

Autolite replacement electronic regulator

(Type A or B Field, current limited output)

Introduction

Some of the main benefits of fitting a Dynamo Regulators Ltd high quality 'solid state' electronic dynamo regulator to a classic vehicle are (no particular order):

- ◆ brighter & more consistent lighting ('steady ammeter reading')
- ◆ reliable charging from lower engine speed
- ◆ easier starting due to greater battery power
- ◆ longer battery and bulb life
- ◆ lower maintenance (no adjustments to regulator cut-out and less battery topping up)

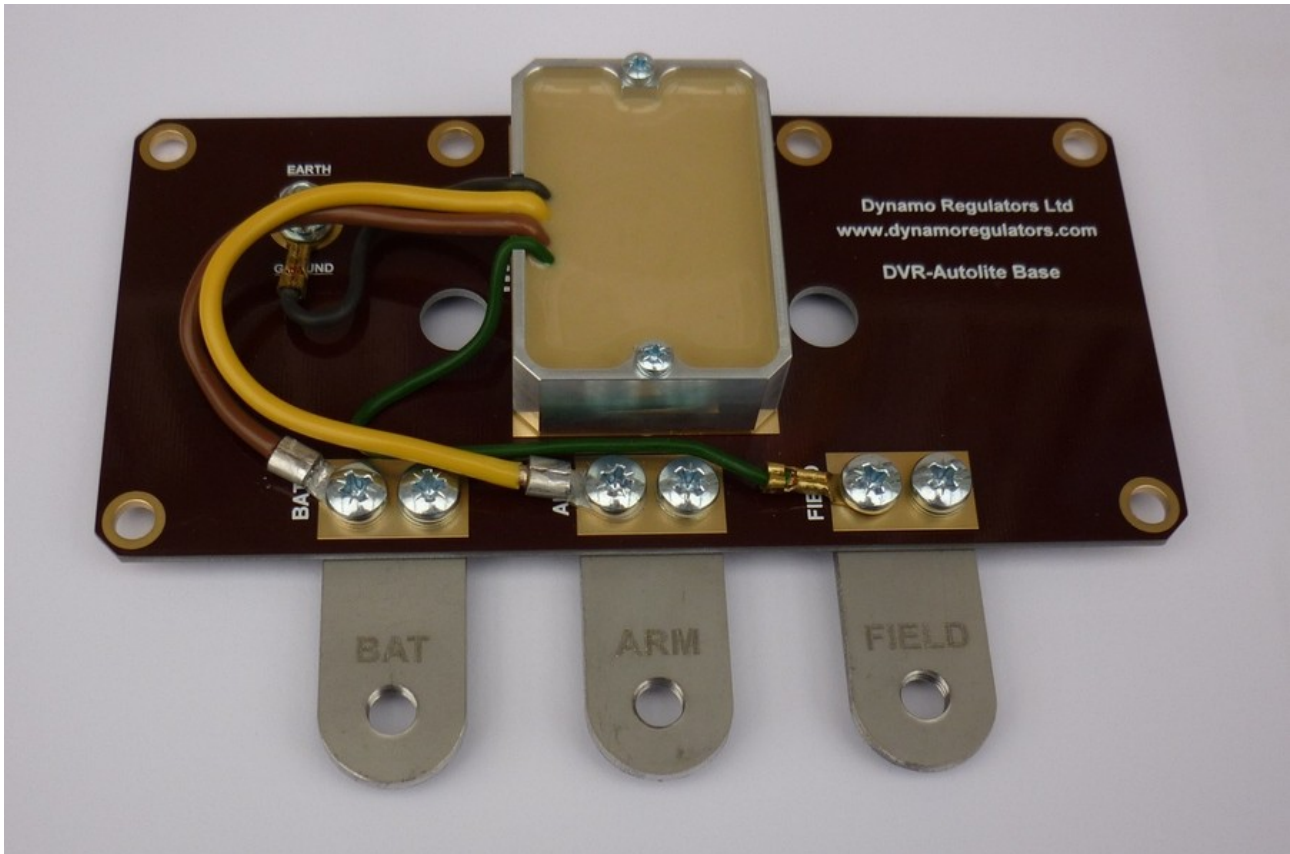
General Description

Dynamo Regulators now offers a replacement electronic dynamo regulator assembly for Autolite 2 brush generators. This is in the form of a heavy duty circuit board baseplate, onto which is mounted a suitable DVR3 or DVR4 regulator unit. Terminals are matt finish stainless with ARM, FIELD and BAT engraved and 5/16" UNF holes for connections. The 6 mounting holes are sized and position to provide drop in replacement for an old base, and the job is completed using the original cover to give near identical to original appearance. A choice of 6 or 12 V and output current values of up to 40 Amps is available, to control Generators with Type A or Type B field connection. The field winding resistance must be greater than 2.5 ohms.

The Type B version is suited for use on Willys MB and Ford GPW Jeeps and other Autolite equipped vehicles of the period. Type B has one end of the field winding connected to common 'earth' (also known as 'shunt' field or grounded field connection). It replaces the Autolite VRY-4203-A type, to suit Autolite dynamo types GEG-5001-A, GEG-5002-D, GEG-5101D. Field resistance is 3.5 ohm nominal. These are all 40 Amp 6V generators. Type B dynamo gives full unregulated output if Dynamo Armature output connected to Field.

General Description (continued)

Type A is the more common Autolite field connection; one end of the field is connected to the 'live' brush (sometimes referred to as 'series' or hot field, or ground side regulation). Dynamo is Type A if grounding the Field wire gives full unregulated output.



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Protection features

The current limit circuitry offers protection from excessive drain due to faulty wiring or a low or failing battery for example. These regulators are well protected against voltage spikes from the dynamo or on the battery line and from reversed polarity output of the dynamo. Experience has shown that these features are essential. Regulator (and dynamo) protection against accidental reverse connection of the battery is ensured by fitting a fuse in the line from the BAT regulator output. Fitting a fuse is good practice with either original equipment type 'CVC' regulators or an electronic replacement. Fit a fuse rated the next size up from the chosen current limit output.

Fitting

The Autolite base size is 6.75 x 3.25 inches as the original item. After removing the old unit base board, clean up the base to ensure good earth contact and screw down the new regulator assembly in 6 places. Two holes in the assembly clear the pillars used to mount the original unit cover.

Connections

Before fitting the regulator we recommend confirming that your dynamo gives a good output of the correct polarity. Temporarily connect Field to Armature to observe unregulated output (type B). Or ground Field to test for unregulated output (type A)

Disconnect the battery or remove the fuse before connecting!

Connect the 3 leads using 5/16 UNF screws to the terminal tags. Check there is a good earth/ground connection to the regulator.

Don't forget to refit the fuse after connecting!

Guarantee

The Autolite replacement regulator assembly is guaranteed for one year from purchase against manufacturing defects, but not for faults caused by improper fitting or use. If a fuse is not fitted as described above any claim for damage may be rejected.

If in any doubt about fitting consult a competent auto-electrician.



75 Titchfield Park Road, Fareham, Hants PO15 5RN

UK Reg. No. 07295701, Tel: +44 (0)1489 880552

<http://www.dynamoregulators.com>

e-mail: dvr@dynamoregulators.com