

BMW® E SERIES DIAGNOSIS 1987–2014

VERSION: 2015.07 DATE: AUG., 2015

AVAILABLE MODELS LIST

MODELS	CHASSIS TYPE
1-series	E87/E88/E81/E82
3-series	E30, E36, E46, Z3, E90/E91(Touring)/E92(Coupé)/E93(Convertible)
5-series	E28, E34, E39, E60/E61(Touring)
6-series	E63(Coupé)/E64(Convertible)
7-series	E32, E38, E65/E66/E67/E68
8-series	E31
X-series	E84 (X1), E83 (X3), E53(X5), E70(X5), E71/E72(X6)
Z-series	E85/E86 (Z4), E52(Z8), E89 (Z4)

* If the models are not listed here, users could select the related models.

* Coding funtions are available in iSCAN-II BMW® CODING and iSCAN-II BMW® SSS cartridge.

* Programming / Retrofit of the ECUs are available in iSCAN-II BMW® PROGRAMMING, only for iSCAN-II wt.

* Chassis type E-Series, please select BMW E-Series software. F-Series, please select BMW F-Series software.

7-SERIES, E65 / E66 (Long Wheel Base) / E67 (Protection) / E68 (Hydrogen 7) 2002 – 2008

DRIVE SYSTEMS

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
DME N52 / N62 / N73 / M54 Petrol Engine	✓	✓	✓	✓	✓	
DDE M57 / M67 Diesel Engine	✓	✓	✓	✓	✓	
EGS Auto Transmission	✓	✓	✓	✓	✓	
VTC1 Valvetronics	✓					
VTC2 Valvetronics	✓					
DWA Anti-Theft Alarm	✓	✓	✓			
CAS Car Access	✓	✓	✓		✓ (DME/DDE Sync)	

DME adaptation, functions list: (Some functions are optional because of the default factory setting)

1. Idle speed control
2. Learning Valvetronic limit positions
3. CO Adjustment
4. Consumption Indicator
5. Minimum Stroke Adjustment
6. Remove Valvetronic servomotor

DDE adaptation, functions list: (Some functions are optional because of the default factory setting)

1. Idle speed control
2. Injector rate adjustment
3. Particulate filter
4. Adaptations
5. Balance test
6. Exhaust-gas recirculation

EGS adaptation, functions list: (Some functions are optional because of the default factory setting)

1. Reset learning functions

CHASSIS

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
DSC Dynamic Stability Control	✓	✓	✓			
EHC Electronic Ride-Height Control	✓	✓	✓			
CIM Chassis Integration Module	✓	✓	✓			
EMF Parking Brake	✓	✓	✓			
ARS Active Roll Stabilization	✓	✓	✓			

BODY

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
SASL SRS / Airbag, A-Pillar Left	✓	✓				
SASR SRS / Airbag, A-Pillar Right	✓	✓				
SBSL SRS / Airbag, B-Pillar Left	✓	✓				
SBSR SRS / Airbag, B-Pillar Right	✓	✓				
SSFA SRS / Airbag, Driver Seat	✓	✓				
SSBF SRS / Airbag, Passenger Seat	✓	✓				
SSH SRS / Airbag, Rear Seat	✓	✓				
SFZ SRS / Airbag, Vehicle Center	✓	✓				
STVL SRS / Airbag, Front Left Door	✓	✓				
STVR SRS / Airbag, Front Right Door	✓	✓				
KOMBI	✓	✓	✓			

Instrument cluster						
PDC Park Distance Control	✓	✓	✓			
LM Light Module	✓	✓	✓			
BZM Control Centre	✓	✓	✓			
TMFAT Driver Door	✓	✓	✓			
TMBFT Passenger Door	✓	✓	✓			
FBZM Rear Control	✓	✓	✓			
TMFAH Driver Rear Door	✓	✓				
TMBFH Passenger Rear Door	✓	✓				
SZL Switch Center	✓	✓	✓		Initialization	
RLS Rain Sensor	✓	✓				
HKL Rear-lid Lift	✓	✓	✓			
WIM Wiper Module	✓	✓	✓			

INFORMATION AND COMMUNICATION

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
SIM Safety & Information	✓	✓	✓			
ASK Audio System	✓	✓	✓			
CD Control Display	✓	✓	✓			
CDGW Control Display Gateway	✓	✓	✓			
CDC	✓		✓			

Specification

CD Changer						
DVDC DVD Changer	✓		✓			
PM Power Module	✓	✓	✓			
CON Controller	✓	✓	✓			
ANT Antenna	✓	✓	✓			
SGM / ZGM Safety and Gateway Module	✓	✓	✓			
TCU / ULF Telephone Control Unit / Universal Bluetooth Hands-Free System	✓	✓	✓			
VM Video Module	✓	✓	✓			
M-ASK-NAV / JNAV Navigation System	✓	✓	✓			
SVS Language Processing System	✓		✓			

AIR CONDITIONING

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
IHKA / IHKR Regulated Heating and A/C	✓	✓	✓			
FKA / REAR AC Rear heater/air conditioning	✓	✓	✓			

EQUIPMENT FUNCTION SETUP

FUNCTION	ADAPTATION
Car window initialize	✓
Sliding / Tilting Sunroof Initialize	✓
Battery - Register battery change	✓
Steering Angle	✓
Delete Transport Mode	✓

Specification

CAS Service Functions	✓
IHKA / IHKR Service Functions	✓
Dynamic Drive (ARS System) Service Functions	✓
Solar Rain / Light Fogging Sensor Initialize	✓
Enable Seat Occupancy Mat (US only)	✓
Remote Control / Key	✓
Injector rate adjustment	✓
Particulate filter	✓
Ride level adjustment	✓

CBS / SERVICE RESET

CONTROL FUNCTION	SERVICE RESET
Engine Oil	✓
Spark Plugs (if fitted)	✓
Front Brakes	✓
Rear Brakes	✓
Brake Fluid	✓
Coolant (if fitted)	✓
Diesel Particle Filter (Diesel Engine Only, if fitted)	✓
Setting Time	✓
Brake Fluid	✓
Microfilter (if fitted)	✓
Vehicle Inspection	✓
Exhaust Emission Inspection	✓
Vehicle Check	✓

7-SERIES, E38 / E38/2 (Long Wheel Base) / E38/3 (Protection) 1994 - 2001

DRIVE SYSTEMS

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
DME for M52 / M60 / M62 / M73 Petrol Engine	✓	✓	✓	✓	✓	
DDE for M51 / M57 / M67 Diesel Engine	✓	✓	✓	✓	✓	
EGS / AGS Auto Transmission	✓	✓	✓	✓		
EML Electric Throttle	✓	✓				
EWS Immobilizer	✓	✓			✓ (DME/DDE Sync)	
GR2 Cruise Control	✓					

DME clear adaption / adaption, functions list: (Some functions are optional because of the default factory setting)

1. Oxygen Sensor / Lambda
2. Throttle Position Sensor
3. Idle air / Idle speed fluid control
4. Irregular running
5. Closing time
6. Height correction
7. Throttle valve
8. Knock control
9. All adaption

DDE adaption, functions list: (Some functions are optional because of the default factory setting)

1. Idle speed control

CHASSIS

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
ABS / ASC / DSC Automatic Stability Control Dynamic Stability Control	✓	✓	✓			
EHC Electronic Ride-Height Control	✓	✓	✓			
RDC Tyre Pressure	✓	✓	✓			

BODY

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
SRS Airbag	✓	✓				
IKE / IKI / KOMBI Instrument cluster	✓	✓	✓			
PDC Park Distance Control	✓	✓	✓			
LCM / LSZ Light Check Module	✓	✓	✓			
ZKE Central Body System	✓	✓	✓			
SZM Switching Center	✓	✓	✓			
XENON, Left Left Xenon	✓	✓				
XENON, Right Right Xenon	✓	✓				
AIC / RLS Rain / Light Sensor	✓	✓			Initialization	
MFL Multi-functional Steering Wheel		✓				
SHD Sunroof	✓	✓	✓			
SM Seat Memory	✓	✓	✓			
BSM		✓				

Seat Memory, Passenger Side						
CCM Check Control		✓				
FBZV Remote Control for Central Lock		✓				
HKM Trunk Lid Module		✓				
SBE2 Seat Occupation Detection		✓				
SPMBT Mirror Memory, Passenger Side		✓				
SPMFT Mirror Memory, Driver Side		✓				
STH Additional Heater		✓				
LWS Steering Angle		✓				
ELV Electric Steering		✓				
LRA Headlight Vertical Aim Control	✓	✓	✓			

INFORMATION AND COMMUNICATION

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
RAD Radio	✓	✓	✓			
BIT Basis-Interface Telephone	✓	✓	✓			
BMBT On-Board Monitor	✓					
DSP DSP-booster	✓					
MID Multi-Information Display	✓					
FID Rear Multi-Information Display	✓					
IRIS	✓					

Specification

Integrated Radio Information						
NAV Navigation System	✓					
NAV JAP Navigation System, Japanese	✓		✓			
VIDEO_GT Video Module Graphics Part	✓					
VIDEO_TV / VID Video Module, TV	✓					
SES Voice Recognition	✓		✓			

AIR CONDITIONING

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
IHKA / IHKR Regulated Heating and A/C	✓	✓	✓			
FGB Rear Compartment Blower	✓	✓	✓			

EQUIPMENT FUNCTION SETUP

FUNCTION	ADAPTATION
Solar Rain / Light Fogging Sensor Initialize	✓

7-SERIES, E32 1986 - 1994

DRIVE SYSTEMS

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
DME for M30 / M50 / M70 Petrol Engine	✓	✓	✓	✓	✓	
DDE for M51 Diesel Engine	✓	✓	✓	✓	✓	
EGS Auto Transmission	✓	✓	✓	✓		
EML Electric Throttle	✓	✓				
EWS Immobilizer	✓	✓			✓ (DME/DDE Sync)	

DME clear adaption / adaption, functions list: (Some functions are optional because of the default factory setting)

1. All adaption

DDE adaption, functions list: (Some functions are optional because of the default factory setting)

1. Idle speed control

CHASSIS

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
ABS / ASC / DSC Automatic Stability Control Dynamic Stability Control	✓	✓	✓			
EDC Electronic Dapmer Control	✓	✓	✓			
AHK Active Rear Axle	✓	✓	✓			

BODY

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
SRS Airbag	✓	✓				
IKE / IKI / KOMBI Instrument cluster	✓	✓	✓			

Specification

ZKE Central Body System	✓	✓	✓			
EKM Electric Body Module	✓					
LCM / LM Light Check Module	✓	✓	✓			

INFORMATION AND COMMUNICATION

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
MID / ZIS Multi-Information Display	✓					

AIR CONDITIONING

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
IHKA / IHKR Regulated Heating and A/C	✓	✓	✓			

5-SERIES, E60 (SEDAN) / E61 (STATION WAGON) 2002 – 2008

DRIVE SYSTEMS

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
DME M54 / N43 / N46 / N52 / N53 / N54 / N62 / S85 Petrol Engine	✓	✓	✓	✓	✓	
DDE M47 / M57 / N47 Diesel Engine	✓	✓	✓	✓	✓	
EGS Auto Transmission	✓	✓	✓	✓	✓	
GWS Gear Selector Switch	✓	✓	✓			
EKPS Fuel-Pump Control	✓	✓	✓			
DWA Anti-Theft Alarm	✓	✓	✓			
CAS Car Access	✓	✓	✓		✓ (DME/DDE Sync)	
VTG Transfer Case	✓	✓	✓			
VTC1 Valvetronics 1	✓					The sub-system of DME
VTC2 Valvetronics 2	✓					The sub-system of DME

DME adaptation, functions list: (Some functions are optional because of the default factory setting)

1. Idle speed control
2. Learning Valvetronic limit positions
3. CO Adjustment
4. Consumption Indicator
5. Minimum Stroke Adjustment
6. Remove Valvetronic servomotor

DDE adaptation, functions list: (Some functions are optional because of the default factory setting)

1. Idle speed control
2. Injector rate adjustment
3. Particulate filter
4. Adaptations

5. Balance test

6. Exhaust-gas recirculation

EGS adaptation, functions list: (Some functions are optional because of the default factory setting)

1. Reset learning functions

CHASSIS

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
DSC Dynamic Stability Control	✓	✓	✓			
AL / AFS Active Steering	✓	✓				
RDC Tire Pressure Control	✓	✓	✓			
ACC / LRR Active Cruise Control Long-Range Sensor	✓					
ARS Dynamic Drive	✓	✓	✓			
EDC Damper Control	✓	✓	✓			
LDM Longitudinal Dynamics Management	✓	✓				

BODY

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
SBSL SRS / Airbag, B-Pillar Left	✓	✓				
SBSR SRS / Airbag, B-Pillar Right	✓	✓				
SFZ SRS / Airbag, Vehicle Center	✓	✓				
ACSM / MRS / SIM Crash Safety Module / Safety Info	✓	✓				
KOMBI Instrument cluster	✓	✓	✓			
PDC Park Distance Control	✓	✓	✓			

Specification

FZD Function Center, Roof	✓	✓	✓			
SMFA Seat Module, Driver	✓	✓	✓			
SMBF Seat Module, Passenger	✓	✓	✓			
SHD Sliding / Tilting Sunroof	✓	✓	✓			
FRM / KBM Footwell / Body Basic Module	✓	✓	✓			
LM Light Module	✓	✓	✓			
SZL Switch Center	✓	✓	✓		Initialization	
SZM Control Centre	✓	✓	✓			
TMFA Driver Door	✓	✓	✓			
TMBF Passenger Door	✓	✓	✓			
FLA High Beam Assist	✓	✓	✓			
AHM Trailer Module	✓	✓	✓			
SINE Siren with Tilt Sensor	✓	✓				
AHM Trailer Module	✓					
ALBFA Active Backrest Width, Driver	✓	✓	✓			
ALBBF Active Backrest Width, Passenger	✓	✓	✓			
RLS Rain Sensor	✓	✓				
CVM / CTM Convertible Top	✓	✓				

INFORMATION AND COMMUNICATION

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
SZGM / JBE / KGM Safety and Gateway Module Junction-Box Electronics Body Gateway Module	✓	✓	✓			
CDC CD Changer	✓		✓			
DVDC DVD Changer	✓		✓			
CCC-ASK Audio System	✓	✓	✓			
CCC-ANT Antenna Tuner	✓					
CD / RAD / MBO / CCC-BO / CHAMP-BO / M-ASK-BO Control Display / User Interface	✓	✓	✓			
CD-GW / M-ASK-GW / RAD2GW / CCC-GW / CHAMP-GW Gateway	✓	✓	✓			
CID Central Information Display	✓	✓	✓			
CON Controller	✓	✓	✓			
TCU / ULF Telephone Control Unit / Universal Bluetooth Hands-Free System	✓	✓	✓			
AMP Amplifier	✓	✓	✓			
CCC-A Applications	✓	✓	✓			
HUD Head-up Display	✓	✓	✓			
CA Comfort Access	✓	✓				
DAB Digital Tuner	✓					

Specification

KHM / KHI Headphones Module Headset Interface	✓					
NVK Night Vision Camera	✓					
NVE Night Vision Electronics	✓	✓	✓			
SHZH Independent / Auxiliary Heater	✓					
SVS Language Processing System	✓					
VM Video Module	✓	✓	✓			
MASK-NAV / CNAV / JNAV / KNAV Navigation System	✓	✓	✓			
SDARS Satellite Tuner	✓	✓	✓			
IBOC Digital Tuner US	✓	✓	✓			
PM Power Module	✓	✓	✓			

AIR CONDITIONING

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
IHKA / IHKR Regulated Heating and A/C	✓	✓	✓			

EQUIPMENT FUNCTION SETUP

FUNCTION	ADAPTATION
Car window initialize	✓
Sliding / Tilting Sunroof Initialize	✓
Battery (1).Register battery change (2).Evaluate battery charge state	✓
Steering Angle	✓

AFS Initialization / Adjustment	✓
Delete Transport Mode	✓
CAS Service Functions	✓
IHKA / IHKR Service Functions	✓
SMG Transmission Control (Adjustment / Initialization)	✓
Brake Bleed Routine	✓
Dynamic Drive (ARS System) Service Functions	✓
Solar Rain / Light Fogging Sensor Initialize	✓
DSC Service Functions	✓
Active Backrest Width, Driver's Side, Initialization	✓
Active Backrest width, Passenger's Side, Initialization	✓
Enable Seat Occupancy Mat (US only)	✓
Remote Control / Key	✓
Injector rate adjustment	✓
Particulate filter	✓
Tyre defect indicator	✓
VTG service functions	✓

CBS / SERVICE RESET

CONTROL FUNCTION	SERVICE RESET
Engine Oil	✓
Spark Plugs (if fitted)	✓
Front Brakes	✓
Rear Brakes	✓
Brake Fluid	✓
Coolant (if fitted)	✓
Diesel Particle Filter (Diesel Engine Only, if fitted)	✓
Setting Time	✓
Brake Fluid	✓
Microfilter (if fitted)	✓
Vehicle Inspection	✓

Specification

Exhaust Emission Inspection	✓
Vehicle Check	✓

5-SERIES, E39 1995 - 2003

DRIVE SYSTEMS

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
DME for M52 / M54 / M62 / S62 Petrol Engine	✓	✓	✓	✓	✓	
DDE for M47 / M51 / M57 Diesel Engine	✓	✓	✓	✓	✓	
EGS / AGS Auto Transmission	✓	✓	✓	✓		
EWS Immobilizer	✓	✓			✓ (DME/DDE Sync)	
GR2 Cruise Control	✓					

DME clear adaption / adaption, functions list: (Some functions are optional because of the default factory setting)

1. All adaption

DDE adaption, functions list: (Some functions are optional because of the default factory setting)

1. Idle speed control

CHASSIS

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
ABS / ASC / DSC Automatic Stability Control Dynamic Stability Control	✓	✓	✓		✓	
EHC Electronic Ride-Height Control	✓	✓	✓			
RDC Tyre Pressure	✓	✓	✓			

DSC, functions list: (Some functions are optional because of the default factory setting)

1. DSC hydraulics bleeding
2. Calibration of DSC sensor
 - (1).Steering-angle sensor
 - (2).Rate of rotation sensor
 - (3).Lateral acceleration sensor

BODY

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
SRS Airbag	✓	✓				
IKE / IKI / KOMBI Instrument cluster	✓	✓	✓			
PDC Park Distance Control	✓	✓	✓			
LCM / LSZ Light Check Module	✓	✓	✓			
ZKE Central Body System	✓	✓	✓			
SZM Switching Center	✓	✓	✓			
XENON, Left Left Xenon	✓	✓				
XENON, Right Right Xenon	✓	✓				
AIC / RLS Rain / Light Sensor	✓	✓			Initialization	
MFL Multi-functional Steering Wheel		✓				
SHD Sunroof	✓	✓	✓			
SM Seat Memory	✓	✓	✓			
BSM Seat Memory, Passenger Side		✓				
CCM Check Control		✓				
FBZV Remote Control for Central Lock		✓				
HKM Trunk Lid Module		✓				
SBE2 Seat Occupation Detection		✓				
SPMBT Mirror Memory, Passenger Side		✓				

SPMFT Mirror Memory, Driver Side		✓				
STH Additional Heater		✓				
LWS Steering Angle		✓				
ELV Electric Steering		✓				
LRA Headlight Vertical Aim Control	✓	✓	✓			

INFORMATION AND COMMUNICATION

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
RAD Radio	✓	✓	✓			
BIT Basis-Interface Telephone	✓	✓	✓			
BMBT On-Board Monitor	✓					
DSP DSP-booster	✓					
MID Multi-Information Display	✓					
FID Rear Multi-Information Display	✓					
IRIS Integrated Radio Information	✓					
NAV Navigation System	✓					
NAV JAP Navigation System, Japanese	✓		✓			
VIDEO_GT Video Module Graphics Part	✓					
VIDEO_TV / VID Video Module, TV	✓					
SES Voice Recognition	✓		✓			

AIR CONDITIONING

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
IHKA / IHKR Regulated Heating and A/C	✓	✓	✓			
FGB Rear Compartment Blower	✓	✓	✓			

EQUIPMENT FUNCTION SETUP

FUNCTION	ADAPTATION
Delete Transport Mode	✓
Solar Rain / Light Fogging Sensor Initialize	✓

5-SERIES, E34 1988 - 1996

DRIVE SYSTEMS

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
DME for M20 / M30 / M40 / M43 / M50 / S38 Petrol Engine	✓	✓	✓	✓	✓	
DDE for M21 / M51 Diesel Engine	✓	✓	✓	✓	✓	
EGS Auto Transmission	✓	✓	✓	✓		
EWS Immobilizer	✓	✓			✓ (DME/DDE Sync)	

DME clear adaption / adaption, functions list: (Some functions are optional because of the default factory setting)

1. All adaption

DDE adaption, functions list: (Some functions are optional because of the default factory setting)

1. Idle speed control

CHASSIS

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
ABS / ASC / DSC Automatic Stability Control Dynamic Stability Control	✓	✓	✓			
AHK Active Rear Axle	✓	✓	✓			

BODY

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
SRS Airbag	✓	✓				
IKE / IKI / KOMBI Instrument cluster	✓	✓	✓			
ZKE Central Body System	✓	✓	✓			
EKM	✓					

Electric Body Module						
LCM / LM Light Check Module	✓	✓	✓			

INFORMATION AND COMMUNICATION

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
MID / ZIS Multi-Information Display	✓					

AIR CONDITIONING

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
IHKA / IHKR Regulated Heating and A/C	✓	✓	✓			

5-SERIES, E28 ~1988

DRIVE SYSTEMS

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
DME for M20 / M30 / S38 Petrol Engine	✓	✓	✓	✓		

3-SERIES, E90 (SEDAN) / E91 (Touring) / E92 (Coupé) / E93 (Coupé Cabriolet) 2006 – 2011

DRIVE SYSTEMS

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
DME N43 / N45 / N46 / N51 / N52 / N53 / N54 / N55 / S65 Petrol Engine	✓	✓	✓	✓	✓	
DDE N47 / N57 / M47 / M57 Diesel Engine	✓	✓	✓	✓	✓	
EGS Auto Transmission	✓	✓	✓	✓	✓	
DKG Twin Clutch Gearbox	✓	✓	✓	✓	✓	
GWS Gear Selector Switch	✓	✓	✓			
EKPS Fuel-Pump Control	✓	✓	✓			
DWA Anti-Theft Alarm	✓	✓	✓			
CAS Car Access	✓	✓	✓		✓ (DME/DDE Sync)	
VTG Transfer Case	✓	✓	✓			
VTC1 Valvetronics 1	✓					The sub-system of DME
VTC2 Valvetronics 2	✓					The sub-system of DME

DME adaptation, functions list: (Some functions are optional because of the default factory setting)

1. Idle speed control
2. Learning Valvetronic limit positions
3. CO Adjustment
4. Consumption Indicator
5. Minimum Stroke Adjustment
6. Injector rate adjustment

DDE adaption, functions list: (Some functions are optional because of the default factory setting)

1. Idle speed control
2. Injector rate adjustment

- 3. Particulate filter
- 4. Adaptations
- 5. Balance test
- 6. Exhaust-gas recirculation

EGS adaptation, functions list: (Some functions are optional because of the default factory setting)

- 1. Reset learning functions

DKG adaptation, functions list:

- 1. Transmission adaptation
- 2. Clutch adaptation
- 3. Teach in valve characteristic curve

CHASSIS

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
DSC Dynamic Stability Control	✓	✓	✓			
AL / AFS Active Steering	✓	✓				
RDC Tire Pressure Control	✓	✓	✓			
ACC / LRR Active Cruise Control Long-Range Sensor	✓					
ARS Dynamic Drive	✓	✓	✓			
EDC Damper Control	✓	✓	✓			
LDM Longitudinal Dynamics Management	✓	✓				

BODY

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
SBSL SRS / Airbag, B-Pillar Left	✓	✓				
SBSR SRS / Airbag, B-Pillar Right	✓	✓				
SFZ SRS / Airbag, Vehicle Center	✓	✓				

ACSM / MRS / SIM Crash Safety Module / Safety Info	✓	✓				
KOMBI Instrument cluster	✓	✓	✓			
PDC Park Distance Control	✓	✓	✓			
FZD Function Center, Roof	✓	✓	✓			
SMFA Seat Module, Driver	✓	✓	✓			
SMBF Seat Module, Passenger	✓	✓	✓			
SHD Sliding / Tilting Sunroof	✓	✓	✓			
FRM / KBM Footwell / Body Basic Module	✓	✓	✓			
LM Light Module	✓	✓	✓			
SZL Switch Center	✓	✓	✓		Initialization	
SZM Control Centre	✓	✓	✓			
TMFA Driver Door	✓	✓	✓			
TMBF Passenger Door	✓	✓	✓			
FLA High Beam Assist	✓	✓	✓			
AHM Trailer Module	✓	✓	✓			
SINE Siren with Tilt Sensor	✓	✓				
AHM Trailer Module	✓					
ALBFA Active Backrest Width, Driver	✓	✓	✓			
ALBBF Active Backrest Width, Passenger	✓	✓	✓			

Specification

RLS Rain Sensor	✓	✓				
CVM / CTM Convertible Top	✓	✓				

INFORMATION AND COMMUNICATION

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
SZGM / JBE / KGM Safety and Gateway Module Junction-Box Electronics Body Gateway Module	✓	✓	✓			
CDC CD Changer	✓		✓			
DVDC DVD Changer	✓		✓			
CCC-ASK Audio System	✓	✓	✓			
CCC-ANT Antenna Tuner	✓					
CD / RAD / MBO / CCC-BO / CHAMP-BO / M-ASK-BO Control Display / User Interface	✓	✓	✓			
CD-GW / M-ASK-GW / RAD2GW / CCC-GW / CHAMP-GW Gateway	✓	✓	✓			
CID Cnetral Information Display	✓	✓	✓			
CON Controller	✓	✓	✓			
TCU / ULF Telephone Control Unit / Universal Bluetooth Hands-Free System	✓	✓	✓			
AMP Amplifier	✓	✓	✓			
CCC-A Applications	✓	✓	✓			
HUD	✓	✓	✓			

Specification

Head-up Display						
CA Comfort Access	✓	✓				
DAB Digital Tuner	✓					
KHM / KHI Headphones Module Headset Interface	✓					
NVK Night Vision Camera	✓					
NVE Night Vision Electronics	✓	✓	✓			
SHZH Independent / Auxiliary Heater	✓					
SVS Language Processing System	✓					
VM Video Module	✓	✓	✓			
MASK-NAV / CNAV / JNAV / KNAV Navigation System	✓	✓	✓			
SDARS Satellite Tuner	✓	✓	✓			
IBOC Digital Tuner US	✓	✓	✓			
PM Power Module	✓	✓	✓			

AIR CONDITIONING

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
IHKA / IHKR Regulated Heating and A/C	✓	✓	✓			

EQUIPMENT FUNCTION SETUP

FUNCTION	ADAPTATION
Car window initialize	✓

Specification

Sliding / Tilting Sunroof Initialize	✓
Battery	
(1).Register battery change	✓
(2).Evaluate battery charge state	
Steering Angle	✓
AFS Initialization / Adjustment	✓
Delete Transport Mode	✓
CAS Service Functions	✓
IHKA / IHKR Service Functions	✓
Brake Bleed Routine	✓
Solar Rain / Light Fogging Sensor Initialize	✓
DSC Service Functions	✓
Enable Seat Occupancy Mat (US only)	✓
Remote Control / Key	✓
Injector rate adjustment	✓
Particulate filter	✓
VTG service functions	✓

CBS / SERVICE RESET

CONTROL FUNCTION	SERVICE RESET
Engine Oil	✓
Spark Plugs (if fitted)	✓
Front Brakes	✓
Rear Brakes	✓
Brake Fluid	✓
Coolant (if fitted)	✓
Diesel Particle Filter (Diesel Engine Only, if fitted)	✓
Setting Time	✓
Brake Fluid	✓
Microfilter (if fitted)	✓
Vehicle Inspection	✓

Specification

Exhaust Emission Inspection	✓
Vehicle Check	✓

3-SERIES, E46 1999 - 2005

DRIVE SYSTEMS

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
DME N40 / N42 / N45 / N46 / M43 / M52 / M54 / M56 / S54 Petrol Engine	✓	✓	✓	✓	✓	
DDE M47 / M57 Diesel Engine	✓	✓	✓	✓	✓	
EGS / AGS Auto Transmission	✓	✓	✓	✓		✓ (SMG2 service functions)
EWS Immobilizer	✓	✓			✓ (DME/DDE Sync)	
GR2 Cruise Control	✓					

DME clear adaption / adaption, functions list: (Some functions are optional because of the default factory setting)

1. All adaption

DME adaption, functions list: (Some functions are optional because of the default factory setting)

1. Idle speed control
2. Learning Valvetronic limit positions
3. Minimum-stroke adjustment

DDE adaption, functions list: (Some functions are optional because of the default factory setting)

1. Idle speed control
2. Injector rate adjustment
3. Balance test
4. Air-mass flow sensor adaptation
5. Quantity mean-value adaptation

SMG2 service functions (SMG2 only), functions list: (Some functions are optional because of the default factory setting)

1. Check battery voltage
2. Hydraulic System Operation Precautions
3. After replacing SMG2 control unit
4. After working on hydraulic system
5. After replacing clutch, clutch slave cylinder
6. After replacing transmission, hydraulic unit
7. After replacing actuator
8. After replacing gear detection

9. After replacing longitudinal acceleration sensor
10. After replacing engine, dual-mass flywheel (ZMS)
11. Test functions

CHASSIS

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
ABS / ASC / DSC Automatic Stability Control Dynamic Stability Control	✓	✓	✓		✓	
RDC Tyre Pressure	✓	✓	✓			

DSC, functions list: (Some functions are optional because of the default factory setting)

1. Calibration of DSC sensor
 - (1).Steering-angle sensor
 - (2).Rate of rotation sensor
 - (3).Lateral acceleration sensor
 - (4).Pressure sensors
 - (5).All sensors

BODY

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
SRS Airbag	✓	✓				
IKE / IKI / KOMBI Instrument cluster	✓	✓	✓			
PDC Park Distance Control	✓	✓	✓			
LCM / LSZ Light Check Module	✓	✓	✓			
ZKE Central Body System	✓	✓	✓			
CVM Convertible Top	✓	✓				
XENON, Left Left Xenon	✓	✓				
XENON, Right Right Xenon	✓	✓				

Specification

AIC / RLS Rain / Light Sensor	✓	✓			Initialization	
MFL Multi-functional Steering Wheel		✓				
SHD Sunroof	✓	✓	✓			
SM Seat Memory	✓	✓	✓			
BSM Seat Memory, Passenger Side		✓				
CCM Check Control		✓				
FBZV Remote Control for Central Lock		✓				
LWS Steering Angle		✓				

INFORMATION AND COMMUNICATION

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
RAD Radio	✓	✓	✓			
BIT Basis-Interface Telephone	✓	✓	✓			
BMBT On-Board Monitor	✓					
DSP DSP-booster	✓					
MID Multi-Information Display	✓					
FID Rear Multi-Information Display	✓					
IRIS Integrated Radio Information	✓					
NAV Navigation System	✓					
NAV JAP Navigation System, Japanese	✓		✓			

Specification

VIDEO_GT Video Module Graphics Part	✓					
VIDEO_TV / VID Video Module, TV	✓					
SES Voice Recognition	✓		✓			

AIR CONDITIONING

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
IHKA / IHKR Regulated Heating and A/C	✓	✓	✓			
FGB Rear Compartment Blower	✓	✓	✓			

EQUIPMENT FUNCTION SETUP

FUNCTION	ADAPTATION
Delete Transport Mode	✓
Solar Rain / Light Fogging Sensor Initialize	✓

3-SERIES, E36 1988 - 1996

DRIVE SYSTEMS

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
DME for M40 / M42 / M43 / M44 / M50 / M52 / S50 Petrol Engine	✓	✓	✓	✓	✓	
DDE for M41 / M51 DieselEngine	✓	✓	✓	✓	✓	
EGS Auto Transmission	✓	✓	✓	✓		
EWS Immobilizer	✓	✓			✓ (DME/DDE Sync)	

DME clear adaption / adaption, functions list: (Some functions are optional because of the default factory setting)

1. All adaption

DDE adaption, functions list: (Some functions are optional because of the default factory setting)

1. Idle speed control

CHASSIS

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
ABS / ASC / DSC Automatic Stability Control Dynamic Stability Control	✓	✓	✓			

BODY

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
SRS Airbag	✓	✓				
IKE / IKI / KOMBI Instrument cluster	✓	✓	✓			
ZKE Central Body System	✓	✓	✓			
CVM Convertible Top	✓	✓				
PDC	✓	✓	✓			

Park Distance						
LWS Steering Angle	✓					

INFORMATION AND COMMUNICATION

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
RAD Radio	✓	✓	✓			
BMBT On-Board Monitor	✓					
MID Multi-Information Display	✓					
IRIS Integrated Radio Information	✓					

AIR CONDITIONING

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
IHKA / IHKR Regulated Heating and A/C	✓	✓	✓			

3-SERIES, E30 ~1994

DRIVE SYSTEMS

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
DME Petrol Engine	✓	✓	✓	✓		

1-SERIES, E81 (Hatchback) / E82 (Coupe) / E87 (Hatchback) / E88 (Convertible) 2004 – 2011

DRIVE SYSTEMS

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
DME N43 / N45 / N46 / N51 / N52 / N54 / N55 Petrol Engine	✓	✓	✓	✓	✓	
DDE M47 / N47 Diesel Engine	✓	✓	✓	✓	✓	
EGS Auto Transmission	✓	✓	✓	✓	✓	
GWS Gear Selector Switch	✓	✓	✓			
EKPS Fuel-Pump Control	✓	✓	✓			
DWA Anti-Theft Alarm	✓	✓	✓			
CAS Car Access	✓	✓	✓		✓ (DME/DDE Sync)	
VTG Transfer Case	✓	✓	✓			
VTC1 Valvetronics 1	✓					The sub-system of DME
VTC2 Valvetronics 2	✓					The sub-system of DME

DME adaptation, functions list: (Some functions are optional because of the default factory setting)

1. Idle speed control
2. Learning Valvetronic limit positions
3. CO Adjustment
4. Consumption Indicator
5. Minimum Stroke Adjustment

DDE adaptation, functions list: (Some functions are optional because of the default factory setting)

1. Idle speed control
2. Injector rate adjustment
3. Particulate filter
4. Adaptations
5. Balance test

6. Exhaust-gas recirculation

EGS adaptation, functions list: (Some functions are optional because of the default factory setting)

1. Reset learning functions

CHASSIS

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
DSC Dynamic Stability Control	✓	✓	✓			
AL / AFS Active Steering	✓	✓				
RDC Tire Pressure Control	✓	✓	✓			
ACC / LRR Active Cruise Control Long-Range Sensor	✓					
ARS Dynamic Drive	✓	✓	✓			
EDC Damper Control	✓	✓	✓			
LDM Longitudinal Dynamics Management	✓	✓				

BODY

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
SBSL SRS / Airbag, B-Pillar Left	✓	✓				
SBSR SRS / Airbag, B-Pillar Right	✓	✓				
SFZ SRS / Airbag, Vehicle Center	✓	✓				
ACSM / MRS / SIM Crash Safety Module / Safety Info	✓	✓				
KOMBI Instrument cluster	✓	✓	✓			
PDC Park Distance Control	✓	✓	✓			
FZD	✓	✓	✓			

Function Center, Roof						
SMFA Seat Module, Driver	✓	✓	✓			
SMBF Seat Module, Passenger	✓	✓	✓			
SHD Sliding / Tilting Sunroof	✓	✓	✓			
FRM / KBM Footwell / Body Basic Module	✓	✓	✓			
LM Light Module	✓	✓	✓			
SZL Switch Center	✓	✓	✓		Initialization	
SZM Control Centre	✓	✓	✓			
TMFA Driver Door	✓	✓	✓			
TMBF Passenger Door	✓	✓	✓			
FLA High Beam Assist	✓	✓	✓			
AHM Trailer Module	✓	✓	✓			
SINE Siren with Tilt Sensor	✓	✓				
AHM Trailer Module	✓					
ALBFA Active Backrest Width, Driver	✓	✓	✓			
ALBBF Active Backrest Width, Passenger	✓	✓	✓			
RLS Rain Sensor	✓	✓				
CVM / CTM Convertible Top	✓	✓				

INFORMATION AND COMMUNICATION

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
SZGM / JBE / KGM Safety and Gateway Module Junction-Box Electronics Body Gateway Module	✓	✓	✓			
CDC CD Changer	✓		✓			
DVDC DVD Changer	✓		✓			
CCC-ASK Audio System	✓	✓	✓			
CCC-ANT Antenna Tuner	✓					
CD / RAD / MBO / CCC-BO / CHAMP-BO / M-ASK-BO Control Display / User Interface	✓	✓	✓			
CD-GW / M-ASK-GW / RAD2GW / CCC-GW / CHAMP-GW Gateway	✓	✓	✓			
CID Central Information Display	✓	✓	✓			
CON Controller	✓	✓	✓			
TCU / ULF Telephone Control Unit / Universal Bluetooth Hands-Free System	✓	✓	✓			
AMP Amplifier	✓	✓	✓			
CCC-A Applications	✓	✓	✓			
HUD Head-up Display	✓	✓	✓			
CA Comfort Access	✓	✓				
DAB Digital Tuner	✓					

Specification

KHM / KHI Headphones Module Headset Interface	✓					
NVK Night Vision Camera	✓					
NVE Night Vision Electronics	✓	✓	✓			
SHZH Independent / Auxiliary Heater	✓					
SVS Language Processing System	✓					
VM Video Module	✓	✓	✓			
MASK-NAV / CNAV / JNAV / KNAV Navigation System	✓	✓	✓			
SDARS Satellite Tuner	✓	✓	✓			
IBOC Digital Tuner US	✓	✓	✓			
PM Power Module	✓	✓	✓			

AIR CONDITIONING

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
IHKA / IHKR Regulated Heating and A/C	✓	✓	✓			

EQUIPMENT FUNCTION SETUP

FUNCTION	ADAPTATION
Car window initialize	✓
Sliding / Tilting Sunroof Initialize	✓
Battery (1).Register battery change (2).Evaluate battery charge state	✓
Steering Angle	✓

AFS Initialization / Adjustment	✓
Delete Transport Mode	✓
CAS Service Functions	✓
IHKA / IHKR Service Functions	✓
Brake Bleed Routine	✓
Solar Rain / Light Fogging Sensor Initialize	✓
DSC Service Functions	✓
Remote Control / Key	✓
Injector rate adjustment	✓
Particulate filter	✓
Enable seat occupancy mat (US only)	✓

CBS / SERVICE RESET

CONTROL FUNCTION	SERVICE RESET
Engine Oil	✓
Spark Plugs (if fitted)	✓
Front Brakes	✓
Rear Brakes	✓
Brake Fluid	✓
Coolant (if fitted)	✓
Diesel Particle Filter (Diesel Engine Only, if fitted)	✓
Setting Time	✓
Brake Fluid	✓
Microfilter (if fitted)	✓
Vehicle Inspection	✓
Exhaust Emission Inspection	✓
Vehicle Check	✓

6-SERIES, E63 (Coupé) / E64 (Cabriolet) 2003 – 2010

DRIVE SYSTEMS

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
DME N52 / N53 / N62 / N85 Petrol Engine	✓	✓	✓	✓	✓	
DDE M57 Diesel Engine	✓	✓	✓	✓	✓	
EGS Auto Transmission	✓	✓	✓	✓	✓	
GWS Gear Selector Switch	✓	✓	✓			
EKPS Fuel-Pump Control	✓	✓	✓			
DWA Anti-Theft Alarm	✓	✓	✓			
CAS Car Access	✓	✓	✓		✓ (DME/DDE Sync)	
VTG Transfer Case	✓	✓	✓			
VTC1 Valvetronics 1	✓					The sub-system of DME
VTC2 Valvetronics 2	✓					The sub-system of DME

DME adaptation, functions list: (Some functions are optional because of the default factory setting)

1. Idle speed control
2. Learning Valvetronic limit positions
3. CO Adjustment
4. Consumption Indicator
5. Minimum Stroke Adjustment
6. Remove Valvetronic servomotor

DDE adaptation, functions list: (Some functions are optional because of the default factory setting)

1. Idle speed control
2. Injector rate adjustment
3. Particulate filter
4. Adaptations
5. Balance test

6. Exhaust-gas recirculation

EGS adaptation, functions list: (Some functions are optional because of the default factory setting)

1. Reset learning functions

CHASSIS

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
DSC Dynamic Stability Control	✓	✓	✓			
AL / AFS Active Steering	✓	✓				
RDC Tire Pressure Control	✓	✓	✓			
ACC / LRR Active Cruise Control Long-Range Sensor	✓					
ARS Dynamic Drive	✓	✓	✓			
EDC Damper Control	✓	✓	✓			
LDM Longitudinal Dynamics Management	✓	✓				

BODY

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
SBSL SRS / Airbag, B-Pillar Left	✓	✓				
SBSR SRS / Airbag, B-Pillar Right	✓	✓				
SFZ SRS / Airbag, Vehicle Center	✓	✓				
ACSM / MRS / SIM Crash Safety Module / Safety Info	✓	✓				
KOMBI Instrument cluster	✓	✓	✓			
PDC Park Distance Control	✓	✓	✓			
FZD	✓	✓	✓			

Function Center, Roof						
SMFA Seat Module, Driver	✓	✓	✓			
SMBF Seat Module, Passenger	✓	✓	✓			
SHD Sliding / Tilting Sunroof	✓	✓	✓			
FRM / KBM Footwell / Body Basic Module	✓	✓	✓			
LM Light Module	✓	✓	✓			
SZL Switch Center	✓	✓	✓		Initialization	
SZM Control Centre	✓	✓	✓			
TMFA Driver Door	✓	✓	✓			
TMBF Passenger Door	✓	✓	✓			
FLA High Beam Assist	✓	✓	✓			
AHM Trailer Module	✓	✓	✓			
SINE Siren with Tilt Sensor	✓	✓				
AHM Trailer Module	✓					
ALBFA Active Backrest Width, Driver	✓	✓	✓			
ALBBF Active Backrest Width, Passenger	✓	✓	✓			
RLS Rain Sensor	✓	✓				
CVM / CTM Convertible Top	✓	✓				

INFORMATION AND COMMUNICATION

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
SZGM / JBE / KGM Safety and Gateway Module Junction-Box Electronics Body Gateway Module	✓	✓	✓			
CDC CD Changer	✓		✓			
DVDC DVD Changer	✓		✓			
CCC-ASK Audio System	✓	✓	✓			
CCC-ANT Antenna Tuner	✓					
CD / RAD / MBO / CCC-BO / CHAMP-BO / M-ASK-BO Control Display / User Interface	✓	✓	✓			
CD-GW / M-ASK-GW / RAD2GW / CCC-GW / CHAMP-GW Gateway	✓	✓	✓			
CID Cnetral Information Display	✓	✓	✓			
CON Controller	✓	✓	✓			
TCU / ULF Telephone Control Unit / Universal Bluetooth Hands-Free System	✓	✓	✓			
AMP Amplifier	✓	✓	✓			
CCC-A Applications	✓	✓	✓			
HUD Head-up Display	✓	✓	✓			
CA Comfort Access	✓	✓				

Specification

DAB Digital Tuner	✓					
KHM / KHI Headphones Module Headset Interface	✓					
NVK Night Vision Camera	✓					
NVE Night Vision Electronics	✓	✓	✓			
SHZH Independent / Auxiliary Heater	✓					
SVS Language Processing System	✓					
VM Video Module	✓	✓	✓			
MASK-NAV / CNAV / JNAV / KNAV Navigation System	✓	✓	✓			
SDARS Satellite Tuner	✓	✓	✓			
IBOC Digital Tuner US	✓	✓	✓			
PM Power Module	✓	✓	✓			

AIR CONDITIONING

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
IHKA / IHKR Regulated Heating and A/C	✓	✓	✓			

EQUIPMENT FUNCTION SETUP

FUNCTION	ADAPTATION
Car window initialize	✓
Sliding / Tilting Sunroof Initialize	✓
Battery (1).Register battery change (2).Evaluate battery charge state	✓

Steering Angle	✓
AFS Initialization / Adjustment	✓
Delete Transport Mode	✓
CAS Service Functions	✓
IHKA / IHKR Service Functions	✓
SMG Transmission Control (Adjustment / Initialization)	✓
Brake Bleed Routine	✓
Dynamic Drive (ARS System) Service Functions	✓
Solar Rain / Light Fogging Sensor Initialize	✓
DSC Service Functions	✓
Enable Seat Occupancy Mat (US only)	✓
Remote Control / Key	✓
Injector rate adjustment	✓
Particulate filter	✓
Tyre defect indicator	✓

CBS / SERVICE RESET

CONTROL FUNCTION	SERVICE RESET
Engine Oil	✓
Spark Plugs (if fitted)	✓
Front Brakes	✓
Rear Brakes	✓
Brake Fluid	✓
Coolant (if fitted)	✓
Diesel Particle Filter (Diesel Engine Only, if fitted)	✓
Setting Time	✓
Brake Fluid	✓
Microfilter (if fitted)	✓
Vehicle Inspection	✓
Exhaust Emission Inspection	✓

Vehicle Check	✓
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8-SERIES, E31 1989 - 1999

DRIVE SYSTEMS

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
DME Petrol Engine	✓	✓	✓	✓	✓	
DDE Diesel Engine	✓	✓	✓	✓	✓	
EGS Auto Transmission	✓	✓	✓	✓		
EML Electric Throttle	✓	✓				
EWS Immobilizer	✓	✓			✓ (DME/DDE Sync)	

DME clear adaption / adaption, functions list: (Some functions are optional because of the default factory setting)

1. All adaption

DDE adaption, functions list: (Some functions are optional because of the default factory setting)

1. Idle speed control

CHASSIS

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
ABS / ASC / DSC Automatic Stability Control Dynamic Stability Control	✓	✓	✓			
EHC Electronic Ride-Height Control	✓	✓	✓			

BODY

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
SRS Airbag	✓	✓				
IKE / IKI / KOMBI Instrument cluster	✓	✓	✓			
LCM / LSZ Light Check Module	✓	✓	✓			

Specification

ZKE Central Body System	✓	✓	✓			
EKM Electric Body Module	✓					

INFORMATION AND COMMUNICATION

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
MID Multi-Information Display	✓					

AIR CONDITIONING

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
IHKA / IHKR Regulated Heating and A/C	✓	✓	✓			

X6-SERIES, E71 / E72 (ActiveHybrid) 2008-

DRIVE SYSTEMS

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
DME N54 / N55 / N63 / S63 Petrol Engine	✓	✓	✓	✓	✓	
DDE N57 / M57 Diesel Engine	✓	✓	✓	✓	✓	
EGS Auto Transmission	✓	✓	✓	✓	✓	
VTG Transfer Case	✓	✓	✓			
CAS Car Access	✓	✓	✓		✓ (DME/DDE Sync)	
EKPS Fuel-pump	✓	✓	✓			
GWS Gear Selector Switch	✓	✓	✓			
QMVH Lateral-Moment Distribution, Rear Axle	✓	✓	✓			

DME adaptation, functions list: (Some functions are optional because of the default factory setting)

1. Idle speed control
2. Injector rate adjustment

DDE adaptation, functions list: (Some functions are optional because of the default factory setting)

1. Idle speed control
2. Injector rate adjustment
3. Particulate filter
4. Adaptations
5. Balance test
6. Exhaust-gas recirculation

EGS adaptation, functions list: (Some functions are optional because of the default factory setting)

1. Reset learning functions

CHASSIS

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
DSC Dynamic Stability Control	✓	✓	✓			
EHC Electronic Ride-Height Control	✓	✓	✓			
EMF Parking Brake	✓	✓	✓		Initialization	
AL/AFS Active Steering	✓	✓				
EDCSHL Damper Satellite, Rear Left	✓	✓	✓			
EDCSHR Damper Satellite, Rear Reft	✓	✓	✓			
EDCSVL Damper Satellite, Front Left	✓	✓	✓			
EDCSVR Damper Satellite, Front Right	✓	✓	✓			
ICM / LDM Integrated Chassis Control	✓	✓	✓			
RDC Tire Pressure Control	✓	✓	✓			
VDM Vertical Dynamics Management	✓	✓	✓			
ARS Dynamic Drive	✓	✓	✓			

BODY

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
ACSM / MRS / SIM Crash Safety Module Multiple Restraint System Safety Information	✓	✓	✓			
KOMBI Instrument cluster	✓	✓	✓			
PDC Park Distance Control	✓	✓	✓			

Specification

FZD Function Center	✓	✓	✓			
HKL Rear-lid Lift	✓	✓			Initialization	
RLS / AIC Rain / Light Sensor	✓	✓	✓			
FLA High Beam Assist	✓	✓	✓			
FRM / KBM Footwell Module	✓	✓	✓			
RFK Reversing Camera	✓					
SMFA Seat Module, Driver	✓	✓	✓		Initialization	
SMBF Seat Module, Passenger	✓	✓	✓		Initialization	
AHM Trailer Module	✓	✓	✓			
TRSV All Round View Camera	✓	✓	✓			
SINE Siren With Tilt Sensor	✓	✓				

INFORMATION AND COMMUNICATION

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
SZGM / JBE / KGM Safety and Gateway Module Junction-Box Electronics Body Gateway Module	✓	✓	✓			
CDC CD Changer	✓		✓			
DVDC DVD Changer	✓		✓			
CCC-ASK Audio System	✓	✓	✓			
CCC-ANT Antenna Tuner	✓					

Specification

CD / RAD / MBO / CCC-BO / CHAMP-BO / M-ASK-BO Control Display / User Interface	✓	✓	✓			
CD-GW / M-ASK-GW / RAD2GW / CCC-GW / CHAMP-GW Gateway	✓	✓	✓			
CID Cnetral Information Display	✓	✓	✓			
CON Controller	✓	✓	✓			
TCU / ULF-SBX Telephone Control Unit / Universal Bluetooth Hands-Free System	✓	✓	✓			
ULF-SBX Interface Box	✓	✓	✓			
AMP Amplifier	✓	✓	✓			
CCC-A Applications	✓	✓	✓			
HUD Head-up Display	✓	✓	✓			
CA Comfort Access	✓	✓				
DAB Digital Tuner	✓					
KHM / KHI Headphones Module Headset Interface	✓					
VSW Video Switch	✓	✓	✓			
FD Rear-Cabin Display	✓					
VM Video Module	✓	✓	✓			
MASK-NAV / CNAV / JNAV / KNAV Navigation System	✓	✓	✓			
SDARS	✓	✓	✓			

Specification

Satellite Tuner						
IBOC Digital Tuner US	✓	✓	✓			
RSE Rear Seat Entertainment	✓	✓	✓			

AIR CONDITIONING

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
IHKA Regulated Heating and A/C	✓	✓	✓			
FKA Rear heater/air conditioning	✓	✓	✓			

EQUIPMENT FUNCTION SETUP

FUNCTION	ADAPTATION
Car window initialize	✓
Sliding / Tilting Sunroof Initialize	✓
Battery (1).Register battery change (2).Evaluate battery charge state	✓
Steering Angle	✓
AFS Initialization / Adjustment	✓
Boot lid initialization	✓
Normalization, Longitudinal Seat Adjustment	✓
Delete Transport Mode	✓
Parking Brake	✓
CAS Service Functions	✓
IHKA / IHKR Service Functions	✓
Brake Bleed Routine	✓
Dynamic Drive (ARS System) Service Functions	✓
Electric Steering-Column Adjustment	✓
Solar Rain / Light Fogging Sensor Initialize	✓

Specification

DSC Service Functions	✓
Remote Control / Key	✓
Injector rate adjustment	✓
Particulate filter	✓
Ride level adjustment	✓
Enable seat occupancy mat (US only)	✓
VTG service functions (N55 engine, DOL support only)	✓
Rear seat entertainment	✓

CBS / SERVICE RESET

CONTROL FUNCTION	SERVICE RESET
Engine Oil	✓
Front Brakes	✓
Rear Brakes	✓
Brake Fluid	✓
Vehicle Check	✓

X5-SERIES, E70 2007-

DRIVE SYSTEMS

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
DME N52 / N55 / N62 / N63 / S63 Petrol Engine	✓	✓	✓	✓	✓	
DDE M57 / N57 Diesel Engine	✓	✓	✓	✓	✓	
EGS Auto Transmission	✓	✓	✓	✓	✓	
VTG Transfer Case	✓	✓	✓			
CAS Car Access	✓	✓	✓		✓ (DME/DDE Sync)	
EKPS Fuel-pump	✓	✓	✓			
GWS Gear Selector Switch	✓	✓	✓			
QMVH Lateral-Moment Distribution, Rear Axle	✓	✓	✓			

DME adaptation, functions list: (Some functions are optional because of the default factory setting)

- 1: Idle speed control
- 2: Learning Valvetronic limit positions
- 3: Remove Valvetronic servomotor
- 4: Minimum- stroke adjustment
- 5: Injector rate adjustment

DDE adaptation, functions list: (Some functions are optional because of the default factory setting)

1. Idle speed control
2. Injector rate adjustment
3. Particulate filter
4. Adaptations
5. Balance test
6. Exhaust-gas recirculation

EGS adaptation, functions list: (Some functions are optional because of the default factory setting)

1. Reset learning functions

CHASSIS

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
DSC Dynamic Stability Control	✓	✓	✓			
EHC Electronic Ride-Height Control	✓	✓	✓			
EMF Parking Brake	✓	✓	✓		Initialization	
AL/AFS Active Steering	✓	✓				
EDCSHL Damper Satellite, Rear Left	✓	✓	✓			
EDCSHR Damper Satellite, Rear Reft	✓	✓	✓			
EDCSVL Damper Satellite, Front Left	✓	✓	✓			
EDCSVR Damper Satellite, Front Right	✓	✓	✓			
ICM / LDM Integrated Chassis Control	✓	✓	✓			
RDC Tire Pressure Control	✓	✓	✓			
VDM Vertical Dynamics Management	✓	✓	✓			
ARS Dynamic Drive	✓	✓	✓			

BODY

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
ACSM / MRS / SIM Crash Safety Module Multiple Restraint System Safety Information	✓	✓	✓			
KOMBI Instrument cluster	✓	✓	✓			
PDC Park Distance Control	✓	✓	✓			

Specification

FZD Function Center	✓	✓	✓			
HKL Rear-lid Lift	✓	✓			Initialization	
RLS / AIC Rain / Light Sensor	✓	✓	✓			
FLA High Beam Assist	✓	✓	✓			
FRM / KBM Footwell Module	✓	✓	✓			
RFK Reversing Camera	✓					
SMFA Seat Module, Driver	✓	✓	✓		Initialization	
SMBF Seat Module, Passenger	✓	✓	✓		Initialization	
AHM Trailer Module	✓	✓	✓			
TRSV All Round View Camera	✓	✓	✓			
SINE Siren With Tilt Sensor	✓	✓				

INFORMATION AND COMMUNICATION

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
SZGM / JBE / KGM Safety and Gateway Module Junction-Box Electronics Body Gateway Module	✓	✓	✓			
CDC CD Changer	✓		✓			
DVDC DVD Changer	✓		✓			
CCC-ASK Audio System	✓	✓	✓			
CCC-ANT Antenna Tuner	✓					

CD / RAD / MBO / CCC-BO / CHAMP-BO / M-ASK-BO Control Display / User Interface	✓	✓	✓			
CD-GW / M-ASK-GW / RAD2GW / CCC-GW / CHAMP-GW Gateway	✓	✓	✓			
CID Cnetral Information Display	✓	✓	✓			
CON Controller	✓	✓	✓			
TCU / ULF-SBX Telephone Control Unit / Universal Bluetooth Hands-Free System	✓	✓	✓			
ULF-SBX Interface Box	✓	✓	✓			
AMP Amplifier	✓	✓	✓			
CCC-A Applications	✓	✓	✓			
HUD Head-up Display	✓	✓	✓			
CA Comfort Access	✓	✓				
DAB Digital Tuner	✓					
KHM / KHI Headphones Module Headset Interface	✓					
VSW Video Switch	✓	✓	✓			
FD Rear-Cabin Display	✓					
VM Video Module	✓	✓	✓			
MASK-NAV / CNAV / JNAV / KNAV Navigation System	✓	✓	✓			
SDARS	✓	✓	✓			

Specification

Satellite Tuner						
IBOC Digital Tuner US	✓	✓	✓			
RSE Rear Seat Entertainment	✓	✓	✓			

AIR CONDITIONING

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
IHKA Regulated Heating and A/C	✓	✓	✓			
FKA Rear heater/air conditioning	✓	✓	✓			

EQUIPMENT FUNCTION SETUP

FUNCTION	ADAPTATION
Car window initialize	✓
Sliding / Tilting Sunroof Initialize	✓
Battery (1).Register battery change (2).Evaluate battery charge state	✓
Steering Angle	✓
AFS Initialization / Adjustment	✓
Boot lid initialization	✓
Normalization, Longitudinal Seat Adjustment	✓
Delete Transport Mode	✓
Parking Brake	✓
CAS Service Functions	✓
IHKA / IHKR Service Functions	✓
Brake Bleed Routine	✓
Dynamic Drive (ARS System) Service Functions	✓
Electric Steering-Column Adjustment	✓
Solar Rain / Light Fogging Sensor Initialize	✓
DSC Service Functions	✓

Specification

Enable Seat Occupancy Mat (US only)	
Remote Control / Key	✓
Injector rate adjustment	✓
Particulate filter	✓
Ride level adjustment	✓
VTG service functions (N55 engine, DOL support only)	✓
Rear seat entertainment	✓

CBS / SERVICE RESET

CONTROL FUNCTION	SERVICE RESET
Engine Oil	✓
Front Brakes	✓
Rear Brakes	✓
Brake Fluid	✓
Vehicle Check	✓

X5-SERIES, E53 2006- 2003

DRIVE SYSTEMS

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
DME for M54 / M62 / N62 Petrol Engine	✓	✓	✓	✓	✓	
DDE for M57 Diesel Engine	✓	✓	✓	✓	✓	
EGS / AGS Auto Transmission	✓	✓	✓	✓		
EWS Immobilizer	✓	✓			✓ (DME/DDE Sync)	
GR2 Cruise Control	✓					
VTG Transfer Case	✓	✓	✓		✓	

DME clear adaption / adaption, functions list: (Some functions are optional because of the default factory setting)

1. All adaption

DDE adaption, functions list: (Some functions are optional because of the default factory setting)

1. Idle speed control
2. Injector rate adjustment
3. Balance test
4. Air-mass flow sensor adaptation
5. Quantity mean-value adaptation

VTG service, functions list: (Some functions are optional because of the default factory setting)

1. Oil change
2. Repair
 - (1).Replace classification resistor
 - (2).Replace transfer case actuator
 - (3).Replace transfer box
 - (4).Replace VTG control
 - (5).Enter wear values in new VTG control

CHASSIS

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
ABS / ASC / DSC Automatic Stability Control Dynamic Stability Control	✓	✓	✓		✓	

Specification

EHC Electronic Ride-Height Control	✓	✓	✓			
RDC Tyre Pressure	✓	✓	✓			

DSC, functions list: (Some functions are optional because of the default factory setting)

1. DSC hydraulics bleeding
2. Calibration of DSC sensor
 - (1).Steering-angle sensor
 - (2).Rate of rotation sensor
 - (3).Lateral acceleration sensor

BODY

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
SRS Airbag	✓	✓				
IKE / IKI / KOMBI Instrument cluster	✓	✓	✓			
PDC Park Distance Control	✓	✓	✓			
LCM / LSZ Light Check Module	✓	✓	✓			
ZKE Central Body System	✓	✓	✓			
SZM Switching Center	✓	✓	✓			
XENON, Left Left Xenon	✓	✓				
XENON, Right Right Xenon	✓	✓				
AIC / RLS Rain / Light Sensor	✓	✓			Initialization	
MFL Multi-functional Steering Wheel		✓				
SHD Sunroof	✓	✓	✓			
SM Seat Memory	✓	✓	✓			
BSM Seat Memory, Passenger Side		✓				
CCM Check Control		✓				
FBZV Remote Control for Central Lock		✓				
HKM Trunk Lid Module		✓				
SBE2 Seat Occupation Detection		✓				
SPMBT Mirror Memory, Passenger Side		✓				

Specification

SPMFT Mirror Memory, Driver Side		✓				
STH Additional Heater		✓				
LWS Steering Angle		✓				
ELV Electric Steering		✓				
LRA Headlight Vertical Aim Control	✓	✓	✓			
AHL Adaptive Directinal Headlights	✓	✓	✓			

INFORMATION AND COMMUNICATION

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
RAD Radio	✓	✓	✓			
BIT Basis-Interface Telephone	✓	✓	✓			
BMBT On-Board Monitor	✓					
DSP DSP-booster	✓					
MID Multi-Information Display	✓					
FID Rear Multi-Information Display	✓					
IRIS Integrated Radio Information	✓					
NAV Navigation System	✓					
NAV JAP Navigation System, Japanese	✓		✓			
VIDEO_GT Video Module Graphics Part	✓					
VIDEO_TV / VID Video Module, TV	✓					

Specification

SES Voice Recognition	✓		✓			
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AIR CONDITIONING

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
IHKA / IHKR Regulated Heating and A/C	✓	✓	✓			
FGB Rear Compartment Blower	✓	✓	✓			

EQUIPMENT FUNCTION SETUP

FUNCTION	ADAPTATION
Delete Transport Mode	✓
Solar Rain / Light Fogging Sensor Initialize	✓
VTG service functions	✓

X3-SERIES, E83 2003- 2010

DRIVE SYSTEMS

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
DME for M54 / N46 / N52 Petrol Engine	✓	✓	✓	✓	✓	
DDE for N47 / M47 / M57 Diesel Engine	✓	✓	✓	✓	✓	
EGS / AGS Auto Transmission	✓	✓	✓	✓		
EWS Immobilizer	✓	✓			✓ (DME/DDE Sync)	
GR2 Cruise Control	✓					
VTG Transfer Case	✓	✓	✓		✓	
EKPS Fuel-Pump Control	✓	✓	✓			

DME clear adaption / adaption, functions list: (Some functions are optional because of the default factory setting)

1. All adaption

DDE adaption, functions list: (Some functions are optional because of the default factory setting)

3. Idle speed control
4. Injector rate adjustment
5. Balance test
6. Air-mass flow sensor adaptation
7. Quantity mean-value adaptation

VTG service, functions list: (Some functions are optional because of the default factory setting)

1. Oil change
2. Repair
 - (1).Replace classification resistor
 - (2).Replace transfer case actuator
 - (3).Replace transfer box
 - (4).Replace VTG control
 - (5).Enter wear values in new VTG control

CHASSIS

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
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Specification

ABS / ASC / DSC Automatic Stability Control Dynamic Stability Control	✓	✓	✓			
EHC Electronic Ride-Height Control	✓	✓	✓			
RDC Tyre Pressure	✓	✓	✓			
LWS / LEW Steering Angle Sensor	✓					
SVT Servotronic	✓	✓				

BODY

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
SRS Airbag	✓	✓				
IKE / IKI / KOMBI Instrument cluster	✓	✓	✓			
PDC Park Distance Control	✓	✓	✓			
LCM / LM Light Check Module	✓	✓	✓			
ZKE Central Body System	✓	✓	✓			
SZM Switching Center	✓	✓	✓			
XENON, Left Left Xenon	✓	✓				
XENON, Right Right Xenon	✓	✓				
AIC / RLS Rain / Light Sensor	✓	✓				
MFL Multi-functional Steering Wheel		✓				
SHD Sunroof	✓	✓	✓			

Specification

SM Seat Memory	✓	✓	✓			
SMF Seat Memory, Driver Side		✓				
SMB Seat Memory, Passenger Side		✓				
CCM Check Control		✓				
FBZV Remote Control for Central Lock		✓				
HKM Trunk Lid Module		✓				
SBE2 Seat Occupation Detection		✓				
SPMBT Mirror Memory, Passenger Side		✓				
SPMFT Mirror Memory, Driver Side		✓				
STH Additional Heater		✓				
LWS Steering Angle		✓				
ELV Electric Steering		✓				
LRA Headlight Vertical Aim Control	✓	✓	✓			
AHL Adaptive Directional Headlights	✓	✓	✓			
SBBF Seat occupancy, passenger	✓	✓				

INFORMATION AND COMMUNICATION

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
RAD Radio	✓	✓	✓			
BIT Basis-Interface Telephone	✓	✓	✓			

Specification

BMBT On-Board Monitor	✓					
DSP DSP-booster	✓					
MID Multi-Information Display	✓					
FID Rear Multi-Information Display	✓					
IRIS Integrated Radio Information	✓					
NAV Navigation System	✓					
NAV JAP Navigation System, Japanese	✓		✓			
VIDEO_GT Video Module Graphics Part	✓					
VIDEO_TV / VID Video Module, TV	✓					
SES Voice Recognition	✓		✓			

AIR CONDITIONING

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
IHKA / IHKR Regulated Heating and A/C	✓	✓	✓			
FGB Rear Compartment Blower	✓	✓	✓			

EQUIPMENT FUNCTION SETUP

FUNCTION	ADAPTATION
Delete Transport Mode	✓
VTG service functions	✓
Enable seat occupancy mat (US only)	✓

X1-SERIES, E84 2009 -

DRIVE SYSTEMS

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
DME N46 / N52 / N55 / N20 Petrol Engine	✓	✓	✓	✓	✓	
DDE N47 Diesel Engine	✓	✓	✓	✓	✓	
EGS Auto Transmission	✓	✓	✓	✓	✓	
EKPS Fuel-Pump Control	✓	✓	✓			
CAS Car Access	✓	✓	✓		✓ (DME/DDE Sync)	
VTG Transfer Case	✓	✓	✓			

DME adaptation, functions list: (Some functions are optional because of the default factory setting)

1. Idle speed control
2. Learning Valvetronic limit positions
3. CO Adjustment
4. Consumption Indicator
5. Minimum Stroke Adjustment
6. Injector rate adjustment

DDE adaptation, functions list: (Some functions are optional because of the default factory setting)

1. Injector rate adjustment
2. Particulate filter
3. Adaptations
4. Balance test
5. Exhaust-gas recirculation
6. Idle speed control

EGS adaptation, functions list: (Some functions are optional because of the default factory setting)

1. Reset learning functions

CHASSIS

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
DSC Dynamic Stability Control	✓	✓	✓			

BODY

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
ACSM / MRS / SIM Crash Safety Module / Safety Info	✓	✓				
KOMBI Instrument cluster	✓	✓	✓			
PDC Park Distance Control	✓	✓	✓			
FZD Function Center, Roof	✓	✓	✓			
SMFA Seat Module, Driver	✓	✓	✓			
SMBF Seat Module, Passenger	✓	✓	✓			
ULF-SBX-H Interface Box, High Version	✓	✓	✓			
FRM / KBM Footwell / Body Basic Module	✓	✓	✓			
FLA High Beam Assist	✓	✓	✓			
AHM Trailer Module	✓					
RLS Rain Sensor	✓	✓				

INFORMATION AND COMMUNICATION

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
SZGM / JBE / KGM Safety and Gateway Module Junction-Box Electronics Body Gateway Module	✓	✓	✓			

Specification

CDC CD Changer	✓		✓			
CD / RAD / MBO / CCC-BO / CHAMP-BO / M-ASK-BO Control Display / User Interface	✓	✓	✓			
CD-GW / M-ASK-GW / RAD2GW / CCC-GW / CHAMP-GW Gateway	✓	✓	✓			
CID Cnetral Information Display	✓	✓	✓			
CON Controller	✓	✓	✓			
TCU / ULF Telephone Control Unit / Universal Bluetooth Hands-Free System	✓	✓	✓			
AMP Amplifier	✓	✓	✓			
CA Comfort Access	✓	✓				
DAB Digital Tuner	✓					

AIR CONDITIONING

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
IHKA / IHKR Regulated Heating and A/C	✓	✓	✓			

EQUIPMENT FUNCTION SETUP

FUNCTION	ADAPTATION
Battery (1).Register battery change (2).Evaluate battery charge state	✓
CAS Service Functions	✓
Solar Rain / Light Fogging Sensor Initialize	✓
Injector rate adjustment	✓

Particulate filter	✓
Car window initialise	✓

CBS / SERVICE RESET

CONTROL FUNCTION	SERVICE RESET
Engine Oil	✓
Spark Plugs (if fitted)	✓
Front Brakes	✓
Rear Brakes	✓
Brake Fluid	✓
Coolant (if fitted)	✓
Diesel Particle Filter (Diesel Engine Only, if fitted)	✓
Setting Time	✓
Brake Fluid	✓
Microfilter (if fitted)	✓
Vehicle Inspection	✓
Exhaust Emission Inspection	✓
Vehicle Check	✓
VTG service functions (DOL support only)	✓

Z4-SERIES, E89 2009 -

DRIVE SYSTEMS

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
DME N20 / N52 / N54 / N55 Petrol Engine	✓	✓	✓	✓	✓	
EGS Auto Transmission	✓	✓	✓	✓	✓	
GWS Gear Selector Switch	✓	✓	✓			
EKPS Fuel-Pump Control	✓	✓	✓			
DWA Anti-Theft Alarm	✓	✓	✓			
CAS Car Access	✓	✓	✓		✓ (DME/DDE Sync)	

DME adaptation, functions list: (Some functions are optional because of the default factory setting)

1. Idle speed control
2. Learning Valvetronic limit positions
3. CO Adjustment
4. Consumption Indicator
5. Minimum Stroke Adjustment
6. Injector rate adjustment

EGS adaptation, functions list: (Some functions are optional because of the default factory setting)

1. Reset learning functions

CHASSIS

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
DSC Dynamic Stability Control	✓	✓	✓			
RDC Tire Pressure	✓	✓	✓			
EPS Electric Power Steering	✓	✓	✓			
EMF Parking Brake	✓	✓	✓			
EDC	✓	✓	✓			

Damper Control						
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BODY

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
ACSM / MRS / SIM Crash Safety Module Multiple Restraint System Safety Information	✓	✓	✓			
KOMBI Instrument cluster	✓	✓	✓			
PDC Park Distance Control	✓	✓	✓			
SMFA Seat Module, Driver	✓	✓	✓		Initialization	
SMBF Seat Module, Passenger	✓	✓	✓		Initialization	
CVM / CTM Convertible Top	✓	✓				
FRM / KBM Footwell Module	✓	✓	✓			
SZGM / JBE / KGM Safety and Gateway Module Junction-box Electronics Body Gateway Module	✓	✓			Initialization	
FLA High Beam Assist	✓	✓	✓			
RLS Rain Sensor	✓	✓				
SINE Siren with Tilt Sensor	✓	✓				

INFORMATION AND COMMUNICATION

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
CDC CD Changer	✓		✓			
DVDC DVD Changer	✓		✓			

Specification

CD / RAD / MBO / CCC-BO / CHAMP-BO / M-ASK-BO Control Display / User Interface	✓	✓	✓			
CD-GW / M-ASK-GW / RAD2GW / CCC-GW / CHAMP-GW Gateway	✓	✓	✓			
CID Cnetral Information Display	✓	✓	✓			
CON Controller	✓	✓	✓			
TCU / ULF Telephone Control Unit / Universal Bluetooth Hands-Free System	✓	✓	✓			
AMP Amplifier	✓	✓	✓			
CA Comfort Access	✓	✓				
DAB Digital Tuner	✓					
VM Video Module	✓	✓	✓			
MASK-NAV / CNAV / JNAV / KNAV Navigation System	✓	✓	✓			
ULF-SBX-H Interface box, High Version	✓	✓	✓			

AIR CONDITIONING

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
IHKA / IHKR Regulated Heating and A/C	✓	✓	✓			

EQUIPMENT FUNCTION SETUP

FUNCTION	ADAPTATION
Battery (1).Register battery change (2).Evaluate battery charge state	✓
Delete Transport Mode	✓
Parking Brake	✓
CAS Service Functions	✓
Solar Rain / Light Fogging Sensor Initialize	✓
Remote Control / Key	✓
Injector rate adjustment	✓

CBS / SERVICE RESET

CONTROL FUNCTION	SERVICE RESET
Engine Oil	✓
Spark Plugs (if fitted)	✓
Front Brakes	✓
Rear Brakes	✓
Brake Fluid	✓
Coolant (if fitted)	✓
Diesel Particle Filter (Diesel Engine Only, if fitted)	✓
Setting Time	✓
Brake Fluid	✓
Microfilter (if fitted)	✓
Vehicle Inspection	✓
Exhaust Emission Inspection	✓
Vehicle Check	✓

Z4-SERIES, E85(roadster) / E86 (Coupé) 2002 - 2011

DRIVE SYSTEMS

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
DME N46 / N52 / M54 / S54 Petrol Engine	✓	✓	✓	✓	✓	
EGS Auto Transmission	✓	✓	✓	✓		
EWS Immobilizer	✓	✓			✓ (DME/DDE Sync)	

DME adaptation, functions list: (Some functions are optional because of the default factory setting)

1. Idle speed control
2. Learning Valvetronic limit positions

CHASSIS

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
ABS / ASC / DSC Automatic Stability Control Dynamic Stability Control	✓	✓	✓			

BODY

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
SBSL SRS / Airbag, B-Pillar Left	✓	✓				
SBSR SRS / Airbag, B-Pillar Right	✓	✓				
STVL SRS / Airbag, Front Left Door	✓	✓				
STVR SRS / Airbag, Front Right Door	✓	✓				
ACSM / MRS / SIM Crash Safety Module Multiple Restraint System Safety Information	✓	✓	✓			
IKE / IKI / KOMBI Instrument cluster	✓	✓	✓			
LCM / LSZ	✓	✓	✓			

Specification

Light Check Module						
ZKE Central Body System	✓	✓	✓			
CVM / CTM Convertible Top	✓	✓				

INFORMATION AND COMMUNICATION

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
SIM Safety & Information	✓	✓	✓			

AIR CONDITIONING

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
IHKA / IHKR Regulated Heating and A/C	✓	✓	✓			

EQUIPMENT FUNCTION SETUP

FUNCTION	ADAPTATION
Delete Transport Mode	✓

Z3-SERIES, E36/4 1996 - 2002

DRIVE SYSTEMS

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
DME Petrol Engine	✓	✓	✓	✓	✓	
EGS Auto Transmission	✓	✓	✓	✓		
EWS Immobilizer	✓	✓			✓ (DME/DDE Sync)	
GR2 Cruise Control	✓					
TOENS Thermal Oil Level Sensor	✓					

DME clear adaption / adaption, functions list: (Some functions are optional because of the default factory setting)

1. All adaption

CHASSIS

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
ABS / ASC / DSC Automatic Stability Control Dynamic Stability Control	✓	✓	✓			

BODY

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
SRS Airbag	✓	✓				
IKE / IKI / KOMBI Instrument cluster	✓	✓	✓			
ZKE Central Body System	✓	✓	✓			
CVM Convertible Top	✓	✓				
PDC Park Distance	✓	✓	✓			
LWS Steering Angle	✓					

Specification

LCM / LSZ Light Check Module	✓	✓	✓			
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INFORMATION AND COMMUNICATION

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
RAD Radio	✓	✓	✓			
BMBT On-Board Monitor	✓					
MID Multi-Information Display	✓					
IRIS Integrated Radio Information	✓					

AIR CONDITIONING

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
IHKA / IHKR Regulated Heating and A/C	✓	✓	✓			

Z8-SERIES, E52 1999- 2003

DRIVE SYSTEMS

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
DME for S62 Petrol Engine	✓	✓	✓	✓	✓	
EGS Auto Transmission	✓	✓	✓	✓		
EWS Immobilizer	✓	✓			✓ (DME/DDE Sync)	

DME clear adaption / adaption, functions list: (Some functions are optional because of the default factory setting)

1. All adaption

CHASSIS

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
ABS / ASC / DSC Automatic Stability Control Dynamic Stability Control	✓	✓	✓			
ELV Electronic Steering	✓					
RDC Tyre Pressure	✓	✓	✓			
LWS / LEW Steering Angle Sensor	✓					

BODY

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
SRS Airbag	✓	✓				
IKE / IKI / KOMBI Instrument cluster	✓	✓	✓			
PDC Park Distance Control	✓	✓	✓			
LCM / LM Light Check Module	✓	✓	✓			
ZKE Central Body System	✓	✓	✓			

Specification

CVM / CTM Convertible Top	✓	✓	✓			
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INFORMATION AND COMMUNICATION

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
RAD Radio	✓	✓	✓			
BIT Basis-Interface Telephone	✓	✓	✓			
BMBT On-Board Monitor	✓					
DSP DSP-booster	✓					
NAV Navigation System	✓					
NAV JAP Navigation System, Japanese	✓		✓			

AIR CONDITIONING

ECU	READ/CLEAR CODE	DATA STREAM	ACTIVATION	CLEAR ADAPTION	ADAPTATION / SERVICE	NOTES
IHKA / IHKR Regulated Heating and A/C	✓	✓	✓			

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