Version 4.6

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Overview

Version 4.6 contains new model year 2020 coverage for Nissan, as well as Special Test coverage for model year 2020 Ford and Toyota vehicles.

Corrected Wi-Fi connectivity with Comcast Routers.

QuickScan expanded to include GM and Nissan UDS protocols, expanded CAN and Keyword 2000 for Honda.

Over 1700 new special tests, 370 new systems, and 1000 vehicle to ECU combinations are included in this 4.6 update including software enhancements and other bug fixes.

Software and coverage feature details provided throughout these release notes.

New Coverage Highlights (Coverage details start on Page 2)

- **Ford** - New Special Test Actuation and Adjustment coverage for all 2020MY vehicles and systems
  - Added coverage for 84 new Adjustment type & 399 new Actuation type tests
- **Toyota** - New Special Test Actuation and Adjustment coverage for all 2020MY vehicles and systems
  - Added coverage for 220 new Adjustment type & 673 new Actuation type tests
- **Nissan** - New coverage for all 2020MY vehicles and systems
  - Includes 726 new vehicle & ECU combinations with 102 new systems
  - Added coverage for 220 new Adjustment type & 673 new Actuation type tests
  - Pre/Post Scan DTC support, Live Data, and Special Tests
New Coverage – USA Domestic

Chrysler/Jeep Coverage
- Added coverage for 186 new systems
- Added coverage for 278 new vehicle-ecu combinations

2 new Adjustment type special tests including:
- ADAS/Driver Assist - Camera and Radar Calibration, Camera Calibration

Ford Coverage
- Coverage for 2020MY Actuation and Adjustment type tests
- Added coverage for 6 new vehicle-ecu combinations

84 new Adjustment type special tests including:
- Safety/Airbag - Occupant Classification System Module (OCSM) Reset, Passenger System Reset/OCS Reset, Passenger Zero Seat Weight Test
- Suspension - Ride Height Calibration
- Steering - Pull Drift Compensation Reset, Reset the Power Steering Control Module (PSCM) Learned Values, Steering Motor Angle Trim, Steering Toe Adjustment, Steering Wheel Position Sensor Calibration
- Body Control - BCM Crash Status Reset, Disable/Enable Keyless Entry, Remote Keyless Entry (RKE) Frequency Selection, Reset The Body Control Module (BCM), TPMS Sensor Training Mode
- ADAS/Driver Assist - Front Camera Calibration for 2019 Expedition, Ranger and Navigator

399 new Actuation type special tests including:

- **Brakes/ABS** - Hydraulic Pump Motor, Left Front Dump, Left Front Isolation Valve, Left Front/Right Rear Traction Control Supply 1, Left Front/Right Rear Traction Control Valve 1, Left Rear Dump, Left Rear Isolation Valve, On Demand Test, Rear Stop Lamp, Right Front Dump, Right Front Isolation Valve, Right Front/Left Rear Traction Control Supply 2, Right Front/Left Rear Traction Control Valve 2, Right Rear Dump, Right Rear Isolation Valve

- **Instrument Cluster** - Lamp tests, Gauge tests, Segment tests, Button tests, Dimming Control, On Demand Test

- **Climate (HVAC)** - (A/C) Recirculating Servo Position Status, Air mode actuator, Blower Motor Speed, Driver Heated Seat, ECO Mode, Front Blower Relay, Left Blend Door Position, Max Defrost, On Demand Test, Passenger Heated Seat, Rear Defrost Heated Backlight, Right Blend Door Position, Stop-Start
- **Body Control** - Lamp and Buzzer/Warning tests, Door Lock tests, On Demand Test, Wiper tests, Turn Signal tests, Headlight tests
- **Others** - Tests for AUDIO FRONT CONTROL MODULE, DRIVER MULTI-CONTOUR SEAT, PASSENGER MULTI-CONTOUR SEAT, FRONT CONTROLS INTERFACE MODULE, FRONT CONTROLS INTERFACE B, STEERING COLUMN CONTROL MODULE, SEAT CONTROL MODULE G, SEAT CONTROL MODULE H, DRIVER DOOR MODULE, PASSENGER DOOR MODULE, DIGITAL SIGNAL PROCESSING, TRAILER MODULE

**General Motors Coverage**

8 new Adjustment type special tests including:

- Engine/PCM - Air Bleed
- ADAS/Driver Assist - Cancel Camera Learn, Clear Disable History Data, Vehicle Direction Camera Learn

**New Coverage – USA Asian**

**Mazda Coverage**

- Added coverage for 8 new vehicle-ecu combinations

8 new Adjustment type special tests including:

- Engine/PCM - Change Engine Oil Maintenance Monitor Setting, Engine Oil Life Reset

ADAS/Driver Assist - Forward Sensing Camera Calibration – Dynamic for 2020 models

**Nissan/Infiniti Coverage**

- New coverage for all 2020MY vehicles and systems
- Added coverage for 102 new systems
- Added coverage for 726 new vehicle-ecu combinations

81 new Adjustment type special tests including:

**ABS/Brakes** - Brake Operation, Brake Release, Decel G Sensor Calibration, Finish Brake Pad Replacement, Initialization Position Adjustment, Start Brake Pad Replacement, Steering Angle Sensor Adjustment, System Mode Change, Valve Calibration, Valve Check, Valve Flushing

223 new Actuation type special tests including:


**Transmission** - CLUTCH OPARATION TEST, GEAR ENGAGE TEST, Programming Cl Touch Point, Reverse Gear Reset Values Of Shift Operations, Speed Sensor Function, Stop Current Command


**Climate (HVAC)** - HVAC Test

**Body Control** - Activate the Starter Cut Relay, Answer Back With I-Key Unlock, Anti Key Lock In Function, As Fr Window, As Rr Window, Back Door/Trunk Lock Relay, Back Door/Trunk Unlock, Back Dr Open Warn, Battery Saver, Boot/Trunk Open, Door Lock, Door Lock Indicator, Door Warning Test, Dr Fr Window, Dr Rr Window, Fog lamp override, Fuel Lid Open Indicate, Head Lamp High, Head Lamp Washer, High Beam Lamp Test, Hydraulic Motor, ID REGIST WARNING, IGN KEY WARN ALM, Ignition Accessory Battery Saver, Indicator, Inside ANT Diagnosis, Inside Buzzer, Interior Lamp, Key Reminder Warn, LIGHT WARN ALM, Parcel Shelf, PBD, Power Slide Door, Power Sliding Door, PSD PBD Open Test, PTC Heater Relay 1, PTC Heater Relay 2, PTC Heater Relay 3, Rear Defogger, Rear Defogger Indicator, Retractable Mirror, Roof, Run Flat/T Warn Buzzer, Seat Belt Warn Test,
Short Cranking Output, Siren, Step Lamp Test, Theft Indicator, Trunk, Trunk/Back Door, Trunk/Glass Hatch, Valve, Vehicle Security Horn, Warning Lamp

Subaru Coverage
6 new Adjustment type special tests including:
- **Transmission** - Inspection Mode After ATF,T/M Exchange
- **ABS/Brake** - Clutch Engagement Point Adaptation
- **Climate (HVAC)** - Set Temperature Shift

11 new Actuation type special tests including:
- **Engine/PCM** - Control The VVT Linear (Bank1), Control The VVT Linear (Bank2), Control VVT Exhaust Linear (Bank1), Control VVT Exhaust Linear (Bank2)
- **Transmission** - Activate DS2 Solenoid
- **Climate (HVAC)** - Airmix Dr Act Trgt Open Angle (Pass), Auto Switch, Blower Fan Level Setting, In-Vehicle Air Temperature Setting

Toyota/Lexus Coverage
- Coverage for 2020MY Actuation and Adjustment type tests

220 new Adjustment type special tests including:
- **Engine/PCM** - Activate The EGR Valve Close Bank 1, Activate The VN Turbo Open Bank 1, Activate The VSV For Air Bleed Control, Air Bleed, Height Offset Rear Wheels, Injection Timing, Injection Timing Value, Pilot Injection Volume, Pilot Injection Volume Select Cylinder, Pilot Injection Volume Value
- **Hybrid** - Body Control with Torque Demand, EV Mode Cruising Range Reset
- **Suspension** - Height Offset Rear Wheels
- **Cluster** - Lamp/Indicator tests, Ambient Temperature Adjustment, Lane Change Flashing Times Adjust, Traffic Sign Recognition Animation Function
- **Climate (HVAC)** - Compressor Mode, Compressor/Air Inlet DEF operation, DEF(PSW/Lock) Mode Setting, Foot/DEF Auto Mode, Foot/DEF Automatic Blow Up Function, Set Temperature Shift
- **Others** - Tests for SEAT systems, SMART KEY, RAIN SENSOR, CLEARANCE WARNING, HEAD UP DISPLAY

673 new Actuation type special tests including:
- **Engine/PCM** - A/C Idle Up VSV, Activate DPF Rejuvenate (PM), Activate DPF Rejuvenate (S), Activate DS2 Solenoid, Activate ST Solenoid, Activate The Emergency Solenoid Valve, Activate the Engine Oil Pressure Control Valve, Activate The LPG Solenoid Valve, Activate The Pre-Stroke Control
Valve, Activate The Return Solenoid Valve, Activate The Slip Control System, Activate The Solenoid (SLC), Activate The Solenoid (SLG), Activate The Solenoid (Sc), Activate The Solenoid (Sp), Activate The VALVEMATIC After Warm Up, Activate The VALVEMATIC Before Warm Up, Activate The VN Turbo Cleaning, Activate The VSV For Swirl Control Valve, Auto Oil Supply System, Brake Ejector VSV, Check The Imbalance Cylinder, Control the ACIS VSV Motor Duty Ratio, Control The All Cylinders Fuel Cut, Control The All Cylinders Fuel Cut (CNG), Control The EGR Step Position Bank 1, Control The ETCS Open/Close Fast Speed, Control The ETCS Open/Close Slow Speed, Control The Injection Mode, Control The Injection Volume (CNG), Control The ISC Step Position, Control the Select Cylinder Fuel Cut, Control the Shift Area (CVT), Control the Target Fuel Pressure Offset, Control The VVT Linear (Bank 1), Control The VVT Linear (Bank 2), Control The Wastegate Valve Duty Ratio, Control VVT Exhaust Linear (Bank 1), Control VVT Exhaust Linear (Bank 2), Cylinder Compression Check, D-4S (A/F Control), D-4S (Fuel Cut), D-4S (Injection Volume), Delivery Heater, Diesel Throttle Target Angle Bank 1, DSU Solenoid, Electric Water Pump, Fuel Injector Timing, Fuel Pump - Duty Cycle, HCAC VSV Check, HICM System Check, Injection Timing Select Cylinder, Injector Compensation, Intercooler Water Pump Relay, O/D Cut Signal, Reductant Discharge, Reductant Filling (Pressure Keep), Reductant Injection Valve, Reductant Pipe Heater, Reductant Pump Check (Backward), Reductant Purge, Reductant Tank Heater, Regulator Shut Valve, SCV Duty Ratio, SLC Solenoid, Slip Control System, SLS Pressure, Solenoid (SB), Solenoid (ST), Test The Turbo Charger Step Motor, Test the Turbo Charger Step Motor #2, Test The Turbo Charger Step Motor Bank 1, Turbo Charger Step Motor, VN Turbo Open, VVT Exhaust Linear (Bank 2), VVT-iE Linear (Bank 2) Control, VVTL System (Bank 1)

- **Hybrid/Electric** - Accumulator Drive, Activate the Oil Pump (1000rpm), Activate the Oil Pump (500rpm), Activate the solenoid (Line Pressure), Activate the Water Heater, Cell Monitor Control, Compression Test, Control the Motor/Generator Cooling Oil Pump, Control The Shift Position, Control the Transmission Oil Pump, Cooling fan No.1+2 operation, Cranking Request, Electromagnetic Oil Pump, EV System Wakeup Control, FC Air Compressor, FC Stack Negative Relay, FC Stack Positive Relay, FC Water Pump, Forcible Stop of Inverter Drive, High Voltage Fuse Accumulated Load History Reset, Hybrid Battery Charge, Hydrogen Pump, Inspection Mode, Line Pressure Solenoid, Oil Pump, PFAN, Pinion Gear Plunger (Hood Close), PWM Output Test, Quick Charge Relay -, Quick Charge Relay +, Radiator Rotary Valve, Regenerative Solenoid RLY Operation, Regenerative Solenoid SOLF Operation, Regenerative Solenoid SOLL Operation, Regenerative Solenoid SOLP Operation, Regenerative Solenoid SOLR Operation, Starter (Hood Close), Starter Motor Drive Magnet Switch (Hood Close), Stop & Start Permit Cond (A/C), Stop & Start Permit Cond (ABS), Stop & Start Permit Cond (Engine), Stop & Start Precondition2 (Control), Temporary Vehicle Start Up

- **Transmission** - Activate DS2 Solenoid, Activate ST Solenoid, Activate the Clutch Stroke, Activate The Emergency Solenoid Valve, Valve, Activate the HPU Motor, Activate The Lock Up, Activate The LPG Solenoid Valve, Activate The Pre-Stroke Control Valve, Activate The Return Solenoid Valve, Activate The Slip Control System, Activate The VALVEMATIC After Warm Up, Activate The VALVEMATIC Before Warm Up, Control the Shift Area (CVT), Control the Shift Position 5 Speed, DSU Solenoid, DSU Solenoid, O/D Cut Signal, Reduced Accumulator Pressure, Release the Gear Stuck, Return Solenoid Valve, SCV Duty Ratio, SLC Solenoid, Slip Control System, SLS Pressure, Solenoid (SB), Solenoid (SB), Solenoid (ST), Target Clutch Control (Stroke Value), Target Shift Stroke Control

- **ABS/Brakes** - Cancel Communication Function Pausing, CDCM Firmware Update, ECB Main Relay, ECB Solenoid (SLA), ECB Solenoid (SLR), Emergency Call Cancellation, Motor Relay, PKB Full Release Control, PKB Lock Control, PPS Solenoid, Solenoid Relay, Stop light System Indicator Light, Stroke Simulator Cut Valve Pattern, Tire Pressure Indicator, TRAC Solenoid (SMC1), TRAC Solenoid (SMC2), TRAC Solenoid (SPFL), TRAC Solenoid (SPFR), TRAC Solenoid (SS), VSC/TRC Solenoid (SPFL), VSC/TRC Solenoid (SPFR)
• **Safety/Airbag** - Seat Belt Motor tests
• **Instrument Cluster** - Lamp tests, Buzzer tests, Fuel Gauge Operation tests, HV System Indicator tests, HV/EV System Indicator tests, Meter Display tests, Oil Pressure Meter Operation tests, SOC Gauge tests, Speedometer Operation tests, Sub Fuel Gauge Operation tests, Tachometer Operation tests, Volt Meter Operation tests, Water Temperature Meter Operation tests
• **Climate (HVAC)** - A/O Servo Pulse(Rr P), Battery Magnetic Valve, Dehumidification Magnetic Valve, Diffuse Pulse(R), Electric Water Heater, Emission Pulse(R), Evaporator Magnetic Valve, Heat Exchange Shut Valve, Heating Three-way Valve, High Pressure Magnetic Valve, Low Pressure Magnetic Valve, Magnetic Valve Operation, Oxygen Drive, Viscous Heater
• **Suspension** - Four-Wheel Damping Force Full Hard, Four-Wheel Damping Force Full Soft, Front Gate Solenoid, Front Leveling Solenoid, Rear Gate Solenoid, Rear Leveling Solenoid
• **Body Control** - Lamp and Buzzer/Warning tests, Fuel Lid Opener, Mirror Fold, Power Running Board Forced Retracting, Grill Shutter tests
• **Others** – Tests for SMART KEY, THEFT DETERRENT MODULE, ADAPTIVE FRONT LIGHTING SYSTEM, HEADLIGHT AUTO LEVELING

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