

Sept 26

DVR2-B 12V Negative Earth. Motorcycle Electronic Regulator & Cut-out for Bosch Style Dynamos (Field to live or Type A, ground side regulation with Field connected in series with D+).

Some of the Key Benefits from fitting a DVR2-B electronic dynamo Regulator.

- Brighter & more consistent lighting
- Reliable charging from lower engine speed
- Easier starting due to greater battery power
- Longer battery and bulb life
- Lower maintenance – no adjustments & less battery top up.

General Description.

The DVR2-B is an electronic dynamo regulator suited for use on a wide range of Motorcycles incorporating a Bosch type “field to live”/Series/Type A/ ground side regulation. (Field coil connected to D+ and switched low side to earth).

This Type of Dynamo is fitted to many European, Japanese and overseas manufactured motorcycles including BMW, URAL, MZ and Italian machines including Laverda/Moto Guzzi and a multitude of dynamo equipped earlier Japanese machines.

Dynamo Regulators Limited has made every effort to ensure a robust and reliable design, incorporating many inbuilt protection devices.

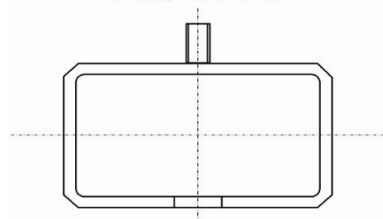
Nevertheless. **If in doubt about fitting the DVR2B or its suitability. Please seek advice from a suitably qualified auto electrician or other competent person.**

Fitting

The DVR2-B is easy to mount (and hide) on its own. Fixing is via the M5 x 9mm mounting stud. The aluminium enclosure/Mounting stud is electrically isolated from the internal electronics. This allows some flexibility in mounting arrangements. In operation the unit generates minimal heat. However, if continual heavy loading of the unit is anticipated. Mount the regulator in a position ensuring free air flow over the unit.

Dimensions.

Size: 56 x 33 mm (18 deep), 2.2" x 1.3" (0.71")
mounting stud M5 x 9 mm



Protection

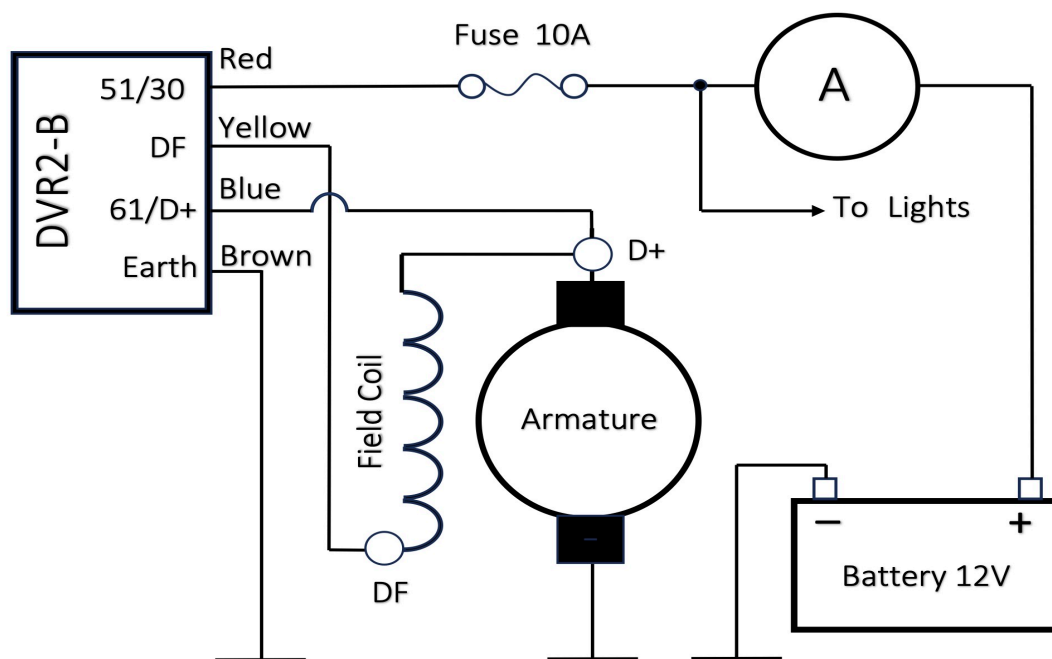
The DVR2-B is protected against voltage spikes from the dynamo or on the battery line. It will generally survive a short circuit to its output indefinitely. However, for full protection it is essential to fit an inline fuse as illustrated in the connection diagram. A fuse value of 10Amps should give adequate protection in most cases. The output current is typically 8 Amps and output power is limited to 100Watts.

Connections

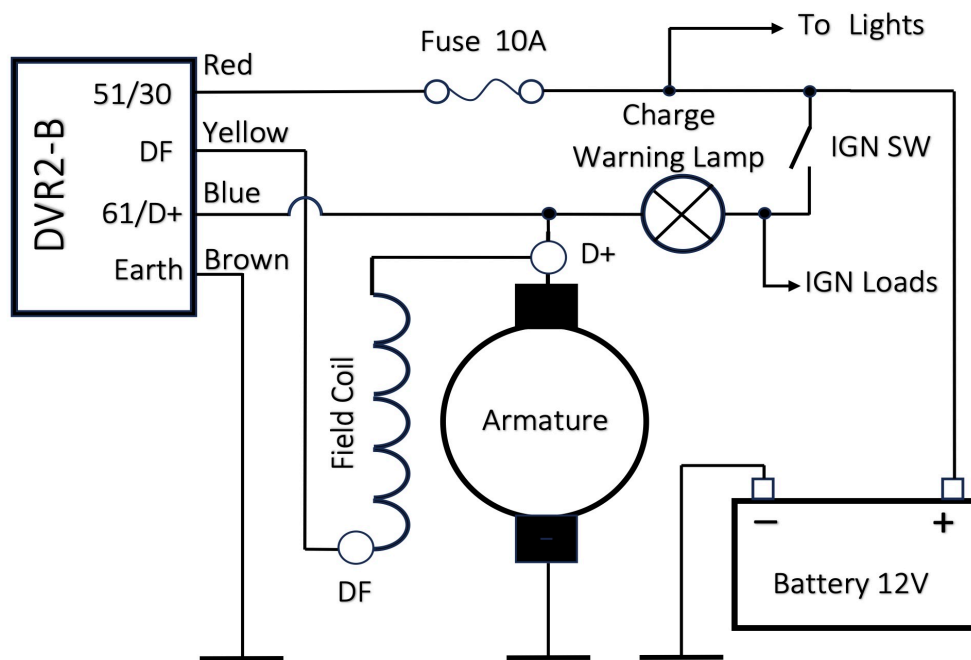
Disconnect battery or remove fuse before making any connections.

- Red wire Power 51/30/B+ via inline fuse 10A.
- Yellow wire Dynamo Field "DF" terminal.
- Blue wire Dynamo 61/D+ terminal.
- Brown wire Chassis Earth/Ground.

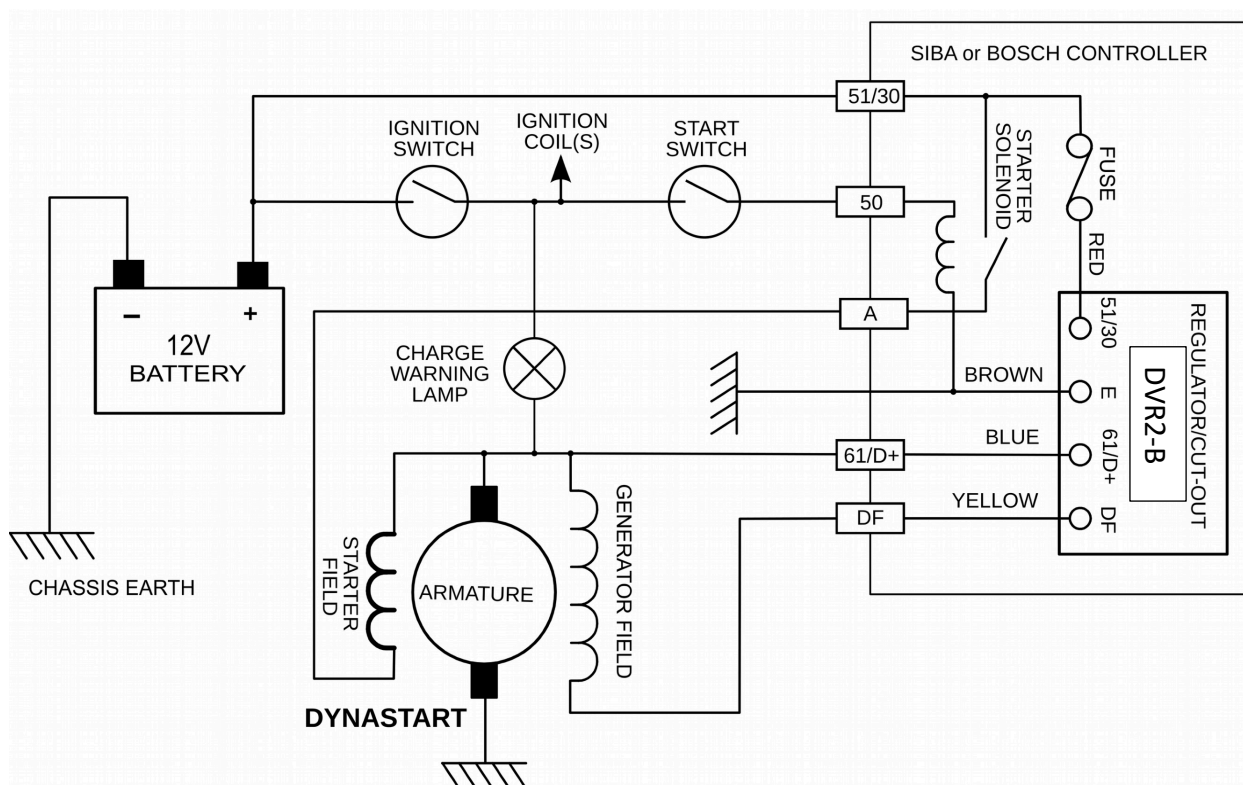
Caution. Seek qualified assistance if you are unsure about fitting.



Typical DVR2B installation with no IGN SW or Charge Light.



Typical DVR2B installation with IGN SW and Charge Lamp



Typical DVR2B installation with a Dynastart set-up.

Charging Checks.

After the DVR2-B has been connected. Check all connections and confirm one more time according to the connection diagram. Make sure the dynamo is well earthed with no paint or corrosion blocking the current path. **Re-fit the Fuse and reconnect battery.** Place a DVM (Voltmeter) between chassis/earth and the 12V Battery positive terminal. Start the engine. Note the red charging light goes out (If fitted). Measure the output voltage. As speed increases the voltage should increase and read a maximum of typically 14.2V at moderate revs.

Guarantee

The DVR2-B is guaranteed for one year from purchase against manufacturing defects, but not for faults caused by improper fitting or use. Read the instructions carefully before installing the device and if any doubts persist, contact a suitably qualified auto electrician or other competent person. If a fuse is not fitted as described in the connection diagram. Any claim for damage may be rejected.

Other Notes

- **The DVR2-B** is only suitable for Dynamos configured with **Bosch** type “field to live”/Series/Type A, ground side regulation. (Field coil connected to D+ and switched low side). **It will not function with a Lucas/Miller Shunt Field Dynamo. Use a DVR2-N or DVR2-P.**
- We do not recommend fitting a **Lithium Chemistry Battery** of any kind.
- The Resistance of the field coil when measured from D+ to DF must be greater than **3 ohms. (Typically 5-6ohms).**
- Should there be any reason to Re-flash the dynamo. Ensure the regulator is completely **disconnected** from the dynamo beforehand.
- Disconnect any resistor that is in series with the Field coil. Ensure there are no other connections to the “DF” terminal of the Dynamo.



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