

**FUNCTION TEST OF RECTIFIER-REGULATOR**1) General information

For transformation of the alternating current 12V 140W supplied by the generator there are 2 kinds of rectifier-regulators available:

- A) ROTAX part no. 866 080 can be used with or without battery. This single-phase-regulator requires imperatively a minimum consumption of 12 watts (1 Amp).
- B) ROTAX part no. 264 870 can be used with or without battery. This 3-phase regulator does not require any minimum consumption.

2) Checking of regulator function of 866 080

2.1 Proceed as follows to check regulator function:

2.2 Connect a completely charged 12 V battery with a capacity of 15 to 25 Ah.

2.3. Connect a lamp (bulb) of 12V 55W interposing a switch.

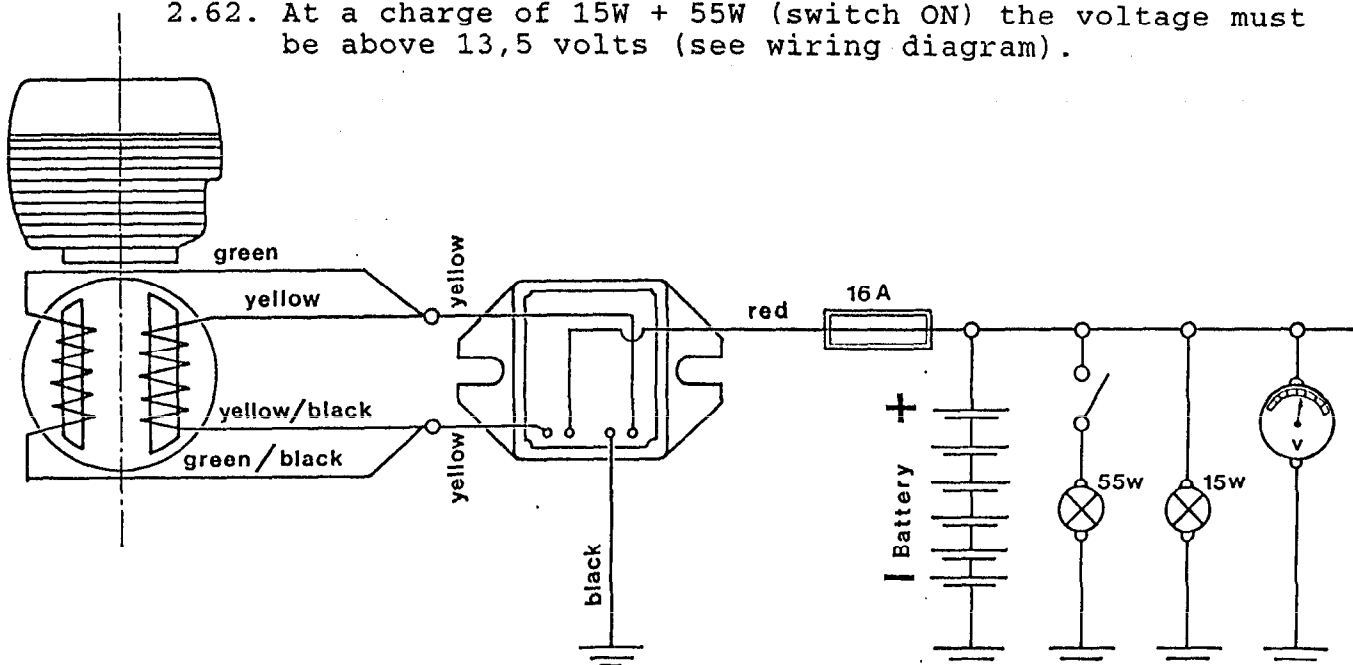
2.4. Connect a lamp (bulb) of 12V 15W directly, because a minimum charge of 1 Amp is required when using this rectifier-regulator.

2.5. Keep engine running at 3000 to 5000 r.p.m.

2.6. Check voltage with a voltmeter:

2.61. At a charge of 15W (switch OFF) the voltage must be below 14,5 volts.

2.62. At a charge of 15W + 55W (switch ON) the voltage must be above 13,5 volts (see wiring diagram).





3) Checking of regulator function of 264 870

3.1. For checking of the regulator function proceed as follows:

3.2. Connect a fully charged 12 V battery with a capacity of 15 to 25 Ah.

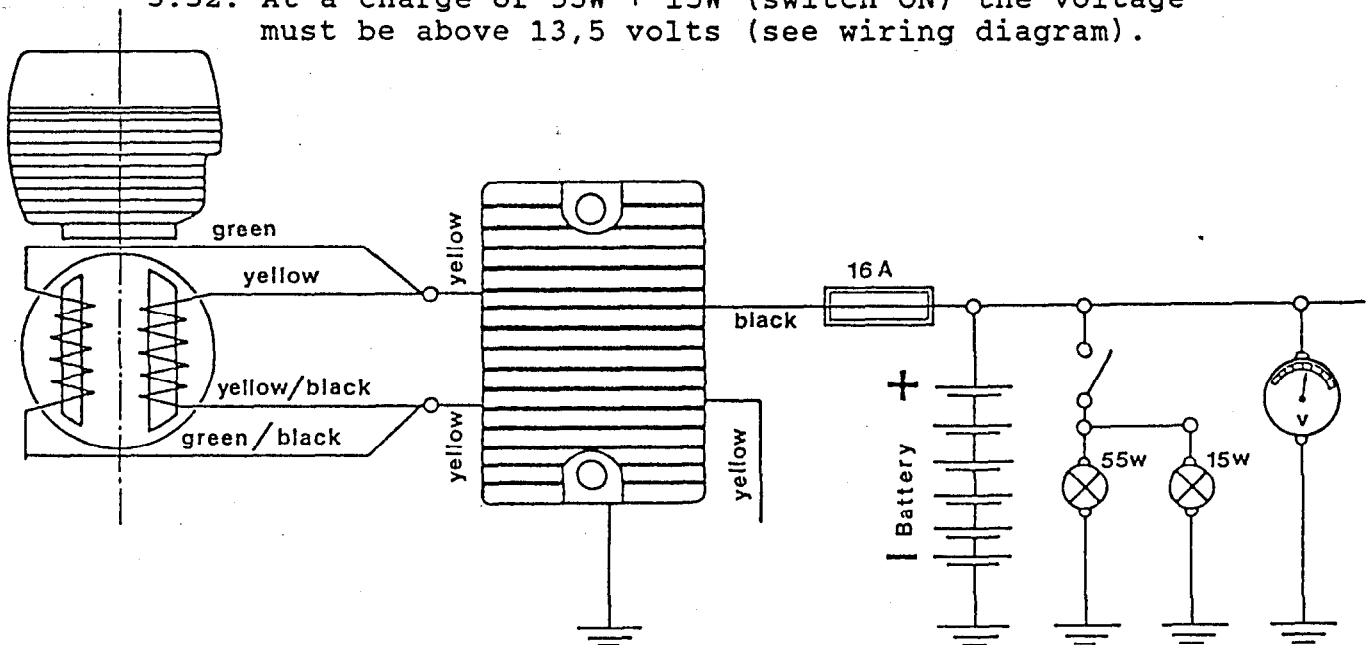
3.3. Connect a lamp (bulb) of 12V 55W and one lamp 12V 15W interposing a switch.

3.4. Keep engine running at 3000 to 5000 r.p.m.

3.5. Checking the voltage with a voltmeter:

3.51. Without charge (switch OFF) the voltage must be below 14 volts.

3.52. At a charge of 55W + 15W (switch ON) the voltage must be above 13,5 volts (see wiring diagram).



4) If the measuring values are beyond the indicated values, proceed as follows:

4.1. Check all cable connections and mass connections.

4.2. Check fuse and its connections.

4.3. Check charge of battery.

4.4. Check conductivity of 110 W lighting coil (yellow / yellow-black).

4.5. Check correct connection of additional lighting coil 30W.

4.6. If no fault is found so far, exchange rectifier regulator.

5) These measuring values are also valid if the 30 watts lighting coil (green-green/black) is not connected to the rectifier-regulator and is used e.g. for a tachometer.