

## *Autologic Technical Specifications*



# BMW

## 1. BMW PRODUCT DESCRIPTION

The *Autologic* diagnostic tool for BMW vehicles is without doubt the most comprehensive tool to be made available to independent BMW specialists.

Full dealer-level capabilities that covers:

- 1 Series: E81 / E82 / E87 / E88
- 3 Series: E90 / E91 / E92 / E93 / E46 / E36
- 5 Series: F10 / F11 / E60 / E61 / E39 / E34
- 5 GT : F07
- 6 Series: E63 / E64
- 7 Series: F01 / F02 / F03 / E65 / E66 //E67 / E68 / E38 / E32
- 8 Series: E31
- X Series: X6 ( E71 / E72) X5 ( E70 / E53) X3 (E83) X1 (E84)
- Z Series: Z4 (E89 / E86 / E85) Z3 (E36/7/8) Z8 (E52)
- M Series: M3/M5/M6 / X5 M / X6 M / Z4 M / Z3 M

*Autologic* for BMW is unique in offering:

- CIP (Coding Individualisation & programming)
- Flash Programming
- Dealer level ECU Software Coverage
- ECU Trial Substitution
- Quick Test & Quick Clear
- Fault codes timeline report
- CBS: Condition Based Service reset and error correction
- Retrofitting of BMW accessories and extras
- Car/Key Memory Function for personalising vehicle
- Pre – Delivery Check
- Transport Mode

Furthermore:

- ADAPTATION and ADJUSTMENT procedures for DRIVE / CHASSIS / BODY systems
- FAULT RECTIFICATION and TEST PROCEDURES
- SERVICE FUNCTIONS
- Full component activation
- All dynamic data
- Engine and immobiliser alignment
- And More

## 2. DIAGNOSTIC CAPABILITIES

### DRIVE SYSTEMS

- DIGITAL MOTOR\DIESEL ELECTRONICS (DME\DDE)
- ELECTRICAL-MACHINE ELECTRONICS (EME)
- TRANSMISSION MANAGEMENT (EGS/SMG)
- TRANSFER CASE (VTG)
- GEAR SELECTOR SWITCH (GWS)
- ELECTRONIC FUEL-PUMP CONTROL (EKPS)
- VALVETRONIC (VTC)
- ELECTRONIC THROTTLE CONTROL (EML)
- VARIABLE CAMSHAFT CONTROL (VNC)
- SERVOTRONIC (SVT)
- CAR ACCESS SYSTEM (CAS)
- ELECTRONIC IMMOBILISER (EWS)
- LATERAL-MOMENT DISTRIBUTION REAR AXLE (QMVH)
- FORCE FEEDBACK PADDLE (FFP)
- ACCUMULATOR-MANAGEMENT ELECTRONICS (SME)
- LEFT ELECTRIC-MOTOR REEL (EMALI)
- RIGHT ELECTRIC-MOTOR REEL (EMARE)
- SELECTIVE CATALYTIC REDUCTION (SCR)

### CHASSIS SYSTEMS

- DYNAMIC STABILITY CONTROL (ABS/ASC/DSC)
- ANTI-LOCK BRAKING SYSTEM (ABS)
- INTEGRATED CHASSIS MANAGEMENT (ICM)
- LONGITUDINAL DYNAMICS MANAGEMENT (LDM)
- ACTIVE STEERING (AL)
- TYRE PRESSURE CONTROL (RDC)

- ACTIVE CRUISE CONTROL (ACC)
- CRUISE CONTROL (GR2)
- DYNAMIC DRIVE (ARS)
- LANE CHANGE WARNING (SWW)
- PARKING BRAKE (EMF)
- ELECTRONIC POWER STEERING (EPS)
- ELECTRONIC RIDE-HEIGHT CONTROL (EHC)
- ELECTRONIC DAMPER CONTROL (EDC)
- VERTICAL DYNAMICS MANAGEMENT (VDM)
- CHASSIS INTEGRATION MODULE (CIM)
- DAMPER SATELLITE, FRONT LEFT (EDCSVL)
- DAMPER SATELLITE, FRONT RIGHT (EDCSVR)
- DAMPER SATELLITE, REAR LEFT (EDCSHL)
- DAMPER SATELLITE, REAR RIGHT (EDCSHR)
- STEERING ANGLE SENSOR (LEW)
- REAR AXLE KINEMATICS (AHK)
- REAR-AXLE SLIP-ANGLE CONTROL (HSR)
- CLOSED LOOP CONTROLLED DIFFERENTIAL LOCK AWD (GSA)

## SAFETY SYSTEMS

- AIRBAG (AB)
- CRASH SAFETY MODULE (ACSM)
- MULTIPLE RESTRAINT SYSTEM (MRS)
- SAFETY AND GATEWAY MODULE SIM (SGM-SIM)
- SAFETY AND GATEWAY MODULE ZGM (SGM-ZGM)
- SATELLITE A-PILLAR, LEFT (SASL)
- SATELLITE A-PILLAR, RIGHT (SASR)
- SATELLITE B-PILLAR LEFT (SBSL)
- SATELLITE B-PILLAR RIGHT (SBSR)

- SATELLITE VEHICLE CENTRE (SFZ)
- SATELLITE, DOOR, FRONT LEFT (STVL)
- SATELLITE, DOOR, FRONT RIGHT (STVR)
- SATELLITE, SEAT, DRIVER (SSFA)
- SATELLITE, SEAT, PASSENGER (SSBF)
- SATELLITE, SEAT, REAR (SSH)
- SWITCH CENTRE, STEERING COLUMN (SZL)

## LIGHTS

- LIGHT MODULE (LM)
- FOOTWELL MODULE (FRM)
- LIGHT CHECK MODULE (LCM)
- LIGHTS SWITCHING CENTRE (LSZ)
- ADAPTIVE DIRECTIONAL HEADLIGHTS (AHL)
- RAIN\LIGHT SENSOR (RLS)
- HIGH BEAM ASSIST (FLA)
- XENON LIGHTS (XEN)
- AUTOMATIC HEADLIGHT VERTICAL AIM CONTROL (LRA)

## SEATS

- SEAT MODULE, DRIVER (SMFA)
- SEAT MODULE, PASSENGER (SMBF)
- SEAT MODULE, DRIVER'S SIDE, REAR (SMFAH)
- SEAT MODULE, PASSENGER'S SIDE, REAR (SMBFH)
- SEAT / MIRROR / STEERING COLUMN MEMORY (SPM/SM/LSM)
- SEAT OCCUPANCY, PASSENGER (SBBF)
- SEAT MEMORY, DRIVER (SMF)
- ACTIVE BACKREST WIDTH, DRIVER (ALBFA)
- ACTIVE BACKREST WIDTH, FRONT PASSENGER (ALBBF)

## LOCKING AND SECURITY FUNCTIONS

- BODY BASIC MODULE (KBM)
- DRIVER'S DOOR MODULE (TMFA)
- PASSENGER DOOR MODULE (TMBF)
- DOOR MODULE, DRIVER'S DOOR (TMFAT)
- DOOR MODULE, PASSENGER DOOR (TMBFT)
- DOOR MODULE, DRIVER'S SIDE, REAR (TMFAH)
- DOOR MODULE, PASSENGER SIDE, REAR (TMBFH)
- COMFORT ACCESS SYSTEM (CA)
- BURGLAR ALARM SYSTEM (DWA)
- SLIDING / TILTING SUNROOF (SHD)
- FUNCTION CENTRE, ROOF (FZD)
- SIREN WITH TILT SENSOR (SINE)
- REAR LID LIFT (HKL)
- DOUBLE SUNROOF (DSHD)
- BOOT-LID MODULE (HKM)
- ROLLOVER SENSOR (URS)
- CONVERTIBLE TOP MODULE (CVM)

## HEATING & A/C

- HEATING AND AIR CONDITIONING (IHKA)
- REAR HEATER / AIR CONDITIONING (FKA)
- INDEPENDENT / AUXILIARY HEATER (SHZH)
- REAR-CABIN AUTOMATIC A/C (HKA)

## DISPLAY, INFORMATION, WARNING

- INSTRUMENT CLUSTER (INSTR)
- REAR COMPARTMENT DISPLAY (GATEWAY) (SG-FD-GW)
- REAR COMPARTMENT DISPLAY (SG-FD)

- HEAD-UP DISPLAY (HUD)
- CONTROL DISPLAY (GATEWAY) (CD-GW)
- CONTROL DISPLAY (CD)
- CENTRAL INFORMATION DISPLAY (CID)
- CONTROLLER (CON)
- MINI JOYSTICK (MJOY)
- REAR COMPARTMENT CONTROLLER (FCON)
- PARK DISTANCE CONTROL (PDC)
- REVERSING CAMERA (RFK)
- ALL-ROUND VIEW CAMERA (TRSVC)
- NIGHT VISION CAMERA (NVK)
- NIGHT VISION ELECTRONICS (NVE)
- INTERIOR CAMERA (VOCS)
- CAMERA-BASED DRIVER-ASSISTANCE SYSTEMS (KAFAS)
- ON BOARD COMPUTER (OBC)
- ON BOARD MONITOR / CONTROL PANEL (BMBT)

### AUDIO, VIDEO, NAV

- CAR COMMUNICATION COMPUTER (CCC)
- CAR INFORMATION COMPUTER (CIC)
- AERIAL / ANTENNA TUNER (ANT)
- AUDIO CD-CHANGER DSP (CDC DSP)
- AUDIO SYSTEM CONTROLLER (ASK)
- CD CHANGER (CDC) / IPOD Interface
- DIGITAL SOUND PROCESSOR (DSP)
- DIGITAL SOUND PROCESSOR CONTROL PANEL
- DIGITAL TUNER (DAB)
- DIGITAL TUNER US (IBOC)
- DVD CHANGER (DVDC)

- HEADSET INTERFACE (KHI)
- HI-FI AMPLIFIER (AMPH / AMPT)
- LANGUAGE INPUT SYSTEM (SES)
- LANGUAGE PROCESSING SYSTEM (SVS)
- MULTI INFORMATION DISPLAY (MID)
- MULTI INFORMATION RADIO (MIR)
- MULTIMEDIA CHANGER (MMC)
- NAVIGATION SYSTEM (NAV)
- RADIO (RAD)
- RADIO / IR SYSTEM (IRIS)
- REAR SEAT ENTERTAINMENT (RSE)
- SATELLITE TUNER (SDARS)
- VIDEO MODULE (VM)
- VIDEO SWITCH (VSW)

### OTHER BODY MODULES

- JUNCTION BOX ELECTRONICS (JBE)
- CENTRAL BODY ELECTRONICS (ZKE)
- ELECTRONIC BODY MODULE (EKM)
- GENERAL MODULE 5 (GM5)
- SWITCHING CENTRE, CENTRE CONSOLE (SZM)
- REAR COMPARTMENT, CONTROL CENTRE (FBZM)
- MULTI FUNCTION STEERING WHEEL (MFL)
- POWER MODULE (PM)
- DRIVER'S MIRROR MEMORY (SPMFT)
- PASSENGER ENTRANCE AID (SMB)
- PASSENGER MIRROR MEMORY (SPMBT)
- WIPER MODULE (WIM)
- SUPPLEMENTARY CONTROL UNIT (SEC)



- TRAILER MODULE (AHM)

## COMMUNICATION

- TELEPHONE (TCU / ULF)
- INTERFACE BOX HIGH (ULF-SBX-H)
- FLEXIBLE BUS INTERFACE (FBI)