

Module.....Steering Lock(Electronic immobiliser EWS4)  
Manufacturer.....BECOM Electronics GmbH  
Ref OEM.....8403459-01  
8544826-01  
8544826-02  
9444316-01

Memory device.....9S12G128  
Memory type.....MCU Eeprom  
Memory size.....4096 bytes

BMW R1200RT                    2014-2020  
BMW R1200GS                    2014-2020  
BMW S1000RR                    2013-2018



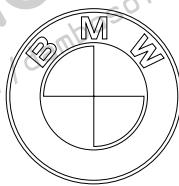
- Electronic immobiliser EWS4
- The electronic design of the motorcycle allows it to access data stored in the ignition key by means of a ring antenna located in the ignition switch/steering lock.  
The engine control unit will not permit the engine to be started unless the key is identified as authorised .
- All vehicles equipped with EWS4 system have a standard supply consisting in 2 keys.  
The maximum number of keys that can be memorized is 10.



Immobilizer Keys programming



VIN code edit



Module.....	engine ECU (BMS-KP)
Manufacturer.....	Bosch
Bosch/BMW Ref.....	0 261 209 623 /13618545091 0 261 209 622 /13618543376 0 261 209 391 /13618521661 0 261 209 392 /13618522506
Memory device.....	M58BW0160 ST MCU
Memory type.....	MCU Flash
Memory size.....	2097152 bytes
BMW R1200GS [K25].....	2004-2007 2007-2009 2009-2012
BMW R900RT [K26].....	2009-2013
BMW R1200RT [K26].....	2005-2009 2009-2014
BMW R1200R [K27].....	2006-2010 2011-2014
BMW R1200ST [K28].....	2005-2007
BMW K1200S [K40].....	2003-2008
BMW K1200R [K43].....	2004-2008
BMW K1200GT [K44].....	2004-2008
BMW K1300GT [K44].....	2007-2010
BMW F650GS [K72].....	2008-2012
BMW F800GS [K72].....	2008-2012 2012-2016
BMW F800R [K73].....	2009-2014 2014-2016
BMW F800S [K71].....	2006-2010
BMW F800ST [K71].....	2006-2012
BMW F700GS [K70].....	2012-2016
BMW F800GT [K71].....	2013-2016
BMW S1000RR [K46].....	2009-2011 2011-2014



- Electronic immobiliser EWS3
  - The electronic design of the motorcycle allows it to access data stored in the ignition key by means of a ring antenna located in the ignition switch/steering lock.
  - The engine control unit will not permit the engine to be started unless the key is identified as authorised .
  - All vehicles equipped with EWS3 system have a standard supply consisting in 2 keys.
- The maximum number of keys that can be memorized is 10.



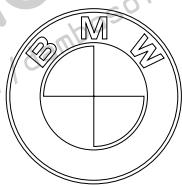
Immobilizer Keys programming



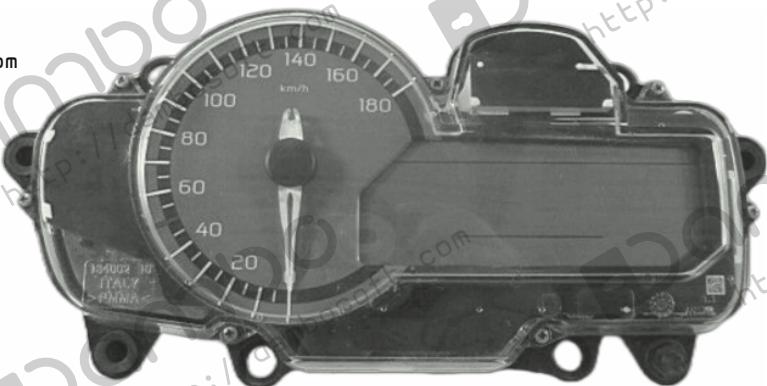
VIN code edit



Odometr correction

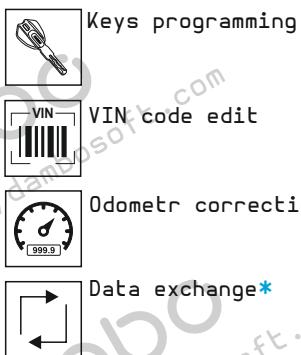


Module.....Dashboard  
Memory device.....25C160 Eeprom  
Memory size.....2048 bytes



BMW C600 Sport [K18]	2011-2015
BMW C650GT [K19]	2011-2025
BMW C650GT [K19]	2014-2019
BMW C650 Sport [K18]	2014-2019

- Electronic immobiliser EWS4
- The electronic design of the motorcycle allows it to access data stored in the ignition key by means of a ring antenna located in the ignition switch/steering lock.  
The engine control unit will not permit the engine to be started unless the key is identified as authorised .
- All vehicles equipped with EWS4 system have a standard supply consisting in 2 keys.  
The maximum number of keys that can be memorized is 10.

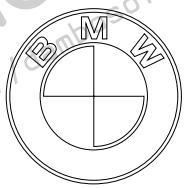


#### \*NOTE

The total mileage,VIN, encrypted codes and other data are stored in the memory of the dashboard and BMS-E control unit (ECU). If any control unit is damaged and replaced, you can transfer(synchronize)data between units. Your bike will have the right mileage, VIN, synchronization codes and units will work again as original.



\* Dump Tools/Unit DT0044 - BMW BMS-E ECU control unit



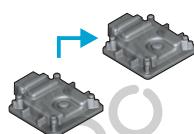
Module.....BMS-E ECU control unit  
Memory device.....95320 Eeprom  
Memory size.....4096 bytes

BMW C600 Sport	[K18]	2011-2015
BMW C650GT	[K19]	2011-2025
BMW C650GT	[K19]	2014-2019
BMW C650 Sport	[K18]	2014-2019

- VIN code edit
- Odometer correction
- Data exchange\*

**\*NOTE**

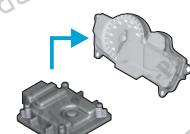
The total mileage, VIN, encrypted codes and other data are stored in the memory of the dashboard and BMS-E control unit (ECU). If any control unit is damaged and replaced, you can transfer(synchronize) data between units. Your bike will have the right mileage, VIN, synchronization codes and units will work again as original.



ECU to ECU



dashboard to BSM-E



ECU to dashboard

\* Dump Tools/Unit Dt0043 - Dashboard