

RODtronics

Mod. 6-NE 6 Volt Negative Earth

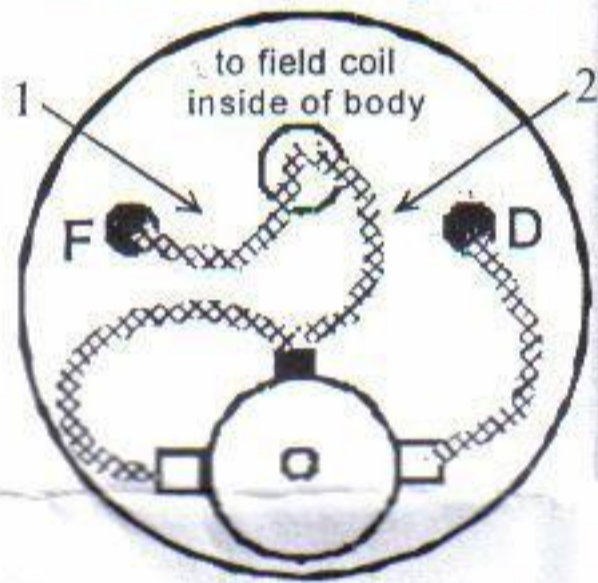
STOP! READ ME FIRST!!! THIS REGULATOR IS STATE OF THE ART DESIGN, AND USES STATE OF THE ART COMPONENTS. WE BENCH TEST THEM TWICE, ONCE AFTER ASSEMBLY AND AGAIN AFTER POTTING. IT IS DESIGNED TO GIVE YEARS OF DEPENDABLE SERVICE. HOWEVER, IT CAN AND WILL BE DAMAGED IF YOUR BATTERY POLARITY IS BACKWARDS. BEFORE INSTALLATION, BE SURE OF YOUR CHASSIS EARTH POLARITY AND MAKE SURE YOU HAVE THE CORRECT REGULATOR FOR YOUR EARTH POLARITY. IF YOU FEEL YOU ARE "ELECTRICALLY CHALLENGED" PLEASE CONSULT AN EXPERT.

YOU WILL NOTE THE INSTRUCTIONS CALL FOR A 15 AMP FUSE IN THE RED WIRE. THE REGULATOR HAS INTERNAL PROTECTION THAT WILL CAUSE THE FUSE TO BLOW IF THE BATTERY IS CONNECTED BACKWARDS. IF THIS FUSE BLOWS, CHECK AGAIN TO MAKE SURE YOU DO NOT HAVE THE BATTERY POLARITY REVERSED. IF YOU DO NOT HAVE THE FUSE IN PLACE, AND YOU CONNECT THE REGULATOR TO REVERSE BATTERY POLARITY, YOU WILL RUIN THE REGULATOR. THIS IS **NOT** COVERED UNDER WARRANTY. IF YOU RETURN THE REGULATOR, AND WE FIND THE INTERNAL PROTECTION CIRCUIT WAS DESTROYED BY REVERSED BATTERY POLARITY, YOUR WARRANTY IS NULL AND VOID AND THE UNIT WILL NOT BE REPLACED.

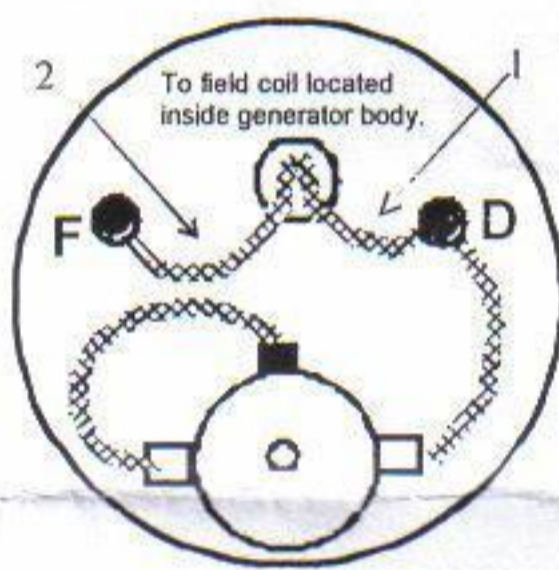
Step 1. Disconnect field wire marked #1 from "F" and connect it to the "D" terminal.

Step 2. Disconnect field wire marked #2 from earthing screw and and connect it to "F" terminal.

Old configuration for Lucas mechanical regulator

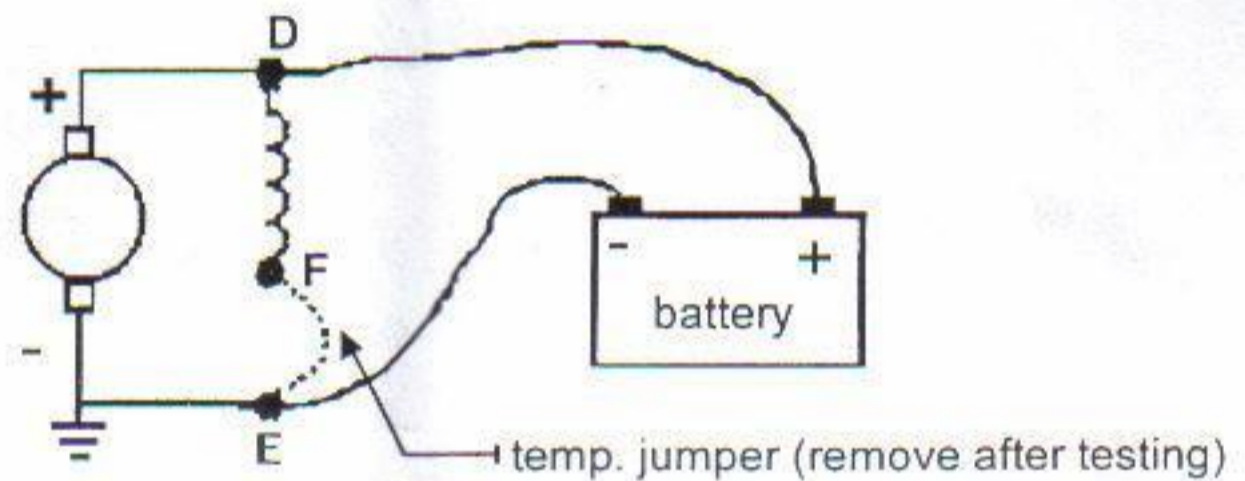


1. Move this field wire to "D" terminal.
2. Move this field wire to "F" terminal.



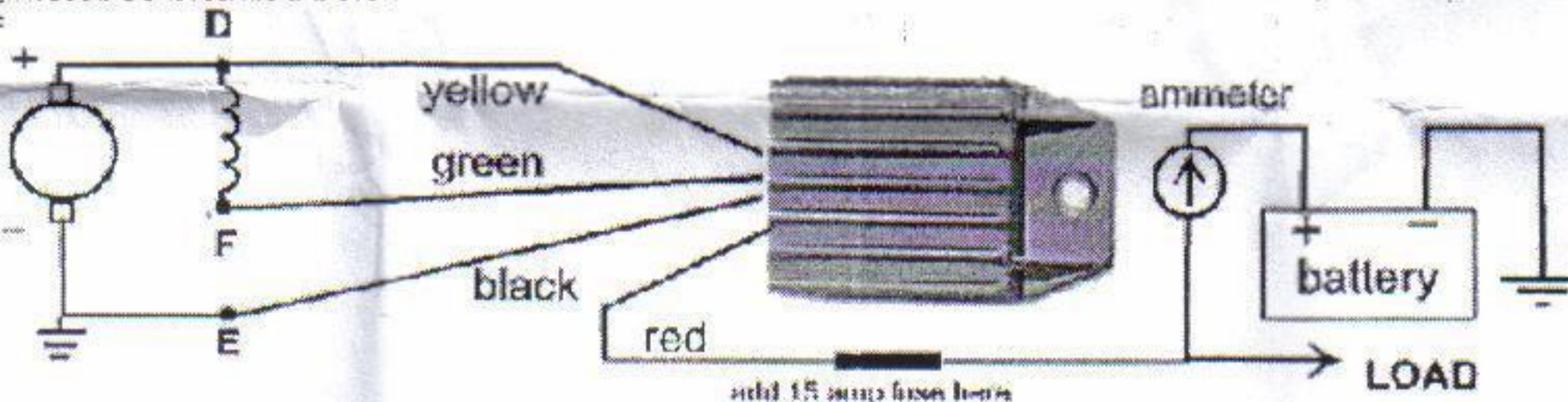
Field wires must be re-connected as per above drawing for solid state negative earth regulator

Testing and polarising the dynamo.



Testing and polarising the dynamo

- 1) Remove the dynamo from the motorcycle.
- 2) Connect a temporary jumper from the "F" terminal to dynamo earth.
- 3) Connect a wire from the negative terminal of a battery to the dynamo chassis.
- 4) Connect a wire from the positive battery terminal and touch it to the "D" terminal.
- 5) The dynamo should "motor" in the same direction of the arrow on the case.
- 6) This test will achieve two results-
 - a) You will determine if the field coil wires are connected correctly. If the armature does not rotate in the same direction as the arrow, reverse the field wires and try again.
 - b) You will have polarized the generator for negative earth.
- 7) After you have completed the above test and are confident the polarity and rotation are correct, connect the regulator to the dynamo.



Dynamo stopped charging? Each time the motor is started, the dynamo utilizes the residual magnetism from the last time it ran. If left standing for extended period of time, most residual magnetism will be lost. To renew this field magnetism, (1) Disconnect the regulator (2) Connect a temporary jumper between the dynamo "F" terminal and "E" ground. (3) Connect a wire to the "hot" (positive) side of your battery. (4) Now touch the hot wire from the battery to the "D" terminal for about a second. (5) Now reconnect the regulator. This should be sufficient to get your electrical system charging again.