

BMW MOTO BMSK(P) immobilizer emulator

BMW bikes with BMSK(P) ecu: **2004** up

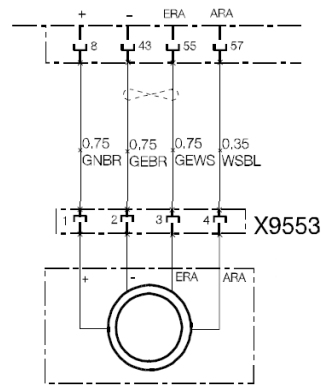
Designed for:

All BMW bikes with Hitag-2 keys, BMSK(P) ecu. Replaces antenna reader / amplifier and key itself.

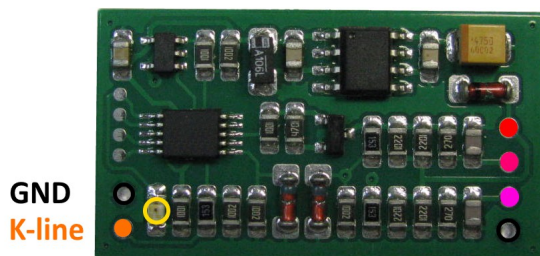
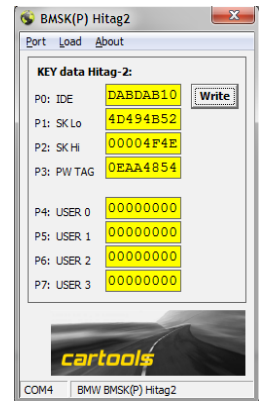
Preparation:

Must store key data into emulator using any K-line adapter and configurator software.

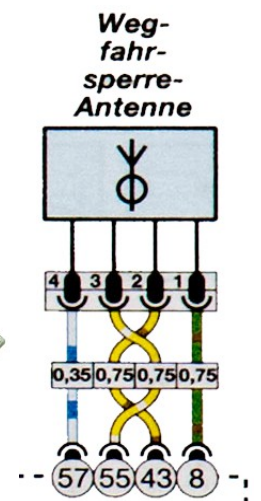
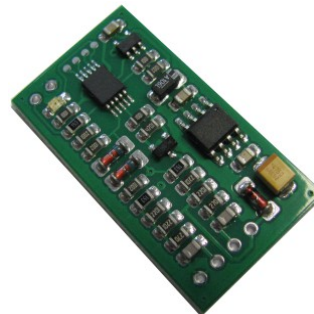
- Read flash from ECU, get KEY DATA (only P0...P3 are important for "USED / registered KEY").
- Store KEY DATA into emulator using any suitable K-line adapter. Proceed as follows:
 - power emulator from stabilized **+12v** power supply.
 - attach K-Line adapter to **GND** and **K-Line** pins,
 - use configurator software to store key data into emulator.
- LED on emulator board must blink 8x - data accepted and stored.



L9553
EWS Antenna
Ring



+12v
DATA
SCLK
GND



Installation:

- disconnect original antenna amplifier or cut ERA / ARA wires,
- connect emulator according to wiring diagrams (X9553: amplifier, ECU: BMSK(P) 58 pin connector-2):
 - **+12v**: X9553 pin1 / ECU pin8, +12v supply, +
 - **GND**: X9553 pin2 / ECU pin43, signal ground, -
 - **DATA**: X9553 pin3 / ECU pin55, data line, ERA
 - **SCLK**: X9553 pin4 / ECU pin57, serial clock, ARA

Typical LED behaviour:

- -*-*-*-*-*-*-*
- -*-*-*-*-*-*
- *****-*****
- *-----
- -*-*-*-*-*-*
- -*-*-*-*-*-*

8x short blinks: new **KEY data stored** (configurator - confirmation);
3x longer blinks after pause: **ECU authorized**;
3x longer blinks after longer blink: KEY ID / SK ok, possibly **wrong P3**;
1x short blink at startup: emulator powered ON, **no ECU requests**;
erratic blinking for some seconds (while immo active): **wrong KEY ID**;
erratic blinking, approx. 1/2 second: KEY ID known, **wrong SK**.

