Driver 1, Compressed Natural Gas, Compression Test, Compressor Current, Control All Solenoids, Control the steering column, Convenience/Reading Lamp, Convenience-Reading Lamp, Coolant Bad Indicator, Coolant Fill Active Pump, Coolant Fill, Coolant Good Indicator, Coolant High Temperature Auxiliary Electric Pump, Coolant Temp LED 1, Coolant Temp LED 2, Coolant Temp LED 3, Coolant Temp LED 4, Coolant Temp LED 5, Coolant Temp LED 6, Coolant Temp LED 7, Coolant Temp LED 8, Coolant Temp LED 9, Coolant Temp LEDs, Coolant Temperature, Coolant Three Way Valve Test, Cooldown Test, Cooled EGR H-Bridge Valve System Test, Cooled Seat Driver High Indicator, Cooled Seat Driver Low Indicator, Cooled Seat Driver Med Indicator, Cooled Seat Passenger High Indicator, Cooled Seat Passenger Low Indicator, Cooled Seat Passenger Med Indicator, Cooler Bypass Valve, Cooling Valve Position, Courtesy Lamps, Crankcase Ventilation Heater, Crankcase Ventilation, Cyl 1 Deactivation Sol Cntrl State, Cyl 6 Deactivation Sol Cntrl State, Cyl 7 Deactivation Sol Cntrl State, Cylinder 1 Deactivation Solenoid Control State, Cylinder 4 Deactivation Solenoid Control State, Cylinder 4 Deactivation Solenoid, Cylinder 6 Deactivation Solenoid Control State, Cylinder 7 Deactivation Solenoid Control State, Cylinder Balance Test, DC Clutch Volume Index Check, Dedicated DRL Lamp Left, Dedicated DRL Lamp Right, DEF (Reductant) Pressure Line Heater Test, DEF (Reductant) Tank Heater Test, DEF Dosing Injection Quantity, DEF Reductant Doser Prime Override Test, DEF Reductant Doser Pump Override Test, Diesel Cabin Heat 1, Diesel Cabin Heat 2, Diesel Cabin Heat 3, Diesel Cabin Heater #1, Diesel Cabin Heater #2, Diesel Cabin Heater #3, Diesel Cabin Heater 1, Diesel Cabin Heater 2, Diesel Cabin Heater 3, Diesel Cabin Heater 4, Diesel Fuel Heater Relay, Digital Inputs1 High Memory, Disable Passenger Airbag Lamp Request, Display Start Inhibit Data, Door Ambient Light State, Door Courtesy Lamp State, Door Handle Power Control, Door Handle Verification Test, Double Start Override Relay, DPF Lamp, DPF Reset Option, D-Pillar Recline Switch forward, D-Pillar Recline Switch rearward, DR Solenoid, Driver Cooled Seat, 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 Status, Dual Speed Oil Pump, 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 Status, EC Mirror State, E-CALL Backlight LED, E-Call Button Backlight LED, E-Call Button

Green LED, E-Call Button Red LED, E-Call Green Day PWM, E-Call Green Night PWM, E-Call Green Status LED, E-Call Red Day PWM, E-Call Red Error LED, E-Call Red Night PWM, ECC Percent Max Torque, ECO Button, ECO Indicator, ECO ON-OFF Indicator, ECO, ECVD Compressor PWM Command, ECVD Compressor PWM Command~ECVD Compressor PWM Command, EGR Cooler Bypass, EGR DC Motor Sol Vlv Recir Vlv, EGR Duty Cycle, EGR Hi Pressure Motor Test, EGR Positioner, EGR Throttle Valve, EGR Valve Actuator Test, EGR Valve Replaced, EGR Valve Solenoid Duty Cycle, ELCM Forced Monitor Test, Electric Motor Control, Electric Thermostat Heater Solenoid Duty Cycle, Electric Thermostat Heater Solenoid, Electric Thermostat Heater, Electric Transmission Oil Pump, Electric Vacuum Pump, Electric Wastegate Valve, Electronic Stability Control Off, Electronic Stability Control, EMCC VLP Solenoid, Emergency Call Backlight LED PWM, Emergency Call Green LED PWM, Emergency Call Red LED PWM, 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 Temp LEDs, Engine Temperature, Engine Warm Up, Enter Button, Enter, EPB Failure Lamp, EPB Service, EPB Warning Light, EQ Loudness Test, ESC Disable Lamp, ESC Indicator, ESC Malfunction Lamp, ESC Off, ESC ON-OFF Indicator, ESC, ESCL 12 Volt Feed Control, ESCL Unlock Control, ESIM Forced Monitor Test, ESM Power Supply, ESP button, ESP Light, ETC Indicator Test, ETC Lamp, ETC System Test, ETC Throttle Follower Test, EVAP Purge Valve, Evaporator Sensor Temperature, Evaporator Temp Sensor, Evaporator Temperature Sensor, Exhaust Brake Auto Green, Exhaust Brake Yellow, Exhaust Brake, Exhaust Gas Cooler Bypass Valve, Exhaust Gas Recirculation Valve, Extend Mileage With SCR Active Faults, Faceplate Controls-Eject, Fade Settings, Fan Clutch PWM Duty Cycle Output, Fan Clutch Test, Fan Off Button, Fan Rotary Detents, FCW Button, Feature Pin, First Pass Cool Down Test Results, First Row Driver Seatbelt Buckle Sensor-Switch, First Row Passengers Seatbelt Buckle Sensor-Switch, Flipper Glass 2, Foot Well, Foot Well/Halo Lamps, Foot Well-Halo Lamps, Frequency Step Selection, Front Blower Control, Front Blower Motor, Front Blower Speed, Front Collision Off, Front Collision Off, FRONT DEFROST button, Front Defrost Indicator, Front Defrost, Front Fog Lamps, Front Fog, 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 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, Fuel Filter Heater, Fuel Filter Heating, Fuel filter water level warn lamp, Fuel Filter Water Level Warning Lamp, Fuel Injector 1 Control State, Fuel Injector 1, Fuel Injector 2 Control State, Fuel Injector 2, Fuel injector 3 Control State, Fuel Injector 3, Fuel Injector 4 Control State, Fuel Injector 4, Fuel Injector 5 Control State, Fuel Injector 5, Fuel Injector 6 Control State, Fuel Injector 6, Fuel Injector 7 Control State, Fuel Injector 7, Fuel Injector 8 Control State, Fuel Injector 8, Fuel Injector Balance, Fuel Injector Cleaning, Fuel Injector, Fuel Level LEDs, Fuel Metering Unit Actuator, Fuel Metering Unit, Fuel Pre Supply Pump, Fuel Pressure Override, Fuel Pressure Regulated O/P (Bar), Fuel Pressure Regulator Valve, Fuel Pressure Regulator, Fuel Pump Relay Control State, Fuel Pump, Fuel System Run Up Test, Functional LED Illumination Level, Functional LED State, Gas Injector Relay, Gasoline Indicator, Gated Park ZFII Output Control, Gated Park ZFII Output, Gear Position, Gear Selection, Generator Ramp Time, Generator Speed Threshold, Glow Lamp, Glow Plug, Glow Relay, Grid Test, Head Rest Relay, Headlamp Washer, Heated Seat Driver High Indicator, Heated Seat Driver Low Indicator, Heated Seat Driver Med Indicator, Heated Seat LED, Heated Seat Passenger High Indicator, Heated Seat Passenger Low Indicator, Heated Seat Passenger Med Indicator, Heated Steering Wheel indicator, Heated Steering Wheel, Heated Steering Wheel~Heated Steering Wheel, HEV Belt-Driven Coolant Pump Clutch Relay, HEV Engine Aux Heater LIN Coolant Pump, HEV Engine Belt-Driven Coolant Pump Clutch Relay, HEV Fuel Tank Isolation Valve Solenoid, HEV TPIM Inverter LIN Coolant Pump, High Beam Indicator, High Beam Light, High Beam, High Pressure Fuel Rail Test, High Pressure Fuel System Test, High Speed Engine Cooling Fan Control, High Speed Fan, 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, Horizontal Motor Backward/Forward, Horn, HPCR Duty Cycle Output, HPCR Duty Cycle, HVAC Cool Down Test, HVAC Self Test, H-W Switched 12 V Supply, I/P Illumination, ICR-HCR Relay, Idle RPM Test, Ignition Coil 1, Ignition Coil 10, Ignition Coil 2, Ignition Coil 3, Ignition Coil 4, Ignition Coil 5, Ignition Coil 6, Ignition Coil 7, Ignition Coil 8, Ignition Coil 9, Ignition Run - Acc 1, Ignition Run - Acc 2, Ignition Run - Start, Ignition Run, Ignition RUN/ACC 1, Ignition RUN/ACC 2, Ignition RUN/START, Ignition RUN-ACC 1, Ignition RUN-ACC 2, Ignition RUN-START, Immobilizer Antenna Test, 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, Initiate P2BA9 SCR Refill Monitor, Injector Kill Test, Inlet Metering Valve, Inlet Valve FL, Inlet Valve FR, Inlet Valve Left Front, Inlet Valve Left Rear, Inlet Valve LF(Normally Open), Inlet Valve LR (Normally Open), Inlet Valve RF (Normally Open), Inlet Valve Right Front, Inlet Valve Right Rear, Inlet valve RL, Inlet Valve RR (Normally Open), Inlet valve RR, Input Test, Intake Air Throttle Actuator Test, Intake Air Throttle Actuator, Intake Manifold Short Runner Valve (SRV) Solenoid Control State, Intake Manifold Short Runner Valve Solenoid, Intake Manifold Tuning Valve (MTV) Solenoid Control State, Intake Manifold Tuning Valve Solenoid, Intake Port Shut Off, Intake Throttle Duty Cycle Output, Intake Throttle Duty Cycle, Inverter Enable Relay, Inverter Status Indicator, IOD RELAY ON LSD, I-P Illumination, IPC Self Test, IRCM Heater, IRCM Relay Unlock Control, ITOS - Cabin Temperature, Key Pad Back Lighting, Keypad Backlight Control, KeySense, KIN ACC LED State, KIN Antenna Power, KIN LED Control, KIN OFF LED State, KIN RUN LED State, KIN Start/Stop LED State, KIN Start-Stop LED State, Knob 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, Latch Motor Cinch Direction, Latch Motor Release Direction, LC Clutch Volume Index Check, LC Solenoid, LDP Solenoid, LDW Warning Indicator, Leak Detection Pump Forced Monitor Test, Leak Detection Pump, LED Control-LED 1 (Auto Control), LED Control-LED 2 (EBL), LED Control-LED 3 (Front defrost), LED Control-LED 4 (recirc), LED Control-LED 5 (A/C), LED Intensity Output, Left Rear Tail/Park Lamp, Left Air Catcher LED, Left Auxiliary High Beam, Left Backrest Heat Seat Linear PWM Request -Output, Left Cushion Heat Seat Linear PWM Request -Output, Left Day Light Lamp, Left Floor Duct Sensor, Left Front Fog Lamps, Left Front Park Lamp, Left Front Turn Lamp, Left Headrest Dump, Left HID Lamp, Left High Beam Shutter, Left High Beam, Left Low Beam, Left Panel Duct Sensor, Left Rear AUX Turn Lamp, Left Rear Fog Lamps, Left Rear Tail-Park Lamp, Left Rear Turn Lamp (BUX), Left Rear Turn Lamp, Left Rear Turn/Stop Lamp, Left Rear Turn-Stop Lamp, Left Reartail-Park Lamp, Left Recliner Switch, Left Reverse Lamp 2, Left Reverse Lamp State, Left Reverse Lamp, Left Seat Back Motor Adjustment, Left Seat Latch Motor Adjustment, Left Seat Stow Motor Adjustment, Left Side Markers, Left Signal Mirrors/Side Repeaters (BUX), Left Signal Mirrors-Side Repeaters (BUX), Left Signature Lamp, Left Solar Sensor Values, Left Trailer Tow Turn/Stop Lamp, Left Trailer Tow Turn-Stop Lamp, Left Turn Signal Indicator, Left Vent Seat Linear PWM Request -Output, LF Antenna Verification Test, License Plate Lamp WK -Right Rear Rail Lamp WD, License Plate Lamp, Lift Pump Relay, Liftgate Release Motor, Lin Module Data, 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 Temp Active Pump, Low Temp Passive Pump 1, Low Temp Passive Pump 2, Low Temp Passive Pump, Low-Reverse Solenoid, LR Clutch Volume Index Check, LR Solenoid, LSU Heater 1, Main Left Temperature Actuator Position, Main/Left Temp Selected, Main-Left Temp. Door Actuator Position,

Main-Left Temperature Actuator Position, Malfunction Indicator Lamp, Master ePT Wake Up Output 1, Master Ept Wake Up Output, Memory Seat ECU Self Test, Metering Unit Actuator, Metering Unit, Mid-Range Settings, MIL Lamp, Mirror Direction Control, Mirror Fold Window Control, Mirror Fold, 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, Mode 2 Actuator Position (Defrost Panel Door), Mode Selection, Mode, Motor A Control, Motor B Control, Motor Control Close Output, Motor Control Open Output, Motorized Thermistor-Cabin Temp, MS Solenoid, Multiair VVA Solenoid 1, Multiair VVA Solenoid 2, Multiair VVA Solenoid 3, Multiair VVA Solenoid 4, MUTE button, Mute Test, Mute, Neutral Gate Test (62TE), Neutral Gate Test (Non-RFE), Neutral Gate Test (RFE), Neutral LED, Neutral, NOx Sensor Replacement, O2 Heater Test, O2 Sensor Heater Bank1 Sensor1, O2 Sensor Heater Bank1 Sensor2, O2 Sensor Heater Bank2 Sensor1, O2 Sensor Heater Bank2 Sensor2, OBCM HW Wakeup Output, OBCM Pilot Switched 12V Reference, OBCM S2 Internal Switch, 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, Oil Pressure Bad, Oil Pressure Good, Oil Pressure Lamp, Oil Pressure LED 1, Oil Pressure LED 2, Oil Pressure LED 3, Oil Pressure LED 4, Oil Pressure LED 5, Oil Pressure LED 6, Oil Pressure LED 7, Oil Pressure LED 8, Oil Pressure LED 9, Oil Pressure LEDs, Open Door Test, Outlet Valve FL, Outlet valve FR, Outlet valve front left activation, Outlet valve front right activation, Outlet Valve Left Front, Outlet Valve Left Rear, Outlet Valve LF (Normally Closed), Outlet Valve LR (Normally Closed), Outlet valve rear left activation, Outlet valve rear right activation, Outlet Valve RF (Normally Closed), Outlet Valve Right Front, Outlet Valve Right Rear, Outlet valve RL, Outlet Valve RR (Normally Closed), Outlet valve RR, Over Drive Solenoid On Time, Over Drive Solenoid, Over-Drive Solenoid, Overdrive Switch Test (Non-RFE), OverDrive Switch Test (RFE), Overdrive Switch Test, Oxygen Sensor 1 Heater, Oxygen Sensor 1/1 Heater Control State, Oxygen Sensor 1/1 Heater Duty Cycle, Oxygen Sensor 1/2 Heater Control State, Oxygen Sensor 1/2 Heater Duty Cycle, Oxygen Sensor 1-1 Heater Duty-Cycle, Oxygen Sensor 1-2 Heater Duty-Cycle, Oxygen Sensor 2 Heater, Oxygen Sensor 2/1 Heater Control State, Oxygen Sensor 2/1 Heater Duty Cycle, Oxygen Sensor 2/2 Heater Control State, Oxygen Sensor 2/2 Heater Duty Cycle, Oxygen Sensor 2-1 Heater Duty Cycle, Oxygen Sensor 2-1 Heater Duty-Cycle, Oxygen Sensor 2-2 Heater Duty Cycle, Oxygen Sensor 2-2 Heater Duty-Cycle, Oxygen System Heater Test, Park Pawl Actuator Control, Parking Brake And Low Brake Fluid, Parttime LED, Passenger Airbag (PAB) Status, Passenger Airbag LED, Passenger Cooled Seat, 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, 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), Pilot Front (USV - Normally Closed), PL Solenoid Current, PLGM Chime Output, Pneumatic Intercooler Bypass, Pneumatic Waste Gate, Police Passenger Un-Lock Motor, Position Lamp Telltale, Position Lamp, Position Lights, Power (OFF), Power Down, Power Mirror Feed Relay Control, Power On and Disable User Inputs, PPPA ON-OFF Indicator, PPPA, Pressure Control Relief Valve (PCR - Normally Closed), Pressure Control Solenoid Valve, Pressure Regulator Valve, Pressure Value Correction Shut-Off, Pre-Supply Pump, Priming 1 (HSV Front, LPF Front -Normally Closed), Priming 1 (HSV LF-RR, LPF LF-RR -Normally Closed), Priming 2 (HSV Rear, LPF Rear -Normally Closed), Priming 2 (HSV RF-LR, LPF RF-LR -Normally Closed), Priming Front (HSV - Normally Closed), Proportional Purge Solenoid, Proportional Purge Solenoid., Proportional Surge Solenoid, PTC Cabin Heater 1 Actuation, PTC Cabin Heater 2 Actuation, PTC Cabin Heater 3 Actuation, PTC Heater Relay 1, PTC Heater Relay 2, PTC Heater Relay 3, PTO, PTS Button, PTS ON-OFF Indicator, PTS Switch Simulation, PTU Position, Puddle Lamp State, Pump Control, Pump, Purge Solenoid Duty Cycle, Purge Vapors Test, PWM Fan Actuation Test, Radiator Cooling Fan PWM Cntrl State, Radiator Cooling Fan PWM Control State,

Radiator Cooling Fan PWM Duty Cycle, Radiator Cooling Fan PWM Duty-Cycle, Radiator Cooling Fan Relay 1 Control State, Radiator Cooling Fan Relay 1,2,3 Control State, Radiator Cooling Fan Relay 2 Control State, Radiator Fan 1 Duty Cycle, Radiator Fan 2 Duty Cycle, Radiator Fan Duty Cycle, Radiator Jalousie ShutterPosition, Radiator-Condenser Cooling Fan Relay 1 Control State, Radiator-Condenser Cooling Fan Relay 2 Control State, Radio Volume, Radio, Rail Pressure Sensor Replacement, Rail Pressure, 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 Blend Door Output, Rear Blower Speed Output, Rear Blower Speed, Rear Blower State, Rear Defrost Button, Rear Defrost Indicator, Rear Driver Floor Duct Sensor Temperature, Rear Driver Panel Duct Sensor Temperature, Rear Fog Lamps, Rear Fog, Rear Heated Window, Rear Mode 1 Actuator Position, Rear Mode Door Output, Rear Wiper, RECIRC button, RECIRC Indicator, Recirc, Recirc. Door Actuator Position, Recirculation Door Actuator Position, Recirculation LED, Recirculation pump activation, Recirculation Pump, Recliner, Red Brake Lamp, Red Hazard Button, Red Heated Seat and Steering Wheel Indicators, RED Heated Seat Indicators, Red Temperature Bar, Redundant Ignition RUN/START Feed Output Control, Redundant Ignition RUN-START Feed Output Control, Remote Start Antenna Test, Reverse Gear Clutch Test (62TE), Reverse Gear Clutch Test (Non-RFE), Reverse Gear Clutch Test (RFE), Reverse Lockout Solenoid Control State, Reverse Lockout Solenoid, Right Air Catcher LED, Right Auxiliary High Beam, Right Backrest Heat Seat Linear PWM Request -Output, Right Cushion Heat Seat Linear PWM Request -Output, Right Day Light Lamp, Right Floor Duct Sensor, Right Front Fog Lamps, Right Front Park Lamp, Right Front Turn Lamp, Right Headrest Dump, Right HID Lamp, Right High Beam Shutter, Right High Beam, Right Low Beam, Right Panel Duct Sensor, Right Rear Fog Lamps, Right Rear Park Lamp, Right Rear Tail/Park Lamp, Right Rear Tail-Park Lamp, Right Rear Turn Lamp (BUX), Right Rear Turn Lamp, Right Rear Turn/Stop Lamp, Right Rear Turn-Stop Lamp, Right Reartail-Park Lamp, Right Recliner Switch, Right Reverse Lamp #2, Right Reverse Lamp 2, Right Reverse Lamp State, Right Reverse Lamp, Right Seat Back Motor Adjustment, Right Seat Latch Motor Adjustment, Right Seat Stow Motor Adjustment, Right Side Markers, Right Signal Mirrors/Side Repeaters (BUX), Right Signal Mirrors-Side Repeaters (BUX), Right Signature Lamp, Right Solar Sensor Values, Right Temp Actuator Position, Right Temp. Door Actuator Position, Right Temperature Actuator Position, Right Temperature Selected, Right Trailer Tow Turn/Stop Lamp, Right Trailer Tow Turn-Stop Lamp, Right Turn Signal Indicator, Right Vent Seat Linear PWM Request -Output, Right Vent Seat Linear PWM Request, Roller Learning Shut-Off, Rotary 4 Detents, Rotary 4 Direction, RT-LT Sidemarkers-RT-LT Applique Parklamps, SCR Inlet Temp Sensor Replacement, SCR Relay Actuation Test, SCREEN OFF button, Screen Off, SDAR Station Selection, Seat Belt Lamp, Seat Belt Light, Seat Belt, Seat Mode Switch Adjustment, Seat Position Recall, Seat Selector Switch Adjustment, Second Row Center Seatbelt Switch, Second Row Left Seatbelt Switch, Second Row Right Seatbelt Switch, Secondary Air Pump, Secondary Air Solenoid, Secondary Solenoid Current, Secondary/Thatchum Lock Motor, Secondary/Thatchum Un-Lock Motor, Secondary-Thatchum Lock Motor, Secondary-Thatchum Un-Lock Motor, Seek Status, Sensor Rolls Test, Separation Valve (SV - Normally Open), SERV LED, Service Lamp, Set Engine RPM 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, Snow Plow Left Turn Lamp, Snow Plow Park Lamps, Snow Plow Right Turn Lamp, Snow Plow Switch #1, Snow Plow Switch #2, Snow Plow Switch #3, Snow Plow Switch #4, Snow Plow Switch 1, Snow Plow Switch 2, Snow Plow Switch 3, Snow Plow Switch 4, Software Test, SPARE LED LAMP DRIVER, SPARE RELAY 1 LSD, SPARE RELAY 2 LSD, Speaker Quadrant Selection, Split Cooling Drive Duty Cycle, Sport ON-OFF Indicator, SRS Indicator Lamp Request, SRS Lamp, SRV Test, Start/Stop System, Starter Relay, Starter Solenoid (High), Starter Solenoid High, Starter Solenoid, 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 Valve actuator Test, Switch Illumination State, Switch On EPB Failure Lamp, Switch On EPB Function Lamp, System Wiring Test, Tail Gate Lock, Tail Gate Unlock, TCC Pressure Control Solenoid, TCM VIN Verification, Telltale ABS, Telltale Airbag, Telltale Brake, Telltale Charging, Telltale ESP, Telltale Fog Front, Telltale Glow Plug, Telltale High Beam, Telltale MIL, Telltale Seat Belt, Telltale Tire Pressure Monitor, Telltale Turn Left, Telltale Turn Right, Telltale - ESC Off, Telltale - ESC, Telltale - ESP Off, Telltale - Park, Telltale - Position Lamp, Telltale - Rear Fog, Telltale ESP/BAS, Telltale-Tire Pressure Monitor, Telltale-Tire Pressure, Telltale-Tow Mode, Temporary Remote Start Disable, 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 Actuator, Throttle Valve, Tilt Mirrors in Reverse, Timeout Time Flash To Pass, Timeout Time Paddle Shift Switches, Tire Pressure Monitoring, Tire Pressure, Tone Test, Topper Center Mounted Stop Lamp, TOPPER CHMSL, Tow-Haul Indicator, TOW-HAUL, 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, Transmission Component Tests, Transmission Verification Test, Treble Settings, Truck Bed Lighting Leds, Truck Cargo Lamps, Trunk/Flipper Glass Release Motor, Trunk-Flipper Glass Release Motor, Trunk-Liftgate Ajar, Tumble Generator Valve, Tuner Rotary Detents, Tuner Rotary Direction, Turbo/VGT Component Replacement, Turn Left, Turn Right, Turn Signal Lamp State, Twilight Sensor Value, UD Clutch Volume Index Check, UD Solenoid, UGDO Power Supply, Underdrive Solenoid, Under-Drive Solenoid, Unlock 1/Driver Lock, Unlock 1-Driver Lock, Unlock 2/Passenger Locks, Unlock 2-Passenger Locks, Unlock Run -Start, Unlock RUN-START, Urea (Reductant) Pressure Line Heater Actuation Test, Urea (Reductant) Tank Heater Actuation 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 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, Video Input, View Last Successful Remote Start Event Data, View Last VTA Trigger Cause Data, View Remote Start Abort Data, View Remote Start Inhibit Data, View Satellite Sensor Information, View VTA Enable Data, VLP Solenoid, Volume Rotary Detents, Volume Rotary Direction, VTA Indicator LED, VVA Solenoids Pre-Energization, VVL Service Test, VVT Exhaust Phaser 1 Actuator, VVT Exhaust Phaser 2 Actuator, VVT Intake Phaser 1 Actuator, VVT Intake Phaser 2 Actuator, VVT Tests, Wastegate Solenoid Control State, Wastegate Solenoid Duty Cycle, Water In Fuel, Water Pump Charge Air Cooling, 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 Hall Sense Supply, Window State, WK Head Rest Relay, Yellow A/C and Auto Indicators, Yellow Button Indicators, Yellow Lane Departure Warning Indicator, Yellow Rear Defrost Indicator, Yellow Recirc Indicator

## **General Motors Coverage**

- Added coverage for 20 new system applications

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

Automated Brake Bleed, Brake System Plunger Motor Position Sensor Learn, Brake System Plunger Pressure Rise Starting Point Learn, Configure New Module, Front Axle Brake Pad Life Monitoring Reset, Hands-Free Liftgate Sensor Control Module Calibration, Hybrid/Electric Vehicle Range Reset, Liftgate Maximum Open Position Learn, Park Brake Calibration, Passenger Presence Sensor Learn, Rear Axle Brake Pad Life Monitoring Reset, Remote Vehicle Speed Limiting Reset, Reset High Voltage Disable Request After Crash Event Detected, Steering Wheel Angle Sensor Centering, Steering Wheel Angle

Sensor Offset Calibration, Vehicle Dynamic Sensor Offset Calibration, WLAN Password Reset, Yaw Rate Sensor Learn

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

Battery Charger Control Module - Rail Overvoltage Exposure Reset, Brake Hydraulics Test, Deactivate Brake Boost System, Electronic Transmission Range Selection Request, Green Indicator, Hybrid/Electric Vehicle Battery Contactor Open Reason History Reset, Hybrid/Electric Vehicle Battery DC Charging Disabled Reset, Hybrid/Electric Vehicle Battery Interface Control Module Over Temperature Reset, Hybrid/Electric Vehicle Battery Interface Control Module Voltage Sensor Circuits High - Low Reset, Hybrid/Electric Vehicle Battery Pack Capacity Fast Learn, Hybrid/Electric Vehicle Coolant Heater - Rail Overvoltage Exposure Reset, Hybrid/Electric Vehicle Service Coolant Fill Request, Lane Departure Switch LED, Left Front Corner, Left Park Brake Actuator, Left Rear Corner, Lift Gate Module Open/Close Test, Master Cylinder Pressure Test Data, Object Detection Alert Indicators, Passenger Air Bag Off Indicator, Passenger Air Bag On Indicator, Passenger Seat Belt Reminder Indicator, Passenger Seat Belt Tension Sensor, Phone Call Test, Rear Cross Traffic Audible Alert, Red Indicator, Right Front Corner, Right Park Brake Actuator, Right Rear Corner, System Isolation / Impact Sensor Fault - Hybrid/Electric Vehicle Battery System Reset, Vehicle Health Data Upload

## ***New Coverage – USA Asian***

### ***Honda/Acura Coverage***

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

Disable Height Level Control, Enable Height Level Control, Height Sensor Articulation

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

Adjust Height Level, Ambience Valve Check, Deflating Air Spring and Reservoir Tank Into Ambience to the Target Pressure, Deflating Air Spring to Reservoir Tank, Deflating Reservoir Tank to the Target Pressure, Filling Air Spring, Measuring Air Suspension System, Start Service Mode, Stop Service Mode

### ***Hyundai/Genesis Coverage***

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

Activation Switch LED, All LEDs, Mirror LED Left, Mirror LED Right, O2 Heater Front (B1/S1)

### ***Kia Coverage***

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

Activation Switch LED, All LEDs On, All LEDs, Mirror LED Left State, Mirror LED Left, Mirror LED Right State, Mirror LED Right, O2 Heater Front (B1/S1)

### ***Mazda Coverage***

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

Brake Fluid Pressure Sensor Initialization, Calibration For Passenger Seat Sensor, Change Engine Oil Maintenance Monitor Setting, Coupling Calibration Data Writing, Engine Oil Life Reset, Engine Oil Press Sol. Valve - Oil deteriorate diagnostic reset, Lateral Acceleration Sensor Initialization, Longitudinal Acceleration Sensor Initialization, Reset KAM, Special Ignition ON, Tire Pressure Sensor Registration, Yaw Rate Sensor Initialization

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

Active Grill Air Shutter Position, Air Conditioning Compressor Cycling Switch, Alarm, All LCD Segments, All Warning Lamp and Indicator Lamp, Blower Motor Relay, Burglar Horn Relay, Control Request of Door Lock Relay to ESU, Control Request of Door Unlock Relay to ESU, Control Request of Reverse Lamp to ESU, Control Request of Room Lamp to ESU, Control Request of Trunk/Cargo Compartment Light to ESU, Control Request of Trunk/Liftgate Electric Latch Motor to ESU, Coupling Solenoid Duty Cycle, Desired RPM, Desired SEGRP Valve Position, DRL Control Request to ESU, Electric Oil Pump - Duty Cycle, Electric Oil Pump Relay, Electric Oil Pump, Engine Oil Press Sol. Valve - Event Data Recorder Set, EVAP Canister Purge Valve, EVAP Canister Vent Valve, FAN1 Control Signal, FAN2 Control Signal, FAN3 Control Signal, Front Fog Relay, Front Washer Control Request to ESU, Fuel Injector 1, Fuel Injector 2, Fuel Injector 3, Fuel Injector 4, Fuel Pump, Head Light Cleaner Relay, Headlight Hi Beam Control Request to ESU, Headlight Low Beam Control Request to ESU, Horn Relay, Inlet Valve Left Front, Inlet Valve Left Rear, Inlet Valve Right Front, Inlet Valve Right Rear, Intake Manifold Tuning Valve, KOEO Self Test, KOER Self Test, Maintenance Mode, On Demand Test, Outer Buzzer, Outlet Valve Left Front, Outlet Valve Left Rear, Outlet Valve Right Front, Outlet Valve Right Rear, Pressure Control Solenoid Current - Commanded, PTC Heater Status, Pump Motor Supply, Rear Defogger Relay, Rear Fog Lamp, Rear Wiper Control Request to ESU, Shift Solenoid 1 Current - Commanded, Shift Solenoid 2 Current - Commanded, Shift Solenoid 3 Current - Commanded, Shift Solenoid 4 Current - Commanded, Shift Solenoid ON/OFF, Speedometer, Stability Control Valve (Left Front / Right Rear), Stability Control Valve (Right Front / Left Rear), Stop Lamp Control, Tachometer, TNS Control Request to ESU, Torque Converter Clutch Solenoid Current, Touch Sensor Power (Left Front), Touch Sensor Power (Right Front), Traction Control Valve (Left Front / Right Rear), Traction Control Valve (Right Front / Left Rear), Variable Fan Duty Cycle, Vehicle Drive Device Function Test Mode, Wastage Valve Position

## ***Mitsubishi Coverage***

- Added coverage for 26 new system applications

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

Air Outlet CO Damper Position Reset, All Sensor Calibration, Emission Gas Mode, G Sensor Calibration, In/Out Select Damper Position Reset, Lateral G Sensor Calibration, Learning, Maintenance Reset, Master Cylinder Pressure Calibration, SAS Calibration, Test, Timing chain maintenance, Tire Pressure Sensor Registration, Zero Calibration and System Test

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

4WD Mode 2WD, 4WD Mode 4WD Lock, 4WD Mode 4WD, A/C Relay, ABS Warning Light, AFS OFF Indicator, AHB Indicator, Air Conditioning Switch Off, Air Conditioning Switch On, Air Conditioning Switch, Air Mix Damper Motor, Air Outlet CO Damper Bi-Level 1, Air Outlet CO Damper Bi-Level 2, Air Outlet CO Damper Bi-Level 3, Air Outlet CO Damper Defrost, Air Outlet CO Damper Defrost/Foot 1, Air Outlet CO Damper Defrost/Foot 2, Air Outlet CO Damper Defrost/Foot 3, Air Outlet CO Damper Face, Air Outlet CO Damper Foot, Air Outlet C-O Damper, ASC-TCL Failure Indicator, ASC-TCL OFF Indicator, ASC-TCL OP. Indicator, ASG Indicator, ASG OFF Indicator, AT Lock Up Open Off, AT Lock Up Open ON, A-T Lock Up Open Request, Brake Indicator, BSW Buzzer, BSW Indicator, BSW ON-OFF Setting, Charge Indicator, Chassis No VIN Information, Chassis No/VIN Writing, Condenser Fan, Condenser Fan: Off, Condenser Fan : 100%, Condenser Fan: 50%, Cruise Control Indicator, Driver Seatbelt Indicator, ECO Indicator, Engine Malfunction IND., Engine Running Injector Kill Test, Engine switch(Control), Engine switch(LED ON) Character, Engine switch(LED ON) Green, Engine switch(LED ON) Orange, Engine Switch(LED ON), Engine TCL Drive, ESS Test Mode, EVAP Emission Purge SOL Valve, EVAP Emission Ventilation SOL, EVAP Function Test, FCM Indicator, FCM OFF Indicator, FL Wheel ABS Drive, FL Wheel

TCL Drive, FR Wheel ABS Drive, FR Wheel TCL Drive, Front Blower Fan, Front Fog Light Indicator, Front Left Wheel ABS Drive, Front Left Wheel TCL Drive, Front Right Wheel ABS Drive, Front Right Wheel TCL Drive, Fuel Gauge, Fuel Pump, Headlight Auto leveling, High Beam Indicator, Idle Up Request, Idle Up Request: Off, Idle-UP Request High(Hot), Idle-UP Request High, Idle-UP Request Low(Hot), Idle-UP Request Low, Ignition Timing 5 BTDC, In/Out Select Damper Fresh, In/Out Select Damper Fresh:Rec=4:6, In/Out Select Damper Fresh:Rec=5:5, In/Out Select Damper Fresh:Rec=6:4, In/Out Select Damper Fresh:Recirc 7:3, In/Out Select Damper Fresh:Recirc 8:2, In/Out Select Damper Fresh:Recirc 9:1, In/Out Select Damper Recirc, Indicator2, In-Out Select Damper, Input Vehicle Speed, LDW Indicator: Standby Request, LDW Indicator: System Fail Req., LDW Indicator: TEMP. Fail Req., LDW Indicator: Warning Request, Left Rear Wheel ABS Drive, Left Rear Wheel TCL Drive, Meter Illumination, Meter Indication (BSW Status), Meter Indication (RCTA Warning), Mirror Indicator, Option Coding Information, Outer Buzzer Pattern6, Outer Buzzer Warning1, Outer Buzzer Warning2, Outer Buzzer, Output Buzzer Pattern 1, Output Buzzer Pattern 2, Output Buzzer Pattern 3, Output Buzzer Pattern 4, Output Buzzer Pattern 5, PA. Seatbelt Indicator, Passenger S SRS OFF Light, Passenger S SRS ON Light, Passenger SRS OFF light, Positionlight Indicator, PTC Heater - OFF, PTC heater 300W, PTC heater 540W, PTC heater 700W, PTC heater 940W, PTC Heater, PWM Radiator Fan, Radiator Fan High, Radiator Fan Low, RCTA Buzzer, Rear Defogger Switch Off, Rear Defogger Switch On, Rear Defogger Switch, Rear Fog Light Indicator, Rear PTC Heater, Right Rear Wheel ABS Drive, Right Rear Wheel TCL Drive, RL Wheel ABS Drive, RL Wheel TCL Drive, RR Wheel ABS Drive, RR Wheel TCL Drive, Speedometer, SRS Indicator, SRS Warning Light, Stoplight:ON, Tachometer, Theft Alarm, Tire Pressure Indicator, TSR Display Request, Turn Signal Indicator(LH), Turn Signal Indicator(RH), VVT Oil Control Valve, Wastegate Solenoid Valve

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

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

Cause of Auto Cancel 2, Cause of Auto Cancel 4, Cause of Auto Cancel 6, FEB Operation Mileage, Save/Write VIN Data, Tcu Activate Setting, VIN Registration, WRITE VIN(MANUAL INPUT), Write VIN

### **81 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, Active Pedal, ADAS Buzzer 2, ADAS BUZZER, BCI Warning Indicator, Brake Actuator, 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, Cause of Auto Cancel 1, DCA Indicator, Drive Mode Test, EAP SW LAMP, EAPM Warning Lamp, Electric Parking Brake Activation, Front Buzzer, Hazard Lamp, ICC Buzzer, ICC Warning Lamp, Indicator, Lane Departure W/L, LANE DEPARTURE W-L, LDP Buzzer, LDP ON IND, Ldp On Indicator, LDP Warning Indicator, LDP Warning Lamp, LDW On Indicator, LDW Warning Indicator, LDW Warning Lamp, LED, Lifting motor, Lumbar support (Up-Down) motor, Memory Indicator 1, Memory Indicator 2, MEMORY SW INDCTR, Meter Buzzer, Meter Lamp, MIRROR MOTOR LH, MIRROR MOTOR RH, Pedal Motor, RAB Warning Lamp (Malfunction), RAB Warning Lamp (Operation), RCTA-BSW Indicator, Rear Buzzer, Reclining motor, Release Hand Warning, SEAT LIFT, SEAT LIFTER FR, Seat Lifter Front, Seat Lifter Rear, SEAT LIFTER RR, SEAT LIFTER, Seat Reclining, SEAT SLIDE, Sliding motor, Speaker Mute Signal, Steering Reaction Force Activation, Stop Lamp, Switch Lamp, TELESCO MOTOR, Thigh support motor, Tilt Motor, TURN SIGNAL LAMP LEFT, TURN SIGNAL LAMP RIGHT, Vibration Motor, Warning System Indicator, YAW STEP L, YAW STEP R

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

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

Communication Remote Engine Starter

**4 new Actuation type special tests:**

Air Bypass Valve Bank 2, Automatic High Beam Operation, Meter Buzzer, PCS Buzzer

## ***New Coverage – USA European***

### ***Porsche Coverage***

**5 new Adjustment type special tests:**

Quickstart - Reset Of Adaption Values, Replace Control Unit: Transfer Configuration, Reset Frequency Counter, Reset of Adjustment/Calibration Values, Transfer Configuration

**43 new Actuation type special tests:**

5th Camera Activation Request Control Value 1, Activation Of Parking Spot Search Park Assist Control Value, Automatic Calibration Headlamp Test Mode Control Value, Button Automated Driving Lighting Test Control Value, Defined Segment Control Matrix Headlamp Left, Defined Segment Control Matrix Headlamp Right, Display For Lane Departure Warning Control Value, Display Road Sign In Dash Panel Insert Control Value, Display Road Sign In Dash Panel Insert, Dr Hazard Warn At Danger Coli Wt A Person Tst Ctrl Val, Driver Hazard Warning At Danger Of Collision With A Person Test, Front Parking Aid Loudspeaker Control Value, FV Safe State Simulation Control Value, Green Indicator Lamp For Lane Departure Warning Control Value, Green Indicator Lamp For Lane Departure Warning, Headlamp Left High Beam Segment Control Test Control Value, Headlamp Left Low Beam Segment Control Test Control Value, Headlamp Right High Beam Segment Control Test Control Value, Headlamp Right Low Beam Segment Control Test Control Value, Individual Segment Control Matrix Headlamp, Lane Departure Warning Indicator, Main Beam Activation Control Value, Main Beam Activation, Main Beam, Manoeuvre Light Request Control Value 1, Park Assist Activation Of Partner Control Units Control Value, Parking Aid Activation Control Value, Rear Parking Aid Loudspeaker Control Value, Reference Segment Control Matrix Headlamp Control Value, Reference Segment Control Matrix Headlamp, Steering Wheel Vibration Control Value, Steering Wheel Vibration, Swinging Logo Test Control Value 1, System Identification, Topview Camera Cleaning Request Control Value 1, TV Camera Activation Request Control Value 1, Warning Lamp For Adaptive Light Test Control Value, Warning Lamp, Windscreen Heater For Camera Control Value, Windscreen Heater For Camera, Windscreen Heater For Lane Departure Warning, Yellow Indicator Lamp For Lane Departure Warning Control Value, Yellow Indicator Lamp For Lane Departure Warning

