

# 50A Regulator Wiring Guide

Applicable to: standard/MOSFET/Lithium



Fitting this part must be done by a trained & competent motorcycle electrician with the correct tools, equipment and the manufacturer's manual for the machine. This guide does not over-ride any warnings or cautions in the manual.

**Modern motorcycle electrical systems are extremely powerful compared to older machines. The standard of wiring and connections has to be far higher than most people are used to. Problems or wiring/stator burn out may occur if connections are less than 100%.**

**The correct crimping tools MUST be used. Crimped terminals should be crimped and soldered.**

**If supplied, apply contact grease to protect the terminals AFTER all soldering and checking.**

**Sub-standard wiring or incorrect connections will cause failures & invalidate your warranty.**

This part can be fitted to many different machines. The connections on the regulator are identified but also note the connector housing are 'handed'. Identifying the connectors & co-responding wires (requires the machine's wiring diagram) is the sole responsibility of the person doing the work.

- ✓ Intended for 3-phase, permanent magnet generators with a maximum output of 50 amps.
- ✓ Use with motorcycle specific Lithium batteries (Lithium type regulators only).
- ✗ Does not correct manufacturer's design faults on some Aprilia 1000cc models, Triumph and Ducati models where the generator is too powerful and has insufficient cooling.

**Warning! Connecting the battery to the wrong pins or in the wrong polarity will cause the rectifier to fail instantly - we have checked your unit before it was sent - units returned with a failed rectifier will not be replaced under warranty.**

- ➔ It is VITAL that you ensure the positive and negative connections are made to the right pins.
- ➔ The wires from the generator can be connected to the regulator's AC input in any order.
- ➔ The two connector housings are 'handed' IE they are designed only to fit to the correct place.

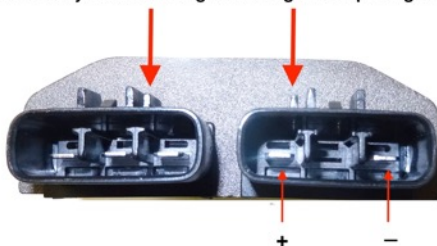
Caution: When changing connector housings the safety features that normally stop you making a wrong connection are not in place. Your diligence is the only thing preventing incorrect connection. Check your work thoroughly before applying battery power!

Check the charging output as described in the machine's shop manual.

Lithium regulators will charge at 14.0 +/- 0.2V

Standard & MOSFET 14.6 +/- 0.2V

Caution! The connectors only fit ONE way round!  
Make sure you have the right housing before putting wires in!



Generator: connect in any order

+ DC output -