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Overview

The new version 4.2.1.6 contains new coverage additions and bug fixes. Highlights shown below of new special tests and performance enhancements as requested by technicians. Many more included in the software update that are not listed.

New Coverage - Summary

- **New Special Functions:**
 - **BMW/Mini** – over 160 new functions such as Battery Replacement, Delete Adaptations, Injector Adaptation, MSA Starter Exchange/Reset, and more
 - **Mercedes** – over 130 new functions such as Steering Column Normalization, Test Values of Emissions, ESP Control Unit Calibration, Program Replacement Keys, and more
 - **VW / Audi** – Fuel Pump Adaptation, Calibration Seat Fan, Reset all counters, and more
 - **Chrysler/Jeep** – Brake Pedal Calibration, initialize ORC, and more
 - **Ford** – Brake Shift Interlock, Door Lock, Smart Window Control, and more
 - **GM** – ADAS – Vehicle Direction Camera Calibration, Cancel Camera Learn, and more
 - **Honda/Acura** – CVT Oil Pressure Value Reset, Steering Angle Sensor Setup, and more
 - **Hyundai** – HCU Air Bleeding Mode, Pressure Sensor Calibration, and more
 - **Mazda** – Line Pressure Solenoid, Shift Solenoid, EGR Valve Stepping Motor Position, and more
 - **Nissan/Infiniti** – Air Bleeding Line tests
 - **Toyota/Lexus** – Air Bleeding Line tests, Cylinder Compression Check, and more

New Coverage Details – USA Domestic

Chrysler/Jeep Coverage

2 new Adjustment type special tests including:

- **ABS** - Brake Pedal Calibration
- **Safety/Airbag** - Initialize ORC

6 new Actuation type special tests including:

- **Instrument Cluster** - Engine Temperature, KeySense, Low Fuel
- **Others** - Memory Seat ECU Self Test, Reset Automatic Windows

Ford Coverage

28 new Actuation type special tests including:

- **Body Control/GEM** - Accessory Delay Relay Circuit, Brake Shift Interlock, Door Lock tests, Floor Lamp Output Circuit, Fog Lamp, Interior Lighting Circuit, On Demand Test, Turn Signal tests, Headlight tests, Smart Window Control

General Motors Coverage

3 new Adjustment type special tests including:

- **ADAS/Driver Assist** – Vehicle Direction Camera Calibration, Cancel Camera Learn, Clear Disable History

4 new Actuation type special tests including:

- **ADAS/Driver Assist** – VIDEO PROCESSING CONTROL MODULE Show Current Camera View tests

New Coverage Details - USA Asian

Honda/Acura Coverage

7 new Adjustment type special tests including:

- **Transmission** - CVT Oil Pressure Learning Value Reset
- **Transfer Case** - Steering Angle Sensor Setup
- **ABS** - Air Bleeding For Repair
- **Safety/Airbag** - Pop Up Hood (PUH) Calibration, SWS Initialization

16 new Actuation type special tests including:

- **ABS** - Solenoid tests

Hyundai Coverage

6 new Adjustment type special tests including:

- **ABS/Brakes** - HCU Air Bleeding Mode, Longitudinal G Sensor Calibration(HAC/DBC Only), Pressure Sensor Calibration
- **Tire Pressure Monitor** - TPMS Mode Configuration, Vehicle Name Writing
- **Others** – Set the steering feel torque to zero

6 new Actuation type special tests including:

- **Engine/PCM** - Fan PWM, Turbo waste gate(WGT) valve
- **Others** - tests for INTEGRATED GATEWAY POWER CTRL

Mazda Coverage

24 new Actuation type special tests including:

- **Engine/PCM** - Camshaft Position Commanded Duty Cycle 1, EGR Valve Stepping Motor Position, Intake Manifold Tuning Valve
- **Transmission** - Line Pressure Solenoid tests, Shift Solenoid tests
- **ABS/Brakes** - Hydraulic Pump Motor, Solenoid tests
- **Others** - HEAD UP DISPLAY Maintenance Mode

Nissan/Infiniti Coverage

4 new Adjustment type special tests including:

- **ABS/Brakes** - Air Bleeding Line tests

Toyota/Lexus Coverage

4 new Adjustment type special tests including:

- **ABS/Brakes** - Air Bleeding Line tests

2 new Actuation type special tests including:

- **Engine/PCM** - Control the Shift Position 6 Speed, Cylinder Compression Check

New Coverage Details – USA European

Audi Coverage

7 new Adjustment type special tests including:

- **Engine/PCM** - Activate/Deactivate Start/Stop Function, Fuel Pump Adaptation
- **Climate Control/HVAC** - Air Conditioning Adaptation - Production Mode, Basic Setting A/C Actuator Motor In, Basic Setting A/C Flap Door End Stops, Calibration Seat Fan, Reset all counters

BMW/Mini Coverage

52 new Adjustment type special tests including:



- **Engine/PCM** - Adaption function for throttle valve, Adjust Fuel Consumption Display Correction Factor, Battery replacement, Bleed cooling system, Delete Adaptations, Injector adaptation, Knock Sensor Adaptation, Load Regulation Adaptation, MSA Starter Exchange/Reset, Reset adaptation parameters, Reset after changing NOx sensor, Reset fuel pressure adaptation, Reset injector adaptation values, Reset trim control adaptation, Throttle valve adaption, Reset AdBlue metering module adaptation
- **Transmission** - Gearbox Adaptation, Reset rear axle ratio factor, Transmission Control Unit - Oil Change
- **ABS/Brakes** – Bleed, Brake Line Connection
- **Safety/Airbag** - Seat Occupancy Detection, Front Passenger
- **Instrument Cluster** – Service Requirement Reset
- **Others** - Initialize Power Window Regulators, AUDIO SYSTEM tests

114 new Actuation type special tests including:

- **Engine/PCM** - Determine The Injector, Electric Fan Actuation, Evaluate the Battery State of Charge, Exhaust Flap, Fuel Pump, Fuel Quality Recognition, Injector (1-4) off (Engine Running Injector KILL Test), Injector (1-6) off (Engine Running Injector KILL Test), Injector (1-8) Off (Engine Running Injector Check Test), Injector B1 (1-3) off (Engine Running Injector KILL Test), Read Out Battery Status, Solenoid Valve - Tank Ventilation, Turbocharger Coolant Pump, Water Pump Control
- **Transmission** - Functional Display, Locator Lighting, Release of Manual Shift Gate, Solenoid Valve Shiftlock
- **ABS/Brakes** - ABS Pump Activation Test (5 seconds), Apply parking brake
- **Instrument Cluster** – Lamp/Indicator tests, Gauge tests, Self Test
- **Climate (HVAC)** - Activate additional Water pump, Activate Heated Rear Window, Actuate of the Blower Output Stage, FKA Blower, Flap Motors - Start Reference Run, Front Blower, Run in Protection for A/C Compressor
- **Others** – tests for CENTER ROOF, CENTRAL ELECTRONICS, PASSENGER SIDE JUNCTION BOX, AUDIO SYSTEM modules, MULTIMEDIA INTERFACE, NAVIGATION, FUNCTIONAL ROOF, HUMAN MACHINE I/F GRAPHICS

Mercedes Benz

28 new Adjustment type special tests including:

- **Engine/PCM** - Correction Programming of Ignition, Default Initialization, Reset Lambda Adaptation
- **Transmission** - Adaptation Via Engine Coolant Temperature, Adaptation Via Torque Ranges, Initial Test/ Oil Condition Check/ Oil Level Check, Read Adjust Value, Upshifts, Write Adjust Value
- **ABS/Brakes** - ESP Control Unit Calibration
- **Steering** - Normalization Of Steering Column,
- **Others** – Program The Replacement Keys, HEADLAMP XENON tests

112 new Actuation type special tests including:

- **Engine/PCM** - Boost Pressure Positioner, Charge Air Cooler - Circulation Pump, Divert Air Switchover Valve, Test Values Of Emissions Test
- **Transmission** - Shift Lever Switch Position, Switch Off Incline Recognition For Dynamometer Mode
- **Others** – tests for ELECTRIC PARKING BRAKE, OVERHEAD CONTROL PANEL, SAM MODULE, UPPER CONTROL PANEL, HEADLAMP XENON

Volkswagen Coverage

7 new Adjustment type special tests including:

- **Engine/PCM** - Activate/Deactivate Start/Stop Function, Fuel Pump Adaptation
 - **Climate Control/HVAC** - Air Conditioning Adaptation - Production Mode, Basic Setting A/C Actuator Motor In, Basic Setting A/C Flap Door End Stops, Calibration Seat Fan, Reset all counters
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