



HGS-PATCHNOTE EUR mega macs 42 SE



Additions and amendments in software version 49

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

Alfa Romeo

Trouble codes	Giulietta, Mito
Parameters	Giulietta, Mito
Actuators	Giulietta, Mito
Basic settings	Registering the neutral position signal (Giulietta, Mito) Replacing the transmission ECU of electric pump (Giulietta) Initializing the learned values of variable camshaft timing upon replacement (Giulietta) Self-adjustment of transmission band end (Giulietta) Negative pressure buildup of transmission (Giulietta, Mito)
Codings	Battery change warning (Giulietta, Mito)



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Audi

Trouble codes	A1/S1 (8X), A3/RS3/S3 (8V/85), A4 (8W), A4/RS4/S4 (8E/8H/8K), A5/RS5/S5 (8T/8F), A6/RS6/S6 (4F/4G), A7/RS7/S7 (4G), A8 (4H), A8/S8 (4E), Q3 (8U/8UB/8UG), Q5 (8R), Q7 (4L), TT (FV)
Parameters	A1/S1 (8X), A3/RS3/S3 (8V/85), A4 (8W), A4/RS4/S4 (8K), A5/RS5/S5 (8T/8F), A6/RS6/S6 (4G), A7/RS7/S7 (4G), Q3 (8U/8UB/8UG), Q5 (8R), TT (FV)
Actuators	A1/S1 (8X), A3/RS3/S3 (8V/85), A4 (8W), A4/RS4/S4 (8K), A5/RS5/S5 (8T/8F), A6/RS6/S6 (4G), A7/RS7/S7 (4G), Q3 (8U/8UB/8UG), Q5 (8R), TT (FV)
Basic settings	<p>Adapting the exhaust gas back pressure sensor (A3/RS3/S3 (8V/85), A4/RS4/S4 (8K), A5/RS5/S5 (8T/8F), A6/RS6/S6 (4G), A7/RS7/S7 (4G), Q3 (8U), Q5 (8R))</p> <p>Adapting the additive system (A4 (8W), A4/RS4/S4 (8K), A5/RS5/S5 (8T/8F), A6/RS6/S6 (4G), A7/RS7/S7 (4G), Q3 (8U), Q5 (8R))</p> <p>Initializing the brake-pressure sensor (Q3 (8UB/8UG))</p> <p>Adapting the advanced driver assistance systems to trailer hitch (Q3 (8U))</p> <p>Retracting/extending the parking brake (Q3 (8UB/8UG))</p> <p>Calibrating the front camera (A4 (8W))</p> <p>Performing the EGR basic setting (A1/S1 (8X), A3/RS3/S3 (8V/85), A4 (8W), A4/RS4/S4 (8K), A5/RS5/S5 (8T/8F), A6/RS6/S6 (4G), A7/RS7/S7 (4G), Q3 (8U), Q5 (8R))</p> <p>Performing the throttle valve basic setting (A4 (8W))</p> <p>Performing the basic setting of the throttle unit (A3/RS3/S3 (8V/85), A4 (8E/8H), A4 (8E/8H), TT (FV))</p> <p>Performing the basic setting of ESP sensor system (Q3 (8UG))</p> <p>Performing the steering angle sensor basic setting (A3/RS3/S3 (8V/85), TT (FV))</p> <p>Performing the basic setting of the intake manifold flaps (A1/S1 (8X), Q5 (8R))</p> <p>Performing the basic setting of the turbocharger (A1/S1 (8X), A3/RS3/S3 (8V/85), A4 (8W), A4/RS4/S4 (8K), A5/RS5/S5 (8T/8F), A6/RS6/S6 (4G), A7/RS7/S7 (4G), Q3 (8U), Q5 (8R))</p> <p>Bleeding the fuel system (Q5 (8R))</p> <p>Adapting the radiator shutter (A4 (8W))</p> <p>Bleeding the cooling system (A1 (8X), A3/RS3/S3 (8V/85), A4 (8W), A4/RS4/S4 (8K), A5/RS5/S5 (8T/8F), A6/RS6/S6 (4G), A7/RS7/S7 (4G), A6/RS6/S6 (4G), A7/RS7/S7 (4G), Q3 (8U), Q5 (8R), TT (FV))</p> <p>Resetting learned values of the fuel system (A3/RS3/S3 (8V/85), Q5 (8R))</p> <p>Resetting learned values of the oxygen sensor (A1/S1 (8X), A3/RS3/S3 (8V/85))</p> <p>Resetting learned values of the engine ECU (A4 (8W), A4/RS4/S4 (8K), A5/RS5/S5 (8T/8F), A6/RS6/S6 (4G), A7/RS7/S7 (4G), Q3 (8U), Q5 (8R))</p> <p>Performing the zero position of lateral acceleration sensor (Q3 (8UG))</p> <p>Adapting the diesel particulate filter (A1/S1 (8X), A3/RS3/S3 (8V/85), A4 (8W)), A4/RS4/S4 (8K), A5/RS5/S5 (8T/8F), A6/RS6/S6 (4G), A7/RS7/S7 (4G), Q3 (8U), Q5 (8R))</p> <p>Regenerating the particulate filter (A1/S1 (8X), A3/RS3/S3 (8V/85), A4 (8W), A4/RS4/S4 (8K), A5/RS5/S5 (8T/8F), A6/RS6/S6 (4G), A7/RS7/S7 (4G), Q3 (8U), Q5 (8R))</p> <p>Adapting the intake manifold flap 1 and 2 (A4/RS4/S4 (8E/8H), A6/RS6/S6 (4F))</p>



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Initializing the lane departure warning system (A8/S8 (4E))

Initializing the headlights (A4 (8W))

Retrofitting the parking heater (Q7 (4L))

Adapting the turbocharger actuator (A1 (8X), A3 (8P))

| Codings

Coding the trailer recognition (A1 (8X), A3/RS3/S3 (8P), Q3 (8U))

Coding the gateway installation list (A4 (8W))

De/activating the cruise control (A1 (8X), A3/RS3/S3 (8P), Q3 (8U), A5/RS5/S5 (8T/8F)Q3 (8U), Q5 (8R))

Coding the injectors (A1/S1 (8X), A3/RS3/S3 (8V/85), A4 (8W), A4/RS4/S4 (8K), A5/RS5/S5 (8T/8F), A6/RS6/S6 (4G), A7/RS7/S7 (4G), Q3 (8U), Q5 (8R))

Coding the expert mode of ECUs (A4 (8W))

Coding the rain/light sensor (A3/RS3/S3 (8V/85), TT (FV))

Coding the rear camera system (Q3 (8U))

Coding ECUs upon replacement (A4 (8W))

De/activating the transport mode (A4 (8W))

| Service reset

Performing the service reset (A4 (8W))

| Test functions

Checking smooth idle operation control (A3/S3/RS3 (8V/85))



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BMW

Parameters

1 Series (E81, E82, E87, E88, F20, F21), 2 Series (F22, F23), 3 Series (E90, F30) Sedan, 3 Series (E91) Estate car, 3 Series (E92) Coupe, 3 Series (E93) Cabriolet, 3 Series (F31) Estate car, 3 Series (F34) GT, 4 Series (F32) Coupe, 4 Series (F33) Cabriolet, 4 Series (F36) Grand Coupé, 5 Series (F60) Sedan, 5 Series (F61) Estate car, 5 Series (F07) GT, 5 Series (F10) Sedan, 5 Series (F11) Estate car, 5 Series (F18) Sedan, 6 Series (E63, E64, F06, F12, F13), 7 Series (E65, E66, E68, F01, F04), i3 Electro, i3 Rex, X1 (E84, F48), X3 (E83, F25), X4 (F26), X5 (E70, F15), X6 (E71, E72, F16), Z4 (E86, E89)

Actuators

1 Series (E81, E82, E87, F20, F21), 2 Series (F22, F23), 3 Series (E90, F30) Sedan, 3 Series (E91) Estate car, 3 Series (E92) Coupe, 3 Series (E93) Cabriolet, 3 Series (F31) Estate car, 3 Series (F34) GT, 4 Series (F32) Coupe, 4 Series (F33) Cabriolet, 4 Series (F36) Grand Coupé, 5 Series (F60) Sedan, 5 Series (F61) Estate car, 5 Series (F07) GT, 5 Series (F10) Sedan, 5 Series (F11) Estate car, 5 Series (F18) Sedan, 6 Series (E63, E64, F06, F12, F13), 7 Series (E65, E66, E68, F01, F02, F04), i3 Electro, i3 Rex, X1 (E84, F48), X3 (E83, F25), X4 (F26), X5 (E70, F15), X6 (E71, E72, F16), Z4 (E86, E89)

Test functions

Performing the antenna test (1 Series (F20, F21), 3 Series (F34), 3 Series (F30) Sedan, 3 Series (F31) Estate car, 4 Series (F32) Coupe, 4 Series (F33) Cabriolet, i3 Electro, i3 Rex)

Performing the energy diagnostics (1 Series (F20, F21), 2 Series (F22, F23), 3 Series (F30) Sedan, 3 Series (F31) Estate car, 3 Series (F34) GT, 4 Series (F32) Coupe, 4 Series (F33) Cabriolet, 4 Series (F36) Grand Coupé, 5 Series (F07) GT, 5 Series (F10) Sedan, 5 Series (F11) Estate car, 5 Series (F18) Sedan, 7 Series (F01, F02, F04), X3 (F25), X4 (F26), X5 (F15), X6 (E71, E72, F16))

Reading out the fuel quality sensor (1 Series (F20, F21), 2 Series (F22, F23), 3 Series (F30) Sedan, 3 Series (F31) Estate car, X3 (F25))

Performing a quick check of all ECUs (1 Series (F20, F21), 2 Series (F22, F23), 3 Series (F30) Sedan, 3 Series (F31) Estate car, 3 Series (F34) GT, 4 Series (F32) Coupe, 4 Series (F33) Cabriolet, 4 Series (F36) Grand Coupé, 5 Series (F07) GT, 5 Series (F10) Sedan, 5 Series (F11) Estate car, 5 Series (F18) Sedan, 6 Series (F06) Sedan, 6 Series (F12, F13), 7 Series (F01, F02, F04), i3 Electro, i3 Rex, X1 (F48), X3 (F25), X4 (F26), X5 (F15), X6 (F16))

Requesting the AdBlue fluid level in tank (3 Series (F30) Sedan, 3 Series (F31) Estate car, 3 Series (F34) GT, 4 Series (F32) Coupe, 4 Series (F33) Cabriolet, 4 Series (F36) Grand Coupé, 5 Series (F07) GT, 5 Series (F10) Sedan, 5 Series (F11) Estate car, 6 Series (F06, F12, F13), 7 Series (F01, F02, F04), X3 (F25), X4 (F26), X5 (F15), X6 (F16))

Performing tank leak diagnosis (1 Series (E81, E82, E87, E88, F20, F21), 2 Series (F22, F23), 3 Series (E90) Sedan, 3 Series (E91) Estate car, 3 Series (E92) Coupe, 3 Series (E93) Cabriolet, 3 Series (F30) Sedan, 3 Series (F31) Estate car, 3 Series (F34) GT, 4 Series (F32) Coupe, 4 Series (F33) Cabriolet, 4 Series (F36) Grand Coupé, 5 Series (F60) Sedan, 5 Series (F61) Estate car, 5 Series (F07) GT, 5 Series (F10) Sedan, 5 Series (F11) Estate car, 5 Series (F18) Sedan, 6 Series (E63, E64), 7 Series (E65, E66, E68, F01, F04, F07), X1 (E84), X3 (E83, F25), X4 (F26), X5 (E70, F15), X6 (E71, E72, F16), Z4 (E89))

Activating the rollover bar (1 Series (E88), 6 Series (F12))



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Chevrolet

- | **Trouble codes** Captiva (II)
- | **Parameters** Captiva (II)
- | **Basic settings** Calibrating the parking brake (Captiva (II))
 Initializing tire pressure sensors (Orlando, Trax)
 Regenerating the particulate filter (Trax)
 Deleting adaptation values of front camera (Orlando)
 Initializing the lane departure warning system camera (Orlando)
 Activating the service mode of parking brake cable pull (Captiva (II))
 Tensioning the parking brake cable pull upon service (Captiva (II))
 Replacing the parking brake cable pull (Captiva (II))
- | **Service reset** Releasing the parking brake cable pull manually (Captiva (II))
 Tensioning the parking brake cable pull manually (Captiva (II))



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Citroën

- | **Trouble codes** Berlingo (III), C-Quatre Hatchback, C-Quatre Sedan, C-Quatre Triumph, C2, C3 Picasso, C3 Pluriel, C3 (II, III), C4, C4 (II), C4 Picasso, C4 Picasso (II), C4 Cactus, C5, C5 (III), C6, C8, DS3, DS4, DS5, Jumper (III), Jumpy (III)
- | **Parameters** Berlingo (III), C-Quatre Hatchback, C-Quatre Sedan, C-Quatre Triumph, C2, C3 Picasso, C3 Pluriel, C3 (II, III), C4, C4 (II), C4 Picasso, C4 Picasso (II), C4 Cactus, C5, C5 (III), C6, C8, DS3, DS4, DS5, Jumper (III), Jumpy (III)
- | **Actuators** Berlingo (III), C-Quatre Hatchback, C-Quatre Sedan, C-Quatre Triumph, C2, C3 Picasso, C3 Pluriel, C3 (II, III), C4, C4 (II), C4 Picasso, C4 Picasso (II), C4 Cactus, C5, C5 (III), C6, C8, DS3, DS4, DS5, Jumpy (III)
- | **Basic settings**
 - Bleeding the ABS/DSC hydraulic unit (C6)
 - Initializing adaptive functions (C3 (III), C4 (II))
 - Filling the additive container (Berlingo (III), C3 (III))
 - Initializing the additive container/pump upon replacement (C4 Cactus, DS3)
 - Cleaning the EGR valve (Berlingo (III), C3 (III))
 - Bleeding the brake (C6)
 - Regenerating the DeNOx catalyst (Berlingo (III), C3 (III))
 - Removing and installing the gear selector lever actuator (C4 Picasso (II))
 - Building up/reducing the suspension pressure (C4)
 - Adapting the gear selector lever (C4 Picasso (II))
 - Unlocking the belt system left and right (C4 Picasso (II))
 - Emptying/filling the diesel exhaust fluid tank (Berlingo (III), C3 (III))
 - Initializing the energy accumulator (Berlingo (III),)
 - Adapting the crankshaft/camshaft (C3 (III),)
 - Resetting learned values of the automatic transmission (C4 (II))
 - Resetting learned values of the automatic transmission upon replacement (C4 Picasso (II))
 - Resetting learned values of the transmission ECU (C4)
 - Initializing the engine components (Jumpy (III))
 - Replacing engine parts (Berlingo (III), C3 (III))
 - Initializing the particulate filter upon replacement (Berlingo (III), C3 (III))
 - Regenerating the particulate filter (Berlingo (III), C3 (III))
 - Initializing the lane departure warning system (C4, C4 (II), C5, C5 (III), C6, DS4, Jumper (III))
 - Reactivating the automatic start/stop (Berlingo (III), C3 (III))
 - Saving the automatic transmission actuator (C4 Picasso)
 - Saving the turbo stops (Berlingo (III), C3 (III))
- | **Codings**
 - Coding the ABS/ESP ECU (C6)
 - Coding the additive quantity (C4 Cactus, DS3)



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Coding the battery rating (C3 (III), C3 Picasso, C4 (II), C4 Picasso (II), C4 Cactus, DS4, DS5)

Coding the injectors (Berlingo (III), C3 (III))

Coding the intrusion monitoring sensor (C4 Picasso (II))

Coding the reference height (C4)

Coding the alarm horn tone type in case of activation (C4 Picasso (II))

| Service reset

Resetting the oil wear value (DS3, DS5)

| Test functions

Performing the compression test (Berlingo (III), C3 (III))

Performing the pressure build-up/drop test for the fuel pressure (Berlingo (III), C3 (III))

Performing the injector cutoff test (Berlingo (III), C3 (III))



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Fiat

Trouble codes	500, 500X, Bravo, Doblo, Ducato, Ducato (FL), Linea, Punto (Evo), Strada
Parameters	500, 500X, Bravo, Doblo, Ducato, Ducato (FL), Linea, Punto (Evo), Strada
Actuators	500, 500X, Bravo, Doblo, , Linea, Punto (Evo), Strada
Basic settings	Initializing the EGR valve upon replacement (500X) Initializing the intake manifold upon replacement (500X) Initializing the brake-pressure sensor upon replacement (500X) Initializing the particulate filter differential pressure sensor upon replacement (500X) Initializing the rpm sensor upon replacement (500X) Registering the neutral position signal (500, Doblo, Punto (Evo)) Calibrating the front camera (500X) Initializing the alternator upon replacement (500X) Bleeding the transmission clutch (Ducato, Ducato (FL)) Initializing the fuel pressure sensor upon replacement (500X) Initializing the crankshaft sensor upon replacement (500X) Initializing the boost control solenoid valve upon replacement (500X) Initializing the oxygen sensor upon replacement (500X) Initializing the steering angle sensor (500X, Doblo,) Calibrating the steering angle sensor (Doblo, Ducato (FL)) Initializing the mass airflow sensor upon replacement (500X) Performing the zero position of self-learned functions (Ducato (FL)) Initializing the oxidation catalyst upon replacement (500X) Initializing the particulate filter upon replacement (500X) Self-adjustment of band end (Ducato (FL)) Self-locking function of transmission clutch (Ducato (FL)) Calibrating the lane departure warning system camera (Ducato (FL)) Calibrating the electronic climate control actuator (500X) Initializing the timing chain upon replacement (500X) Performing the wheel speed sensor test (500X) Deactivating the transport mode (500X) Initializing the turbocharger upon replacement (500X) Negative pressure buildup of transmission (Ducato, Ducato (FL)) De/activating the parking brake service mode ABS (500X)



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| Codings

Coding the trailer hitch (500X)
Coding the instrument cluster (Bravo)

| Service reset

Oil quality reset (Strada)
Resetting the oil change interval (500X, Strada)
Performing the service reset (Bravo, Linea, Strada)
Battery change warning (Doblo, Punto (Evo))



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Ford

- | **Actuators** Mondeo (V), Tourneo Connect (III), Transit (IX)

- | **Basic settings**
 - Adapting the ABS hydraulic system (Fiesta (VI, VII))
 - Bleeding the ABS/DSC hydraulic unit (Tourneo Connect (III))
 - Initializing the brake-pressure sensor (Tourneo Connect (III))
 - Correcting the EPS straight-ahead position (Fiesta (VI))
 - Initializing the yaw rate sensor (Fiesta (VI))
 - Initializing the longitudinal acceleration sensor (Fiesta (VI), Tourneo Connect (III))
 - Initializing the steering angle sensor (Fiesta (VI), Tourneo Connect (III))
 - Resetting learned values of the ABS control unit (Fiesta (VI), Tourneo Connect (III))
 - Resetting learned values of the exhaust-gas temperature sensor (Tourneo Connect (III))
 - Resetting learned values of the EGR valve (Tourneo Connect (III))
 - Resetting learned values of the battery sensor (Mondeo (V), Tourneo Connect (III))
 - Resetting learned values of the differential pressure sensor of the diesel particulate filter (Tourneo Connect (III))
 - Resetting learned values of injector (Tourneo Connect (III))
 - Resetting learned values of injectors 1 to 4 (Tourneo Connect (III))
 - Resetting learning values of fuel pressure sensor (Tourneo Connect (III))
 - Resetting learned values of the oxygen sensor (Tourneo Connect (III))
 - Resetting learned values of the mass airflow sensor (Tourneo Connect (III))
 - Resetting learned values of the engine ECU (Fiesta (VI), Tourneo Connect (III))
 - Resetting learned values of the diesel particulate filter (Tourneo Connect (III))
 - Resetting learned values of the intake manifold flap (Tourneo Connect (III))
 - Resetting learned values of variable turbocharger (Tourneo Connect (III))
 - Adapting the lateral acceleration sensor (Tourneo Connect (III))
 - Activating/calibrating the tire pressure sensors (Mondeo (V), Tourneo Connect (III))
 - Regenerating the particulate filter (Tourneo Connect (III), Transit (IX))
 - Initializing the power windows (Mondeo (V), Tourneo Connect (III))
 - Initializing the wiper motor (Tourneo Connect (III))
 - Initializing the tilt/slide sunroof (Mondeo (V), Tourneo Connect (III))
 - Resetting the warning light "Water in fuel" (Tourneo Connect (III))

- | **Codings** Coding the injectors (Tourneo Connect (III))

- | **Service reset** Performing the manual service reset (Mondeo (V), Tourneo Connect (III))



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Honda

- | **Trouble codes** City, Civic, CR-V, CR-Z Hybrid, HR-V, Jazz
- | **Parameters** City, Civic, CR-V, HR-V
- | **Basic settings** Initializing the intake air control valve (HR-V)
 Initializing the particulate filter differential pressure sensor (CR-V, HR-V)
 Initializing the differential pressure sensor of low pressure EGR valve (HR-V)
 Calibrating the parking brake (HR-V)
 Calibrating the camera (dynamic) (HR-V)
 Calibrating the camera (static) (Civic, HR-V)
 Initializing the oxygen sensor (HR-V)
 Resetting learned values of the diesel particulate filter (CR-V, HR-V)
 Initializing the mass airflow sensor (HR-V)
 Regenerating the particulate filter (CR-V, HR-V)
 Performing the service mode of rear brake (HR-V)
- | **Codings** Coding the injectors (CR-V)



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Hyundai

Trouble codes	i10, i20, i40, ix20, Genesis, Santa Fe, Sonata, Tucson (II), Veloster
Parameters	i10, i20, i40, ix20, Tucson (II), Veloster
Actuators	i20, i40, ix20, Santa Fe, Tucson (II), Veloster
Basic settings	Calibrate ASP (i20, i40, ix20) Initializing the transmission ECU (ix20) Calibrating the camera (dynamic) (Genesis, Tucson (II)) Calibrating the camera (static) (Genesis, Sonata, Tucson (II)) Performing the compression test (Tucson (II)) Calibrating the steering angle sensor (i20, i40, Tucson (II)) Resetting learned values of the ABS control unit (Tucson (II)) Resetting learned values of the four-wheel drive ECU (Tucson (II)) Resetting learned values of the transmission ECU (Tucson (II), Veloster) Resetting learned values of the engine ECU (Tucson (II)) Resetting learning values of the tire pressure check (Tucson (II), Veloster) Resetting learned values of the lane departure warning (Tucson (II)) Initializing the engine ECU (i20, ix20)
Codings	Coding the injectors (Tucson (II)) Coding the wheel valves (i10, i40, ix20, Santa Fe, Tucson (II), Veloster)

Jaguar

Trouble codes	X 150 XK, X 250 XF, X 350 XJ, X 760 XE, X 152 F-Type, X 200 S-Type, X 202 S-Type, X 351 new XJ, X 400 X-Type
Parameters	X 250 XF, X 350 XJ, X 760 XE, X 200 S-Type
Basic settings	Initializing the throttle valve actuator (X 760 XE) Resetting learned values of the powertrain control module (X 760 XE) Performing tank leak diagnosis (X 250 XF,) De/activating the parking brake service mode ABS (X 760 XE)
Codings	Coding the battery registration (X 760 XE) Replacing the tire pressure sensor (X 760 XE)
Service reset	Performing the service reset (X 250 XF, X 350 XJ, X 200 S-Type)



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Jeep

Trouble codes	Commander, Compass, Grand Cherokee, Cherokee, Renegade, Wrangler
Parameters	Commander, Compass, Grand Cherokee, Cherokee, Renegade, Wrangler
Actuators	Commander, Grand Cherokee, Cherokee, Renegade, Wrangler
Basic settings	Initializing emission-related components upon replacement (Grand Cherokee, Cherokee) Bleeding the ABS hydraulic unit (Grand Cherokee) Adapting the differential (Grand Cherokee) Adapting the transmission clutch (Renegade) Adapting the solenoid valve (Cherokee) Initializing the EGR valve upon replacement (Renegade) Initializing the intake manifold upon replacement (Renegade) Initializing the brake-pressure sensor (Grand Cherokee) Calibrating the brake-pressure sensor (Renegade) Initializing the particulate filter differential pressure sensor upon replacement (Cherokee, Renegade) Bleeding the differential (Cherokee) Initializing the rpm sensor upon replacement (Renegade) Initializing the throttle valve (Grand Cherokee) Initializing the injector upon replacement (Cherokee) Resetting the release counter of the transfer case ECU (Cherokee) Calibrating the front camera (Renegade) Calibrating the front camera dynamically (Grand Cherokee, Cherokee) Initializing the alternator upon replacement (Renegade) Calibrating the liftgate (Cherokee, Renegade) Initializing the air conditioning flap actuator (Grand Cherokee, Renegade) Deleting learned values of the fuel pressure sensor (Cherokee) Initializing the fuel pressure sensor upon replacement (Renegade) Initializing the crankshaft sensor upon replacement (Renegade) Initializing the boost control solenoid valve upon replacement (Renegade) Initializing the oxygen sensor upon replacement (Grand Cherokee, Cherokee, Renegade) Initializing the steering angle sensor (Cherokee, Renegade) Resetting learned values of the differential pressure sensor of the diesel particulate filter (Grand Cherokee) Resetting learned values of high beam assist ECU (Commander, Grand Cherokee) Resetting learned values of the transmission ECU (Grand Cherokee, Cherokee) Resetting instrument cluster adaptation values (Grand Cherokee)



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Resetting learned values of the oxygen sensor (Grand Cherokee)
Resetting learned values of the mass airflow sensor (Grand Cherokee)
Resetting learned values of the oxidation catalytic converter (Grand Cherokee, Cherokee)
Resetting learned values of the rain/light sensor (Commander)
Resetting learned values of the diesel particulate filter (Grand Cherokee)
Resetting learned values of control module of final drive (Compass)
Resetting learned values of the door ECU FR and FL (Grand Cherokee, Wrangler)
Deleting learned values of the transfer case (Grand Cherokee)
Calibrating the headlight leveling (Cherokee)
Initializing the mass airflow sensor upon replacement (Cherokee, Renegade)
Initializing the engine ECU upon replacement (Cherokee)
Initializing the neutral position of powertrain control module (Cherokee)
Initializing the oxidation catalyst upon replacement (Renegade)
Initializing the particulate filter upon replacement (Cherokee, Renegade)
Performing a self-test on the instrument cluster (Grand Cherokee)
Calibrating the actuator for headlight height adjustment (Grand Cherokee)
Initializing the timing chain upon replacement (Renegade)
Performing the wheel speed sensor test (Renegade)
Deactivating the transport mode (Grand Cherokee, Cherokee, Renegade)
Initializing the turbocharger upon replacement (Renegade)
De/activating the parking brake service mode ABS (Renegade)
De/activating the parking brake service mode (Cherokee)

| Codings

Coding the trailer hitch (Renegade)
Resetting the oil change interval (Grand Cherokee)
Coding the tire pressure monitoring system (Grand Cherokee)
Coding the tire type (Grand Cherokee)
Coding the language version of the instrument cluster (Grand Cherokee)

| Service reset

Resetting the oil wear value (Grand Cherokee, Renegade)

| Test functions

Performing the tire pressure sensor test (Grand Cherokee)



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Kia

Trouble codes	Cee ´ d, Optima, Pro Cee ´ d, Sorento, Soul
Parameters	Cee ´ d, Optima, Pro Cee ´ d, Sorento
Actuators	Cee ´ d, Optima, Pro Cee ´ d, Sorento
Basic settings	<p>Initializing the EGR valve upon replacement (Soul, Cee ´ d, Pro Cee ´ d)</p> <p>Calibrate ASP (Cee ´ d, Pro Cee ´ d)</p> <p>Initializing the particulate filter differential pressure sensor upon replacement (Cee ´ d, Pro Cee ´ d)</p> <p>Initializing the throttle valve upon replacement (Cee ´ d, Pro Cee ´ d)</p> <p>Calibrating the front camera (Optima)</p> <p>Initializing the particulate filter upon replacement (Cee ´ d, Pro Cee ´ d)</p> <p>Regenerating the particulate filter (Cee ´ d, Pro Cee ´ d)</p> <p>Initializing the swirl control valve upon replacement (Cee ´ d, Pro Cee ´ d)</p> <p>Performing the compression test (Cee ´ d, Optima, Pro Cee ´ d)</p> <p>Initializing the fuel pressure sensor upon replacement (Cee ´ d, Pro Cee ´ d)</p> <p>Calibrating the steering angle sensor (Cee ´ d, Pro Cee ´ d)</p> <p>Initializing the mass airflow sensor upon replacement (Cee ´ d, Pro Cee ´ d)</p>
Codings	Coding the injectors (Cee ´ d, Optima, Pro Cee ´ d, Soul)

Lancia

Trouble codes	Delta
Parameters	Delta
Actuators	Delta
Codings	Coding the instrument cluster (Delta)
Service reset	<p>Resetting the oil change interval (Topic (II))</p> <p>Performing the service reset (Delta)</p>



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Land Rover

Trouble codes	Defender, Discovery (III), Discovery Sport, Freelander (II), Land Rover (II, III, IV), Range Rover, Range Rover (III, IV, V), Range Rover Evoque, Range Rover Sport, Range Rover Sport (IV, V)
Parameters	Defender, Discovery (III), Discovery Sport, Freelander (II), Land Rover (II, III, IV), Range Rover, Range Rover (III, IV, V), Range Rover Evoque, Range Rover Sport, Range Rover Sport (IV, V)
Actuators	Discovery Sport, Freelander (II), Land Rover (III), Range Rover (IV, V), Range Rover Evoque, Range Rover Sport (IV, V)
Basic settings	<p>Performing the leak test of high-pressure pump (Defender)</p> <p>Initializing the particulate filter differential pressure sensor upon replacement (Range Rover (V, VI), Range Rover Sport (V))</p> <p>Initializing the fuel quantity control valve (Range Rover (V, VI), Range Rover Sport (V))</p> <p>Calibrating the steering angle sensor (Discovery Sport, Range Rover (VI))</p> <p>Resetting learned values of the EGR valve (Range Rover (V, VI), Range Rover Sport (V))</p> <p>Resetting learned values of the throttle actuator (Range Rover (V, VI), Range Rover Sport (V))</p> <p>Resetting learned values of the fuel supply pump (Range Rover (V, VI), Range Rover Sport (V))</p> <p>Resetting learned values of the oxygen sensor (Range Rover (V, VI), Range Rover Sport (V))</p> <p>Resetting learned values of the oxidation catalytic converter (Range Rover (V, VI), Range Rover Sport (V))</p> <p>Resetting learned values of the powertrain control module ECU (Defender, Range Rover (V, VI), Range Rover Sport (V))</p> <p>Resetting transfer case adaptation values (Land Rover (III), Range Rover (III), Range Rover Sport, Range Rover Sport (V))</p> <p>Initializing the rain sensor (Land Rover (III), Range Rover (III), Range Rover Sport, Range Rover Sport (V))</p> <p>Regenerating the particulate filter dynamically (Defender, Discovery Sport, Range Rover (V, VI), Range Rover Sport (V))</p> <p>Initializing the particulate filter upon replacement (Defender, Range Rover (V, VI), Range Rover Sport (V))</p> <p>Calibrating the power windows of driver/passenger door (Discovery Sport)</p> <p>Initializing the sunroof (Range Rover (IV, V), Range Rover Sport (IV, V))</p> <p>Initializing the turbocharger cutoff valve (Range Rover (V, VI), Range Rover Sport (V))</p> <p>Resetting the warning light "Water in fuel" (Range Rover (V, VI), Range Rover Sport (V))</p> <p>De/activating the service mode of ABS control unit (Discovery Sport)</p>



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- | **Codings** Coding the injectors (Defender, Discovery Sport, Range Rover (V, VI), Range Rover Sport (V))
 Replacing the tire pressure sensor (Discovery Sport)
- | **Service reset** Resetting the oil wear value (Discovery Sport, Range Rover (V, VI), Range Rover Sport (V))
 Performing the service reset (Freelander (II), Range Rover Evoque)

Lexus

- | **Trouble codes** CT 200h, ES 350, GS 250, GS 300, GS 450h, GS 460, GX 470, HS 250h, IS 200, IS 200d, IS 220d, IS 250, IS 250c, IS 300, IS 300c, IS 300h, IS F, LFA, LS 400, LS 460, LS 600h, LX 470, LX 570, NX 200, NX 200t, NX 300h, RC F, RX 300, RX 350, RX 400h, RX 450h, SC 430
- | **Parameters** CT 200h, ES 350, GS 250, GS 300, GS 450h, GS 460, HS 250h, IS 200d, IS 220d, IS 250, IS 250c, IS 300, IS 300c, IS 300h, IS F, LFA, LS 460, LS 600h, LX 570, NX 200, NX 200t, NX 300h, RC F, RX 350, RX 450h

Mazda

- | **Parameters** Mazda6
- | **Basic settings** Calibrating the front camera (CX-3)
- | **Codings** Coding the service intervals (CX-5)
 Coding the engine oil monitoring function in instrument cluster (CX-5)
 Coding the tire change interval in instrument cluster (CX-5)
 Coding the tire pressure sensor (CX-5)
 Activating/deactivating the service indicator (CX-5)
- | **Service reset** Resetting the oil change interval (CX-5)
 Performing the service reset (CX-5)



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Mercedes

Trouble codes	BM117 / 156 / 176 / 205 / 212 / 221 / 222 / 415 / 447 / 906 (III)
Parameters	BM117 / 156 / 172 / 176 / 205 / 212 / 221 / 222 / 415 / 447 / 906 (III)
Actuators	BM117 / 205 / 221 / 222 / 415 / 447 / 906 (III)
Basic settings	<p>Initializing the adaptive cruise control adaptation drive cycle (BM222 / 447)</p> <p>Adapting the trailer hitch (BM205)</p> <p>Resetting the operating counter of impact mode (BM205)</p> <p>Resetting the operating counter of body control module (BM246)</p> <p>Resetting the operating counter of A/C compressor (BM205)</p> <p>Resetting the operating counter for the xenon headlights (BM117 / 156 / 176)</p> <p>Placing the electric parking brake in installation position (BM222)</p> <p>Calibrating the electric parking brake (BM222)</p> <p>Standardizing the hatchback (BM221)</p> <p>Resetting the compressor runtime of air suspension (BM205)</p> <p>Initializing the steering angle sensor manually (BM190 / 197 / 292 / 253 / 415 / 447)</p> <p>Deleting the learned values of the alarm sources of theft warning system (BM246)</p> <p>Resetting learned values of emergency brake assist (BM906 (III))</p> <p>Calibrating the multi-function camera (BM221 / 447)</p> <p>Calibrating the night vision assist (BM222)</p> <p>Performing the zero adjustment of the xenon headlights (BM117 / 156 / 176)</p> <p>Adapting the tire pressure check manually (BM117 / 156 / 164 / 166 GL + ML / 169 / 172 / 176 / 190 / 197 / 204 / 205 / 207 / 212 / 216 / 217 / 218 / 221 / 222 / 230 / 231 / 245 / 246 / 251 / 253 / 292 / 447 / X204)</p> <p>Calibrating the rearview camera (BM222)</p> <p>De-/standardizing the power windows RR and RL (BM205)</p> <p>De-/standardizing the power windows FR and FL (BM205)</p> <p>Bringing the windshield wipers in service position (BM246)</p> <p>Reading out the service tasks (BM117 / 156 / 172 / 176)</p> <p>Initializing the ECU of forward collision warning system (BM205)</p> <p>Calibrating the all-round vision camera (BM222 / 447)</p>
Service reset	<p>Resetting the diesel exhaust fluid (AdBlue) (BM156 / 172 / 176 / 246)</p> <p>Performing the manual service reset (BM205 / 230 / 415 / 447)</p> <p>Reading out the service tasks (BM156 / 172 / 176 / 246)</p> <p>Resetting the service (BM156 / 172 / 176 / 246)</p> <p>Resetting the accidentally confirmed service (BM156 / 172 / 176 / 246)</p>



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Mini

Trouble codes	Mini Cabrio, Mini Clubman (F54, R55), Mini Countryman, Mini Coupé, Mini One (F55, F56, R56), Mini Roadster, Mini Paceman
Parameters	Mini Cabrio, Mini Clubman (F54, R55), Mini Countryman, Mini Coupé, Mini One (F55, F56, R56), Mini Roadster, Mini Paceman
Actuators	Mini One (F55, F56, R56), Mini Roadster, Mini Paceman
Basic settings	Initializing the EGR valve (Mini One (F55, F56, R56)) Deleting automatic start/stop and history memory diagnostics (Mini One (F55, F56, R56)) Performing a calibration process of the flap actuator (Mini One (F55, F56, R56)) Air conditioning compressor inflow protection (Mini One (F55, F56, R56)) Bleeding the electronic stability control (Mini One (F55, F56, R56)) Calibrating camera-based advanced driver assistance systems (KaFAS) (Mini One (F55, F56, R56)) Activating the fuel pump (Mini One (F55, F56, R56)) Bleeding the fuel system (Mini One (F55, F56, R56)) Checking smooth idle operation control (Mini One (F55, F56, R56)) Initializing the steering angle sensor (Mini One (F55, F56, R56)) Resetting learned values of the exhaust system (Mini One (F55, F56, R56)) Resetting learned values of the electronic transmission control (Mini Cabrio, Mini Countryman, Mini Coupé) Resetting learned values of the fuel system (Mini One (F55, F56, R56)) Resetting learned values of the mass airflow sensor (Mini One (F55, F56, R56)) Initializing the air distribution flaps (Mini One (F55, F56, R56)) Initializing the rain/light sensor (Mini One (F55, F56, R56)) Regenerating the particulate filter (Mini One (F55, F56, R56)) De/activating the shifting speed regulation (Mini One (F55, F56, R56)) Initializing the power windows (Mini One (F55, F56, R56)) Standardizing the tilt/slide sunroof (Mini One (F55, F56, R56)) Unlocking the parking heater from fault status (Mini One (F55, F56, R56)) Resetting the start inhibitor (Mini One (F55, F56, R56)) Interchanged Electronic Stability Program check (Mini One (F55, F56, R56)) Deactivating the shop mode of parking brake (Mini One (F55, F56, R56))



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| Codings

Performing the battery registration (Mini Clubman)

Performing the energy diagnostics (Mini Cabrio, Mini Clubman)

Performing tank leak diagnosis (Mini Cabrio, Mini Clubman, Mini Countryman, Mini Coupé)

| Test functions

Performing the antenna test (Mini One (F55, F56, R56))

Performing the energy diagnostics (Mini One (F55, F56, R56))

Reading out the fuel quality sensor (Mini One (F55, F56, R56))

Performing tank leak diagnosis (Mini One (F55, F56, R56))



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Nissan

Trouble codes	Qashqai, Note, X-Trail
Parameters	Qashqai, Note, X-Trail
Actuators	Qashqai, X-Trail
Basic settings	Initializing the exhaust gas flap (Qashqai, X-Trail) Initializing the EGR valve (Qashqai) Initializing the acceleration sensor (Qashqai, X-Trail) Initializing the particulate filter differential pressure sensor (Qashqai, X-Trail) Calibrating the front camera statically (Qashqai, X-Trail) Initializing the high-pressure pump (Qashqai, X-Trail) Initializing the fuel pressure sensor (Qashqai, X-Trail) Initializing the fuel pump (Qashqai, X-Trail) Initializing the boost pressure sensor (Qashqai) Initializing the steering angle sensor (Qashqai, X-Trail) Resetting starter learned values (Qashqai, X-Trail) Initializing the air intake flap (Qashqai, X-Trail) Initializing the mass airflow sensor (Qashqai) De/activating the emergency release of parking brake (Qashqai, X-Trail) Initializing the low pressure EGR valve (Qashqai, X-Trail) Initializing the particulate filter upon replacement (Qashqai) Regenerating the particulate filter upon replacement (Qashqai, X-Trail) Regenerating the particulate filter (Qashqai, X-Trail) Initializing the swirl flap (Qashqai, X-Trail) Initializing the starter ring gear (Qashqai) Initializing the turbulence flap (Qashqai) Adapting the turbocharger (Qashqai) De/activating the parking brake service mode (Qashqai, X-Trail)
Codings	Coding the injectors (X-Trail)
Service reset	Performing the manual service reset (X-Trail)



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Opel

- | **Trouble codes** Adam, Ampera, Astra-G, Astra-J, Cascada, Combo-D, Corsa-D, Corsa-E, Insignia, Meriva-A, Meriva-B, Mokka, Tigra-B, Vectra-B, Zafira-A, Zafira-C
- | **Parameters** Meriva-A, Vectra-B, Zafira-A
- | **Basic settings** Calibrating the front camera (Ampera, Astra-J, Corsa-E, Zafira-C)
Adapting the headlight leveling (Astra-G, Meriva-A, Vectra-B, Zafira-A)
Regenerating the particulate filter (Astra-J, Corsa-D, Meriva-B)
- | **Codings** Synchronizing the remote control (Tigra-B)
Coding the radio remote control (Tigra-B)
- | **Service reset** Performing the service reset (Astra-J, Cascada, Corsa-E)

Peugeot

- | **Parameters** 108, 206, 207, 208, 301, 308, 308 (T9), 407, 508, 807, 2008, 3008, 4007, 5008, Bipper, Boxer (III), Expert (III), Partner (III), RCZ
- | **Actuators** 108, 206, 207, 208, 301, 308, 308 (T9), 407, 408, 508, 807, 2008, 3008, 4007, 5008, Bipper, Boxer (III), Expert (III), Partner (III), RCZ
- | **Codings** Coding the additive quantity (208, 2008, 3008, 5008)
Coding the alarm horn tone type in case of activation (208, 301, 308 (T9), 2008)
Coding the battery rating (Expert (III), Partner (III))
Coding the remote control (206)
Coding the injectors (207, 208, 301, 308, 308 (T9), 508, 2008, 3008, 5008, Expert (III), Partner (III))
Coding the courtesy lights (208, 301, 308 (T9), 2008)
Coding the keys (206, Boxer (III),)
Coding the readings (Partner (III))
- | **Service reset** Resetting learned values of the oil quality (308, 508, Bipper, Expert (III))
- | **Test functions** Performing the pressure build-up/drop test for the fuel pressure (3008)
Performing the injector cutoff test (3008)
Performing the compression test (3008)



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Porsche

| Trouble codes

911, 911 Carrera, 911 Carrera 4, 911 Carrera 4S, 911 Carrera S, 911 GT3, 911 GT3 RS, 911 Turbo, 911 Turbo S, Boxster, Boxster GTS Boxster S, Boxster Spyder, Cayenne, Cayenne GTS, Cayenne S, Cayenne S Hybrid, Cayenne Turbo, Cayenne Turbo S, Cayman, Cayman GT4, Cayman GTS, Cayman S, Macan, Macan GTS, Panamera, Panamera 4, Panamera 4S, Panamera GTS, Panamera S, Panamera S Hybrid, Panamera Turbo, Panamera Turbo S

| Parameters

911, 911 Carrera, 911 Carrera 4S, 911 Carrera S, 911 GT3, 911 GT3 RS, 911 Turbo, 911 Turbo S, Boxster, Boxster GTS Boxster S, Boxster Spyder, Cayenne, Cayenne GTS, Cayenne S, Cayenne S Hybrid, Cayenne Turbo, Cayenne Turbo S, Cayman, Cayman GT4, Cayman GTS, Cayman S, Macan, Macan GTS, Panamera, Panamera 4, Panamera 4S, Panamera GTS, Panamera S, Panamera S Hybrid, Panamera Turbo, Panamera Turbo S

| Actuators

911, 911 Carrera, 911 Carrera 4, 911 Carrera 4S, 911 Carrera S, 911 GT3, 911 GT3 RS, 911 Turbo, 911 Turbo S, Boxster, Boxster GTS Boxster S, Boxster Spyder, Cayenne, Cayenne GTS, Cayenne S, Cayenne S Hybrid, Cayenne Turbo, Cayenne Turbo S, Cayman, Cayman GT4, Cayman GTS, Cayman S, Macan, Macan GTS, Panamera, Panamera 4, Panamera 4S, Panamera GTS, Panamera S, Panamera S Hybrid, Panamera Turbo, Panamera Turbo S

| Basic settings

Initializing the adaptive cruise control sensor (911, Boxster, Cayenne, Cayman, Macan, Panamera)

Adapting the throttle valves (911 Carrera, 911 Carrera 4, 911 Carrera 4S, 911 Carrera S, 911 GT3, 911 GT3 RS, 911 Turbo, 911 Turbo S, Boxster, Boxster GTS Boxster S, Boxster Spyder, Cayenne, Cayenne GTS, Cayenne S, Cayenne S Hybrid, Cayenne Turbo, Cayenne Turbo S, Cayman, Cayman GT4, Cayman GTS, Cayman S, Macan, Macan GTS, Panamera, Panamera 4, Panamera 4S, Panamera GTS, Panamera S, Panamera S Hybrid, Panamera Turbo, Panamera Turbo S)

Calibrating the front camera (911, Boxster, Cayenne, Cayman, Macan, Panamera)

Adapting the radiator shutter (Macan)



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Renault

Trouble codes	Espace (IV, V), Fluence, Kadjar
Parameters	Espace (IV, V), Fluence, Kadjar
Actuators	Espace (IV, V), Fluence, Kadjar
Basic settings	Initializing the exhaust gas flap (Kadjar) Initializing the low setting of the exhaust flap (Fluence) Initializing the exhaust gas back pressure sensor (Fluence) Bleeding the ABS hydraulic unit (Kadjar) Adapting the oxygen sensor (Espace (IV),) Initializing the EGR bypass solenoid valve (Espace (IV, V),) Initializing the EGR valve (Espace (V), Fluence, Kadjar) Initializing the intake-air flap (Fluence) Initializing the exhaust camshaft sensor (Kadjar) Resetting the operating counter of the high-pressure pump (Espace (V)) Initializing the particulate filter differential pressure sensor (Espace (IV, V), Fluence, Kadjar) Initializing the throttle stop (Kadjar) Adapting the injection pump pressure regulation (Fluence) Performing the basic setting of the engine adjustment (Fluence) Initializing the intake camshaft sensor (Kadjar) Adapting the injection pump (Espace (V), Fluence, Kadjar) Initializing the ride height sensor (Espace (V)) Calibrating the front camera statically (Espace (V), Kadjar) Initializing the catalyst (Espace (V), Kadjar) Initializing the knock sensor (Fluence) Initializing the fuel pressure sensor (Espace (IV, V), Kadjar) Initializing the fuel quantity control valve of injection pump (Fluence) Activating the fuel pump (Fluence) Resetting the learned value of injectors (Fluence) Resetting the learned value of fuel pressure sensor (Fluence) Resetting the learned value of the air intake flap in case of malfunction (Fluence) Initializing the boost pressure control valve (Kadjar) Initializing the boost pressure sensor (Fluence) Initializing the oxygen sensor (Espace (V), Fluence, Kadjar) Calibrating the steering angle sensor (Espace (V), Kadjar) Resetting learned values of the EGR valve (Espace (IV), Fluence) Deleting learned values of the pressure-regulating valve (Fluence)



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Resetting learned values of fuel injector of particulate filter (Fluence)
Resetting learned values of mixture regulation of the injectors upon replacement (Kadjar)
Initializing the air intake flap (Espace (IV, V), Fluence, Kadjar)
Initializing the mass airflow sensor (Espace (IV), Fluence, Kadjar)
Adapting the low-pressure EGR valve (Fluence, Kadjar)
Initializing the camshaft sensor (Fluence)
Initializing the cam phaser solenoid valve (Kadjar)
Initializing the steering angle sensor position (Espace (V), Kadjar)
Initializing the particulate filter upon replacement (Fluence, Kadjar)
Regenerating the particulate filter upon replacement (Espace (IV, V), Fluence)
Regenerating the particulate filter (Espace (IV, V), Kadjar)
Initializing the swirl flap (Espace (V), Fluence, Kadjar)
Initializing the starter ring gear (Espace (IV, V), Fluence, Kadjar)
Adapting the electric circuit of injector (Fluence)
Adapting the turbocharger (Fluence)
De/activating the parking brake service mode (Espace (V), Kadjar)

| Codings

Locking/unlocking the airbag ECU (Espace (V), Kadjar)
De/activating the trailer hitch (AHK) (Espace (V), Kadjar)
Coding the parking assist (Kadjar)
Coding the trailer stability program (Espace (V))
Coding the injectors (Espace (IV, V), Fluence, Kadjar)
Coding units of measure (Espace (V), Kadjar)
Coding the language version of the instrument cluster (Espace (V), Kadjar)
Coding the speedometer index (Espace (V), Kadjar)

| Service reset

Performing the manual service reset (Espace (V), Kadjar)



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Seat

- | **Trouble codes** Alhambra (71), Altea (5P), Ibiza (6J, 6P), Leon (5F, 1P), Toledo (KG)
- | **Parameters** Alhambra (71), Ibiza (6P), Leon (5F), Toledo (KG)
- | **Actuators** Alhambra (71), Ibiza (6P), Leon (5F), Toledo (KG)
- | **Basic settings**
 - Adapting the exhaust gas back pressure sensor (Alhambra (71), Leon (5F), Toledo (KG))
 - Adapting the additive system (Alhambra (71))
 - Initializing the brake-pressure sensor (Alhambra (71))
 - Calibrating the distance control (Toledo (KG))
 - Retracting/extending the parking brake (Alhambra (71))
 - Initial run-in of air conditioning compressor (Ibiza (6P))
 - Performing the EGR basic setting (Alhambra (71), Ibiza (6P), Leon (5F), Toledo (KG))
 - Performing the basic setting of the brake-pressure sensor (Toledo (KG))
 - Performing the throttle valve basic setting (Alhambra (71), Ibiza (6P), Leon (5F), Toledo (KG))
 - Performing the basic setting of ESP sensor system (Alhambra (71), Ibiza (6P), Toledo (KG))
 - Performing the basic setting of the air conditioning (Ibiza (6P), Toledo (KG))
 - Performing the steering angle sensor basic setting (Ibiza (6P), Leon (5F))
 - Performing the basic setting of the swirl flap (Ibiza (6P), Toledo (KG))
 - Performing the basic setting of the turbocharger (Alhambra (71), Ibiza (6P), Leon (5F), Toledo (KG))
 - Bleeding the cooling system (Alhambra (71), Ibiza (6P), Leon (5F), Toledo (KG))
 - Resetting learned values of the fuel system (Ibiza (6P), Leon (5F), Toledo (KG))
 - Resetting learned values of the oxygen sensor (Ibiza (6P), Leon (5F), Toledo (KG))
 - Resetting learned values of the engine ECU (Alhambra (71))
 - Adapting the diesel particulate filter (Alhambra (71), Ibiza (6P), Leon (5F), Toledo (KG))
 - Regenerating the particulate filter (Alhambra (71), Ibiza (6P), Leon (5F), Toledo (KG))
 - Initializing the headlights (Toledo (KG))
 - Aiming headlights with/without dynamic light control (DLA) (Ibiza (6P))
 - Adapting the turbocharger actuator (Altea (5P), Ibiza (6J), Leon (1P), Toledo (KG))
- | **Codings**
 - Coding the trailer recognition (Alhambra (71), Altea (5P), Ibiza (6J), Leon (1P), Toledo (5P))
 - Coding the trailer hitch (AHK) (Ibiza (6P), Toledo (KG))
 - Performing the battery registration (Ibiza (6P), Toledo (KG))
 - Coding the expert mode of ECUs (Ibiza (6P), Toledo (KG))
 - Adapting the advanced driver assistance system to trailer hitch (Toledo (KG))
 - Coding the gateway installation list (Ibiza (6P), Toledo (KG))
 - De/activating the cruise control (Ibiza (6P), Toledo (KG))



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- Coding the injectors (Alhambra (71), Ibiza (6P), Leon (5F), Toledo (KG))
- Coding the parking assist volume (Ibiza (6P), Toledo (KG))
- Coding the rain/light sensor automatically (Alhambra (71), Altea (5P), Leon (5F, 1P))
- Coding the rain/light sensor manually (Alhambra (71), Altea (5P), Leon (1P))
- Coding the language version of the instrument cluster (Ibiza (6P), Toledo (KG))
- Coding ECUs upon replacement (Ibiza (6P), Toledo (KG))
- De/activating the transport mode (Ibiza (6P), Toledo (KG))

- | **Service reset** Performing the service reset (Ibiza (6P), Toledo (KG))

- | **Test functions** Checking smooth idle operation control (Leon (5F))



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Skoda

- | **Trouble codes** Fabia (54, NJ), Octavia (5E, 1Z), Rapid (NH), Roomster (5J), Superb (3V), Yeti (5L)
- | **Parameters** Fabia (NJ), Octavia (5E), Rapid (NH), Superb (3V), Yeti (5L)
- | **Actuators** Fabia (NJ), Octavia (5E), Rapid (NH), Superb (3V), Yeti (5L)
- | **Basic settings**
 - Adapting the exhaust gas back pressure sensor (Octavia (5E), Rapid (NH), Yeti (5L))
 - Adapting the additive system (Superb (3V))
 - Calibrating the distance control (Fabia (NJ), Rapid (NH), Superb (3V))
 - Performing the initial run-in of the air conditioning compressor (Superb (3V))
 - Retracting/extending the parking brake (Superb (3V))
 - Calibrating the front camera (Superb (3V))
 - Performing the EGR basic setting (Octavia (5E), Rapid (NH), Superb (3V), Yeti (5L))
 - Performing the basic setting of the brake-pressure sensor (Rapid (NH), Superb (3V))
 - Performing the throttle valve basic setting (Superb (3V))
 - Performing the basic setting of ESP sensor system (Fabia (NJ), Rapid (NH), Superb (3V))
 - Performing the basic setting of the air conditioning (Rapid (NH), Superb (3V))
 - Performing the steering angle sensor basic setting (Fabia (NJ), Octavia (5E), Superb (3V))
 - Performing the basic setting of the swirl flap (Rapid (NH))
 - Performing the basic setting of the turbocharger (Octavia (5E), Rapid (NH), Superb (3V), Yeti (5L))
 - Bleeding the cooling system (Octavia (5E), Rapid (NH), Superb (3V), Yeti (5L))
 - Resetting learned values of the fuel system (Octavia (5E), Rapid (NH))
 - Resetting learned values of the oxygen sensor (Octavia (5E), Rapid (NH))
 - Resetting learned values of the engine ECU (Superb (3V), Yeti (5L))
 - Activating the retrofitted parking heater (Superb (3V))
 - Adapting the diesel particulate filter (Octavia (5E), Rapid (NH), Superb (3V), Yeti (5L))
 - Regenerating the particulate filter (Rapid (NH), Superb (3V), Octavia (5E), Yeti (5L))
 - Adjusting the headlight (Rapid (NH))
 - Aiming headlights with/without dynamic light control (DLA) (Superb (3V))
 - Adapting the turbocharger actuator (Fabia (54), Octavia (1Z), Rapid (NH), Roomster (5J), Yeti (5L))
- | **Codings**
 - Coding the trailer hitch (AHK) (Rapid (NH), Superb (3V))
 - Performing the battery registration (Rapid (NH), Superb (3V))
 - Coding the expert mode of ECUs (Rapid (NH), Superb (3V))
 - Adapting the advanced driver assistance system to trailer hitch (Rapid (NH), Superb (3V))
 - Coding the gateway installation list (Rapid (NH), Superb (3V))
 - Coding the cruise control (Rapid (NH), Yeti (5L))



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Coding the injectors (Octavia (5E), Rapid (NH), Superb (3V), Yeti (5L))
Coding the parking assist volume (Rapid (NH), Superb (3V))
Coding the rain/light sensor automatically/manually (Octavia (5E))
Coding the language version of the instrument cluster (Rapid (NH), Superb (3V))
Coding ECUs upon replacement (Rapid (NH), Superb (3V))
De/activating the transport mode (Rapid (NH), Superb (3V))

| **Service reset** Performing the service reset (Rapid (NH), Superb (3V))

| **Test functions** Checking smooth idle operation control (Octavia (5E), Superb (3V))

Smart

| **Trouble codes** 453

| **Parameters** 453

| **Actuators** 453

| **Basic settings** Initializing the acceleration sensor (453)
Initializing the throttle valve (453)
Initializing the crankshaft sensor (453)
Initializing the oxygen sensor (453)
Resetting learned values of the ABS/ESP control unit (453)
Initializing the steering angle sensor (453)
Adapting the multifunction camera (453)
Initializing tire pressure sensors (MC 451, 451 Electro)
Initializing tire pressure sensors manually (453)
Initializing the starter (453)

| **Codings** Coding the wheel valves (453)



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SsangYong

Trouble codes	Korando, Kyron, Rexton (II), Rodius
Parameters	Korando, Kyron, Rexton (II), Rodius
Actuators	Korando, Kyron, Rexton (II), Rodius
Basic settings	Bleeding the ABS/DSC hydraulic unit (Korando, Kyron, Rexton (II), Rodius) Initializing the lateral/longitudinal acceleration sensor (Korando, Kyron, Rexton (II), Rodius) Initializing the brake-pressure sensor (Korando, Kyron, Rexton (II), Rodius)

Suzuki

Trouble codes	Grand Vitara
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Toyota

Trouble codes	Auris Hybrid, Avensis, Aygo, Camry, Corolla, Corolla Verso, GT86, Hiace, Highlander, Hilux, iQ, Land Cruiser, MR2, Prius, Prius+, RAV4, Sienna, Verso, Verso-S, Yaris Hybrid
Parameters	Auris Hybrid, Avensis, Aygo, Camry, Corolla, Corolla Verso, GT86, Hiace, Highlander, Hilux, iQ, Land Cruiser, MR2, Prius, Prius+, RAV4, Sienna, Verso, Verso-S, Yaris Hybrid
Actuators	Avensis, GT86, Hilux, RAV4, Yaris Hybrid
Basic settings	Initializing the throttle valve (Aygo) Performing the basic setting of the automated manual transmission (tAygo, Corolla) Initializing the high-pressure pump (Hilux) Initializing the air conditioning actuators (Auris Hybrid, Avensis, Camry, Corolla, Corolla Verso, GT86, iQ, Land Cruiser, Prius, Prius+, RAV4, Sienna, Verso, Verso-S, Yaris) Performing the compression test (Avensis, Yaris Hybrid, GT86, Hilux, RAV4) Initializing the fuel pressure regulator (Hilux) Regenerating the particulate filter (Hilux) Calibrating the lane departure warning system camera (Highlander, Prius+, RAV4)
Codings	Coding the injectors (Hilux) Coding the courtesy lights (GT86) Coding the comfort closing system (GT86) Coding the remote control volume (GT86) Coding the wheel valves (GT86)



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Volkswagen

Trouble codes	Beetle (5C), Caddy (2C/2K/SA), Golf 6 (51/52/5K/AJ), Golf 6 Cabriolet (51), Golf 7 (5G/AM/BA), Jetta (16, 1K), Passat (3G), Polo (6C, 6R), Scirocco (13), Sharan (7N), T5 (7E/7F), T6 (SF/SG), Tiguan (5N), Touran (1T, 5T)
Parameters	Beetle (5C), Caddy (2C/2K/SA), Golf 6 Cabriolet (51), Golf 7 (5G/AM/BA), Jetta (16), Passat (3G), Polo (6C), Scirocco (13), Sharan (7N), T6 (SF/SG), Tiguan (5N), Touran (5T)
Actuators	Beetle (5C), Caddy (2C/2K/SA), Golf 6 Cabriolet (51), Golf 7 (5G/AM/BA), Jetta (16), Polo (6C), Passat (3G), Scirocco (13), Sharan (7N), T6 (SF/SG), Tiguan (5N), Touran (5T)
Basic settings	
Codings	<p>Coding the trailer recognition (Amarok (2H), Caddy (2C/SA), CC (35), Eos (1F), Golf 6 (51/52/5K/AJ), Jetta (16), Passat (3G), Polo (6R), Sharan (7N), T5 (7E/7F), T6 (SF/SG), Tiguan (5N), Touran (1T))</p> <p>De/activating the trailer hitch (AHK) (Caddy (SA), T6 (SF/SG), Touran (5T))</p> <p>Performing the battery registration (Caddy (SA), T6 (SF/SG), Touran (5T))</p> <p>Coding the expert mode of ECUs (Caddy (SA), T6 (SF/SG), Touran (5T))</p> <p>Adapting the advanced driver assistance system to trailer hitch (Caddy (SA), T6 (SF/SG), Touran (5T))</p> <p>Coding the gateway installation list (Caddy (SA), T6 (SF/SG), Touran (5T))</p> <p>Coding the cruise control (Caddy (2C/2K), Golf 6 Cabriolet (51), Polo (6C), Scirocco (13), Sharan (7N), Tiguan (5N))</p> <p>Coding the injectors (Beetle (5C), Caddy (2C/2K/SA), Golf 6 Cabriolet (51), Golf 7 (5G/AM/BA), Jetta (16, 1K), Passat (3G), Polo (6C), Scirocco (13), Sharan (7N), T6 (SF/SG), Tiguan (5N), Touran (5T))</p> <p>Coding the parking assist volume (Caddy (SA), T6 (SF/SG), Touran (5T))</p> <p>Coding the rain/light sensor automatically/manually (Golf 7 (5G/AM/BA), Passat (3G), Polo (6C), Sharan (7N))</p> <p>Coding the language version of the instrument cluster (Caddy (SA), T6 (SF/SG), Touran (5T))</p> <p>Coding ECUs upon replacement (Caddy (SA), T6 (SF/SG), Touran (5T))</p> <p>De/activating the transport mode (Caddy (SA), T6 (SF/SG), Touran (5T))</p>
Service reset	Performing the service reset (Caddy (SA), T6 (SF/SG), Touran (5T))
Test functions	Checking smooth idle operation control (Golf 7 (5G/AM/BA), Passat (3G))



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Volvo

Trouble codes	C30 (I), C70 (II), S40 (II), S60, S80 (II), V40, V50 (I), V60, V70 (II + III), XC60, XC70 (III)
Parameters	C30 (I), C70 (II), S40 (II), S60, S80 (II), V40, V50 (I), V60, V70, V70 (III), XC60, XC70 (III)
Actuators	C30 (I), C70 (II), S40 (II), V40, V50 (I), V70, V70 (III), XC60, XC70 (III)
Basic settings	Resetting learned values of the engine ECU (S60, V60, XC70 (III)) Calibrating the ride height sensor (C30 (I), C70 (II), S40 (II), V50 (I)) Resetting learned values of the EGR valve (C30 (I), S40 (II), V50 (I)) Resetting learned values of the throttle valve (C30 (I), S40 (II), V50 (I)) Resetting learned values of the injector (C30 (I), S40 (II), V50 (I)) Resetting learned values of the fuel system (C30 (I), S40 (II), V50 (I)) Resetting learned values of the waste gate valve (C30 (I), S40 (II), V50 (I)) Resetting learned values of the oil aging counter (C30 (I), C70 (II), S40 (II), S60, S80 (II), V40, V50 (I), V60, V70, V70 (III), XC60, XC70 (III)) Resetting learned values of the diesel particulate filter (C30 (I), S40 (II), V50 (I)) Regenerating the particulate filter (V40) Performing the tank leak check (C30 (I), C70 (II), S60, S60 (I), V60, XC70 (III), XC90)



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Tabular overview of the update version 49

Supplementations and new functions							
Manufacturer	Trouble codes	Parameters	Actuators	Basic settings	Codings	Service reset	Test function
Alfa Romeo	●	●	●	●	●	●	●
Audi	●	●	●	●	●	●	●
BMW	●	●	●	●	●	●	●
Chevrolet	●	●	●	●	●	●	●
Citroën	●	●	●	●	●	●	●
Fiat	●	●	●	●	●	●	●
Ford	●	●	●	●	●	●	●
Honda	●	●	●	●	●	●	●
Hyundai	●	●	●	●	●	●	●
Jaguar	●	●	●	●	●	●	●
Jeep	●	●	●	●	●	●	●
Kia	●	●	●	●	●	●	●
Lancia	●	●	●	●	●	●	●
Land Rover	●	●	●	●	●	●	●
Lexus	●	●	●	●	●	●	●
Mazda	●	●	●	●	●	●	●
Mercedes	●	●	●	●	●	●	●
Mini	●	●	●	●	●	●	●
Nissan	●	●	●	●	●	●	●
OBD	●	●	●	●	●	●	●
Opel	●	●	●	●	●	●	●
Peugeot	●	●	●	●	●	●	●
Porsche	●	●	●	●	●	●	●
Renault	●	●	●	●	●	●	●



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Supplementations and new functions							
Manufactu- rer	Trouble codes	Parameters	Actuators	Basic settings	Codings	Service reset	Test function
Seat	●	●	●	●	●	●	●
Skoda	●	●	●	●	●	●	●
Smart	●	●	●	●	●	●	●
SsangYong	●	●	●	●	●	●	●
Suzuki	●	●	●	●	●	●	●
Toyota	●	●	●	●	●	●	●
Volkswagen	●	●	●	●	●	●	●
Volvo	●	●	●	●	●	●	●

Symbols: ● New data/function ● Complemented data/function ● Existing data/function ● Data/function not present