

BMW V12.2

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1 Vehicle models covered

Model	Type	Year
1 Series_E87	116i,118i,120d,118d,123d	2004-2010
3 Series_E30	316i,318i,318is,320i,320is,323i,325,M3,333i	1988-1990
3 Series_E36(With Z3)	316g,316i,318i,318is,318tds,320i,323i,323ti,325tds,328i,M3,	1991-1998
3 Series_E46		1999-2006
3 Series_E90/E91/E92/E93	318i,320i,320si,320d,323i,325i,330i,330xi,335i,335xi,330d	2005-2009
5 Series_E28	518i,520i,520d,525i,528i,535i,525d,M5	before 1988
5 Series_E34	518i,520i,525i,525d,528i,530i,535i,540i,M5	1988-1996
5 Series_E39	520i,523i,525i,528i,530i,535i,540i,M5,520d,525d,530d,530d,	1996-2004
5 Series_E60/E61	520d,520i,523i,525d,525i,525xd,530d,530i,535i,M5,	After 2004
5 Series_F10/F11/18	520d	after 2008
5GT Series_F07	5GT	after 2008
6 Series_E24	630i,645Ci,650i,	Before 1989
6 Series_E63/E64	630Ci/630i,645Ci,650i,M6	After 2003
7 Series_E23	725i,728i,728i,730i,732i,733i,735i,745i	1977–1986
7 Series_E32	730i,735i,740i,750i	1987–1994
7 Series_E38	725tds,728i/728iL,730i/730iL,735i/735iL,735i/735iL,730d,740i/740iL,750iL	1994–2001
7 Series_E65/E66/E67/E68	730d,730i,730Ld,730Li,735i,735Li,740i,740Li,745i,745Li,750i,750Li,760i,760Li	2001–2008
7 Series_F01/F02	730i	after 2008
8 Series_E31	850i,850Ci,850CSi	1989–1999
X Series_X3-E83	X3 2.0i,X3 2.5i,X3 2.5si,X3 3.0i,X3 2.0d	After 2003
X Series_X5-E53	3.0i,4.4i,4.6is,4.8is,3.0d	After 1999
X Series_X5-E70	3.0si,4.8i	After 2006
X Series_X6-E71	3.0si,3.0sd	After 2007
Z Series_Z1-E30	Z3_2.3,Z3_3.0,Z3_2.5	1989-1991
Z Series_Z3-E36	Z3_2.3,Z3_3.0,Z3_2.5	1996-2002
Z Series_Z4-E85	Z4_2.2i,Z4_2.5i,Z4_3.0i	After 2002
Z Series_Z4-E89	Z4_3.0i	2009
Z Series_Z8-E52	Z8_S62	2000-2003
MINI_R50/R52/R53	MINI_ONE,COOPER,COOPER_S	2001-2006
MINI_R55/R56/R57	MINI_ONE,COOPER,COOPER_S,COOPER_D	2007-2010

2 Vehicle systems covered

System	DTC	Data List	Active Test
ABS/ASC/DSC (Dynamic Stability Control)	X	X	X
ACC Active cruise control	X	X	X
ACC/ACC2 Active Cruise Control	X		
ACSM Crash Safety Module	X	X	X
ACSM/MRS Crash Safety Module	X	X	
AHL Adaptive directional headlights	X	X	X
AHM Trailer module	X	X	X
AL active front steering (AFS70)	X	X	
AL active steering	X	X	X
ALBBF Active backrest width,front passenger	X	X	
ALBFA Active backrest width,driver	X	X	
AMP Amplifier	X	X	X
AMPH Hi-Fi amplifier	X	X	X
AMPT Top Hi-Fi amplifier	X	X	X
ANT Antenna/antenna tuner	X	X	X
ARS Dynamic Drive	X	X	X
ARS Dynamic Drive 2	X	X	X
ASK Audio system controller	X	X	X
BM On-board monitor			
BM/MIR (On-board monitor/Multi-Information Radio)	X	X	X
BZM Control center, center console	X	X	X
CA Comfort Access	X	X	X
CAN / byteflight	X		
CAN communication analysis	X		
CAS Car Access System	X	X	X
CCC-A Applications	X	X	X
CCC-ANT Aerial tuner	X	X	X
CCC-ASK Audio system controller	X	X	X
CCC-BO User interface	X	X	X
CCC-GW Gateway	X	X	X
CD Control Display	X		X
CD-GW Control Display(Gateway)	X	X	X
CDC CD Changer	X	X	X
CEM Clean Energy Module	X	X	
CHAMP-BO User interface	X	X	X
CHAMP-GW Gateway	X	X	X
CIC User interface	X	X	X
CIC-GW Gateway	X	X	X
CIC/CHAMP Car headunit column	X	X	X
CID Central Information Display	X	X	X
CIM Chassis integration Module	X	X	X
CON Controller	X	X	X
CVM Convertible top module	X	X	X
DAB Digital tuner	X	X	X
DDE Diesel Electronics	X	X	X
DME Digital Engine/Gearbox Electronics 2	X	X	X
DME Digital Motor Electronics	X	X	X
DME Motor Electronics	X	X	X

System	DTC	Data List	Active Test
DME/DDE (Motor/Diesel Electronics)	X	X	X
DME/DDE Motor Electronics	X	X	X
DME2/DME2 Digital motor electronics 2	X	X	X
DSC Dynamic Stability Control	X	X	X
DSC(Bosch)Dynamic Stability Control	X	X	X
DSP Digital Sound Processor			
DVD CD Changer	X		X
DVD-C DVD changer	X	X	X
DVDC DVD Changer	X	X	X
DWA antitheft alarm system	X	X	X
EDC Damper Control	X	X	X
EDC Electronic Damper Control	X	X	X
EDCSHL Damper satellite, rear left	X	X	X
EDCSHR Damper satellite, rear right	X	X	X
EDCSVL Damper satellite, front left	X	X	X
EDCSVR Damper satellite, front right	X	X	X
EGS 6HPTU transmission control	X	X	X
EGS transmission control	X	X	X
EGS transmission management	X	X	X
EHC Electronic Height Control	X	X	X
EHC Electronic Ride-Height Control	X	X	X
EHC Ride level(Height) Control	X	X	X
EHC/EHC2 (Electronic ride-level control)	X	X	X
EHPS Electro-hydraulic steering assistance	X	X	X
EKP Fuel pump	X	X	X
EKPS Fuel pump	X	X	X
EKPS Fuel-pump control	X	X	X
EMF Parking brake	X	X	X
EML Electronic engine-power control	X		
EPS Electronic Power Steering	X	X	X
EWS Electronic immobilizer	X	X	
EWS Vehicle immobilizer	X	X	
FBI Flexible Bus Interface	X		X
FBZM Rear compartment,controlcenter,center console	X	X	X
FCON Rear compartment controller	X	X	X
FD Rear-cabin display	X	X	
FD Rear-compartment display	X	X	X
FD2 Rear-compartment display2	X	X	X
FID Read-compartment information display	X		
FKA Rear heater/air conditioning	X	X	X
FKA Rear-cabin automatic A/C	X	X	X
FKA Rear-compartment air conditioning	X	X	X
FLA High Beam Assist	X	X	X
FRM Footwell module	X	X	X
FRM/FRM2 Footwell module	X	X	X
FRM2 Footwell module 2	X	X	X
FZD Function centre,roof	X	X	X
GR Cruise control	X		
GWS Gear selector switch	X	X	X
HKL Rear-lid lift	X	X	X

System	DTC	Data List	Active Test
HKL Rear-lid module	X	X	X
HUD Head-Up Display	X	X	X
ICM Integrated Chassis Management	X	X	X
ICM Integronic Power Steering	X	X	X
IHKA Heater/automatic A/C control	X	X	X
IHKA Integrated automatic heating/air conditioning	X	X	X
IHKA Integrated heating /air conditioning	X	X	X
IHKA/IHKR Integrated heating/air conditioning	X	X	X
IHKS Integrated heating/air-conditioning control	X	X	X
IHS Heater control	X	X	X
INSTR Instrumint cluster	X	X	X
JBE Junction-box electronics	X	X	X
JBE2 Junction Box electronics 2	X	X	X
JNAV Navigation system,Japan	X	X	X
KBM Body basic module	X	X	X
KGM Body Gateway Module	X	X	X
KHI Headphones interface	X	X	X
KNAV Navigation system,Korea	X	X	X
KOM Instrument cluster	X	X	X
KOM/IKE/IKI/INSTR(Instrument cluster)	X	X	X
KOMBI2 additional Instruments			
LEW Steering–angle sensor	X	X	
LEW/LWS (Steering angle sensor)	X	X	
LM Lights Module	X	X	X
LM Lights module 2	X	X	X
LM2 Lights module 2	X	X	X
LRA Automatic headlight vertical aim control	X		
LRA Headlight vertical aim control	X	X	X
LRR Long Range Radar	X		
LSZ/LCM (Lights switching center)	X	X	X
M-ASK-BO User interface	X	X	X
M-ASK-GW Gateway	X	X	X
M-ASK-NAV Navigation system	X	X	X
MFL Multifunction steering wheel I	X	X	
MID Multi Information Display	X		
MOST system analysis	X		
MPM Micro-power module	X	X	X
MRS Multiple Restraint System	X	X	
MRS/AirBag (Multiple Restraint System)	X		
MRS/AirBag(Multiple Restraint System)	X		
MRS/AirBag/SIM (Multiple Restraint System)	X	X	X
NAV Navigation computer	X	X	
NAV Navigation computer, Europe	X	X	
NAV Navigation system	X	X	X
NVE Night Vision Electronics	X	X	X
NVK Night vision camera	X	X	X
PDC Park Distance Control	X	X	X
PM Power module	X	X	X
QMVHL Lateral-moment distribution,rear axle	X	X	X
RAD Radio	X	X	X

System	DTC	Data List	Active Test
RAD2-BO User interface	X	X	X
RAD2-GW Gateway	X	X	
RAD2-GW Gateway	X	X	X
RDC Tire pressure control	X	X	
RDC/RDW Tyre pressure check	X	X	
RFK Reversing camera	X	X	X
RLS Rain/Light Sensor	X	X	
RLS/AIC (Rain/Light Sensor/Automatic interval Control)	X	X	
RLSS Rain/light solar sensor	X	X	X
RLSS Solar Rain/Light Sensor	X	X	X
RSE Rear Seat Entertainment	X	X	X
RSE Rear seat entertainment	X	X	X
SASL Satellite,A-pillar,left	X	X	
SASR Satellite,A-pillar,right	X	X	
SBSL Satellite,B-pillar,left	X	X	
SBSR Satellite,B-pillar,right	X	X	
SBSR Satellite,B-pillar,right	X	X	X
SDARS Satellite tuner (US)	X	X	X
SEC1 Supplementary control unit 1	X		
SEC2 Supplementary control unit 2	X		
SES Language-input system	X		X
SFZ Satellite vehicle center	X	X	
SG-FD Control unit,rear-compartment display	X		X
SG-FD-GW Control unit,rear-compartment display(gateway)	X	X	X
SGM-SIM Safety and Gateway Module(SIM)	X	X	X
SGM-ZGM Safety and Gateway Module(ZGM)	X		
SHD Slide/tilt sunroof 2	X	X	X
SHD Sliding/tilting sunroof	X	X	X
SHD Sliding/tilting sunroof module	X	X	X
SHD Sliding/titing sunroof	X		
SHZH Independent/auxiliary heater	X	X	X
SIM Safety and information module	X	X	X
SINE Siren and tilt sensor	X	X	
SINE Siren with tilt sensor	X	X	X
SMBF Seat module,passenger	X	X	X
SMBFH Seat module,passenger'sside,rear	X	X	X
SMF/SM/SLM (Seat memory,driver)	X	X	X
SMFA Seat module,driver	X	X	X
SMFAH Seat module,driver'sside,rear	X	X	X
SPMBT Mirror memory,passenger	X	X	X
SPMFT Mirror memory,driver	X	X	X
SSBF Satellite,seat,passenger	X	X	
SSFA Satellite,seat,driver	X	X	
SSH Satellite,seat,rear	X	X	X
STH park heating			
STVL Satellite,door,front left	X	X	
STVR Satellite,door,front right	X	X	
SVS Language processing system	X		X
SVT Servotronic			
SZL Switch center,steering column	X	X	X

System	DTC	Data List	Active Test
SZM Switching center,center console	X	X	X
Short test	X		
TCU Telematic Control Unit	X	X	X
TCU/ULF/TEL/BIT (Telematic Control unit)	X		
TEL Telephone	X		X
TMBF Door module,front passenger	X	X	X
TMBFH Door module,passenger'sside,rear	X	X	
TMBFT Door module,passenger door	X	X	
TMFA Door module,driver	X	X	X
TMFAH Door module,driver'sside,rear	X	X	
TMFAT Door module,driver's door	X	X	
TR SVC All round view camera	X	X	X
ULF Universal charging and hands-free facility	X	X	X
ULF-SBX-H Interface box High	X	X	X
VDM Vertical Dynamics Management	X	X	X
VID Video module	X		
VM Video Module	X	X	X
VSW Video switch	X	X	X
VTC Valvetronic		X	
VTC2 Valvetronic 2		X	
VTG Transfer case	X	X	X
WIM Wiper module	X	X	X
ZGM Central Gateway Module	X	X	X
ZKE Central body electronics BC 1	X	X	X
ZKE/GM (Central body electronics/GM base module)	X	X	X

3 Vehicle Special Function covered

Function	Type	Special Function
ALIGNMENT EWS-DME	ALIGNMENT EWS-DME	ALIGNMENT EWS-DME
Service functions	Body\FZD function center, roof	Rain/light sensor initialisation
Service functions	Body\FZD function center, roof	Sunroof initialisation
Service functions	Body\IHKA Integrated automatic heating/air conditioning	Run-in protection for A/C compressor
Service functions	Body\Instrument cluster	Reset service interval indicator
Service functions	Body\JBE Junction-box electronics	Start windows initialisation
Service functions	Body\Light Check Module	Read out operating data
Service functions	Body\PM Power module	Register battery replacement
Service functions	Body\Transport mode	Delete transport mode
Service functions	Car key memory	Car key memory
Service functions	Car/Key memory	A/C on with ignition on key 1
Service functions	Car/Key memory	A/C on with ignition on key 2
Service functions	Car/Key memory	A/C on with ignition on key 3
Service functions	Car/Key memory	A/C on with ignition on key 4
Service functions	Car/Key memory	Arm acoustically
Service functions	Car/Key memory	Arm acoustically doors/lids closed
Service functions	Car/Key memory	Arm visually
Service functions	Car/Key memory	Arm visually doors/lids closed

Function	Type	Special Function
Service functions	Car/Key memory	Arming/disarming
Service functions	Car/Key memory	Auto fan control on with ignition on Key 1
Service functions	Car/Key memory	Auto fan control on with ignition on Key 2
Service functions	Car/Key memory	Auto fan control on with ignition on Key 3
Service functions	Car/Key memory	Auto fan control on with ignition on Key 4
Service functions	Car/Key memory	Automatic driving lights control
Service functions	Car/Key memory	Automatic locking\car
Service functions	Car/Key memory	Automatic locking\key 1
Service functions	Car/Key memory	Automatic locking\key 2
Service functions	Car/Key memory	Automatic locking\key 3
Service functions	Car/Key memory	Automatic locking\key 4
Service functions	Car/Key memory	Compartment sensor
Service functions	Car/Key memory	Convenient closing RC
Service functions	Car/Key memory	Convenient opening RC
Service functions	Car/Key memory	Correction set temperature
Service functions	Car/Key memory	Daytime driving lights (ECE)
Service functions	Car/Key memory	Daytime driving lights (US)
Service functions	Car/Key memory	Disarm Acoustically
Service functions	Car/Key memory	Disarm visually
Service functions	Car/Key memory	Driver's window\One touch close
Service functions	Car/Key memory	Driver's window\One touch open
Service functions	Car/Key memory	Easy entry steering wheel\Longitudinal
Service functions	Car/Key memory	Easy entry steering wheel\Tilting
Service functions	Car/Key memory	Entrance aid,tilt direction
Service functions	Car/Key memory	Home lightsduration
Service functions	Car/Key memory	Key memory of heat/AC/ventilation
Service functions	Car/Key memory	Mirror folding
Service functions	Car/Key memory	Passenger's window\One touch close
Service functions	Car/Key memory	Passenger's window\One touch open
Service functions	Car/Key memory	Rear window driver's side\One touch close
Service functions	Car/Key memory	Rear window driver's side\One touch open
Service functions	Car/Key memory	Rear window passenger's side\One touch close
Service functions	Car/Key memory	Rear window passenger's side\One touch open
Service functions	Car/Key memory	Recirculated air memory
Service functions	Car/Key memory	Relock 2 minutes after unlocking if doors unopened\key 1
Service functions	Car/Key memory	Relock 2 minutes after unlocking if doors unopened\key 2
Service functions	Car/Key memory	Relock 2 minutes after unlocking if doors unopened\key 3
Service functions	Car/Key memory	Relock 2 minutes after unlocking if doors unopened\key 4
Service functions	Car/Key memory	Seat/memory position
Service functions	Car/Key memory	Selective central locking/convenient access\car
Service functions	Car/Key memory	Selective central locking/convenient access\key 1

Function	Type	Special Function
Service functions	Car/Key memory	Selective central locking/convenient access\key 2
Service functions	Car/Key memory	Selective central locking/convenient access\key 3
Service functions	Car/Key memory	Selective central locking/convenient access\key 4
Service functions	Car/Key memory	Set fan power
Service functions	Car/Key memory	Soft on/off
Service functions	Car/Key memory	Tilt sensor
Service functions	Car/Key memory	Unlock, on removal of RC
Service functions	Car/Key memory	Volume level
Service functions	Chassis\Dynamic Drive	Learn sensor values
Service functions	Chassis\Dynamic Drive	Start startup
Service functions	Chassis\EMF Parking brake	Initialisation
Service functions	Chassis\EMF Parking brake\	Renewal of an actuator on brake caliper
Service functions	Chassis\EMF Parking brake\	Renewal of the brake caliper or brake pads
Service functions	Chassis\SZL Switch center, steering column	Steering angle sensor adjustment
Service functions	Chassis\Wheel-slip control system	Adjust transversal-acceleration sensor
Service functions	Chassis\Wheel-slip control system	Adjustment, steering-angle sensor
Service functions	Chassis\Wheel-slip control system	Bleed Routine
Service functions	Chassis\Wheel-slip control system	Bleeding procedure
Service functions	Chassis\Wheel-slip control system	Bleeding, DSC hydraulics
Service functions	Chassis\Wheel-slip control system	DSC unit adjustment
Service functions	Chassis\Wheel-slip control system	Lateral acceleration sensor adjustment
Service functions	Chassis\Wheel-slip control system	Longitudinal acceleration sensor adjustment
Service functions	Chassis\Wheel-slip control system	Longitudinal acceleration sensor adjustment
Service functions	Chassis\Wheel-slip control system	Mix-up checks, brake lines
Service functions	Digital Motor Electronics	CO adjustment
Service functions	Digital Motor Electronics	Clear adaptations
Service functions	Drive\CAS Car Access System	CAS reset
Service functions	Drive\CAS Car Access System	ELV steering lock fault counter reset
Service functions	Drive\CAS Car Access System	Enable/Disable key
Service functions	Drive\CAS Car Access System	Key number
Service functions	Drive\CAS Car Access System	Reset starter interlock
Service functions	Drive\Diesel Electronics	DDE-CAS Adjustment
Service functions	Drive\Diesel Electronics	Injector rate matching
Service functions	Drive\Diesel Electronics	Regeneration Particular Filter
Service functions	Drive\Diesel Electronics	Replacement particular filter
Service functions	Drive\Digital Motor Electronics	CO adjustment
Service functions	Drive\Digital Motor Electronics	Clear adaptations
Service functions	Drive\Digital Motor Electronics	DME-CAS Adjustment
Service functions	Drive\Digital Motor Electronics	Idle speed Adjustment
Service functions	Drive\Digital Motor Electronics	Learning Valvetronic limit positions
Service functions	Drive\EGS transmission control	Clear adaptations
Service functions	Drive\EGS transmission control	Disable/enable key
Service functions	Drive\Electronic car immobilisation system	Clear adaptations
Service functions	Drive\Electronic car immobilisation	Disable/enable key

Function	Type	Special Function
	system	
Service functions	Driver\CAS Car access system	CAS_DME_DDE_Alignment
Service functions	EGS transmission control	Clear adaptations
Service functions	EGS transmission control	Disable/enable key
Service functions	Electronic car immobilisation system	Clear adaptations
Service functions	Initialise power windows	Initialise power windows
Service functions	Instrument cluster	Reset service interval indicator
Service functions	Light Check Module	Read out operating data
Service functions	Maintenance\CBS reset	12 Vehicle check-linked
Service functions	Maintenance\CBS reset	7 Coolant
Service functions	Maintenance\CBS reset	Brake fluid
Service functions	Maintenance\CBS reset	Diesel filter
Service functions	Maintenance\CBS reset	Engine oil
Service functions	Maintenance\CBS reset	Exhaust emission inspection:
Service functions	Maintenance\CBS reset	Front brake
Service functions	Maintenance\CBS reset	Microfilter
Service functions	Maintenance\CBS reset	Rear brake
Service functions	Maintenance\CBS reset	Spark plugs
Service functions	Maintenance\CBS reset	Vehicle check
Service functions	Maintenance\CBS reset	Vehicle inspection:
Service functions	Maintenance>Delete transport mode	Delete transport mode
Service functions	PM Power module	Display history of battery replacement
Service functions	PM Power module	Register battery replacement
Service functions	Wheel-slip control system	Adjustment,steering-angle sensor
ZCS/FA CODING	E31	Display coding code
ZCS/FA CODING	E32	Display coding code
ZCS/FA CODING	E34	Display coding code
ZCS/FA CODING	E36(With Z3)	Display coding code
ZCS/FA CODING	E38	Display coding code
ZCS/FA CODING	E39	Display coding code
ZCS/FA CODING	E46	Display coding code
ZCS/FA CODING	X5-E53	Display coding code