



installation guide

breaker-contact less ignition system BMW R27 Part-no.: **1301471**

Dear customer,

you have purchased a high quality product from Ulis Motorradladen GmbH.

Please follow the installation instructions carefully.

Your Ulis Motorradladen GmbH team wishes you a safe journey at all times and lots of fun driving

Scope of delivery:

1 pc. ignition module, 1 pc. sensor disc, 1 pc. Special rotor screw M8, 1 pc. distance gauge, 2 pcs. screws M4, 1 pc. installation guide

Installation:

- Disconnect the battery before installing! Before reconnecting the battery, carefully check all connections!
- Remove the old screw of dynamo rotor, add the sensor disc and replace it with special screw M8 and washer M8.
- Slide the sensor disk onto the screw head and tighten the two grub screws slightly. Check that the brush holder and brushes cannot touch the sensor disk, otherwise there is a risk of short circuit! If necessary, increase the distance between the sensor disk using a second or thicker washer.
- Remove ignition capacitor and place the ignition module therefore. Measure the protrusion of the sensor disc from the ignition module housing. The encoder ring must protrude by 0mm +/-0,8mm. The position of the alternator rotor may vary, so spacing must be adjusted with washers. Put the distance gauge on the sensor ring and shift the ignition module towards the sensor ring gauge and tighten the screws. Secure the screws with medium-strength screw adhesive. Finally remove the distance gauge from the encoder ring.
- Connect the red wire to terminal 15 („+“ ignition). Connect the white wire by using to the ignition coil („1“ on alternator).

Adjustment:

- Turn the crankshaft exactly into the "S" position (= retarded ignition). If necessary, unscrew the spark plug before.

Caution: danger of electric shock! Keep away from the high voltage connection of the ignition coil during the following steps!

- Connect the battery and switch on the ignition voltage.
- Slowly turn the encoder disc **clockwise** until just to the point where the red LED starts to light up.
Note: while the LED is lit, ignition sparks are continuously generated 4x per second.
- Hold the sensor disc in this position while firmly tightening the two grub screws in sensor disc.
- Check the setting by turning the flywheel slightly: if you turn it clockwise, it must be exactly on the "S" mark the LED will start to light up.
- Remove distance gauge.
- Advice: with the engine running, position "S" (= retarded ignition) can be checked at approx. 1000rpm and position "F" (= advanced ignition) at approx. 3000rpm. The maximum deviation should not be greater than 3°

Test ignition cables and spark plugs:

- The red LED lights up when the flywheel is slightly above "S" in the direction of "TDC". At this position, when switched on ignition, generates an ignition spark 4x per second, which allows wiring and spark plugs to be checked.