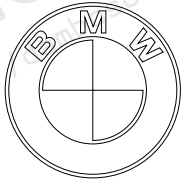




Description



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

Vehicles

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



Immobilizer

- 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.



Software options



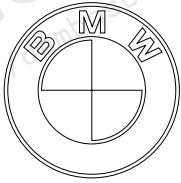
Immobilizer Keys programming



VIN code edit



Description



```

Module..... BMSKP engine control unit
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
    
```



Vehicles

|                        |           |
|------------------------|-----------|
| 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 |

Immobilizer

- 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.



Software options



Immobilizer Keys programming



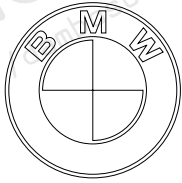
VIN code edit



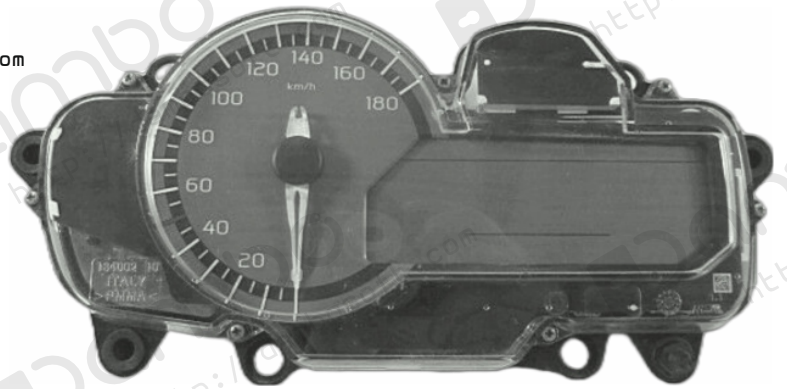
Odometer correction



Description



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



Vehicles





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

Immobilizer

- 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.

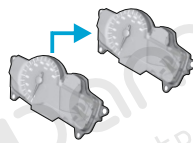


Software options

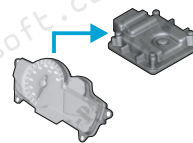
-  Keys programming
-  VIN code edit
-  Odometr correction
-  Data exchange\*

**\*NOTE**

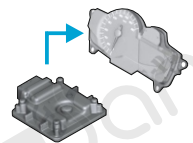
The total mileage, VIN, encrypted codes and other data are stored in the memory of the dashboard and BMS-E control unit (ECU). If any control unit is damaged and replaced, you can transfer (synchronize) data between units. Your bike will have the right mileage, VIN, synchronization codes and units will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



dashboard to dashboard



dashboard to BSM-E



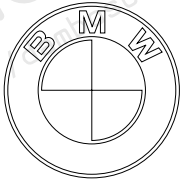
BSM-E to dashboard

Spare units

\* Dump Tools/Unit Dt0044 - BMW BMS-E ECU control unit



Description



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



Vehicles

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

Software options



VIN code edit



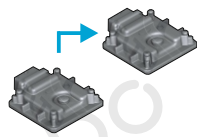
Odometer correction



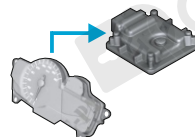
Data exchange\*

**\*NOTE**

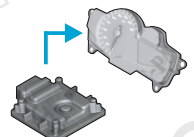
The total mileage, VIN, encrypted codes and other data are stored in the memory of the dashboard and BMS-E control unit (ECU). If any control unit is damaged and replaced, you can transfer(synchronize) data between units. Your bike will have the right mileage, VIN, synchronization codes and units will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



ECU to ECU



dashboard to BSM-E



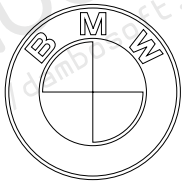
ECU to dashboard

Spare units

\* Dump Tools/Unit Dt0043 - Dashboard

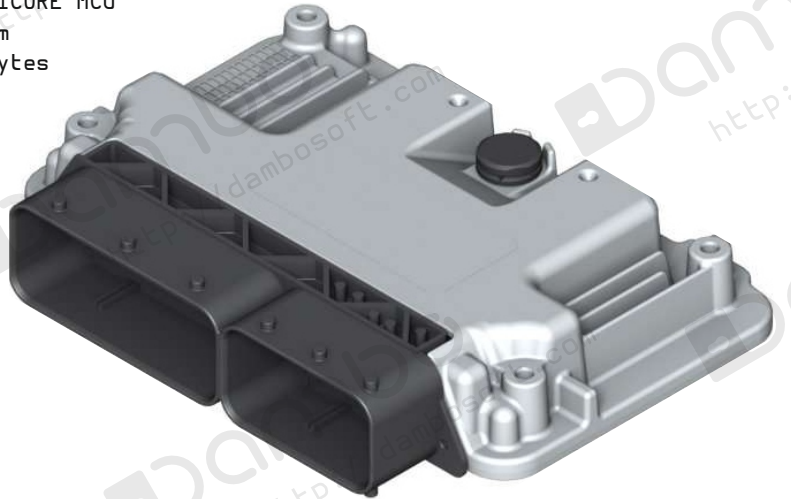


Description



Module..... BMSX engine control unit  
 Brand..... Bosch  
 Manufacturer..... BMW  
 Bosch/BMW Ref..... 0261510576 / 13618559224  
 0261508626 / 13618546129

Memory device..... TC1797 TRICORE MCU  
 Memory type..... MCU Eeprom  
 Memory size..... 2097152 bytes



Vehicles






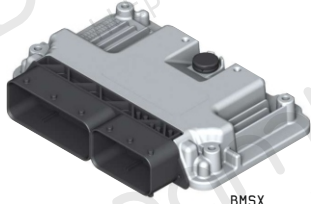
- BMW R1200GS [K50]..... 2013-2016
- BMW R1200GS Adv. [K51]..... 2014-2018
- BMW R1200R [K53]..... 2015-2018
- BMW R1200RS [K54]..... 2015-2018
- BMW R1200RT [K52]..... 2014-2018
- BMW S1000R [K47]..... 2014-2016
- BMW S1000RR [K46]..... 2014-2016
- BMW S1000XR [K47]..... 2015-2017
- BMW K1600GT [K48]..... 2011-2016
- BMW K1600GTL [K48]..... 2011-2016
- BMW K1600GTL Excl [K48]..... 2014-2016

Immobilizer






- Electronic immobiliser EWS3(up to 2012) or EWS4(2012+)
- 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 EWS system have a standard supply consisting in 2 keys. The maximum number of keys that can be memorized is 10.

**NOTE:**

For EWS4 system keys are stored in immobilizer unit(ignition lock)  
 see Unit DT041 for description.

| EWS4  | EWS3  |
|---|---|
| <br>Texas DST-80 transponder | <br>Hitag2 PCF7936 transponder |
| <br>immobilizer unit         | <br>Ring antenna unit        |
| <br>BMSX                     | <br>BMSX                     |

Software options

-  ISN edit (EWS4 system)
-  Keys programming (EWS3 system)
-  VIN code edit
-  Mechanical CODE (EWS3 system)
-  Odometer correction