

V70

Additions And Modifications In Software Version 70

Things To Know – An Overview

With version 70 Hella Gutmann provides once more valuable data and facts. This applies not only to the diagnostic functions in the mega macs; the contents and scope of vehicles covered is also being continuously adapted for the fields of ADAS, Lighting and e-Mobility.

News and Corrections

- | Revision of various info messages
- | Sporadic program crash removed when repading out parameters of Opel Astra K models
- | [WLAN IPV4] Actualization function of IP address revised
- | Rarely occurred duplicate entries in service schedules removed
- | All texts during manual service reset indicated again
- | Sporadically faulty VCI update corrected

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	
	Parameters	
	Actuators	
	Basic settings	(Tonale (965), 965) (Initializing the adaptive cruise control, Calibrating the camera ECU)
	Codings	
	Service resets	
	DoIP/CAN-FD Capable for diagnostics only with mega macs X	
	Secured by Cyber Security Management (CSM) system Capable for diagnostics only with Cyber Security Management	(Tonale (965), 965)

Audi

	Trouble codes	(A4, 8D), (A4, 8W), (A5, F5), (Q3, 8U), (RS5, F5), (RS6, 4A)
	Parameters	(A4, 8D), (A4, 8W), (A5, F5), (Q3, 8U), (RS5, F5), (RS6, 4A), (S4, 8W), (S5, F5)
	Actuators	(A4, 8D), (A4, 8W), (A5, F5), (Q3, 8U), (RS5, F5), (RS6, 4A), (S4, 8W), (S5, F5)
	Basic settings	(A6, 4G), (A7, 4G) (Resetting learned values of DEF injection system, Parking brake maintenance work) (Q8, 4M) (Close 48-V battery contactors, Performing engine adaptations, Special bleeding, Parking brake maintenance work) (RS4, 8W) (Special bleeding, Parking brake maintenance work) (Q3, F3) (Close 48-V battery contactors, Parking brake maintenance work)

(A6, 4A), (A7, 4K) (Close 48-V battery contactors, Performing maintenance work on the refrigerant circuit, Bleeding the cooling system, Special bleeding, Parking brake maintenance work)

(Q3, 8U) (Bleeding the fuel system, Performing engine adaptations, Parking brake maintenance work)

(A3, 8V), (A4, 8K), (A5, 8F), (A5, 8T), (A6, 4F), (A8, 4E), (A8, 4H), (Q2, GA), (Q4 e-tron, FZ), (Q5, 8R), (R8, 42), (R8, 4S), (RS Q3, 8U), (RS Q3, F3), (RS3, 8V), (RS4, 8K), (RS5, 8F), (RS5, 8T), (RS6, 4F), (RS6, 4G), (RS7, 4G), (S3, 8V), (S4, 8K), (S5, 8F), (S5, 8T), (S6, 4F), (S6, 4G), (S7, 4G), (S8, 4E), (S8, 4H), (TT, 8J), (TT, FV) (Parking brake maintenance work)

(A4, 8D) (Learning the steering-angle sensor)

(A5, F5) (De-energizing the 48 V system, Putting the 48 V system back into operation, Close 48-V battery contactors, Special bleeding, Parking brake maintenance work)

(A4, 8W), (A8, 4N), (RS5, F5), (RS6, 4A), (RS7, 4K), (S4, 8W), (S5, F5), (S6, 4A), (S7, 4K), (S8, 4N) (Close 48-V battery contactors, Special bleeding, Parking brake maintenance work)

(e-tron, GE) (Performing maintenance work on the refrigerant circuit, Parking brake maintenance work)

(A3, 8Y), (RS3, 8Y), (S3, 8Y) (Parking brake maintenance work, Calibrating the camera ECU)

(Q5, FY), (Q7, 4M) (Close 48-V battery contactors, Performing maintenance work on the refrigerant circuit, Special bleeding, Parking brake maintenance work)

Codings

(A1, 8X), (S1, 8X) (Coding the language version)

(A1, GB), (A3, 8V), (Q2, GA), (Q3, F3), (RS Q3, F3), (RS3, 8V), (S3, 8V), (TT, FV) (Synchronisation of the remote control)

(Q3, 8U) (Coding the parking brake ECU)

(A4, 8D) (Coding the keys, Adapting immobiliser to engine ECU)

(A4, 8W), (A5, F5), (A6, 4A), (A7, 4K), (A8, 4N), (Q5, FY), (Q7, 4M), (Q8, 4M), (RS5, F5), (S4, 8W), (S5, F5), (S6, 4A), (S7, 4K), (S8, 4N) (Coding the integrated starter alternator)

Service resets

(A1, GB), (A3, 8V), (A3, 8Y), (A4, 8D), (A4, 8W), (A5, F5), (A6, 4A), (A7, 4K), (A8, 4N), (e-tron, GE), (e-tron GT, FW), (Q2, GA), (Q3, F3), (Q5, FY), (Q7, 4M), (Q8, 4M), (R8, 4S), (RS Q3, F3), (RS3, 8V), (RS3, 8Y), (RS4, 8W), (RS5, F5), (RS6, 4A), (RS7, 4K), (S3, 8V), (S3, 8Y), (S4, 8W), (S5, F5), (S6, 4A), (S7, 4K), (S8, 4N), (TT, FV)

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

Secured by Cyber Security Management (CSM) system Capable for diagnostics only with Cyber Security Management

(A3, 8Y), (S3, 8Y), (Q4 e-tron, FZ), (RS3, 8Y)

BMW

Trouble codes	(2 Ser., F45), (2 Ser., F46), (3 Ser., G20), (3 Ser., G21), (3 Ser., G81), (4 Ser., G23), (4 Ser., G26), (4 Ser., G82), (5 Ser., F90), (5 Ser., G31), (X3, G01), (X4, G02)
Parameters	(2 Ser., F45), (2 Ser., F46), (2 Ser., G42), (2 Ser., U06), (3 Ser., F80), (3 Ser., G20), (3 Ser., G21), (3 Ser., G81), (4 Ser., F82), (4 Ser., F83), (4 Ser., G23), (4 Ser., G26), (4 Ser., G82), (5 Ser., F90), (5 Ser., G31), (7 Ser., G70), (iX, I20), (X1, U11), (X3, G01), (X4, G02)
Actuators	(2 Ser., F45), (2 Ser., F46), (3 Ser., G20), (3 Ser., G21), (3 Ser., G81), (4 Ser., F82), (4 Ser., F83), (4 Ser., G23), (4 Ser., G26), (4 Ser., G82), (5 Ser., F90), (5 Ser., G31), (6 Ser., F06), (6 Ser., F12), (6 Ser., F13), (7 Ser., G70), (X3, G01), (X4, G02)
Basic settings	<p>(3 Ser., F34) (Resetting learned values of throttle valve actuator, Calibrating the radar sensor, Initialize acceleration sensor)</p> <p>(X3, G01) (Resetting reference values, Initializing the rain sensor, Setting vehicle into sleep mode, Moving the air distribution flaps to service position, Unlocking the electric auxiliary heater, Adjusting the boost control rod, Activating the assembly position of the exhaust gas flap actuator, Initializing the air suspension, De-energizing the 48 V system, Replacing the particle filter, Initializing the variable valve lift, Resetting transfer case adaptation values, Unlocking aux. heater/independent car heater, Resetting the ECU, Bleeding the electronic stability control, Resetting learned values of throttle valve actuator, Resetting learned values of the transmission ECU, Learning the power windows, Standardizing the liftgate, Filling/bleeding the pneumatic suspension system, Resetting the mixture adjustment, Changing automatic transmission fluid, Resetting differential pressure sensor learning values, Adapting the A/C compressor, Resetting fuel system adaptation values, Initializing the air distribution flaps, Resetting the pulse-generator ring adaptation, Initializing the tilt/slide sunroof, Calibrating the radar sensor, Calibrating the front camera, Initializing the electronic stability control sensors, Interchanged brake pipe check, Adapting the variable camshaft timing, Performing the internal tank pressure sensor synchronization, Configuring the lane change assist, Initializing the turn signal front, De/activating the parking brake service mode, Calibrating the rearview camera/all-round vision camera)</p> <p>(2 Ser., F46) (Resetting reference values, Adapt shifting speed regulation, Reset equipment variant, Setting vehicle into sleep mode, Adjusting the boost control rod, Activating the assembly position of the exhaust gas flap actuator, Initializing ride height sensors, Initializing the variable valve lift, Resetting the quantity mean value adaptation, Learning the steering-angle sensor, Resetting transfer case adaptation values, Unlocking aux. heater/independent car heater, Resetting the ECU, Bleeding the electronic stability control, Resetting learned values of throttle valve actuator, Resetting learned values of the transmission ECU, Standardizing the liftgate, Learning the power windows, Gearbox bleeding, Resetting the mixture adjustment, Initializing the gear sensor, Resetting differential pressure sensor learning values, Adapting the A/C compressor, Resetting fuel system adaptation values, Readdressing air distribution flaps, Initializing the A/C flap actuators, Activating the fuel pump, Resetting the pulse-generator ring adaptation, Resetting the quantity mean value adaptation, Initializing the neutral position sensor, Initializing pre-programmed keys, Initializing the rain/light sensor, Initializing the tilt/slide sunroof, Calibrating the front camera, Initializing the electronic stability control sensors, Adapting the electronic damper control, Interchanged brake pipe check, Initialize acceleration sensor, Adapting the variable camshaft timing, Adapting the headlight motor, Initializing the turn signal front, De/activating the parking brake service mode, Calibrating the rearview camera/all-round vision camera)</p> <p>(1 Ser., F20), (1 Ser., F21), (1 Ser., F40), (2 Ser., F22), (2 Ser., F23), (2 Ser., F44), (4 Ser., F32), (4 Ser., F33), (4 Ser., F36), (4 Ser., G22), (6 Ser., G32), (7 Ser., G11), (7 Ser., G12), (7 Ser., G70), (X1, F48) (Initialize acceleration sensor)</p>

(X4, G02) (Resetting reference values, Initializing the rain sensor, Setting vehicle into sleep mode, Moving the air distribution flaps to service position, Unlocking the electric auxiliary heater, Initialize minimum quantity deviation of the injectors, Adjusting the boost control rod, Activating the assembly position of the exhaust gas flap actuator, Initializing the air suspension, De-energizing the 48 V system, Replacing the particle filter, Initializing the variable valve lift, Resetting transfer case adaptation values, Unlocking aux. heater/independent car heater, Resetting the ECU, Bleeding the electronic stability control, Resetting learned values of throttle valve actuator, Resetting learned values of the transmission ECU, Learning the power windows, Standardizing the liftgate, Filling/bleeding the pneumatic suspension system, Resetting the mixture adjustment, Changing automatic transmission fluid, Resetting differential pressure sensor learning values, Adapting the A/C compressor, Resetting fuel system adaptation values, Initializing the air distribution flaps, Activating the fuel pump, Resetting the pulse-generator ring adaptation, Initializing the tilt/slide sunroof, Calibrating the radar sensor, Calibrating the front camera, Initializing the electronic stability control sensors, Interchanged brake pipe check, Adapting the variable camshaft timing, Configuring the lane change assist, Initializing the turn signal front, De/activating the parking brake service mode, Calibrating the rearview camera/all-round vision camera)

(4 Ser., G26) (Activating the assembly position of the exhaust gas flap actuator, Initializing the variable valve lift, Resetting the mixture adjustment, Resetting fuel system adaptation values, Activating the fuel pump, Resetting the pulse-generator ring adaptation, Initialize acceleration sensor, Adapting the variable camshaft timing)

(2 Ser., F45) (Resetting reference values, Adapt shifting speed regulation, Reset equipment variant, Setting vehicle into sleep mode, Adjusting the boost control rod, Initializing ride height sensors, Initializing the variable valve lift, Learning the steering-angle sensor, Resetting transfer case adaptation values, Unlocking aux. heater/independent car heater, Resetting the ECU, Bleeding the electronic stability control, Resetting learned values of throttle valve actuator, Resetting learned values of the transmission ECU, Standardizing the liftgate, Learning the power windows, Gearbox bleeding, Resetting the mixture adjustment, Initializing the gear sensor, Resetting differential pressure sensor learning values, Adapting the A/C compressor, Resetting fuel system adaptation values, Readdressing air distribution flaps, Bleeding the cooling system, Initializing the A/C flap actuators, Activating the fuel pump, Resetting the pulse-generator ring adaptation, Resetting the quantity mean value adaptation, Initializing the neutral position sensor, Initializing pre-programmed keys, Initializing the rain/light sensor, Initializing the tilt/slide sunroof, Resetting starter learning values, Calibrating the front camera, Initializing the electronic stability control sensors, Adapting the electronic damper control, Interchanged brake pipe check, Initialize acceleration sensor, Adapting the variable camshaft timing, De-energizing the hybrid/electric vehicle, Performing the internal tank pressure sensor synchronization, Adapting the headlight motor, Initializing the turn signal front, De/activating the parking brake service mode, Calibrating the rearview camera/all-round vision camera)

(3 Ser., G81) (Initializing the rain sensor, Moving the air distribution flaps to service position, Unlocking the electric auxiliary heater, Draining/filling the refrigerant circuit, Taking the steering into operation, Resetting gearbox learning values, Resetting transfer case adaptation values, Unlocking aux. heater/independent car heater, Resetting the ECU, Initializing the sunroof anti-pinch protection, Learning the power windows, Standardizing the liftgate, De/activating the parking brake service mode, Adapting the A/C compressor, Calibrating the radar sensor, Calibrating the front camera, Configuring the lane change assist, Calibrating the rearview camera/all-round vision camera)

(3 Ser., G20) (Initializing the rain sensor, Adapt shifting speed regulation, Reset equipment variant, Setting vehicle into sleep mode, Moving the air distribution flaps to service position, Unlocking the electric auxiliary heater, Draining/filling the refrigerant circuit, Adjusting the boost control rod, Activating the assembly position of the exhaust gas flap actuator, Initializing the air suspension, De-energizing the 48 V system, Deactivating the transport mode of ride height leveling/damper control, Initializing ride height sensors, Taking the

steering into operation, Initializing the variable valve lift, Resetting gearbox learning values, Resetting transfer case adaptation values, Unlocking aux. heater/independent car heater, Resetting the ECU, Initializing the exhaust gas flap, Resetting learned values of throttle valve actuator, Initializing the sunroof anti-pinch protection, Learning the power windows, Standardizing the liftgate, Filling/bleeding the pneumatic suspension system, De/activating the parking brake service mode, Resetting the DME adaptation values, Resetting the mixture adjustment, Initializing the gear sensor, Resetting differential pressure sensor learning values, Adapting the A/C compressor, Resetting fuel system adaptation values, Activating the fuel pump, Resetting the pulse-generator ring adaptation, Resetting the quantity mean value adaptation, Calibrating the radar sensor, Resetting starter learning values, Calibrating the front camera, Bleeding the brake system, Initialize acceleration sensor, Adapting the variable camshaft timing, Calibrating the rearview camera/all-round vision camera)

(4 Ser., G82) (Resetting reference values, Initializing the rain sensor, Setting vehicle into sleep mode, Moving the air distribution flaps to service position, Unlocking the electric auxiliary heater, Adjusting the boost control rod, Initializing the air suspension, De-energizing the 48 V system, Initializing the variable valve lift, Resetting transfer case adaptation values, Unlocking aux. heater/independent car heater, Resetting the ECU, Bleeding the electronic stability control, Resetting learned values of throttle valve actuator, Resetting learned values of the transmission ECU, Learning the power windows, Standardizing the liftgate, Filling/bleeding the pneumatic suspension system, Resetting the mixture adjustment, Changing automatic transmission fluid, Adapting the A/C compressor, Resetting fuel system adaptation values, Initializing the air distribution flaps, Resetting the pulse-generator ring adaptation, Initializing the tilt/slide sunroof, Calibrating the radar sensor, Calibrating the front camera, Initializing the electronic stability control sensors, Interchanged brake pipe check, Adapting the variable camshaft timing, Configuring the lane change assist, Initializing the turn signal front, De/activating the parking brake service mode, Calibrating the rearview camera/all-round vision camera)

(5 Ser., F90) (Resetting reference values, Initializing the rain sensor, Setting vehicle into sleep mode, Moving the air distribution flaps to service position, Unlocking the electric auxiliary heater, Initializing the air suspension, Taking the steering into operation, Activating the axle alignment mode for self-steering rear axle, Resetting gearbox learning values, Resetting transfer case adaptation values, Unlocking aux. heater/independent car heater, Resetting the ECU, Bleeding the electronic stability control, Learning the power windows, Standardizing the liftgate, Filling/bleeding the pneumatic suspension system, Adapting the A/C compressor, Initializing the air distribution flaps, Calibrating the night vision assist, Initializing the tilt/slide sunroof, Calibrating the radar sensor, Calibrating the front camera, Deactivating the transport mode, Initializing the electronic stability control sensors, Interchanged brake pipe check, Configuring the lane change assist, Initializing the turn signal front, De/activating the parking brake service mode)

(3 Ser., G21) (Initializing the rain sensor, Adapt shifting speed regulation, Reset equipment variant, Setting vehicle into sleep mode, Moving the air distribution flaps to service position, Unlocking the electric auxiliary heater, Draining/filling the refrigerant circuit, Adjusting the boost control rod, Activating the assembly position of the exhaust gas flap actuator, Initializing the air suspension, De-energizing the 48 V system, Deactivating the transport mode of ride height leveling/damper control, Taking the steering into operation, Initializing the variable valve lift, Resetting gearbox learning values, Resetting transfer case adaptation values, Unlocking aux. heater/independent car heater, Resetting the ECU, Initializing the exhaust gas flap, Resetting learned values of throttle valve actuator, Initializing the sunroof anti-pinch protection, Learning the power windows, Standardizing the liftgate, Filling/bleeding the pneumatic suspension system, De/activating the parking brake service mode, Resetting the DME adaptation values, Resetting the mixture adjustment, Initializing the gear sensor, Resetting differential pressure sensor learning values, Adapting the A/C compressor, Resetting fuel system adaptation values, Activating the fuel pump, Resetting the pulse-generator ring adaptation, Resetting the quantity mean value adaptation,

Calibrating the radar sensor, Resetting starter learning values, Calibrating the front camera, Bleeding the brake system, Initialize acceleration sensor, Adapting the variable camshaft timing, Calibrating the rearview camera/all-round vision camera)

(5 Ser., G30) (Setting the maximum oil pressure, Resetting learned values of throttle valve actuator, Initialize acceleration sensor)

(4 Ser., G23) (Initializing the rain sensor, Setting vehicle into sleep mode, Moving the air distribution flaps to service position, Unlocking the electric auxiliary heater, Activating the assembly position of the exhaust gas flap actuator, Initializing the air suspension, Deactivating the transport mode of ride height leveling/damper control, Taking the steering into operation, Activating the axle alignment mode for self-steering rear axle, Initializing the variable valve lift, Resetting gearbox learning values, Resetting transfer case adaptation values, Unlocking aux. heater/independent car heater, Resetting the ECU, Resetting learned values of the transmission ECU, Learning the power windows, Standardizing the liftgate, Filling/bleeding the pneumatic suspension system, Resetting the mixture adjustment, Changing automatic transmission fluid, Adapting the A/C compressor, Resetting fuel system adaptation values, Initializing the air distribution flaps, Activating the fuel pump, Resetting the pulse-generator ring adaptation, Calibrating the night vision assist, Initializing the tilt/slide sunroof, Calibrating the radar sensor, Calibrating the front camera, Deactivating the transport mode, Initializing the electronic stability control sensors, Bleeding the brake system, Interchanged brake pipe check, Initialize acceleration sensor, Adapting the variable camshaft timing, Performing the internal tank pressure sensor synchronization, Configuring the lane change assist, Initializing the turn signal front, De/activating the parking brake service mode, Calibrating the rearview camera/all-round vision camera)

(2 Ser., G42) (Adjusting the boost control rod, Resetting learned values of throttle valve actuator, Initialize acceleration sensor)

(2 Ser., U06), (3 Ser., F30), (3 Ser., F31) (Resetting learned values of throttle valve actuator, Initialize acceleration sensor)

(X1, U11) (Resetting learned values of throttle valve actuator)

(5 Ser., G31) (Initializing the rain sensor, Setting vehicle into sleep mode, Moving the air distribution flaps to service position, Unlocking the electric auxiliary heater, Initialize minimum quantity deviation of the injectors, Adjusting the boost control rod, Activating the assembly position of the exhaust gas flap actuator, Initializing the air suspension, De-energizing the 48 V system, Taking the steering into operation, Setting the maximum oil pressure, Activating the axle alignment mode for self-steering rear axle, Initializing the variable valve lift, Resetting transfer case adaptation values, Unlocking aux. heater/independent car heater, Resetting the ECU, Initializing the exhaust gas flap, Bleeding the electronic stability control, Resetting learned values of throttle valve actuator, Resetting learned values of the transmission ECU, Learning the power windows, Standardizing the liftgate, Filling/bleeding the pneumatic suspension system, Resetting the mixture adjustment, Changing automatic transmission fluid, Adapting the A/C compressor, Resetting fuel system adaptation values, Readdressing air distribution flaps, Initializing the air distribution flaps, Activating the fuel pump, Resetting the pulse-generator ring adaptation, Calibrating the night vision assist, Initializing the tilt/slide sunroof, Calibrating the radar sensor, Calibrating the front camera, Deactivating the transport mode, Initializing the electronic stability control sensors, Interchanged brake pipe check, Initialize acceleration sensor, Adapting the variable camshaft timing, Performing the internal tank pressure sensor synchronization, Configuring the lane change assist, Initializing the turn signal front, De/activating the parking brake service mode, Calibrating the rearview camera/all-round vision camera)

(3 Ser., G80) (Replacing the brake fluid, Taking the steering into operation, Initializing the sunroof anti-pinch protection, Bleeding the brake system, Calibrating the rearview camera/all-round vision camera)

| Codings

(2 Ser., F45), (2 Ser., F46) (Registering the battery, Coding injectors, Coding the idle rpm)

(3 Ser., G81), (4 Ser., G26) (Registering the battery)
 (5 Ser., F90) (Registering the battery, Deactivating/activating the transport mode)
 (4 Ser., G82), (X3, G01) (Registering the battery, Coding the idle rpm, Deactivating the transport mode)
 (4 Ser., G23), (5 Ser., G31), (X4, G02) (Registering the battery, Coding the idle rpm, Deactivating/activating the transport mode)
 (3 Ser., G20), (3 Ser., G21) (Registering the battery, Coding injectors)

| **Service resets** (2 Ser., F45), (2 Ser., F46), (3 Ser., G20), (3 Ser., G21), (3 Ser., G81), (4 Ser., G23), (4 Ser., G26), (4 Ser., G82), (5 Ser., F90), (5 Ser., G31), (8 Ser., G14), (X3, G01), (X4, G02)

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

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

Citroen

| **Trouble codes** (Berlingo-III, 7), (C3, S), (C3, SX, SY)

| **Parameters** (Berlingo-III, 7), (C3, S), (C3, SX, SY), (C5 X, N), (DS4, N)

| **Actuators** (Berlingo-III, 7), (C3, S), (C3, SX, SY), (C5 X, N), (DS4, N)

| **Basic settings** (Berlingo-III, 7) (Regenerating the soot particulate filter at standstill, Regenerating the soot particulate filter during driving, Performing transmission adaptations, Learning the injection valve, Activating the start/stop function, Replacing engine parts, Initializing the start/stop system)
 (DS4, N) (Replacing engine parts)
 (C3, S), (C3, SX, SY) (Bleeding the ABS/ESC system, Initialising adaptive functions, Locking the airbag ECU, Unlocking the airbag ECU, Adapting the longitudinal acceleration sensor, Initializing the A/C flap actuators, Leaving the ECO mode, Initializing the rain/light sensor, Calibrating the camera ECU, Replacing engine parts, Replace brake parts)
 (Berlingo-IV, E), (C4, B), (C5 Aircross, A), (C5 X, N), (Jumpy-IV, V), (SpaceTourer, V) (Performing basic setting of high-voltage battery module)

| **Codings** (C5 X, N) (Coding the keys)
 (Berlingo-III, 7) (Coding injectors, Coding transmission readings)
 (C3, S), (C3, SX, SY) (Coding the trailer hitch)

| **Service resets** (C3, S), (C3, SX, SY)

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

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

Cupra

| **Trouble codes**

| **Parameters**

| **Actuators**

| **Basic settings** (Formentor, KM) (Parking brake maintenance work, Calibrating the camera ECU)
 (Born, K1) (Parking brake maintenance work)
 (Leon, KL) (Initializing the brake-pressure sensor, Initializing the ESC sensors, Activating the roller test stand mode, Special bleeding, Parking brake maintenance work)

| **Codings** (Leon, KL) (De/activating the trailer hitch, Registering the battery, Deactivating/activating the transport mode)

| **Service resets** (Born, K1), (Formentor, KM)

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

| **Secured by Cyber Security Management (CSM) system** Capable for diagnostics only with Cyber Security Management (Formentor, KM), (Leon, KL), (Born, K1)

Dacia

Trouble codes	(Duster-II, HSD8), (Duster-III, HMM3), (Logan-II, 4SDC,4SDC,4SDK), (Sandero-II, 5SDA,5SDL)
Parameters	(Duster-II, HSD8), (Duster-III, HMM3), (Logan-II, 4SDC,4SDC,4SDK), (Sandero-II, 5SDA,5SDL)
Actuators	(Duster-III, HMM3), (Logan-II, B8AC), (Sandero-II, 5ESDS1)
Basic settings	<p>(Logan-II, B8AC), (Sandero-II, 5ESDS1) (Bleeding the ABS hydraulic unit, Learning the throttle valve, Calibrating the steering-angle sensor, Resetting learned values of steering angle sensor, Resetting the mixture adjustment, Initializing the starter ring gear, Adapting the variable camshaft timing)</p> <p>(Duster-II, HSD8) (Adapting the clutch assembly, Resetting the gearbox oil ageing counter)</p> <p>(Duster-III, HMM3) (Adapting the clutch assembly, Bleeding the ABS hydraulic unit, Learning the steering-angle sensor, Resetting the gearbox oil ageing counter)</p> <p>(Dokker, HSAJ,HSD3J,4SD4J,4SD8J,5SD4J) (Reset low-pressure EGR learned values, Regenerating the soot particulate filter, Initializing the EGR valve, Initializing the exhaust gas flap, Resetting high-pressure fuel pump adaptation values, Learning the lambda sensor, Resetting catalyst adaptation values)</p>
Codings	<p>(Logan-II, B8AC), (Sandero-II, 5ESDS1) (Locking the airbag ECU, Unlocking the airbag ECU, Coding the language version, Coding the tire size)</p> <p>(Duster-III, HMM3) (Airbag ECU locking/unlocking , Coding injectors, Coding the language version)</p>
Service resets	(Logan-II, B8AC), (Sandero-II, 5ESDS1)

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

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

Fiat

Trouble codes	(500X (334), 334)
Parameters	(Ducato-VI (290), 290 (EU6D))
Actuators	

Basic settings	<p>(Ducato-VI (290), 290 (EU6D)) (Resetting the learned values for DEF injector, Replace diesel exhaust fluid pressure sensor, Bleed DEF injection system, Replace DEF injector, Replacing the diesel exhaust fluid pump, Replace diesel exhaust fluid tank, Replace diesel exhaust fluid line, Reset learned values for diesel exhaust fluid tank system, Resetting the diesel exhaust fluid level, Resetting learned values of diesel exhaust fluid pump, Calibrating the camera ECU)</p> <p>(Doblo (152/263), 263) (Regenerating the soot particulate filter, Initializing the fuel high-pressure sensor, Replacing the lambda probe, Resetting mass airflow sensor adaptation values)</p>
Codings	
Service resets	
DoIP/CAN-FD Capable for diagnostics only with mega macs X	
Secured by Cyber Security Management (CSM) system Capable for diagnostics only with Cyber Security Management	(Doblo (152/263), 263), (500X (334), 334)

Ford

Trouble codes	(KA+, KAF), (Transit 09, FSA6,FSB6,FSC6,FAA6,FAC6,FAD6,FAB6), (Transit 10, FCD)
Parameters	(KA+, KAF), (Kuga 03, DFK), (Transit 09, FSA6,FSB6,FSC6,FAA6,FAC6,FAD6,FAB6), (Transit 10, FCD)
Actuators	
Basic settings	<p>(Transit 10, FED) (Regenerating the soot particulate filter, Resetting adaptation values of high-pressure fuel system, Learning the steering-angle sensor, Adapting the longitudinal acceleration sensor, Resetting the particulate filter learning values, Resetting the indicator light "Water in fuel", Resetting the intake manifold flap learning values, Resetting engine adaptation values, Reset learned values of injectors., Resetting mass airflow sensor adaptation values, Resetting the exhaust temperature values, Resetting the variable turbocharger adaptation values, Teach-in battery sensor module, Resetting EGR valve learning values, Resetting differential pressure sensor learning values)</p> <p>(Kuga 03, DFK) (Resetting oxygen sensor adaptation values, Regenerating the soot particulate filter, Initializing the fuel high-pressure sensor, Resetting mass airflow sensor adaptation values, Resetting the particulate filter learning values, Reset learned values of injectors., Resetting the indicator light "Water in fuel", Resetting the intake manifold flap learning values)</p> <p>(Focus 06, HP) (Resetting the fuel low pressure adaptation values, Regenerating the soot particulate filter, Initializing the crankshaft sensor, Resetting adaptation values of high-pressure fuel system, Cleaning the turbocharger, Resetting soot particulate sensor</p>

adaptation values, Filling the regeneration additive container, Resetting EGR valve learning values, Resetting mass airflow sensor adaptation values, Resetting the particulate filter learning values, Resetting learned values of the DEF injection system, Resetting differential pressure sensor learning values, Resetting the indicator light "Water in fuel", Resetting engine adaptation values, Reset learned values of injectors., Resetting the variable turbocharger adaptation values)

(Transit 09, FCC) (Regenerating the soot particulate filter, Adapting the longitudinal acceleration sensor, Initializing the brake-pressure sensor, Resetting the particulate filter learning values, Adapting the injection pump, Setting the speed limiter, Resetting the indicator light "Water in fuel", Resetting learned values of fuel pressure regulator, Calibrating the steering-angle sensor, Performing the special bleeding with ESC, Performing the special bleeding without ESC, Resetting the exhaust temperature values, Check the fuel system for tightness, Teach-in battery sensor module, Adapting the preinjection, Resetting differential pressure sensor learning values)

(C-Max 04, DXA) (Resetting engine adaptation values)

(KA+, KAF) (Initializing the brake-pressure sensor, Resetting engine adaptation values, Adapting the longitudinal acceleration sensor, Initializing the lateral acceleration sensor, Calibrating the steering wheel position sensor)

(Fiesta 08, JJH) (Resetting misfire and knock counter, Resetting engine adaptation values)

| Codings

(Transit 09, FDA6,FDB6,FDC6,FCD6,FCC6) (Coding injectors, Coding the automatic locking of doors, Deactivating the transport mode)

(Focus 06, HP), (Transit 10, FED) (Coding injectors)

| Service resets

(KA+, KAF), (Transit 09, FSA6,FSB6,FSC6,FAA6,FAC6,FAD6,FAB6)

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

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

Honda

| Trouble codes

(e, ZC7)

| Parameters

| Actuators

| Basic settings

(e, ZC7) (Calibrating the camera ECU)

| Codings

Service resets

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

Secured by Cyber Security Management (CSM) system Capable for diagnostics only with Cyber Security Management

Hyundai

- Trouble codes** (H-1 / Starex, TQ), (i30 / i30cw, GD), (i30 / i30cw, PD), (Ioniq, NE)
- Parameters** (H-1 / Starex, TQ), (i30 / i30cw, GD), (i30 / i30cw, PD), (ix20, JC)
- Actuators** (H-1 / Starex, TQ), (i30 / i30cw, GD)
- Basic settings**

(Kona, OS), (Kona, OS) (Initializing the EGR valve, Learning the throttle valve, Resetting engine adaptation values, Resetting the start inhibitor of DEF injection system, Resetting learned values of the lower EGR, Replacing the fuel pressure sensor)

(i30 / i30cw, PD) (Initializing the diesel exhaust fluid pump module, Initializing the diesel exhaust fluid injector, Filling/bleeding the diesel exhaust fluid line, Adapting the diesel exhaust fluid tank, Resetting the start inhibitor of DEF injection system)

(H-1 / Starex, TQ), (H-1 / Starex, TQ) (Resetting gearbox learning values, Resetting the start inhibitor of DEF injection system)

(Tucson, TL), (Tucson, TL) (Resetting the start inhibitor of DEF injection system)

(Tucson, TL) (Initializing the EGR valve, Replacing the particle filter, Initializing the mass airflow sensor, Learning the throttle valve, Adapting the accelerator sensor, Learning the lambda sensor, Resetting the start inhibitor of DEF injection system, Resetting learned values of the lower EGR, Replacing the fuel pressure sensor)
- Codings**

(i30 / i30cw, PD), (i30 / i30cw, PD), (i30 / i30cw, PD), (i30 / i30cw, PD), (Kona, OS), (Kona, OS), (Kona, OS), (Kona, OS) (Coding the steering)

(ix20, JC), (ix20, JC), (ix20, JC) (Coding the power steering ECU)
- Service resets** (i20, GB)

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

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

Jeep

| **Trouble codes** (Renegade (BU), BU), (Renegade (BV), BV)

| **Parameters** (Renegade (BU), BU), (Renegade (BV), BV)

| **Actuators** (Renegade (BU), BU), (Renegade (BV), BV)

| **Basic settings** (Renegade (BV), BV) (Initializing the brake-pressure sensor, Learning the steering-angle sensor, Initializing the adaptive cruise control, Initializing the air distribution flaps, De/activating the parking brake service mode, Calibrating the camera ECU)

(Renegade (BU), BU) (Initializing the soot particulate filter, Initializing the fuel high-pressure sensor, Initializing the EGR valve, Learning the turbocharger, Initializing the brake-pressure sensor, Resetting mass airflow sensor adaptation values, Learning the steering-angle sensor, Resetting gearbox learning values, Initializing the adaptive cruise control, Adapting the clutch biting point, Initializing the air distribution flaps, Learning the lambda sensor, De/activating the parking brake service mode, Calibrating the camera ECU, Initializing the alternator, Resetting differential pressure sensor learning values)

| **Codings** (Renegade (BV), BV) (Coding the tire pressure sensor ID, Coding the trailer detection, Deactivating the transport mode)

(Renegade (BU), BU) (Coding the tire pressure sensor ID, Coding the trailer detection, Coding injectors, Deactivating the transport mode)

| **Service resets** (Compass (MP), MP), (Renegade (BU), BU), (Renegade (BV), BV)

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

| **Secured by Cyber Security Management (CSM) system** Capable
for diagnostics
only with Cyber Security Management (Compass (MP), MP), (Renegade (BV), BV), (Renegade (BU), BU)

Kia

Trouble codes	(EV6, CV), (Niro, SG2), (Optima, JF), (Sorento, UM), (Stonic, YB), (Venga, YN)
Parameters	(EV6, CV), (Niro, SG2), (Optima, JF), (Sorento, UM), (Stonic, YB), (Venga, YN)
Actuators	(Stonic, YB)
Basic settings	<p>(Optima, JF) (Calibrating radar statically, Bleeding the ABS/ESC system, Adapting the longitudinal acceleration sensor, Resetting gearbox learning values, Teach-in clutch system, Resetting adaptation values of ABS ECU, Learning the steering-angle sensor, Resetting the start inhibitor of DEF injection system, Parking brake maintenance work)</p> <p>(Sorento, UM) (Parking brake maintenance work)</p> <p>(Venga, YN), (Venga, YN) (Learning the steering-angle sensor)</p> <p>(Sportage, QL), (Sportage, QL), (Sportage, QL) (Resetting the start inhibitor of DEF injection system)</p> <p>(Stonic, YB) (Regenerating the soot particulate filter, Initializing the EGR valve, Replacing the particle filter, Initializing the mass airflow sensor, Bleeding the fuel system, Learning the throttle valve, Adapting the accelerator sensor, Initializing the fuel high-pressure sensor, Learning the lambda sensor, Resetting engine adaptation values, Resetting the start inhibitor of DEF injection system, Resetting learned values of the lower EGR)</p> <p>(Optima, JF), (Optima, JF) (Calibrating radar statically, Bleeding the ABS/ESC system, Adapting the longitudinal acceleration sensor, Resetting gearbox learning values, Teach-in clutch system, Resetting adaptation values of ABS ECU, Learning the steering-angle sensor, Parking brake maintenance work)</p> <p>(Cee'd / Pro Cee'd, CD), (Cee'd / Pro Cee'd, CD) (Initializing the diesel exhaust fluid pump module, Initializing the diesel exhaust fluid injector, Filling/bleeding the diesel exhaust fluid line, Adapting the diesel exhaust fluid tank, Resetting gearbox learning values, Bleed transmission hydraulics, Resetting the start inhibitor of DEF injection system)</p> <p>(Sorento, XM), (Sorento, XM), (Sorento, XM), (Sorento, XM) (Adapting the longitudinal acceleration sensor, Learning the steering-angle sensor)</p> <p>(Sorento, MQ4) (Initializing the diesel exhaust fluid pump module, Initializing the diesel exhaust fluid injector, Filling/bleeding the diesel exhaust fluid line, Adapting the diesel exhaust fluid tank, Resetting the start inhibitor of DEF injection system)</p>
Codings	<p>(Optima, JF), (Optima, JF), (Optima, JF) (Coding the wheel valves)</p> <p>(Stonic, YB) (Coding injectors)</p> <p>(Venga, YN), (Venga, YN) (Coding the power steering ECU)</p>
Service resets	

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

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

Lexus

| **Trouble codes** (CT, ZWA10), (ES, ASV), (ES, ASV60), (ES, ASV61), (ES, AVV60), (ES, AXZH10), (ES, GSV40), (ES, GSV60), (ES, GSZ10), (ES, MCV30), (ES, MCV31), (GS, ARL10), (GS, AWL10), (GS, GRL12), (GS, GRL16), (GS, GRS190), (GS, GRS191,GWS191), (GS, GRS196), (GS, GWL10), (GS, URL10), (GS, URS190), (GS, UZS190), (GX, GRJ), (GX, GRJ150), (GX, URJ150), (HS, ANF10), (IS, ALE20), (IS, ASE30), (IS, AVE30), (IS, GSE), (IS, GSE20), (IS, GSE21), (IS, GSE26), (IS, GSE3), (IS, GSE30), (IS, GSE31), (IS, GSE35), (IS, GSE37), (IS, USE20), (LC, GWZ100), (LC, URZ100), (LS, GSF50), (LS, GVF50), (LS, GVF55L), (LS, UCF30), (LS, USF40), (LS, USF40,USF41), (LS, USF45), (LS, USF50), (LS, UVF45,UVF46), (LS, UVF46), (LS, VXFA55L), (LX, URJ201), (LX, URJ202), (LX, UZJ100), (LX, VDJ201), (NX, AAZH20), (NX, AAZH25), (NX, AAZH26), (NX, AGZ10L), (NX, AGZ15L), (NX, AYZ10L), (NX, AYZ15L), (NX, AZ2(M)-TGRE), (RC, ASC10L), (RC, AVC10L), (RC, GSC10), (RC, GSC15), (RC, GSC16), (RC, USC10), (RC, USC10L), (RX, AGL10), (RX, AGL20), (RX, AGL25), (RX, GGL15), (RX, GGL20), (RX, GGL25), (RX, GSU35), (RX, GYL10), (RX, GYL15), (RX, GYL20), (RX, GYL25), (RX, GYL25,GYL26), (RX, MHU38), (UX, KMA10), (UX, MZAA10), (UX, MZAH15)

| **Parameters** (CT, ZWA10), (ES, ASV), (ES, ASV60), (ES, ASV61), (ES, AVV60), (ES, AXZH10), (ES, GSV40), (ES, GSV60), (ES, GSZ10), (ES, MCV30), (ES, MCV31), (GS, ARL10), (GS, AWL10), (GS, GRL12), (GS, GRL16), (GS, GRS196), (GS, GWL10), (GS, URL10), (GS, UZS190), (GX, GRJ), (GX, GRJ150), (GX, URJ150), (HS, ANF10), (IS, ALE20), (IS, ASE30), (IS, AVE30), (IS, GSE), (IS, GSE20), (IS, GSE21), (IS, GSE26), (IS, GSE3), (IS, GSE30), (IS, GSE31), (IS, GSE35), (IS, GSE37), (IS, USE20), (LC, GWZ100), (LC, URZ100), (LS, GSF50), (LS, GVF50), (LS, GVF55L), (LS, UCF30), (LS, USF40), (LS, USF40,USF41), (LS, USF45), (LS, USF50), (LS, UVF45,UVF46), (LS, UVF46), (LS, VXFA55L), (LX, URJ201), (LX, URJ202), (LX, UZJ100), (LX, VDJ201), (NX, AAZH20), (NX, AAZH25), (NX, AAZH26), (NX, AGZ10L), (NX, AGZ15L), (NX, AYZ10L), (NX, AYZ15L), (NX, AZ2(M)-TGRE), (RC, ASC10L), (RC, AVC10L), (RC, GSC10), (RC, GSC15), (RC, GSC16), (RC, USC10), (RC, USC10L), (RX, AGL10), (RX, AGL20), (RX, AGL25), (RX, GGL15), (RX, GGL20), (RX, GGL25), (RX, GSU35), (RX, GYL10), (RX, GYL15), (RX, GYL20), (RX, GYL25), (RX, GYL25,GYL26), (RX, MHU38), (UX, KMA10), (UX, MZAA10), (UX, MZAH15)

| **Actuators** (CT, ZWA10), (ES, ASV), (ES, ASV60), (ES, ASV61), (ES, AVV60), (ES, AXZH10), (ES, GSV40), (ES, GSV60), (ES, GSZ10), (ES, MCV30), (ES, MCV31), (GS, ARL10), (GS, AWL10), (GS, GRL12), (GS, GRL16), (GS, GWL10), (GS, URL10), (GX, GRJ), (GX, GRJ150), (GX, URJ150), (HS, ANF10), (IS, ASE30), (IS, AVE30), (IS, GSE), (IS, GSE26), (IS, GSE30), (IS, GSE35), (IS, GSE37), (LC, GWZ100), (LC, URZ100), (LS, GSF50), (LS, GVF50), (LS, GVF55L), (LS, USF40,USF41), (LS, USF50), (LS, UVF46), (LS, VXFA55L), (LX, URJ201), (LX, URJ202), (LX, UZJ100), (LX, VDJ201), (NX, AAZH20), (NX, AAZH25), (NX, AAZH26), (NX, AGZ10L), (NX, AGZ15L), (NX, AYZ10L), (NX, AYZ15L), (NX, AZ2(M)-TGRE), (RC, ASC10L), (RC, AVC10L), (RC, GSC10), (RC, GSC15), (RC, GSC16), (RC, USC10), (RC, USC10L), (RX, AGL10), (RX, AGL20), (RX, AGL25), (RX, GGL20), (RX, GGL25), (RX, GYL20), (RX, GYL25), (RX, GYL25,GYL26)

Basic settings	(NX, AAZH20), (NX, AAZH25), (NX, AAZH26), (NX, AZ2(M)-TGRE) (Resetting parking brake adaptation values, Initializing the cross traffic assist front, De/activating the parking brake service mode, Initializing the yaw rate sensor, Resetting adaptation values of ABS ECU, Calibrating the parking brake, Calibrating the radar sensor, Service mode (engine immobilizer can be deactivated > gasoline engine runs), Configuring the lane change assist, Calibrating the camera ECU)
Codings	(NX, AAZH20), (NX, AAZH25), (NX, AAZH26), (NX, AZ2(M)-TGRE) (Coding the tire pressure check)
<hr/>	
Service resets	
DoIP/CAN-FD Capable for diagnostics only with mega macs X	(ES, AXZH10)
<hr/>	
Secured by Cyber Security Management (CSM) system Capable for diagnostics only with Cyber Security Management	

LYNK & CO

Trouble codes	(01, GX6)
Parameters	
Actuators	
Basic settings	(01, GX6) (Resetting adaptation values of front radar sensor, Calibrating the front camera, Initializing the rain/light sensor, Parking brake maintenance work)
Codings	
Service resets	(01, GX6)
<hr/>	
DoIP/CAN-FD Capable for diagnostics only with mega macs X	
<hr/>	
Secured by Cyber Security Management (CSM) system Capable for diagnostics only with Cyber Security Management	(01, GX6)

MAN

- | **Trouble codes**
- | **Parameters**
- | **Actuators**
- | **Basic settings**
- | **Codings**
- | **Service resets** (TGE, UY), (TGE, UZ)

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

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

Mazda

- | **Trouble codes** (CX-60, KH)
- | **Parameters** (CX-60, KH)
- | **Actuators** (CX-60, KH)
- | **Basic settings** (CX-60, KH) (Calibrating front radar sensors, Calibrating rear radar sensors, Adapting the longitudinal acceleration sensor, Initializing the brake-pressure sensor, Initializing the yaw rate sensor, Resetting headlight leveling adaptation values, Initializing the lateral acceleration sensor, Initializing the adaptive cruise control, Calibrating the camera ECU)
(Mazda 2, DE) (Learning the steering-angle sensor)
(CX-30, DM), (Mazda 3, BP) (Initializing the yaw rate sensor)
- | **Codings**
- | **Service resets**

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

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

Mercedes

- | **Trouble codes** (A-Klasse, 177003), (B-Klasse, 242211), (B-Klasse, 247045), (C-Klasse, 204223), (C-Klasse, 204292), (CLA-Klasse, 118384), (E-Klasse, 213279), (EQS SUV, 296623), (G-Klasse, 463277), (GLA-Klasse, 247746), (GLB-Klasse, 247610), (GLE-Klasse, 167119), (GLK-Klasse, 204993), (GLK-Klasse, 204992), (GLS-Klasse, 167921), (S-Klasse, 222004,222104), (Sprinter, 907621,907623), (Sprinter, 910621,910623), (V-Klasse, 447601,447603,447605), (V-Klasse, 448813)
- | **Parameters** (A-Klasse, 177003), (B-Klasse, 242211), (B-Klasse, 247045), (C-Klasse, 204223), (C-Klasse, 204200), (C-Klasse, 205054), (C-Klasse, 205009), (Citan, 420653,420753), (CLA-Klasse, 118384), (CLS-Klasse, 257321), (E-Klasse, 213279), (EQA, 243701), (EQB, 243708), (EQC, 293890,293891), (EQS SUV, 296623), (G-Klasse, 463277), (GLA-Klasse, 247746), (GLB-Klasse, 247610), (GLC-Klasse, 253905), (GLE-Klasse, 167119), (GLK-Klasse, 204984,204997), (GLK-Klasse, 204901), (GLS-Klasse, 167921), (S-Klasse, 222004,222104), (Sprinter, 907621,907623), (Sprinter, 910621,910623), (T-Klasse, 420853), (V-Klasse, 447601,447603,447605), (V-Klasse, 448813), (X-Klasse, 470210), (X-Klasse, 471210)
- | **Actuators** (C-Klasse, 204), (E-Klasse, 213279), (G-Klasse, 463277), (S-Klasse, 222104)
- | **Basic settings** (B-Klasse, 242211) (Resetting adaptation values of radar sensor rear)
(V-Klasse, 447711,447713,447701,447703) (Resetting the warning message of diesel exhaust fluid level, Resetting learned values of diesel exhaust fluid pump, Initializing diesel exhaust fluid level sensor)
(E-Klasse, 213279) (Actuating the installation/removal position of the parking brake, Learning the power windows, Initializing the adaptive cruise control, Calibrating the camera ECU)
(G-Klasse, 463234) (Resetting the warning message of diesel exhaust fluid level, Fill the DEF tank, Resetting learned values of diesel exhaust fluid pump, Initializing diesel exhaust fluid level sensor, Calibrating the camera ECU)
(S-Klasse, 222104) (Initializing the fuel quantity adjuster, Resetting the fuel low pressure adaptation values, Adapting the SCR catalyst upon replacement, Initializing the low pressure EGR valve, Initializing the soot particulate filter upon engine ECU replacement, Initializing the diesel exhaust fluid injector, Resetting the warning message of diesel exhaust fluid level, Initializing the soot particulate filter, Initializing the oxidation catalyst, Initializing the oxidation catalyst upon engine ECU replacement, Fill the DEF tank, Initializing the intelligent cruise control/emergency brake assistant, Initializing the manual transmission position sensor, Adapting the exhaust gas flap actuator, Initializing the parking brake ECU, Initializing the EGR valve, Initializing the differential pressure sensor, Regenerating the soot particulate

filter during driving, Initializing the mass airflow sensor, Bleeding the fuel system, Resetting the impact mode, Learning the intake port shut-off, Actuating the installation/removal position of the parking brake, Learning the power windows, Resetting the diesel exhaust fluid level, Resetting high-pressure fuel pump adaptation values, Activating the fuel pump, Adjusting the headlights, Learning the lambda sensor, Resetting air filter learned values , HFM drift compensation, Learning throttle valve stop, Resetting the quantity mean value adaptation, Adapting the pressure-regulating valve, Resetting the start inhibitor of DEF injection system, Reset learned values of injectors., Calibrating the zero fuel qty, Reset exhaust-gas aftertreatment learning values, Resetting learned values of NOx sensor, Initializing the neutral position sensor, Checking the transmission fluid level, Resetting learned values of camshaft sensor, Initialising the boost pressure regulator, Initialize tire pressure sensors, Resetting exhaust-gas temperature sensor adaptation values of soot particulate filter, Initializing the exhaust temperature sensor, Initializing the clutch pedal position, Adapting the temperature sensor before SCR catalyst, Resetting the variable turbocharger adaptation values, Initializing the fuel pressure sensor or the fuel rail, Resetting long-term adaptation values of diesel exhaust fluid dosing module, Initializing the adaptive cruise control, Resetting learned values of diesel exhaust fluid pump, Initializing diesel exhaust fluid level sensor, Calibrating the camera ECU, Initializing the high-pressure EGR valve, Adapting the emergency brake assistant, Resetting counter for synchronization loss of crankshaft/camshaft)

(C-Klasse, 204) (Initializing the panoramic roof, Regenerating the soot particulate filter at standstill, Bleeding the fuel system, Resetting learned values of the power window, Learning the power windows, Adjustment drive, automatic distance control, Learning the actuators, Compressor run-in, Initializing the A/C flap actuators, Activating the fuel pump, Adjusting the headlights, Resetting learned values of steering angle sensor, Resetting learned values of steering angle sensor, Learning the steering-angle sensor, Initialising the particle filter, Resetting oxygen sensor adaptation values, Regenerating the soot particulate filter, Resetting Neck-Pro headrests, Checking the transmission fluid level, Initializing lateral/longitudinal/rotation acceleration sensor, Activation/reset of tyre-pressure loss warning indicator, Initialize tire pressure sensors, Initializing the sunroof actuator, Calibrating the camera ECU)

| Codings

(B-Klasse, 242211) (Registering the battery)

(C-Klasse, 204) (Coding the trailer detection, Coding injectors, Coding injectors, Coding the rain/light sensor of windshield, Coding the parking assist)

(G-Klasse, 463234), (S-Klasse, 222104) (Registering the battery, Coding injectors, Coding the rain/light sensor)

| Service resets

(A-Klasse, 177003), (AMG GT, 190377), (AMG GT, 290659), (B-Klasse, 242211), (B-Klasse, 247045), (C-Klasse, 204), (C-Klasse, 205477), (C-Klasse, 205213), (Citan, 420653,420753), (CLA-Klasse, 118384), (CLS-Klasse, 257321), (E-Klasse, 213054), (E-Klasse, 213043), (EQA, 243701), (EQB, 243708), (EQC, 293890,293891), (G-Klasse, 463277), (GLA-Klasse, 247746), (GLB-Klasse, 247610), (GLE-Klasse, 167119), (GLS-Klasse, 167921), (S-Klasse, 217378), (S-Klasse, 222004,222104), (Sprinter, 907621,907623), (Sprinter, 910621,910623), (T-Klasse, 420853), (V-Klasse, 447601,447603,447605), (V-Klasse, 448813), (X-Klasse, 470210), (X-Klasse, 471210)

| **DoIP/CAN-FD** Capable for diagnostics only with mega macs X
 (EQS SUV, 296623), (EQS SUV, 296644), (EQS SUV, 296624)

| **Secured by Cyber Security Management (CSM) system** Capable for diagnostics only with Cyber Security Management
 (AMG GT, 190377), (AMG GT, 190378), (AMG GT, 190379), (AMG GT, 190477), (AMG GT, 190480), (AMG GT, 190380), (AMG GT, 190478), (AMG GT, 290659), (AMG GT, 290661), (AMG GT, 290688), (AMG GT, 290689), (E-Klasse, 213054), (E-Klasse, 213011), (E-Klasse, 213023), (E-Klasse, 213), (E-Klasse, 213206), (E-Klasse, 213008), (E-Klasse, 213253), (AMG GT, 190479), (E-Klasse, 213016), (E-Klasse, 213211), (AMG GT, 290658), (AMG GT, 190381), (AMG GT, 190382), (E-Klasse, 213279), (E-Klasse, 213227), (E-Klasse, 213216), (E-Klasse, 213223), (Citan, 420653,420753), (Citan, 420663,420763), (Citan, 420613,420713), (Citan, 420623,420723), (Citan, 420633), (AMG GT, 290679), (T-Klasse, 420853), (T-Klasse, 420823), (T-Klasse, 420863), (T-Klasse, 420833), (EQS SUV, 296623), (EQS SUV, 296644), (EQS SUV, 296624)

MG Motors

| **Trouble codes** (Marvel R, EP21), (ZS, ZS1)

| **Parameters** (Marvel R, EP21), (ZS, ZS1)

| **Actuators**

| **Basic settings** (Marvel R, EP21), (ZS, ZS1) (Calibrating the camera ECU)

| **Codings**

| **Service resets**

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

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

Mitsubishi

| **Trouble codes**

| **Parameters**

| **Actuators**

| **Basic settings** (Eclipse Cross, GK), (Outlander,), (Outlander, CW) (Parking brake maintenance work)

| **Codings**

| **Service resets**

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

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

Opel/Vauxhall

| **Trouble codes** (Astra-K, B16), (Grandland X, A18), (Insignia-B, Z18)

| **Parameters** (Grandland X, A18), (Insignia-B, Z18)

| **Actuators** (Astra-K, B16), (Grandland X, A18)

| **Basic settings** (Corsa-F, X20), (Mokka-B, U), (Vivaro-C, EK0), (Zafira-Life, EK0) (Performing basic setting of high-voltage battery module)

(Insignia-B, Z18) (Regenerating the soot particulate filter, Initializing the fuel pump, Resetting oxygen sensor heater adaptation values, Resetting learned values of the induction system, Resetting adaptation values of idle airflow rate, Resetting data of excessive clutch slip, Initializing the electric coolant pump, Initializing the coolant valve, Initializing the coolant control valve, Initializing the brake-pedal travel sensor, Calibrating the front camera, Resetting learned values of the oxidation catalyst, Resetting learned values of fuel pressure regulator, Initializing the rotation rate/acceleration sensor, Resetting the particulate filter learning values, Resetting the mixture adjustment, Initializing the gear sensor, Learning low injection quantity, Initializing the crankshaft position, Resetting the mixture adjustment, Reset fuel pump learning values, Resetting oxygen sensor adaptation values, Initializing the neutral position sensor, Resetting differential pressure sensor learning values, Resetting the soot particulate filter, Calibrating the parking brake, Initialising the boost pressure regulator, Learning the fuel pressure regulator, De/activating the electric parking brake service mode, Resetting exhaust-gas temperature sensor adaptation values of soot particulate filter, Initializing the clutch pedal position, Calibrating the rearview camera/all-round vision camera, Resetting low injection quantity, Resetting the outside temperature sensor, Resetting the trouble code memory of camera)

(Combo-E, X19), (Crossland X, P17) (Resetting the knock counter, De/activating the parking brake service mode)

(Grandland X, A18) (Resetting the knock counter, Learning the turbocharger, Calibrating the front camera, Resetting boost pressure controller learned values, Resetting the ECU, Initializing the rotation rate/acceleration sensor, Learning the throttle valve, Replace cylinder head, De-standardizing the liftgate, De/activating the parking brake service mode, Learning

the N position of gearbox, Initializing the DeNOx system, Adjusting the headlights, Learning the steering-angle sensor, Leaving the ECO mode, Calibrating the parking brake, Resetting the accelerator sensor learning values, Calibrating the radar sensor, Initialising the boost pressure regulator, Learning the flywheel, Resetting starter learning values, Resetting battery discharging current values, Calibrating the rearview camera/all-round vision camera, Initializing the alternator)

(Astra-K, B16) (De/activating the parking brake service mode, Calibrating the parking brake, Special bleeding, Bleeding the brake system)

| **Codings** (Insignia-B, Z18) (Coding injectors)
(Grandland X, A18) (Coding the trailer hitch)

| **Service resets** (Grandland X, A18), (Insignia-B, Z18)

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

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

Peugeot

| **Trouble codes** (308, L)

| **Parameters** (308, F), (308, L)

| **Actuators** (308, F), (308, L)

| **Basic settings** (308, L) (Reactivating the emergency brake assistant, Bleeding the ABS/ESC system, Locking the airbag ECU, Unlocking the airbag ECU, Adapting the longitudinal acceleration sensor, Adjusting the headlights, Initializing the power window anti-pinch protection, Performing transmission adaptations, Initializing the fuel level, Initializing the A/C flap actuators, Learning the steering-angle sensor, Leaving the ECO mode, Calibrating the radar sensor, Initializing the rain/light sensor, Calibrating the camera ECU, Replacing engine parts, Replace brake parts)
(Bipper, A) (Performing transmission adaptations)
(5008, 0A) (Replacing the diesel exhaust fluid pump)
(2008, U), (208, U), (3008, M), (308, F), (508, F), (Expert-IV, V), (Partner-IV, E), (Rifter, E), (Traveller, V) (Performing basic setting of high-voltage battery module)

| **Codings** (308, F) (Coding the keys)

(308, L) (Coding the trailer hitch, Registering the battery, Coding the remote control, Coding the intrusion monitoring, Coding the alarm sound, Coding the keys, Deactivating/activating the transport mode, Coding transmission readings)

| **Service resets** (308, L)

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

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

Porsche

| **Trouble codes**

| **Parameters** (911 (992), 992), (Cayenne (9Yx), 9YA), (Cayenne (9Yx), 9YB), (Panamera (971), 971), (Taycan (Y1A), Y1A)

| **Actuators** (911 (992), 992), (Taycan (Y1A), Y1A)

| **Basic settings** (911 (992), 992), (Cayenne (9Yx), 9YA), (Cayenne (9Yx), 9YB), (Macan (95B), 95B), (Panamera (971), 971), (Taycan (Y1A), Y1A) (Parking brake maintenance work)

| **Codings**

| **Service resets**

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

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

Renault

 Trouble codes	(Captur-I, J5M0), (Captur-II, RJB), (Clio-V, RJA), (Espace-IV, JK1J,JK1F,JKFJ,JK01,JK04), (Kadjar, HLA6), (Master-III, EV0E,FV0E,FV0H,HV0E,UV0E), (Megane-III, KZ1G), (Scenic-III, JZ42), (Trafic-III, FGMD,FGME,JGMD,JGME), (Wind, E4M_)
 Parameters	(Captur-I, J5M0), (Captur-II, RJB), (Clio-V, RJA), (Espace-IV, JK1J,JK1F,JKFJ,JK01,JK04), (Kadjar, HLA6), (Master-III, EV0E,FV0E,FV0H,HV0E,UV0E), (Megane-III, KZ1G), (Scenic-III, JZ42), (Trafic-III, FGMD,FGME,JGMD,JGME), (Wind, E4M_)
 Actuators	(Captur-I, J5M0), (Captur-II, RJB), (Clio-V, RJA), (Espace-IV, JK1J,JK1F,JKFJ,JK01,JK04), (Kangoo-II, KW05), (Master-III, EV0E,FV0E,FV0H,HV0E,UV0E), (Megane-III, KZ1G), (Scenic-III, JZ42), (Trafic-III, FGMD,FGME,JGMD,JGME), (Wind, E4M_), (Zoe, FFMF)
 Basic settings	<p>(Twingo-III, BCA1), (Zoe, BFMC,BFMD) (Initializing the rotor position sensor)</p> <p>(Wind, E4MC) (Learning throttle valve stop, Initializing the ESC sensors, Calibrating the steering-angle sensor, Initializing the starter ring gear, Bleeding the brake system)</p> <p>(Captur-II, RJB) (Learning the throttle valve, Regenerating the soot particulate filter, Resetting the start counter, Calibrate radar dynamically, Calibrating rear radar sensors, Bleeding the ABS hydraulic unit, Learning the steering-angle sensor, Initializing the starter ring gear, After particulate filter replacement, Resetting learned values of camshaft sensor, Resetting starter learning values, De/activating the parking brake service mode, Calibrating the camera ECU)</p> <p>(Captur-I, 2RA1,2RB1,2RD1,2RE1) (Adapting the clutch assembly)</p> <p>(Clio-V, RJA) (Regenerating the soot particulate filter, Resetting the start counter, Calibrate radar dynamically, Calibrating rear radar sensors, Bleeding the ABS hydraulic unit, Learning the steering-angle sensor, Learning the throttle valve, Initializing the starter ring gear, After particulate filter replacement, Resetting learned values of camshaft sensor, Resetting starter learning values, De/activating the parking brake service mode, Calibrating the camera ECU)</p> <p>(Megane-III, KZ1W), (Scenic-III, JZ42) (Reset low-pressure EGR learned values, Regenerating the soot particulate filter, Adapting the clutch assembly, Position the 4-wheel steering in straight forward position, Calibrate radar dynamically, Initializing the EGR valve, Initializing the differential pressure sensor, Initializing the mass airflow sensor, Initializing the exhaust gas flap, Initializing the intake-air flap, Resetting high-pressure fuel pump adaptation values, Self-adaptation of A/C system, Learning the lambda sensor, Resetting learned values of steering angle sensor, Learning the steering-angle sensor, After particulate filter replacement, Resetting starter learning values, Initializing the ride height sensor, Initializing the fuel pressure sensor or the fuel rail, De/activating the parking brake service mode, Calibrating the camera ECU)</p> <p>(Espace-IV, JK1J,JK1F,JKFJ,JK01,JK04) (Regenerating the soot particulate filter, Initializing the soot particulate filter upon replacement, Initializing the differential pressure sensor, Bleeding the ABS hydraulic unit, Initializing the mass airflow sensor, Resetting EGR valve learning values, Resetting gearbox learning values, Initializing the brake-pressure sensor, Initializing the fuel high-pressure sensor, Adapting the clutch biting point, Reset learned values of intake-air flap., Reset learned values of the EGR bypass valve, Initializing the lateral acceleration sensor, Learning the lambda sensor, Learning the steering-angle sensor, Learning the flywheel, Initializing the ride height sensor, De/activating the parking brake service mode, Adapting the ABS ring gear)</p> <p>(Master-III, UV0H) (Reset learned values of the EGR bypass valve, Initializing the air distribution flaps)</p> <p>(Kadjar, HLMH) (Adapting the clutch assembly, Resetting the gearbox oil ageing counter)</p>

(Twingo-II, CN0A) (Initializing the ESC sensors, Resetting the mixture adjustment, Resetting knock sensor adaptation values, Initializing the starter ring gear, Resetting learned values of camshaft sensor, Adapting the variable camshaft timing, Resetting the ignition coil adaptation)

| Codings

(Twingo-III, BCA1), (Zoe, BFMC,BFMD) (Coding the electric drive motor)

(Megane-III, KZ1G), (Scenic-III, JZ42) (Airbag ECU locking/unlocking , De/activating the trailer hitch, Adapting the trailer hitch to advanced driver assistance systems, Code trailer stability program, Coding injectors, Switching on/off the automatic parking brake application, Coding the country version, Coding instrument cluster units, Coding the language version, Coding the tire size)

(Captur-II, RJB), (Clio-V, RJA) (Airbag ECU locking/unlocking , Adapting the trailer hitch to advanced driver assistance systems, Switching on/off the automatic parking brake application, Coding instrument cluster units, Coding the language version, Coding the tire size)

(Wind, E4M_) (Airbag ECU locking/unlocking , Locking the injection valves, Unlocking the injection valves, Coding the ABS/ESC ECU, Coding the tire size)

(Espace-IV, JK1J,JK1F,JKFJ,JK01,JK04) (Coding the ABS ECU, Airbag ECU locking/unlocking , Coding automatic lighting up of brake light, Coding injectors, Coding the parking brake ECU, Switching on/off the automatic parking brake application, Coding the clutch slipping point, Coding the tire pressure check, Coding the wheel sets (summer/winter), Coding the wheel valves, Coding the language version, Coding the demanded tire pressure)

(Master-III, UV0H) (Coding the language version)

| Service resets

(Espace-IV, JK1J,JK1F,JKFJ,JK01,JK04), (Megane-III, KZ1G), (Scenic-III, JZ42)

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

| Secured by Cyber Security Management (CSM) system Capable for diagnostics only with Cyber Security Management

(Zoe, FFMF), (Zoe, BFMC,BFMD), (Clio-V, RJA), (Clio-V, B7MT), (Twingo-III, BCA1), (Captur-II, RJB)

Seat

| Trouble codes

| Parameters

| Actuators

| Basic settings

(Altea, 5P), (Ibiza, 6J), (Leon, 1P), (Toledo, 5P), (Toledo, KG) (Activating the central locking system)

(Alhambra, 71) (Activating the central locking system, Parking brake maintenance work)

(Ateca, KH), (Ibiza, KJ), (Leon, 5F), (Leon, KL), (Tarraco, KN) (Parking brake maintenance work)

| **Codings** (Arona, KJ), (Ateca, KH), (Exeo, 3R), (Ibiza, 6P), (Ibiza, KJ), (Leon, 5F), (Tarraco, KN) (Synchronisation of the remote control)

| **Service resets** (Ibiza, 6P), (Ibiza, KJ), (Leon, 5F), (Leon, KL), (Toledo, KG)

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

| **Secured by Cyber Security Management (CSM) system** Capable for diagnostics only with Cyber Security Management (Leon, KL)

Skoda

| **Trouble codes**

| **Parameters**

| **Actuators**

| **Basic settings** (Octavia, NX) (Resetting the impact mode, Parking brake maintenance work)
 (Enyaq, 5A), (Karoq, NU), (Kodiaq, NS), (Octavia, 5E) (Parking brake maintenance work)
 (Fabia, 54), (Octavia, 1Z), (Rapid, NH), (Roomster, 5J), (Superb, 3T), (Yeti, 5L) (Activating the central locking system)
 (Superb, 3V) (Parking brake maintenance work, Calibrating the camera ECU)

| **Codings** (Fabia, NJ), (Fabia, PJ), (Kamiq, NW), (Karoq, NU), (Kodiaq, NS), (Octavia, 5E), (Scala, NW) (Synchronisation of the remote control)

| **Service resets** (Enyaq, 5A), (Fabia, PJ), (Octavia, 5E), (Octavia, NX), (Rapid, NH)

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

| **Secured by Cyber Security Management (CSM) system** Capable
for diagnostics
only with Cyber Security Management
(Enyaq, 5A), (Octavia, NX)

Smart/MCC

| **Trouble codes** (Smart Forfour, 453091), (Smart Fortwo, 453391)

| **Parameters** (Smart Forfour, 453091), (Smart Fortwo, 453391)

| **Actuators**

| **Basic settings**

| **Codings**

| **Service resets**

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

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

Subaru

| **Trouble codes** (Forester, SK), (Impreza, G5), (XV, G5)

| **Parameters** (Forester, SK), (Impreza, G5), (Legacy/Outback, BT), (XV, G5)

| **Actuators** (Impreza, G5), (Legacy/Outback, BT), (XV, G5)

| **Basic settings** (Forester, SK) (De/activating the parking brake service mode)
(Impreza, G4) (Initializing the rain/light sensor)

| Codings

| Service resets

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

| Secured by Cyber Security Management (CSM) system Capable for diagnostics only with Cyber Security Management

Suzuki

| **Trouble codes** (Baleno, EW), (Ignis, MF), (Jimny, GJ), (S-Cross, AKK414), (S-Cross, JY), (Swift, AZ), (Swift, FZ), (Swift, NZ), (SX4, JY), (Vitara, LY)

| **Parameters** (Baleno, EW), (Ignis, MF), (S-Cross, AKK414), (S-Cross, JY), (Swift, AZ), (SX4, JY), (Vitara, LY)

| **Actuators** (Ignis, MF), (Jimny, GJ), (S-Cross, AKK414), (S-Cross, JY), (Swift, AZ), (Vitara, LY)

| **Basic settings** (SX4, JY) (Calibrating the camera ECU)
 (S-Cross, JY) (Registering the front radar sensor, Calibrating the radar sensor, Initializing the ride height sensor, Configuring the lane change assist, Calibrating the camera ECU)
 (Swift, AZ) (Initializing the ride height sensor, Configuring the lane change assist, Calibrating the camera ECU)
 (Ignis, MF), (Jimny, GJ) (Initializing the ride height sensor, Calibrating the camera ECU)
 (S-Cross, AKK414), (Vitara, LY) (Resetting the start counter, Registering the front radar sensor, Calibrating the radar sensor, Initializing the ride height sensor, Configuring the lane change assist, Calibrating the camera ECU)

| Codings

| **Service resets** (S-Cross, AKK414), (S-Cross, JY), (Vitara, LY)

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

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

Toyota

| **Trouble codes** (Auris, ADE186L), (Auris, NDE180), (Auris, NDE180L), (Auris, NRE180), (Auris, NRE180L), (Auris, NRE185L), (Auris, NZE181), (Auris, NZE184), (Auris, WWE185), (Auris, WWE185L), (Auris, ZRE152,ZWE150), (Auris, ZRE185L), (Auris, ZRE186), (Auris, ZWE186L), (Aygo, KGB70), (C-HR, NGX10L), (C-HR, NGX50), (C-HR, NGX50L), (C-HR, ZGX10), (C-HR, ZGX10L), (C-HR, ZGX11), (C-HR, ZGX50L), (C-HR, ZYX10L), (Camry, ACV51), (Camry, ASV40), (Camry, ASV50), (Camry, ASV51), (Camry, ASV70), (Camry, AVV50), (Camry, AXVA70), (Camry, AXVH70), (Camry, AXVH71), (Camry, GSV40), (Camry, GSV50), (Camry, GSV70), (Corolla, MXGH10,MXGH12), (Corolla, MXGH15), (Hiace, GDH320), (Hiace, GRH320,GRH322), (Highlander, ASU50L), (Highlander, ASU55L), (Highlander, AXUH78), (Highlander, GSU55L), (Highlander, GSU70), (Highlander, GSU75), (Highlander, GUV58), (Hilux, GUN1), (Hilux, GUN126), (Hilux, GUN136,GUN156), (Hilux, TGN126), (Land Cruiser, GDJ15), (Land Cruiser, J20A), (Land Cruiser, KDJ155), (Land Cruiser, URJ200), (Land Cruiser, VDJ15), (Mirai, JPD10L), (Prius, NHW20), (Prius, ZVW30), (Prius, ZVW35), (Prius, ZVW40), (Prius, ZVW41L), (Prius, ZVW50), (Prius, ZVW51), (Prius, ZVW52), (Prius, ZVW52L), (RAV 4, ALA40), (RAV 4, ALA41), (RAV 4, ALA49), (RAV 4, ASA44), (RAV 4, ASA44R), (RAV 4, AVA42L), (RAV 4, AVA44), (RAV 4, AVA44L), (RAV 4, AXAH52), (RAV 4, AXAH54), (RAV 4, AXAP54), (RAV 4, MXAA52), (RAV 4, MXAA54), (RAV 4, WWA42L), (RAV 4, ZSA4), (RAV 4, ZSA44), (RAV 4, ZSA44L), (Sienna, GSL30), (Supra, DB21,DB22), (Supra, DB41,DB42,DB43), (Supra, DB81,DB82), (Venza, AGV10), (Venza, AGV15), (Yaris, GXPA16), (Yaris, KSP130), (Yaris, KSP130L), (Yaris, KSP211), (Yaris, MXPA11), (Yaris, MXPB10), (Yaris, MXP10,MXP11), (Yaris, MXPJ10), (Yaris, MXPJ15), (Yaris, NLP130), (Yaris, NLP90), (Yaris, NSP130), (Yaris, NSP90)

| **Parameters** (Auris, ADE186L), (Auris, NDE180), (Auris, NDE180L), (Auris, NRE180), (Auris, NRE180L), (Auris, NRE185L), (Auris, NZE181), (Auris, NZE184), (Auris, WWE185), (Auris, WWE185L), (Auris, ZRE152,ZWE150), (Auris, ZRE185L), (Auris, ZRE186), (Auris, ZWE186L), (Aygo, KGB70), (C-HR, NGX10L), (C-HR, NGX50), (C-HR, NGX50L), (C-HR, ZGX10), (C-HR, ZGX10L), (C-HR, ZGX11), (C-HR, ZGX50L), (C-HR, ZYX10L), (Camry, ASV40), (Camry, ASV50), (Camry, ASV51), (Camry, ASV70), (Camry, AVV50), (Camry, AXVA70), (Camry, AXVH70), (Camry, AXVH71), (Camry, GSV50), (Camry, GSV70), (Corolla, MXGH10,MXGH12), (Corolla, MXGH15), (Hiace, GDH320), (Hiace, GRH320,GRH322), (Highlander, ASU50L), (Highlander, ASU55L), (Highlander, AXUH78), (Highlander, GSU55L), (Highlander, GSU70), (Highlander, GSU75), (Highlander, GUV58), (Hilux, GUN1), (Hilux, GUN126), (Hilux, GUN136,GUN156), (Hilux, TGN126), (Land Cruiser, GDJ15), (Land Cruiser, J20A), (Land Cruiser, KDJ155), (Land Cruiser, URJ200), (Land Cruiser, VDJ15), (Mirai, JPD10L), (Prius, NHW20), (Prius, ZVW30), (Prius, ZVW35), (Prius, ZVW40), (Prius, ZVW41L), (Prius, ZVW50), (Prius, ZVW51), (Prius, ZVW52), (Prius, ZVW52L), (RAV 4, ALA40), (RAV 4, ALA41), (RAV 4, ALA49), (RAV 4, ASA44), (RAV 4, ASA44R), (RAV 4, AVA42L), (RAV 4, AVA44), (RAV 4, AVA44L), (RAV 4, AXAH52), (RAV 4, AXAH54), (RAV 4, AXAP54), (RAV 4, MXAA52), (RAV 4, MXAA54), (RAV 4, WWA42L), (RAV 4, ZSA4), (RAV 4, ZSA44), (RAV 4, ZSA44L), (Sienna, GSL30), (Supra, DB21,DB22),

(Supra, DB41,DB42,DB43), (Supra, DB81,DB82), (Venza, AGV10), (Venza, AGV15), (Yaris, GXPA16), (Yaris, KSP130), (Yaris, KSP130L), (Yaris, KSP211), (Yaris, MXP11), (Yaris, MXPB10), (Yaris, MXP10,MXP11), (Yaris, MXPJ10), (Yaris, MXPJ15), (Yaris, NLP130), (Yaris, NLP90), (Yaris, NSP130), (Yaris, NSP90)

Actuators

(Auris, NRE185L), (Auris, ZWE186L), (Aygo, KGB70), (C-HR, NGX10L), (C-HR, NGX50), (C-HR, NGX50L), (C-HR, ZGX10), (C-HR, ZGX10L), (C-HR, ZGX11), (C-HR, ZGX50L), (C-HR, ZYX10L), (Camry, ASV40), (Camry, ASV50), (Camry, ASV51), (Camry, ASV70), (Camry, AVV50), (Camry, AXVA70), (Camry, AXVH70), (Camry, AXVH71), (Camry, GSV50), (Camry, GSV70), (Corolla, MXGH10,MXGH12), (Corolla, MXGH15), (Hiace, GDH320), (Hiace, GRH320,GRH322), (Highlander, ASU50L), (Highlander, AXUH78), (Highlander, GSU55L), (Highlander, GVU58), (Hilux, GUN1), (Hilux, GUN126), (Hilux, GUN136,GUN156), (Hilux, TGN126), (Land Cruiser, KDJ155), (Land Cruiser, URJ200), (Land Cruiser, VDJ15), (Mirai, JPD10L), (Prius, ZVW50), (Prius, ZVW51), (Prius, ZVW52), (Prius, ZVW52L), (RAV 4, ALA49), (RAV 4, WWA42L), (RAV 4, ZSA4), (Sienna, GSL30), (Supra, DB21,DB22), (Supra, DB41,DB42,DB43), (Supra, DB81,DB82), (Venza, AGV10), (Venza, AGV15)

Basic settings

(Proace, E), (Proace, MDZ), (Proace, MPY) (Performing basic setting of high-voltage battery module)

(Supra, DB41,DB42,DB43) (Adapt shifting speed regulation, Reset equipment variant, Resetting the impact counter of pedestrian protection system, Unlocking the electric auxiliary heater, Initialize minimum quantity deviation of the injectors, Resetting the valve stroke adaptation initialization values, Adjusting the boost control rod, Activating the assembly position of the exhaust gas flap actuator, Initializing the valve stroke adaptation, Taking the steering into operation, Initializing the variable valve lift, Resetting gearbox learning values, Unlocking aux. heater/independent car heater, Initializing the exhaust gas flap, Resetting learned values of throttle valve actuator, Learning the power windows, De/activating the parking brake service mode, Resetting the mixture adjustment, Initializing the gear sensor, Resetting differential pressure sensor learning values, Adapting the A/C compressor, Resetting fuel system adaptation values, Activating the fuel pump, Resetting the pulse-generator ring adaptation, Calibrating the radar sensor, Initializing the rain/light sensor, Resetting starter learning values, Calibrating the front camera, Bleeding the brake system, Initialize acceleration sensor, Adapting the variable camshaft timing, Calibrating the rearview camera/all-round vision camera)

(Supra, DB21,DB22), (Supra, DB81,DB82) (Resetting the impact counter of pedestrian protection system, Unlocking the electric auxiliary heater, Resetting the valve stroke adaptation initialization values, Adjusting the boost control rod, Taking the steering into operation, Initializing the variable valve lift, Resetting gearbox learning values, Unlocking aux. heater/independent car heater, Resetting learned values of throttle valve actuator, Learning the power windows, De/activating the parking brake service mode, Resetting the mixture adjustment, Adapting the A/C compressor, Resetting fuel system adaptation values, Resetting the pulse-generator ring adaptation, Calibrating the radar sensor, Initializing the rain/light sensor, Calibrating the front camera, Bleeding the brake system, Adapting the variable camshaft timing, Calibrating the rearview camera/all-round vision camera)

(Aygo, KGB70) (Learning the steering-angle sensor, Initializing the yaw rate sensor, Calibrating the radar sensor, Calibrating the camera ECU)

(Corolla, MXGH10,MXGH12), (Corolla, MXGH15) (Regenerating the soot particulate filter, Registering the parking assist, Resetting parking brake adaptation values, Resetting the particulate filter learning values, De/activating the parking brake service mode, Resetting adaptation values of ABS ECU, Calibrating the parking brake, Adapting the brake system, Calibrating the radar sensor, Service mode (engine immobilizer can be deactivated > gasoline engine runs), Configuring the lane change assist, Calibrating the camera ECU)

Codings

(Corolla, MXGH10,MXGH12), (Corolla, MXGH15) (Coding the wheel valves)

(Supra, DB21,DB22), (Supra, DB81,DB82) (Registering the battery)
 (Supra, DB41,DB42,DB43) (Registering the battery, Coding injectors)

Service resets

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

**Secured by Cyber
 Security Management
 (CSM) system** Capable
 for diagnostics
 only with Cyber
 Security
 Management

Volkswagen

Trouble codes (Passat, 3B)

Parameters (Crafter, 2E), (Crafter, 2F), (Passat, 3B)

Actuators (Crafter, 2E), (Crafter, 2F), (Passat, 3B)

Basic settings (Amarok, 2H) (Activating the central locking system, Adapting the longitudinal acceleration sensor)

(Caddy, SA) (Activating the central locking system, Special bleeding)

(Arteon, 3H), (Caddy, SB), (CC, 35), (Golf7, 5G), (Golf7, AM), (Golf7, AN), (Golf7, BA), (Golf7, BE), (Golf7, BQ), (Golf7, BV), (Golf8, CG), (ID.3, E1), (ID.4, E2), (ID.5, E3), (ID.Buzz, EB), (Jetta, 16), (Passat, 36), (Passat, 3G), (Passat, CB), (T-Roc, A1), (T-Roc, AC), (T-Roc, D1), (Tiguan, AX), (Tiguan, BJ), (Touran, 5T) (Parking brake maintenance work)

(Tiguan, AD), (Tiguan, BW), (Transporter, ST) (Parking brake maintenance work, Calibrating the camera ECU)

(Bora, 1J) (Test of lambda status probe 1 + 2, Checking learned values of oxygen sensor before catalyst, Test of lambda controller before CAT, Check lambda ageing bank 1 before catalyst, Checking oxygen sensor (bank 2) before catalyst, Test of lambda controller after CAT, Testing lambda-conversion bank 1, Test of secondary air valve bank 1)

(Passat, 3B) (Learning the throttle valve, Resetting gearbox learning values, Check lambda ageing bank 1 before catalyst, Check lambda ageing bank 2 before catalyst, Checking oxygen sensor (bank 2) before catalyst)

(CC, 3C), (Golf6, 5K), (Passat, 3C), (Sharan, 7N), (Tiguan, 5N) (Activating the central locking system, Parking brake maintenance work)

(Touareg, CR) (Special bleeding, Parking brake maintenance work)

(Golf8, CD) (Resetting the impact mode, Parking brake maintenance work)

(Caddy, 2C), (Caddy, 2K), (Eos, 1F), (Golf5, 1K), (Golf6, 52), (Golf6, AJ), (Jetta, 1K), (New Beetle, 5C), (Polo, 6R), (Scirocco, 13), (Touran, 1T), (Transporter, 7E), (Transporter, 7F), (Transporter, 7H), (Transporter, 7J) (Activating the central locking system)

| Codings

(Passat, 3B) (Coding the ABS ECU, Coding the ABS ECU (Bosch), Activating cruise control, Deactivating cruise control, Coding the transmission ECU, Coding the ACC, Coding the engine ECU, Coding the radio, Coding the keys, Coding the language version of instrument cluster, Variable service interval coding, Adapting immobiliser to engine ECU)

(Golf7, 5G), (Golf7, AM), (Golf7, AN), (Golf7, BA), (Golf7, BE), (Golf7, BQ), (Golf7, BV), (Polo, 6C), (Polo, AE), (Polo, AW), (T-Cross, C1), (T-Roc, A1), (T-Roc, AC), (T-Roc, D1), (Taigo, CS), (Tiguan, AD), (Tiguan, AX), (Tiguan, BJ), (Tiguan, BW), (Touran, 5T) (Synchronisation of the remote control)

(Transporter, SF), (Transporter, SG) (Coding the radio remote control)

| Service resets

(Caddy, SB), (Crafter, SC), (Crafter, SX), (Crafter, SY), (Crafter, SZ), (Golf7, 5G), (Golf7, AM), (Golf7, AN), (Golf7, BA), (Golf7, BE), (Golf7, BQ), (Golf7, BV), (Golf8, CD), (Golf8, CG), (ID.3, E1), (ID.4, E2), (ID.5, E3), (ID.Buzz, EB), (Polo, 6C), (Polo, AE), (T-Roc, AC), (T-Roc, D1), (Taigo, CS), (Tiguan, AX), (Tiguan, BJ), (Touareg, CR), (Transporter, SH), (Transporter, SJ), (Transporter, ST)

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

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

(Golf8, CD), (ID.3, E1), (ID.4, E2), (Caddy, SB), (Transporter, ST), (Golf8, CG), (ID.5, E3), (ID.Buzz, EB)

Volvo

| Trouble codes

(C40, X), (XC40, XZ)

| Parameters

(C40, X), (XC40, XZ)

| Actuators

(XC40, XZ)

| Basic settings

(XC40, XZ) (Resetting the air-fuel ratio adaptation values, Calibrating the compass in the interior rear-view mirror, Resetting neutral position sensor adaptation values, Resetting learned values of side obstacle detection, Initializing ride height sensors, Resetting learned values of the battery monitoring ECU, Learning the steering-angle sensor, Resetting gearbox learning values, De/activating the parking brake service mode, Learning the brake pedal position, Changing automatic transmission fluid, Resetting brake system adaptation values, Identifying new A/C components, Initializing the A/C flap actuators, Calibrating the camera and radar system, Resetting the tire pressure monitoring, Initializing the sunroof actuator, Resetting adaptation values of electromechanical power steering, Bleeding the transfer case oil pump, Initialize acceleration sensor, Resetting rear-axle differential adaptation values, Resetting learned values of ABS hydraulic unit, Calibrating the rearview camera/all-round vision camera)

(C40, X) (Initializing the air distribution flap actuator, Resetting learned values of the battery monitoring ECU, Calibrating the radar sensor, De/activating the parking brake service mode)

| **Codings**

| **Service resets** (C40, X), (XC40, XZ)

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

| **Secured by Cyber
Security Management
(CSM) system** Capable
for diagnostics
only with Cyber
Security
Management (C40, X)

HELLA GUTMANN SOLUTIONS GMBH

Am Krebsbach 2

79241 Ihringen

GERMANY

Phone: +49 7668 9900-0

Fax: +49 7668 9900-3999

info@hella-gutmann.com

www.hella-gutmann.com

© 2023 HELLA GUTMANN SOLUTIONS GMBH