VW, AUDI, SEAT, SKODA (VAG Groups) 1990 – 2009

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

Version: V2011.02 Date: APRIL, 2011

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
ENGINE\Power transmission system											
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						✓
Chassis system											
ABS \ Brakes electronics	✓	✓	✓	✓	✓	✓	✓	✓			✓
Distance control	✓	✓	✓	✓	✓	✓	✓	✓			✓
Brake booster	✓	✓	✓	✓	✓	✓	✓	✓			✓
Brake booster assistance	✓	✓	✓	✓	✓	✓	✓	✓			✓

VeDiS-II Specification

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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 requlation	✓	✓	✓	✓	✓	✓	✓	✓			✓
Level control	✓	✓	✓	✓	✓	✓	✓	✓			✓
Steering assistance	✓	✓	✓	✓	✓	✓	✓	✓			✓
Rear spoiler	✓	✓	✓	✓	✓	✓	✓	✓			✓
Stabilizers	✓	✓	✓	✓	✓	✓	✓	✓			✓
Vehicle control system	✓	✓	✓	✓	✓	✓	✓	✓			✓
BODY											
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	✓	✓	✓	✓	✓	✓	✓	✓			✓
Comfort and Convient system											
Central locking	✓	✓	✓	✓	✓	✓	✓	✓			✓
Interior monitoring	✓	✓	✓	✓	✓	✓	✓	✓			✓
Drivers side boarding assistance I \ Driver's Entry Assistance	✓	✓	✓	✓	✓	✓	✓	✓			✓

VeDiS-**II** Specification

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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	✓	✓	✓	✓	✓	✓	✓	✓			✓
Electronic system 1											
Access and start authorization	✓	✓	✓	✓	✓	✓	✓	✓			✓
Anti Theft \ Immobilizer	✓	✓	✓	✓	✓	✓	✓	✓			✓
Emergency Call \ Telematics	✓	✓	✓	✓	✓	✓	✓	✓			✓
Radio	✓	✓	✓	✓	✓	✓	✓	✓			✓
Parking aid	✓	✓	✓	✓	✓	✓	✓	✓			✓
Display control unit	✓	✓	✓	✓	✓	✓	✓	✓			✓
Instrument Panel \Dash panel insert	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓

VeDiS-II Specification

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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	✓	✓	✓	✓	✓	✓	✓	✓			✓
Electronic system 2											
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	✓	✓	✓	✓	✓	✓	✓	✓			✓

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SYSTEMS	DATA STREAM	READ / CLEAR FAULT CODES	BASIC SETTING	ADAPTATION	ACTIVATION	SIGNAL DATA READ	LOGIN ECU	CODING ECU	READINESS	SERVICE 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
ENGINE\Power transmission system											
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						OBD-II
Chassis system											
ABS \ Brakes electronics	✓	✓	✓	✓	✓	✓	✓	✓			✓
Distance control	✓	✓	✓	✓	✓	✓	✓	✓			✓
Brake booster	✓	✓	✓	✓	✓	✓	✓	✓			✓
Brake booster assistance	✓	✓	✓	✓	✓	✓	✓	✓			✓
Parking brake	✓	✓	✓	✓	✓	✓	✓	✓			✓
Steering angle	✓	✓	✓	✓	✓	✓	✓	✓			✓
Electronic Suspension \ Wheel dampening electronics	✓	✓	✓	✓	✓	✓	✓	✓			✓

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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	✓	✓	✓	✓	✓	✓	✓	✓			✓
BODY											
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	✓	✓	✓	✓	✓	✓	✓	✓			✓
Comfort and Convient system											
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	✓	✓	✓	✓	✓	✓	✓	✓			✓
Electronic system 1											
Access and start authorization	✓	✓	✓	✓	✓	✓	✓	✓			✓
Anti Theft \ Immobilizer	✓	✓	✓	✓	✓	✓	✓	✓			✓
Emergency Call \ Telematics	✓	✓	✓	✓	✓	✓	✓	✓			✓
Radio	✓	✓	✓	✓	✓	✓	✓	✓			✓
Parking aid	✓	✓	✓	✓	✓	✓	✓	✓			✓

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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	✓	✓	✓	✓	✓	✓	✓	✓			✓
Electronic system 2											
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	✓	✓	✓	✓	✓	✓	✓	✓			✓

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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	✓	✓	✓	✓	✓	✓	✓	✓			✓

VeDiS-**II** Specification

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S C I E N T E C H

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
ENGINE\Power transmission system											
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						✓
Chassis system											
ABS \ Brakes electronics	✓	✓	✓	✓	✓	✓	✓	✓			✓
Distance control	✓	✓	✓	✓	✓	✓	✓	✓			✓
Brake booster	✓	✓	✓	✓	✓	✓	✓	✓			✓
Brake booster assistance	✓	✓	✓	✓	✓	✓	✓	✓			✓
Parking brake	✓	✓	✓	✓	✓	✓	✓	✓			✓
Steering angle	✓	✓	✓	✓	✓	✓	✓	✓			✓
Electronic Suspension \ Wheel dampening electronics	✓	✓	✓	✓	✓	✓	✓	✓			✓

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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	✓	✓	✓	✓	✓	✓	✓	✓			✓
BODY											
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	✓	✓	✓	✓	✓	✓	✓	✓			✓
Comfort and Convient system											
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	✓	✓	✓	✓	✓	✓	✓	✓			✓
Electronic system 1											
Access and start authorization	✓	✓	✓	✓	✓	✓	✓	✓			✓
Anti Theft \ Immobilizer	✓	✓	✓	✓	✓	✓	✓	✓			✓
Emergency Call \ Telematics	✓	✓	✓	✓	✓	✓	✓	✓			✓
Radio	✓	✓	✓	✓	✓	✓	✓	✓			✓

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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	✓	✓	✓	✓	✓	✓	✓	✓			✓
Electronic system 2											
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	✓	✓	✓	✓	✓	✓	✓	✓			✓

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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	✓	✓	✓	✓	✓	✓	✓	✓			✓

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MODELS AFTER 2008 (CAN SYSTEMS) (note)

SYSTEMS	DATA STREAM	READ / CLEAR FAULT CODES	BASIC SETTING	ADAPTATION	ACTIVATION	VALUE BLOCK	LOGIN ECU	CODING ECU	READINESS	SERVICE RESET	ECU ID
ENGINE\Power transmission system											
Engine	✓	✓									✓
Auto Transmission	✓	✓									✓
BODY											
SRS / Airbags	✓	✓									✓
Comfort and Convient system											
Steering wheel electronics		✓									✓
A/C heater electronics		✓									✓
Electronic system 1											
Anti Theft / Immobilizer		✓									✓
Instrument Panel / Dash panel insert		✓									✓

Note: The systems of the models after 2008 have new communication protocols as shown above. The other systems of the models after 2008 have the same communication protocols as the system of the models before 2008. The software covers ALL the protocols after 2008 and communicate to the ECU with the proper protocols automatically.