Version 3.7.1.10

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Overview

Version 3.7 contains major new coverage additions and software enhancements.

Thousands of new tests included in this 3.7 update including improvements and suggestions from professional technicians.

Software and coverage feature details provided throughout these release notes.

Unlock 2018 / 2019 Secure Gateway protected FCA vehicles
(Chrysler, Dodge, Jeep, Ram, Fiat, Alfa Romeo)  (BETA Test)

COMING SOON: This functionality requires the 3.7 update, but will be enabled on your device within a few weeks after the update is posted. Registered users will be notified via email when this feature is turned on.

The Beta test feature will allow customers to quickly diagnose all security gateway protected vehicles seamlessly and within seconds. Only an internet connection and active tool subscription is required.**

**Security gateway unlock feature can be interrupted during the course of the Beta Test at any time. Service offering conditions subject to change with official release.

New Coverage - Summary

- **Chrysler/Jeep** – New coverage for 2019MY vehicles and systems
- **Toyota** – New coverage for 2019MY vehicles and systems
- **Honda** – New coverage for 2019MY vehicles and systems
- **Nissan** – New coverage for 2019MY vehicles and systems
- **Mazda** – New coverage for 2019MY vehicles and systems and 2018MY Mazda6
- **Subaru** – New coverage for 2019MY vehicles and systems
- **Alfa Romeo** – New coverage for 2019MY vehicles and systems
- **Fiat** – New coverage for 2019MY vehicles and systems
- **ADAS** – Dynamic calibrations for front camera now available for GM, Ford, Chrysler/Jeep, Mazda, Mitsubishi, Honda, Hyundai, Kia, BMW and Volvo
- **New OBDII Mode 6 additions** – New parameters added for Nissan/Infiniti
- **Updated Diagnostic Information for the following:**
  - PCM Connector Pin Information (B.O.B) for 2016-2018MY Chrysler/Jeep, 2017MY Ford and 2017-2018MY GM
Secure Gateway Unlock – Beta Test

- After 3.7 update and email notification that Beta Test is live: Devices will be enabled to unlock FCA Secure Gateway (SGW) vehicles. Ability to clear Diagnostic Trouble Codes and perform Special Tests on many 2018 and newer Chrysler, Dodge, Jeep, Ram, Fiat and Alfa Romeo vehicles.
- For those vehicles that support the FCA Secure Gateway (SGW) unlock functionality, users will see the following message during Vehicle Selection process:

![Notice message]

**Clearing DTCs** on FCA SGW enabled vehicles requires an internet connection in order to relay the details of your 2018 and newer FCA vehicle to an online service that can unlock the Gateway. Just connect to the internet, read DTCs and utilize the “Clear DTCs” button:

![Clear DTCs dialog box]
Special Tests on FCA SGW enabled vehicles also requires internet connection. Ensure Scan tool is connected to internet, and tap on Special Tests to begin the process:

Tap on a Special Test, wait for SGW to be unlocked and the test will be made available:
New Coverage – Highlights (full list starts on page 11)

**ADAS – Dynamic calibrations for front camera**

- Calibrations now included as part of the 3.7 Release. This is available by utilizing the Maintenance Test Special test function from the Vehicle Menu for certain 2008-2019 vehicles*
  
  * See the Coverage Highlights below for where supported.

- Tapping on the Glass Replacement selection brings up all available “Dynamic” tests that are available for the selected vehicle. Tap the test to launch the desired calibration test:

- These functions can also be found using the regular Special Test entry method for each ECU.
These tests are set up as a ‘Guided Tour’ of the function tailored for each vehicle application. Here is an example of one of the tests:

- First we explain when this function is commonly used:

  **Reference Point Calibration - Dynamic**

  This procedure will calibrate the LKAS:

  Carry out procedure when:
  - Windshield removed or replaced.
  - LKAS Module has been replaced.
  - LKAS Module should be programmed with the right vehicle variant coding info before service calibration.

- Next, we give vehicle specific instructions about vehicle set up procedures that must be completed to run the test:

  **Reference Point Calibration - Dynamic**

  Before Aiming:
  - Make sure all tires are inflated to the proper pressure.
  - Vehicle is NOT loaded.
  - Windshield is clean.
  - Camera has unobstructed view.

  This procedure will require the vehicle to be driven.
Now we make notes related to the driving portion of the procedure:

Reference Point Calibration - Dynamic

Note:

- The minimum vehicle speed: more than 22 mph.
- The minimum driving distance: more than 1.1 mile.
- The lane markings must be clearly recognizable on both sides. (Faded lane paint may not be detected by the LKAS).
- There should not be any sharp bends in the road (curvature radius of less than 820 feet).
- There should not be sidewalks or other dividing structures along the edge of the lane.

Be prepared to drive before continuing.

We continue with notes and tips about the driving portion:

Reference Point Calibration - Dynamic

Note:

- Although the vehicle running on the straight roads enters curved roads or comes to stop, the progress in calibration process is maintained and the calibration process is resumed when the vehicle re-enters the straight roads.
- The real driving time is subject to traffic and roads situation.
- If calibration is not completed within ten minutes, the calibration process fails. In this case, the calibration process should be repeated from the first phase.

Be prepared to drive before continuing.
• Now we begin the driving part of the test:

Reference Point Calibration - Dynamic
Start engine and drive at required speed range to calibrate camera.
Press Continue to start Calibration.

• Status view during the procedure:

Reference Point Calibration - Dynamic
Status   IN PROGRESS
Vehicle Applications for Dynamic Camera Calibration tests:

- **BMW** - ‘KAFAS Camera Calibration’ was added for these vehicles:
  - 2014-2017 BMW 2-Series
  - 2012-2017 BMW 3-Series
  - 2014-2017 BMW 4-Series
  - 2008-2017 BMW 5-Series
  - 2008-2017 BMW 6-Series
  - 2009-2017 BMW 7-Series
  - 2013-2015 BMW ActiveHybrid 3
  - 2013-2015 BMW ActiveHybrid 5
  - 2013-2015 BMW ActiveHybrid 7
  - 2015 BMW Alpina B6 Gran Coupe
  - 2016-2017 BMW Alpina B6 xDrive Gran Coupe
  - 2011-2015 BMW Alpina B7
  - 2017 BMW Alpina B7
  - 2011-2015 BMW Alpina B7L
  - 2014-2015 BMW i3
  - 2015 BMW i8
  - 2014-2017 BMW M2
  - 2015-2017 BMW M3
  - 2015-2017 BMW M4
  - 2008-2016 BMW M5
  - 2017 BMW M760i xDrive
  - 2016-2017 BMW X1
  - 2012-2017 BMW X3
  - 2014-2017 BMW X4
  - 2008-2017 BMW X5
  - 2008-2017 BMW X6

- **Chrysler/Jeep** - 'Camera Calibration' was added for these vehicles:
  - 2015-2017 Chrysler 200
  - 2015-2017 Chrysler 300
  - 2015-2017 Dodge Charger
  - 2014-2017 Dodge Durango
  - 2017 Chrysler Pacifica
  - 2014-2018 Jeep Cherokee
  - 2017-2018 Jeep Compass
  - 2014-2017 Jeep Grand Cherokee
- **Ford/Lincoln** - 'LDWS Camera Alignment' was added for these vehicles:
  - 2017-2018 Lincoln Continental
  - 2015-2018 Ford Edge
  - 2017-2018 Ford Escape
  - 2013-2018 Ford Explorer
  - 2015-2018 Ford F-150
  - 2017-2018 Ford F-250 Super Duty
  - 2017-2018 Ford F-350 Super Duty
  - 2015-2018 Lincoln MKC
  - 2012-2016 Lincoln MKS
  - 2013-2018 Lincoln MKT
  - 2013-2018 Lincoln MKX
  - 2013-2018 Lincoln MKZ
  - 2018 Lincoln Navigator
  - 2013-2016 Ford Police Interceptor Sedan
  - 2013-2016 Ford Police Interceptor Utility
  - 2015-2016 Ford Special Service Police Sedan
  - 2012-2018 Ford Taurus
  - 2018 Ford Transit-150
  - 2018 Ford Transit-250
  - 2018 Ford Transit-350
  - 2018 Ford Transit-350 HD

- **GM** - 'Vehicle Direction Camera Learn' was added for these vehicles:
  - 2016-2018 Buick Casada
  - 2014-2018 Buick Enclave
  - 2013-2018 Buick Encore
  - 2016-2018 Buick Envision
  - 2014-2017 Buick LaCrosse
  - 2014-2017 Buick Regal
  - 2018 Buick Regal Sportback
  - 2018 Buick Regal TourX
  - 2014-2017 Buick Verano
  - 2013-2018 Cadillac ATS
  - 2018 Cadillac CT6
  - 2014-2018 Cadillac CTS
  - 2014-2016 Cadillac ELR
  - 2014-2018 Cadillac Escalade
  - 2015-2018 Cadillac Escalade ESV
  - 2013-2016 Cadillac SRX
  - 2017-2018 Cadillac XT5
  - 2013-2018 Cadillac XTS
  - 2017-2018 Chevrolet Bolt EV
  - 2015-2018 Chevrolet Colorado
  - 2016-2018 Chevrolet Cruze
  - 2013-2018 Chevrolet Equinox
  - 2014-2018 Chevrolet Impala
  - 2014-2018 Chevrolet Malibu
  - 2016 Chevrolet Malibu Limited
  - 2014-2018 Chevrolet Silverado 1500
  - 2015-2018 Chevrolet Silverado 2500 HD
  - 2015-2018 Chevrolet Silverado 3500 HD
  - 2014-2018 Chevrolet Sonic
  - 2016-2017 Chevrolet Spark
  - 2014-2017 Chevrolet SS
  - 2015-2018 Chevrolet Suburban
  - 2016-2018 Chevrolet Suburban 3500 HD
  - 2015-2018 Chevrolet Tahoe
  - 2014-2018 Chevrolet Traverse
  - 2015-2018 Chevrolet Trax
  - 2013-2018 Chevrolet Volt
  - 2014-2018 GMC Acadia
  - 2017 GMC Acadia Limited
  - 2015-2018 GMC Canyon
  - 2014-2018 GMC Sierra 1500
  - 2015-2018 GMC Sierra 2500 HD
  - 2015-2018 GMC Sierra 3500 HD
  - 2013-2018 GMC Terrain
  - 2015-2018 GMC Yukon
  - 2015-2018 GMC Yukon XL
• **Honda/Acura** - ‘Dynamic Camera Aiming’ was added for these vehicles:
  - 2013-2015 Honda Accord
  - 2013-2015 Honda Civic
  - 2013-2015 Honda Crosstour
  - 2013-2017 Honda Odyssey
  - 2014-2016 Acura MDX
  - 2016 Acura RDX
  - 2014-2016 Acura RLX
  - 2015 Acura TLX
  - 2013 Acura ZDX

• **Hyundai** - ‘Reference Point Calibration - Dynamic’ was added for these vehicles:
  - 2015-2017 Hyundai Azera

• **Kia** - ‘Reference Point Calibration - Dynamic’ was added for these vehicles:
  - 2017-2018 Kia Cadenza
  - 2016-2018 Kia K900
  - 2017-2018 Kia Niro
  - 2016-2018 Kia Optima
  - 2016 Kia Sorento
  - 2017-2018 Kia Sportage

• **Mazda** - ‘Forward Sensing Camera Calibration - Dynamic’ was added for these vehicles:
  - 2017-2018 Mazda 6
  - 2017-2018 Mazda 3
  - 2016-2018 Mazda MX-5 Miata

• **Mitsubishi** - ‘Dynamic Camera Aiming’ was added for these vehicles:
  - 2014-2016 Mitsubishi Outlander

• **Volvo** - ‘Camera and Radar Calibration’ was added for these vehicles:
  - 2012-2017 Volvo S60
  - 2016-2017 Volvo S60 Cross Country
  - 2008-2017 Volvo S80
  - 2017 Volvo S90
  - 2015-2017 Volvo V60
  - 2015-2017 Volvo V60 Cross Country
  - 2009-2010 Volvo V70
  - 2010-2017 Volvo XC60
  - 2009-2016 Volvo XC70
  - 2016-2017 Volvo XC90
New Coverage Details – Domestic

**Chrysler/Jeep Coverage**

- New coverage for 2019MY vehicles and systems
- ADAS dynamic camera calibrations for 2014-2017 vehicles
- Added coverage for 810 new systems
- Added coverage for 1,515 new vehicle-ecu combinations

**New Adjustment type special tests including:**

- ADAS - FFCM Camera Calibration

**Special test fixes/improvements:**

- 2008 Ram 3500 6.7L ENGINE – improved preconditions instructions to help user
- 2012 Ram 2500 6.7L ENGINE – added Rail Pressure Override test, was missing

**Updated Diagnostic Information for the following:**

- PCM Connector Pin Information (B.O.B) for 2016-2018MY

**Ford Coverage**

- ADAS dynamic camera calibrations for 2012-2018 vehicles

**53 new Adjustment type special tests including:**

- Brakes/ABS - ABS Service Bleed, Electronic Integrated Park Brake, Multi-Calibration Routine, Valve Calibration
- Body Control - Battery Monitor System Reset, BCM Crash Status Reset
- ADAS - IMAGE PROCESSING MODULE A - LDWS Camera Alignment

**685 new Actuation type special tests including:**

- Engine/PCM – A/C tests, All Wheel Drive Clutch Control Commanded, Charge Air Cooler Cooling Fan Speed, Camshaft tests, Desired Fuel Rail Pressure, Engine Running Fuel Pressure Test, EVAP tests, Fan tests, Fuel Injector tests, High Pressure Fuel System Test, Intake Manifold Runner Control, Low Pressure Fuel Leakdown Test, O2 Heater Control tests, Transmission tests, Turbocharger Wastegate Control, Reductant Injector Duty Cycle, Reductant Line Heater Control, Reductant Pump Heater Control, Reductant Reverting Valve Duty Cycle – Commanded, Reductant Tank Heater Control
- Transmission - Commanded Current Shift Solenoid F, Converter Pressure Control, Desired Line Pressure Control, Electric Transmission Fluid Pump Control Duty Cycle, Gear Command By Output State Control, Output State Control Of Torque Converter, Pressure Control Solenoid A, Shift Solenoid Pressure Control tests
  - **AWD/Transfer Case** - 4WD PWM Clutch Status, CCW Relay, CW Relay, Integrated Wheel Ends Output Control, Rear Locking Diff Lamp Output Control Optional, Rear Locking Diff Output Duty Cycle Optional, Shift Motor Position Sense Contact Plate Power Circuit Status
  - **Instrument Cluster** - Lamp tests, Gauge tests, Segment tests, Button tests, Dimming Control, On Demand Test
  - **Climate (HVAC)** - Air Mode Actuator, Blower Motor Speed, Left Blend Door Mode, Right Blend Door Mode, Rear Blower Control, Rear HVAC Mode Control Input, Rear Temperature Flap Position
  - **Body Control** - Lamp and Buzzer/Warning tests, Door Lock tests, On Demand Test, Wiper tests, Turn Signal tests, Headlight tests
  - **Others** - Tests for AUDIO CONTROL, DRIVER DOOR MODULE, PASSENGER FRONT DOOR MODULE, TRAILER MODULE

**Updated Diagnostic Information for the following:**
- PCM Connector Pin Information (B.O.B) for 2017MY

**General Motors / Saturn Coverage**
- ADAS dynamic camera calibrations for 2013-2018 vehicles

**182 new Adjustment type special tests including:**
- **AWD/Transfer Case** - AWD Disabled-by-Malfunction Counter Reset, Range Actuator Learn, Rear Differential Hydraulic System Service Bleed, Transfer Case Clutch Overtemperature Counter Reset
- **Brakes/ABS** - Automated Brake Bleed, Adaptive Pressure Control Learn, Brake Pressure Sensor Calibration, Park Brake Cable Replacement Procedure, Park Brake Calibration
- **Tire Pressure Monitor/RCDLR** - Copy And Paste TPM Information, Tire Pressure Sensor Registration, Tire Pressure Sensors Learn, Tire Type/Pressure Selection
- **Safety/Airbag** - Configure New Module, Passenger Presence Sensor Learn, Reset High Voltage Disable Request After Crash Event Detected, Reset History Buffer, Setup SDM Primary Key In BCM, Yaw Rate Sensor Learn
• **Climate/HVAC** - HVAC Actuators Learn, HVAC Afterblow Configuration

• **Instrument Cluster** - CAN Bus Configuration Learn, Driver Information Center Options

• **Steering** - Clear Active Pull Compensation Learned Limits, Clear Driver-Specific Steering Angles, Clear Softstops, Control Module Reset, Learned ValuesReset, Power Steering Pressure Sensor Learn, Power Steering Softstops Reset, Steering Gear Replacement Procedure, Steering Wheel Angle Sensor Centering, Steering Wheel Angle Sensor Learn, Steering Wheel Angle Sensor Reset

• **Body Control** - Battery Sensor Module Learn, Brake Pedal Position Sensor Learn, Clear Window Learned Values tests, Invalidate All Fobs, Program Key Fob tests, Reset Teen Driver Key PIN, Setup SDM Part Number In BCM, Hands-Free Liftgate Sensor Control Module Calibration, Liftgate Maximum Open Position Learn

• **ADAS** - FRONTVIEW CAMERA MODULE- Vehicle Direction Camera Learn

• **Others** – SEAT MEMORY Adjustable Pedal Calibration

808 new Actuation type special tests including:


- **Transmission** - Line PC Solenoid, PC Solenoid tests, Shift Solenoid tests, TCC Control Solenoid, TCC Enable Solenoid, TCC Pressure Control Solenoid tests

- **ABS/Parking Brake** - ABS Motor, ABS Relay Test, Brake Booster Electric Vacuum Pump, Park Brake Cable Service Apply, Park Brake Cable Service Release, Rear Brake Caliper Piston Extend, Rear Brake Caliper Piston Retract, Solenoid tests

- **Safety/Airbag** – Lamp/Indicator tests

- **Transfer Case** - Pump Motor Tests, Range Actuator, Rear Drive Clutch Solenoid Valve, Lamp tests, Transfer Case Clutch

- **Suspension** - All Shock Absorber Actuators, Depressurize System, Pressurize System, Shock Absorber tests, Suspension Position Sensor Trim Height

- **Instrument Cluster** - Display Test, Dimming tests, Instrument Cluster Gauge Sweep, Lamp tests

- **Climate/HVAC** - A/C Compressor, A/C Request, Air Inlet Door, Air Recirculation Door, Blower Motor, Mode Door tests

- **Body Control** - Lamp and buzzer/Warning tests, Door Lock tests, Wiper tests, Washer tests

- **Seat** – Lumbar tests, Horizontal Movement tests, Vertical Movement tests

**Updated Diagnostic Information for the following:**

- PCM Connector Pin Information (B.O.B) for 2017-2018MY
New Coverage Details - Asian

**Honda/Acura Coverage**
- New coverage for 2019MY vehicles and systems
- Added coverage for 247 new systems
- Added coverage for 1,905 new vehicle-ecu combinations

**Mazda Coverage**
- New coverage for 2019MY vehicles and systems
- ADAS dynamic camera calibrations for 2017-2018 vehicles
- Added coverage for 99 new systems
- Added coverage for 99 new vehicle-ecu combinations

New Adjustment type special tests including:
- ADAS - Forward Sensing Camera Calibration - Dynamic

97 new Actuation type special tests including:
- **Engine/PCM** - Desired RPM, Engine Oil Pressure Solenoid Valve tests, EVAP Leak Test, Fan tests, Fuel Injector tests, Fuel Pump, Vehicle Drive Device Function Test Mode, Wastage Valve Position
- **Transmission** - Electric Oil Pump tests, Pressure Control Solenoid Current – Commanded, Shift Solenoid tests, Torque Converter Clutch Solenoid Current
- **ABS/Brakes** – Inlet Valve tests, Outlet Valve tests, Pump Motor Supply, Stability Control Valve tests, Traction Control Valve tests
- **Instrument Cluster** - Lamp tests, Speedometer, Tachometer
- **Body Control** - Lamp and Buzzer/Warning tests, Window tests, Door Lock tests, Wiper/Washer tests
- **Others** - tests for SMART START UNIT

**Mitsubishi Coverage**
- ADAS dynamic camera calibrations for 2014-2016 vehicles

**Nissan/Infiniti Coverage**
- New coverage for 2019MY vehicles and systems
- Added coverage for 102 new systems
- Added coverage for 677 new vehicle-ecu combinations

24 new Actuation type special tests including:
- **Engine/PCM** - Cooling Fan
- **ABS/Brakes** - ABS Motor, Parking Brake Full Release
- **Climate (HVAC)** - HVAC Test
- **Body Control** – Flasher, Front Wiper, Horn, Motor Fan

**Subaru Coverage**
- New coverage for 2019MY vehicles and systems
- Added coverage for 103 new systems
- Added coverage for 277 new vehicle-ecu combinations
Toyota/Lexus Coverage

- New coverage for 2019MY vehicles and systems
- Added coverage for 250 new systems
- Added coverage for 1,883 new vehicle-ecu combinations

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

- **Steering** - Torque Sensor Adjustment
- **ADAS** - BSM Master Abnormal History, BSM Slave Abnormal History

**58 new Actuation type special tests including:**

- **Engine/PCM** - Control the Exhaust VVT OCV Duty Ratio Bank tests, Control the Fuel Pump Duty Ratio, Control The Injection Volume For A/F Sensor, Control the Intake VVT OCV Duty Ratio Bank tests, Control the Target Fuel Pressure Offset, Injection Volume, Control ETCS Open/Close tests, EGR Step Position #2 Control, Injection Timing tests
- **Climate (HVAC)** - A/M Servo Pulse tests, A/O Servo Pulse tests, Air Mix Servo Targ Pulse tests, Air Purifier Mode, Assist Fan, Blower Motor, Cool A/M tests, Cool Air Bypass tests, Defogger Relay Rear, Deicer Relay Front, Face A/O Servo Pulse tests, Foot A/O Servo Pulse tests, Hot A/M Servo Pulse tests, M/H Bypass tests, Rear A/M Servo Pulse, Rear Blower Motor

**Special test fixes/improvements:**

- 2014 RX350 ELECTRIC POWER STEERING - fixed Torque Sensor Adjustment test not working properly
New Coverage Details – USA European

**Alfa Romeo Coverage**
- New coverage for 2019MY vehicles and systems
- Added coverage for 54 new systems
- Added coverage for 99 new vehicle-ecu combinations

**Audi Coverage**
52 new Adjustment type special tests including:
- **ABS/Brakes** - Basic Setting / Bleeding Brake System, Basic Setting Of Cut-Out Valves, Basic Setting Of Intake Valves, Basic Setting Steering Angle Sensor
- **Safety/Airbag** - Basic Setting Seat Occupied Recognition, Null Balance Seat Occupied Recognition

6 new Actuation type special tests including:
- **ABS/Brakes** – ESP Road Test, Roller Test Bench Mode
- **Others** – tests for CAN GATEWAY (19)

**BMW/Mini Coverage**
- ADAS dynamic camera calibrations for 2008-2017 vehicles
- Added coverage for 118 new vehicle-ecu combinations

11 new Adjustment type special tests including:
- **Engine/PCM** - Injector Quantity Adjustment, Reset Adaptation Parameters, Reset EGR Adaptation Values, Reset fuel minimum quantity adaption, Reset mixture adaption, Reset uneven running segment times, Throttle Adaptation
- **Transmission** - Display And Reset Adaptation Values
- **Steering** - Steering Basic Setting
- **Instrument Cluster** – Service Requirement Reset
- **ADAS** - KAFAS Camera Calibration

5 new Actuation type special tests including:
- **Engine/PCM** - Fuel Quality Recognition, Solenoid Valve - Tank Ventilation
- **Safety/Restraint** - Seat Occupancy Detection, Front Passenger
- **Transfer Case** - Transfer Box - Replace Control Unit
- **Climate (HVAC)** - HVAC- Newly Address the Air Distribution Flap Motors

**Fiat Coverage**
- New coverage for 2019MY vehicles and systems
- Added coverage for 98 new systems
- Added coverage for 129 new vehicle-ecu combinations

**Volkswagen Coverage**
52 new Adjustment type special tests including:
- **ABS/Brakes** - Basic Setting / Bleeding Brake System, Basic Setting Of Cut-Out Valves, Basic Setting Of Intake Valves, Basic Setting Steering Angle Sensor
- **Safety/Airbag** - Basic Setting Seat Occupied Recognition, Null Balance Seat Occupied Recognition

6 new Actuation type special tests including:
- **ABS/Brakes** – ESP Road Test, Roller Test Bench Mode
- **Others** – tests for CAN GATEWAY (19)

Other fixes/improvements:
- 2012 Jetta AIRBAG - fixed communication issues

**Volvo Coverage**
- ADAS dynamic camera calibrations for 2008-2017 vehicles