



## Diagnostic devices

# Additions And Modifications In Software Version 66

## Things to know – an overview

### New

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#### | mega macs 56

- IPv6 is available now.

#### | mega macs ONE, mega macs PC, mega macs 42 SE, mega macs 56, mega macs 77, mega macs X

- Extended Cyber Security Management (CSM) function for KIA
- Extended Cyber Security Management (CSM) function for Renault

#### | mega macs 56, mega macs 66

- The VIN read out is adopted in the Help call.

#### | mega macs X, MT-HV

- Integration of guided high-voltage measurement functions

#### | mega macs ONE, mega macs PC, mega macs 42 SE, mega macs 56, mega macs 66, mega macs 77, mega macs X

- All available languages are free of charge accessible in the diagnostic device.

### Revisions

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#### | mega macs 42 SE

- Help texts of electric vehicles of the VAG Group are displayed correctly.

#### | mega macs 66

- The Wi-Fi module responds again.
- The charge indicator in the Global check works properly.
- The Flash fault of the firmware has been removed. Firmware failures shall be processed via the customer support.

#### | mega macs 66, mega macs 56, mega macs PC, mega macs 42 SE, mega macs ONE

- Different result texts have been improved for the Car History.

#### | mega macs 56

- The crash during interpreting of the wiring diagram has been removed.
- Safety symbols are depicted properly now.
- Data records can be synchronized via Wi-Fi connection now.

### Modifications

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#### | mega macs 66, mega macs 56

- Stored help calls can be called up and processed again after 14 days.
- Bluetooth pairing is possible via USB now (Preconditions: mega macs is connected to the PC, HGS drivers are installed on the PC).



### Diagnostic devices

- | **mega macs 66, mega macs 56, mega macs PC**
  - Inscriptions in the wiring diagrams are visible again, also with zoomed view.
- | **mega macs 56**
  - The Bluetooth connection is only established if required, then automatically.
- | **mega macs 66, mega macs 56, mega macs PC, mega macs 42 SE**
  - The indication of the version info has been standardized.



## Diagnostic devices

# Vehicle Models with Cyber Security Management According to Manufacturer

This list merely gives a basic overview of the scope of our data additions.

## Manufacturer

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### Alfa Romeo

| Model [Giulia (952) 2018-, Stelvio (949) 2018-]

### Audi

| Model [A3 2020-, e-tron 2019-, e-tron GT 2021-, Q4 e-tron 2021-]

### Cupra

| Model [Leon 2020-, Formentor 2020-, Born 2021-]

### Dacia

| Model [Spring 2021-]

### Fiat

| Model [500L (330) 2017-, 500X (334) 2018-, 500e (332), Doblo (152/263) 2018-]

### Jeep

| Model [Renegade 2019-, Compass (MP) 2017-]

### Kia

| Model [Ceed / proCeed 2019-, Stinger 2018-]

### Mercedes

| Model [C-Class (206) 2021-, E-Class (213 MY 2020-) 2020-, S-Class (223) 2020-, EQS (297) 2021-, EQE (295) 2022-, SL-Class (232) 2022-]



## Diagnostic devices

### Renault

| Model [Zoe Facelift 2019-, Clio V 2019-, Captur II 2020-, Twingo III Facelift 2020-, Megane IV Facelift 2020-, Talisman Facelift 2020-]

### Seat

| Model [Leon 2020-]

### Skoda

| Model [Octavia 2020-, Enyaq 2021-]

### Volkswagen

| Model [Golf 8 2019-, Caddy 2020-, ID.3 2020-, ID.4 2020-, ID.5 2022, Transporter T7 2021-]



## Diagnostic devices

### Functions according to manufacturer

This list merely gives a basic overview of the scope of our data additions. A complete list with all the model additions for every manufacturer would be simply too extensive.

#### Extended and revised manufacturers

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##### Audi

- Trouble codes** (A1, 8X), (A1, GB), (A3, 8Y), (A4, 8W), (A5, F5), (A6, 4A), (A7, 4K), (A8, 4N), (e-tron, GE), (e-tron GT, FW), (Q3, F3), (Q4 e-tron, FZ), (Q5, FY), (Q7, 4M), (Q8, 4M), (R8, 42), (RS Q3, F3), (RS3, 8Y), (RS4, 8W), (RS5, F5), (RS6, 4A), (RS7, 4K), (S4, 8W), (S5, F5), (S6, 4A), (S7, 4K), (S8, 4N), (TT, FV)
- Parameters** (A1, 8X), (A1, GB), (A3, 8Y), (A4, 8W), (A5, F5), (A6, 4A), (A7, 4K), (A8, 4N), (e-tron, GE), (e-tron GT, FW), (Q3, F3), (Q4 e-tron, FZ), (Q5, FY), (Q7, 4M), (Q8, 4M), (R8, 42), (RS Q3, F3), (RS3, 8Y), (RS4, 8W), (RS5, F5), (RS6, 4A), (RS7, 4K), (S4, 8W), (S5, F5), (S6, 4A), (S7, 4K), (S8, 4N), (TT, FV)
- Actuators** (A1, 8X), (A3, 8Y), (A4, 8W), (A5, F5), (A6, 4A), (A7, 4K), (A8, 4N), (Q3, F3), (Q4 e-tron, FZ), (Q5, FY), (Q7, 4M), (Q8, 4M), (R8, 42), (RS3, 8Y), (S4, 8W), (S5, F5), (TT, FV)
- Basic settings**
  - Initializing electric seats ((A5, F5), (Q8, 4M), (A4, 8W), (A8, 4N), (Q5, FY), (A3, 8Y), (RS3, 8Y), (S4, 8W), (S5, F5), (A6, 4A), (A7, 4K), (Q3, F3), (Q4 e-tron, FZ), (Q7, 4M))
  - Initializing the adaptive cruise control ((A5, F5), (Q8, 4M), (A4, 8W), (A7, 4K), (A8, 4N), (Q5, FY), (S4, 8W), (S5, F5), (A6, 4A), (Q3, F3), (Q4 e-tron, FZ))
  - Initializing the lateral acceleration sensor ((A1, 8X), (S1, 8X))
  - Activating the roller test stand mode ((A3, 8Y), (RS3, 8Y))
  - Adapting the radiator shutter ((A5, F5), (Q8, 4M), (Q4 e-tron, FZ), (A6, 4A), (Q5, FY), (A4, 8W), (Q7, 4M))
  - Standardizing the loading space cover ((A5, F5), (Q8, 4M), (A4, 8W), (S4, 8W), (S5, F5), (Q7, 4M))
  - Learning the steering-angle sensor ((Q8, 4M), (A4, 8W), (A7, 4K), (A8, 4N), (Q5, FY), (A3, 8Y), (RS3, 8Y), (S4, 8W), (S5, F5), (A5, F5), (A6, 4A), (Q4 e-tron, FZ), (Q7, 4M))
  - Regenerating the soot particulate filter ((TT, FV), (A3, 8Y), (Q3, F3))
  - Resetting engine adaptation values ((A5, F5), (Q8, 4M), (A1, 8X), (TT, FV), (A8, 4N), (A6, 4A), (Q5, FY), (A3, 8Y), (RS3, 8Y), (A4, 8W), (A7, 4K), (Q3, F3), (Q7, 4M), (R8, 42))
  - Electronic damper control ((TT, FV))
  - Initializing the ESC sensors ((A1, 8X), (S1, 8X), (TT, FV), (A3, 8Y), (RS3, 8Y), (Q3, F3))
  - Resetting gen. ECU learning values ((A1, 8X))
  - Putting the 48 V system back into operation ((Q8, 4M), (A4, 8W), (A7, 4K), (A8, 4N), (S4, 8W), (S5, F5), (A5, F5), (A6, 4A), (Q3, F3))
  - Reset exhaust-gas aftertreatment filter learning values ((A4, 8W), (A5, F5), (A6, 4A), (Q5, FY))
  - Filling/bleeding the pneumatic suspension system ((Q8, 4M), (A7, 4K), (A8, 4N), (Q5, FY), (A6, 4A), (Q7, 4M))



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Bleeding the fuel system ((A3, 8V), (Q8, 4M), (A4, 8W), (A6, 4A), (A3, 8Y), (A5, F5), (Q3, F3), (Q5, FY), (Q7, 4M))

Filling/bleeding the cooling system ((A4, 8W), (A5, F5), (A6, 4A), (Q5, FY))

Burning off aux. heater/independent car heater ((A5, F5), (Q8, 4M), (A4, 8W), (A7, 4K), (A8, 4N), (Q5, FY), (A3, 8Y), (RS3, 8Y), (S4, 8W), (S5, F5), (A6, 4A), (Q3, F3), (Q7, 4M))

Initialize 4WD clutch oil pump ((TT, FV), (Q3, F3))

Regenerating the soot particulate filter ((Q8, 4M), (A4, 8W), (A8, 4N), (A6, 4A), (A3, 8Y), (A5, F5), (Q5, FY), (Q7, 4M))

Changing and checking DCT fluid ((A3, 8V), (A5, F5), (A4, 8W), (A7, 4K), (A3, 8Y), (Q5, FY), (S4, 8W), (S5, F5), (A6, 4A))

Initialising the boost pressure regulator ((A7, 4G), (A6, 4G), (S3, 8V), (A8, 4H), (A5, F5), (Q2, GA), (TT, FV), (A1, 8X), (Q5, FY), (A6, 4A), (A7, 4K), (Q3, F3))

Initializing the seat belt tensioner ECU ((TT, FV), (Q3, F3))

Locking/unlocking the ride height leveling ((Q8, 4M), (A7, 4K), (A8, 4N), (Q5, FY), (A6, 4A), (Q7, 4M))

Bringing gear actuator of direct shift transmission in neutral position ((TT, 8J), (A1, 8X))

Standardizing the liftgate ((A5, F5), (Q8, 4M), (A4, 8W), (A7, 4K), (A8, 4N), (Q5, FY), (A3, 8Y), (RS3, 8Y), (S4, 8W), (S5, F5), (A6, 4A), (Q3, F3), (Q4 e-tron, FZ), (Q7, 4M))

Calibrating the parking brake ((A5, F5), (Q8, 4M), (TT, FV), (A7, 4K), (A8, 4N), (Q5, FY), (A4, 8W), (A6, 4A), (Q3, F3), (Q7, 4M))

Initialize actuator of coolant temperature control ((A5, F5), (TT, FV), (Q5, FY), (A6, 4A), (A7, 4K), (Q3, F3))

Adapting the soot particulate filter ((A5, F5), (Q8, 4M), (TT, FV), (A6, 4A), (Q5, FY), (A3, 8Y), (RS3, 8Y), (A4, 8W), (A7, 4K), (Q3, F3), (Q7, 4M))

Checking emergency battery of emergency call system/telematics system ((A5, F5), (Q8, 4M), (A4, 8W), (A7, 4K), (A8, 4N), (Q5, FY), (S4, 8W), (S5, F5), (A6, 4A), (Q7, 4M))

Learning the throttle valve ((A5, F5), (A1, 8X), (TT, FV), (A3, 8Y), (Q5, FY), (A6, 4A), (A7, 4K), (Q3, F3), (R8, 42))

Learning the steering-angle sensor ((A5, F5), (A1, 8X), (TT, FV), (Q3, F3))

Initializing the tilt/slide sunroof ((A5, F5), (Q8, 4M), (A4, 8W), (A1, 8X), (A7, 4K), (A8, 4N), (Q5, FY), (A3, 8Y), (RS3, 8Y), (S4, 8W), (S5, F5), (A6, 4A), (Q3, F3), (Q7, 4M))

Filling fuel lines of parking heater/auxiliary heater ((A3, 8Y), (RS3, 8Y), (Q3, F3))

Adapting the fuel burning heater remote control ((A5, F5), (Q8, 4M), (A4, 8W), (A7, 4K), (A8, 4N), (Q5, FY), (A3, 8Y), (RS3, 8Y), (S4, 8W), (S5, F5), (A6, 4A), (Q3, F3), (Q7, 4M))

Initializing the brake-pressure sensor ((S3, 8P), (A3, 8P), (A1, 8X), (S1, 8X), (TT, FV), (A3, 8Y), (RS3, 8Y), (Q3, F3))

Performing transmission adaptations ((A5, F5), (A4, 8W), (TT, FV), (Q5, FY), (A3, 8Y), (RS3, 8Y), (S4, 8W), (S5, F5), (A6, 4A), (A7, 4K), (Q3, F3))

Resetting the warning message of DEF injection system ((A4, 8K), (A6, 4G), (Q5, 8R), (A5, 8F), (A5, 8T), (A7, 4G), (A8, 4H), (A4, 8W), (A5, F5), (Q5, FY))

Adjusting the xenon headlight ((A1, 8X))

Initializing the adaptive cruise control ((TT, FV), (A3, 8Y), (RS3, 8Y), (Q7, 4M))



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Performing the initial run-in of the air conditioning compressor ((A5, F5), (Q8, 4M), (A4, 8W), (TT, FV), (A7, 4K), (A8, 4N), (Q5, FY), (A3, 8Y), (RS3, 8Y), (S4, 8W), (S5, F5), (A6, 4A), (Q3, F3), (Q7, 4M), (R8, 42))

Resetting the start inhibitor of DEF injection system ((A4, 8W), (A3, 8Y), (A5, F5), (A6, 4A), (Q3, F3), (Q5, FY))

Resetting the refrigerant loss counter ((Q8, 4M), (A7, 4K), (A8, 4N), (A6, 4A), (Q7, 4M))

Initializing the oxidation catalyst ((A3, 8Y), (Q3, F3))

Retracting parking brake ((A5, F5), (Q8, 4M), (A4, 8W), (TT, FV), (A7, 4K), (A8, 4N), (Q5, FY), (A3, 8Y), (RS3, 8Y), (S4, 8W), (S5, F5), (A6, 4A), (Q3, F3), (Q4 e-tron, FZ), (Q7, 4M), (R8, 42))

Performing engine adaptations ((A4, 8W), (A8, 4N), (A3, 8Y), (A5, F5), (A6, 4A), (Q3, F3), (Q5, FY))

Special bleeding ((A1, 8X), (S1, 8X), (A3, 8V), (S3, 8V), (TT, FV), (RS3, 8V), (Q2, GA), (A1, GB), (Q3, F3), (RS Q3, F3), (A3, 8Y), (S3, 8Y), (RS3, 8Y))

Initializing the clutch pedal position ((TT, FV), (Q3, F3))

Reducing fuel high pressure ((A5, F5), (TT, FV), (Q5, FY), (A3, 8Y), (A6, 4A), (A7, 4K), (Q3, F3))

Initializing the A/C flap actuators ((A5, F5), (Q8, 4M), (A4, 8W), (TT, FV), (Q5, FY), (A3, 8Y), (RS3, 8Y), (S4, 8W), (S5, F5), (Q3, F3), (Q4 e-tron, FZ), (Q7, 4M), (R8, 42))

Initializing the alternator ((TT, FV), (Q3, F3))

Activating the retrofitted parking heater ((TT, FV), (A3, 8Y), (RS3, 8Y), (Q3, F3))

Learning the turbocharger ((A6, 4G), (A7, 4G))

Filling/topping up the rear axle differential ((A5, F5), (Q8, 4M), (A4, 8W), (A7, 4K), (A8, 4N), (Q5, FY), (S4, 8W), (S5, F5), (A6, 4A), (Q7, 4M))

Adapting the electronic climate control ((A1, 8X), (A7, 4K), (A8, 4N), (A6, 4A))

Adapting the cabin fragrance system ((Q8, 4M), (A7, 4K), (A8, 4N), (A6, 4A), (Q7, 4M))

Configuring the lane change assist ((A5, F5), (Q8, 4M), (A4, 8W), (TT, FV), (A7, 4K), (A8, 4N), (Q5, FY), (S4, 8W), (S5, F5), (A6, 4A), (Q3, F3), (Q7, 4M))

Resetting timing chain adaptation values ((A5, F5), (TT, FV), (Q5, FY), (A3, 8Y), (A6, 4A), (A7, 4K), (Q3, F3))

Resetting the impact mode ((Q7, 4M), (A5, F5), (Q8, 4M), (A4, 8W), (TT, FV), (A7, 4K), (A8, 4N), (Q5, FY), (RS3, 8Y), (S4, 8W), (S5, F5), (A6, 4A), (Q3, F3))

Initializing the neutral position sensor ((A5, F5), (A1, 8X), (TT, FV), (Q5, FY), (A3, 8Y), (A6, 4A), (A7, 4K), (Q3, F3))

Resetting the diesel exhaust fluid level ((A4, 8W), (A8, 4N), (A3, 8Y), (A5, F5), (A6, 4A), (Q3, F3), (Q5, FY))

Initializing the EGR valve ((A6, 4G), (A7, 4G))

Calibrating the parking brake ((A3, 8Y), (RS3, 8Y))

Adjusting the headlights ((A5, F5), (Q8, 4M), (A4, 8W), (TT, FV), (A7, 4K), (A8, 4N), (Q5, FY), (A3, 8Y), (RS3, 8Y), (S4, 8W), (S5, F5), (A6, 4A), (Q3, F3), (Q7, 4M), (R8, 42))

Adapting oil pressure for engine run-in ((A5, F5), (Q8, 4M), (A3, 8V), (Q3, F3), (A1, 8X), (A8, 4N), (TT, FV), (A6, 4A), (Q5, FY), (RS3, 8Y), (A4, 8W), (Q7, 4M))

Bleeding the cooling system ((A3, 8V), (A5, F5), (Q8, 4M), (Q4 e-tron, FZ), (Q3, F3), (TT, FV), (A8, 4N), (A3, 8Y), (A6, 4A), (Q5, FY), (RS3, 8Y), (A4, 8W), (A7, 4K), (Q7, 4M))



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Calibrating the camera ECU ((A4, 8K), (A5, 8F), (A5, 8T), (S5, 8T), (S4, 8K), (Q5, 8R), (RS5, 8T), (S5, 8F), (RS4, 8K), (RS5, 8F), (A5, F5), (Q2, GA), (Q8, 4M), (A3, 8Y), (e-tron GT, FW), (A4, 8W), (TT, FV), (A7, 4K), (A8, 4N), (Q5, FY), (RS3, 8Y), (S4, 8W), (S5, F5), (A6, 4A), (Q3, F3), (Q4 e-tron, FZ), (Q7, 4M))

Replacing emergency battery of emergency call system/telematics system ((A5, F5), (Q8, 4M), (A4, 8W), (A7, 4K), (A8, 4N), (Q5, FY), (S4, 8W), (S5, F5), (A6, 4A), (Q7, 4M))

De-energizing the 48 V system ((Q8, 4M), (A4, 8W), (A7, 4K), (A8, 4N), (S4, 8W), (S5, F5), (A5, F5), (A6, 4A), (Q3, F3))

Extending parking brake ((A5, F5), (Q8, 4M), (A4, 8W), (TT, FV), (A7, 4K), (A8, 4N), (Q5, FY), (A3, 8Y), (RS3, 8Y), (S4, 8W), (S5, F5), (A6, 4A), (Q3, F3), (Q4 e-tron, FZ), (Q7, 4M), (R8, 42))

Adapting the DEF injection system ((A5, 8F), (A5, 8T), (A4, 8K), (Q8, 4M), (A6, 4A), (A4, 8W), (Q7, 4M))

Unlocking aux. heater/independent car heater ((A5, F5), (Q8, 4M), (A4, 8W), (A7, 4K), (A8, 4N), (Q5, FY), (A3, 8Y), (RS3, 8Y), (S4, 8W), (S5, F5), (A6, 4A), (Q3, F3), (Q7, 4M))

Unlocking/locking the self-steering rear axle ((Q8, 4M), (A7, 4K), (A8, 4N), (A6, 4A), (Q7, 4M))

Calibrating the front edge radar ((Q7, 4M), (Q8, 4M), (A7, 4K), (A8, 4N), (A6, 4A))

Changing the drive type ((A3, 8V), (Q3, F3), (A3, 8Y))

Adapting the electronic damper control ((A3, 8Y), (RS3, 8Y), (Q3, F3), (Q4 e-tron, FZ), (R8, 42))

Initializing the transmission ECU ((TT, 8J), (A1, 8X))

### Codings

Coding the trailer hitch ((A1, 8X), (Q3, F3))

General ECU replacement ((A5, F5), (Q8, 4M), (A4, 8W), (A1, 8X), (TT, FV), (A7, 4K), (A8, 4N), (Q5, FY), (S4, 8W), (S5, F5), (A6, 4A), (Q3, F3), (Q7, 4M), (R8, 42))

Registering the battery ((A5, F5), (Q8, 4M), (A4, 8W), (A1, 8X), (TT, FV), (A7, 4K), (A8, 4N), (Q5, FY), (A3, 8Y), (RS3, 8Y), (S4, 8W), (S5, F5), (A6, 4A), (Q3, F3), (Q7, 4M))

Expert mode ECU coding ((A5, F5), (Q8, 4M), (A4, 8W), (A1, 8X), (TT, FV), (A7, 4K), (A8, 4N), (Q5, FY), (S4, 8W), (S5, F5), (A6, 4A), (Q3, F3), (Q7, 4M), (R8, 42))

Coding the rain/light sensor ((A5, F5), (Q8, 4M), (A4, 8W), (A1, 8X), (TT, FV), (A7, 4K), (A8, 4N), (Q5, FY), (A3, 8Y), (RS3, 8Y), (S4, 8W), (S5, F5), (A6, 4A), (Q3, F3), (Q4 e-tron, FZ), (Q7, 4M))

Adjust parking assistance volume ((A1, 8X), (TT, FV), (A3, 8Y), (RS3, 8Y), (Q3, F3), (Q4 e-tron, FZ))

Deactivating/activating the transport mode ((A5, F5), (Q8, 4M), (A4, 8W), (A1, 8X), (TT, FV), (A7, 4K), (A8, 4N), (Q5, FY), (A3, 8Y), (RS3, 8Y), (S4, 8W), (S5, F5), (A6, 4A), (Q3, F3), (Q7, 4M), (R8, 42))

Coding the trailer detection ((A5, F5), (Q8, 4M), (A4, 8W), (A1, 8X), (A7, 4K), (A8, 4N), (Q5, FY), (A3, 8Y), (RS3, 8Y), (S4, 8W), (S5, F5), (A6, 4A), (Q4 e-tron, FZ), (Q7, 4M))

Coding the steering-column module ((A1, 8X), (TT, FV))

Coding the gateway installation list ((A1, 8X), (TT, FV), (A4, 8W), (Q3, F3))

De-/activating the cruise control ((A1, 8X), (TT, FV))

Adapting the trailer hitch to advanced driver assistance systems ((RS Q3, 8U), (A5, F5), (Q8, 4M), (A4, 8W), (A7, 4K), (A8, 4N), (Q5, FY), (S4, 8W), (S5, F5), (A6, 4A), (Q3, F3), (Q7, 4M))

Coding injectors ((Q8, 4M), (A4, 8W), (A8, 4N), (A3, 8Y), (S4, 8W), (S5, F5), (A5, F5), (A6, 4A), (Q3, F3), (Q5, FY), (Q7, 4M))



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Coding the language version of instrument cluster ((TT, FV), (Q3, F3))

Coding the power steering ((A1, 8X))

De/activating the trailer hitch ((A5, F5), (Q8, 4M), (A4, 8W), (A7, 4K), (A8, 4N), (Q5, FY), (A3, 8Y), (RS3, 8Y), (S4, 8W), (S5, F5), (A6, 4A), (Q3, F3), (Q7, 4M))

EJECT button un/locking ((A1, 8X))

Coding the parking assist ((A1, 8X))

**Service resets** (A1, 8X), (A3, 8V), (A3, 8Y), (A4, 8W), (A5, F5), (A6, 4A), (A7, 4K), (A8, 4N), (Q3, F3), (Q4 e-tron, FZ), (Q5, FY), (Q7, 4M), (Q8, 4M), (R8, 42), (RS3, 8Y), (S4, 8W), (S5, F5), (TT, FV)

**DoIP/CAN**

**Capable for diagnostics only with mega macs X**

**Cyber Security Management (CSM)** (A3, 8Y), (S3, 8Y), (Q4 e-tron, FZ), (RS3, 8Y)

**Capable for diagnostics only with Cyber Security Management**

### BMW

**Trouble codes** (1 Ser., E81), (1 Ser., E82), (1 Ser., E87), (1 Ser., E88), (1 Ser., F20), (1 Ser., F21), (1 Ser., F40), (2 Ser., F22), (2 Ser., F23), (2 Ser., F87), (2 Ser., U06), (3 Ser., E46), (3 Ser., E90), (3 Ser., E91), (3 Ser., E92), (3 Ser., E93), (3 Ser., F30), (3 Ser., F31), (3 Ser., F34), (3 Ser., F80), (3 Ser., G20), (3 Ser., G21), (4 Ser., F32), (4 Ser., F33), (4 Ser., F36), (4 Ser., F82), (4 Ser., F83), (4 Ser., G22), (4 Ser., G23), (4 Ser., G26), (5 Ser., E39), (5 Ser., E60), (5 Ser., E61), (5 Ser., F90), (5 Ser., G30), (5 Ser., G31), (6 Ser., E63), (6 Ser., E64), (7 Ser., F01), (7 Ser., F02), (7 Ser., F04), (7 Ser., G11), (7 Ser., G12), (i3, I01), (iX, I20), (iX3, G08), (X1, E84), (X1, F48), (X2, F39), (X3, G01), (X4, F26), (X4, G02), (X5, E70), (X5, F15), (X5, F85), (X5, F95), (X6, E71), (X6, E72), (X6, F16), (X6, F86), (Z4, G29), (Z8, E52)

**Parameters** (1 Ser., F40), (2 Ser., F44), (2 Ser., F87), (2 Ser., U06), (3 Ser., F80), (4 Ser., F32), (4 Ser., F33), (4 Ser., F82), (4 Ser., F83), (4 Ser., G22), (4 Ser., G23), (4 Ser., G26), (5 Ser., E39), (5 Ser., F90), (7 Ser., G11), (7 Ser., G12), (i3, I01), (iX, I20), (X2, F39), (X5, F95), (X5, G05), (X6, G06), (X7, G07), (Z8, E52)

**Actuators** (1 Ser., F20), (1 Ser., F21), (1 Ser., F40), (2 Ser., F22), (2 Ser., F23), (2 Ser., F44), (2 Ser., F87), (2 Ser., U06), (3 Ser., F30), (3 Ser., F31), (3 Ser., F34), (3 Ser., F80), (4 Ser., F32), (4 Ser., F33), (4 Ser., F36), (4 Ser., F82), (4 Ser., F83), (4 Ser., G22), (4 Ser., G23), (4 Ser., G26), (5 Ser., E39), (5 Ser., F07), (5 Ser., F90), (5 Ser., G30), (5 Ser., G31), (6 Ser., F06), (6 Ser., F12), (6 Ser., F13), (7 Ser., G11), (7 Ser., G12), (i3, I01), (iX, I20), (iX3, G08), (X3, F25), (X5, F95), (X6, G06), (X7, G07), (Z8, E52)

**Basic settings** Activating the fuel pump ((4 Ser., G26))  
 Resetting adaptation values of the EGR cooling system ((X5, G05), (X7, G07), (X6, G06), (X5, F95), (4 Ser., G26))  
 Resetting fuel system adaptation values ((X1, F48), (4 Ser., G26))



## Diagnostic devices

Taking the active steering into operation ((5 Ser., F07), (5 Ser., F11), (5 Ser., F10), (7 Ser., F01), (7 Ser., F02), (6 Ser., F13), (6 Ser., F06), (6 Ser., F12))

Initializing the exhaust gas flap ((X1, F48))

Initializing the air suspension ((7 Ser., F01), (7 Ser., F02), (X5, F15), (X6, F16), (8 Ser., G15), (X5, G05), (3 Ser., G20), (8 Ser., G14), (X7, G07), (3 Ser., G21), (8 Ser., G16), (X6, G06), (X5, F95), (4 Ser., G26))

Resetting learned values of the induction system ((4 Ser., G26))

Resetting EGR valve learning values ((4 Ser., G26))

Initializing the turn signal front ((3 Ser., F34), (4 Ser., F32), (4 Ser., F33))

Initializing the EGR valve ((4 Ser., G26))

Reset exhaust-gas aftertreatment learning values ((4 Ser., G26))

Initializing the valve stroke adaptation ((X1, F48), (7 Ser., G12), (7 Ser., G11))

Adapting the clutch biting point ((6 Ser., F13), (6 Ser., F12), (2 Ser., F87), (3 Ser., F80), (4 Ser., F82))

Resetting the mixture adjustment ((X1, F48), (4 Ser., G26))

Resetting the pulse-generator ring adaptation ((X1, F48), (4 Ser., G26))

Unlocking the electric auxiliary heater ((4 Ser., G26))

Adapting the A/C compressor ((4 Ser., G26))

Draining/filling the refrigerant circuit ((i8, I12), (i8, I15), (4 Ser., G26))

Calibrating the front camera ((iX, I20), (2 Ser., U06), (4 Ser., G26))

Resetting long-term adaptation values of diesel exhaust fluid dosing module ((4 Ser., G26))

Initializing the air distribution flaps ((2 Ser., F87), (3 Ser., F80), (2 Ser., F22), (4 Ser., F82), (4 Ser., F83), (2 Ser., F23))

Calibrating the night vision assist ((7 Ser., G11), (7 Ser., G12), (X7, G07), (X5, F95))

Unlocking aux. heater/independent car heater ((Z4, G29), (2 Ser., F44), (4 Ser., G26))

Replacing the lean NOx catalyst ((4 Ser., G26))

Resetting the start inhibitor of DEF injection system ((4 Ser., G26))

De/activating the parking brake service mode ((2 Ser., U06), (4 Ser., G26))

Resetting learned values of throttle valve actuator ((X1, F48), (4 Ser., G26))

Adjusting the boost control rod ((4 Ser., G26))

Initializing the electronic stability control sensors ((i3, I01), (4 Ser., F82), (4 Ser., F83))

Resetting transfer case adaptation values ((3 Ser., E92), (3 Ser., E90), (3 Ser., E91), (5 Ser., E61))

Activating the assembly position of the exhaust gas flap actuator ((5 Ser., F11), (3 Ser., F30), (1 Ser., F20), (5 Ser., F10), (3 Ser., F31), (3 Ser., F34), (4 Ser., F32), (4 Ser., F33), (4 Ser., F36), (2 Ser., F23), (X1, F48), (4 Ser., G26))

Resetting gearbox learning values ((1 Ser., F20), (1 Ser., F21), (5 Ser., F90), (Z4, G29), (4 Ser., G22), (4 Ser., G23), (4 Ser., G26))

Performing the internal tank pressure sensor synchronization ((7 Ser., G11))

Taking the DEF tank system into operation ((4 Ser., G26))



## Diagnostic devices

- Moving the air distribution flaps to service position ((Z4, G29), (4 Ser., G26))
- Resetting adaptation values of transmission torque characteristic ((6 Ser., F13), (6 Ser., F12), (2 Ser., F87), (3 Ser., F80), (4 Ser., F82))
- Initializing the angular offset between the crankshaft and camshaft ((X2, F39), (4 Ser., G26))
- Resetting the valve stroke adaptation initialization values ((X1, F48), (4 Ser., G26))
- Initializing the rain/light sensor ((8 Ser., F92), (4 Ser., G26))
- Initializing the ride height sensor ((6 Ser., F06), (6 Ser., F12))
- Resetting learned values upon VTG oil change ((5 Ser., E61))
- Resetting learned values of the high-pressure fuel controller ((4 Ser., G26))
- Initialize minimum quantity deviation of the injectors ((7 Ser., G12), (7 Ser., G11), (4 Ser., G26))
- Initializing the variable valve lift ((4 Ser., G26))
- Taking the steering into operation ((7 Ser., G11), (7 Ser., G12), (5 Ser., G31), (5 Ser., G30), (5 Ser., F90), (8 Ser., G15), (X5, G05), (3 Ser., G20), (Z4, G29), (8 Ser., G14), (X7, G07), (1 Ser., F40), (3 Ser., G21), (8 Ser., G16), (X6, G06), (4 Ser., G22), (8 Ser., F92), (X5, F95), (4 Ser., G23), (4 Ser., G26))
- Deactivating the transport mode of ride height leveling/damper control ((3 Ser., G20), (3 Ser., G21), (X6, G06), (4 Ser., G22), (4 Ser., G23), (4 Ser., G26))
- Calibrating the radar sensor ((iX, I20), (2 Ser., U06), (4 Ser., G26))
- Resetting the quantity mean value adaptation ((4 Ser., G26))
- Bleeding the brake system ((3 Ser., G20), (Z4, G29), (3 Ser., G21), (4 Ser., G22), (4 Ser., G23), (4 Ser., G26))
- Resetting transfer case adaptation values ((4 Ser., F82), (4 Ser., F83), (7 Ser., G11), (7 Ser., G12), (4 Ser., G22), (4 Ser., G23), (4 Ser., G26))
- Initializing the sunroof anti-pinch protection ((7 Ser., F04), (i3, I01), (8 Ser., G15), (X5, G05), (3 Ser., G20), (X7, G07), (3 Ser., G21), (8 Ser., G16), (X6, G06), (8 Ser., F92), (X5, F95), (4 Ser., G26))
- Standardizing the liftgate ((4 Ser., F32), (4 Ser., F36), (4 Ser., G26))
- Configuring the lane change assist ((7 Ser., F01), (7 Ser., F02), (4 Ser., G26))
- Filling/bleeding the diesel exhaust fluid line ((4 Ser., G26))
- Reset fuel pump learning values ((4 Ser., G26))
- Actuating the assembly position of the EGR valve ((4 Ser., G26))
- Initializing pre-programmed keys ((i3, I01), (i8, I12), (i8, I15))
- Initialize classification resistance of transfer case ((3 Ser., E90), (3 Ser., E91), (3 Ser., E92), (5 Ser., E61))
- Gearbox adaptation ((6 Ser., F13), (6 Ser., F06), (6 Ser., F12), (2 Ser., F87), (3 Ser., F80), (4 Ser., F82), (4 Ser., F83))
- Initializing the glow plugs ((4 Ser., G26))
- Bleeding the fuel system ((4 Ser., G26))
- Readdressing air distribution flaps ((1 Ser., F20), (1 Ser., F21), (3 Ser., F30), (3 Ser., F31), (3 Ser., F34), (2 Ser., F87), (4 Ser., F32), (4 Ser., F36), (3 Ser., F80), (2 Ser., F22), (4 Ser., F82), (4 Ser., F83), (2 Ser., F23), (5 Ser., G31), (5 Ser., G30))



## Diagnostic devices

- Replacing components of DEF injection system ((4 Ser., G26))
- Deactivating the service mode of SCR ECU ((4 Ser., G26))
- Bleeding the cooling system ((X3, F25), (X1, F48), (4 Ser., G26))
- Regenerating the soot particulate filter ((4 Ser., G26))
- Adapting the variable camshaft timing ((4 Ser., G26))
- Resetting mass airflow sensor adaptation values ((4 Ser., G26))
- Interchanged brake pipe check ((4 Ser., F32), (4 Ser., F36))
- Replacing the particle filter ((4 Ser., G26))
- Correcting the wear limit of brake linings ((5 Ser., F07), (7 Ser., F01), (7 Ser., F02), (6 Ser., F13), (6 Ser., F06), (6 Ser., F12), (7 Ser., F04), (X5, F15), (X6, F16))
- De-energizing the 48 V system ((4 Ser., G26))
- Filling/bleeding the pneumatic suspension system ((3 Ser., G20), (3 Ser., G21), (X6, G06), (4 Ser., G22), (4 Ser., G23), (4 Ser., G26))
- Adapting the headlight motor ((7 Ser., F01), (7 Ser., F02), (i3, I01), (i8, I12), (i8, I15))
- Resetting the swirl flap adaptation values ((4 Ser., G26))
- Calibrating the rearview camera/all-round vision camera ((i3, I01), (3 Ser., G20), (Z4, G29), (3 Ser., G21), (4 Ser., G22), (8 Ser., F92), (4 Ser., G26))
- Resetting differential pressure sensor learning values ((7 Ser., G12), (7 Ser., G11))
- Initialize acceleration sensor ((4 Ser., G26))
- Resetting starter learning values ((X1, F48), (7 Ser., G12), (7 Ser., G11))
- Activating the roller test stand mode ((6 Ser., F06), (6 Ser., F12))

**| Codings**                      Coding injectors ((6 Ser., F12), (4 Ser., G26))  
    Registering the battery ((4 Ser., G26))

**| Service resets**                (4 Ser., G26)

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**| DoIP/CAN**  
**| Capable for diagnostics only with mega macs X**

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**| Cyber Security Management (CSM)**  
**| Capable for diagnostics only with Cyber Security Management**

### Citroen

- | Trouble codes**                (Berlingo-III, 7), (Berlingo-IV, E), (C1, P), (C4, B), (C8, E), (C8, V), (Jumpy-IV, V), (SpaceTourer, V)
- | Parameters**                    (C1, P), (Jumpy-IV, V)



## Diagnostic devices

- | **Actuators** (Jumpy-IV, V)
- | **Basic settings**
  - Adapting the longitudinal acceleration sensor ((Jumpy-IV, V))
  - Calibrating the radar sensor ((Jumpy-IV, V))
  - Initializing the rotor position sensor ((Jumpy-IV, V))
  - Leaving the ECO mode ((Jumpy-IV, V))
  - Initializing the rain/light sensor ((Jumpy-IV, V))
  - Bleeding the cooling system ((Jumpy-IV, V))
  - ECU of high-voltage safety shutdown ((Jumpy-IV, V))
  - Draining the cooling system ((Jumpy-IV, V))
  - Locking the airbag ECU ((Jumpy-IV, V))
  - Special bleeding ((Jumpy-IV, V))
  - Learning the steering-angle sensor ((C-Zero, 1), (C1, P))
  - Reactivating the emergency brake assistant ((Jumpy-IV, V))
  - Replacing the particle filter ((Berlingo-III, 7))
  - Unlocking the airbag ECU ((Jumpy-IV, V))
  - Filling the cooling system ((Jumpy-IV, V))
  - Replacing/filling the regeneration additive container ((C6, T), (C5, R))
  - Replace brake parts ((Jumpy-IV, V))
  - Initializing the A/C flap actuators ((C4 Picasso, U), (C4 Picasso, 3), (Jumpy-IV, V))
  - Cleaning/replacing the soot particulate filter ((C6, T), (C5, R))
  - Calibrating the steering-angle sensor ((Jumpy-IV, V))
  - Calibrating the front camera ((Jumpy-IV, V))
- | **Codings**
  - Coding the trailer hitch ((Jumpy-IV, V))
  - Coding the intrusion monitoring ((Jumpy-IV, V))
  - Registering the battery ((Jumpy-IV, V))
  - Coding the keys ((Jumpy-IV, V))
  - Coding the demanded tyre pressure ((Jumper-III, Y (EU5)), (Jumper-IV, Y (EU6)))
  - Synchronisation of the remote control ((Jumpy-IV, V))
  - Coding injectors ((C4 Picasso, U), (Berlingo-III, 7), (C4, L), (C5, R), (C3 Picasso, SH), (Nemo, A))
  - Coding the alarm sound ((Jumpy-IV, V))
- | **Service resets** (Jumpy-IV, V)



## Diagnostic devices

- | DoIP/CAN
  - | Capable for diagnostics only with mega macs X
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- | Cyber Security Management (CSM)
- | Capable for diagnostics only with Cyber Security Management

### Cupra

- | **Trouble codes** (Born, K1), (Formentor, KM), (Leon, KL)
- | **Parameters** (Born, K1), (Formentor, KM), (Leon, KL)
- | **Actuators** (Born, K1), (Formentor, KM), (Leon, KL)
- | **Basic settings**
  - Initializing electric seats ((Formentor, KM), (Leon, KL))
  - Filling fuel lines of parking heater/auxiliary heater ((Formentor, KM), (Leon, KL))
  - Regenerating the soot particulate filter ((Formentor, KM), (Leon, KL))
  - Resetting engine adaptation values ((Formentor, KM), (Leon, KL))
  - Initializing the ESC sensors ((Formentor, KM))
  - Adapting the electronic damper control ((Formentor, KM), (Leon, KL))
  - Bleeding the fuel system ((Leon, KL))
  - Burning off aux. heater/independent car heater ((Formentor, KM), (Leon, KL))
  - Changing and checking DCT fluid ((Formentor, KM), (Leon, KL))
  - Performing transmission adaptations ((Formentor, KM), (Leon, KL))
  - Standardizing the liftgate ((Formentor, KM))
  - Initialize actuator of coolant temperature control ((Formentor, KM), (Leon, KL))
  - Adapting the soot particulate filter ((Formentor, KM), (Leon, KL))
  - Learning the steering-angle sensor ((Formentor, KM), (Leon, KL))
  - Learning the throttle valve ((Formentor, KM), (Leon, KL))
  - Initializing the tilt/slide sunroof ((Formentor, KM), (Leon, KL))
  - Initializing the brake-pressure sensor ((Formentor, KM))
  - Initialising the boost pressure regulator ((Formentor, KM), (Leon, KL))
  - Retracting parking brake ((Formentor, KM))
  - Performing the initial run-in of the air conditioning compressor ((Formentor, KM), (Leon, KL))
  - Initializing the adaptive cruise control ((Formentor, KM), (Leon, KL))
  - Special bleeding ((Formentor, KM))



## Diagnostic devices

- Reducing fuel high pressure ((Formentor, KM), (Leon, KL))
- Initializing the A/C flap actuators ((Formentor, KM), (Leon, KL))
- Activating the retrofitted parking heater ((Formentor, KM), (Leon, KL))
- Resetting timing chain adaptation values ((Formentor, KM), (Leon, KL))
- Initializing the neutral position sensor ((Formentor, KM), (Leon, KL))
- Adapting the radiator shutter ((Born, K1))
- Calibrating the parking brake ((Formentor, KM))
- Adjusting the headlights ((Formentor, KM), (Leon, KL))
- Bleeding the cooling system ((Formentor, KM), (Leon, KL), (Born, K1))
- Calibrating the camera ECU ((Formentor, KM), (Leon, KL))
- Adapting the fuel burning heater remote control ((Formentor, KM), (Leon, KL))
- Extending parking brake ((Formentor, KM))
- Unlocking aux. heater/independent car heater ((Formentor, KM), (Leon, KL))
- Changing the drive type ((Formentor, KM), (Leon, KL))
- Activating the roller test stand mode ((Formentor, KM))

- | **Codings**
  - Adjust parking assistance volume ((Formentor, KM), (Leon, KL))
  - Registering the battery ((Formentor, KM))
  - Coding the rain/light sensor ((Formentor, KM), (Leon, KL))
  - Deactivating/activating the transport mode ((Formentor, KM))
  - Coding the trailer detection ((Formentor, KM), (Leon, KL))
  - De/activating the trailer hitch ((Formentor, KM))

- | **Service resets** (Formentor, KM), (Leon, KL)

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- | **DoIP/CAN**

- | **Capable for diagnostics only with mega macs X**

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- | **Cyber Security Management (CSM)** (Formentor, KM), (Leon, KL), (Born, K1)

- | **Capable for diagnostics only with Cyber Security Management**

### Dacia

- | **Trouble codes** (Spring Electric, DBG)

- | **Parameters** (Spring Electric, DBG)

- | **Actuators**



## Diagnostic devices

<b>Basic settings</b>	<p>Calibrate radar dynamically ((Spring Electric, DBG))</p> <p>Resetting learned values of steering angle sensor ((Spring Electric, DBG))</p> <p>Bleeding the ABS hydraulic unit ((Spring Electric, DBG))</p> <p>Learning the steering-angle sensor ((Spring Electric, DBG))</p>
<b>Codings</b>	<p>Coding the language version ((Spring Electric, DBG))</p> <p>Airbag ECU locking/unlocking ((Spring Electric, DBG))</p>
<b>Service resets</b>	
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<b>DoIP/CAN</b>	
<b>Capable for diagnostics only with mega macs X</b>	
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<b>Cyber Security Management (CSM)</b>	
<b>Capable for diagnostics only with Cyber Security Management</b>	
<b>Fiat</b>	
<b>Trouble codes</b>	(500 (332), 332), (Aegea (356), 356), (Bravo (198), 198), (Ducato-VI (290), 290 (EU5)), (Ducato-VI (290), 290 (EU6D)), (Tipo (356), 356)
<b>Parameters</b>	(Aegea (356), 356), (Bravo (198), 198), (Ducato-VI (290), 290 (EU5)), (Ducato-VI (290), 290 (EU6)), (Ducato-VI (290), 290 (EU6D)), (Tipo (356), 356)
<b>Actuators</b>	(Bravo (198), 198)
<b>Basic settings</b>	<p>Selespeed adaptation ((Ducato-V (250), 250FL), (Ducato-VI (290), 290 (EU5)))</p> <p>Resetting learned values of oxygen sensor 2 ((Tipo (356), 356), (Aegea (356), 356))</p> <p>Resetting learned values of oxygen sensor 1 ((Tipo (356), 356), (Aegea (356), 356))</p> <p>Resetting the variable turbocharger adaptation values ((Tipo (356), 356), (Aegea (356), 356))</p> <p>Adapting the zero position of the pulse-generator ring ((Tipo (356), 356), (Aegea (356), 356))</p> <p>Resetting differential pressure sensor learning values ((Bravo (198), 198))</p> <p>Replacing the particle filter ((Ducato-V (250), 250FL))</p> <p>Resetting air filter learned values ((Ducato-VI (290), 290 (EU6D)))</p> <p>Regenerating the soot particulate filter ((Panda (169), 169), (Bravo (198), 198), (Ducato-VI (290), 290 (EU6D)))</p> <p>Resetting the indicator light "Water in fuel" ((Ducato-VI (290), 290 (EU5)), (Ducato-VI (290), 290 (EU6)))</p> <p>Resetting learned values of fuel pressure regulator ((Tipo (356), 356), (Aegea (356), 356))</p> <p>Initializing the neutral position sensor ((Tipo (356), 356), (Aegea (356), 356))</p>



## Diagnostic devices

- | **Codings**                      Coding injectors ((Bravo (198), 198))
- | **Service resets**              (Aegea (356), 356), (Ducato-VI (290), 290 (EU6D)), (Tipo (356), 356)

- | **DoIP/CAN**
- | **Capable for diagnostics only with mega macs X**

- | **Cyber Security Management (CSM)**              (500 (332), 332)
- | **Capable for diagnostics only with Cyber Security Management**

### Ford

- | **Trouble codes**              (B-Max, JK8), (C-Max 02, DM2), (Ecosport, JK8), (Edge, TK), (Fiesta 08, JHH,JGH), (Focus 04, DYB), (Focus 06, HN), (Kuga 02, DM2), (Kuga 03, DM2), (Mondeo 04, BA7), (Mondeo 05, BA7), (Mustang Mach-E, LSK), (Puma 02, J2K), (Ranger 05, 2AB), (Tourneo Connect 03, PU2), (Transit 09, FAE6), (Transit 10, FED), (Transit 11, FAC)
- | **Parameters**                  (B-Max, JK8), (C-Max 02, DM2), (Ecosport, JK8), (Edge, TK), (Fiesta 08, JHH,JGH), (Focus 06, HN), (Kuga 02, DM2), (Kuga 03, DM2), (Mondeo 04, BA7), (Mondeo 05, BA7), (Puma 02, J2K), (Ranger 05, 2AB), (Tourneo Connect 03, PU2), (Transit 09, FAE6), (Transit 10, FED), (Transit 11, FAC)
- | **Actuators**                      (C-Max 02, DM2), (Mondeo 04, BA7)
- | **Basic settings**              Adapting the longitudinal acceleration sensor ((Ranger 05, 2AB), (Edge, TK), (Mondeo 05, BA7))  
  
Resetting fuel system adaptation values ((Tourneo Connect 03, FAC), (Transit 11, FAC), (Transit 11, FCC), (Transit 11, FAD), (Transit 11, FCD,FDD), (Transit 11, FFD,FED), (Transit 11, ), (Transit 11, FCD), (Transit 11, FED,FFD), (Transit 11, FBD), (Transit 11, FED))  
  
Resetting learned values of the interface module ((Fiesta 08, JHH,JGH), (Fiesta 08, JHH), (Fiesta 08, JGH))  
  
Reset yaw rate sensor learning values ((Ecosport, JK8), (B-Max, JK8))  
  
Learning the power windows ((Tourneo Connect 03, PU2), (Ecosport, JK8), (Tourneo Connect 03, PJ2), (Tourneo Connect 03, JN8), (Transit 10, FED), (Transit 10, 81), (Transit 10, FAD), (Tourneo Connect 03, JU2), (Tourneo Connect 03, ), (Transit 10, FED,FFD), (Transit 10, FAC), (Transit 10, FAD,FBD), (Transit 10, FCD,FDD), (Transit 10, FFD,FED), (Mondeo 05, BA7))  
  
Reset learned values of injectors. ((Tourneo Connect 03, PU2), (Tourneo Connect 03, PJ2), (Tourneo Connect 03, JN8), (Tourneo Connect 03, JU2), (Tourneo Connect 03, ), (Kuga 03, DFK))  
  
Initialize tire pressure sensors ((Tourneo Connect 03, PU2), (Transit 09, FAE6), (Ecosport, JK8), (Tourneo Connect 03, PJ2), (Tourneo Connect 03, JN8), (Ranger 05, 2AB), (Transit 10, FED), (Kuga 02, DM2), (Mondeo 04, BA7), (Transit 09, FDF6,FDG6,FDE6,FBE6,FZE6), (Transit 10, FAD), (Tourneo Connect 03, FAC), (Edge, TK), (B-Max, JK8), (Focus 06, HN), (Focus 06, HP), (Tourneo Connect 03, JU2), (Transit 09, FDA6,FDC6,FDB6), (Tourneo Connect 03, ),



## Diagnostic devices

(Transit 11, FAC), (Transit 09, FAC), (Transit 11, FCC), (Transit 09, FCC), (Transit 09, FAA6, FEB6, FEC6, FAB6, FED6, FAD6, FAC6), (Transit 09, FAA6, FAB6, FAD6, FAC6, FSA6, FSB6, FSC6), (Transit 09, FNF6, FMG6, FMF6, FME6), (Transit 09, FMB6, FNB6, FMC6, FNC6, FMA6, FND6, FMD6), (Transit 09, ), (Transit 11, FAD), (Transit 11, FCD, FDD), (Transit 11, FFD, FED), (Transit 10, FED, FFD), (Kuga 03, DM2), (Transit 09, FDE6, FDF6, FDG6, FZE6), (Transit 10, FAC), (Transit 09, FEF6, FEG6, FAG6, FAE6, FAF6, FSE6, FSF6, FSG6), (Transit 09, FAE6, FAG6, FSE6, FSF6, FSG6, FAF6, FEF6, FEG6), (Transit 09, FEB6, FAA6, FEC6, FAB6, FED6, FAD6, FAC6), (Transit 09, FNF6, FMG6, FMH6, FMF6, FFF6, FFG6, FME6), (Transit 09, FME6, FMG6, FMH6, FNF6, FMF6, FFG6, FFH6, FFF6), (Transit 09, FGD6, FGC6, FGB6, FFB6, FFD6, FFC6, FMB6, FNB6, FMC6, FNC6, FMA6, FND6, FMD6), (Transit 09, FBE6), (Transit 11, ), (Transit 10, FAD, FBD), (Transit 10, FCD, FDD), (Transit 11, FCD), (Transit 11, FED, FFD), (Transit 10, FFD, FED), (Fiesta 08, JHH, JGH), (Fiesta 08, JHH), (Kuga 03, DFK), (Puma 02, J2K), (Fiesta 08, JGH), (Mondeo 05, BA7), (Transit 11, FBD), (Transit 11, FED))

Initializing the yaw rate sensor ((Mondeo 04, BA7))

Resetting mass airflow sensor adaptation values ((Kuga 03, DFK))

Standardizing the liftgate ((Kuga 02, DM2))

Adapting the longitudinal acceleration sensor ((Transit 09, FAE6), (Transit 10, FED), (Transit 09, FDF6, FDG6, FDE6, FBE6, FZE6), (Transit 10, FAD), (Tourneo Connect 03, FAC), (Transit 09, FDA6, FDC6, FDB6), (Transit 11, FAC), (Transit 09, FAC), (Transit 11, FCC), (Transit 09, FCC), (Transit 09, FAA6, FEB6, FEC6, FAB6, FED6, FAD6, FAC6), (Transit 09, FAA6, FAB6, FAD6, FAC6, FSA6, FSB6, FSC6), (Transit 09, FNF6, FMG6, FMF6, FME6), (Transit 09, FMB6, FNB6, FMC6, FNC6, FMA6, FND6, FMD6), (Transit 09, ), (Transit 11, FAD), (Transit 11, FCD, FDD), (Transit 11, FFD, FED), (Transit 10, FED, FFD), (Transit 09, FDE6, FDF6, FDG6, FZE6), (Transit 10, FAC), (Transit 09, FEF6, FEG6, FAG6, FAE6, FAF6, FSE6, FSF6, FSG6), (Transit 09, FAE6, FAG6, FSE6, FSF6, FSG6, FAF6, FEF6, FEG6), (Transit 09, FEB6, FAA6, FEC6, FAB6, FED6, FAD6, FAC6), (Transit 09, FNF6, FMG6, FMH6, FMF6, FFF6, FFG6, FME6), (Transit 09, FME6, FMG6, FMH6, FNF6, FMF6, FFG6, FFH6, FFF6), (Transit 09, FGD6, FGC6, FGB6, FFB6, FFD6, FFC6, FMB6, FNB6, FMC6, FNC6, FMA6, FND6, FMD6), (Transit 09, FBE6), (Transit 11, ), (Transit 10, FAD, FBD), (Transit 10, FCD, FDD), (Transit 11, FCD), (Transit 11, FED, FFD), (Transit 10, FFD, FED), (Transit 11, FBD), (Transit 11, FED))

Resetting knock sensor adaptation values ((Mondeo 04, BA7))

Adjusting the xenon headlight ((C-Max 02, DA3), (Kuga 02, DM2))

Resetting rail pressure ((Ranger 05, 2AB), (Tourneo Connect 03, PJ2), (Tourneo Connect 03, PU2), (Tourneo Connect 03, JN8), (Tourneo Connect 03, ))

Resetting radiator fan learning values ((Mondeo 04, BA7))

Resetting the turbocharger upon cleaning ((Tourneo Connect 03, PU2), (Tourneo Connect 03, PJ2), (Tourneo Connect 03, JN8), (Tourneo Connect 03, JU2), (Tourneo Connect 03, ))

Resetting mass airflow sensor adaptation values ((Tourneo Connect 03, PU2), (Ranger 05, 2AB), (Tourneo Connect 03, PJ2), (Tourneo Connect 03, JN8), (Tourneo Connect 03, JU2), (Tourneo Connect 03, ))

Initializing the lateral acceleration sensor ((Ecosport, JK8), (Mondeo 04, BA7))

Bleeding the ABS/ESC system ((Tourneo Connect 03, PU2), (Tourneo Connect 03, PJ2), (Tourneo Connect 03, JN8), (Kuga 02, DM2), (Edge, TK), (Tourneo Connect 03, JU2), (Tourneo Connect 03, ))

Learning the power windows ((Transit 09, FAE6), (Ranger 05, 2AB), (Kuga 02, DM2), (Mondeo 04, BA7), (Transit 09, FDF6, FDG6, FDE6, FBE6, FZE6), (Tourneo Connect 03, FAC), (Edge, TK), (B-Max, JK8), (Transit 09, FDA6, FDC6, FDB6), (Transit 11, FAC), (Transit 09, FAC), (Transit 11, FCC), (Transit 09, FCC), (Transit 09, FAA6, FEB6, FEC6, FAB6, FED6, FAD6, FAC6),



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(Transit 09, FAA6,FAB6,FAD6,FAC6,FSA6,FSB6,FSC6), (Transit 09, FNF6,FMG6,FMF6,FME6), (Transit 09, FMB6,FNB6,FMC6,FNC6,FMA6,FND6,FMD6), (Transit 09, ), (Transit 11, FAD), (Transit 11, FCD,FDD), (Transit 11, FFD,FED), (Transit 09, FDE6,PDF6,FDG6,FZE6), (Transit 09, FEF6,FEG6,FAG6,FAE6,FAF6,FSE6,FSF6,FSG6), (Transit 09, FAE6,FAG6,FSE6,FSF6,FSG6,FAF6,FEF6,FEG6), (Transit 09, FEB6,FAA6,FEC6,FAB6,FED6,FAD6,FAC6), (Transit 09, FNF6,FMG6,FMH6,FMF6,FFF6,FFG6,FME6), (Transit 09, FME6,FMG6,FMH6,FNF6,FMF6,FFG6,FFH6,FFF6), (Transit 09, FGD6,FGC6,FGB6,FFB6,FFD6,FFC6,FMB6,FNB6,FMC6,FNC6,FMA6,FND6,FMD6), (Transit 09, FBE6), (Transit 11, ), (Transit 11, FCD), (Transit 11, FED,FFD), (Transit 11, FBD), (Transit 11, FED))

Resetting the variable turbocharger adaptation values ((Tourneo Connect 03, PU2), (Transit 09, FAE6), (Ranger 05, 2AB), (Tourneo Connect 03, PJ2), (Tourneo Connect 03, JN8), (Transit 10, FED), (Transit 10, 81), (Transit 09, FDF6,FDG6,FDE6,FBE6,FZE6), (Transit 10, FAD), (Tourneo Connect 03, FAC), (B-Max, JK8), (Ecosport, JK8), (Tourneo Connect 03, JU2), (Transit 09, FDA6,FDC6,FDB6), (Tourneo Connect 03, ), (Transit 11, FAC), (Transit 09, FAC), (Transit 11, FCC), (Transit 09, FCC), (Transit 09, FAA6,FEB6,FEC6,FAB6,FED6,FAD6,FAC6), (Transit 09, FAA6,FAB6,FAD6,FAC6,FSA6,FSB6,FSC6), (Transit 09, FNF6,FMG6,FMF6,FME6), (Transit 09, FMB6,FNB6,FMC6,FNC6,FMA6,FND6,FMD6), (Transit 09, ), (Transit 11, FAD), (Transit 11, FCD,FDD), (Transit 11, FFD,FED), (Transit 10, FED,FFD), (Transit 09, FDE6,PDF6,FDG6,FZE6), (Transit 10, FAC), (Transit 09, FEF6,FEG6,FAG6,FAE6,FAF6,FSE6,FSF6,FSG6), (Transit 09, FAE6,FAG6,FSE6,FSF6,FSG6,FAF6,FEF6,FEG6), (Transit 09, FEB6,FAA6,FEC6,FAB6,FED6,FAD6,FAC6), (Transit 09, FNF6,FMG6,FMH6,FMF6,FFF6,FFG6,FME6), (Transit 09, FME6,FMG6,FMH6,FNF6,FMF6,FFG6,FFH6,FFF6), (Transit 09, FGD6,FGC6,FGB6,FFB6,FFD6,FFC6,FMB6,FNB6,FMC6,FNC6,FMA6,FND6,FMD6), (Transit 09, FBE6), (Transit 11, ), (Transit 10, FAD,FBD), (Transit 10, FCD,FDD), (Transit 11, FCD), (Transit 11, FED,FFD), (Transit 10, FFD,FED), (Transit 11, FBD), (Transit 11, FED))

Resetting the intake manifold flap learning values ((Tourneo Connect 03, PU2), (Transit 09, FAE6), (Ranger 05, 2AB), (Tourneo Connect 03, PJ2), (Tourneo Connect 03, JN8), (Transit 10, FED), (Transit 10, 81), (Mondeo 04, BA7), (Transit 09, FDF6,FDG6,FDE6,FBE6,FZE6), (Transit 10, FAD), (Tourneo Connect 03, FAC), (B-Max, JK8), (Ecosport, JK8), (Tourneo Connect 03, JU2), (Transit 09, FDA6,FDC6,FDB6), (Tourneo Connect 03, ), (Transit 11, FAC), (Transit 09, FAC), (Transit 11, FCC), (Transit 09, FCC), (Transit 09, FAA6,FEB6,FEC6,FAB6,FED6,FAD6,FAC6), (Transit 09, FAA6,FAB6,FAD6,FAC6,FSA6,FSB6,FSC6), (Transit 09, FNF6,FMG6,FMF6,FME6), (Transit 09, FMB6,FNB6,FMC6,FNC6,FMA6,FND6,FMD6), (Transit 09, ), (Transit 11, FAD), (Transit 11, FCD,FDD), (Transit 11, FFD,FED), (Transit 10, FED,FFD), (Transit 09, FDE6,PDF6,FDG6,FZE6), (Transit 10, FAC), (Transit 09, FEF6,FEG6,FAG6,FAE6,FAF6,FSE6,FSF6,FSG6), (Transit 09, FAE6,FAG6,FSE6,FSF6,FSG6,FAF6,FEF6,FEG6), (Transit 09, FEB6,FAA6,FEC6,FAB6,FED6,FAD6,FAC6), (Transit 09, FNF6,FMG6,FMH6,FMF6,FFF6,FFG6,FME6), (Transit 09, FME6,FMG6,FMH6,FNF6,FMF6,FFG6,FFH6,FFF6), (Transit 09, FGD6,FGC6,FGB6,FFB6,FFD6,FFC6,FMB6,FNB6,FMC6,FNC6,FMA6,FND6,FMD6), (Transit 09, FBE6), (Transit 11, ), (Transit 10, FAD,FBD), (Transit 10, FCD,FDD), (Transit 11, FCD), (Transit 11, FED,FFD), (Transit 10, FFD,FED), (Transit 11, FBD), (Transit 11, FED))

Activating the start/stop function ((Ecosport, JK8))

Initializing lateral/longitudinal/rotation acceleration sensor ((Focus 06, HN), (Focus 06, HP), (Focus 06, HM), (Focus 06, DYB), (Kuga 03, DFK), (Puma 02, J2K), (Kuga 03, DM2))

Adapting the camshaft ((Ecosport, JK8))

Activating the tire pressure sensors ((Tourneo Connect 03, PU2), (Transit 09, FAE6), (Ecosport, JK8), (Tourneo Connect 03, PJ2), (Tourneo Connect 03, JN8), (Ranger 05, 2AB), (Transit 10, FED), (Kuga 02, DM2), (Mondeo 04, BA7), (Transit 09, FDF6,FDG6,FDE6,FBE6,FZE6), (Transit 10, FAD), (Tourneo Connect 03, FAC), (Edge, TK), (B-



## Diagnostic devices

Max, JK8), (Focus 06, HN), (Focus 06, HP), (Tourneo Connect 03, JU2), (Transit 09, FDA6,FDC6,FDB6), (Tourneo Connect 03, ), (Transit 11, FAC), (Transit 09, FAC), (Transit 11, FCC), (Transit 09, FCC), (Transit 09, FAA6,FEB6,FEC6,FAB6,FED6,FAD6,FAC6), (Transit 09, FAA6,FAB6,FAD6,FAC6,FSA6,FSB6,FSC6), (Transit 09, FNF6,FMG6,FMF6,FME6), (Transit 09, FMB6,FNB6,FMC6,FNC6,FMA6,FND6,FMD6), (Transit 09, ), (Transit 11, FAD), (Transit 11, FCD,FDD), (Transit 11, FFD,FED), (Transit 10, FED,FFD), (Kuga 03, DM2), (Transit 09, FDE6,PDF6,FDG6,FZE6), (Transit 10, FAC), (Transit 09, FEF6,FEG6,FAG6,FAE6,FAF6,FSE6,FSF6,FSG6), (Transit 09, FAE6,FAG6,FSE6,FSF6,FSG6,FAF6,FEF6,FEG6), (Transit 09, FEB6,FAA6,FEC6,FAB6,FED6,FAD6,FAC6), (Transit 09, FNF6,FMG6,FMH6,FMF6,FFF6,FFG6,FME6), (Transit 09, FME6,FMG6,FMH6,FNF6,FMF6,FFG6,FFH6,FFF6), (Transit 09, FGD6,FGC6,FGB6,FFB6,FFD6,FFC6,FMB6,FNB6,FMC6,FNC6,FMA6,FND6,FMD6), (Transit 09, FBE6), (Transit 11, ), (Transit 10, FAD,FBD), (Transit 10, FCD,FDD), (Transit 11, FCD), (Transit 11, FED,FFD), (Transit 10, FFD,FED), (Fiesta 08, JHH,JGH), (Fiesta 08, JHH), (Kuga 03, DFK), (Puma 02, J2K), (Fiesta 08, JGH), (Mondeo 05, BA7), (Transit 11, FBD), (Transit 11, FED))

Deactivating the transport mode ((Ecosport, JK8), (Kuga 02, DM2), (B-Max, JK8))

Resetting engine adaptation values ((Tourneo Connect 03, PU2), (Transit 09, FAE6), (Ecosport, JK8), (Ranger 05, 2AB), (Tourneo Connect 03, PJ2), (Tourneo Connect 03, JN8), (Transit 10, FED), (Kuga 02, DM2), (Transit 10, 81), (Transit 09, FDF6,FDG6,FDE6,FBE6,FZE6), (Transit 10, FAD), (Edge, TK), (Tourneo Connect 03, JU2), (Transit 09, FDA6,FDC6,FDB6), (Tourneo Connect 03, ), (Transit 09, FAC), (Transit 09, FCC), (Transit 09, FAA6,FEB6,FEC6,FAB6,FED6,FAD6,FAC6), (Transit 09, FAA6,FAB6,FAD6,FAC6,FSA6,FSB6,FSC6), (Transit 09, FNF6,FMG6,FMF6,FME6), (Transit 09, FMB6,FNB6,FMC6,FNC6,FMA6,FND6,FMD6), (Transit 09, ), (Transit 10, FED,FFD), (Transit 09, FDE6,PDF6,FDG6,FZE6), (Transit 10, FAC), (Transit 09, FEF6,FEG6,FAG6,FAE6,FAF6,FSE6,FSF6,FSG6), (Transit 09, FAE6,FAG6,FSE6,FSF6,FSG6,FAF6,FEF6,FEG6), (Transit 09, FEB6,FAA6,FEC6,FAB6,FED6,FAD6,FAC6), (Transit 09, FNF6,FMG6,FMH6,FMF6,FFF6,FFG6,FME6), (Transit 09, FME6,FMG6,FMH6,FNF6,FMF6,FFG6,FFH6,FFF6), (Transit 09, FGD6,FGC6,FGB6,FFB6,FFD6,FFC6,FMB6,FNB6,FMC6,FNC6,FMA6,FND6,FMD6), (Transit 09, FBE6), (Transit 10, FAD,FBD), (Transit 10, FCD,FDD), (Transit 10, FFD,FED), (Fiesta 08, JHH,JGH), (Fiesta 08, JHH), (Kuga 03, DFK), (Fiesta 08, JGH))

Initializing the ABS/ESC system ((Ecosport, JK8), (B-Max, JK8))

Resetting EGR valve learning values ((C-Max 02, DA3))

Adapting the longitudinal acceleration sensor ((Kuga 02, DM2), (B-Max, JK8))

Resetting the fuel low pressure adaptation values ((Tourneo Connect 03, PU2), (Tourneo Connect 03, PJ2), (Tourneo Connect 03, JN8), (Tourneo Connect 03, FAC), (Tourneo Connect 03, JU2), (Tourneo Connect 03, ), (Transit 11, FAC), (Transit 11, FCC), (Transit 11, FAD), (Transit 11, FCD,FDD), (Transit 11, FFD,FED), (Transit 11, ), (Transit 11, FCD), (Transit 11, FED,FFD), (Kuga 03, DFK), (Transit 11, FBD), (Transit 11, FED))

Initializing the lateral acceleration sensor ((Kuga 02, DM2), (B-Max, JK8))

Resetting the start inhibitor of DEF injection system ((Transit 10, FAC), (Transit 10, FCC), (Transit 10, FAD,FBD), (Transit 10, FCD,FDD), (Transit 10, FCD), (Transit 10, FDD), (Transit 10, FFD,FED), (Transit 10, FED,FFD), (Transit 10, FFD), (Transit 10, FED), (Transit 10, FAD), (Ranger 05, 2AB), (Transit 10, 81BE), (Transit 10, SX), (Transit 10, SXS), (Transit 10, 81), (Tourneo Connect 03, FAC), (Transit 11, FAC), (Transit 11, FCC), (Transit 11, FAD), (Transit 11, FCD,FDD), (Transit 11, FFD,FED), (Transit 11, ), (Transit 11, FCD), (Transit 11, FED,FFD), (Transit 11, FBD), (Transit 11, FED))

Fill the DEF tank ((Tourneo Connect 03, FAC), (Transit 11, FAC), (Transit 11, FCC), (Transit 11, FAD), (Transit 11, FCD,FDD), (Transit 11, FFD,FED), (Transit 11, ), (Transit 11, FCD), (Transit 11, FED,FFD), (Transit 11, FBD), (Transit 11, FED))



## Diagnostic devices

Resetting the fuel metering valve learning values ((Mondeo 04, BA7))

Resetting adaptation values of ABS ECU ((Tourneo Connect 03, PU2), (Tourneo Connect 03, PJ2), (Tourneo Connect 03, JN8), (Tourneo Connect 03, JU2), (Tourneo Connect 03, ))

Calibrating the lane departure warning system camera ((Tourneo Connect 03, PU2), (Transit 09, FAE6), (Tourneo Connect 03, PJ2), (Tourneo Connect 03, JN8), (Ranger 05, 2AB), (Transit 10, FED), (Kuga 02, DM2), (Mondeo 04, BA7), (Transit 09, FDF6,FDG6,FDE6,FBE6,FZE6), (Transit 10, FAD), (Tourneo Connect 03, FAC), (Edge, TK), (Ecosport, JK8), (Focus 06, HN), (Focus 06, HP), (Tourneo Connect 03, JU2), (Transit 09, FDA6,FDC6,FDB6), (Tourneo Connect 03, ), (Transit 11, FAC), (Transit 09, FAC), (Transit 11, FCC), (Transit 09, FCC), (Transit 09, FAA6,FEB6,FEC6,FAB6,FED6,FAD6,FAC6), (Transit 09, FAA6,FAB6,FAD6,FAC6,FSA6,FSB6,FSC6), (Transit 09, FNF6,FMG6,FMF6,FME6), (Transit 09, FMB6,FNB6,FMC6,FNC6,FMA6,FND6,FMD6), (Transit 09, ), (Transit 11, FAD), (Transit 11, FCD,FDD), (Transit 11, FFD,FED), (Transit 10, FED,FFD), (Kuga 03, DM2), (Transit 09, FDE6,FDG6,FDG6,FZE6), (Transit 10, FAC), (Transit 09, FEF6,FEG6,FAG6,FAE6,FAF6,FSE6,FSF6,FSG6), (Transit 09, FAE6,FAG6,FSE6,FSF6,FSG6,FAF6,FEF6,FEG6), (Transit 09, FEB6,FAA6,FEC6,FAB6,FED6,FAD6,FAC6), (Transit 09, FNF6,FMG6,FMH6,FMF6,FFF6,FFG6,FME6), (Transit 09, FME6,FMG6,FMH6,FNF6,FMF6,FFG6,FFH6,FFF6), (Transit 09, FGD6,FGC6,FGB6,FFB6,FFD6,FFC6,FMB6,FNB6,FMC6,FNC6,FMA6,FND6,FMD6), (Transit 09, FBE6), (Transit 11, ), (Transit 10, FAD,FBD), (Transit 10, FCD,FDD), (Transit 11, FCD), (Transit 11, FED,FFD), (Transit 10, FFD,FED), (Fiesta 08, JHH,JGH), (Fiesta 08, JHH), (Kuga 03, DFK), (Puma 02, J2K), (Fiesta 08, JGH), (Transit 11, FBD), (Transit 11, FED))

Correcting straight-running stability ((Ecosport, JK8), (Kuga 02, DM2), (B-Max, JK8))

Initializing the SCR system ((Tourneo Connect 03, FAC), (Transit 11, FAC), (Transit 11, FCC), (Transit 11, FAD), (Transit 11, FCD,FDD), (Transit 11, FFD,FED), (Transit 11, ), (Transit 11, FCD), (Transit 11, FED,FFD), (Transit 11, FBD), (Transit 11, FED))

Resetting differential pressure sensor learning values ((Tourneo Connect 03, PU2), (Transit 09, FAE6), (Ranger 05, 2AB), (Tourneo Connect 03, PJ2), (Tourneo Connect 03, JN8), (Transit 10, FED), (Transit 10, 81), (Mondeo 04, BA7), (Transit 09, FDF6,FDG6,FDE6,FBE6,FZE6), (Transit 10, FAD), (Tourneo Connect 03, FAC), (B-Max, JK8), (Ecosport, JK8), (Tourneo Connect 03, JU2), (Transit 09, FDA6,FDC6,FDB6), (Tourneo Connect 03, ), (Transit 11, FAC), (Transit 09, FAC), (Transit 11, FCC), (Transit 09, FCC), (Transit 09, FAA6,FEB6,FEC6,FAB6,FED6,FAD6,FAC6), (Transit 09, FAA6,FAB6,FAD6,FAC6,FSA6,FSB6,FSC6), (Transit 09, FNF6,FMG6,FMF6,FME6), (Transit 09, FMB6,FNB6,FMC6,FNC6,FMA6,FND6,FMD6), (Transit 09, ), (Transit 11, FAD), (Transit 11, FCD,FDD), (Transit 11, FFD,FED), (Transit 10, FED,FFD), (Transit 09, FDE6,FDG6,FDG6,FZE6), (Transit 10, FAC), (Transit 09, FEF6,FEG6,FAG6,FAE6,FAF6,FSE6,FSF6,FSG6), (Transit 09, FAE6,FAG6,FSE6,FSF6,FSG6,FAF6,FEF6,FEG6), (Transit 09, FEB6,FAA6,FEC6,FAB6,FED6,FAD6,FAC6), (Transit 09, FNF6,FMG6,FMH6,FMF6,FFF6,FFG6,FME6), (Transit 09, FME6,FMG6,FMH6,FNF6,FMF6,FFG6,FFH6,FFF6), (Transit 09, FGD6,FGC6,FGB6,FFB6,FFD6,FFC6,FMB6,FNB6,FMC6,FNC6,FMA6,FND6,FMD6), (Transit 09, FBE6), (Transit 11, ), (Transit 10, FAD,FBD), (Transit 10, FCD,FDD), (Transit 11, FCD), (Transit 11, FED,FFD), (Transit 10, FFD,FED), (Transit 11, FBD), (Transit 11, FED))

Changing brake linings ((C-Max 02, DM2), (C-Max 02, DA3))

Standardizing the liftgate ((Mondeo 05, BA7))

Deactivating the crash mode ((Ecosport, JK8))

Emergency release of electric parking brake ((C-Max 02, DM2), (C-Max 02, DA3))

Adapting the radiator shutter ((Tourneo Connect 03, PU2), (Tourneo Connect 03, PJ2), (Tourneo Connect 03, JN8), (Tourneo Connect 03, JU2), (Tourneo Connect 03, ), (Kuga 03, DFK))



## Diagnostic devices

Adjusting the headlights ((Mondeo 04, BA7))

Activating the service mode ((Ecosport, JK8))

Emptying/filling the diesel exhaust fluid tank ((Ranger 05, 2AB), (Tourneo Connect 03, FAC), (Transit 11, FAC), (Transit 11, FCC), (Transit 11, FAD), (Transit 11, FCD,FDD), (Transit 11, FFD,FED), (Transit 11, ), (Transit 11, FCD), (Transit 11, FED,FFD), (Transit 11, FBD), (Transit 11, FED))

Resetting the soot particulate filter ((Ranger 05, 2AB), (B-Max, JK8), (Ecosport, JK8))

Resetting the KAM learning values ((Mondeo 04, BA7))

Resetting throttle valve adaptation values ((Ecosport, JK8))

Calibrating the steering wheel position sensor ((Kuga 02, DM2))

Resetting oxygen sensor adaptation values ((Tourneo Connect 03, PJ2), (Tourneo Connect 03, PU2), (Tourneo Connect 03, JN8), (B-Max, JK8), (Ecosport, JK8), (Tourneo Connect 03, ))

Initializing the fuel high-pressure sensor ((Ranger 05, 2AB))

Resetting the particulate filter learning values ((Fiesta 07, JA8), (Tourneo Connect 03, PU2), (Fiesta 07, JR8), (Transit 09, FAE6), (Ranger 05, 2AB), (Tourneo Connect 03, PJ2), (Tourneo Connect 03, JN8), (C-Max 02, DA3), (Transit 10, FED), (Transit 10, 81), (Mondeo 04, BA7), (Transit 09, FDF6,FDG6,FDE6,FBE6,FZE6), (Transit 10, FAD), (Tourneo Connect 03, FAC), (Tourneo Connect 03, JU2), (Transit 09, FDA6,FDC6,FDB6), (Tourneo Connect 03, ), (Transit 11, FAC), (Transit 09, FAC), (Transit 11, FCC), (Transit 09, FCC), (Transit 09, FAA6,FEB6,FEC6,FAB6,FED6,FAD6,FAC6), (Transit 09, FAA6,FAB6,FAD6,FAC6,FSA6,FSB6,FSC6), (Transit 09, FNF6,FMG6,FMF6,FME6), (Transit 09, FMB6,FNB6,FMC6,FNC6,FMA6,FND6,FMD6), (Transit 09, ), (Transit 11, FAD), (Transit 11, FCD,FDD), (Transit 11, FFD,FED), (Transit 10, FED,FFD), (Transit 09, FDE6,PDF6,FDG6,FZE6), (Transit 10, FAC), (Transit 09, FEF6,FEG6,FAG6,FAE6,FAF6,FSE6,FSF6,FSG6), (Transit 09, FAE6,FAG6,FSE6,FSF6,FSG6,FAF6,FEF6,FEG6), (Transit 09, FEB6,FAA6,FEC6,FAB6,FED6,FAD6,FAC6), (Transit 09, FNF6,FMG6,FMH6,FMF6,FFF6,FFG6,FME6), (Transit 09, FME6,FMG6,FMH6,FNF6,FMF6,FFG6,FFH6,FFF6), (Transit 09, FGD6,FGC6,FGB6,FFB6,FFD6,FFC6,FMB6,FNB6,FMC6,FNC6,FMA6,FND6,FMD6), (Transit 09, FBE6), (Transit 11, ), (Transit 10, FAD,FBD), (Transit 10, FCD,FDD), (Transit 11, FCD), (Transit 11, FED,FFD), (Transit 10, FFD,FED), (Kuga 03, DFK), (Transit 11, FBD), (Transit 11, FED))

Teach-in battery sensor module ((Kuga 02, DM2), (Tourneo Connect 03, JU2), (Tourneo Connect 03, PU2), (Tourneo Connect 03, PJ2), (Transit 09, FAE6), (Tourneo Connect 03, JN8), (Ecosport, JK8), (Focus 05, DYB), (Ranger 05, 2AB), (Transit 10, FED), (Mondeo 04, BA7), (Transit 09, FDF6,FDG6,FDE6,FBE6,FZE6), (Transit 10, FAD), (Tourneo Connect 03, FAC), (Edge, TK), (B-Max, JK8), (Focus 06, HN), (Focus 06, HP), (Transit 09, FDA6,FDC6,FDB6), (Tourneo Connect 03, ), (Transit 11, FAC), (Transit 09, FAC), (Transit 11, FCC), (Transit 09, FCC), (Transit 09, FAA6,FEB6,FEC6,FAB6,FED6,FAD6,FAC6), (Transit 09, FAA6,FAB6,FAD6,FAC6,FSA6,FSB6,FSC6), (Transit 09, FNF6,FMG6,FMF6,FME6), (Transit 09, FMB6,FNB6,FMC6,FNC6,FMA6,FND6,FMD6), (Transit 09, ), (Transit 11, FAD), (Transit 11, FCD,FDD), (Transit 11, FFD,FED), (Transit 10, FED,FFD), (Kuga 03, DM2), (Transit 09, FDE6,PDF6,FDG6,FZE6), (Transit 10, FAC), (Transit 09, FEF6,FEG6,FAG6,FAE6,FAF6,FSE6,FSF6,FSG6), (Transit 09, FAE6,FAG6,FSE6,FSF6,FSG6,FAF6,FEF6,FEG6), (Transit 09, FEB6,FAA6,FEC6,FAB6,FED6,FAD6,FAC6), (Transit 09, FNF6,FMG6,FMH6,FMF6,FFF6,FFG6,FME6), (Transit 09, FME6,FMG6,FMH6,FNF6,FMF6,FFG6,FFH6,FFF6), (Transit 09, FGD6,FGC6,FGB6,FFB6,FFD6,FFC6,FMB6,FNB6,FMC6,FNC6,FMA6,FND6,FMD6), (Transit 09, FBE6), (Transit 11, ), (Transit 10, FAD,FBD), (Transit 10, FCD,FDD), (Transit 11, FCD), (Transit 11, FED,FFD), (Transit 10, FFD,FED), (Fiesta 08, JHH,JGH), (Fiesta 08, JHH), (Kuga 03, DFK), (Puma 02, J2K), (Fiesta 08, JGH), (Mondeo 05, BA7), (Transit 11, FBD), (Transit 11, FED))



## Diagnostic devices

Deactivating the crash mode ((Kuga 02, DM2), (B-Max, JK8))

Initializing the tilt/slide sunroof ((Tourneo Connect 03, PU2), (Transit 09, FAE6), (Ecosport, JK8), (Tourneo Connect 03, PJ2), (Tourneo Connect 03, JN8), (Ranger 05, 2AB), (Transit 10, FED), (Kuga 02, DM2), (Mondeo 04, BA7), (Transit 09, FDF6,FDG6,FDE6,FBE6,FZE6), (Transit 10, FAD), (Tourneo Connect 03, FAC), (Edge, TK), (B-Max, JK8), (Tourneo Connect 03, JU2), (Transit 09, FDA6,FDC6,FDB6), (Tourneo Connect 03, ), (Transit 11, FAC), (Transit 09, FAC), (Transit 11, FCC), (Transit 09, FCC), (Transit 09, FAA6,FEB6,FEC6,FAB6,FED6,FAD6,FAC6), (Transit 09, FAA6,FAB6,FAD6,FAC6,FSA6,FSB6,FSC6), (Transit 09, FNF6,FMG6,FMF6,FME6), (Transit 09, FMB6,FNB6,FMC6,FNC6,FMA6,FND6,FMD6), (Transit 09, ), (Transit 11, FAD), (Transit 11, FCD,FDD), (Transit 11, FFD,FED), (Transit 10, FED,FFD), (Transit 09, FDE6,FDG6,FDG6,FZE6), (Transit 10, FAC), (Transit 09, FEF6,FEG6,FAG6,FAE6,FAF6,FSE6,FSF6,FSG6), (Transit 09, FAE6,FAG6,FSE6,FSF6,FSG6,FAF6,FEF6,FEG6), (Transit 09, FEB6,FAA6,FEC6,FAB6,FED6,FAD6,FAC6), (Transit 09, FNF6,FMG6,FMH6,FMF6,FFF6,FFG6,FME6), (Transit 09, FME6,FMG6,FMH6,FNF6,FMF6,FFG6,FFH6,FFF6), (Transit 09, FGD6,FGC6,FGB6,FFB6,FFD6,FFC6,FMB6,FNB6,FMC6,FNC6,FMA6,FND6,FMD6), (Transit 09, FBE6), (Transit 11, ), (Transit 10, FAD,FBD), (Transit 10, FCD,FDD), (Transit 11, FCD), (Transit 11, FED,FFD), (Transit 10, FFD,FED), (Mondeo 05, BA7), (Transit 11, FBD), (Transit 11, FED))

Resetting learned values of NOx sensor ((Tourneo Connect 03, PU2), (Tourneo Connect 03, PJ2), (Tourneo Connect 03, JN8), (Tourneo Connect 03, JU2), (Tourneo Connect 03, ), (Kuga 03, DFK))

Resetting adaptation values of high-pressure fuel system ((Tourneo Connect 03, PU2), (Transit 09, FAE6), (Tourneo Connect 03, PJ2), (Tourneo Connect 03, JN8), (Transit 10, FED), (Transit 10, 81), (Transit 09, FDF6,FDG6,FDE6,FBE6,FZE6), (Transit 10, FAD), (Tourneo Connect 03, JU2), (Transit 09, FDA6,FDC6,FDB6), (Tourneo Connect 03, ), (Transit 09, FAC), (Transit 09, FCC), (Transit 09, FAA6,FEB6,FEC6,FAB6,FED6,FAD6,FAC6), (Transit 09, FAA6,FAB6,FAD6,FAC6,FSA6,FSB6,FSC6), (Transit 09, FNF6,FMG6,FMF6,FME6), (Transit 09, FMB6,FNB6,FMC6,FNC6,FMA6,FND6,FMD6), (Transit 09, ), (Transit 10, FED,FFD), (Transit 09, FDE6,FDG6,FDG6,FZE6), (Transit 10, FAC), (Transit 09, FEF6,FEG6,FAG6,FAE6,FAF6,FSE6,FSF6,FSG6), (Transit 09, FAE6,FAG6,FSE6,FSF6,FSG6,FAF6,FEF6,FEG6), (Transit 09, FEB6,FAA6,FEC6,FAB6,FED6,FAD6,FAC6), (Transit 09, FNF6,FMG6,FMH6,FMF6,FFF6,FFG6,FME6), (Transit 09, FME6,FMG6,FMH6,FNF6,FMF6,FFG6,FFH6,FFF6), (Transit 09, FGD6,FGC6,FGB6,FFB6,FFD6,FFC6,FMB6,FNB6,FMC6,FNC6,FMA6,FND6,FMD6), (Transit 09, FBE6), (Transit 10, FAD,FBD), (Transit 10, FCD,FDD), (Transit 10, FFD,FED), (Kuga 03, DFK))

Reset learned values of injectors. ((Transit 09, FAE6), (Ranger 05, 2AB), (Tourneo Connect 03, PJ2), (Tourneo Connect 03, PU2), (Transit 10, FED), (Tourneo Connect 03, JN8), (Transit 10, 81), (Transit 09, FDF6,FDG6,FDE6,FBE6,FZE6), (Transit 10, FAD), (Tourneo Connect 03, FAC), (Transit 09, FDA6,FDC6,FDB6), (Tourneo Connect 03, ), (Transit 11, FAC), (Transit 09, FAC), (Transit 11, FCC), (Transit 09, FCC), (Transit 09, FAA6,FEB6,FEC6,FAB6,FED6,FAD6,FAC6), (Transit 09, FAA6,FAB6,FAD6,FAC6,FSA6,FSB6,FSC6), (Transit 09, FNF6,FMG6,FMF6,FME6), (Transit 09, FMB6,FNB6,FMC6,FNC6,FMA6,FND6,FMD6), (Transit 09, ), (Transit 11, FAD), (Transit 11, FCD,FDD), (Transit 11, FFD,FED), (Transit 10, FED,FFD), (Transit 09, FDE6,FDG6,FDG6,FZE6), (Transit 10, FAC), (Transit 09, FEF6,FEG6,FAG6,FAE6,FAF6,FSE6,FSF6,FSG6), (Transit 09, FAE6,FAG6,FSE6,FSF6,FSG6,FAF6,FEF6,FEG6), (Transit 09, FEB6,FAA6,FEC6,FAB6,FED6,FAD6,FAC6), (Transit 09, FNF6,FMG6,FMH6,FMF6,FFF6,FFG6,FME6), (Transit 09, FME6,FMG6,FMH6,FNF6,FMF6,FFG6,FFH6,FFF6), (Transit 09, FGD6,FGC6,FGB6,FFB6,FFD6,FFC6,FMB6,FNB6,FMC6,FNC6,FMA6,FND6,FMD6), (Transit 09, FBE6), (Transit 11, ), (Transit 10, FAD,FBD), (Transit 10, FCD,FDD), (Transit 11, FCD), (Transit 11, FED,FFD), (Transit 10, FFD,FED), (Transit 11, FBD), (Transit 11, FED))

Teach-in gearshift fork system ((Mondeo 04, BA7))



## Diagnostic devices

Initializing the lateral acceleration sensor ((Tourneo Connect 03, PU2), (C-Max 02, DM2), (C-Max 02, DA3), (Tourneo Connect 03, PJ2), (Tourneo Connect 03, JN8), (Tourneo Connect 03, JU2), (Tourneo Connect 03, ))

Initializing the brake-pressure sensor ((C-Max 02, DM2), (C-Max 02, DA3))

De/activating the parking brake service mode ((Kuga 02, DM2), (Focus 06, HN), (Focus 06, HP), (Focus 06, HM), (Focus 06, DYB), (Edge, TK), (Kuga 03, DFK), (Kuga 03, DM2), (Mondeo 05, BA7))

Initializing the brake-pressure sensor ((Tourneo Connect 03, PU2), (Tourneo Connect 03, PJ2), (Tourneo Connect 03, JN8), (Tourneo Connect 03, JU2), (Tourneo Connect 03, ))

Resetting throttle valve adaptation values ((Kuga 03, DFK))

Adapting the longitudinal acceleration sensor ((Tourneo Connect 03, PU2), (Ecosport, JK8), (Tourneo Connect 03, PJ2), (Tourneo Connect 03, JN8), (Mondeo 04, BA7), (Tourneo Connect 03, JU2), (Tourneo Connect 03, ))

Filling the regeneration additive container ((Ranger 05, 2AB))

Initializing the forward collision warning system ((Kuga 02, DM2), (Mondeo 05, BA7))

Resetting EGR valve learning values ((Tourneo Connect 03, PU2), (Tourneo Connect 03, PJ2), (Tourneo Connect 03, JN8), (Tourneo Connect 03, JU2), (Tourneo Connect 03, ))

Adapting crankshaft sensor ((Tourneo Connect 03, FAC), (Transit 11, FAC), (Transit 11, FCC), (Transit 11, FAD), (Transit 11, FCD,FDD), (Transit 11, FFD,FED), (Transit 11, ), (Transit 11, FCD), (Transit 11, FED,FFD), (Kuga 03, DFK), (Transit 11, FBD), (Transit 11, FED))

Resetting the indicator light "Water in fuel" ((Tourneo Connect 03, PU2), (Transit 09, FAE6), (Ranger 05, 2AB), (Tourneo Connect 03, PJ2), (Tourneo Connect 03, JN8), (Transit 10, FED), (Transit 10, 81), (Mondeo 04, BA7), (Transit 09, FDF6,FDG6,FDE6,FBE6,FZE6), (Transit 10, FAD), (Tourneo Connect 03, FAC), (Tourneo Connect 03, JU2), (Transit 09, FDA6,FDC6,FDB6), (Tourneo Connect 03, ), (Transit 11, FAC), (Transit 09, FAC), (Transit 11, FCC), (Transit 09, FCC), (Transit 09, FAA6,FEB6,FEC6,FAB6,FED6,FAD6,FAC6), (Transit 09, FAA6,FAB6,FAD6,FAC6,FSA6,FSB6,FSC6), (Transit 09, FNF6,FMG6,FMF6,FME6), (Transit 09, FMB6,FNB6,FMC6,FNC6,FMA6,FND6,FMD6), (Transit 09, ), (Transit 11, FAD), (Transit 11, FCD,FDD), (Transit 11, FFD,FED), (Transit 10, FED,FFD), (Transit 09, FDE6,PDF6,FDG6,FZE6), (Transit 10, FAC), (Transit 09, FEF6,FEG6,FAG6,FAE6,FAF6,FSE6,FSF6,FSG6), (Transit 09, FAE6,FAG6,FSE6,FSF6,FSG6,FAF6,FEF6,FEG6), (Transit 09, FEB6,FAA6,FEC6,FAB6,FED6,FAD6,FAC6), (Transit 09, FNF6,FMG6,FMH6,FMF6,FFF6,FFG6,FME6), (Transit 09, FME6,FMG6,FMH6,FNF6,FMF6,FFG6,FFH6,FFF6), (Transit 09, FGD6,FGC6,FGB6,FFB6,FFD6,FFC6,FMB6,FNB6,FMC6,FNC6,FMA6,FND6,FMD6), (Transit 09, FBE6), (Transit 11, ), (Transit 10, FAD,FBD), (Transit 10, FCD,FDD), (Transit 11, FCD), (Transit 11, FED,FFD), (Transit 10, FFD,FED), (Transit 11, FBD), (Transit 11, FED))

Resetting the A/C compressor learning values ((Tourneo Connect 03, FAC), (B-Max, JK8), (Ecosport, JK8), (Transit 11, FAC), (Transit 11, FCC), (Transit 11, FAD), (Transit 11, FCD,FDD), (Transit 11, FFD,FED), (Transit 11, ), (Transit 11, FCD), (Transit 11, FED,FFD), (Transit 11, FBD), (Transit 11, FED))

Resetting the exhaust temperature values ((Transit 09, FAE6), (Ranger 05, 2AB), (Tourneo Connect 03, PJ2), (Tourneo Connect 03, PU2), (Transit 10, FED), (Tourneo Connect 03, JN8), (Transit 10, 81), (Transit 09, FDF6,FDG6,FDE6,FBE6,FZE6), (Transit 10, FAD), (Tourneo Connect 03, FAC), (B-Max, JK8), (Ecosport, JK8), (Transit 09, FDA6,FDC6,FDB6), (Tourneo Connect 03, ), (Transit 11, FAC), (Transit 09, FAC), (Transit 11, FCC), (Transit 09, FCC), (Transit 09, FAA6,FEB6,FEC6,FAB6,FED6,FAD6,FAC6), (Transit 09, FAA6,FAB6,FAD6,FAC6,FSA6,FSB6,FSC6), (Transit 09, FNF6,FMG6,FMF6,FME6), (Transit 09, FMB6,FNB6,FMC6,FNC6,FMA6,FND6,FMD6), (Transit 09, ), (Transit 11, FAD), (Transit 11, FCD,FDD), (Transit 11, FFD,FED), (Transit 10, FED,FFD), (Transit 09, FDE6,PDF6,FDG6,FZE6), (Transit 10, FAC), (Transit 09, FEF6,FEG6,FAG6,FAE6,FAF6,FSE6,FSF6,FSG6), (Transit 09, ))



## Diagnostic devices

FAE6,FAG6,FSE6,FSF6,FSG6,FAF6,FEF6,FEG6), (Transit 09,  
FEB6,FAA6,FEC6,FAB6,FED6,FAD6,FAC6), (Transit 09,  
FNF6,FMG6,FMH6,FMF6,FFF6,FFG6,FME6), (Transit 09,  
FME6,FMG6,FMH6,FNF6,FMF6,FFG6,FFH6,FFF6), (Transit 09,  
FGD6,FGC6,FGB6,FFB6,FFD6,FFC6,FMB6,FNB6,FMC6,FNC6,FMA6,FND6,FMD6), (Transit 09,  
FBE6), (Transit 11, ), (Transit 10, FAD,FBD), (Transit 10, FCD,FDD), (Transit 11, FCD), (Transit  
11, FED,FFD), (Transit 10, FFD,FED), (Transit 11, FBD), (Transit 11, FED))

Cleaning the turbocharger ((Touneo Connect 03, FAC), (Transit 11, FAC), (Transit 11, FCC),  
(Transit 11, FAD), (Transit 11, FCD,FDD), (Transit 11, FFD,FED), (Transit 11, ), (Transit 11,  
FCD), (Transit 11, FED,FFD), (Transit 11, FBD), (Transit 11, FED))

Initializing the mass airflow sensor ((Transit 09, FAE6), (Ranger 05, 2AB), (Transit 10, FED),  
(Transit 10, 81), (Transit 09, FDF6,FDG6,FDE6,FBE6,FZE6), (Transit 10, FAD), (Touneo  
Connect 03, FAC), (Transit 09, FDA6,FDC6,FDB6), (Transit 11, FAC), (Transit 09, FAC),  
(Transit 11, FCC), (Transit 09, FCC), (Transit 09, FAA6,FEB6,FEC6,FAB6,FED6,FAD6,FAC6),  
(Transit 09, FAA6,FAB6,FAD6,FAC6,FSA6,FSB6,FSC6), (Transit 09, FNF6,FMG6,FMF6,FME6),  
(Transit 09, FMB6,FNB6,FMC6,FNC6,FMA6,FND6,FMD6), (Transit 09, ), (Transit 11, FAD),  
(Transit 11, FCD,FDD), (Transit 11, FFD,FED), (Transit 10, FED,FFD), (Transit 09,  
FDE6,FDG6,FDG6,FZE6), (Transit 10, FAC), (Transit 09,  
FEF6,FEG6,FAG6,FAE6,FAF6,FSE6,FSF6,FSG6), (Transit 09,  
FAE6,FAG6,FSE6,FSF6,FSG6,FAF6,FEF6,FEG6), (Transit 09,  
FEB6,FAA6,FEC6,FAB6,FED6,FAD6,FAC6), (Transit 09,  
FNF6,FMG6,FMH6,FMF6,FFF6,FFG6,FME6), (Transit 09,  
FME6,FMG6,FMH6,FNF6,FMF6,FFG6,FFH6,FFF6), (Transit 09,  
FGD6,FGC6,FGB6,FFB6,FFD6,FFC6,FMB6,FNB6,FMC6,FNC6,FMA6,FND6,FMD6), (Transit 09,  
FBE6), (Transit 11, ), (Transit 10, FAD,FBD), (Transit 10, FCD,FDD), (Transit 11, FCD), (Transit  
11, FED,FFD), (Transit 10, FFD,FED), (Transit 11, FBD), (Transit 11, FED))

Calibrating the steering-angle sensor ((Ecosport, JK8), (Kuga 02, DM2), (Mondeo 04, BA7),  
(B-Max, JK8))

Learning the steering-angle sensor ((Touneo Connect 03, PU2), (Touneo Connect 03, PJ2),  
(Touneo Connect 03, JN8), (Touneo Connect 03, JU2), (Touneo Connect 03, ))

Regenerating the soot particulate filter ((Touneo Connect 03, PU2), (Transit 09, FAE6),  
(Ranger 05, 2AB), (Touneo Connect 03, PJ2), (Touneo Connect 03, JN8), (C-Max 02, DA3),  
(Transit 10, FED), (Transit 10, 81), (Mondeo 04, BA7), (Transit 09,  
FDF6,FDG6,FDE6,FBE6,FZE6), (Transit 10, FAD), (Touneo Connect 03, FAC), (B-Max, JK8),  
(Ecosport, JK8), (Touneo Connect 03, JU2), (Transit 09, FDA6,FDC6,FDB6), (Touneo  
Connect 03, ), (Transit 11, FAC), (Transit 09, FAC), (Transit 11, FCC), (Transit 09, FCC),  
(Transit 09, FAA6,FEB6,FEC6,FAB6,FED6,FAD6,FAC6), (Transit 09,  
FAA6,FAB6,FAD6,FAC6,FSA6,FSB6,FSC6), (Transit 09, FNF6,FMG6,FMF6,FME6), (Transit 09,  
FMB6,FNB6,FMC6,FNC6,FMA6,FND6,FMD6), (Transit 09, ), (Transit 11, FAD), (Transit 11,  
FCD,FDD), (Transit 11, FFD,FED), (Transit 10, FED,FFD), (Transit 09, FDE6,FDG6,FDG6,FZE6),  
(Transit 10, FAC), (Transit 09, FEF6,FEG6,FAG6,FAE6,FAF6,FSE6,FSF6,FSG6), (Transit 09,  
FAE6,FAG6,FSE6,FSF6,FSG6,FAF6,FEF6,FEG6), (Transit 09,  
FEB6,FAA6,FEC6,FAB6,FED6,FAD6,FAC6), (Transit 09,  
FNF6,FMG6,FMH6,FMF6,FFF6,FFG6,FME6), (Transit 09,  
FME6,FMG6,FMH6,FNF6,FMF6,FFG6,FFH6,FFF6), (Transit 09,  
FGD6,FGC6,FGB6,FFB6,FFD6,FFC6,FMB6,FNB6,FMC6,FNC6,FMA6,FND6,FMD6), (Transit 09,  
FBE6), (Transit 11, ), (Transit 10, FAD,FBD), (Transit 10, FCD,FDD), (Transit 11, FCD), (Transit  
11, FED,FFD), (Transit 10, FFD,FED), (Kuga 03, DFK), (Transit 11, FBD), (Transit 11, FED))

Resetting learned values of the DEF injection system ((Ranger 05, 2AB), (Touneo Connect  
03, FAC), (Transit 11, FAC), (Transit 11, FCC), (Transit 11, FAD), (Transit 11, FCD,FDD),  
(Transit 11, FFD,FED), (Transit 11, ), (Transit 11, FCD), (Transit 11, FED,FFD), (Transit 11,  
FBD), (Transit 11, FED))



## Diagnostic devices

Resetting exhaust-gas temperature sensor adaptation values of soot particulate filter ((Tourneo Connect 03, PU2), (Tourneo Connect 03, PJ2), (Tourneo Connect 03, JN8), (Tourneo Connect 03, FAC), (Tourneo Connect 03, JU2), (Tourneo Connect 03, ), (Transit 11, FAC), (Transit 11, FCC), (Transit 11, FAD), (Transit 11, FCD,FDD), (Transit 11, FFD,FED), (Transit 11, ), (Transit 11, FCD), (Transit 11, FED,FFD), (Kuga 03, DFK), (Transit 11, FBD), (Transit 11, FED))

Teach-in clutch system ((Mondeo 04, BA7))

Initializing the yaw rate sensor ((C-Max 02, DM2), (C-Max 02, DA3))

Initializing the brake-pressure sensor ((Ecosport, JK8), (Mondeo 04, BA7))

Initializing the adaptive cruise control ((Ranger 05, 2AB), (Transit 10, FED), (Kuga 02, DM2), (Transit 10, FAD), (Tourneo Connect 03, FAC), (Edge, TK), (Focus 06, HN), (Focus 06, HP), (Transit 11, FAC), (Transit 11, FCC), (Transit 11, FAD), (Transit 11, FCD,FDD), (Transit 11, FFD,FED), (Transit 10, FED,FFD), (Kuga 03, DM2), (Transit 10, FAC), (Transit 11, ), (Transit 10, FAD,FBD), (Transit 10, FCD,FDD), (Transit 11, FCD), (Transit 11, FED,FFD), (Transit 10, FFD,FED), (Fiesta 08, JHH,JGH), (Fiesta 08, JHH), (Kuga 03, DFK), (Puma 02, J2K), (Fiesta 08, JGH), (Mondeo 05, BA7), (Transit 11, FBD), (Transit 11, FED))

Special bleeding ((Mondeo 04, BA7))

Resetting EGR valve learning values ((Transit 09, FAE6), (Ranger 05, 2AB), (Transit 10, FED), (Transit 10, 81), (Mondeo 04, BA7), (Transit 09, FDF6,FDG6,FDE6,FBE6,FZE6), (Transit 10, FAD), (Tourneo Connect 03, FAC), (B-Max, JK8), (Ecosport, JK8), (Transit 09, FDA6,FDC6,FDB6), (Transit 11, FAC), (Transit 09, FAC), (Transit 11, FCC), (Transit 09, FCC), (Transit 09, FAA6,FEB6,FEC6,FAB6,FED6,FAD6,FAC6), (Transit 09, FAA6,FAB6,FAD6,FAC6,FAA6,FSB6,FSC6), (Transit 09, FNF6,FMG6,FMF6,FME6), (Transit 09, FMB6,FNB6,FMC6,FNC6,FMA6,FND6,FMD6), (Transit 09, ), (Transit 11, FAD), (Transit 11, FCD,FDD), (Transit 11, FFD,FED), (Transit 10, FED,FFD), (Transit 09, FDE6,FDG6,FDG6,FZE6), (Transit 10, FAC), (Transit 09, FEF6,FEG6,FAG6,FAE6,FAF6,FSE6,FSF6,FSG6), (Transit 09, FAE6,FAG6,FSE6,FSF6,FSG6,FAF6,FEF6,FEG6), (Transit 09, FEB6,FAA6,FEC6,FAB6,FED6,FAD6,FAC6), (Transit 09, FNF6,FMG6,FMH6,FMF6,FFF6,FFG6,FME6), (Transit 09, FME6,FMG6,FMH6,FNF6,FMF6,FFG6,FFH6,FFF6), (Transit 09, FGD6,FGC6,FGB6,FFB6,FFD6,FFC6,FMB6,FNB6,FMC6,FNC6,FMA6,FND6,FMD6), (Transit 09, FBE6), (Transit 11, ), (Transit 10, FAD,FBD), (Transit 10, FCD,FDD), (Transit 11, FCD), (Transit 11, FED,FFD), (Transit 10, FFD,FED), (Kuga 03, DFK), (Transit 11, FBD), (Transit 11, FED))

Calibrating the front camera ((Mondeo 05, BA7))

Resetting the injection pump learning values ((Tourneo Connect 03, FAC), (B-Max, JK8), (Ecosport, JK8), (Transit 11, FAC), (Transit 11, FCC), (Transit 11, FAD), (Transit 11, FCD,FDD), (Transit 11, FFD,FED), (Transit 11, ), (Transit 11, FCD), (Transit 11, FED,FFD), (Transit 11, FBD), (Transit 11, FED))

Calibrating the parking brake ((Kuga 02, DM2), (Focus 06, HN), (Focus 06, HP), (Focus 06, HM), (Focus 06, DYB), (Kuga 03, DFK), (Kuga 03, DM2))

Initializing the wipers ((Tourneo Connect 03, PU2), (Tourneo Connect 03, PJ2), (Tourneo Connect 03, JN8), (Kuga 02, DM2), (B-Max, JK8), (Tourneo Connect 03, JU2), (Tourneo Connect 03, ))

Resetting differential pressure sensor learning values ((Kuga 03, DFK))

Initializing the brake-pressure sensor ((Kuga 02, DM2), (B-Max, JK8))

Calibrating the parking brake ((Edge, TK), (Mondeo 05, BA7))

### | Codings

Activating the transport mode ((C-Max 02, DM2), (C-Max 02, DA3))



## Diagnostic devices

Coding injectors ((Tourneo Connect 03, PU2), (Transit 09, FAE6), (Ranger 05, 2AB), (Tourneo Connect 03, PJ2), (Tourneo Connect 03, JN8), (C-Max 02, DA3), (Transit 10, FED), (Transit 10, 81), (Mondeo 04, BA7), (Transit 09, FDF6,FDG6,FDE6,FBE6,FZE6), (Transit 10, FAD), (Tourneo Connect 03, FAC), (B-Max, JK8), (Ecosport, JK8), (Tourneo Connect 03, JU2), (Transit 09, FDA6,FDC6,FDB6), (Tourneo Connect 03, ), (Transit 11, FAC), (Transit 09, FAC), (Transit 11, FCC), (Transit 09, FCC), (Transit 09, FAA6,FEB6,FEC6,FAB6,FED6,FAD6,FAC6), (Transit 09, FAA6,FAB6,FAD6,FAC6,FSA6,FSB6,FSC6), (Transit 09, FNF6,FMG6,FMF6,FME6), (Transit 09, FMB6,FNB6,FMC6,FNC6,FMA6,FND6,FMD6), (Transit 09, ), (Transit 11, FAD), (Transit 11, FCD,FDD), (Transit 11, FFD,FED), (Transit 10, FED,FFD), (Transit 09, FDE6,FDG6,FDG6,FZE6), (Transit 10, FAC), (Transit 09, FEF6,FEG6,FAG6,FAE6,FAF6,FSE6,FSF6,FSG6), (Transit 09, FAE6,FAG6,FSE6,FSF6,FSG6,FAF6,FEF6,FEG6), (Transit 09, FEB6,FAA6,FEC6,FAB6,FED6,FAD6,FAC6), (Transit 09, FNF6,FMG6,FMH6,FMF6,FFF6,FFG6,FME6), (Transit 09, FME6,FMG6,FMH6,FNF6,FMF6,FFG6,FFH6,FFF6), (Transit 09, FGD6,FGC6,FGB6,FFB6,FFD6,FFC6,FMB6,FNB6,FMC6,FNC6,FMA6,FND6,FMD6), (Transit 09, FBE6), (Transit 11, ), (Transit 10, FAD,FBD), (Transit 10, FCD,FDD), (Transit 11, FCD), (Transit 11, FED,FFD), (Transit 10, FFD,FED), (Kuga 03, DFK), (Transit 11, FBD), (Transit 11, FED))

Coding the automatic locking of doors ((C-Max 02, DM2), (C-Max 02, DA3))

Coding the remote control ((Mondeo 04, BA7))

### Service resets

(B-Max, JK8), (C-Max 01, DM2), (C-Max 02, DM2), (C-Max 03, DXA), (C-Max 04, DXA), (Cougar, BCV), (Ecosport, JK8), (Edge, TK), (Escort 05, GAL), (Explorer, U2), (Fiesta 04, JBS), (Fiesta 06, JR8), (Fiesta 07, JA8), (Fiesta 08, JJH), (Focus 01, DFW), (Focus 02, DA3), (Focus 03, DB3), (Focus 04, DYB), (Focus 05, DYB), (Focus 06, HN), (Galaxy 01, WGR), (Galaxy 02, WGR), (Galaxy 03, WA6), (Galaxy 04, WA6), (KA 01, RBT), (KA+, KAF), (Kuga 01, DM2), (Kuga 02, DM2), (Kuga 03, DFK), (Maverick 02, 1EZ), (Mondeo 01, GBP), (Mondeo 02, GBP), (Mondeo 03, B4Y), (Mondeo 04, BA7), (Mondeo 05, BA7), (Mustang 06, LAE), (Puma 01, ECT), (Puma 02, J2K), (Ranger 04, 2AB), (Ranger 05, 2AB), (S-Max 01, WA6), (S-Max 02, WA6), (Scorpio 02, GFR), (Tourneo Connect 01, PH2), (Tourneo Connect 02, PT2), (Tourneo Connect 03, JU2), (Transit 07, NDL), (Transit 08, H1), (Transit 09, FME6,FMG6,FMH6,FNF6,FMF6,FFG6,FFH6,FFF6), (Transit 10, FAC), (Transit 11, FAC), (Windstar, A3)

### DoIP/CAN

Capable for diagnostics only with mega macs X

### Cyber Security Management (CSM)

Capable for diagnostics only with Cyber Security Management



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Diagnostic devices



## HGS Software-News



## Diagnostic devices

**Honda**



## Diagnostic devices

### Hyundai

<b>  Trouble codes</b>	(i30 / i30cw, GD), (i30 / i30cw, PD), (i40 / i40cw, VF), (Ioniq, AE), (Ioniq, AE EV), (Ioniq, AE HEV), (Kona, OS), (Santa Fe, CM), (Tucson, NX)
<b>  Parameters</b>	(i30 / i30cw, GD), (i30 / i30cw, PD), (Ioniq, AE), (Ioniq, AE EV), (Ioniq, AE HEV), (Kona, OS), (Santa Fe, CM), (Tucson, NX)
<b>  Actuators</b>	(i30 / i30cw, GD), (i30 / i30cw, PD), (Kona, OS), (Santa Fe, CM), (Tucson, NX)
<b>  Basic settings</b>	<p>Resetting transfer case adaptation values ((Kona, OS))</p> <p>Resetting engine adaptation values ((i30 / i30cw, PD), (i30 / i30cw, GD), (Kona, OS))</p> <p>Gearbox bleeding ((Kona, OS))</p> <p>Resetting self-adaptation parameters ((Kona, OS))</p> <p>Calibrating the front camera ((i30 / i30cw, GD))</p> <p>Calibrating the steering-angle sensor ((i40 / i40cw, VF), (Santa Fe, DM), (i30 / i30cw, PD))</p> <p>Learning the steering-angle sensor ((i30 / i30cw, PD))</p> <p>Adapting the longitudinal acceleration sensor ((i30 / i30cw, PD), (Kona, OS))</p> <p>Reset learning values ((i30 / i30cw, GD))</p> <p>Configuring the head-up display ((Kona, OS))</p> <p>Regenerating the soot particulate filter ((Tucson, TL), (Ioniq, AE HEV), (Kona, OS), (i30 / i30cw, PD))</p> <p>Resetting gearbox learning values ((i30 / i30cw, GD))</p> <p>Resetting gearbox learning values ((Santa Fe, CM))</p> <p>Bleeding the ABS/ESC system ((i30 / i30cw, GD), (Kona, OS))</p> <p>Calibrating radar statically ((i30 / i30cw, PD), (Kona, OS))</p> <p>Teach-in clutch system ((i30 / i30cw, GD), (Kona, OS))</p> <p>Bleeding the brake system ((i30 / i30cw, PD))</p> <p>Standardizing the liftgate ((Tucson, NX))</p> <p>Configuring the lane change assist ((Kona, OS))</p> <p>Resetting learned values of steering angle sensor ((i30 / i30cw, GD))</p> <p>De/activating the parking brake service mode ((Ioniq, AE HEV), (Ioniq, AE EV), (Ioniq, AE), (i30 / i30cw, PD), (i30 / i30cw, GD))</p> <p>Initializing the brake-pressure sensor ((Kona, OS))</p> <p>Initializing the torque sensor ((i40 / i40cw, VF))</p> <p>Replacing the particle filter ((Tucson, TL), (Ioniq, AE HEV), (i30 / i30cw, PD), (Kona, OS), (i10, AC3))</p> <p>Calibrating the camera ECU ((i30 / i30cw, PD), (Kona, OS))</p> <p>Learning the steering-angle sensor ((Kona, OS))</p>
<b>  Codings</b>	<p>Initializing the radar unit of distance warning system ((i30 / i30cw, PD), (Kona, OS))</p> <p>Registering the rear radar sensor ((Ioniq, AE HEV), (Ioniq, AE EV), (Kona, OS), (Ioniq, AE))</p>



## Diagnostic devices

Coding injectors ((i30 / i30cw, PD))

Coding the wheel valves ((i30 / i30cw, FD), (i30 / i30cw, PD), (i30 / i30cw, GD), (Kona, OS))

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| **Service resets** (i30 / i30cw, GD), (i30 / i30cw, PD), (Kona, OS)

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| **DoIP/CAN**

| **Capable for diagnostics only with mega macs X**

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| **Cyber Security Management (CSM)**

| **Capable for diagnostics only with Cyber Security Management**

### Jeep

| **Trouble codes** (Cherokee (KL), KL), (Compass (MP), MP)

| **Parameters** (Cherokee (KL), KL)

| **Actuators** (Cherokee (KL), KL)

| **Basic settings** Initializing the transmission actuators ((Cherokee (KL), KL))  
 Bleeding the AWD ((Cherokee (KL), KL))  
 Resetting the gearshift counter ((Cherokee (KL), KL))  
 Learning the steering-angle sensor ((Cherokee (KL), KL))  
 De/activating the parking brake service mode ((Cherokee (KL), KL))  
 Resetting headlight leveling adaptation values ((Cherokee (KL), KL))  
 Resetting gearbox learning values ((Cherokee (KL), KL))  
 Standardizing the liftgate ((Cherokee (KL), KL))  
 Calibrating the front camera ((Cherokee (KL), KL))  
 Initializing the air distribution flap actuator ((Cherokee (KL), KL))

| **Codings** Deactivating the transport mode ((Cherokee (KL), KL))  
 Coding the tire pressure sensor ID{f} ((Cherokee (KL), KL))

| **Service resets** (Cherokee (KL), KL)



## Diagnostic devices

- | DoIP/CAN
  - | Capable for diagnostics only with mega macs X
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- | Cyber Security Management (CSM) (Cherokee (KL), KL), (Compass (MP), MP)
- | Capable for diagnostics only with Cyber Security Management

### Kia

- | **Trouble codes** (Cee'd / Pro Cee'd, CD), (Cee'd / Pro Cee'd, JD), (Niro, DE HEV), (Optima, JF), (Picanto, JA), (Rio, YB), (Sorento, MQ), (Sorento, UM), (Soul, PS), (Soul, PS EV), (Stinger, CK), (Stonic, YB)
- | **Parameters** (Cee'd / Pro Cee'd, CD), (Optima, JF), (Picanto, JA), (Rio, YB), (Sorento, MQ), (Soul, PS), (Soul, PS EV), (Stonic, YB)
- | **Actuators** (Cee'd / Pro Cee'd, CD), (Optima, JF), (Rio, YB), (Sorento, XM), (Soul, PS), (Soul, PS EV), (Stonic, YB)
- | **Basic settings**
  - Adapting the longitudinal acceleration sensor ((Soul, PS EV), (Cee'd / Pro Cee'd, CD))
  - Adapting the accelerator sensor ((Stinger, CK), (Cee'd / Pro Cee'd, CD))
  - Learning the lambda sensor ((Stinger, CK), (Cee'd / Pro Cee'd, CD))
  - Bleeding the fuel system ((Stinger, CK))
  - Learning the throttle valve ((Stinger, CK), (Cee'd / Pro Cee'd, CD))
  - Initializing the fuel high-pressure sensor ((Stinger, CK), (Cee'd / Pro Cee'd, CD))
  - Initializing the differential pressure sensor ((Stinger, CK))
  - Adapting the longitudinal acceleration sensor ((Rio, YB), (Stonic, YB))
  - Initializing the mass airflow sensor ((Stinger, CK), (Cee'd / Pro Cee'd, CD))
  - Calibrating the steering-angle sensor ((Soul, PS EV), (Rio, YB), (Cee'd / Pro Cee'd, CD), (Stonic, YB))
  - Learning the steering-angle sensor ((Cee'd / Pro Cee'd, CD))
  - De/activating the electric parking brake service mode ((Soul, PS EV), (Cee'd / Pro Cee'd, CD))
  - Resetting learned values of the lower EGR ((Cee'd / Pro Cee'd, CD))
  - Resetting transfer case adaptation values ((Sorento, XM))
  - Resetting adaptation values of ABS ECU ((Rio, YB))
  - Bleeding the ABS/ESC system ((Rio, YB), (Stonic, YB))
  - Initializing the rotor position sensor ((Soul, PS EV))
  - Calibrating radar statically ((Cee'd / Pro Cee'd, CD), (Rio, YB), (Stonic, YB))
  - Teach-in clutch system ((Rio, YB), (Cee'd / Pro Cee'd, CD))
  - Resetting engine adaptation values ((Carens, UN), (Sportage, SL), (Stinger, CK), (Optima, JF), (Rio, YB), (Cee'd / Pro Cee'd, CD), (Stonic, YB))



## Diagnostic devices

Activation/reset of tyre-pressure loss warning indicator ((Cee'd / Pro Cee'd, CD), (Rio, YB), (Stonic, YB))

Resetting the driving profile ((Soul, PS EV))

Resetting gearbox learning values ((Stonic, YB))

Bleeding the brake system ((Soul, PS EV), (Cee'd / Pro Cee'd, CD))

Standardizing the liftgate ((Cee'd / Pro Cee'd, CD))

Configuring the lane change assist ((Optima, TF), (Cee'd / Pro Cee'd, CD), (Stonic, YB))

Calibrate ASP ((Rio, YB), (Stonic, YB))

De/activating the parking brake service mode ((Cee'd / Pro Cee'd, JD), (Optima, JF))

Bleeding the cooling system ((Soul, PS EV), (Cee'd / Pro Cee'd, CD))

Regenerating the soot particulate filter ((Niro, DE HEV), (Sportage, QL), (Rio, YB), (Picanto, JA), (Stinger, CK), (Stonic, YB), (Cee'd / Pro Cee'd, CD))

Replacing the particle filter ((Niro, DE HEV), (Sportage, QL), (Rio, YB), (Picanto, JA), (Stinger, CK), (Stonic, YB), (Cee'd / Pro Cee'd, CD))

Calibrating the camera ECU ((Soul, PS EV), (Picanto, JA), (Cee'd / Pro Cee'd, CD), (Optima, JF), (Rio, YB), (Stonic, YB))

Initializing the EGR valve ((Stinger, CK), (Cee'd / Pro Cee'd, CD))

Learning the steering-angle sensor ((Stonic, YB))

Initializing the swirl flap ((Stinger, CK))

### | Codings

Coding the power steering ECU ((Cee'd / Pro Cee'd, CD))

Coding the tire size ((Cee'd / Pro Cee'd, CD), (Rio, YB), (Stonic, YB))

Coding the wheel valves ((Soul, PS EV), (Cee'd / Pro Cee'd, CD))

Initializing the radar unit of distance warning system ((Cee'd / Pro Cee'd, CD), (Rio, YB), (Stonic, YB))

Coding the power steering ((Sportage, QL), (Cee'd / Pro Cee'd, CD))

Registering the rear radar sensor ((Niro, DE HEV), (Optima, TF), (Cee'd / Pro Cee'd, JD), (Sorento, UM), (Cee'd / Pro Cee'd, CD))

Coding injectors ((Cee'd / Pro Cee'd, CD))

### | Service resets

((Cee'd / Pro Cee'd, CD), (Niro, DE HEV), (Optima, JF), (Rio, YB), (Sorento, UM), (Soul, PS), (Soul, PS EV), (Stinger, CK), (Stonic, YB))

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### | DoIP/CAN

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### | Cyber Security Management (CSM)

| Capable for diagnostics only with Cyber Security Management



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Diagnostic devices



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Diagnostic devices

**Lancia**



## Diagnostic devices

### Land-Rover

- | **Trouble codes** (Defender-III, LE663), (Range Rover Evoque-I, L551), (Range Rover Velar, L560), (Range Rover-IV (L405, L405))
- | **Parameters** (Defender-III, LE663), (Range Rover Evoque-I, L551), (Range Rover Velar, L560), (Range Rover-IV (L405, L405))
- | **Actuators**
- | **Basic settings**
  - Calibrating the steering-angle sensor ((Range Rover-IV (L405, L405), (Range Rover Evoque-I, L551))
  - Replacing the fuel pre-supply pump ((Range Rover-IV (L405, L405), (Defender-III, LE663), (Range Rover Evoque-I, L551))
  - Resetting oxygen sensor adaptation values ((Range Rover-IV (L405, L405), (Range Rover Evoque-I, L551))
  - Filling the regeneration additive container ((Defender-III, LE663))
  - Resetting engine adaptation values ((Range Rover Evoque-I, L551))
  - Replace the throttle valve actuator ((Range Rover Evoque-I, L551))
  - De-standardizing the power window FR ((Range Rover-IV (L405, L405), (Range Rover Evoque-I, L551))
  - De-standardizing the power window FL ((Range Rover-IV (L405, L405), (Range Rover Evoque-I, L551))
  - Bleeding the fuel system ((Range Rover Evoque-I, L551))
  - Initializing the rain sensor ((Range Rover-IV (L405, L405), (Defender-III, LE663), (Range Rover Evoque-I, L551))
  - Resetting the indicator light "Water in fuel" ((Range Rover-IV (L405, L405), (Defender-III, LE663), (Range Rover Evoque-I, L551))
  - Filling/bleeding the cooling system ((Defender-III, LE663), (Range Rover Evoque-I, L551))
  - Resetting the A/C compressor learning values ((Defender-III, LE663))
  - Replacing the diesel exhaust fluid pump ((Defender-III, LE663), (Range Rover Evoque-I, L551))
  - Resetting boost pressure controller learned values ((Range Rover Evoque-I, L551))
  - Calibrate radar dynamically ((Defender-III, LE663))
  - Resetting mass airflow sensor adaptation values ((Range Rover Evoque-I, L551))
  - Draining/filling the refrigerant circuit ((Defender-III, LE663))
  - Initialize actuator of coolant temperature control ((Defender-III, LE663))
  - Adapting the turbine wheel shut-off valve ((Range Rover-IV (L405, L405), (Range Rover Evoque-I, L551), (Range Rover Velar, L560))
  - Resetting the start inhibitor of DEF injection system ((Range Rover Evoque-I, L551), (Range Rover Velar, L560))
  - De/activating the parking brake service mode ((Range Rover-IV (L405, L405), (Defender-III, LE663), (Range Rover Evoque-I, L551))
  - Standardizing the loading space cover ((Defender-III, LE663))



## Diagnostic devices

Resetting learned values of the oxidation catalyst ((Range Rover-IV (L405, L405), (Range Rover Evoque-I, L551), (Range Rover Velar, L560))

Initializing the glow plugs ((Defender-III, LE663), (Range Rover Evoque-I, L551))

Adapting the SCR catalyst upon replacement ((Range Rover Evoque-I, L551), (Range Rover Velar, L560))

Adapting the induction system ((Range Rover Evoque-I, L551), (Range Rover Velar, L560))

Initializing diesel exhaust fluid level sensor ((Defender-III, LE663), (Range Rover Evoque-I, L551))

Initializing the A/C flap actuators ((Range Rover-IV (L405, L405), (Range Rover Evoque-I, L551))

Bleeding the brake system ((Range Rover-IV (L405, L405), (Range Rover Evoque-I, L551))

Reset learned values of the EGR bypass valve ((Defender-III, LE663))

Resetting EGR valve learning values ((Range Rover-IV (L405, L405), (Defender-III, LE663), (Range Rover Evoque-I, L551), (Range Rover Velar, L560))

Calibrating the front camera ((Range Rover-IV (L405, L405), (Defender-III, LE663), (Range Rover Evoque-I, L551))

Initializing the variable valve lift ((Range Rover Evoque-I, L551))

Resetting throttle valve adaptation values ((Range Rover-IV (L405, L405), (Defender-III, LE663), (Range Rover Evoque-I, L551))

Replacing the particle filter ((Range Rover-IV (L405, L405), (Defender-III, LE663), (Range Rover Evoque-I, L551))

Initializing the EGR valve ((Range Rover Evoque-I, L551))

Adapting the headlight motor ((Defender-III, LE663))

Adapting the injection quantity ((Range Rover-IV (L405, L405), (Defender-III, LE663), (Range Rover Evoque-I, L551), (Range Rover Velar, L560))

Initializing ride height sensors ((Range Rover-IV (L405, L405), (Range Rover Evoque-I, L551))

Resetting differential pressure sensor learning values ((Range Rover-IV (L405, L405), (Range Rover Evoque-I, L551))

### | Codings

Registering the battery ((Range Rover-IV (L405, L405), (Defender-III, LE663), (Range Rover Evoque-I, L551))

Coding injectors ((Range Rover-IV (L405, L405))

Coding the tire pressure check ((Range Rover-IV (L405, L405), (Range Rover Evoque-I, L551))

### | Service resets

((Defender-III, LE663), (Range Rover Evoque-I, L551), (Range Rover-IV (L405, L405))



## Diagnostic devices

- | **DoIP/CAN** (Range Rover-IV (L405, L405), (Range Rover Velar, L560), (Range Rover Evoque-I, L551), (Defender-III, LE663)
  - | **Capable for diagnostics only with mega macs X**
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- | **Cyber Security Management (CSM)**
- | **Capable for diagnostics only with Cyber Security Management**

### Lexus

- | **Trouble codes** (IS, GSE3), (UX, KMA10)
  - | **Parameters**
  - | **Actuators**
  - | **Basic settings**
  - | **Codings**
  - | **Service resets**
- 

- | **DoIP/CAN**
  - | **Capable for diagnostics only with mega macs X**
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- | **Cyber Security Management (CSM)**
- | **Capable for diagnostics only with Cyber Security Management**

### MAN

- | **Trouble codes** (TGE, SYN1E), (TGE, SZN1E), (TGE, UY)
- | **Parameters** (TGE, SYN1E), (TGE, SZN1E)
- | **Actuators** (TGE, SYN1E), (TGE, SZN1E)
- | **Basic settings**
  - Initializing the adaptive cruise control ((TGE, SYN1E), (TGE, SZN1E))
  - Filling fuel lines of parking heater/auxiliary heater ((TGE, SYN1E), (TGE, SZN1E))
  - Regenerating the soot particulate filter ((TGE, SYN1E), (TGE, SZN1E))
  - Resetting the diesel exhaust fluid level ((TGE, SYN1E), (TGE, SZN1E))



## Diagnostic devices

Bleeding the fuel system ((TGE, SYN1E), (TGE, SZN1E))  
Burning off aux. heater/independent car heater ((TGE, SYN1E), (TGE, SZN1E))  
Adapting the soot particulate filter ((TGE, SYN1E), (TGE, SZN1E))  
Resetting the start inhibitor of DEF injection system ((TGE, SYN1E), (TGE, SZN1E))  
Learning the steering-angle sensor ((TGE, SYN1E), (TGE, SZN1E))  
Performing engine adaptations ((TGE, SYN1E), (TGE, SZN1E))  
Resetting the warning message of DEF injection system ((TGE, UZ), (TGE, UY))  
Performing the initial run-in of the air conditioning compressor ((TGE, SYN1E), (TGE, SZN1E))  
Special bleeding ((TGE, UZ), (TGE, UY), (TGE, SYN1E), (TGE, SZN1E))  
Initializing the A/C flap actuators ((TGE, SYN1E), (TGE, SZN1E))  
Initializing the alternator ((TGE, SYN1E), (TGE, SZN1E))  
Initializing the oxidation catalyst ((TGE, UZ), (TGE, UY), (TGE, SYN1E), (TGE, SZN1E))  
Initialize 4WD clutch oil pump ((TGE, SYN1E), (TGE, SZN1E))  
Initializing the air distribution flap actuator ((TGE, SYN1E), (TGE, SZN1E))  
Resetting the impact mode ((TGE, SYN1E), (TGE, SZN1E))  
Bleeding the cooling system ((TGE, UY), (TGE, SYN1E), (TGE, SZN1E))  
Calibrating the camera ECU ((TGE, SYN1E), (TGE, SZN1E))  
Adapting the fuel burning heater remote control ((TGE, SYN1E), (TGE, SZN1E))  
Unlocking aux. heater/independent car heater ((TGE, SYN1E), (TGE, SZN1E))  
Initializing the ESC sensors ((TGE, SYN1E), (TGE, SZN1E))

### | Codings

Adjust parking assistance volume ((TGE, SYN1E), (TGE, SZN1E))  
General ECU replacement ((TGE, SYN1E), (TGE, SZN1E))  
Coding the language version ((TGE, SYN1E), (TGE, SZN1E))  
Registering the battery ((TGE, SYN1E), (TGE, SZN1E))  
Expert mode ECU coding ((TGE, SYN1E), (TGE, SZN1E))  
Coding the rain/light sensor ((TGE, SYN1E), (TGE, SZN1E))  
Deactivating/activating the transport mode ((TGE, SYN1E), (TGE, SZN1E))  
Coding the trailer detection ((TGE, SYN1E), (TGE, SZN1E))  
Coding the steering-column module ((TGE, SYN1E), (TGE, SZN1E))  
Adapting the trailer hitch to advanced driver assistance systems ((TGE, SYN1E), (TGE, SZN1E))  
Coding injectors ((TGE, SYN1E), (TGE, SZN1E))  
De/activating the trailer hitch ((TGE, SYN1E), (TGE, SZN1E))  
Coding the gateway installation list ((TGE, SYN1E), (TGE, SZN1E))

### | Service resets

(TGE, SYN1E), (TGE, SZN1E)



## Diagnostic devices

- | DoIP/CAN
  - | Capable for diagnostics only with mega macs X
- 

- | Cyber Security Management (CSM)
- | Capable for diagnostics only with Cyber Security Management

### Mazda

- | **Trouble codes** (Mazda 2, DJ1), (Mazda 6, GJ), (MX-30, DR)
- | **Parameters** (CX-5, KF), (Mazda 2, DJ1), (Mazda 6, GJ), (MX-30, DR)
- | **Actuators** (MX-30, DR)
- | **Basic settings**
  - Adapting the longitudinal acceleration sensor ((Mazda 2, DJ1), (MX-30, DR))
  - Initializing the brake-pressure sensor ((Mazda 2, DJ1))
  - Resetting engine adaptation values ((Mazda 6, GG), (Mazda 6, GY), (Mazda 6, GJ), (Mazda 6, GJ,GL))
  - Initializing the lateral acceleration sensor ((Mazda 2, DJ1), (MX-30, DR))
  - Resetting oxygen sensor adaptation values ((Mazda 6, GG), (Mazda 6, GY), (Mazda 6, GJ), (Mazda 6, GJ,GL))
  - Resetting mass airflow sensor adaptation values ((Mazda 6, GJ), (Mazda 6, GJ,GL))
  - Initializing the mass airflow sensor ((Mazda 6, GG), (Mazda 6, GY))
  - Learning the turbocharger ((Mazda 6, GJ), (Mazda 6, GJ,GL))
  - Learning the throttle valve ((Mazda 6, GJ), (Mazda 6, GJ,GL))
  - Resetting the particulate filter learning values ((Mazda 6, GG), (Mazda 6, GY), (Mazda 6, GJ), (Mazda 6, GJ,GL))
  - Calibrating rear radar sensors ((MX-30, DR))
  - Regenerating the soot particulate filter ((Mazda 6, GG), (Mazda 5, CR1), (Mazda 6, GY), (Mazda 6, GH), (Mazda 6, GJ), (Mazda 6, GJ,GL))
  - Initializing the brake-pressure sensor ((MX-30, DR))
  - Initializing the adaptive cruise control ((MX-30, DR))
  - Initializing the yaw rate sensor ((Mazda 2, DJ1), (MX-30, DR))
  - Reset learned values of injectors. ((Mazda 6, GG), (Mazda 6, GY), (Mazda 6, GJ), (Mazda 6, GJ,GL))
  - Initializing the adaptive cruise control ((Mazda 6, GJ), (Mazda 2, DJ1))
  - Configuring the lane change assist ((Mazda 6, GJ), (Mazda 2, DJ1))
  - Resetting EGR valve learning values ((Mazda 6, GG), (Mazda 6, GY), (Mazda 6, GJ), (Mazda 6, GJ,GL))



## Diagnostic devices

Resetting adaptation values of EGR valve and throttle valve ((Mazda 6, GG), (Mazda 5, CR1), (Mazda 6, GY))

Calibrating the camera ((MX-30, DR))

Calibrating the camera ECU ((Mazda 6, GJ), (Mazda 2, DJ1), (MX-30, DR))

Calibrating front radar sensors ((MX-30, DR))

Adapting the injection quantity ((Mazda 6, GJ), (Mazda 6, GL), (Mazda 6, GJ,GL))

Reset fuel pump learning values ((Mazda 6, GG), (Mazda 6, GY), (Mazda 6, GJ), (Mazda 6, GJ,GL))

Resetting headlight leveling adaptation values ((Mazda 6, GL), (Mazda 6, GJ,GL), (Mazda 2, DJ1), (MX-30, DR))

Resetting differential pressure sensor learning values ((Mazda 6, GG), (Mazda 6, GY), (Mazda 6, GL), (Mazda 6, GJ,GL))

### | Codings

Coding injectors ((Mazda 5, CR1), (Mazda 6, GJ))

Adjusting the engine oil monitoring function ((Mazda 6, GJ), (Mazda 6, GJ,GL), (Mazda 2, DJ1))

Coding the wheel valves ((Mazda 6, GG))

### | Service resets

(Mazda 6, GJ)

### | DoIP/CAN

| Capable for diagnostics only with mega macs X

### | Cyber Security Management (CSM)

| Capable for diagnostics only with Cyber Security Management

## Mercedes

### | Trouble codes

(A-Klasse, 177144), (B-Klasse, 242848), (C-Klasse, 205213), (C-Klasse, 205012), (C-Klasse, 206041), (CLA-Klasse, 118615), (E-Klasse, 207373), (E-Klasse, 207425), (E-Klasse, 238420), (EQA, 243701), (EQB, 243708), (EQE, ), (EQS, 297123), (GLS-Klasse, 167921), (S-Klasse, 221179), (SL-Klasse, 232), (Sprinter, 907621,907623), (Sprinter, 910621,910623), (V-Klasse, 447601,447603,447605), (V-Klasse, 448813), (X-Klasse, 471210)

### | Parameters

(A-Klasse, 177144), (C-Klasse, 205213), (C-Klasse, 205012), (C-Klasse, 206041), (CLA-Klasse, 118615), (E-Klasse, 212248), (E-Klasse, 238420), (EQE, ), (EQS, 297123), (SL-Klasse, 232), (X-Klasse, 470252), (X-Klasse, 471252)

### | Actuators

(A-Klasse, 177144), (C-Klasse, 204200), (C-Klasse, 205219), (C-Klasse, 205266), (CLA-Klasse, 118615), (E-Klasse, 238420), (X-Klasse, 470252), (X-Klasse, 471252)

### | Basic settings

Learning the intake port shut-off ((C-Klasse, 205219), (E-Klasse, 238420), (E-Klasse, 238423), (C-Klasse, 205319), (CLA-Klasse, 118615), (E-Klasse, 238320), (E-Klasse, 238323))



## Diagnostic devices

Resetting learned values of the power window ((C-Klasse, 205266))

HFM drift compensation ((C-Klasse, 205219), (E-Klasse, 238420), (E-Klasse, 238423), (C-Klasse, 205319), (CLA-Klasse, 118615), (E-Klasse, 238320), (E-Klasse, 238323))

Activating the fuel pump ((A-Klasse, 176012), (B-Klasse, 246212), (A-Klasse, 176011), (B-Klasse, 246211), (CLA-Klasse, 117312), (CLA-Klasse, 117912), (C-Klasse, 205219), (E-Klasse, 238420), (E-Klasse, 238423), (C-Klasse, 205319), (CLA-Klasse, 118615), (E-Klasse, 238320), (E-Klasse, 238323))

Initializing the oxidation catalyst upon engine ECU replacement ((C-Klasse, 205219), (E-Klasse, 238420), (E-Klasse, 238423), (C-Klasse, 205319), (CLA-Klasse, 118615), (E-Klasse, 238320), (E-Klasse, 238323))

Initializing the oxidation catalyst ((B-Klasse, 246200), (B-Klasse, 246201), (A-Klasse, 176012), (A-Klasse, 176001), (A-Klasse, 176000), (A-Klasse, 176003), (B-Klasse, 246203), (CLA-Klasse, 117303), (A-Klasse, 176005), (A-Klasse, 176002), (A-Klasse, 176008), (CLA-Klasse, 117302), (CLA-Klasse, 117305), (CLA-Klasse, 117308), (CLA-Klasse, 117301), (B-Klasse, 246208), (B-Klasse, 246205), (B-Klasse, 246202), (CLA-Klasse, 117905), (CLA-Klasse, 117902), (CLA-Klasse, 117903), (CLA-Klasse, 117908), (C-Klasse, 205219), (E-Klasse, 238420), (E-Klasse, 238423), (C-Klasse, 205319), (CLA-Klasse, 118615), (B-Klasse, 246207), (E-Klasse, 238320), (E-Klasse, 238323))

Learning the lambda sensor ((A-Klasse, 176012), (B-Klasse, 246212), (A-Klasse, 176011), (B-Klasse, 246211), (CLA-Klasse, 117312), (CLA-Klasse, 117912), (C-Klasse, 205219), (E-Klasse, 238420), (E-Klasse, 238423), (C-Klasse, 205319), (CLA-Klasse, 118615), (E-Klasse, 238320), (E-Klasse, 238323))

Reset exhaust-gas aftertreatment learning values ((C-Klasse, 205219), (C-Klasse, 205319))

Bleeding the fuel system ((C-Klasse, 205219), (E-Klasse, 238420), (E-Klasse, 238423), (C-Klasse, 205319), (CLA-Klasse, 118615), (E-Klasse, 238320), (E-Klasse, 238323))

Adapting the diesel exhaust fluid tank ((X-Klasse, 470210), (X-Klasse, 470230), (X-Klasse, 470231), (X-Klasse, 470211), (X-Klasse, 471210), (X-Klasse, 471230), (X-Klasse, 471231))

Initializing the fuel pressure sensor or the fuel rail ((A-Klasse, 176012), (B-Klasse, 246212), (A-Klasse, 176011), (B-Klasse, 246211), (CLA-Klasse, 117312), (CLA-Klasse, 117912), (C-Klasse, 205219), (E-Klasse, 238420), (E-Klasse, 238423), (C-Klasse, 205319), (CLA-Klasse, 118615), (E-Klasse, 238320), (E-Klasse, 238323))

Initializing the differential pressure sensor ((A-Klasse, 176012), (B-Klasse, 246212), (A-Klasse, 176011), (B-Klasse, 246211), (CLA-Klasse, 117312), (CLA-Klasse, 117912), (C-Klasse, 205219), (E-Klasse, 238420), (E-Klasse, 238423), (C-Klasse, 205319), (CLA-Klasse, 118615), (E-Klasse, 238320), (E-Klasse, 238323))

Initializing the high-pressure EGR valve ((A-Klasse, 176012), (B-Klasse, 246212), (A-Klasse, 176011), (B-Klasse, 246211), (CLA-Klasse, 117312), (CLA-Klasse, 117912), (C-Klasse, 205219), (E-Klasse, 238420), (E-Klasse, 238423), (C-Klasse, 205319), (CLA-Klasse, 118615), (E-Klasse, 238320), (E-Klasse, 238323))

Resetting the fuel low pressure adaptation values ((C-Klasse, 205219), (E-Klasse, 238420), (E-Klasse, 238423), (C-Klasse, 205319), (CLA-Klasse, 118615), (E-Klasse, 238320), (E-Klasse, 238323))

Initializing the soot particulate filter upon engine ECU replacement ((B-Klasse, 246200), (B-Klasse, 246201), (CLA-Klasse, 117303), (CLA-Klasse, 117302), (CLA-Klasse, 117305), (CLA-Klasse, 117308), (CLA-Klasse, 117301), (CLA-Klasse, 117905), (CLA-Klasse, 117902), (CLA-Klasse, 117903), (CLA-Klasse, 117908), (C-Klasse, 205219), (E-Klasse, 238420), (E-Klasse, 238423), (C-Klasse, 205319), (CLA-Klasse, 118615), (E-Klasse, 238320), (E-Klasse, 238323))

Resetting long-term adaptation values of diesel exhaust fluid dosing module ((B-Klasse, 246200), (B-Klasse, 246201), (A-Klasse, 176012), (A-Klasse, 176001), (A-Klasse, 176000), (A-Klasse, 176003), (B-Klasse, 246203), (CLA-Klasse, 117303), (A-Klasse, 176005), (A-



## Diagnostic devices

Klasse, 176002), (A-Klasse, 176008), (CLA-Klasse, 117302), (CLA-Klasse, 117305), (CLA-Klasse, 117308), (CLA-Klasse, 117301), (B-Klasse, 246208), (B-Klasse, 246205), (B-Klasse, 246202), (CLA-Klasse, 117905), (CLA-Klasse, 117902), (CLA-Klasse, 117903), (CLA-Klasse, 117908), (C-Klasse, 205219), (E-Klasse, 238420), (E-Klasse, 238423), (C-Klasse, 205319), (CLA-Klasse, 118615), (B-Klasse, 246207), (E-Klasse, 238320), (E-Klasse, 238323))

Adapting the pressure-regulating valve ((C-Klasse, 205219), (E-Klasse, 238420), (E-Klasse, 238423), (C-Klasse, 205319), (CLA-Klasse, 118615), (E-Klasse, 238320), (E-Klasse, 238323))

Initializing the mass airflow sensor ((C-Klasse, 205219), (E-Klasse, 238420), (E-Klasse, 238423), (C-Klasse, 205319), (CLA-Klasse, 118615), (E-Klasse, 238320), (E-Klasse, 238323))

Initialising the boost pressure regulator ((C-Klasse, 205219), (E-Klasse, 238420), (E-Klasse, 238423), (C-Klasse, 205319), (CLA-Klasse, 118615), (E-Klasse, 238320), (E-Klasse, 238323))

Resetting the start inhibitor of DEF injection system ((C-Klasse, 205219), (C-Klasse, 205319))

Resetting air filter learned values ((C-Klasse, 205219), (E-Klasse, 238420), (E-Klasse, 238423), (C-Klasse, 205319), (CLA-Klasse, 118615), (E-Klasse, 238320), (E-Klasse, 238323))

Initializing the soot particulate filter ((A-Klasse, 176012), (B-Klasse, 246212), (A-Klasse, 176011), (B-Klasse, 246211), (CLA-Klasse, 117312), (CLA-Klasse, 117912), (C-Klasse, 205219), (E-Klasse, 238420), (E-Klasse, 238423), (C-Klasse, 205319), (CLA-Klasse, 118615), (E-Klasse, 238320), (E-Klasse, 238323))

Fill the DEF tank ((C-Klasse, 205219), (E-Klasse, 238420), (E-Klasse, 238423), (C-Klasse, 205319), (CLA-Klasse, 118615), (E-Klasse, 238320), (E-Klasse, 238323))

Resetting learned values of NOx sensor ((B-Klasse, 246200), (B-Klasse, 246201), (A-Klasse, 176012), (A-Klasse, 176001), (A-Klasse, 176000), (A-Klasse, 176003), (B-Klasse, 246203), (CLA-Klasse, 117303), (A-Klasse, 176005), (A-Klasse, 176002), (A-Klasse, 176008), (CLA-Klasse, 117302), (CLA-Klasse, 117305), (CLA-Klasse, 117308), (CLA-Klasse, 117301), (B-Klasse, 246208), (B-Klasse, 246205), (B-Klasse, 246202), (CLA-Klasse, 117905), (CLA-Klasse, 117902), (CLA-Klasse, 117903), (CLA-Klasse, 117908), (E-Klasse, 238420), (E-Klasse, 238423), (CLA-Klasse, 118615), (B-Klasse, 246207), (E-Klasse, 238320), (E-Klasse, 238323))

Initializing diesel exhaust fluid level sensor ((C-Klasse, 205319))

Resetting the impact mode ((C-Klasse, 205219), (E-Klasse, 238420), (E-Klasse, 238423), (C-Klasse, 205319), (CLA-Klasse, 118615), (E-Klasse, 238320), (E-Klasse, 238323))

Resetting counter for synchronization loss of crankshaft/camshaft ((C-Klasse, 205219), (E-Klasse, 238420), (E-Klasse, 238423), (C-Klasse, 205319), (CLA-Klasse, 118615), (E-Klasse, 238320), (E-Klasse, 238323))

Learning throttle valve stop ((A-Klasse, 176012), (B-Klasse, 246212), (A-Klasse, 176011), (B-Klasse, 246211), (CLA-Klasse, 117312), (CLA-Klasse, 117912), (C-Klasse, 205219), (E-Klasse, 238420), (E-Klasse, 238423), (C-Klasse, 205319), (CLA-Klasse, 118615), (E-Klasse, 238320), (E-Klasse, 238323))

Resetting learned values of camshaft sensor ((A-Klasse, 176012), (A-Klasse, 176001), (A-Klasse, 176000), (A-Klasse, 176003), (A-Klasse, 176005), (A-Klasse, 176002), (A-Klasse, 176008), (C-Klasse, 205219), (E-Klasse, 238420), (E-Klasse, 238423), (C-Klasse, 205319), (CLA-Klasse, 118615), (E-Klasse, 238320), (E-Klasse, 238323))

Adapting the SCR catalyst upon replacement ((B-Klasse, 246200), (B-Klasse, 246201), (A-Klasse, 176012), (A-Klasse, 176001), (A-Klasse, 176000), (A-Klasse, 176003), (B-Klasse, 246203), (CLA-Klasse, 117303), (A-Klasse, 176005), (A-Klasse, 176002), (A-Klasse, 176008), (CLA-Klasse, 117302), (CLA-Klasse, 117305), (CLA-Klasse, 117308), (CLA-Klasse, 117301), (B-Klasse, 246208), (B-Klasse, 246205), (B-Klasse, 246202), (CLA-Klasse, 117905), (CLA-Klasse, 117902), (CLA-Klasse, 117903), (CLA-Klasse, 117908), (X-Klasse, 470210), (X-Klasse, 470230), (X-Klasse, 470231), (X-Klasse, 470211), (C-Klasse, 205219),



## Diagnostic devices

(E-Klasse, 238420), (E-Klasse, 238423), (X-Klasse, 471210), (X-Klasse, 471230), (X-Klasse, 471231), (C-Klasse, 205319), (CLA-Klasse, 118615), (B-Klasse, 246207), (E-Klasse, 238320), (E-Klasse, 238323))

Adapting the temperature sensor before SCR catalyst ((B-Klasse, 246200), (B-Klasse, 246201), (A-Klasse, 176012), (A-Klasse, 176001), (A-Klasse, 176000), (A-Klasse, 176003), (B-Klasse, 246203), (CLA-Klasse, 117303), (A-Klasse, 176005), (A-Klasse, 176002), (A-Klasse, 176008), (CLA-Klasse, 117302), (CLA-Klasse, 117305), (CLA-Klasse, 117308), (CLA-Klasse, 117301), (B-Klasse, 246208), (B-Klasse, 246205), (B-Klasse, 246202), (CLA-Klasse, 117905), (CLA-Klasse, 117902), (CLA-Klasse, 117903), (CLA-Klasse, 117908), (C-Klasse, 205219), (E-Klasse, 238420), (E-Klasse, 238423), (C-Klasse, 205319), (CLA-Klasse, 118615), (B-Klasse, 246207), (E-Klasse, 238320), (E-Klasse, 238323))

Regenerating the soot particulate filter during driving ((B-Klasse, 246200), (B-Klasse, 246201), (A-Klasse, 176012), (B-Klasse, 246212), (CLA-Klasse, 117303), (A-Klasse, 176011), (B-Klasse, 246211), (CLA-Klasse, 117302), (CLA-Klasse, 117305), (CLA-Klasse, 117308), (CLA-Klasse, 117312), (CLA-Klasse, 117301), (CLA-Klasse, 117905), (CLA-Klasse, 117902), (CLA-Klasse, 117903), (CLA-Klasse, 117912), (CLA-Klasse, 117908), (E-Klasse, 238420), (E-Klasse, 238423), (CLA-Klasse, 118615), (E-Klasse, 238320), (E-Klasse, 238323))

Resetting learned values of diesel exhaust fluid pump ((C-Klasse, 205319))

Initializing the parking brake ECU ((C-Klasse, 205266))

Reset learned values of injectors. ((A-Klasse, 176012), (B-Klasse, 246212), (A-Klasse, 176011), (B-Klasse, 246211), (CLA-Klasse, 117312), (CLA-Klasse, 117912), (C-Klasse, 205219), (E-Klasse, 238420), (E-Klasse, 238423), (C-Klasse, 205319), (CLA-Klasse, 118615), (E-Klasse, 238320), (E-Klasse, 238323))

Adapting the exhaust gas flap actuator ((A-Klasse, 176012), (B-Klasse, 246212), (A-Klasse, 176011), (B-Klasse, 246211), (CLA-Klasse, 117312), (CLA-Klasse, 117912), (C-Klasse, 205219), (E-Klasse, 238420), (E-Klasse, 238423), (C-Klasse, 205319), (CLA-Klasse, 118615), (E-Klasse, 238320), (E-Klasse, 238323))

Initializing the diesel exhaust fluid pump module ((X-Klasse, 470210), (X-Klasse, 470230), (X-Klasse, 470231), (X-Klasse, 470211), (X-Klasse, 471210), (X-Klasse, 471230), (X-Klasse, 471231))

Activation/reset of tyre-pressure loss warning indicator ((C-Klasse, 204200), (C-Klasse, 204282), (C-Klasse, 204292), (C-Klasse, 204082), (C-Klasse, 204092), (C-Klasse, 204203), (C-Klasse, 204247), (C-Klasse, 204220), (C-Klasse, 204225), (C-Klasse, 204000), (C-Klasse, 204047), (C-Klasse, 204022), (C-Klasse, 204086), (C-Klasse, 204286), (C-Klasse, 204349), (C-Klasse, 204302), (C-Klasse, 204080), (C-Klasse, 204088), (C-Klasse, 204055), (C-Klasse, 204277), (C-Klasse, 204008), (C-Klasse, 204041), (C-Klasse, 204054), (C-Klasse, 204241), (C-Klasse, 204046), (C-Klasse, 204246), (C-Klasse, 204052), (C-Klasse, 204081), (C-Klasse, 204087), (C-Klasse, 204252), (C-Klasse, 204254), (C-Klasse, 204256), (C-Klasse, 204007), (C-Klasse, 204207), (C-Klasse, 204289), (C-Klasse, 204089), (C-Klasse, 204208), (C-Klasse, 204056), (C-Klasse, 204222), (C-Klasse, 204201), (C-Klasse, 204044, 204045), (C-Klasse, 204077), (C-Klasse, 204044), (C-Klasse, 204006), (C-Klasse, 204245), (C-Klasse, 204065), (C-Klasse, 204249), (C-Klasse, 204248), (C-Klasse, 204025), (C-Klasse, 204049), (C-Klasse, 204001), (C-Klasse, 204048), (C-Klasse, 204002), (C-Klasse, 204045), (C-Klasse, 204303), (C-Klasse, 204347), (C-Klasse, 204377), (C-Klasse, 204078), (C-Klasse, 204003), (C-Klasse, 204057), (C-Klasse, 204202), (C-Klasse, 204285), (C-Klasse, 204231), (C-Klasse, 204357), (C-Klasse, ), (C-Klasse, 204031))

Resetting adaptation values of radar sensor rear ((C-Klasse, 205266))

Resetting exhaust-gas temperature sensor adaptation values of soot particulate filter ((C-Klasse, 205219), (E-Klasse, 238420), (E-Klasse, 238423), (C-Klasse, 205319), (CLA-Klasse, 118615), (E-Klasse, 238320), (E-Klasse, 238323))

Initializing the gear sensor ((C-Klasse, 205219), (E-Klasse, 238420), (E-Klasse, 238423), (C-Klasse, 205319), (CLA-Klasse, 118615), (E-Klasse, 238320), (E-Klasse, 238323))



## Diagnostic devices

Initializing the exhaust temperature sensor ((C-Klasse, 205219), (E-Klasse, 238420), (E-Klasse, 238423), (C-Klasse, 205319), (CLA-Klasse, 118615), (E-Klasse, 238320), (E-Klasse, 238323))

Calibrate rearview camera ((C-Klasse, 205266))

Calibrating the front camera ((S-Klasse, 223030,223130), (SL-Klasse, 232), (S-Klasse, 223031,223131), (S-Klasse, 223033,223133), (S-Klasse, 223061,223161), (S-Klasse, 223063,223163), (S-Klasse, 223068,223168), (S-Klasse, 223076,223176), (S-Klasse, 223060,223160), (C-Klasse, 206041), (C-Klasse, 206042), (C-Klasse, 206043), (C-Klasse, 206003), (C-Klasse, 206016,206004), (C-Klasse, 206005), (C-Klasse, 206046), (C-Klasse, 206047), (C-Klasse, 206006), (C-Klasse, 206007), (C-Klasse, 206241), (C-Klasse, 206242), (C-Klasse, 206243), (C-Klasse, 206203), (C-Klasse, 206204,206216), (C-Klasse, 206205), (C-Klasse, 206246), (C-Klasse, 206247), (C-Klasse, 206206), (EQE, ), (EQS, 297123), (EQS, 297144), (C-Klasse, 206054), (C-Klasse, 206254))

Resetting high-pressure fuel pump adaptation values ((A-Klasse, 176012), (B-Klasse, 246212), (A-Klasse, 176011), (B-Klasse, 246211), (CLA-Klasse, 117312), (CLA-Klasse, 117912), (C-Klasse, 205219), (E-Klasse, 238420), (E-Klasse, 238423), (C-Klasse, 205319), (CLA-Klasse, 118615), (E-Klasse, 238320), (E-Klasse, 238323))

Initializing the low pressure EGR valve ((A-Klasse, 176012), (B-Klasse, 246212), (A-Klasse, 176011), (B-Klasse, 246211), (CLA-Klasse, 117312), (CLA-Klasse, 117912), (C-Klasse, 205219), (E-Klasse, 238420), (E-Klasse, 238423), (C-Klasse, 205319), (CLA-Klasse, 118615), (E-Klasse, 238320), (E-Klasse, 238323))

Initializing the clutch pedal position ((B-Klasse, 246212), (B-Klasse, 246211), (C-Klasse, 205219), (E-Klasse, 238420), (E-Klasse, 238423), (C-Klasse, 205319), (CLA-Klasse, 118615), (E-Klasse, 238320), (E-Klasse, 238323))

Calibrating the zero fuel qty ((C-Klasse, 205219), (E-Klasse, 238420), (E-Klasse, 238423), (C-Klasse, 205319), (CLA-Klasse, 118615), (E-Klasse, 238320), (E-Klasse, 238323))

Learning the power windows ((C-Klasse, 205266))

Resetting the variable turbocharger adaptation values ((A-Klasse, 176012), (B-Klasse, 246212), (A-Klasse, 176011), (B-Klasse, 246211), (CLA-Klasse, 117312), (CLA-Klasse, 117912), (C-Klasse, 205219), (E-Klasse, 238420), (E-Klasse, 238423), (C-Klasse, 205319), (CLA-Klasse, 118615), (E-Klasse, 238320), (E-Klasse, 238323))

Resetting the quantity mean value adaptation ((C-Klasse, 205219), (E-Klasse, 238420), (E-Klasse, 238423), (C-Klasse, 205319), (CLA-Klasse, 118615), (E-Klasse, 238320), (E-Klasse, 238323))

Calibrating the camera ECU ((C-Klasse, 205266))

Initializing the EGR valve ((C-Klasse, 205219), (E-Klasse, 238420), (E-Klasse, 238423), (C-Klasse, 205319), (CLA-Klasse, 118615), (E-Klasse, 238320), (E-Klasse, 238323))

Initializing the diesel exhaust fluid injector ((B-Klasse, 246200), (B-Klasse, 246201), (A-Klasse, 176012), (A-Klasse, 176001), (A-Klasse, 176000), (A-Klasse, 176003), (B-Klasse, 246203), (CLA-Klasse, 117303), (A-Klasse, 176005), (A-Klasse, 176002), (A-Klasse, 176008), (CLA-Klasse, 117302), (CLA-Klasse, 117305), (CLA-Klasse, 117308), (CLA-Klasse, 117301), (B-Klasse, 246208), (B-Klasse, 246205), (B-Klasse, 246202), (CLA-Klasse, 117905), (CLA-Klasse, 117902), (CLA-Klasse, 117903), (CLA-Klasse, 117908), (X-Klasse, 470210), (X-Klasse, 470230), (X-Klasse, 470231), (X-Klasse, 470211), (C-Klasse, 205219), (E-Klasse, 238420), (E-Klasse, 238423), (X-Klasse, 471210), (X-Klasse, 471230), (X-Klasse, 471231), (C-Klasse, 205319), (CLA-Klasse, 118615), (B-Klasse, 246207), (E-Klasse, 238320), (E-Klasse, 238323))

Actuating the installation/removal position of the parking brake ((C-Klasse, 205266))

Initializing the fuel quantity adjuster ((C-Klasse, 205219), (E-Klasse, 238420), (E-Klasse, 238423), (C-Klasse, 205319), (CLA-Klasse, 118615), (E-Klasse, 238320), (E-Klasse, 238323))



## Diagnostic devices

Resetting the warning message of diesel exhaust fluid level ((C-Klasse, 205319))

Initializing the neutral position sensor ((C-Klasse, 205219), (E-Klasse, 238420), (E-Klasse, 238423), (C-Klasse, 205319), (CLA-Klasse, 118615), (E-Klasse, 238320), (E-Klasse, 238323))

Checking the transmission fluid level ((C-Klasse, 205266))

### Codings

Registering the battery ((C-Klasse, 205266))

Coding injectors ((C-Klasse, 205219), (C-Klasse, 205319))

Coding the rain/light sensor ((C-Klasse, 205266))

Coding injectors ((E-Klasse, 238420), (E-Klasse, 238423), (CLA-Klasse, 118615), (E-Klasse, 238320), (E-Klasse, 238323))

### Service resets

#### DoIP/CAN

#### Capable for diagnostics only with mega macs X

(S-Klasse, 223030,223130), (SL-Klasse, 232), (S-Klasse, 223031,223131), (S-Klasse, 223033,223133), (S-Klasse, 223061,223161), (S-Klasse, 223063,223163), (S-Klasse, 223068,223168), (S-Klasse, 223076,223176), (S-Klasse, 223060,223160), (C-Klasse, 206041), (C-Klasse, 206042), (C-Klasse, 206043), (C-Klasse, 206003), (C-Klasse, 206016,206004), (C-Klasse, 206005), (C-Klasse, 206046), (C-Klasse, 206047), (C-Klasse, 206006), (C-Klasse, 206007), (C-Klasse, 206241), (C-Klasse, 206242), (C-Klasse, 206243), (C-Klasse, 206203), (C-Klasse, 206204,206216), (C-Klasse, 206205), (C-Klasse, 206246), (C-Klasse, 206247), (C-Klasse, 206206), (EQE, ), (EQS, 297123), (EQS, 297144), (C-Klasse, 206054), (C-Klasse, 206254)

#### Cyber Security Management (CSM)

#### Capable for diagnostics only with Cyber Security Management

### Mini

#### Trouble codes

(F56 One/Cooper, F56), (F57 Cabrio, F57), (F60 Countryman, F60)

#### Parameters

(F56 One/Cooper, F56), (F57 Cabrio, F57), (F60 Countryman, F60)

#### Actuators

(F56 One/Cooper, F56), (F57 Cabrio, F57), (F60 Countryman, F60)

#### Basic settings

Resetting fuel system adaptation values ((F57 Cabrio, F57))

Initializing the exhaust gas flap ((F57 Cabrio, F57))

Resetting the ECU ((F57 Cabrio, F57))

Bleeding the transfer case ((F57 Cabrio, F57))

Adapting the headlight motor ((F57 Cabrio, F57))

Learning the power windows ((F57 Cabrio, F57))

Adapting the electro-mechanical power steering ((F56 One/Cooper, F56))

Initializing the valve stroke adaptation ((F57 Cabrio, F57))

Resetting the pulse-generator ring adaptation ((F57 Cabrio, F57))



## Diagnostic devices

- Adapting the A/C compressor ((F57 Cabrio, F57))
- Calibrating the front camera ((F57 Cabrio, F57))
- Resetting the mixture adjustment ((F57 Cabrio, F57))
- Initializing the air distribution flaps ((F57 Cabrio, F57))
- Resetting the rain/light sensor ((F57 Cabrio, F57))
- Resetting learned values of throttle valve actuator ((F56 One/Cooper, F56), (F54 Clubman, F54), (F57 Cabrio, F57), (F54 Clubman, FMK))
- Filling/bleeding the SCR passive system ((F57 Cabrio, F57))
- Initializing the electronic stability control sensors ((F56 One/Cooper, F56), (F55 One/Cooper, F55), (F54 Clubman, F54), (F57 Cabrio, F57), (F60 Countryman, F60), (F54 Clubman, FMK))
- Resetting transfer case adaptation values ((F57 Cabrio, F57))
- Activating the assembly position of the exhaust gas flap actuator ((F57 Cabrio, F57))
- Resetting gearbox learning values ((F57 Cabrio, F57))
- Bleeding the ABS/ESC system ((F57 Cabrio, F57))
- Resetting the valve stroke adaptation initialization values ((F57 Cabrio, F57))
- Initialize acceleration sensor ((F57 Cabrio, F57))
- Initializing the ride height sensor ((F57 Cabrio, F57))
- Taking the steering into operation ((F54 Clubman, F54), (F57 Cabrio, F57), (F60 Countryman, F60), (F54 Clubman, FMK))
- Initializing the gear sensor ((F57 Cabrio, F57))
- Initializing the air distribution flap actuator ((F57 Cabrio, F57))
- De/activating the parking brake service mode ((F57 Cabrio, F57))
- Interchanged brake pipe check ((F57 Cabrio, F57))
- Initializing the sunroof actuator ((F57 Cabrio, F57))
- Adjusting the boost control rod ((F57 Cabrio, F57))
- Resetting starter learning values ((F57 Cabrio, F57))
- Unlocking aux. heater/independent car heater ((F57 Cabrio, F57))
- Calibrating the rearview camera/all-round vision camera ((F56 One/Cooper, F56), (F57 Cabrio, F57), (F60 Countryman, F60))
- Resetting learned values of the DEF injection system ((F57 Cabrio, F57))
- Initializing the neutral position sensor ((F57 Cabrio, F57))
- Resetting differential pressure sensor learning values ((F57 Cabrio, F57))
- Codings**
  - Registering the battery ((F57 Cabrio, F57))
  - Coding injectors ((F57 Cabrio, F57))
  - Coding the idle rpm ((F57 Cabrio, F57))
- Service resets**
  - (F57 Cabrio, F57), (F60 Countryman, F60)



## Diagnostic devices

- | DoIP/CAN
  - | Capable for diagnostics only with mega macs X
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- | Cyber Security Management (CSM)
- | Capable for diagnostics only with Cyber Security Management

### Nissan

- | Trouble codes (Leaf, ZE1)
  - | Parameters
  - | Actuators
  - | Basic settings
  - | Codings
  - | Service resets
- 

- | DoIP/CAN
  - | Capable for diagnostics only with mega macs X
- 

- | Cyber Security Management (CSM)
- | Capable for diagnostics only with Cyber Security Management

### Opel/Vauxhall

- | Trouble codes (Ampera-E, 1G0), (Astra-J, P10), (Cascada, W13), (Corsa-F, X20), (Insignia-A, G09), (Mokka-B, U), (Vivaro-C, EK0), (Zafira-Life, EK0)
  - | Parameters
  - | Actuators
  - | Basic settings
  - | Codings
-



## Diagnostic devices

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### Service resets

#### DoIP/CAN

Capable for diagnostics only with mega macs X

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#### Cyber Security Management (CSM)

Capable for diagnostics only with Cyber Security Management

### Peugeot

- | **Trouble codes** (107, P), (2008, U), (208, U), (308, ), (308, 4), (308, 4\*\*\*\*), (308, L), (508, 8), (508, F), (Boxer-III, Y (EU6)), (Expert-IV, V), (Rifter, E), (Traveller, V)
- | **Parameters** (107, P), (2008, U), (208, U), (308, ), (308, 4), (308, 4\*\*\*\*), (308, L), (508, 8), (508, F), (Boxer-III, Y (EU6)), (Rifter, E)
- | **Actuators** (2008, U), (208, U), (308, ), (308, 4), (308, 4\*\*\*\*), (308, L), (508, 8), (508, F), (Boxer-III, Y (EU6))
- | **Basic settings**
  - Regenerating the soot particulate filter ((Boxer-III, Y (EU6)))
  - Initializing the DeNOx system ((Boxer-III, Y (EU6)), (308, L), (2008, U))
  - Replacing/filling the regeneration additive container ((308, 4), (508, 8))
  - De-calibrating the longitudinal/lateral acceleration sensor ((Boxer-III, Y (EU6)))
  - Uninstalling/installing the rear brake linings ((508, 8))
  - Calibrating the night vision assist ((508, F))
  - Adapting the longitudinal acceleration sensor ((308, ))
  - Initializing the rain/light sensor ((308, L), (308, ), (508, 8), (2008, U), (508, F))
  - Removing/installing the gear selector lever ((508, F))
  - ECU of high-voltage safety shutdown ((508, F))
  - Initializing crankshaft/camshaft position ((308, 4\*\*\*\*), (308, 4))
  - Replacing the regeneration additive container ((308, L), (508, 8))
  - Init. of flow control valve ((508, 8), (308, 4))
  - Bleeding the ABS/ESC system ((2008, U), (508, F))
  - Calibrating the camera ECU ((308, L), (308, ), (2008, U), (508, F))
  - Bleeding the fuel system ((2008, U))
  - Activating the start/stop function ((308, L), (308, ), (5008, M), (2008, U), (508, F))
  - Regenerating the soot particulate filter during driving ((308, 4), (508, 8))
  - Resetting headlight leveling adaptation values ((2008, U))



## Diagnostic devices

- Replacing the drive motor or alternator ((508, 8))
- Adapting the turbocharger controller ((308, ), (2008, U))
- Cleaning/replacing the soot particulate filter ((5008, M), (508, F))
- Initializing the differential pressure sensor ((5008, M), (508, 8), (308, 4), (508, F))
- Adapting the longitudinal acceleration sensor ((308, L), (308, ), (2008, U), (508, F))
- Reconnecting the battery ((2008, U))
- Bleeding the fuel presupply system ((2008, U))
- Resetting the counter of fragrance cartridge block ((2008, U))
- Fill the DEF tank ((Boxer-III, Y (EU6)))
- Adapting the clutch assembly ((308, L), (5008, 0A), (208, U), (2008, U), (5008, M))
- Replace brake parts ((308, L), (308, ), (2008, U))
- Unlocking the airbag ECU ((308, 4\*\*\*\*), (308, 4), (308, L), (308, ), (508, 8), (2008, U), (508, F))
- Replacing engine parts ((Boxer-III, Y (EU6)), (3008, M), (308, L), (308, ), (508, F))
- Initializing the rotation rate/acceleration sensor ((308, 4\*\*\*\*), (308, 4), (508, 8))
- Initialising adaptive functions ((308, 4\*\*\*\*), (308, 4), (308, L))
- Initializing the A/C flap actuators ((308, L), (308, ), (508, 8), (2008, U), (508, F))
- Replacing brake parts of rear axle ((508, F))
- Initializing the longitudinal/lateral acceleration sensor ((Boxer-III, Y (EU6)))
- Calibrating the radar sensor ((308, L), (308, ))
- Adapting the radiator shutter ((5008, M), (508, F))
- Adjusting the headlights ((308, L), (308, ), (508, 8))
- Calibrating the cornering light ((508, F))
- Leaving the ECO mode ((308, L), (308, ), (508, 8), (2008, U), (508, F))
- Bleeding the cooling system ((2008, U), (508, F))
- Initializing the start/stop system ((308, L))
- Replacing the particle filter ((308, 4), (308, L), (508, 8))
- Initializing the EGR valve ((Boxer-III, Y (EU6)), (308, L), (308, 4), (508, 8), (2008, U))
- Regenerating the soot particulate filter at standstill ((308, 4), (308, L), (5008, M), (508, 8), (508, F))
- Learning the turbocharger ((308, L), (5008, M), (508, 8), (308, 4), (508, F))
- Initializing the transmission selector actuator ((508, F))
- Adapting the clutch biting point ((308, 4\*\*\*\*), (308, 4), (308, L), (308, ), (508, 8))
- Resetting the diesel exhaust fluid level ((Boxer-III, Y (EU6)), (308, L), (2008, U))
- Learning the throttle valve ((5008, M))
- Initializing the soot particulate filter ((308, ))
- Performing transmission adaptations ((308, 4\*\*\*\*), (308, 4), (308, L), (308, ), (508, 8))
- Replacing transmission components ((508, F))
- Learning the turbocharger ((308, L))



## Diagnostic devices

- Replace auxiliary drive belt ((308, ), (508, 8), (308, 4), (2008, U))
- Resetting gearbox learning values ((308, 4\*\*\*\*), (308, 4), (508, F))
- Initializing the power window anti-pinch protection ((308, 4\*\*\*\*), (308, 4), (308, L), (308, ), (508, 8))
- Initializing the air metering system ((Boxer-III, Y (EU6)), (308, L), (508, 8), (2008, U))
- Replace the parking brake Bowden cables. ((508, 8))
- Replace the battery. ((5008, M), (2008, U), (508, F))
- Cleaning the EGR cooler switchover valve ((2008, U))
- Configuring the lane change assist ((Boxer-III, Y (EU6)))
- Resetting learned values of steering angle sensor ((308, 4\*\*\*\*), (308, 4), (508, 8))
- Initializing the variable valve lift ((5008, M), (508, F))
- Headlight levelling ((308, 4\*\*\*\*), (308, 4), (508, 8))
- Learning the N position of gearbox ((508, F))
- Initializing the night vision camera ECU ((508, F))
- Bleeding the regeneration additive pump/line ((308, L))
- Filling the regeneration additive container ((308, L), (308, ), (508, 8))
- Locking the airbag ECU ((308, 4\*\*\*\*), (308, 4), (308, L), (308, ), (508, 8), (2008, U), (508, F))
- Learning the lambda sensor ((508, 8))
- Adapting crankshaft sensor ((5008, M), (508, F))
- Deactivating the torque limitation ((5008, M), (508, F))
- Emptying/filling the diesel exhaust fluid tank ((Boxer-III, Y (EU6)), (308, L), (308, ))
- Initializing the mass airflow sensor ((508, 8), (308, 4))
- Calibrating the steering-angle sensor ((308, 4\*\*\*\*), (308, 4), (308, L), (308, ), (508, 8))
- Learning the steering-angle sensor ((208, C), (4008, B), (301, DD), (107, P), (2008, CU), (Expert-IV, V), (Traveller, V), (3008, M), (5008, M), (Boxer-III, Y (EU6)), (2008, C), (5008, 0A), (208, U), (2008, U), (508, F))
- Resetting the clutch counter ((5008, M), (508, F))
- Regenerating the soot particulate filter ((308, L), (308, ), (2008, U))
- Reactivating the emergency brake assistant ((308, L), (308, ), (2008, U), (508, F))
- Cleaning EGR valve ((308, ), (2008, U))
- Teach-in clutch system ((308, L))
- Special bleeding ((308, 4\*\*\*\*), (308, 4), (308, L), (308, ), (508, 8))
- Initializing the alternator ((5008, M))
- Initializing the fuel level ((308, 4\*\*\*\*), (308, 4), (308, L), (308, ), (508, 8), (2008, U), (508, F))
- Adapting the EGR flap ((308, 4), (308, L))
- De-energizing the hybrid/electric vehicle ((508, 8))
- Calibrating the rearview camera/all-round vision camera ((508, F))
- Coding the trailer hitch ((Boxer-III, Y (EU6)))

### | Codings



## Diagnostic devices

Coding the keys ((Boxer-III, Y (EU6)), (308, 4\*\*\*\*), (308, 4), (308, L), (308, ), (508, 8), (2008, U), (508, F))

Registering the battery ((308, 4\*\*\*\*), (308, 4), (308, L), (308, ), (508, 8), (2008, U), (508, F))

Deactivating/activating the transport mode ((308, L), (308, ), (508, 8), (308, 4), (2008, U), (508, F))

Retrofit USB module/CD changer ((308, 4\*\*\*\*), (308, 4))

Coding the demanded tyre pressure ((Boxer-III, Y (EU5)), (Boxer-III, Y), (Boxer-III, Y (EU6)), (Boxer-III, 250 D))

Coding the cornering light ECU ((508, 8))

Coding ECUs ((Boxer-III, Y (EU6)))

Coding transmission readings ((308, 4\*\*\*\*), (308, 4), (308, L), (308, ), (508, 8))

Coding the remote control ((308, 4\*\*\*\*), (308, 4), (308, L), (308, ))

Coding the trailer hitch ((308, L), (308, ), (508, 8), (2008, U), (508, F))

Coding the wheel valves ((308, 4\*\*\*\*), (308, 4), (508, 8))

Coding the regeneration additive quantity ((508, 8), (308, 4))

Coding the ABS ECU ((308, 4\*\*\*\*), (308, 4))

Unlocking the airbag ECU ((508, F))

Coding the intrusion monitoring ((308, L), (308, ))

Coding the VIN ((308, 4\*\*\*\*), (308, 4))

Locking the airbag ECU ((508, F))

Coding injectors ((208, C), (308, 4), (Bipper, A), (Boxer-III, Y (EU6)), (308, L), (308, ), (508, 8))

Coding the body control module ((308, 4\*\*\*\*), (308, 4))

Coding the alarm sound ((308, L), (308, ), (508, F))

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| **Service resets** (2008, U), (308, ), (308, 4), (308, 4\*\*\*\*), (308, L), (508, 8), (508, F), (Boxer-III, Y (EU6))

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| **DoIP/CAN**

| **Capable for diagnostics only with mega macs X**

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| **Cyber Security Management (CSM)**

| **Capable for diagnostics only with Cyber Security Management**



## Diagnostic devices

### Porsche

- | **Trouble codes** (911 (991), 991), (911 (992), 992), (Boxster (981), 981), (Boxster 718 (982), 982), (Cayenne (9Yx), 9YA), (Cayman (981), 981), (Cayman 718 (982), 982), (Macan (95B), 95B), (Panamera (970), 970), (Panamera (971), 971), (Taycan (Y1A), Y1A))
- | **Parameters** (911 (991), 991), (911 (992), 992), (Boxster 718 (982), 982), (Cayenne (9Yx), 9YA), (Cayman 718 (982), 982), (Macan (95B), 95B), (Panamera (971), 971), (Taycan (Y1A), Y1A))
- | **Actuators** (911 (991), 991), (911 (992), 992), (Boxster 718 (982), 982), (Cayenne (9Yx), 9YA), (Cayman 718 (982), 982), (Macan (95B), 95B), (Panamera (971), 971), (Taycan (Y1A), Y1A))
- | **Basic settings**
  - Initializing electric seats ((Panamera (971), 971), (Cayenne (9Yx), 9YA), (911 (992), 992), (Taycan (Y1A), Y1A))
  - Performing the parking brake bedding-in drive ((Boxster 718 (982), 982), (Cayman 718 (982), 982), (911 (991), 991))
  - Initializing the drive position sensor ((Macan (95B), 95B))
  - Adapting the radiator shutter 2 ((911 (992), 992))
  - Resetting engine adaptation values ((Cayenne (9Yx), 9YA), (Macan (95B), 95B))
  - Bleeding the fuel system ((911 (991), 991), (911 (992), 992))
  - Adapting the clutch biting point ((Macan (95B), 95B))
  - Burning off aux. heater/independent car heater ((Panamera (971), 971), (Cayenne (9Yx), 9YA))
  - Initialising the boost pressure regulator ((Macan (95B), 95B))
  - Standardizing the liftgate ((Panamera (971), 971), (Cayenne (9Yx), 9YA), (Taycan (Y1A), Y1A))
  - Initialize actuator of coolant temperature control ((Macan (95B), 95B))
  - Adapting the soot particulate filter ((Macan (95B), 95B))
  - Learning the steering-angle sensor ((Panamera (971), 971), (Cayenne (9Yx), 9YA), (911 (992), 992), (Taycan (Y1A), Y1A))
  - Learning the throttle valve ((911 (991), 991), (911 (992), 992), (Macan (95B), 95B))
  - Performing engine adaptations ((Panamera (971), 971), (Cayenne (9Yx), 9YA), (Macan (95B), 95B))
  - Adjust clearance of parking brake ((Boxster 718 (982), 982), (Cayman 718 (982), 982), (911 (991), 991))
  - Initializing the adaptive cruise control ((Panamera (971), 971), (Cayenne (9Yx), 9YA), (911 (992), 992))
  - Initializing the adaptive cruise control sensor ((Macan (95B), 95B), (Boxster 718 (982), 982), (Cayman 718 (982), 982), (911 (991), 991), (Taycan (Y1A), Y1A))
  - Retracting parking brake ((Macan (95B), 95B))
  - Reducing fuel high pressure ((Panamera (971), 971), (Cayenne (9Yx), 9YA), (Macan (95B), 95B))
  - Calibrating the front camera ((Boxster 718 (982), 982), (Cayman 718 (982), 982), (911 (991), 991))
  - Resetting timing chain adaptation values ((Macan (95B), 95B))
  - Resetting self-adaptation parameters ((Panamera (971), 971), (Macan (95B), 95B))



## Diagnostic devices

Adapting the radiator shutter ((Macan (95B), 95B))

Parking brake maintenance work ((Panamera (971), 971), (Cayenne (9Yx), 9YA), (911 (992), 992), (Taycan (Y1A), Y1A))

Adapting the radiator shutter 1 ((911 (992), 992))

Adapting oil pressure for engine run-in ((Panamera (971), 971), (Cayenne (9Yx), 9YA), (Macan (95B), 95B))

Bleeding the cooling system ((911 (991), 991))

Initializing the sunroof actuator ((Panamera (971), 971), (Cayenne (9Yx), 9YA), (911 (992), 992))

Calibrating the camera ECU ((Panamera (971), 971), (Cayenne (9Yx), 9YA), (Macan (95B), 95B), (911 (992), 992), (Taycan (Y1A), Y1A))

Adapting the fuel burning heater remote control ((Panamera (971), 971), (Cayenne (9Yx), 9YA))

Actuating the installation/removal position of the parking brake ((Boxster 718 (982), 982), (Cayman 718 (982), 982), (911 (991), 991))

Extending parking brake ((Macan (95B), 95B))

Unlocking aux. heater/independent car heater ((Panamera (971), 971), (Cayenne (9Yx), 9YA))

Calibrating the parking brake ((Boxster 718 (982), 982), (Cayman 718 (982), 982), (911 (991), 991))

### | Codings

Coding the trailer detection ((Panamera (971), 971), (Cayenne (9Yx), 9YA), (Macan (95B), 95B))

Registering the battery ((Panamera (971), 971), (Cayenne (9Yx), 9YA), (Macan (95B), 95B), (Boxster 718 (982), 982), (Cayman 718 (982), 982), (911 (991), 991), (911 (992), 992))

Coding the rain/light sensor ((Panamera (971), 971), (Cayenne (9Yx), 9YA), (911 (992), 992), (Taycan (Y1A), Y1A))

Coding the parking brake ECU ((Boxster 718 (982), 982), (Cayman 718 (982), 982), (911 (991), 991))

Deactivating/activating the transport mode ((Panamera (971), 971), (Cayenne (9Yx), 9YA), (911 (992), 992))

### | Service resets

(911 (991), 991), (911 (992), 992), (Boxster 718 (982), 982), (Cayenne (9Yx), 9YA), (Cayman 718 (982), 982), (Macan (95B), 95B), (Panamera (971), 971), (Taycan (Y1A), Y1A))

### | DoIP/CAN

| Capable for diagnostics only with mega macs X

### | Cyber Security Management (CSM)

| Capable for diagnostics only with Cyber Security Management



## Diagnostic devices

### Renault

- | **Trouble codes** (Arkana, RJL), (Clio-III, CR1H,CR2S,CRAS,CRCH), (Master-III, MA), (Twingo-III, BCA1), (Zoe, BFMC,BFMD)
- | **Parameters** (Arkana, RJL), (Clio-III, CR1H,CR2S,CRAS,CRCH), (Master-III, MA)
- | **Actuators** (Arkana, RJL), (Clio-III, CR1H,CR2S,CRAS,CRCH), (Master-III, MA)
- | **Basic settings**
  - Adapting the camshaft ((Twingo-III, BCMD), (Twingo-III, BCME), (Twingo-III, BCM4), (Twingo-III, BCMJ))
  - Calibrating the steering-angle sensor ((Master-III, FV0N,FV08), (Master-III, JV03), (Master-III, ML))
  - Resetting the start inhibitor of DEF injection system ((Master-III, MA), (Master-III, FV0N,FV08), (Master-III, JV03), (Master-III, ML))
  - Resetting the diesel exhaust fluid level ((Master-III, MA), (Master-III, FV0N,FV08), (Master-III, JV03), (Master-III, ML))
  - Learning the lambda sensor ((Twingo-III, BCMD), (Twingo-III, BCME), (Twingo-III, BCM4), (Twingo-III, BCMJ), (Master-III, MA), (Master-III, FV0N,FV08), (Master-III, JV03), (Master-III, ML))
  - De/activating the parking brake service mode ((Arkana, RJL))
  - Adapting the diesel exhaust fluid tank ((Master-III, MA), (Master-III, FV0N,FV08), (Master-III, JV03), (Master-III, ML))
  - Initializing the fuel pressure sensor or the fuel rail ((Master-III, MA), (Master-III, FV0N,FV08), (Master-III, JV03), (Master-III, ML))
  - Initializing the differential pressure sensor ((Clio-III, CR1H,CR2S,CRAS,CRCH), (Clio-III, BR1H,BR2S,BRAS,BRCH), (Master-III, MA), (Master-III, FV0N,FV08), (Master-III, JV03), (Master-III, ML))
  - Resetting catalyst adaptation values ((Master-III, MA), (Master-III, FV0N,FV08), (Master-III, JV03), (Master-III, ML))
  - Initializing the starter ring gear ((Twingo-III, BCMD), (Twingo-III, BCME), (Twingo-III, BCM4), (Twingo-III, BCMJ))
  - Learning throttle valve stop ((Twingo-III, BCMD), (Twingo-III, BCME), (Twingo-III, BCM4), (Twingo-III, BCMJ))
  - Resetting the mixture adjustment ((Twingo-III, BCMD), (Twingo-III, BCME), (Twingo-III, BCM4), (Twingo-III, BCMJ))
  - Initializing the mass airflow sensor ((Master-III, MA), (Master-III, FV0N,FV08), (Master-III, JV03), (Master-III, ML))
  - Learning the turbocharger ((Twingo-III, BCMD), (Twingo-III, BCME))
  - Adapting the turbine wheel shut-off valve ((Twingo-III, BCMD), (Twingo-III, BCME))
  - Learning the steering-angle sensor ((Zoe, BFMA), (Zoe, BFMF), (Zoe, FFMA), (Zoe, FFMB), (Arkana, RJL))
  - Calibrating the camera ECU ((Master-III, FV0N,FV08), (Master-III, JV03), (Master-III, ML), (Arkana, RJL))
  - Resetting learned values of NOx adsorption catalyst ((Master-III, MA), (Master-III, FV0N,FV08), (Master-III, JV03), (Master-III, ML))



## Diagnostic devices

Calibrating rear radar sensors ((Arkana, RJL))

Regenerating the soot particulate filter ((Megane-IV, B9A1), (Megane-IV, B9A3), (Megane-IV, B9A4), (Megane-IV, K9A1), (Megane-IV, K9A3), (Megane-IV, K9A4), (Megane-IV, B9A5), (Megane-IV, K9A5), (Master-III, MA), (Master-III, FV0N,FV08), (Master-III, JV03), (Master-III, ML))

Resetting learned values of camshaft sensor ((Twingo-III, BCMD), (Twingo-III, BCME), (Twingo-III, BCM4), (Twingo-III, BCMJ))

Resetting adaptation values for pressure regulation of all injectors ((Clio-III, CR1H,CR2S,CRAS,CRCH), (Clio-III, BR1H,BR2S,BRAS,BRCH))

Initializing the ride height sensor ((Clio-III, CR1H,CR2S,CRAS,CRCH), (Clio-III, BR1H,BR2S,BRAS,BRCH))

Initializing the fuel pump ((Master-III, MA), (Master-III, FV0N,FV08), (Master-III, JV03), (Master-III, ML))

Calibrate radar dynamically ((Arkana, RJL))

Initializing the intake-air flap ((Clio-III, CR1H,CR2S,CRAS,CRCH), (Clio-III, BR1H,BR2S,BRAS,BRCH), (Master-III, MA), (Master-III, FV0N,FV08), (Master-III, JV03), (Master-III, ML))

Initializing the ride height sensor ((Scenic-IV, J9AE), (Scenic-IV, J9MB,J9MB,R9MB))

Regenerating the soot particulate filter ((Clio-III, CR1H,CR2S,CRAS,CRCH), (Clio-III, BR1H,BR2S,BRAS,BRCH))

Resetting learned values of fuel injector of soot particulate filter ((Clio-III, CR1H,CR2S,CRAS,CRCH), (Clio-III, BR1H,BR2S,BRAS,BRCH))

After particulate filter regeneration ((Clio-III, CR1H,CR2S,CRAS,CRCH), (Clio-III, BR1H,BR2S,BRAS,BRCH))

Calibrating the steering-angle sensor ((Clio-III, CR1H,CR2S,CRAS,CRCH), (Clio-III, BR1H,BR2S,BRAS,BRCH))

Resetting high-pressure fuel pump adaptation values ((Master-III, MA), (Master-III, FV0N,FV08), (Master-III, JV03), (Master-III, ML))

Initializing the diesel exhaust fluid pump module ((Master-III, MA), (Master-III, FV0N,FV08), (Master-III, JV03), (Master-III, ML))

De/activating the parking brake service mode ((Megane-IV, B9A1), (Kadjar, HLA4), (Kadjar, HLMR), (Kadjar, HLA3), (Espace-V, JRA5), (Espace-V, JRA4), (Espace-V, JRME), (Megane-IV, B9MS), (Megane-IV, B9MR), (Megane-IV, B9A3), (Megane-IV, B9A4), (Talisman, L2A3,LPA3), (Talisman, L2A5,LPA5), (Talisman, L2A4,LPA4), (Talisman, L2MJ,LPMJ), (Talisman, L2MV,LPMV), (Talisman, K2A3,KPA3), (Talisman, K2A5, KPA5), (Talisman, K2A4, KPA4), (Talisman, K2MJ), (Talisman, K2MV, KPMV), (Megane-IV, K9MS), (Megane-IV, K9MR), (Megane-IV, K9A1), (Megane-IV, K9A3), (Megane-IV, K9A4), (Megane-IV, K9M0), (Megane-IV, K9MV), (Megane-IV, B9MV), (Megane-IV, B9M0), (Scenic-IV, J9MR,R9MR), (Scenic-IV, J9A4), (Scenic-IV, J9A5), (Scenic-IV, J9A3), (Scenic-IV, J9A2), (Scenic-IV, J9MB,J9MB,R9MB), (Scenic-IV, JZ), (Espace-V, JRM1), (Espace-V, JRAL), (Espace-V, JRAM), (Kadjar, HLNb), (Kadjar, HLNC), (Kadjar, HLA6), (Megane-IV, B9N8), (Megane-IV, B9N9), (Megane-IV, B9NB), (Megane-IV, K9N8), (Megane-IV, K9N9), (Megane-IV, K9NC), (Megane-IV, K9NB), (Megane-IV, K9A2), (Megane-IV, K9A6), (Megane-IV, K9MF), (Megane-IV, B9NC), (Megane-IV, B9A2), (Megane-IV, B9A6), (Megane-IV, B9MF), (Megane-IV, B9M6), (Scenic-IV, J9A9,J9N9), (Talisman, LPA7), (Talisman, LPA8), (Talisman, LPM1), (Talisman, KPA7), (Talisman, KPM1), (Scenic-IV, J9NB,R9NB), (Scenic-IV, J9NC), (Scenic-IV, J9A7,R9A7), (Scenic-IV, J9A8,R9A8), (Megane-IV, B9), (Talisman, LPAL), (Talisman, LPAM), (Talisman,



## Diagnostic devices

LPNC), (Kadjar, HLA7), (Talisman, KPAM), (Talisman, KPAL), (Megane-IV, B9M8), (Megane-IV, B9A7), (Talisman, ), (Talisman, None), (Zoe, BFMC,BFMD), (Megane-IV, K9A7), (Megane-IV, ))

Initializing the soot particulate filter upon replacement ((Clio-III, CR1H,CR2S,CRAS,CRCH), (Clio-III, BR1H,BR2S,BRAS,BRCH), (Master-III, MA), (Master-III, FV0N,FV08), (Master-III, JV03), (Master-III, ML))

Resetting the injection pump learning values ((Clio-III, CR1H,CR2S,CRAS,CRCH), (Clio-III, BR1H,BR2S,BRAS,BRCH))

Initializing the EGR valve ((Clio-III, CR1H,CR2S,CRAS,CRCH), (Clio-III, BR1H,BR2S,BRAS,BRCH), (Master-III, MA), (Master-III, FV0N,FV08), (Master-III, JV03), (Master-III, ML))

Bleeding the ABS hydraulic unit ((Clio-III, CR1H,CR2S,CRAS,CRCH), (Clio-III, BR1H,BR2S,BRAS,BRCH), (Master-III, FV0N,FV08), (Master-III, JV03), (Master-III, ML), (Arkana, RJL))

Initializing the diesel exhaust fluid injector ((Master-III, MA), (Master-III, FV0N,FV08), (Master-III, JV03), (Master-III, ML))

Resetting starter learning values ((Twingo-III, BCMD), (Twingo-III, BCME), (Twingo-III, BCM4), (Twingo-III, BCMJ))

### | Codings

Coding the language version ((Clio-III, CR1H,CR2S,CRAS,CRCH), (Clio-III, BR1H,BR2S,BRAS,BRCH), (Master-III, FV0N,FV08), (Master-III, JV03), (Master-III, ML), (Arkana, RJL))

Coding instrument cluster units ((Arkana, RJL))

Coding the power steering ECU ((Clio-III, CR1H,CR2S,CRAS,CRCH), (Clio-III, BR1H,BR2S,BRAS,BRCH))

Coding injectors ((Clio-III, CR1H,CR2S,CRAS,CRCH), (Clio-III, BR1H,BR2S,BRAS,BRCH))

Coding the tire size ((Master-III, MA), (Master-III, FV0N,FV08), (Master-III, JV03), (Master-III, ML), (Arkana, RJL))

Deactivating the transport mode ((Clio-III, CR1H,CR2S,CRAS,CRCH), (Clio-III, BR1H,BR2S,BRAS,BRCH))

Airbag ECU locking/unlocking ((Clio-V, B7MT), (Clio-V, B7MF), (Clio-V, B7AD), (Captur-II, RJB), (Clio-V, RJA), (Zoe, BFMC,BFMD), (Master-III, FV0N,FV08), (Master-III, JV03), (Master-III, ML), (Arkana, RJL))

Adjust parking assistance volume ((Clio-III, CR1H,CR2S,CRAS,CRCH), (Clio-III, BR1H,BR2S,BRAS,BRCH))

Adjusting the parking assist tone ((Clio-III, CR1H,CR2S,CRAS,CRCH), (Clio-III, BR1H,BR2S,BRAS,BRCH))

Adapting the trailer hitch to advanced driver assistance systems ((Master-III, FV0N,FV08), (Master-III, JV03), (Master-III, ML), (Arkana, RJL))

Unlocking the airbag ECU ((Clio-III, CR1H,CR2S,CRAS,CRCH), (Clio-III, BR1H,BR2S,BRAS,BRCH))

De-/coding the belt warning tone ((Clio-III, CR1H,CR2S,CRAS,CRCH), (Clio-III, BR1H,BR2S,BRAS,BRCH))

Coding the cornering light ECU ((Clio-III, CR1H,CR2S,CRAS,CRCH), (Clio-III, BR1H,BR2S,BRAS,BRCH))

Coding injectors ((Master-III, MA), (Master-III, FV0N,FV08), (Master-III, JV03), (Master-III, ML))



## Diagnostic devices

De-/activating daytime running lights ((Clio-III, CR1H,CR2S,CRAS,CRCH), (Clio-III, BR1H,BR2S,BRAS,BRCH))

Locking the airbag ECU ((Clio-III, CR1H,CR2S,CRAS,CRCH), (Clio-III, BR1H,BR2S,BRAS,BRCH))

| **Service resets** (Clio-III, CR1H,CR2S,CRAS,CRCH)

| **DoIP/CAN**

| **Capable for diagnostics only with mega macs X**

| **Cyber Security Management (CSM)**

| **Capable for diagnostics only with Cyber Security Management**

### Seat

| **Trouble codes** (Alhambra, 71), (Arona, KJ), (Ibiza, KJ), (Leon, 5F), (Leon, KL), (Tarraco, KN)

| **Parameters** (Alhambra, 71), (Arona, KJ), (Ibiza, KJ), (Leon, 5F), (Leon, KL), (Tarraco, KN)

| **Actuators** (Alhambra, 71), (Arona, KJ), (Ibiza, KJ), (Leon, 5F), (Leon, KL), (Tarraco, KN)

| **Basic settings** Initializing electric seats ((Leon, KL), (Tarraco, KN))  
 Initializing the adaptive cruise control ((Ibiza, KJ), (Leon, 5F), (Tarraco, KN))  
 Initializing the lateral acceleration sensor ((Ibiza, 6J))  
 Filling fuel lines of parking heater/auxiliary heater ((Leon, KL), (Leon, 5F), (Tarraco, KN))  
 Activating/deactivating the sliding door service mode ((Alhambra, 71))  
 Regenerating the soot particulate filter ((Leon, KL), (Ibiza, KJ), (Leon, 5F), (Tarraco, KN))  
 Resetting engine adaptation values ((Ibiza, KJ), (Leon, KL), (Tarraco, KN))  
 Initializing the ESC sensors ((Ibiza, 6J), (Leon, KL), (Ibiza, KJ), (Leon, 5F), (Tarraco, KN))  
 Reset learned values of injectors. ((Leon, KL), (Ibiza, KJ), (Leon, 5F))  
 Adapting the electronic damper control ((Leon, KL), (Leon, 5F), (Tarraco, KN))  
 Bleeding the fuel system ((Leon, KL), (Ibiza, KJ), (Leon, 5F))  
 Burning off aux. heater/independent car heater ((Leon, KL), (Leon, 5F), (Tarraco, KN))  
 Regenerating the soot particulate filter ((Leon, KL))  
 Changing and checking DCT fluid ((Leon, KL))  
 Initialising the boost pressure regulator ((Leon, 5F), (Ateca, KH), (Tarraco, KN), (Leon, KL), (Ibiza, KJ))  
 Initializing the seat belt tensioner ECU ((Ibiza, KJ), (Leon, 5F), (Tarraco, KN))  
 Performing engine adaptations ((Leon, KL))



## Diagnostic devices

- Standardizing the liftgate ((Alhambra, 71), (Leon, KL), (Tarraco, KN))
- Adjust headlight with/without dynamic light control (DLA) ((Leon, 5F), (Tarraco, KN))
- Adapting the soot particulate filter ((Leon, KL), (Ibiza, KJ), (Leon, 5F), (Tarraco, KN))
- Learning the steering-angle sensor ((Alhambra, 71), (Leon, KL), (Ibiza, KJ))
- Learning the throttle valve ((Alhambra, 71), (Ibiza, KJ), (Leon, KL), (Leon, 5F), (Tarraco, KN))
- Initialize actuator of coolant temperature control ((Tarraco, KN))
- Learning the steering-angle sensor ((Leon, 5F), (Tarraco, KN))
- Initializing the tilt/slide sunroof ((Alhambra, 71), (Leon, KL), (Ibiza, KJ), (Leon, 5F), (Tarraco, KN))
- Initializing the brake-pressure sensor ((Ibiza, 6J), (Leon, 1P), (Leon, KL), (Leon, 5F), (Tarraco, KN))
- Adapting the aux. heater ((Alhambra, 71))
- Resetting the warning message of DEF injection system ((Alhambra, 71), (Leon, 5F), (Ateca, KH), (Tarraco, KN))
- Unlocking aux. heater/independent car heater ((Leon, 5F))
- Retracting parking brake ((Leon, KL), (Leon, 5F), (Tarraco, KN))
- Performing the initial run-in of the air conditioning compressor ((Leon, KL), (Ibiza, KJ), (Leon, 5F), (Tarraco, KN))
- Resetting the start inhibitor of DEF injection system ((Leon, KL))
- Initializing the adaptive cruise control ((Leon, KL))
- Special bleeding ((Alhambra, 7V), (Ibiza, 6J), (Leon, 5F), (Ibiza, 6L), (Ibiza, 6L1), (Ibiza, 6P), (Ateca, KH), (Ibiza, KJ), (Arona, KJ), (Tarraco, KN), (Leon, KL))
- Initializing the clutch pedal position ((Leon, 5F), (Tarraco, KN))
- Reducing fuel high pressure ((Leon, KL), (Ibiza, KJ), (Leon, 5F), (Tarraco, KN))
- Initializing the A/C flap actuators ((Leon, KL), (Ibiza, KJ), (Leon, 5F), (Tarraco, KN))
- Initializing the alternator ((Ibiza, KJ), (Leon, 5F), (Tarraco, KN))
- Performing transmission adaptations ((Leon, KL), (Ibiza, KJ), (Leon, 5F), (Tarraco, KN))
- Initializing the oxidation catalyst ((Leon, KL))
- Initialize 4WD clutch oil pump ((Alhambra, 71), (Leon, 5F), (Tarraco, KN))
- Resetting timing chain adaptation values ((Leon, KL), (Tarraco, KN))
- Resetting the impact mode ((Leon, KL), (Ibiza, KJ), (Leon, 5F))
- Initializing the neutral position sensor ((Ibiza, KJ), (Leon, 5F), (Leon, KL), (Tarraco, KN))
- Resetting the diesel exhaust fluid level ((Leon, KL))
- Adapting the radiator shutter ((Leon, 5F))
- Calibrating the parking brake ((Leon, KL))
- Adjusting the headlights ((Leon, KL), (Ibiza, KJ))
- Adapting oil pressure for engine run-in ((Tarraco, KN))
- Bleeding the cooling system ((Tarraco, KN), (Leon, KL), (Ibiza, KJ), (Leon, 5F))
- Activating the retrofitted parking heater ((Leon, KL), (Leon, 5F), (Tarraco, KN))



## Diagnostic devices

Calibrating the camera ECU ((Ateca, KH), (Ibiza, KJ), (Arona, KJ), (Tarraco, KN), (Leon, KL), (Leon, 5F))

Adapting the fuel burning heater remote control ((Leon, KL), (Leon, 5F), (Tarraco, KN))

Extending parking brake ((Leon, KL), (Leon, 5F), (Tarraco, KN))

Unlocking aux. heater/independent car heater ((Leon, KL), (Tarraco, KN))

Activating the roller test stand mode ((Leon, KL))

Changing the drive type ((Tarraco, KN))

Calibrating the parking brake ((Alhambra, 71), (Leon, 5F), (Tarraco, KN))

### | Codings

Adjust parking assistance volume ((Leon, KL), (Ibiza, KJ), (Leon, 5F), (Tarraco, KN))

General ECU replacement ((Ibiza, KJ), (Leon, 5F), (Tarraco, KN))

Coding the language version ((Ibiza, KJ), (Leon, 5F), (Tarraco, KN))

Coding the radio remote control ((Mii, KF), (Mii, KE))

Expert mode ECU coding ((Ibiza, KJ), (Leon, 5F), (Tarraco, KN))

Coding the rain/light sensor ((Leon, KL), (Ibiza, KJ), (Leon, 5F), (Tarraco, KN))

Registering the battery ((Leon, KL), (Ibiza, KJ), (Leon, 5F), (Tarraco, KN))

Deactivating/activating the transport mode ((Leon, KL), (Ibiza, KJ), (Leon, 5F), (Tarraco, KN))

Coding the trailer detection ((Leon, KL), (Ibiza, KJ), (Leon, 5F), (Tarraco, KN))

Coding the steering-column module ((Ibiza, KJ), (Leon, 5F))

Replacing the headlight/power module ((Leon, 5F))

De-/activating the cruise control ((Ibiza, KJ), (Leon, 5F))

Adapting the trailer hitch to advanced driver assistance systems ((Ibiza, KJ), (Leon, 5F), (Tarraco, KN))

Coding injectors ((Leon, KL))

Adapting the power steering after replacement ((Alhambra, 71))

De-/activating the trailer hitch ((Leon, KL), (Ibiza, KJ), (Leon, 5F), (Tarraco, KN))

Coding the body control module ((Ibiza, 6J), (Toledo, KG))

Coding the gateway installation list ((Ibiza, KJ), (Leon, 5F), (Tarraco, KN))

Coding the fuel burning heater ((Alhambra, 71))

### | Service resets

(Ibiza, KJ), (Leon, 5F), (Leon, KL), (Tarraco, KN)

### | DoIP/CAN

### | Capable for diagnostics only with mega macs X

### | Cyber Security Management (CSM)

(Leon, KL)

### | Capable for diagnostics only with Cyber Security Management



## Diagnostic devices

### Skoda

<b>Trouble codes</b>	(Enyaq, 5A), (Karoq, NU), (Octavia, 5E), (Octavia, NX), (Superb, 3V)
<b>Parameters</b>	(Enyaq, 5A), (Karoq, NU), (Octavia, 5E), (Octavia, NX), (Superb, 3V)
<b>Actuators</b>	(Karoq, NU), (Octavia, 5E), (Octavia, NX), (Superb, 3V)
<b>Basic settings</b>	<p>Initializing electric seats ((Octavia, NX), (Octavia, 5E), (Karoq, NU), (Superb, 3V))</p> <p>Initializing the adaptive cruise control ((Octavia, 5E), (Karoq, NU), (Superb, 3V))</p> <p>Initializing the lateral acceleration sensor ((Fabia, 54), (Roomster, 5J))</p> <p>Filling fuel lines of parking heater/auxiliary heater ((Octavia, NX), (Octavia, 5E), (Karoq, NU), (Superb, 3V))</p> <p>Resetting the start inhibitor of DEF injection system ((Octavia, NX), (Superb, 3V))</p> <p>Regenerating the soot particulate filter ((Octavia, NX), (Karoq, NU), (Superb, 3V))</p> <p>Resetting engine adaptation values ((Octavia, 5E), (Fabia, PJ), (Octavia, NX), (Superb, 3V))</p> <p>Initializing the ESC sensors ((Roomster, 5J), (Octavia, NX), (Fabia, 54), (Octavia, 5E), (Karoq, NU), (Superb, 3V))</p> <p>Reset learned values of injectors. ((Karoq, NU))</p> <p>Adapting the electronic damper control ((Octavia, NX), (Octavia, 5E), (Karoq, NU), (Superb, 3V))</p> <p>Bleeding the fuel system ((Superb, 3V), (Octavia, NX), (Karoq, NU))</p> <p>Burning off aux. heater/independent car heater ((Octavia, NX), (Octavia, 5E), (Karoq, NU), (Superb, 3V))</p> <p>Changing and checking DCT fluid ((Octavia, NX))</p> <p>Performing transmission adaptations ((Octavia, NX), (Octavia, 5E), (Karoq, NU), (Superb, 3V))</p> <p>Initializing the seat belt tensioner ECU ((Octavia, 5E), (Karoq, NU), (Superb, 3V))</p> <p>Initializing the tilt/slide sunroof ((Octavia, NX), (Octavia, 5E), (Karoq, NU), (Superb, 3V))</p> <p>Standardizing the liftgate ((Octavia, NX), (Octavia, 5E), (Karoq, NU), (Superb, 3V))</p> <p>Adapting the soot particulate filter ((Octavia, NX), (Karoq, NU), (Superb, 3V))</p> <p>Learning the steering-angle sensor ((Octavia, NX))</p> <p>Learning the throttle valve ((Superb, 3V), (Octavia, NX), (Octavia, 5E), (Karoq, NU), (Fabia, PJ))</p> <p>Learning the steering-angle sensor ((Octavia, 5E), (Karoq, NU), (Superb, 3V))</p> <p>Performing engine adaptations ((Octavia, NX), (Superb, 3V))</p> <p>Initializing the brake-pressure sensor ((Fabia, 54), (Roomster, 5J), (Octavia, NX), (Octavia, 5E), (Karoq, NU), (Superb, 3V))</p> <p>Initialising the boost pressure regulator ((Karoq, NU))</p> <p>Resetting the warning message of DEF injection system ((Octavia, 5E), (Superb, 3V), (Kodiaq, NS), (Karoq, NU))</p> <p>Resetting learned values of DEF injection system ((Superb, 3V))</p> <p>Retracting parking brake ((Octavia, NX), (Octavia, 5E), (Karoq, NU), (Superb, 3V))</p>



## Diagnostic devices

Performing the initial run-in of the air conditioning compressor ((Octavia, NX), (Octavia, 5E), (Karoq, NU), (Superb, 3V))

Initializing the adaptive cruise control ((Octavia, NX))

Special bleeding ((Fabia, 6Y), (Kodiaq, NS), (Fabia, 54), (Roomster, 5J), (Octavia, 5E), (Fabia, NJ), (Superb, 3V), (Karoq, NU), (Scala, NW), (Karniq, NW), (Octavia, NX), (Fabia, PJ))

Initializing the clutch pedal position ((Octavia, 5E), (Karoq, NU), (Superb, 3V))

Reducing fuel high pressure ((Karoq, NU), (Octavia, NX))

Initializing the A/C flap actuators ((Octavia, NX), (Octavia, 5E), (Karoq, NU), (Superb, 3V))

Initializing the alternator ((Octavia, 5E), (Karoq, NU), (Superb, 3V))

Activating the retrofitted parking heater ((Octavia, NX), (Octavia, 5E), (Karoq, NU), (Superb, 3V))

Initializing the oxidation catalyst ((Octavia, NX), (Superb, 3V))

Initialize 4WD clutch oil pump ((Octavia, 5E), (Karoq, NU), (Superb, 3V))

Resetting timing chain adaptation values ((Octavia, NX))

Resetting the impact mode ((Octavia, 5E), (Karoq, NU), (Octavia, NX), (Superb, 3V))

Initializing the neutral position sensor ((Octavia, 5E), (Fabia, PJ), (Octavia, NX), (Superb, 3V))

Resetting the diesel exhaust fluid level ((Octavia, NX), (Superb, 3V))

Adapting the radiator shutter ((Enyaq, 5A))

Calibrating the parking brake ((Octavia, NX))

Adjusting the headlights ((Kodiaq, NS), (Octavia, NX), (Octavia, 5E), (Karoq, NU), (Superb, 3V))

Adapting oil pressure for engine run-in ((Superb, 3V))

Bleeding the cooling system ((Superb, 3V), (Enyaq, 5A), (Octavia, NX), (Karoq, NU))

Calibrating the camera ECU ((Octavia, NX), (Octavia, 5E), (Karoq, NU), (Superb, 3V))

Adapting the fuel burning heater remote control ((Octavia, NX), (Octavia, 5E), (Karoq, NU), (Superb, 3V))

Extending parking brake ((Octavia, NX), (Octavia, 5E), (Karoq, NU), (Superb, 3V))

Adapting the DEF injection system ((Superb, 3V))

Unlocking aux. heater/independent car heater ((Octavia, NX), (Octavia, 5E), (Karoq, NU), (Superb, 3V))

Calibrating the parking brake ((Octavia, 5E), (Karoq, NU), (Superb, 3V))

Changing the drive type ((Superb, 3V), (Octavia, NX))

Activating the roller test stand mode ((Octavia, NX))

### | Codings

Adjust parking assistance volume ((Octavia, NX), (Octavia, 5E), (Karoq, NU), (Superb, 3V))

General ECU replacement ((Octavia, 5E), (Karoq, NU), (Superb, 3V))

Coding the language version ((Octavia, 5E), (Karoq, NU), (Superb, 3V))

Coding the radio remote control ((Citigo, NF), (Octavia, 5E), (Citigo, NE))

Expert mode ECU coding ((Octavia, 5E), (Karoq, NU), (Superb, 3V))

Coding the rain/light sensor ((Octavia, NX), (Octavia, 5E), (Karoq, NU), (Superb, 3V))



## Diagnostic devices

- Registering the battery ((Octavia, NX), (Octavia, 5E), (Karoq, NU), (Superb, 3V))
- Deactivating/activating the transport mode ((Octavia, NX), (Octavia, 5E), (Karoq, NU), (Superb, 3V))
- Coding the trailer detection ((Octavia, NX), (Octavia, 5E), (Karoq, NU), (Superb, 3V))
- Coding the steering-column module ((Octavia, 5E), (Karoq, NU), (Superb, 3V))
- Replacing the headlight/power module ((Octavia, 5E))
- De-/activating the cruise control ((Octavia, 5E))
- Adapting the trailer hitch to advanced driver assistance systems ((Octavia, 5E), (Karoq, NU), (Superb, 3V))
- Coding injectors ((Octavia, NX), (Superb, 3V))
- De/activating the trailer hitch ((Octavia, NX), (Octavia, 5E), (Karoq, NU), (Superb, 3V))
- Coding the body control module ((Fabia, 54), (Roomster, 5J), (Rapid, NH))
- Coding the gateway installation list ((Octavia, 5E), (Karoq, NU), (Superb, 3V))
- Service resets** (Karoq, NU), (Octavia, 5E), (Octavia, NX), (Superb, 3V)

- DoIP/CAN**
- Capable for diagnostics only with mega macs X**

- Cyber Security Management (CSM)** (Enyaq, 5A), (Octavia, NX)
- Capable for diagnostics only with Cyber Security Management**



HGS Software-News



Diagnostic devices



HGS Software-News



Diagnostic devices

**Smart/MCC**



## Diagnostic devices

### Subaru

- | **Trouble codes** (Forester, SJ), (Impreza, G3), (Legacy/Outback, BS), (XV, G5)
- | **Parameters** (Forester, SJ), (Impreza, G3), (Legacy/Outback, BS), (XV, G5)
- | **Actuators** (Forester, SJ), (Impreza, G5), (Legacy/Outback, BS), (XV, G5)
- | **Basic settings**
  - Initializing the rain/light sensor ((XV, G5), (Impreza, G5), (Legacy/Outback, BS))
  - Initializing the air distribution flaps ((Forester, SJ), (XV, G5))
  - Learning the steering-angle sensor ((Forester, SJ), (Legacy/Outback, BS))
  - De/activating the parking brake service mode ((XV, G5), (Impreza, G5), (Legacy/Outback, BS))
  - Resetting the rain/light sensor ((Forester, SJ))
  - Calibrating the camera ECU ((Forester, SJ), (XV, G5), (Impreza, G5), (Legacy/Outback, BS))
  - Resetting starter learning values ((Forester, SJ), (Legacy/Outback, BS))
- | **Codings**
- | **Service resets**

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- | **DoIP/CAN**
- | **Capable for diagnostics only with mega macs X**

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- | **Cyber Security Management (CSM)**
- | **Capable for diagnostics only with Cyber Security Management**

### Suzuki

- | **Trouble codes** (Jimny, FJ)
- | **Parameters** (Jimny, FJ)
- | **Actuators**
- | **Basic settings**
- | **Codings**
- | **Service resets**



## HGS Software-News



### Diagnostic devices

- | DoIP/CAN
  - | Capable for diagnostics only with mega macs X
- 
- | Cyber Security Management (CSM)
  - | Capable for diagnostics only with Cyber Security Management



HGS Software-News



Diagnostic devices



HGS Software-News



Diagnostic devices

**Tesla**



## Diagnostic devices

### Toyota

#### Trouble codes

(Auris, ADE186L), (Auris, NDE180), (Auris, NDE180L), (Auris, NRE180), (Auris, NRE180L), (Auris, NRE185L), (Auris, NZE181), (Auris, NZE184), (Auris, WWE185), (Auris, WWE185L), (Auris, ZRE185L), (Auris, ZRE186), (C-HR, MAXH10), (C-HR, NGX10L), (C-HR, NGX50), (C-HR, NGX50L), (C-HR, ZGX10), (C-HR, ZGX10L), (C-HR, ZGX11), (C-HR, ZGX50L), (C-HR, ZYX11), (Camry, ACV51), (Camry, AXVA70), (Camry, AXVH71), (Camry, GSV40), (Camry, GSV50), (Camry, GSV70), (Corolla, ), (Corolla, MZEA12), (Corolla, MZEH12), (Corolla, NDE170), (Corolla, NKE165), (Corolla, NRE180), (Corolla, NRE210L), (Corolla, NRE214H), (Corolla, ZEW211), (Corolla, ZRE142), (Corolla, ZRE143), (Corolla, ZRE162), (Corolla, ZRE170), (Corolla, ZRE171), (Corolla, ZRE172), (Corolla, ZRE173), (Corolla, ZRE181), (Corolla, ZRE210), (Corolla, ZWE211), (Hiace, GDH320), (Hiace, GRH320), (Highlander, ASU50L), (Highlander, AXUH78), (Highlander, GSU55L), (Highlander, GSU70), (Highlander, GSU75), (Highlander, GUV58), (Hilux, KUN15), (Hilux, KUN25), (Hilux, KUN26), (Hilux, KUN35), (Hilux, N25T), (Land Cruiser, GDJ15), (Land Cruiser, KDJ155), (Land Cruiser, VDJ15), (Prius, ZVW30), (Prius, ZVW35), (Prius, ZVW40), (Prius, ZVW41L), (Prius, ZVW50), (Prius, ZVW51), (Prius, ZVW52), (Prius, ZVW52L), (Proace, E), (Proace, MDX), (Proace, MDZ), (Proace, MPY), (RAV 4, ASA44), (RAV 4, ASA44R), (RAV 4, AVA42L), (RAV 4, AVA44), (RAV 4, AVA44L), (RAV 4, AXAP54), (Verso, AUR20), (Verso, AUR21), (Verso, NLP121), (Verso, NSP120), (Verso, WAR20L), (Verso, ZGR20), (Verso, ZGR21)

#### Parameters

(Auris, ADE186L), (Auris, NDE180), (Auris, NDE180L), (Auris, NRE180), (Auris, NRE180L), (Auris, NZE181), (Auris, NZE184), (Auris, ZRE185L), (Auris, ZRE186), (C-HR, MAXH10), (C-HR, NGX10L), (C-HR, NGX50), (C-HR, NGX50L), (C-HR, ZGX10), (C-HR, ZGX10L), (C-HR, ZGX11), (C-HR, ZGX50L), (C-HR, ZYX11), (Camry, ACV51), (Camry, AXVA70), (Camry, AXVH71), (Camry, GSV40), (Camry, GSV50), (Camry, GSV70), (Corolla, ), (Corolla, MZEA12), (Corolla, MZEH12), (Corolla, NDE170), (Corolla, NKE165), (Corolla, NRE180), (Corolla, NRE210L), (Corolla, NRE214H), (Corolla, ZEW211), (Corolla, ZRE142), (Corolla, ZRE143), (Corolla, ZRE162), (Corolla, ZRE170), (Corolla, ZRE171), (Corolla, ZRE172), (Corolla, ZRE173), (Corolla, ZRE181), (Corolla, ZRE210), (Corolla, ZWE211), (Hiace, GDH320), (Hiace, GRH320), (Highlander, ASU50L), (Highlander, GSU55L), (Highlander, GUV58), (Hilux, KUN15), (Hilux, KUN25), (Hilux, KUN26), (Hilux, KUN35), (Hilux, N25T), (Land Cruiser, GDJ15), (Land Cruiser, KDJ155), (Land Cruiser, VDJ15), (Prius, ZVW30), (Prius, ZVW35), (Prius, ZVW40), (Prius, ZVW41L), (Prius, ZVW50), (Prius, ZVW51), (Prius, ZVW52), (Prius, ZVW52L), (Proace, E), (Proace, MDZ), (Proace, MPY), (RAV 4, ASA44), (RAV 4, ASA44R), (RAV 4, AVA42L), (RAV 4, AVA44), (RAV 4, AVA44L), (RAV 4, AXAP54), (Verso, AUR20), (Verso, AUR21), (Verso, NLP121), (Verso, NSP120), (Verso, WAR20L), (Verso, ZGR21)

#### Actuators

(Auris, ADE186L), (Auris, NDE180), (Auris, NDE180L), (Auris, NRE180), (Auris, NRE180L), (Auris, NZE181), (Auris, NZE184), (Auris, ZRE185L), (Auris, ZRE186), (C-HR, MAXH10), (C-HR, NGX10L), (C-HR, NGX50), (C-HR, NGX50L), (C-HR, ZGX10), (C-HR, ZGX10L), (C-HR, ZGX11), (C-HR, ZGX50L), (C-HR, ZYX10L), (C-HR, ZYX11), (Camry, ACV51), (Camry, AXVA70), (Camry, AXVH71), (Camry, GSV40), (Camry, GSV50), (Corolla, ), (Corolla, MZEA12), (Corolla, MZEH12), (Corolla, NDE170), (Corolla, NKE165), (Corolla, NRE180), (Corolla, NRE210L), (Corolla, NRE214H), (Corolla, ZEW211), (Corolla, ZRE142), (Corolla, ZRE143), (Corolla, ZRE162), (Corolla, ZRE170), (Corolla, ZRE171), (Corolla, ZRE172), (Corolla, ZRE173), (Corolla, ZRE181), (Corolla, ZRE210), (Corolla, ZWE211), (Highlander, ASU50L), (Highlander, GSU55L), (Highlander, GUV58), (Land Cruiser, GDJ15), (Mirai, JPD10L), (Prius, ZVW30), (Prius, ZVW35), (Prius, ZVW40), (Prius, ZVW41L), (Prius, ZVW50), (Prius, ZVW51), (Prius, ZVW52), (Prius, ZVW52L), (Proace, E), (Proace, MDZ), (Proace, MPY), (RAV 4, ASA44), (RAV 4, ASA44R), (RAV 4, AVA42L), (RAV 4, AVA44), (RAV 4, AVA44L), (Verso, AUR20), (Verso, AUR21), (Verso, NLP121), (Verso, NSP120), (Verso, WAR20L), (Verso, ZGR21)

#### Basic settings

Bleeding the cooling system ((Proace, MDZ), (Proace, E), (Proace, MPY))  
Locking the airbag ECU ((Proace, MDZ), (Proace, E), (Proace, MPY))



## Diagnostic devices

Resetting the diesel exhaust fluid level ((Proace, MDZ))

Initializing the DeNOx system ((Proace, MDZ))

Initializing the yaw rate sensor ((Camry, AXVA70), (Camry, AXVH71), (Corolla, MZEA12), (Corolla, MZEH12))

Adapting the longitudinal acceleration sensor ((Proace, MDZ), (Proace, E), (Proace, MPY))

Deactivating the electronic stability control ((Camry, AXVA70), (Camry, AXVH71))

Learning the steering-angle sensor ((Camry, AXVA70), (Camry, AXVH71), (Corolla, MZEA12), (Corolla, MZEH12))

Learning the steering-angle sensor ((Proace, MDZ), (Proace, E), (Proace, MPY))

Resetting the particulate filter learning values ((Corolla, MZEA12), (Corolla, MZEH12))

Regenerating the soot particulate filter ((Corolla, MZEA12), (Corolla, MZEH12))

ECU of high-voltage safety shutdown ((Proace, MDZ), (Proace, E), (Proace, MPY))

Resetting adaptation values of ABS ECU ((Camry, AXVA70), (Camry, AXVH71), (Corolla, MZEA12), (Corolla, MZEH12))

Replace brake parts ((Proace, MDZ), (Proace, E), (Proace, MPY))

Initializing the rotor position sensor ((Proace, MDZ), (Proace, E), (Proace, MPY))

Initializing the rain/light sensor ((Proace, MDZ), (Proace, E), (Proace, MPY))

Initializing the air metering system ((Proace, MDZ))

Initializing the A/C flap actuators ((Corolla, MZEA12), (Corolla, MZEH12))

Calibrating the radar sensor ((Corolla, MZEA12), (Proace, MDZ), (Corolla, MZEH12), (Proace, E), (Proace, MPY))

Bleeding the brake system ((Camry, AXVA70), (Camry, AXVH71), (Corolla, NRE210L), (Corolla, ZRE210), (Corolla, NRE214H), (Corolla, ZEW211), (Corolla, MZEA12), (Corolla, MZEH12))

Configuring the lane change assist ((Corolla, MZEA12), (Corolla, MZEH12))

Reactivating the emergency brake assistant ((Proace, MDZ), (Proace, E), (Proace, MPY))

Registering the parking assist ((Corolla, ZWE211), (Corolla, NRE210L), (Corolla, ZRE210), (Corolla, NRE214H), (Corolla, ZEW211), (Corolla, MZEA12), (Corolla, MZEH12))

Unlocking the airbag ECU ((Proace, MDZ), (Proace, E), (Proace, MPY))

De/activating the parking brake service mode ((Corolla, MZEA12), (Corolla, MZEH12))

Leaving the ECO mode ((Proace, MDZ), (Proace, E), (Proace, MPY))

Bleeding the ABS/ESC system ((Proace, MDZ), (Proace, E), (Proace, MPY))

Draining the cooling system ((Proace, MDZ), (Proace, E), (Proace, MPY))

Calibrating the camera ECU ((Corolla, MZEA12), (Proace, MDZ), (Corolla, MZEH12), (Proace, E), (Proace, MPY))

Initializing the EGR valve ((Proace, MDZ))

Filling the cooling system ((Proace, MDZ), (Proace, E), (Proace, MPY))

Initializing ride height sensors ((Camry, ASV50), (RAV 4, ASA44), (Verso, ZGR21), (Verso, AUR20), (Verso, AUR21), (Prius, ZVW30), (Auris, NDE180L), (Verso, NSP120), (Verso, NLP121), (Prius, ZVW35), (Auris, NRE180L), (Auris, ZRE185L), (Auris, ADE186L), (Prius, ZVW40), (Camry, ACV51), (Camry, GSV50), (Highlander, GSU55L), (Sienna, GSL30), (Auris, NDE180), (Corolla, NRE180), (Corolla, ZRE181), (Corolla, NDE170), (Verso, WAR20L),



## Diagnostic devices

(Highlander, ASU50L), (Highlander, GVU58), (RAV 4, AVA42L), (RAV 4, AVA44L), (Land Cruiser, GDJ15), (Prius, ZVW50), (C-HR, ZYX10L), (C-HR, ZGX10L), (C-HR, ZGX50L), (Corolla, ZRE172), (Auris, NRE180), (C-HR, ZGX10), (Camry, AXVA70), (Camry, AXVH71), (Corolla, ZWE211), (Prius, ZVW51), (RAV 4, ALA49), (RAV 4, AVA44), (Corolla, NRE210L), (Corolla, ZRE210), (Prius, ZVW41L), (RAV 4, ASA44R), (Auris, NZE181), (Auris, NZE184), (Auris, ZRE186), (C-HR, ZGX11), (Camry, GSV40), (Corolla, NKE165), (Corolla, ZRE162), (Corolla, NRE214H), (Corolla, ZRE142), (Corolla, ZRE171), (Corolla, ZRE170), (Corolla, ), (Corolla, ZRE143), (Corolla, ZRE173), (Corolla, ZEW211), (Corolla, MZEA12), (Corolla, MZEH12))

Service mode (engine immobilizer can be deactivated > gasoline engine runs) ((Corolla, MZEH12), (Corolla, MZEA12))

### | Codings

Coding the trailer hitch ((Proace, MDZ), (Proace, E), (Proace, MPY))

Coding the comfort opening/closing system ((Corolla, MZEA12), (Corolla, MZEH12))

Coding the interior lighting ((Corolla, MZEA12), (Corolla, MZEH12))

Coding the tire pressure check ((Camry, AXVA70), (Camry, AXVH71), (Yaris, MXHP11), (Yaris, MXPA11), (RAV 4, AXAP54), (Yaris, GXPA16), (Yaris, MXPB10), (Yaris, MXPJ10), (Yaris, MXPJ15))

Coding the intrusion monitoring ((Proace, MDZ), (Proace, E), (Proace, MPY))

Deactivating/activating the transport mode ((Proace, MDZ), (Proace, E), (Proace, MPY))

Coding the wheel valves ((Corolla, MZEA12), (Corolla, MZEH12))

Coding the keys ((Proace, MDZ), (Proace, E), (Proace, MPY))

Registering the battery ((Proace, MDZ), (Proace, E), (Proace, MPY))

Configuring the key warning ((Corolla, MZEA12), (Corolla, MZEH12))

Coding the alarm sound ((Proace, MDZ), (Proace, E), (Proace, MPY))

### | Service resets

(Proace, E), (Proace, MDZ), (Proace, MPY)

### | DoIP/CAN

Capable for diagnostics only with mega macs X

### | Cyber Security Management (CSM)

Capable for diagnostics only with Cyber Security Management

## Volkswagen

### | Trouble codes

(Caddy, SA), (Caddy, SB), (Crafter, SC), (Crafter, SY), (Golf7, AU), (Golf8, CD), (Golf8, CG), (ID.3, E1), (ID.4, E2), (ID.5, E3), (Passat, CB), (T-Roc, A1), (T-Roc, AC), (T-Roc, D1), (Tiguan, 5N), (Touareg, CR), (Transporter, SF), (Transporter, SG)

### | Parameters

(Caddy, SA), (Caddy, SB), (Crafter, SC), (Crafter, SY), (Golf7, AU), (Golf8, CD), (Golf8, CG), (ID.3, E1), (ID.4, E2), (ID.5, E3), (Passat, CB), (T-Roc, A1), (T-Roc, AC), (T-Roc, D1), (Tiguan, 5N), (Touareg, CR), (Transporter, SF), (Transporter, SG)



## Diagnostic devices

- Actuators**
  - (Caddy, SA), (Caddy, SB), (Crafter, SC), (Crafter, SY), (Golf7, AU), (Golf8, CD), (Golf8, CG), (ID.5, E3), (Passat, CB), (T-Roc, A1), (T-Roc, AC), (T-Roc, D1), (Tiguan, 5N), (Touareg, CR), (Transporter, SF), (Transporter, SG)
  
- Basic settings**
  - Resetting fuel system adaptation values ((Caddy, SA))
  - Regenerating the soot particulate filter ((Touareg, CR), (T-Roc, D1), (Crafter, SY), (Caddy, SA), (Caddy, SB), (Golf8, CG), (Golf8, CD), (Crafter, SC), (Passat, CB), (T-Roc, A1), (Tiguan, 5N))
  - Initializing the ESC sensors ((Polo, 6R), (T-Roc, D1), (Crafter, SY), (Caddy, SA), (Golf7, AU), (Caddy, SB), (Golf8, CG), (Golf8, CD), (Crafter, SC), (Passat, CB), (T-Roc, A1), (Tiguan, 5N))
  - Adapting the normal position of ride-height levelling ((Touareg, CR))
  - Regenerating the soot particulate filter ((Touran, 1T))
  - Changing and checking DCT fluid ((Golf7, 5G), (Passat, 3G), (Golf7, BQ), (Passat, CB), (Golf8, CD), (Transporter, ST))
  - Initialising the boost pressure regulator ((Caddy, SA), (T-Roc, AC), (T-Cross, C1), (Tiguan, AX), (Tiguan, BJ), (Taigo, CS), (T-Roc, D1), (Golf7, AU), (Golf8, CG), (Tiguan, 5N))
  - Performing engine adaptations ((T-Roc, D1), (Crafter, SY), (Caddy, SB), (Golf8, CG), (Crafter, SC), (Passat, CB), (T-Roc, A1))
  - Standardizing the liftgate ((Touareg, CR), (T-Roc, D1), (Golf8, CG), (Golf8, CD), (ID.5, E3), (Passat, CB), (T-Roc, A1), (Tiguan, 5N))
  - Initialize actuator of coolant temperature control ((T-Roc, D1), (Golf7, AU), (Golf8, CG), (Tiguan, 5N))
  - Adapting the soot particulate filter ((Touran, 1T), (Touareg, 7P), (T-Roc, D1), (Crafter, SY), (Caddy, SA), (Golf7, AU), (Caddy, SB), (Golf8, CG), (Golf8, CD), (Crafter, SC), (Passat, CB), (T-Roc, A1), (Tiguan, 5N))
  - Learning the steering-angle sensor ((Sharan, 7N), (Caddy, SB), (Golf8, CG), (Golf8, CD), (ID.5, E3))
  - Resetting gen. ECU learning values ((Touran, 1T))
  - Resetting timing chain adaptation values ((T-Roc, D1), (Golf7, AU), (Golf8, CG), (Tiguan, 5N))
  - Initializing the exhaust gas flap ((Touareg, CR))
  - Initialize 4WD clutch oil pump ((T-Roc, D1), (Crafter, SY), (Caddy, SA), (Golf7, AU), (Crafter, SC), (Passat, CB), (T-Roc, A1), (Tiguan, 5N))
  - Resetting the impact mode ((Touareg, CR), (T-Roc, D1), (Crafter, SY), (Golf7, AU), (Golf8, CD), (Golf8, CG), (Crafter, SC), (Passat, CB), (T-Roc, A1), (Tiguan, 5N))
  - Calibrating the camera ECU ((Touareg, CR), (Golf8, CD), (T-Roc, AC), (Tiguan, AX), (Caddy, SB), (Tiguan, BW), (Transporter, ST), (Tiguan, BJ), (T-Roc, D1), (Crafter, SY), (Caddy, SA), (Golf8, CG), (Golf7, AU), (Crafter, SC), (ID.5, E3), (Passat, CB), (T-Roc, A1), (Tiguan, 5N))
  - Adapting the DEF injection system ((Touareg, CR), (Crafter, SY), (Crafter, SC))
  - Changing the drive type ((Golf7, 5G), (Passat, 3G), (Golf7, BQ), (Passat, CB), (Golf8, CD), (Tiguan, AX), (Transporter, ST))
  - Checking the transmission fluid level ((Touran, 1T))
  - Initializing the lateral acceleration sensor ((Polo, 6R))
  - Resetting engine adaptation values ((Caddy, SA), (Polo, AW), (up!, 12), (Polo, AE), (Touareg, CR), (T-Roc, D1), (Crafter, SY), (Golf7, AU), (Golf8, CG), (Crafter, SC), (Tiguan, 5N))



## Diagnostic devices

Adapting the electronic damper control ((T-Roc, D1), (Golf7, AU), (Golf8, CG), (Golf8, CD), (ID.5, E3), (Passat, CB), (T-Roc, A1), (Tiguan, 5N))

Resetting the start inhibitor of DEF injection system ((Touareg, CR), (T-Roc, D1), (Crafter, SY), (Caddy, SB), (Golf8, CG), (Passat, CB), (T-Roc, A1))

Reset learned values of injectors. ((T-Roc, D1), (Golf8, CD), (Golf8, CG))

Locking/unlocking the ride height leveling ((Touareg, CR))

Resetting the warning message of DEF injection system ((Sharan, 7N), (Golf7, 5G), (Golf7, BA), (Golf7, AM), (Touran, 5T), (Tiguan, AD), (Crafter, SY), (Crafter, SZ), (Golf7, AN), (Passat, 3G), (Transporter, SG), (Transporter, SF), (Golf7, BQ), (Golf7, BV), (Arteon, 3H), (Tiguan, BW), (T-Roc, A1), (Passat, CB), (Transporter, SH), (Transporter, SJ), (Crafter, SC))

Performing the initial run-in of the air conditioning compressor ((Touareg, CR), (T-Roc, D1), (Crafter, SY), (Caddy, SA), (Golf7, AU), (Caddy, SB), (Golf8, CG), (Golf8, CD), (Crafter, SC), (Passat, CB), (T-Roc, A1), (Tiguan, 5N))

Adjust waste gate valve ((Caddy, SA))

Resetting the refrigerant loss counter ((Touareg, CR))

Initializing the A/C flap actuators ((T-Roc, D1), (Crafter, SY), (Caddy, SA), (Golf7, AU), (Caddy, SB), (Golf8, CG), (Golf8, CD), (Crafter, SC), (ID.5, E3), (Passat, CB), (T-Roc, A1), (Tiguan, 5N))

Learning the turbocharger ((Caddy, SA))

Putting the 48 V system back into operation ((Touareg, CR))

Initializing the clutch pedal position ((T-Roc, D1), (Golf7, AU), (Passat, CB), (T-Roc, A1), (Tiguan, 5N))

Adapting the radiator shutter ((Touareg, CR), (ID.3, E1), (ID.4, E2), (T-Roc, D1), (Golf8, CD), (Golf8, CG), (ID.5, E3))

Adjusting the headlights ((Touareg, CR), (ID.3, E1), (Tiguan, AX), (Caddy, SA), (Caddy, SB), (Golf8, CG), (Golf8, CD), (Passat, CB), (Tiguan, 5N))

Adapting oil pressure for engine run-in ((Passat, 3G), (Caddy, SA), (Transporter, SG), (Transporter, SF), (Golf7, BQ), (Passat, CB), (Tiguan, AX), (Touareg, CR), (Crafter, SY), (Golf7, AU), (Crafter, SC))

Bleeding the cooling system ((Golf7, BE), (Golf7, 5G), (Passat, 3G), (Golf7, BQ), (Passat, CB), (Transporter, SH), (Transporter, SJ), (ID.3, E1), (Golf8, CD), (ID.4, E2), (Tiguan, AX), (Transporter, ST), (Touareg, CR), (T-Roc, D1), (Crafter, SY), (Golf7, AU), (Caddy, SB), (Golf8, CG), (ID.5, E3), (T-Roc, A1), (Tiguan, 5N))

De-energizing the 48 V system ((Touareg, CR))

Filling/bleeding the pneumatic suspension system ((Touareg, CR))

Unlocking/locking the self-steering rear axle ((Touareg, CR))

Initializing the transmission ECU ((Jetta, 16), (Caddy, SA), (Touran, 1T), (New Beetle, 5C))

Resetting the diesel exhaust fluid level ((T-Roc, D1), (Crafter, SY), (Caddy, SB), (Golf8, CG), (Passat, CB), (T-Roc, A1))

Resetting oxygen sensor adaptation values ((Caddy, SA))

Regenerating the soot particulate filter ((Touareg, 7P))

Performing transmission adaptations ((T-Roc, D1), (Golf7, AU), (Caddy, SB), (Golf8, CG), (Golf8, CD), (Passat, CB), (T-Roc, A1), (Tiguan, 5N))

Initializing the seat belt tensioner ECU ((T-Roc, D1), (Golf7, AU), (Passat, CB), (T-Roc, A1), (Tiguan, 5N))



## Diagnostic devices

Bringing gear actuator of direct shift transmission in neutral position ((Jetta, 16), (Caddy, SA), (Touran, 1T), (New Beetle, 5C))

Learning the turbocharger ((Touareg, CR))

Learning the throttle valve ((Transporter, SG), (Transporter, SF), (Polo, AW), (Passat, CB), (Golf8, CD), (Tiguan, AX), (Transporter, ST), (Polo, AE), (Touareg, CR), (T-Roc, D1), (Caddy, SA), (Golf7, AU), (Golf8, CG), (Tiguan, 5N))

Activating the roller test stand mode ((Caddy, SB), (Golf8, CG), (Golf8, CD))

Initializing the brake-pressure sensor ((Polo, 6R), (Touran, 1T), (Jetta, 1K), (T-Roc, D1), (Caddy, SA), (Golf7, AU), (Caddy, SB), (Golf8, CG), (Golf8, CD), (Passat, CB), (T-Roc, A1), (Tiguan, 5N))

Adapting the aux. heater ((Touran, 1T))

Initializing the high-pressure fuel pump ((Touareg, CR))

Calibrating the tire pressure monitoring system ((Touran, 1T))

Retracting parking brake ((Touareg, CR), (T-Roc, D1), (Golf7, AU), (Caddy, SB), (Golf8, CG), (Golf8, CD), (ID.5, E3), (Passat, CB), (T-Roc, A1), (Tiguan, 5N))

Reducing fuel high pressure ((Caddy, SA), (Touareg, CR), (T-Roc, D1), (Golf7, AU), (Golf8, CD), (Golf8, CG), (Tiguan, 5N))

Configuring the lane change assist ((Touareg, CR), (Passat, CB))

Initializing the air distribution flap actuator ((Crafter, SY), (Crafter, SC))

Initializing the neutral position sensor ((Caddy, SA), (Polo, AW), (up!, 12), (Polo, AE), (T-Roc, D1), (Crafter, SY), (Golf7, AU), (Golf8, CD), (Golf8, CG), (Crafter, SC), (Tiguan, 5N))

Initializing the EGR valve ((Touareg, 7P), (Caddy, SA))

Adapting the fuel burning heater remote control ((Touran, 1T), (Transporter, 7J), (Transporter, 7H), (Touareg, CR), (T-Roc, D1), (Crafter, SY), (Caddy, SA), (Golf7, AU), (Caddy, SB), (Golf8, CG), (Golf8, CD), (Crafter, SC), (Passat, CB), (T-Roc, A1), (Tiguan, 5N))

Unlocking aux. heater/independent car heater ((Touran, 1T), (Touareg, CR), (T-Roc, D1), (Crafter, SY), (Caddy, SA), (Golf7, AU), (Caddy, SB), (Golf8, CG), (Golf8, CD), (Crafter, SC), (Passat, CB), (T-Roc, A1), (Tiguan, 5N))

Calibrating the front edge radar ((Touareg, CR))

Initializing the fuel quantity adjuster ((Touareg, CR))

Initializing electric seats ((Touareg, CR), (T-Roc, AC), (T-Roc, D1), (Golf7, AU), (Golf8, CG), (Golf8, CD), (ID.5, E3), (Passat, CB), (Tiguan, 5N))

Initializing the adaptive cruise control ((Touareg, CR), (T-Roc, D1), (Crafter, SY), (Golf7, AU), (Crafter, SC), (ID.5, E3), (Passat, CB), (T-Roc, A1), (Tiguan, 5N))

Filling fuel lines of parking heater/auxiliary heater ((T-Roc, D1), (Crafter, SY), (Golf7, AU), (Caddy, SB), (Golf8, CG), (Golf8, CD), (Crafter, SC), (Passat, CB), (T-Roc, A1), (Tiguan, 5N))

Initializing the oxidation catalyst ((Crafter, SY), (Crafter, SZ), (Transporter, SG), (Transporter, SF), (T-Roc, D1), (Crafter, SC), (Caddy, SB), (Golf8, CG), (Passat, CB), (T-Roc, A1))

Reset exhaust-gas aftertreatment filter learning values ((Touareg, CR))

Adapting the electro-mechanical power steering ((Touran, 1T))

Bleeding the fuel system ((Golf7, 5G), (Passat, 3G), (Touran, 1T), (Transporter, SG), (Transporter, SF), (Golf7, BQ), (Touareg, CR), (Passat, CB), (Tiguan, AX), (T-Roc, D1), (Crafter, SY), (Crafter, SC), (Caddy, SA), (Caddy, SB), (Golf8, CG), (T-Roc, A1))



## Diagnostic devices

Burning off aux. heater/independent car heater ((Touran, 1T), (Touareg, CR), (T-Roc, D1), (Crafter, SY), (Caddy, SA), (Golf7, AU), (Caddy, SB), (Golf8, CG), (Golf8, CD), (Crafter, SC), (Passat, CB), (T-Roc, A1), (Tiguan, 5N))

Learning the steering-angle sensor ((Touran, 1T), (Jetta, 1K), (Touareg, CR), (T-Roc, D1), (Crafter, SY), (Caddy, SA), (Golf7, AU), (Crafter, SC), (Passat, CB), (T-Roc, A1), (Tiguan, 5N))

Initializing the tilt/slide sunroof ((Touareg, CR), (T-Roc, D1), (Golf7, AU), (Golf8, CG), (Golf8, CD), (Passat, CB), (T-Roc, A1), (Tiguan, 5N))

Adjusting the xenon headlight ((Touran, 1T))

Adapting the exhaust gas pressure sensor ((Touran, 1T), (Touareg, 7P), (Touareg, CR), (Caddy, SA))

Initializing the adaptive cruise control ((Caddy, SA), (Caddy, SB), (Golf8, CG), (Golf8, CD))

Special bleeding ((Golf7, 5G), (Golf7, BA), (Golf7, AM), (Golf7, BE), (Passat, 3G), (Touran, 5T), (Sharan, 7M), (Tiguan, AD), (Crafter, SY), (Crafter, SZ), (Golf7, AN), (Polo, 6R), (Polo, 9N), (Polo, 6C), (Touran, 1T), (Jetta, 1K), (Golf7, BV), (Golf7, BQ), (Arteon, 3H), (Polo, AW), (Tiguan, BW), (T-Roc, A1), (T-Cross, C1), (Passat, CB), (Transporter, SH), (Transporter, SJ), (Golf8, CD), (T-Roc, AC), (Tiguan, AX), (Caddy, SB), (Transporter, ST), (Polo, AE), (Tiguan, BJ), (Taigo, CS), (T-Roc, D1), (Golf8, CG), (Golf7, AU), (Crafter, SC), (Tiguan, 5N))

Initializing the alternator ((T-Roc, D1), (Crafter, SY), (Golf7, AU), (Crafter, SC), (Passat, CB), (T-Roc, A1), (Tiguan, 5N))

Activating the retrofitted parking heater ((Golf7, AU), (Caddy, SB), (Golf8, CG), (Golf8, CD), (Passat, CB), (Tiguan, 5N))

Adapting the electronic climate control ((Touran, 1T), (Touareg, CR))

Calibrating the parking brake ((Caddy, SB), (Golf8, CG), (Golf8, CD))

Extending parking brake ((Touareg, CR), (T-Roc, D1), (Golf7, AU), (Caddy, SB), (Golf8, CG), (Golf8, CD), (ID.5, E3), (Passat, CB), (T-Roc, A1), (Tiguan, 5N))

Adjust headlight with/without dynamic light control (DLA) ((T-Roc, D1), (Golf7, AU), (T-Roc, A1))

Calibrating the parking brake ((Touareg, CR), (T-Roc, D1), (Golf7, AU), (Passat, CB), (T-Roc, A1), (Tiguan, 5N))

### | Codings

Adjust parking assistance volume ((ID.4, E2), (T-Roc, D1), (Crafter, SY), (Caddy, SA), (Golf7, AU), (Caddy, SB), (Golf8, CG), (Golf8, CD), (Crafter, SC), (ID.5, E3), (Passat, CB), (T-Roc, A1), (Tiguan, 5N))

General ECU replacement ((Touareg, CR), (T-Roc, D1), (Crafter, SY), (Caddy, SA), (Golf7, AU), (Crafter, SC), (Passat, CB), (T-Roc, A1), (Tiguan, 5N))

Coding the language version ((T-Roc, D1), (Crafter, SY), (Golf7, AU), (Crafter, SC), (Passat, CB), (T-Roc, A1), (Tiguan, 5N))

Coding the radio remote control ((up!, 12), (Golf7, 5G), (Golf7, BA), (Golf7, AM), (up!, BL), (Golf7, BE), (Passat, 3G), (Caddy, SA), (Golf7, AN), (Golf7, BV), (Golf7, BQ), (Arteon, 3H), (Passat, CB), (Golf7, AU))

Expert mode ECU coding ((Touareg, CR), (T-Roc, D1), (Crafter, SY), (Caddy, SA), (Golf7, AU), (Crafter, SC), (Passat, CB), (T-Roc, A1), (Tiguan, 5N))

Coding the rain/light sensor ((Touareg, CR), (T-Roc, D1), (Crafter, SY), (Golf7, AU), (Caddy, SB), (Golf8, CG), (Golf8, CD), (Crafter, SC), (ID.5, E3), (Passat, CB), (T-Roc, A1), (Tiguan, 5N))

Registering the battery ((Touareg, CR), (T-Roc, D1), (Crafter, SY), (Caddy, SA), (Golf7, AU), (Caddy, SB), (Golf8, CG), (Golf8, CD), (Crafter, SC), (Passat, CB), (T-Roc, A1), (Tiguan, 5N))



## Diagnostic devices

Deactivating/activating the transport mode ((Touareg, CR), (T-Roc, D1), (Crafter, SY), (Caddy, SA), (Golf7, AU), (Caddy, SB), (Golf8, CG), (Golf8, CD), (Crafter, SC), (Passat, CB), (T-Roc, A1), (Tiguan, 5N))

Coding the trailer detection ((Touareg, CR), (T-Roc, D1), (Crafter, SY), (Caddy, SA), (Golf7, AU), (Caddy, SB), (Golf8, CG), (Golf8, CD), (Crafter, SC), (ID.5, E3), (Passat, CB), (T-Roc, A1), (Tiguan, 5N))

Coding the steering-column module ((T-Roc, D1), (Crafter, SY), (Caddy, SA), (Golf7, AU), (Crafter, SC), (Passat, CB), (T-Roc, A1), (Tiguan, 5N))

Replacing the headlight/power module ((Golf7, AU))

Coding the language version of instrument cluster ((Caddy, SA))

Adapting the trailer hitch to advanced driver assistance systems ((Touareg, CR), (T-Roc, D1), (Crafter, SY), (Caddy, SA), (Golf7, AU), (Crafter, SC), (Passat, CB), (T-Roc, A1), (Tiguan, 5N))

Coding injectors ((Touareg, CR), (T-Roc, D1), (Crafter, SY), (Caddy, SA), (Caddy, SB), (Golf8, CG), (Crafter, SC), (Passat, CB), (T-Roc, A1))

Adapting the power steering after replacement ((Caddy, SA))

De/activating the trailer hitch ((Touareg, CR), (T-Roc, D1), (Crafter, SY), (Caddy, SA), (Golf7, AU), (Caddy, SB), (Golf8, CG), (Golf8, CD), (Crafter, SC), (Passat, CB), (T-Roc, A1), (Tiguan, 5N))

Coding the gateway installation list ((T-Roc, D1), (Crafter, SY), (Caddy, SA), (Golf7, AU), (Crafter, SC), (Passat, CB), (T-Roc, A1), (Tiguan, 5N))

Coding the fuel burning heater ((Caddy, SA))

**| Service resets** (Caddy, 2C), (Caddy, SA), (Caddy, SB), (Crafter, SC), (Crafter, SY), (Golf7, AU), (Golf7, BA), (Golf7, BQ), (Golf7, BV), (Golf8, CD), (Golf8, CG), (ID.5, E3), (Passat, CB), (T-Roc, A1), (T-Roc, D1), (Tiguan, 5N), (Touareg, CR)

**| DoIP/CAN**

**| Capable for diagnostics only with mega macs X**

**| Cyber Security Management (CSM)** (Golf8, CD), (ID.3, E1), (ID.4, E2), (Caddy, SB), (Transporter, ST), (Golf8, CG), (ID.5, E3)

**| Capable for diagnostics only with Cyber Security Management**

### Volvo

**| Trouble codes** (850, LW), (XC40, XZ)

**| Parameters** (850, LW)

**| Actuators** (850, LW)

**| Basic settings**

**| Codings**



## Diagnostic devices

| **Service resets** (850, LW)

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| **DoIP/CAN**  
| **Capable for diagnostics**  
| **only with mega macs X**

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| **Cyber Security** (XC40, XZ)  
| **Management (CSM)**  
| **Capable for diagnostics**  
| **only with Cyber Security**  
| **Management**