



## VW, AUDI, SEAT, SKODA (VAG Groups) 1990 – 2013

OBDII / 2x2 connector, CAN / non-CAN protocol, Diagnosis / Data / Activation / Adaptation / Basic Setting / Coding / Login

**Version: 2013.07 Date: AUG., 2013**

**Vehicles: VW®, AUDI®, SEAT®, SKODA® (CAN and non-CAN systems)**

### MODELS BETWEEN 1990 – 2002

SYSTEMS	DATA STREAM	READ / CLEAR FAULT CODES	BASIC SETTING	ADAPTATION	ACTIVATION	SIGNAL DATA READ	LOGIN ECU	CODING ECU	READINESS	SERVICE RESET	ECU ID
<b>ENGINE\Power transmission system</b>											
Engine	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓
Engine II	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓
Engine electronics III	✓	✓	✓	✓	✓	✓	✓	✓			✓
Engine electronics Others	✓	✓	✓	✓	✓	✓	✓	✓			✓
Diesel Engine	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓
Electro drive	✓	✓	✓	✓	✓	✓	✓	✓			✓
Battery Regulation	✓	✓	✓	✓	✓	✓	✓	✓			✓
Battery Charger	✓	✓	✓	✓	✓	✓	✓	✓			✓
Auto. Transmission	✓	✓	✓	✓	✓	✓	✓	✓			✓
Electronic Clutch	✓	✓	✓	✓	✓	✓	✓	✓			✓
4 Wheel Drive	✓	✓	✓	✓	✓	✓	✓	✓			✓
Lock electronics	✓	✓	✓	✓	✓	✓	✓	✓			✓
OBD-II	✓	✓	Freeze Frame	Scan Waveform	O2 Monitoring						✓
<b>Chassis system</b>											
ABS \ Brakes electronics	✓	✓	✓	✓	✓	✓	✓	✓			✓
Distance control	✓	✓	✓	✓	✓	✓	✓	✓			✓
Brake booster	✓	✓	✓	✓	✓	✓	✓	✓			✓
Brake booster assistance	✓	✓	✓	✓	✓	✓	✓	✓			✓

SYSTEMS	DATA STREAM	READ / CLEAR FAULT CODES	BASIC SETTING	ADAPTATION	ACTIVATION	SIGNAL DATA READ	LOGIN ECU	CODING ECU	READINESS	SERVICE RESET	ECU ID
Parking brake	✓	✓	✓	✓	✓	✓	✓	✓			✓
Steering angle	✓	✓	✓	✓	✓	✓	✓	✓			✓
Electronic Suspension \ Wheel dampening electronics	✓	✓	✓	✓	✓	✓	✓	✓			✓
Traction Control \ Anti Slip regulation	✓	✓	✓	✓	✓	✓	✓	✓			✓
Level control	✓	✓	✓	✓	✓	✓	✓	✓			✓
Steering assistance	✓	✓	✓	✓	✓	✓	✓	✓			✓
Rear spoiler	✓	✓	✓	✓	✓	✓	✓	✓			✓
Stabilizers	✓	✓	✓	✓	✓	✓	✓	✓			✓
Vehicle control system	✓	✓	✓	✓	✓	✓	✓	✓			✓
<b>BODY</b>											
SRS \ Airbags	✓	✓	✓	✓	✓	✓	✓	✓			✓
Vertical headlight aim control	✓	✓	✓	✓	✓	✓	✓	✓			✓
Tire Pressure monitoring	✓	✓	✓	✓	✓	✓	✓	✓			✓
Driver-side door	✓	✓	✓	✓	✓	✓	✓	✓			✓
Passenger-side door	✓	✓	✓	✓	✓	✓	✓	✓			✓
Left rear door	✓	✓	✓	✓	✓	✓	✓	✓			✓
Right rear door	✓	✓	✓	✓	✓	✓	✓	✓			✓
Auxiliary fuel tank	✓	✓	✓	✓	✓	✓	✓	✓			✓
Sliding door right	✓	✓	✓	✓	✓	✓	✓	✓			✓
Active Steering	✓	✓	✓	✓	✓	✓	✓	✓			✓
Sliding door left	✓	✓	✓	✓	✓	✓	✓	✓			✓
<b>Comfort and Convient system</b>											
Central locking	✓	✓	✓	✓	✓	✓	✓	✓			✓
Interior monitoring	✓	✓	✓	✓	✓	✓	✓	✓			✓
Drivers side boarding assistance I \ Driver's Entry Assistance	✓	✓	✓	✓	✓	✓	✓	✓			✓

SYSTEMS	DATA STREAM	READ / CLEAR FAULT CODES	BASIC SETTING	ADAPTATION	ACTIVATION	SIGNAL DATA READ	LOGIN ECU	CODING ECU	READINESS	SERVICE RESET	ECU ID
Drivers side boarding assistance II \ Right Entry Assistance	✓	✓	✓	✓	✓	✓	✓	✓			✓
Auxiliary heater	✓	✓	✓	✓	✓	✓	✓	✓			✓
Passenger side seat adjustment	✓	✓	✓	✓	✓	✓	✓	✓			✓
Steering wheel electronics	✓	✓	✓	✓	✓	✓	✓	✓			✓
Electronic roof controls	✓	✓	✓	✓	✓	✓	✓	✓			✓
Seat adjustment driver side	✓	✓	✓	✓	✓	✓	✓	✓			✓
Convenience Feature \ Central module comfort system	✓	✓	✓	✓	✓	✓	✓	✓			✓
Seat/mirror adjustment	✓	✓	✓	✓	✓	✓	✓	✓			✓
A/C heater electronics	✓	✓	✓	✓	✓	✓	✓	✓			✓
Auxiliary parking heater	✓	✓	✓	✓	✓	✓	✓	✓			✓
Climate control unit rear	✓	✓	✓	✓	✓	✓	✓	✓			✓
Roof electronics	✓	✓	✓	✓	✓	✓	✓	✓			✓
Drivers side seat adjustment, rear	✓	✓	✓	✓	✓	✓	✓	✓			✓
Wiper electronics	✓	✓	✓	✓	✓	✓	✓	✓			✓
Vehicle position detection	✓	✓	✓	✓	✓	✓	✓	✓			✓
Lane change assistant	✓	✓	✓	✓	✓	✓	✓	✓			✓
Tire pressure monitoring II	✓	✓	✓	✓	✓	✓	✓	✓			✓
Lane retention assistant	✓	✓	✓	✓	✓	✓	✓	✓			✓
Rear view camera system	✓	✓	✓	✓	✓	✓	✓	✓			✓
Parallel parking assistance	✓	✓	✓	✓	✓	✓	✓	✓			✓
<b>Electronic system 1</b>											
Access and start authorization	✓	✓	✓	✓	✓	✓	✓	✓			✓
Anti Theft \ Immobilizer	✓	✓	✓	✓	✓	✓	✓	✓			✓
Emergency Call \ Telematics	✓	✓	✓	✓	✓	✓	✓	✓			✓
Radio	✓	✓	✓	✓	✓	✓	✓	✓			✓
Parking aid	✓	✓	✓	✓	✓	✓	✓	✓			✓
Display control unit	✓	✓	✓	✓	✓	✓	✓	✓			✓
Instrument Panel \Dash panel insert	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓

SYSTEMS	DATA STREAM	READ / CLEAR FAULT CODES	BASIC SETTING	ADAPTATION	ACTIVATION	SIGNAL DATA READ	LOGIN ECU	CODING ECU	READINESS	SERVICE RESET	ECU ID
Display control unit, rear	✓	✓	✓	✓	✓	✓	✓	✓			✓
Navigation	✓	✓	✓	✓	✓	✓	✓	✓			✓
Sound System	✓	✓	✓	✓	✓	✓	✓	✓			✓
TV Tuner	✓	✓	✓	✓	✓	✓	✓	✓			✓
Voice control	✓	✓	✓	✓	✓	✓	✓	✓			✓
Telephone	✓	✓	✓	✓	✓	✓	✓	✓			✓
Electronic central electrics	✓	✓	✓	✓	✓	✓	✓	✓			✓
Data Bus On Board Diagnostic Interface	✓	✓	✓	✓	✓	✓	✓	✓			✓
Light control left	✓	✓	✓	✓	✓	✓	✓	✓			✓
Light control right	✓	✓	✓	✓	✓	✓	✓	✓			✓
Automatic light switch	✓	✓	✓	✓	✓	✓	✓	✓			✓
Towing protection	✓	✓	✓	✓	✓	✓	✓	✓			✓
Trailer function	✓	✓	✓	✓	✓	✓	✓	✓			✓
<b>Electronic system 2</b>											
Driver Identification	✓	✓	✓	✓	✓	✓	✓	✓			✓
Speech amplifier	✓	✓	✓	✓	✓	✓	✓	✓			✓
Special function	✓	✓	✓	✓	✓	✓	✓	✓			✓
Data Transfer	✓	✓	✓	✓	✓	✓	✓	✓			✓
Operations	✓	✓	✓	✓	✓	✓	✓	✓			✓
Rear lid electronics	✓	✓	✓	✓	✓	✓	✓	✓			✓
Media Player position 1	✓	✓	✓	✓	✓	✓	✓	✓			✓
Media Player position 2	✓	✓	✓	✓	✓	✓	✓	✓			✓
Media Player position 3	✓	✓	✓	✓	✓	✓	✓	✓			✓
Media Player position 4	✓	✓	✓	✓	✓	✓	✓	✓			✓
Control head RR	✓	✓	✓	✓	✓	✓	✓	✓			✓
Control head LR	✓	✓	✓	✓	✓	✓	✓	✓			✓
Roof Display Control head	✓	✓	✓	✓	✓	✓	✓	✓			✓
Indicator unit in instrument panel insert	✓	✓	✓	✓	✓	✓	✓	✓			✓
Digital radio tuner	✓	✓	✓	✓	✓	✓	✓	✓			✓

SYSTEMS	DATA STREAM	READ / CLEAR FAULT CODES	BASIC SETTING	ADAPTATION	ACTIVATION	SIGNAL DATA READ	LOGIN ECU	CODING ECU	READINESS	SERVIC E RESET	ECU ID
Satellite radio tuner	✓	✓	✓	✓	✓	✓	✓	✓			✓
TV tuner digital	✓	✓	✓	✓	✓	✓	✓	✓			✓
Electronic central electrics II	✓	✓	✓	✓	✓	✓	✓	✓			✓
Information electrics	✓	✓	✓	✓	✓	✓	✓	✓			✓
Comfort System Central Control Module II	✓	✓	✓	✓	✓	✓	✓	✓			✓
Information electronics II	✓	✓	✓	✓	✓	✓	✓	✓			✓

## MODELS BETWEEN 2002 – 2004

SYSTEMS	DATA STREAM	READ / CLEAR FAULT CODES	BASIC SETTING	ADAPTATION	ACTIVATION	VALUE BLOCK	LOGIN ECU	CODING ECU	READINESS	SERVICE RESET	ECU ID
<b>ENGINE/Power transmission system</b>											
Engine	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓
Engine II	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓
Engine electronics III	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓
Engine electronics Others	✓	✓	✓	✓	✓	✓	✓	✓			✓
Diesel Engine	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓
Electro drive	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓
Battery Regulation	✓	✓	✓	✓	✓	✓	✓	✓			✓
Battery Charger	✓	✓	✓	✓	✓	✓	✓	✓			✓
Auto. Transmission	✓	✓	✓	✓	✓	✓	✓	✓			✓
Electronic Clutch	✓	✓	✓	✓	✓	✓	✓	✓			✓
4 Wheel Drive	✓	✓	✓	✓	✓	✓	✓	✓			✓
Lock electronics	✓	✓	✓	✓	✓	✓	✓	✓			✓
OBD-II	✓	✓	Freeze Frame	Scan Waveform	O2 Monitoring						✓
<b>Chassis system</b>											
ABS \ Brakes electronics	✓	✓	✓	✓	✓	✓	✓	✓			✓
Distance control	✓	✓	✓	✓	✓	✓	✓	✓			✓
Brake booster	✓	✓	✓	✓	✓	✓	✓	✓			✓
Brake booster assistance	✓	✓	✓	✓	✓	✓	✓	✓			✓
Parking brake	✓	✓	✓	✓	✓	✓	✓	✓			✓
Steering angle	✓	✓	✓	✓	✓	✓	✓	✓			✓
Electronic Suspension \ Wheel dampening electronics	✓	✓	✓	✓	✓	✓	✓	✓			✓

SYSTEMS	DATA STREAM	READ / CLEAR FAULT CODES	BASIC SETTING	ADAPTATION	ACTIVATION	VALUE BLOCK	LOGIN ECU	CODING ECU	READINESS	SERVICE RESET	ECU ID
Traction Control \ Anti Slip regulation	✓	✓	✓	✓	✓	✓	✓	✓			✓
Level control	✓	✓	✓	✓	✓	✓	✓	✓			✓
Steering assistance	✓	✓	✓	✓	✓	✓	✓	✓			✓
Rear spoiler	✓	✓	✓	✓	✓	✓	✓	✓			✓
Stabilizers	✓	✓	✓	✓	✓	✓	✓	✓			✓
Vehicle control system	✓	✓	✓	✓	✓	✓	✓	✓			✓
<b>BODY</b>											
SRS \ Airbags	✓	✓	✓	✓	✓	✓	✓	✓			✓
Vertical headlight aim control	✓	✓	✓	✓	✓	✓	✓	✓			✓
Tire Pressure monitoring	✓	✓	✓	✓	✓	✓	✓	✓			✓
Driver-side door	✓	✓	✓	✓	✓	✓	✓	✓			✓
Passenger-side door	✓	✓	✓	✓	✓	✓	✓	✓			✓
Left rear door	✓	✓	✓	✓	✓	✓	✓	✓			✓
Right rear door	✓	✓	✓	✓	✓	✓	✓	✓			✓
Auxiliary fuel tank	✓	✓	✓	✓	✓	✓	✓	✓			✓
Sliding door right	✓	✓	✓	✓	✓	✓	✓	✓			✓
Active Steering	✓	✓	✓	✓	✓	✓	✓	✓			✓
Sliding door left	✓	✓	✓	✓	✓	✓	✓	✓			✓
<b>Comfort and Convient system</b>											
Central locking	✓	✓	✓	✓	✓	✓	✓	✓			✓
Interior monitoring	✓	✓	✓	✓	✓	✓	✓	✓			✓
Drivers side boarding assistance I \ Driver's Entry Assistance	✓	✓	✓	✓	✓	✓	✓	✓			✓
Drivers side boarding assistance II \ Right Entry Assistance	✓	✓	✓	✓	✓	✓	✓	✓			✓
Auxiliary heater	✓	✓	✓	✓	✓	✓	✓	✓			✓
Passenger side seat adjustment	✓	✓	✓	✓	✓	✓	✓	✓			✓

SYSTEMS	DATA STREAM	READ / CLEAR FAULT CODES	BASIC SETTING	ADAPTATION	ACTIVATION	VALUE BLOCK	LOGIN ECU	CODING ECU	READINESS	SERVICE RESET	ECU ID
Steering wheel electronics	✓	✓	✓	✓	✓	✓	✓	✓			✓
Electronic roof controls	✓	✓	✓	✓	✓	✓	✓	✓			✓
Seat adjustment driver side	✓	✓	✓	✓	✓	✓	✓	✓			✓
Convenience Feature \ Central module comfort system	✓	✓	✓	✓	✓	✓	✓	✓			✓
Seat/mirror adjustment	✓	✓	✓	✓	✓	✓	✓	✓			✓
A/C heater electronics	✓	✓	✓	✓	✓	✓	✓	✓			✓
Auxiliary parking heater	✓	✓	✓	✓	✓	✓	✓	✓			✓
Climate control unit rear	✓	✓	✓	✓	✓	✓	✓	✓			✓
Roof electronics	✓	✓	✓	✓	✓	✓	✓	✓			✓
Drivers side seat adjustment, rear	✓	✓	✓	✓	✓	✓	✓	✓			✓
Wiper electronics	✓	✓	✓	✓	✓	✓	✓	✓			✓
Vehicle position detection	✓	✓	✓	✓	✓	✓	✓	✓			✓
Lane change assistant	✓	✓	✓	✓	✓	✓	✓	✓			✓
Tire pressure monitoring II	✓	✓	✓	✓	✓	✓	✓	✓			✓
Lane retention assistant	✓	✓	✓	✓	✓	✓	✓	✓			✓
Rear view camera system	✓	✓	✓	✓	✓	✓	✓	✓			✓
Parallel parking assistance	✓	✓	✓	✓	✓	✓	✓	✓			✓
<b>Electronic system 1</b>											
Access and start authorization	✓	✓	✓	✓	✓	✓	✓	✓			✓
Anti Theft \ Immobilizer	✓	✓	✓	✓	✓	✓	✓	✓			✓
Emergency Call \ Telematics	✓	✓	✓	✓	✓	✓	✓	✓			✓
Radio	✓	✓	✓	✓	✓	✓	✓	✓			✓
Parking aid	✓	✓	✓	✓	✓	✓	✓	✓			✓



SYSTEMS	DATA STREAM	READ / CLEAR FAULT CODES	BASIC SETTING	ADAPTATION	ACTIVATION	VALUE BLOCK	LOGIN ECU	CODING ECU	READINESS	SERVICE RESET	ECU ID
Display control unit	✓	✓	✓	✓	✓	✓	✓	✓			✓
Instrument Panel \Dash panel insert	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓
Display control unit, rear	✓	✓	✓	✓	✓	✓	✓	✓			✓
Navigation	✓	✓	✓	✓	✓	✓	✓	✓			✓
Sound System	✓	✓	✓	✓	✓	✓	✓	✓			✓
TV Tuner	✓	✓	✓	✓	✓	✓	✓	✓			✓
Voice control	✓	✓	✓	✓	✓	✓	✓	✓			✓
Telephone	✓	✓	✓	✓	✓	✓	✓	✓			✓
Electronic central electrics	✓	✓	✓	✓	✓	✓	✓	✓			✓
Data Bus On Board Diagnostic Interface	✓	✓	✓	✓	✓	✓	✓	✓			✓
Light control left	✓	✓	✓	✓	✓	✓	✓	✓			✓
Light control right	✓	✓	✓	✓	✓	✓	✓	✓			✓
Automatic light switch	✓	✓	✓	✓	✓	✓	✓	✓			✓
Towing protection	✓	✓	✓	✓	✓	✓	✓	✓			✓
Trailer function	✓	✓	✓	✓	✓	✓	✓	✓			✓
<b>Electronic system 2</b>											
Driver Identification	✓	✓	✓	✓	✓	✓	✓	✓			✓
Speech amplifier	✓	✓	✓	✓	✓	✓	✓	✓			✓
Special function	✓	✓	✓	✓	✓	✓	✓	✓			✓
Data Transfer	✓	✓	✓	✓	✓	✓	✓	✓			✓
Operations	✓	✓	✓	✓	✓	✓	✓	✓			✓
Rear lid electronics	✓	✓	✓	✓	✓	✓	✓	✓			✓
Media Player position 1	✓	✓	✓	✓	✓	✓	✓	✓			✓
Media Player position 2	✓	✓	✓	✓	✓	✓	✓	✓			✓
Media Player position 3	✓	✓	✓	✓	✓	✓	✓	✓			✓
Media Player position 4	✓	✓	✓	✓	✓	✓	✓	✓			✓
Control head RR	✓	✓	✓	✓	✓	✓	✓	✓			✓
Control head LR	✓	✓	✓	✓	✓	✓	✓	✓			✓

SYSTEMS	DATA STREAM	READ / CLEAR FAULT CODES	BASIC SETTING	ADAPTATION	ACTIVATION	VALUE BLOCK	LOGIN ECU	CODING ECU	READINESS	SERVICE RESET	ECU ID
Roof Display Control head	✓	✓	✓	✓	✓	✓	✓	✓			✓
Indicator unit in instrument panel insert	✓	✓	✓	✓	✓	✓	✓	✓			✓
Digital radio tuner	✓	✓	✓	✓	✓	✓	✓	✓			✓
Satellite radio tuner	✓	✓	✓	✓	✓	✓	✓	✓			✓
TV tuner digital	✓	✓	✓	✓	✓	✓	✓	✓			✓
Electronic central electrics II	✓	✓	✓	✓	✓	✓	✓	✓			✓
Information electrics	✓	✓	✓	✓	✓	✓	✓	✓			✓
Comfort System Central Control Module II	✓	✓	✓	✓	✓	✓	✓	✓			✓
Information electronics II	✓	✓	✓	✓	✓	✓	✓	✓			✓

## MODELS BETWEEN 2004 - 2008 (CAN SYSTEMS)

SYSTEMS	DATA STREAM	READ / CLEAR FAULT CODES	BASIC SETTING	ADAPTATION	ACTIVATION	VALUE BLOCK	LOGIN ECU	CODING ECU	READINESS	SERVICE RESET	ECU ID
<b>ENGINE/Power transmission system</b>											
Engine	✓	✓	✓	✓	✓	✓	✓	✓			✓
Engine II	✓	✓	✓	✓	✓	✓	✓	✓			✓
Engine electronics III	✓	✓	✓	✓	✓	✓	✓	✓			✓
Engine electronics Others	✓	✓	✓	✓	✓	✓	✓	✓			✓
Diesel Engine	✓	✓	✓	✓	✓	✓	✓	✓			✓
Electro drive	✓	✓	✓	✓	✓	✓	✓	✓			✓
Battery Regulation	✓	✓	✓	✓	✓	✓	✓	✓			✓
Battery Charger	✓	✓	✓	✓	✓	✓	✓	✓			✓
Auto. Transmission	✓	✓	✓	✓	✓	✓	✓	✓			✓
Electronic Clutch	✓	✓	✓	✓	✓	✓	✓	✓			✓
4 Wheel Drive	✓	✓	✓	✓	✓	✓	✓	✓			✓
Lock electronics	✓	✓	✓	✓	✓	✓	✓	✓			✓
OBD-II	✓	✓	Freeze Frame	Scan Waveform	O2 Monitoring						✓
<b>Chassis system</b>											
ABS \ Brakes electronics	✓	✓	✓	✓	✓	✓	✓	✓			✓
Distance control	✓	✓	✓	✓	✓	✓	✓	✓			✓
Brake booster	✓	✓	✓	✓	✓	✓	✓	✓			✓
Brake booster assistance	✓	✓	✓	✓	✓	✓	✓	✓			✓
Parking brake	✓	✓	✓	✓	✓	✓	✓	✓			✓
Steering angle	✓	✓	✓	✓	✓	✓	✓	✓			✓
Electronic Suspension \ Wheel dampening electronics	✓	✓	✓	✓	✓	✓	✓	✓			✓

SYSTEMS	DATA STREAM	READ / CLEAR FAULT CODES	BASIC SETTING	ADAPTATION	ACTIVATION	VALUE BLOCK	LOGIN ECU	CODING ECU	READINESS	SERVICE RESET	ECU ID
Traction Control \ Anti Slip regulation	✓	✓	✓	✓	✓	✓	✓	✓			✓
Level control	✓	✓	✓	✓	✓	✓	✓	✓			✓
Steering assistance	✓	✓	✓	✓	✓	✓	✓	✓			✓
Rear spoiler	✓	✓	✓	✓	✓	✓	✓	✓			✓
Stabilizers	✓	✓	✓	✓	✓	✓	✓	✓			✓
Vehicle control system	✓	✓	✓	✓	✓	✓	✓	✓			✓
<b>BODY</b>											
SRS \ Airbags	✓	✓	✓	✓	✓	✓	✓	✓			✓
Vertical headlight aim control	✓	✓	✓	✓	✓	✓	✓	✓			✓
Tire Pressure monitoring	✓	✓	✓	✓	✓	✓	✓	✓			✓
Driver-side door	✓	✓	✓	✓	✓	✓	✓	✓			✓
Passenger-side door	✓	✓	✓	✓	✓	✓	✓	✓			✓
Left rear door	✓	✓	✓	✓	✓	✓	✓	✓			✓
Right rear door	✓	✓	✓	✓	✓	✓	✓	✓			✓
Auxiliary fuel tank	✓	✓	✓	✓	✓	✓	✓	✓			✓
Sliding door right	✓	✓	✓	✓	✓	✓	✓	✓			✓
Active Steering	✓	✓	✓	✓	✓	✓	✓	✓			✓
Sliding door left	✓	✓	✓	✓	✓	✓	✓	✓			✓
<b>Comfort and Convient system</b>											
Central locking	✓	✓	✓	✓	✓	✓	✓	✓			✓
Interior monitoring	✓	✓	✓	✓	✓	✓	✓	✓			✓
Drivers side boarding assistance I \ Driver's Entry Assistance	✓	✓	✓	✓	✓	✓	✓	✓			✓
Drivers side boarding assistance II \ Right Entry Assistance	✓	✓	✓	✓	✓	✓	✓	✓			✓
Auxiliary heater	✓	✓	✓	✓	✓	✓	✓	✓			✓
Passenger side seat	✓	✓	✓	✓	✓	✓	✓	✓			✓

SYSTEMS	DATA STREAM	READ / CLEAR FAULT CODES	BASIC SETTING	ADAPTATION	ACTIVATION	VALUE BLOCK	LOGIN ECU	CODING ECU	READINESS	SERVICE RESET	ECU ID
adjustment											
Steering wheel electronics	✓	✓	✓	✓	✓	✓	✓	✓			✓
Electronic roof controls	✓	✓	✓	✓	✓	✓	✓	✓			✓
Seat adjustment driver side	✓	✓	✓	✓	✓	✓	✓	✓			✓
Convenience Feature \ Central module comfort system	✓	✓	✓	✓	✓	✓	✓	✓			✓
Seat/mirror adjustment	✓	✓	✓	✓	✓	✓	✓	✓			✓
A/C heater electronics	✓	✓	✓	✓	✓	✓	✓	✓			✓
Auxiliary parking heater	✓	✓	✓	✓	✓	✓	✓	✓			✓
Climate control unit rear	✓	✓	✓	✓	✓	✓	✓	✓			✓
Roof electronics	✓	✓	✓	✓	✓	✓	✓	✓			✓
Drivers side seat adjustment, rear	✓	✓	✓	✓	✓	✓	✓	✓			✓
Wiper electronics	✓	✓	✓	✓	✓	✓	✓	✓			✓
Vehicle position detection	✓	✓	✓	✓	✓	✓	✓	✓			✓
Lane change assistant	✓	✓	✓	✓	✓	✓	✓	✓			✓
Tire pressure monitoring II	✓	✓	✓	✓	✓	✓	✓	✓			✓
Lane retention assistant	✓	✓	✓	✓	✓	✓	✓	✓			✓
Rear view camera system	✓	✓	✓	✓	✓	✓	✓	✓			✓
Parallel parking assistance	✓	✓	✓	✓	✓	✓	✓	✓			✓
<b>Electronic system 1</b>											
Access and start authorization	✓	✓	✓	✓	✓	✓	✓	✓			✓
Anti Theft \ Immobilizer	✓	✓	✓	✓	✓	✓	✓	✓			✓
Emergency Call \ Telematics	✓	✓	✓	✓	✓	✓	✓	✓			✓
Radio	✓	✓	✓	✓	✓	✓	✓	✓			✓

SYSTEMS	DATA STREAM	READ / CLEAR FAULT CODES	BASIC SETTING	ADAPTATION	ACTIVATION	VALUE BLOCK	LOGIN ECU	CODING ECU	READINESS	SERVICE RESET	ECU ID
Parking aid	✓	✓	✓	✓	✓	✓	✓	✓			✓
Display control unit	✓	✓	✓	✓	✓	✓	✓	✓			✓
Instrument Panel \Dash panel insert	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓
Display control unit, rear	✓	✓	✓	✓	✓	✓	✓	✓			✓
Navigation	✓	✓	✓	✓	✓	✓	✓	✓			✓
Sound System	✓	✓	✓	✓	✓	✓	✓	✓			✓
TV Tuner	✓	✓	✓	✓	✓	✓	✓	✓			✓
Voice control	✓	✓	✓	✓	✓	✓	✓	✓			✓
Telephone	✓	✓	✓	✓	✓	✓	✓	✓			✓
Electronic central electrics	✓	✓	✓	✓	✓	✓	✓	✓			✓
Data Bus On Board Diagnostic Interface	✓	✓	✓	✓	✓	✓	✓	✓			✓
Light control left	✓	✓	✓	✓	✓	✓	✓	✓			✓
Light control right	✓	✓	✓	✓	✓	✓	✓	✓			✓
Automatic light switch	✓	✓	✓	✓	✓	✓	✓	✓			✓
Towing protection	✓	✓	✓	✓	✓	✓	✓	✓			✓
Trailer function	✓	✓	✓	✓	✓	✓	✓	✓			✓
<b>Electronic system 2</b>											
Driver Identification	✓	✓	✓	✓	✓	✓	✓	✓			✓
Speech amplifier	✓	✓	✓	✓	✓	✓	✓	✓			✓
Special function	✓	✓	✓	✓	✓	✓	✓	✓			✓
Data Transfer	✓	✓	✓	✓	✓	✓	✓	✓			✓
Operations	✓	✓	✓	✓	✓	✓	✓	✓			✓
Rear lid electronics	✓	✓	✓	✓	✓	✓	✓	✓			✓
Media Player position 1	✓	✓	✓	✓	✓	✓	✓	✓			✓
Media Player position 2	✓	✓	✓	✓	✓	✓	✓	✓			✓
Media Player position 3	✓	✓	✓	✓	✓	✓	✓	✓			✓
Media Player position 4	✓	✓	✓	✓	✓	✓	✓	✓			✓
Control head RR	✓	✓	✓	✓	✓	✓	✓	✓			✓

SYSTEMS	DATA STREAM	READ / CLEAR FAULT CODES	BASIC SETTING	ADAPTATION	ACTIVATION	VALUE BLOCK	LOGIN ECU	CODING ECU	READINESS	SERVICE RESET	ECU ID
Control head LR	✓	✓	✓	✓	✓	✓	✓	✓			✓
Roof Display Control head	✓	✓	✓	✓	✓	✓	✓	✓			✓
Indicator unit in instrument panel insert	✓	✓	✓	✓	✓	✓	✓	✓			✓
Digital radio tuner	✓	✓	✓	✓	✓	✓	✓	✓			✓
Satellite radio tuner	✓	✓	✓	✓	✓	✓	✓	✓			✓
TV tuner digital	✓	✓	✓	✓	✓	✓	✓	✓			✓
Electronic central electrics II	✓	✓	✓	✓	✓	✓	✓	✓			✓
Information electrics	✓	✓	✓	✓	✓	✓	✓	✓			✓
Comfort System Central Control Module II	✓	✓	✓	✓	✓	✓	✓	✓			✓
Information electronics II	✓	✓	✓	✓	✓	✓	✓	✓			✓

## MODELS AFTER 2008 (CAN SYSTEMS)

SYSTEMS	DATA STREAM	READ / CLEAR FAULT CODES	BASIC SETTING	ADAPTATION	ACTIVATION	VALUE BLOCK	LOGIN ECU	CODING ECU	READINESS	SERVICE RESET	ECU ID
<b>ENGINE/Power transmission system</b>											
Engine	✓	✓	✓	✓	✓	✓	✓	✓			✓
Engine UDS	✓	✓	✓	✓	✓		✓	✓			✓
Engine II UDS	✓	✓	✓	✓	✓		✓	✓			✓
Diesel Engine	✓	✓	✓	✓	✓	✓	✓	✓			✓
Electro drive	✓	✓	✓	✓	✓	✓	✓	✓			✓
Electro drive UDS	✓	✓	✓	✓	✓		✓	✓			✓
Battery Regulation	✓	✓	✓	✓	✓	✓	✓	✓			✓
Battery Regulation UDS		✓	✓	✓	✓		✓	✓			✓
Battery Charger	✓	✓	✓	✓	✓	✓	✓	✓			✓
Gear Shift Control Module UDS	✓	✓	✓	✓	✓		✓	✓			✓
A/T	✓	✓	✓	✓	✓	✓	✓	✓			✓
A/T UDS	✓	✓					✓	✓			✓
Electronic Clutch	✓	✓	✓	✓	✓	✓	✓	✓			✓
4 Wheel Drive	✓	✓	✓	✓	✓	✓	✓	✓			✓
4 Wheel Drive UDS	✓	✓	✓	✓	✓		✓	✓			✓
Lock electronics	✓	✓	✓	✓	✓	✓	✓	✓			✓
OBD-II	✓	✓	Freeze Frame	Scan Waveform	O2 Monitoring						✓
<b>Chassis system</b>											
ABS / Brakes electronics	✓	✓	✓	✓	✓	✓	✓	✓			✓
ABS / Brakes electronics UDS	✓	✓	✓	✓	✓		✓	✓			✓
Distance control	✓	✓	✓	✓	✓	✓	✓	✓			✓
Distance control UDS	✓	✓	✓	✓	✓		✓	✓			✓
Brake booster	✓	✓	✓	✓	✓	✓	✓	✓			✓
Brake booster assistance	✓	✓	✓	✓	✓	✓	✓	✓			✓



# Specification

Parking brake	✓	✓	✓	✓	✓	✓	✓	✓			✓
Parking brake UDS	✓	✓	✓	✓	✓		✓	✓			✓
Steering angle	✓	✓	✓	✓	✓	✓	✓	✓			✓
Steering angle UDS	✓	✓	✓	✓	✓		✓	✓			✓
Electronic Suspension / Wheel dampening electronics	✓	✓	✓	✓	✓	✓	✓	✓			✓
Traction Control / Anti Slip regulation	✓	✓	✓	✓	✓	✓	✓	✓			✓
Level control	✓	✓	✓	✓	✓	✓	✓	✓			✓
Level control UDS		✓					✓	✓			✓
Steering assistance	✓	✓	✓	✓	✓	✓	✓	✓			✓
Steering assistance UDS	✓	✓	✓	✓	✓		✓	✓			✓
Rear spoiler	✓	✓	✓	✓	✓	✓	✓	✓			✓
Stabilizers	✓	✓	✓	✓	✓	✓	✓	✓			✓
Vehicle control system	✓	✓	✓	✓	✓	✓	✓	✓			✓

SYSTEMS	DATA STREAM	READ / CLEAR FAULT CODES	BASIC SETTING	ADAPTATION	ACTIVATION	VALUE BLOCK	LOGIN ECU	CODING ECU	READINESS	SERVICE RESET	ECU ID
<b>BODY</b>											
SRS / Airbags	✓	✓	✓	✓	✓	✓	✓	✓			✓
SRS / Airbags UDS	✓	✓	✓	✓	✓		✓	✓			✓
Vertical headlight aim control	✓	✓	✓	✓	✓	✓	✓	✓			✓
Vertical headlight aim control UDS	✓	✓	✓	✓	✓		✓	✓			✓
Tire Pressure monitoring	✓	✓	✓	✓	✓	✓	✓	✓			✓
Tire Pressure monitoring UDS	✓	✓	✓	✓	✓		✓	✓			✓
Driver-side door	✓	✓	✓	✓	✓	✓	✓	✓			✓
Driver-side door UDS		✓					✓	✓			✓
Passenger-side door	✓	✓	✓	✓	✓	✓	✓	✓			✓
Passenger-side door UDS	✓	✓	✓	✓	✓		✓	✓			✓
Left rear door	✓	✓	✓	✓	✓	✓	✓	✓			✓
Right rear door	✓	✓	✓	✓	✓	✓	✓	✓			✓
Auxiliary fuel tank	✓	✓	✓	✓	✓	✓	✓	✓			✓
Sliding door right	✓	✓	✓	✓	✓	✓	✓	✓			✓
Sliding door right UDS	✓	✓	✓	✓	✓		✓	✓			✓
Active Steering	✓	✓	✓	✓	✓	✓	✓	✓			✓
Sliding door left	✓	✓	✓	✓	✓	✓	✓	✓			✓
Sliding door left UDS	✓	✓	✓	✓	✓		✓	✓			✓
Actuator For Structure-Borne Sound UDS	✓	✓	✓	✓	✓		✓	✓			✓
Adaptive Cruise Control 2 UDS	✓	✓	✓	✓	✓		✓	✓			✓
Pretensioner Front Left UDS	✓	✓	✓	✓	✓		✓	✓			✓
Pretensioner Front Right UDS	✓	✓	✓	✓	✓		✓	✓			✓
High Beam Assistance UDS	✓	✓	✓	✓	✓		✓	✓			✓

SYSTEMS	DATA STREAM	READ / CLEAR FAULT CODES	BASIC SETTING	ADAPTATION	ACTIVATION	VALUE BLOCK	LOGIN ECU	CODING ECU	READINESS	SERVICE RESET	ECU ID
Air Conditioning Compressor UDS	✓	✓	✓	✓	✓		✓	✓			✓
<b>Comfort and Convient system</b>											
Central locking	✓	✓	✓	✓	✓	✓	✓	✓			✓
Interior monitoring	✓	✓	✓	✓	✓	✓	✓	✓			✓
Drivers side boarding assistance I / Driver's Entry Assistance	✓	✓	✓	✓	✓	✓	✓	✓			✓
Drivers side boarding assistance II / Right Entry Assistance	✓	✓	✓	✓	✓	✓	✓	✓			✓
Auxiliary heater	✓	✓	✓	✓	✓	✓	✓	✓			✓
Passenger side seat adjustment	✓	✓	✓	✓	✓	✓	✓	✓			✓
Steering wheel electronics	✓	✓	✓	✓	✓	✓	✓	✓			✓
Steering wheel electronics UDS	✓	✓	✓	✓	✓		✓	✓			✓
Electronic roof controls	✓	✓	✓	✓	✓	✓	✓	✓			✓
Seat adjustment driver side	✓	✓	✓	✓	✓	✓	✓	✓			✓
Convenience Feature \ Central module comfort system	✓	✓	✓	✓	✓	✓	✓	✓			✓
Seat/mirror adjustment	✓	✓	✓	✓	✓	✓	✓	✓			✓
A/C heater electronics	✓	✓	✓	✓	✓	✓	✓	✓			✓
A/C heater electronics UDS	✓	✓	✓	✓	✓		✓	✓			✓
Auxiliary parking heater	✓	✓	✓	✓	✓	✓	✓	✓			✓
Climate control unit rear	✓	✓	✓	✓	✓	✓	✓	✓			✓
Climate control unit rear UDS	✓	✓	✓	✓	✓		✓	✓			✓
Roof electronics	✓	✓	✓	✓	✓	✓	✓	✓			✓

SYSTEMS	DATA STREAM	READ / CLEAR FAULT CODES	BASIC SETTING	ADAPTATION	ACTIVATION	VALUE BLOCK	LOGIN ECU	CODING ECU	READINESS	SERVICE RESET	ECU ID
Drivers side seat adjustment, rear	✓	✓	✓	✓	✓	✓	✓	✓			✓
Wiper electronics	✓	✓	✓	✓	✓	✓	✓	✓			✓
Vehicle position detection	✓	✓	✓	✓	✓	✓	✓	✓			✓
Lane change assistant	✓	✓	✓	✓	✓	✓	✓	✓			✓
Tire pressure monitoring II	✓	✓	✓	✓	✓	✓	✓	✓			✓
Lane retention assistant	✓	✓	✓	✓	✓	✓	✓	✓			✓
Rear view camera system	✓	✓	✓	✓	✓	✓	✓	✓			✓
Parallel parking assistance	✓	✓	✓	✓	✓	✓	✓	✓			✓
Parallel parking assistance UDS	✓	✓	✓	✓	✓		✓	✓			✓
Night Vision UDS	✓	✓	✓	✓	✓		✓	✓			✓
On-Board Camera UDS	✓	✓	✓	✓	✓		✓	✓			✓
Multi Contour Seat Driver Side UDS	✓	✓	✓	✓	✓		✓	✓			✓
Multi Contour Seat Passenger Side UDS	✓	✓	✓	✓	✓		✓	✓			✓
Multi Contour Seat Rear Driver Side UDS	✓	✓	✓	✓	✓		✓	✓			✓
Multi Contour Seat Rear Passenger Side UDS	✓	✓	✓	✓	✓		✓	✓			✓
Steering Column Locking UDS	✓	✓	✓	✓	✓		✓	✓			✓
Rear view camera system UDS	✓	✓	✓	✓	✓		✓	✓			✓
<b>Electronic system 1</b>											
Access and start authorization	✓	✓	✓	✓	✓	✓	✓	✓			✓
Access and start authorization UDS	✓	✓	✓	✓	✓		✓	✓			✓

SYSTEMS	DATA STREAM	READ / CLEAR FAULT CODES	BASIC SETTING	ADAPTATION	ACTIVATION	VALUE BLOCK	LOGIN ECU	CODING ECU	READINESS	SERVICE RESET	ECU ID
Anti Theft / Immobilizer	✓	✓	✓	✓	✓	✓	✓	✓			✓
Anti Theft / Immobilizer UDS	✓	✓	✓	✓	✓		✓	✓			✓
Emergency Call / Telematics	✓	✓	✓	✓	✓	✓	✓	✓			✓
Radio	✓	✓	✓	✓	✓	✓	✓	✓			✓
Parking aid	✓	✓	✓	✓	✓	✓	✓	✓			✓
Display control unit	✓	✓	✓	✓	✓	✓	✓	✓			✓
Display control unit UDS	✓	✓	✓	✓	✓		✓	✓			✓
Instrument Panel / Dash panel insert	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓
Instrument Panel / Dash panel insert UDS	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓
Display control unit, rear	✓	✓	✓	✓	✓	✓	✓	✓			✓
Navigation	✓	✓	✓	✓	✓	✓	✓	✓			✓
Navigation UDS		✓					✓	✓			✓
Sound System	✓	✓	✓	✓	✓	✓	✓	✓			✓
Sound System UDS		✓					✓	✓			✓
TV Tuner	✓	✓	✓	✓	✓	✓	✓	✓			✓
Voice control	✓	✓	✓	✓	✓	✓	✓	✓			✓
Telephone	✓	✓	✓	✓	✓	✓	✓	✓			✓
Telephone UDS	✓	✓	✓	✓	✓		✓	✓			✓
Electronic central electrics	✓	✓	✓	✓	✓	✓	✓	✓			✓
Data Bus On Board Diagnostic Interface	✓	✓	✓	✓	✓	✓	✓	✓			✓
Data Bus On Board Diagnostic Interface UDS	✓	✓	✓	✓	✓		✓	✓			✓
Light control left	✓	✓	✓	✓	✓	✓	✓	✓			✓
Light control right	✓	✓	✓	✓	✓	✓	✓	✓			✓
Automatic light switch	✓	✓	✓	✓	✓	✓	✓	✓			✓

SYSTEMS	DATA STREAM	READ / CLEAR FAULT CODES	BASIC SETTING	ADAPTATION	ACTIVATION	VALUE BLOCK	LOGIN ECU	CODING ECU	READINESS	SERVICE RESET	ECU ID
Towing protection	✓	✓	✓	✓	✓	✓	✓	✓			✓
Trailer function	✓	✓	✓	✓	✓	✓	✓	✓			✓
<b>Electronic system 2</b>											
Driver Identification	✓	✓	✓	✓	✓	✓	✓	✓			✓
Speech amplifier	✓	✓	✓	✓	✓	✓	✓	✓			✓
Special function	✓	✓	✓	✓	✓	✓	✓	✓			✓
Data Transfer	✓	✓	✓	✓	✓	✓	✓	✓			✓
Operations	✓	✓	✓	✓	✓	✓	✓	✓			✓
Rear lid electronics	✓	✓	✓	✓	✓	✓	✓	✓			✓
Rear lid electronics UDS	✓	✓	✓	✓	✓		✓	✓			✓
Media Player position 1	✓	✓	✓	✓	✓	✓	✓	✓			✓
Media Player position 2	✓	✓	✓	✓	✓	✓	✓	✓			✓
Media Player position 3	✓	✓	✓	✓	✓	✓	✓	✓			✓
Media Player position 4	✓	✓	✓	✓	✓	✓	✓	✓			✓
Control head RR	✓	✓	✓	✓	✓	✓	✓	✓			✓
Control head LR	✓	✓	✓	✓	✓	✓	✓	✓			✓
Roof Display Control head	✓	✓	✓	✓	✓	✓	✓	✓			✓
Indicator unit in instrument panel insert	✓	✓	✓	✓	✓	✓	✓	✓			✓
Digital radio tuner	✓	✓	✓	✓	✓	✓	✓	✓			✓
Satellite radio tuner	✓	✓	✓	✓	✓	✓	✓	✓			✓
TV tuner digital	✓	✓	✓	✓	✓	✓	✓	✓			✓
Electronic central electrics II	✓	✓	✓	✓	✓	✓	✓	✓			✓
Information electrics	✓	✓	✓	✓	✓	✓	✓	✓			✓
Comfort System Central Control Module II	✓	✓	✓	✓	✓	✓	✓	✓			✓
Comfort System Central Control Module II UDS	✓	✓	✓	✓	✓		✓	✓			✓

SYSTEMS	DATA STREAM	READ / CLEAR FAULT CODES	BASIC SETTING	ADAPTATION	ACTIVATION	VALUE BLOCK	LOGIN ECU	CODING ECU	READINESS	SERVICE RESET	ECU ID
Information electronics II	✓	✓	✓	✓	✓	✓	✓	✓			✓
Front Sensors Driver Assistance System UDS	✓	✓	✓	✓	✓		✓	✓			✓
Microphone UDS	✓	✓	✓	✓	✓		✓	✓			✓
Infotainment Interface UDS	✓	✓	✓	✓	✓		✓	✓			✓
Sensor Electronics UDS	✓	✓	✓	✓	✓		✓	✓			✓
Image Processing UDS Electronics	✓	✓	✓	✓	✓		✓	✓			✓

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