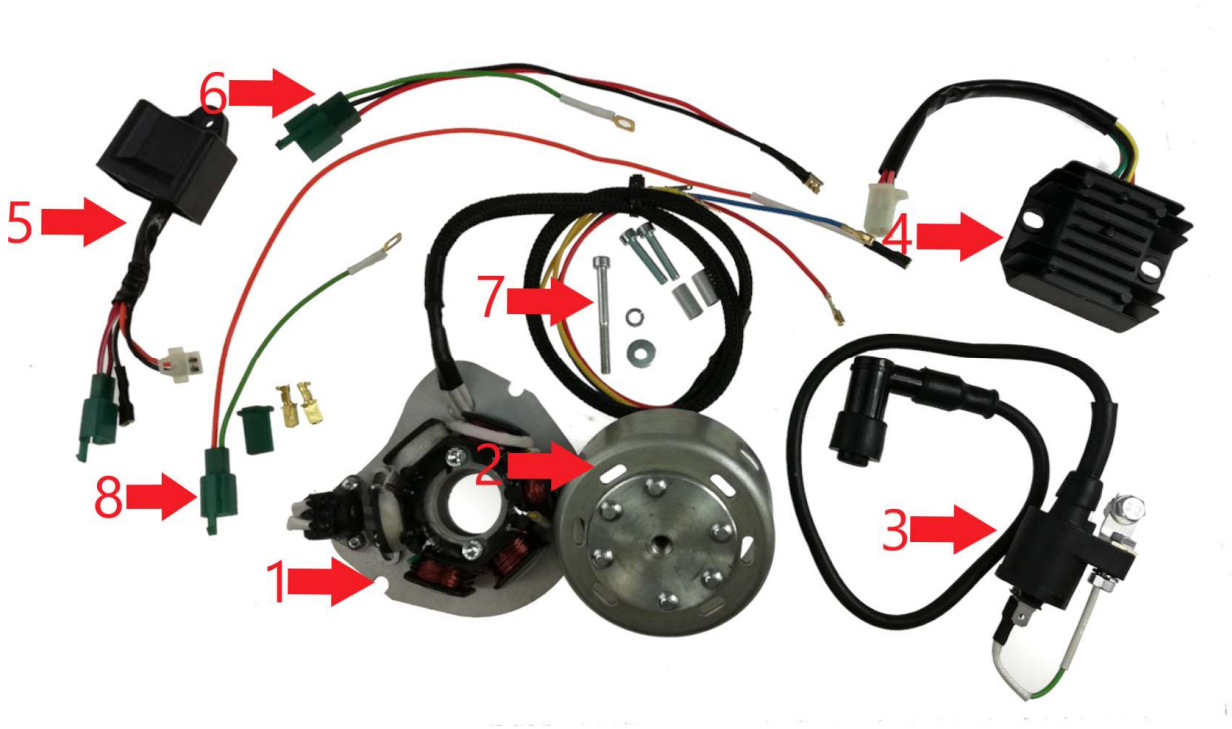
Assembly and usage manual for **GEMO D06**
contactless ignition system for JAWA mopeds.

I
Preparation to assembly

1. Place the vehicle on central feet.
2. Disassemble:
- high voltage coil
- bulbs (necessity to replace them with 12v counterpart)
- original stator and rotor along with wires

II
List of elements



1. Base with encoder, stator and wires.
2. Magnetic wheel.
3. High voltage coil.
4. Voltage adjuster.
5. Ignition module.
6. Voltage adjuster bundle.
7. Bolts with tubular torques and central magnet bolt.
8. High voltage module and coil bundle.

GEMO
generàtor motocyklů

III

Assembly

1. Assemble the new stator in the place of old one while placing it in such a way that it is possible to tighten it through tubular torques and m5 bolts included in the set.
a) place the stator in crankcase (encoder must face the lower left corner of the crankcase!),
b) complete tubular torques with m5 bolts,
c) tighten the stator placed inside the crankcase in two places using bolts with tubular torques,
d) move the encoder **away** from crankshaft axle as far as possible.

2. Mount the magnetic wheel.

CAUTION: Pay attention to groove setting for positioning pin! (They must be located in the same axis - only such position guarantees the correct setting of wheel!)

3. Tighten the magnetic wheel using m5 bolt included in the set.
4. Adjust the ignition offset angle and distance between encoder and marker:
a) set the ignition point (approx. 2 mm before the GMP),
b) loosen the encoder slider bolts (under the magnetic wheel!) and cause the marker (tab on the magnetic wheel) to "enter" the middle encoder point (by moving the encoder in direction pursuant with or opposite to the rotation of axis),
c) move the encoder closer to the marker (tab on the magnetic wheel in such a way that the gap between the middle encoder point and marker **has approximately 0.3 mm**,
d) tighten the encoder slider and the slider itself while paying attention to not distort the acquired position.
5. Tighten the magnetic wheel.
6. Lead the stator wires through rubber choke in the engine and "release" them outside of the engine.
7. Mount and tighten the right engine housing.
8. Place all electronic components (module and adjuster) in the vehicle and the high voltage coil in the place of original coil.
9. Connect the adjuster:

CAUTION: use the voltage adjuster bundle

a) **yellow** (adjuster) + **yellow** (engine),
b) **pink** (adjuster) + **yellow** (engine),

CAUTION: yellow colours from the engine can be set in any order

c) **green** (adjuster) + **earth** (motorcycle frame),
d) **red and black to provide power supply to installation** (driving/passing lights, horn, stop light, parking).

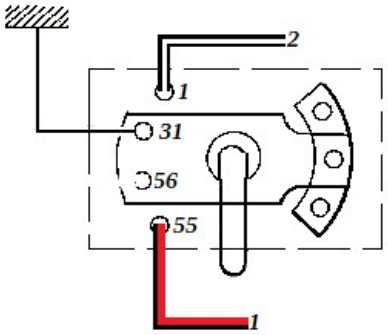
10. Connect the module:

CAUTION: Use the high voltage module and coil bundle:

a) **red-black** (module) + **red** (engine),
b) **red-white** (module) + **blue** (engine),
c) **black** (module) + **earth** (motorcycle frame),
d) **orange** (module) + **black pin** (high voltage coil),
e) **black-white** to turn off **(turn off by making contact with earth!)**.

11. Connect the high voltage coil:
a) **green pin** + **earth** (motorcycle frame),
b) **black pin** + **orange wire** (module).

12. Connect wires from the module (turn off) and voltage adjuster (lights/charging) to the ignition switch:



1. Black and red wire from the voltage adjuster (charging/lights).
2. Black-white wire from module (turn off).