

Third brush removal. (basic configuration)

To use the Vreg dynamo regulator on a 3 brush system the following basic configuration has to be achieved. IE the dynamo has to be reconfigured as a 2 brush.

Remove any cut-outs. (This function is achieved by the V reg). Remove the third brush assembly completely. Check that you now have a two brush system (brushes opposite to one another) and two wires going to the Field winding.

Rebuilding two brush Lucas type Dynamo-If rebuilding such after A) It was a 3 brush. B) It was previously built as 'Bosch' configuration. C) It has been 'taken apart' without taking full notes.

Identify the two brushes, one will connect to Earth, sometimes you have no option IE one brush holder is a casting at Earth.

Identify the two Field winding connections.

Arrange the Dynamo configuration as follows (possible temporarily)

One brush goes to Earth. The other brush goes to D.

One Field connection goes to Earth the other Field connection goes to F.

Connect the D to F (temporarily-clip lead, maybe on the outside of the case.)

At this point either check the Dynamo by motoring with a battery or check for output by motoring with your engine. (always polarise first).

If 'motoring' with a battery, check the direction of rotation is correct for use on your vehicle.

If checking for output with an engine then polarise first then use a 'headlamp' as a load from D/F to earth.

If the direction of rotation is wrong (with battery) OR no output with engine, then reverse the two Field connections, and repeat test.

Once you have output to your satisfaction make the internal connections permanent.

They will be as shown on the Vreg fitting information.

Finally if you have any remains of charge switching (maybe built into headlight switch) and or any charge resistor, then remove them, or at least remove any electrical connections/wiring.

At this point your Dynamo is configured as per Lucas and will work with the Vreg. 6V or 12V is your choice while the polarity of the Vreg must coincide with the polarity of your vehicle/battery.