

Version 5.12

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Overview

Version 5.12 update includes model year **2023** vehicle coverage and additional **ADAS** calibrations.

Over 578 new special tests included in this update.

Software and coverage feature details provided in these release notes.

New Coverage Highlights (Coverage details start on Page 2)

MY2023 Additions:

- **Special Test Additions** – multiple brands
- **ADAS Coverage:**
 - **Ford** – E-350, E-450
 - **Genesis** – G80
 - **Honda** – Accord, CR-V, Pilot
 - **Infiniti** – QX55
 - **Lexus** – LS500, LS500h
 - **Nissan** – Pathfinder (MY2022 - 2023), Sentra (MY2020 – 2023)
 - **Toyota** – Sequoia

New Coverage – USA Domestic

Chrysler/Dodge/Jeep/Ram Coverage

21 new Adjustment type special tests:

Actuator Calibration, Calibrate Liftgate, Check PCM VIN, Clutch Sensor Calibration Mode, DTCM Replacement, EPB Service Procedures, Exhaust Phaser 1 Cleaning, Exhaust Phaser 2 Cleaning, Hard Stop Search, HVAC Actuator Calibration Test, Hydraulic Prove Out Test, Intake Phaser 1 Cleaning, Intake Phaser 2 Cleaning, Learn ETC, Motor Position Learn, Non-Volatile Memory Reset, Quick Learn, Range Position Sensor Reset, Reset Enhanced Automatic Oil Change Indicator, Seat Calibration, TLC Learn

424 new Actuation type special tests:

"EOBD" (Electronic On Board Diagnostic) failure indication, 2nd Row Blend Door 1, 2nd Row Blend Door 2, 2nd Row Blend Door 3, 2nd Row Blend Door 4, 2nd Row Center Seat Backrest Release Actuator, 2nd Row Headrest Release Switch, 2nd Row LT Easy Entry-Exit Switch 2, 2nd Row LT Latch Switch, 2nd Row LT Seat Backrest Release Actuator, 2nd Row LT Seat Easy Entry Release Actuator, 2nd Row LT Seat Fold Switch, 2nd Row LT Seat Headrest Release Actuator, 2nd Row Mode Door 1, 2nd Row Mode Door 2, 2nd Row RT Easy Entry-Exit Switch 2, 2nd Row RT Latch Switch, 2nd Row RT Seat Backrest Release Actuator, 2nd Row RT Seat Easy Entry Release Actuator, 2nd Row RT Seat Fold Switch, 2nd Row RT Seat Headrest Release Actuator, 2WD Rolls Mode, 2WD Test Mode, 3rd Row Fold-Unfold Switch 1 Left, 3rd Row Fold-Unfold Switch 1 Right, 3rd Row Fold-Unfold Switch 2 Left, 3rd Row Fold-Unfold Switch 3 Left, 3rd Row Fold-Unfold Switch 3 Right, 3rd Row Headrest Release Switch, 3rd Row Headrest Release, 3rd Row LT Recline Switch FWD, 3rd Row LT Recline Switch RWD, 3rd Row LT Seat Folding Motor 1, 3rd Row LT Seat Folding Motor 2, 3rd Row LT Seat Headrest Release Actuator, 3rd Row Mode Door 1 Actuator Position, 3rd Row Mode Door 2 Actuator Position, 3rd Row RT Recline Switch FWD, 3rd Row RT Recline Switch RWD, 3rd Row RT Seat Folding Motor 1, 3rd Row RT Seat Folding Motor 2, 3rd Row RT Seat Headrest Release Actuator, A/C Request, Abs Failure Indicator, ABS Failure Lamp, A-C INDICATOR, A-C Request, Actuate All Heaters, Actuate All Vents, Aero LED, Aero Level, Airbag failure indication, Airbag Fault Indicator, All LEDs On, Ambient Lamp, Antilock brake (ABS) failure indication, Approach Light State, AUTO Button, Auto High Beam Indicator, Auto Indicator, Auxiliary Coolant Pump, AVAC Motor Central Position, AVAC Motor Down Most Position, AVAC Motor Up Most Position, Backup Lamp Left, Backup Lamp Right, Balance Settings, Bass Settings, Battery Coolant Heater, Battery Coolant Pump, Blower Down Button, Blower Motor Speed, Blower Up Button, Brake Failure Indicator, Brake system failure indication [BRAKE], BSM State, BTSI, Buzzer Control, Cabin Temperature Sensor, Camera Washer, CEGR H-Bridge Valve Duty Cycle, Central high mounted Stop Light (CHMSL), Central Lock (Pass Side), CENTRAL LOCK PASSENGER, Channel 1 Audio Control, Channel 1 Audio Output Status, Channel 10 Audio Control, Channel 10 Audio Output Status, Channel 11 Audio Control, Channel 11 Audio Output Status, Channel 12 Audio Control, Channel 12 Audio Output Status, Channel 13 Audio Output Status, Channel 14 Audio Output Status, Channel 15 Audio Output Status, Channel 16 Audio Output Status, Channel 17 Audio Output Status, Channel 18 Audio Output Status, Channel 19 Audio Output Status, Channel 2 Audio Control, Channel 2 Audio Output Status, Channel 20 Audio Output Status, Channel 21 Audio Output Status, Channel 22 Audio Output Status, Channel 23 Audio Output Status, Channel 24 Audio Output Status, Channel 3 Audio Control, Channel 3 Audio Output Status, Channel 4 Audio Control, Channel 4 Audio Output Status, Channel 5 Audio Control, Channel 5 Audio Output Status, Channel 6 Audio Control, Channel 6 Audio Output Status, Channel 7 Audio Control, Channel 7 Audio Output Status, Channel 8 Audio Control, Channel 8 Audio Output Status, Channel 9 Audio Control, Channel 9 Audio Output Status, CHARGE PLUG LOCK, CHARGE PLUG UNLOCK, Charge Port Command CAN, Charge Port Command Hard Wired, Charge Port Request Tester, Check Engine (MIL)

Lamp, Compressor Cool Down, Compressor Current, Compressor Running, Control the steering column, Coolant High Temperature Auxiliary Electric Pump, Cooled EGR H-Bridge Valve System Test, Courtesy Lamp 2, Cushion Extender Motor, DEADLOCK-SECONDARY LOCK (FT), DEADLOCK-SECONDARY LOCK (RR), Defeat Engine ON, Diesel Fuel Heater Relay, Direct Backlight, Door Ajar Indicator, Door Handle Power Control, Door Open, Vehicle Does Not Lower, Door Puddle Lamp State, DOWN Select Button, Driver Door Ajar, DRIVER DOOR LOCK LED, Driver Door Lock-Unlock, Driver Temp Down Button, Driver Temp Up Button, DRIVER UNLOCK, DRL Lamp, DTCM Efficiency Position, Duty Cycle Purge Solenoid, EBD Warning Light, EC Mirror State, ECM WAKEUP, Electric Vacuum Pump, Emissions Failure Lamp, EMTC Encoder Power Return, EMTC Encoder Power Supply (5V), EPB Auto Apply Control, EPB Drive Away Control, EPB Failure Lamp, EPB Function Lamp, EPB Switch Function LED, ESC Failure Lamp, ESC OFF lamp, ETC Throttle Follower Test, Evaporator Sensor Temperature, External Temperature, Externally Controlled Variable Displacement (ECVD) Command (DC), FAD Power Output, FAD Request Output, Fade Settings, Fan Control, Fast Down Leveling Test, Fault Message F1 -Service Air Suspension, Fog Lamp, Freeze Current State, Frequency Step Selection, Front Defrost Indicator, Front Mode Door Actuator Position, Front Vertical Motor, Front Wiper Hi Speed, Front Wiper Low-Int Speed, Front-Rear Washer, Fuel Door Lock, FUEL DOOR UNLOCK, Fuel Injector 1 Control State, Fuel Injector 2 Control State, Fuel injector 3 Control State, Fuel Injector 4 Control State, Fuel Pump Relay Control State, GATED PARK RELAY, Haptic Motor, Head Rest Actuation, Headlamp Washer, Heated Steering Wheel PWM Control, Heater EBL, HEV Engine Belt-Driven Coolant Pump Clutch Relay, HEV Fuel Tank Isolation Valve Solenoid, High beam headlamp indication, High Beam Indicator, High Beam Light, Hood Ajar, Horizontal Headrest Motor, Horizontal Motor, Horn, HSD 21W 1, HSD 21W 2, HSD 21W 3, HSD 21W 4, HSD FOR LED 1, HSD FOR LED 2, HSD RELAY 1, HSD RELAY 2, HSD RELAY 3, HSD RELAY 4, HSD RELAY 5, HSD RELAY 6, HSD RELAY 8, HUD Lighting Level, HVAC A-C Indicator, HVAC AUTO Indicator, HVAC Front DEF Indicator, HVAC Mode Button, HVAC Rear DEF Indicator, HVAC REC Indicator, HVAC SYNC Indicator, In Motion Menu, Indicator Channel, Interior Ambient Lighting, Interior Convenience Lamps 2, Interior Convenience Lamps 3, Interior Convenience Lamps, Interior Panel Dimming Lamps 2, Interior Panel Dimming Lamps, Interior Vanity Lamps, Inverter, IP Run 1, IP Run 3, IP Run Start 1, IP Run Start 2, Keypad Backlight Control, KIN OFF LED, KIN RUN LED, KIN Start-Stop Button (SSB) LED, LED Intensity Output, Left Backup Lamp, Left Daytime Running Lamp, Left Front Fog Lamp, Left Front Park Lamps, Left Front Side Marker, Left Front Turn Signal, Left High Beam Lamp, Left High Beam Shutter, Left Low Beam-HID, Left Rear Door Lock-Unlock, Left Rear Fog Lamp, Left Rear Park Lamp, Left Rear Turn Lamp, Left Signature Lamp, Left Stop-Turn Lamp, Left Turn Light Status, Left turn signal lamp indication, Left Turn Signal Lamp, Level Not Permitted, License Plate Lamps, Load Level, Low Beam Light, Low Temp Passive Pump 1, Low Temp Passive Pump 2, Lower LED, Lowering, LR Door Ajar, LR DOOR LOCK LED, LSD FOR LED 3, Main-Left Temp. Door Actuator Position, Main-Left Temp. Door Position, Middle LED, Mid-Range Settings, Mirror Direction Control, Mirror Fold, Mirror Heat State, Mirror LED Left State, Mirror Right LED State, Mode Button, Mode Door 1 (Panel), Mode Door 2 (Defrost-Demist), Mode Door 3 (Floor), Mode Selection, Motor Brake State, OFF Button, Offroad Level 1, Offroad Level 2, Open-Close, OPTIONAL HSD 1 PWM, OPTIONAL HSD 2 PWM, ORC RELAY CONTROL, Oxygen Sensor 1-1 Heater Duty-Cycle, Oxygen Sensor 1-2 Heater Duty-Cycle, Park Lamp Rear Left, Park Lamp Rear Right, Park LED, Park Light, Park Mode Level, Park Mode Pending, Passenger Door Ajar, PASSENGER DOOR LOCK LED, Passenger Door Lock-Unlock, Passenger Temp Up Button, Pedals, Permanent Static System Fault, Purge Vapors Test, Radiator Cooling Fan PWM Control State, Radiator Cooling Fan PWM Duty-Cycle, Radio Mute Button, Radio Screen OFF Button, Radio Volume, Raising Lowering Interrupted, Raising, Rear Blower CFM, Rear Defrost Indicator, Rear Fog Light Status, Rear Heated Window, Rear Left Position Light Status, Rear Left Window Manual Mode, Rear Right Position Light, Rear Right Turn Lamp, Rear Right Window Manual Mode, Rear Vertical Motor, Rear Wiper, RECIRC Indicator, Recirc. Door Actuator Position, Recliner Motor, Reduce Speed, Reverse Gear Light Status, Right Backup Lamp, Right Daytime Running Lamp, Right Front Door Handle Power, Right Front Fog Lamp, Right Front Park

Lamps, Right Front Side Marker, Right Front Turn Signal, Right High Beam Shutter, Right High Beam, Right Low Beam-HID, Right Rear Door Handle Power, Right Rear Door Lock LED, Right Rear Door Lock-Unlock, Right Rear Fog Lamp, Right Rear Park Lamp, Right Signature Lamp, Right Stop-Turn Lamp, Right Temp. Door Actuator Position, Right Turn Light, Right turn signal lamp indication, Right Turn Signal Lamp, RPS Power Supply (5V), RR Door Ajar, Run Acc 2, Run, Run-Start 1, SDAR Station Selection, Seat belt unfastened Lamp, Seek Status Tuner AM-FM, Seek Status Tuner DAB, Seek Status, Self Test, Service Air Suspension, See Dealer Now -(Red Lamp), Short Term Control Motor Current, Side Marker, Smart Bar Command, Speaker Quadrant Selection, SRS Indicator Lamp Request, Standard Vehicle Level, Starter, Steering Column, Stop Light Status, Stop-Turn Lamp Left, Stop-Turn Lamp Right, SUNROOF MOTOR, Surge Solenoid Control State, System Disabled (Tire Jack Mode), System Temporarily Not Available, T-Case Motor Brake HSD Output, T-Case Motor Brake LSD Duty Cycle, T-Case Motor Direction, T-Case Motor Duty Cycle, Temperature Down Button, Temperature Up Button, Top LED, TPMS Generic Failure Lamp, TPMS, Transfer Case Clutch Torque, Transponder Antenna Power, Treble Settings, Trunk Door Handle Power, Trunk-Gate, Turn Light, Turn Signal Lamp State, UGDO, Under Inflation Lamp, Unlock Left Rear Door, Unlock Left Rear, Unlock Right Rear Door, Unlock Right Rear, Unlock RUN-START, UP Select Button, Vehicle Speed Output, Vehicle Speed-RPM, Vehicle Theft Alarm, Vertical Front, Vertical Headrest Motor, Vertical Rear, Video Input, VTA Lamp, VVT Exhaust Phaser 1 Actuator, VVT Intake Phaser 1 Actuator, Washer Camera, Window Hall Sense Supply, Window State, Windshield Heater Relay, Yellow Fault Lamp

Ford/Lincoln Coverage

2 new Adjustment type special test:

Reset the Power Steering Control Module (PSCM), Steering Angle Sensor Calibration

1 new Actuation type special test:

On Demand Test

General Motors Coverage

3 new Adjustment type special tests:

Configure New Module, Reset High Voltage Disable Request After Crash Event Detected, Yaw Rate Sensor Learn

4 new Actuation type special tests:

Number of Tanks Initialization, Passenger Air Bag Off Indicator, Passenger Air Bag On Indicator, Passenger Seat Belt Reminder Indicator

New Coverage – USA Asian

Honda Coverage

3 new Actuation type special tests:

Brake light relay test, Forced non assist mode, PAX System Warning Reset

Mitsubishi Coverage

13 new Adjustment type special tests:

ALC Setting, Blind Spot Detection Configuration, Blind Spot Detection Shut-Off Requester Test, 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, Front Camera Guidelines Correction, Lane Dep.Warning Camera Shut-Off Requ.Test, Lane Departure Warning Camera Configuration, Reset Adaption To Factory Setting, Reversing Camera Guidelines Correction, Steering Angle Initialization

70 new Actuation type special tests:

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

Nissan/Infiniti Coverage

12 new Adjustment type special tests:

Blind Spot Detection Configuration, Blind Spot Detection Shut-Off Requester Test, 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, Front Camera Guidelines Correction, Lane Dep.Warning Camera Shut-Off Requ.Test, Lane Departure Warning Camera Configuration, Reset Adaption To Factory Setting, Reversing Camera Guidelines Correction, Steering Angle Initialization

14 new Actuation type special tests:

Air Pump, Air/Liquid Pump Of Camera, ALL INDICATORS DRIVE, Door Mirror LED LH, Door Mirror LED RH, External Buzzer, Lane Departure Warning Display, LED LH INDICATOR, Left Exterior Mirror LED Test, READY Indicator Lamp, Right Exterior Mirror LED Test, Warning Buzzer, Washer Fluid Pump Relay, Yellow Lane Dep.Warng.Indic. Lamp

Toyota/Lexus Coverage

9 new Actuation type special tests:

Cylinder Balance #1, Cylinder Balance #2, Cylinder Balance #3, Cylinder Balance #4, Cylinder Balance #5, Cylinder Balance #6, Cylinder Balance #7, Cylinder Balance #8, Number of Tanks Initialization

New Coverage – USA European

Audi Coverage

2 new Actuation type special tests:

Segment Test Color, Segment Test Control Value Color

Volkswagen Coverage

2 new Actuation type special tests:

Segment Test Color, Segment Test Control Value Color

