

Version 4.5

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Overview

Version 4.5 contains model year 2020 coverage for Ford and GM, and model year 2019 Mercedes vehicles including DTCs, Live Data and Special Tests.

Over 2000 new special tests, 3500 new systems, and 4500 vehicle to ECU combinations are included in this 4.5 update including software enhancements and bug fixes.

Software and coverage feature details provided throughout these release notes.

New Coverage Highlights (Coverage details start on Page 2)

- **Ford** - New coverage for all 2020MY vehicles and systems and 2019MY EcoSport, Expedition, Navigator, Ranger and Transit Connect
 - Added coverage for 1115 new vehicle & ECU combinations with 959 new systems
 - Pre/Post Scan DTC support, Live Data, and Special Tests – more to come in future releases
- **GM** - New coverage for 2020MY vehicles and systems
 - Added coverage for 2245 new vehicle & ECU combinations with 1677 new systems
 - Pre/Post Scan DTC support, Live Data, and Special Tests – more to come in future releases
- **Audi** - New coverage for Special Tests
 - Includes 704 Adjustment and 244 Actuation type tests
- **Mercedes Benz** - New coverage for all 2019MY vehicles and systems
 - Includes 1095 new vehicle & ECU combinations with 434 new systems
 - Pre/Post Scan DTC support, Live Data, and Special Tests – more to come in future releases
- **Volkswagen** - New coverage for Special Tests
 - Includes 700 Adjustment and 250 Actuation type tests

New Coverage – USA Domestic

Chrysler/Jeep Coverage

34 new Adjustment type special tests including:

- **Engine/PCM** - DPF Replacement, Diesel Particulate Filter Regeneration, Driving Regeneration Request, DTCM Replacement
- **Hybrid** - High Temp Cabin Valve Cal/Test, Low Temp Coolant Fill - Active Pump, Low Temp Coolant Fill - Passive Pump, Reset Clutch Capacity Adaption
- **ABS** - ABS Bleed Brakes, ABS Initialization, Bleed Brake Procedure
- **Instrument Cluster** - Enable/Disable Seatbelt Minder Chime, Reset Service Information, Reset service Oil (for only Twinair)
- **ADAS/Driver Assist** - Camera and Radar Calibration, Camera Calibration

44 new Actuation type special tests including:

- **Engine/PCM** – Cold Start Aid Driver 1 Output, Cylinder Balance Test, Fan Clutch PWM Duty Cycle Output, Fan Clutch Test, HPCR Duty Cycle Output, Initiate P2BA9 SCR Refill Monitor, Intake Throttle Duty Cycle Output, Lift Pump Relay, PWM Fan Actuation Test, RDM Fluid Level Check
- **Suspension** - Compressor Circuit Test, Disable Level Control, Spring Deflate to Atmosphere, Spring Deflate To Reservoir, Time Controlled Spring Fill
- **Climate (HVAC)** - EBL Indicator, EVAP Temp Target, Rear Blower Speed, Rear Blower State
- **Others** - tests for AUDIO, PARKTRONICS MODULE, TELEMATICS GATEWAY

Ford Coverage

- New coverage for all 2020MY vehicles and systems
- New coverage for 2019MY EcoSport, Expedition, Navigator, Ranger and Transit Connect
- Added coverage for 959 new systems
- Added coverage for 1,115 new vehicle-ecu combinations
- 348 new OBDII Mode 6 Parameter additions

6 new Adjustment type special tests including:

- **Engine/PCM** - Engine Oil Life Reset, Reset KAM
- **Brakes/ABS** - Valve Calibration
- **Body Control** - Battery Monitor System Reset
- **ADAS/Driver Assist** - LDWS Camera Alignment

General Motors Coverage

- New coverage for all 2020MY vehicles and systems
- Added coverage for 1,677 new systems
- Added coverage for 2,245 new vehicle-ecu combinations
- 525 new OBDII Mode 6 Parameter additions

11 new Adjustment type special tests including:

- **Transmission** - Transmission Clutch Volume Learn tests, Transmission Clutch Return Spring Learn tests
- **Brakes/ABS** - Automated Brake Bleed, Steering Wheel Angle Sensor Offset Calibration
- **ADAS/Driver Assist** - Vehicle Direction Camera Learn

New Coverage – USA Asian

Honda/Acura Coverage

- New coverage for 2017-2019MY Clarity
- Added coverage for 70 new systems
- Added coverage for 70 new vehicle-ecu combinations

Hyundai Coverage

4 new Adjustment type special tests including:

- **Others** – Power Steering Steering Angle Sensor (SAS) Calibration

Kia Coverage

4 new Adjustment type special tests including:

- **Others** – Power Steering Steering Angle Sensor (SAS) Calibration

Nissan/Infiniti Coverage

10 new Adjustment type special tests including:

- **Body Control** - Automatic Lock Setting, Door Lock / Unlock, Ignition Battery Saver Set, Illumination Delay Setting, Reset to Default Settings, Room Lamp Timer Setting, Tire Pressure Sensor Registration, Wiper Speed Setting

46 new Actuation type special tests including:

- **Body Control** - Lamp and Buzzer/Warning tests, Key Fob and Ignition tests, Door Lock tests, Wiper and Washer tests, Read Tire Id

Toyota/Lexus Coverage

3 new Adjustment type special tests including:

- **Engine/PCM** - CVT Oil Pressure Calibration
- **Safety/Airbag** - PCS Function ON/OFF State Stored, PCS Warning Timing State Stored 1

New Coverage – USA European

Alpha Romeo Coverage

8 new Adjustment type special tests including:

- **Engine/PCM** - Oil Change, DTCM Replacement
- **Instrument Cluster** - Reset Service Information, Reset service Oil (for only Twinair), Seat Belts Alarm Enable

5 new Actuation type special tests including:

- **Engine/PCM** - Cooling Fan Actuation, ESIM Test, On Demand Self Test
- **Others** - tests for AUDIO, TELEMATICS GATEWAY

Audi Coverage

704 new Adjustment type special tests including:

- **Engine/PCM** - AdBlue (SCR) Reset, Camshaft Adjustment tests, Charge Pressure Control, Diesel Particle Filter (DPF) Replacement, Differential Pressure Sensor Zero Compensation, Electronic Throttle Adaptation tests, Emission Reduction (EVAP Valve Test), Emission Reduction (Leak Diagnostic System), Emission Reduction (Secondary Air Injection) tests, Fuel Injection (Fuel Pump Adaptation), Fuel Injection (Fuel Supply System), Fuel Supply Pump Activation, Fuel Supply System (Fuel Pressure Reduction), Fuel Supply System (Intake Runner Flap Adaptation) tests, Idle Speed Adjustment, Ignition (Knock Sensor Test), Injector Calibration tests, Lambda Control (Aging Check) tests, Lambda Control (Catalytic Conversion) tests, Lambda Control (Sensor Exchange), Lambda Control (Sensor Readiness - After Catalyst), Lambda Control Shut-Off, Lambda Control Shut-Off, Pre-Glow Period, Servo Pump Load Calibration, Starting Torque Calibration, Transfer Configuration
- **ABS/Brakes** - Adjustment Of Brake Pressure Sensor, Adjustment Of Lateral Acceleration Sensor, Adjustment Of Longitudinal Acceleration Sensor, Adjustment Of Rotation Rate & Lateral/Longit. Acc. Sensor, Adjustment Of Steering Angle Sensor, Brake Assist, Brake Booster, Brake Disc Wiper (BDW), Brake System Bleeding, Close Rear Parking Brake (After Pad Change/Repair), Dynamic Steering Recommendation, Extended Electronic Differential Lock (XDS), Hill Hold Assist (HHA), Hydraulic Brake Assist (HBA), Hydraulic Unit Disconnecting Valve Adjustment, Hydraulic Unit Intake Valve Adjustment, Installation Park Steer Assist (PLA), Open Rear Parking Brake (Prior Pad Change/Repair), Overboost (OB)/Overload Operation, Tire Pressure Monitoring System (Tpms) Reset
- **Safety/Airbag** - Battery Separating Relay Deactivation, Component Protection (Vehicle Identification Number), Passenger Seat Occupation Recognition Sensor Deactivation, Learned Values (Vehicle Data), Seat Occupied Recognition Reset
- **Instrument Cluster** - Basic Distance Value for Inspection, Basic Distance Value for Oil Change, Basic Time Value for Inspection, Basic Time Value for Oil Change, Consumption Correction, Oil Minimum Detection, Oil Temperature/Level Sensor Installation, Speed Threshold, Tank Characteristic (Full Calibration)
- **Climate Control/HVAC** - Potentiometer And Flap Alignment

- **Suspension** - Front Wheel/Height Calibration tests, Rear Wheel/Height Calibration, Wheel/Height Calibration Confirmation
- **Steering** - Adjustment Of Steering Angle Sensor, Installation Dynamic Chassis Control (DCC), Installation Lane Assist, Installation Park Steer Assist, Steering Angle Sensor, Torque Steer Compensation (TSC)
- **Others** – Headlight Adjustment Position, tests for BATTERY REGULATION, CENTRAL COMFORT SYS, CENTRAL ELECTRICS, IMMOBILIZER

244 new Actuation type special tests including:

- **ABS/Brakes** – Activate ESP System/Function Test
- **Suspension** – Damper tests,
- **Instrument Cluster** - Segment Test
- **Climate (HVAC)** - A/C Compressor Regulator Valve, Air Flow Flap Control Motor, Air Recirculation Flap Control Motor, Central Flap Positioning Motor, Coolant Fan, Coolant Fan Control Module, Defroster Flap Control Motor, Display: Black Segments, Display: Red Segments, EVAP Temp Target, Fresh Air Blower, Heated Rear Window, Heated Seat Front Left, Heated Seat Front Right, Interior Temp Sensor Fan, Rear Blower Speed, Rear Blower State, Segment Test, Temperature Flap Motor Left, Temperature Flap Motor Right
- **Doors** - Central Locking Motors, Lighting/Illumination, Mirror Function Test, Mirror Heating, Window Regulator tests
- **Others** – tests for CENTRAL COMFORT SYS, CENTRAL ELECTRICS, HEADLIGHT

Fiat Coverage

7 new Adjustment type special tests including:

- **Engine/PCM** - DTCM Replacement
- **Instrument Cluster** - Reset Service Information, Reset service Oil (for only Twinair), Seat Belts Alarm Enable

3 new Actuation type special tests including:

- **Engine/PCM** - Cooling Fan Actuation, ESIM Test, On Demand Self Test
- **Others** - tests for AUDIO, TELEMATICS GATEWAY

Mercedes Benz Coverage

- New coverage for all 2019MY vehicles and systems
- Added coverage for 434 new systems
- Added coverage for 1,095 new vehicle-ecu combinations

Volkswagen Coverage

700 new Adjustment type special tests including:

- **Engine/PCM** - AdBlue (SCR) Reset, Camshaft Adjustment tests, Charge Pressure Control, Diesel Particle Filter (DPF) Replacement, Differential Pressure Sensor Zero Compensation, Electronic Throttle Adaptation tests, Emission Reduction (EVAP Valve Test), Emission Reduction (Leak

- Diagnostic System), Emission Reduction (Secondary Air Injection) tests, Fuel Injection (Fuel Pump Adaptation), Fuel Injection (Fuel Supply System), Fuel Supply Pump Activation, Fuel Supply System (Fuel Pressure Reduction), Fuel Supply System (Intake Runner Flap Adaptation) tests, Idle Speed Adjustment, Ignition (Knock Sensor Test), Injector Calibration tests, Lambda Control (Aging Check) tests, Lambda Control (Catalytic Conversion) tests, Lambda Control (Sensor Exchange), Lambda Control (Sensor Readiness - After Catalyst), Lambda Control Shut-Off, Lambda Control Shut-Off, Pre-Glow Period, Servo Pump Load Calibration, Starting Torque Calibration, Transfer Configuration
- **ABS/Brakes** - Adjustment Of Brake Pressure Sensor, Adjustment Of Lateral Acceleration Sensor, Adjustment Of Longitudinal Acceleration Sensor, Adjustment Of Rotation Rate & Lateral/Longit. Acc. Sensor, Adjustment Of Steering Angle Sensor, Brake Assist, Brake Booster, Brake Disc Wiper (BDW), Brake System Bleeding, Close Rear Parking Brake (After Pad Change/Repair), Dynamic Steering Recommendation, Extended Electronic Differential Lock (XDS), Hill Hold Assist (HHA), Hydraulic Brake Assist (HBA), Hydraulic Unit Disconnecting Valve Adjustment, Hydraulic Unit Intake Valve Adjustment, Installation Park Steer Assist (PLA), Open Rear Parking Brake (Prior Pad Change/Repair), Overboost (OB)/Overload Operation, Tire Pressure Monitoring System (Tpms) Reset
 - **Safety/Airbag** - Battery Separating Relay Deactivation, Component Protection (Vehicle Identification Number), Passenger Seat Occupation Recognition Sensor Deactivation, Learned Values (Vehicle Data), Seat Occupied Recognition Reset
 - **Instrument Cluster** - Basic Distance Value for Inspection, Basic Distance Value for Oil Change, Basic Time Value for Inspection, Basic Time Value for Oil Change, Consumption Correction, Oil Minimum Detection, Oil Temperature/Level Sensor Installation, Speed Threshold, Tank Characteristic (Full Calibration)
 - **Climate Control/HVAC** - Potentiometer And Flap Alignment
 - **Suspension** - Front Wheel/Height Calibration tests, Rear Wheel/Height Calibration, Wheel/Height Calibration Confirmation
 - **Steering** - Adjustment Of Steering Angle Sensor, Installation Dynamic Chassis Control (DCC), Installation Lane Assist, Installation Park Steer Assist, Steering Angle Sensor, Torque Steer Compensation (TSC)
 - **Others** – Headlight Adjustment Position, tests for BATTERY REGULATION, CENTRAL COMFORT SYS, CENTRAL ELECTRICS, IMMOBILIZER

250 new Actuation type special tests including:

- **ABS/Brakes** – Activate ESP System/Function Test
- **Suspension** – Damper tests,
- **Instrument Cluster** - Segment Test
- **Climate (HVAC)** - A/C Compressor Regulator Valve, Air Flow Flap Control Motor, Air Recirculation Flap Control Motor, Central Flap Positioning Motor, Coolant Fan, Coolant Fan Control Module, Defroster Flap Control Motor, Display: Black Segments, Display: Red Segments, EVAP Temp Target, Fresh Air Blower, Heated Rear Window, Heated Seat Front Left, Heated Seat Front Right, Interior Temp Sensor Fan, Rear Blower Speed, Rear Blower State, Segment Test, Temperature Flap Motor Left, Temperature Flap Motor Right
- **Doors** - Central Locking Motors, Lighting/Illumination, Mirror Function Test, Mirror Heating, Window Regulator tests

- **Others** – tests for CENTRAL COMFORT SYS, CENTRAL ELECTRICS, HEADLIGHT

