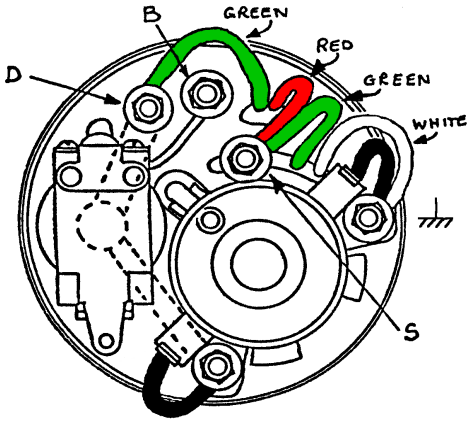
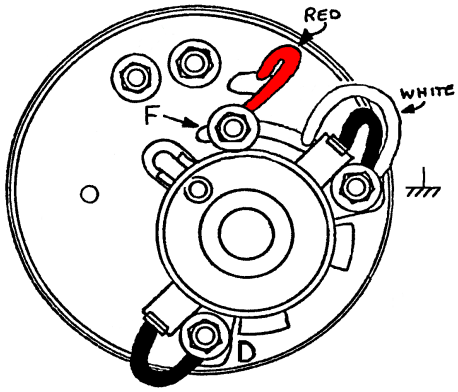
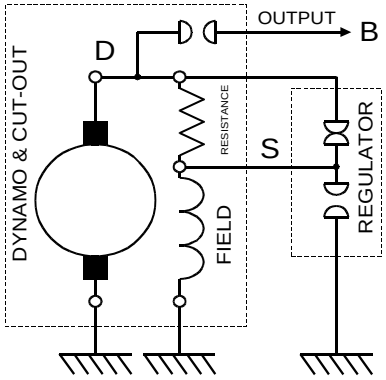
Using a Miller DVR dynamo with a DVR2 from Dynamo Regulators

The Miller DVR dynamo differs from the more often seen Lucas style dynamo in having a second 'resistance' field winding, and inclusion of a cut-out bobbin within its end cover. Both dynamo types have a main field winding with one end to 'earth' (often described as shunt connection). The DVR2 regulator is a compact, precise and robust electronic voltage regulator designed for use with shunt connected machines. The DVR dynamo is readily modified to conform to the Lucas F-A-D-E connection used by the DVR2.

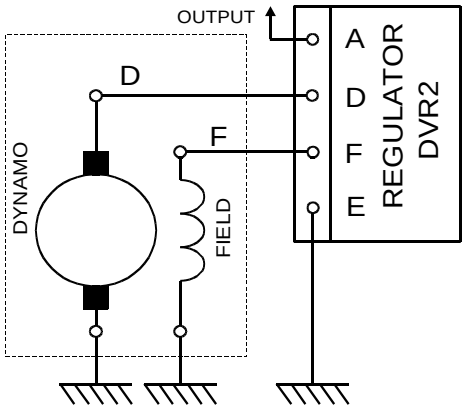




1. Remove the entire cut-out unit
2. Disconnect and insulate (or remove completely) the 2 leads to the resistance winding. This has a resistance of about 7 Ω, and the wires were originally green.
3. Leave the Red & White field winding wires (resistance about 4 Ω) in place between the earth and other screw terminal, formerly designated 'S' and which now becomes 'F'.
4. Connect to the DVR2 regulator; F to DVR2-F and non-earth brush terminal to DVR2-D
5. The regulated output from DVR2-A usually goes to the ammeter and lights switch. A fuse (10 or 12 Amp) should be fitted in this line.
6. It is good practice to connect a separate earth connection from the dynamo to the return of the headlight bulb (usually the highest current path) and to the DVR2-E wire.



MILLER DVR 2 BRUSH
(standard connections)



MILLER with DVR 2
(modified connections)

Dynamo polarity should be checked before connecting the battery. This may be done on the machine.

The information in this data-sheet is provided for guidance and is believed to be accurate. However DRL assumes no liability as a result of its use in a particular application. In case of any doubt the user is strongly advised to seek advice from an experienced auto-electrical technician. Classic vehicles electrical systems very likely will have been modified from the manufacturers original standard over many years of use.