

## Version 4.12

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### Overview

Version 4.12 update includes updates to model year 2021 vehicles as well as function additions to previous model year vehicles. 244 new special tests and 1041 new system applications are included in this update.

Software and coverage feature details provided throughout these release notes.

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

- **Ford** – Additional new coverage for some 2021MY vehicles and systems
- **Toyota** – Additional new coverage for some 2021MY vehicles and systems
- **Nissan** – Additional new coverage for some 2021MY vehicles and systems
- **Honda** – Additional new coverage for some 2021MY vehicles and systems
- **Mazda** – Additional new coverage for some 2021MY vehicles and systems
- **Hyundai** – Additional new coverage for some 2021MY vehicles and systems
- **Kia** – Additional new coverage for some 2021MY vehicles and systems
- **Mitsubishi** – Additional new coverage for some 2021MY vehicles and systems
- **BMW** – Additional new coverage for some 2021MY vehicles and systems
- **Land Rover** – Additional new coverage for some 2021MY vehicles and systems
- **Special Test Additions** – multiple brands
- **ADAS Coverage:**
  - **BMW** – Blindspot, Front Camera, Surround View Camera
  - **Audi** – Front Camera
  - **GM** – Front Radar
  - **Ford** – Blindspot, Front Camera, Front Radar, Surround View Camera
  - **Toyota** – Blindspot, Front Radar, Surround View Camera

### ***Software Improvements / Bug Fixes***

- Added AutoID VIN read support for newer Fords (2021+)
- Nissan DDL2 Quick Scan improvements

## ***New Coverage – USA Domestic***

### ***Chrysler/Jeep Coverage***

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

HVAC Door Recalibration, KeySense PIN Reset, Reset Parameters to Default

#### **2 new Actuation type special tests including:**

Proportional Surge Solenoid, UConnect Live Apps Installation

### ***Ford Coverage***

- Added coverage for 99 new system applications

#### **4 new Adjustment type special tests including:**

Electronic Integrated Park Brake - Initialization, Electronic Integrated Park Brake - Service Tools, Climate Control System Actuators Calibration, Suspension Height Sensor Calibration

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

Brushless Motor Pump Request, Cool Command - Driver Seat, Cool Command - Passenger Seat, Heat Command - Driver Seat, Heat Command - Passenger Seat, Temperature Off Command - Driver Seat, Temperature Off Command - Passenger Seat, DC/DC Enable

### ***General Motors Coverage***

#### **8 new Adjustment type special tests including:**

Tire Size Calibration, Calibrate Trim Height, Transmission Clutch 1 Return Spring Learn, Transmission Clutch 1 Volume Learned, Transmission Clutch 2 Volume Learned, Transmission Clutch 3 Volume Learned, Transmission Clutch 4 Volume Learned, Transmission Clutch 5 Volume Learned

#### **98 new Actuation type special tests including:**

Front compartment lid open, Left Front Shock Absorber Actuator, Left Rear Shock Absorber Actuator, Right Front Shock Absorber Actuator, Right Rear Shock Absorber Actuator, Active Grille Air Shutter System, Charge Air Cooler Coolant Pump Speed, Cylinder 1 Injector Flow Identifier, Cylinder 2 Deactivation Solenoid Value, Cylinder 2 Injector Flow Identifier, Cylinder 3 Injector Flow Identifier, Cylinder 4 Injector Flow Identifier, Cylinder 5 Injector Flow Identifier, Cylinder 6 Injector Flow Identifier, Cylinder Deactivation Control Valve 2, Cylinder Deactivation Control Valve 3, Cylinder Deactivation Control Valve 4, Cylinder Deactivation Control Valve, Cylinder Deactivation Exhaust Control Valve Position, Cylinder Deactivation, Engine Controls Ignition Supply Voltage, Engine Coolant Control Valve Actuator, Engine Coolant Control Valve Position, Engine Coolant Control Valve, Engine Oil Pressure Control Valve, Engine Oil Pressure., EVAP Purge Service Bay Test, EVAP Purge Solenoid Valve Bank 2, EVAP Purge Solenoid Valve Leak Test, Evaporative Emission Service Bay Test, Exhaust Camshaft Position Actuator Position Bank 2, Exhaust Camshaft Position Actuator Position, Exhaust Control Valve Position, Heated Oxygen Sensor Test, Heater Coolant Pump, Ignition Timing Retard, Intake Camshaft Position Actuator Locating Pin Ctrl Vlv Bank 2, Intake Camshaft Position Actuator Park Lock Solenoid Valve Bank, Intake Camshaft Position Actuator Position Bank 2, Intake Camshaft Position Actuator Position, Intake Manifold Runner Control Valve Actuator, Intake/Single Camshaft Position Act Locating Pin Ctrl Vlv Test, Intake/Single Camshaft Position Actuator Locator Pin Ctrl Valve, MAF Sensor Bank 1, MAF Sensor Bank 2, Mass Airflow Sensor, Sensor Supply Voltage, Starter Drive, Starter Motor, TAC Motor, Throttle Position Bank 2, Throttle Sweep Bank 2, Transmission Range Selector Controls

Backlight Dimming, Transmission Range Selector Controls Indicator Dimming, Turbo Charger / Super Charger Bypass Valve, Turbocharger 2 Wastegate Position, Turbocharger 2 Wastegate, Turbocharger Wastegate Actuator Bank 1, Turbocharger Wastegate Actuator Bank 2, Turbocharger Wastegate Actuator, Turbocharger Wastegate Position Bank 1, Turbocharger Wastegate Position Bank 2, Turbocharger Wastegate Solenoid Valve, Turbocharger/Supercharger 2 Bypass Valve, Wastegate Actuator, Remote Enable Circuit, Differential Clutch Control System Cleaning Procedure, Electronic Limited Slip Differential, Even Gear Clutch Control System Test, Even Gear Clutch Hydraulic Control System Cleaning Procedure, Even Gear Shift Fork Control System Test, Even Gear Shift Fork System Cleaning Procedure, Hydraulic System Leak Test, Limited Slip Differential Clutch Control System Test, Line Pressure Hydraulic Control System Cleaning Procedure, Line Pressure, Odd Gear Clutch Control System Test, Odd Gear Clutch Hydraulic Control System Cleaning Procedure, Odd Gear Shift Fork Control System Test, Odd Gear Shift Fork Hydraulic Control System Cleaning Procedure, Shift Fork 5, Synchro Selector Valve Control System Cleaning Procedure, Transmission Control Solenoid Valve 10 Current, Transmission Control Solenoid Valve 12 Current, Transmission Control Solenoid Valve 12, Transmission Control Solenoid Valve 13 Current, Transmission Control Solenoid Valve 13, Transmission Control Solenoid Valve 14 Current, Transmission Control Solenoid Valve 14, Transmission Control Solenoid Valve 15 Current, Transmission Control Solenoid Valve 15, Transmission Control Solenoid Valve 16 Current, Transmission Control Solenoid Valve 16, Transmission Control Solenoid Valve 9 Current, Transmission Fluid Pressure Actuator, Transmission Park Lock Command, Transmission Park Lock Control System Test, Transmission Park Value Lock Solenoid Actuator

## ***New Coverage – USA Asian***

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

- Added coverage for 22 new system applications

### ***Hyundai Coverage***

- Added coverage for 100 new system applications

#### **3 new Adjustment type special test including:**

ESC Variant Coding, AT Adaptation Mode, Part replacement (Power steering motor)

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

Foot Lamp Output(Optional), Heated Handle Indicator(Optional), Heated Handle Output(Optional), Rear Fog Lamp Relay (Option), Auto Cut Relay, Driver Door Unlock Relay (Option), Start Inhibit Relay (Option)

### ***Kia Coverage***

- Added coverage for 78 new system applications

#### **3 new Adjustment type special test including:**

ESC Variant Coding, AT Adaptation Mode, Part replacement (Power steering motor)

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

Foot Lamp Output(Optional), Heated Handle Indicator(Optional), Heated Handle Output(Optional), Rear Fog Lamp Relay (Option), Auto Cut Relay, Driver Door Unlock Relay (Option), Start Inhibit Relay (Option)

## ***Mazda Coverage***

- Added coverage for 257 new system applications

### **2 new Adjustment type special test including:**

Steering Angle Sensor Initialization, Coupling Calibration Data Writing

### **4 new Actuation type special tests including:**

FAN2 Control Signal, Shift Solenoid G, Coupling Solenoid Duty Cycle, Air Mix Actuator

## ***Mitsubishi Coverage***

- Added coverage for 63 new system applications

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

- Added coverage for 37 new system applications

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

Horn-Multi Remote Ent, VEHICLE SECURITY HORN, Air Cond Rly, ADAS BUZZER, EAP SW LAMP

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

- Added coverage for 272 new system applications

### **4 new Adjustment type special tests including:**

Power Saving Wait Time(Out Of Entry Range), Automatic Door Unlock Function when D-Door Open, Slide Roof Open Warning Function, A/C Operation Limit History Counter Clear

### **14 new Actuation type special tests including:**

Fuel Filler Opener, Fuel Vapor-Containment Valve, Brake Cable Warning, Overhead Tuner, Activate The Heater Water Pump, DCM Firmware Update, Cylinder Balance #1, Cylinder Balance #2, Cylinder Balance #3, Cylinder Balance #4, Cylinder Balance #5, Cylinder Balance #6, Cylinder Balance #7, Cylinder Balance #8

## ***New Coverage – USA European***

## ***Alpha Romeo Coverage***

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

Reset Parameters to Default

## ***Audi Coverage***

### **21 new Actuation type special tests including:**

Secondary Air Injection Valve VW Common Control State, Function Lamp For Autohold Button Fun Lamp For Autohold Button, Function Lmp Parking Brake Button Fun Lmp Parking Brake Button, Indicator Lmp For Electromechanical PK Brk Ind Lmp For Electrom, Indicator Lmp Malf Electromechanical PK Brk Ind Lmp Malf Electr, Warning Beeper Warning Beeper, Coolant Change Over Valve 5 Test Control Value On Off, Coolant Valve 1 Test Control Value On Off, Coolant Valve 2 Test

Control Value On Off, Coolant Valve 3 Test Control Value On Off, Coolant Valve 4 Test Control Value On Off, Fan Control Relay Test Control Value On Off, Hyb EV Battery Pack Cool Ctrl Valve A Test Control Value On Off, Hyb EV Battery Pack Cool Ctrl Valve C Test Control Value On Off, Front Parking Aid Loudspeaker VW Common Control State, Parking Aid Activation VW Common Control State, Parking Aid Warning Lamp VW Common Control State, Rear Parking Aid Loudspeaker VW Common Control State, Digital Mirror Device Left Supply Test Control Value, Digital Mirror Device Right Supply Test Control Value

## ***BMW/Mini Coverage***

- Added coverage for 72 new system applications

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

Activate/Stop/Status DSC Bleeding(HL), Activate/Stop/Status DSC Bleeding(HR), Activate/Stop/Status DSC Bleeding(VL), Activate/Stop/Status DSC Bleeding(VR), ACC Sensor Adjustment, Adjust ACC Sensor, Start-up of Front Radar Sensors, Teach-in Parking Lock Module, Adjust Injectors - Injector Quantity Compensation-6 Cylinder

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

FBM 2 Sensoric Test, FBM 3 Sensoric Test, FBM 4 Sensoric Test, FBM 5 Sensoric Test, FBM 6 Sensoric Test, FBM 7 Sensoric Test, FBM 8 Sensoric Test, FBM 8 Test

## ***Fiat Coverage***

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

Reset Parameters to Default

### **2 new Actuation type special tests including:**

Proportional Surge Solenoid, UConnect Live Apps Installation

## ***Jaguar/Land Rover Coverage***

- Added coverage for 41 new system applications

### **1 new Actuation type special test:**

Malfunction Indicator Lamp - Glow Plug

## ***Volkswagen Coverage***

### **21 new Actuation type special tests including:**

Secondary Air Injection Valve VW Common Control State, Function Lamp For Autohold Button Fun Lamp For Autohold Button, Function Lmp Parking Brake Button Fun Lmp Parking Brake Button, Indicator Lmp For Electromechanical PK Brk Ind Lmp For Electrom, Indicator Lmp Malf Electromechanical PK Brk Ind Lmp Malf Electr, Warning Beeper Warning Beeper, Coolant Change Over Valve 5 Test Control Value On Off, Coolant Valve 1 Test Control Value On Off, Coolant Valve 2 Test Control Value On Off, Coolant Valve 3 Test Control Value On Off, Coolant Valve 4 Test Control Value On Off, Fan Control Relay Test Control Value On Off, Hyb EV Battery Pack Cool Ctrl Valve A Test Control

Value On Off, Hyb EV Battery Pack Cool Ctrl Valve C Test Control Value On Off, Front Parking Aid Loudspeaker VW Common Control State, Parking Aid Activation VW Common Control State, Parking Aid Warning Lamp VW Common Control State, Rear Parking Aid Loudspeaker VW Common Control State, Digital Mirror Device Left Supply Test Control Value, Digital Mirror Device Right Supply Test Control Value

