

## ELG163 Voltage Control Box Installation Guidance

Before commencing replacing the voltage control box check the below items to eliminate any issues elsewhere in the vehicle charging/electrical system that may be faulty/out of service limits that will show an erroneous fault with the voltage control box that may not need replacing.-replacing the voltage control box with any of the listed components not being checked correctly to eliminate any of these to be the source of the issue could shorten the life of the new voltage control box and damage the dynamo.

If you are unsure or inexperienced with working on a vehicles electrical system, then please contact an auto electrician or specialist that is familiar with these classic vehicle electrical systems.

### Checklist:

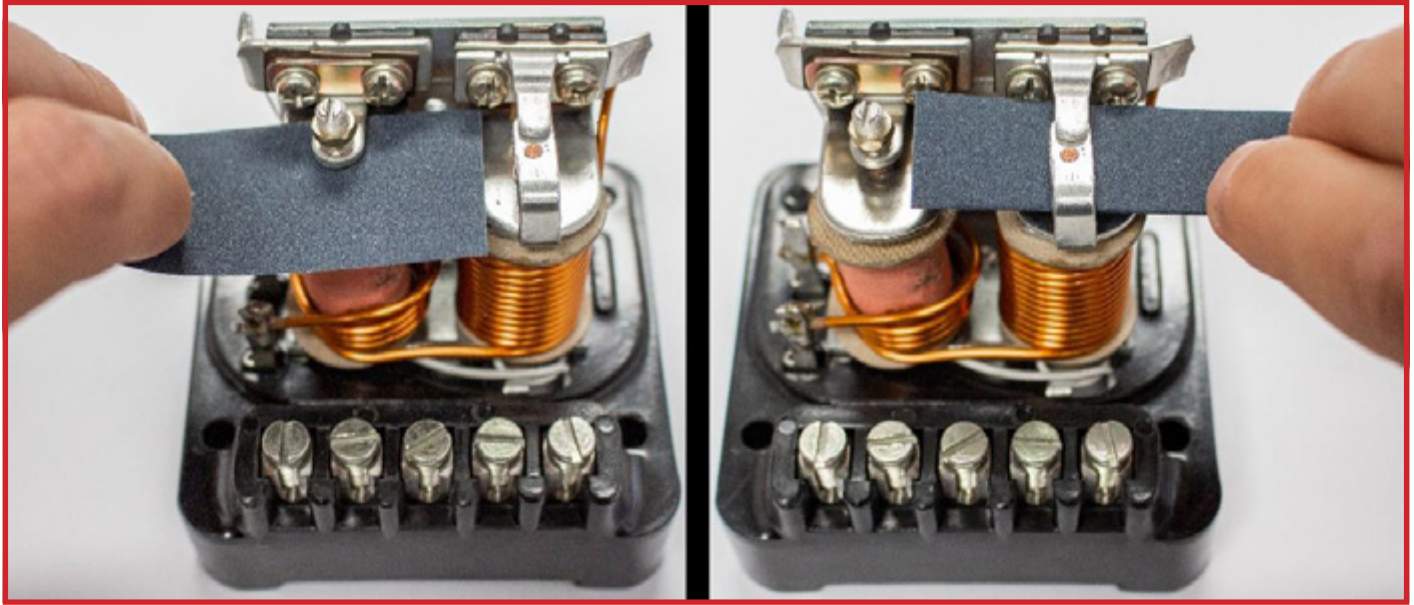
- » Check your dynamo is charging correctly-refer to factory workshop manual.
- » Check all terminals are connected securely, clean and in good condition.
- » Clean the battery terminals and cable ends.
- » Remove and clean the earth lead chassis fixing.
- » Check your battery is fully charged. A fully charged battery should show 12.6 volts.

**ELG163**  
Voltage Regulator  
5-Post Screw Terminals



They require the contacts to be cleaned prior to connecting to the vehicle electrical system-see below:

Fold a piece of wet & dry paper and pull it through the contacts-see below image.



**Left Hand Coil**

**Right Hand Coil**

Once the above procedure has been done then clean any residue from the surrounding area with a lint free cloth and rubbing/surgical spirit.

To make sure that once fitted the new voltage regulator is working as it is designed for then follow the procedure in the factory working shop manual to make sure that the coils are opening at the correct values, see below values:

**Left hand coil (regulator coil) opens between 13 to 14 volts.**

**Right hand coil (Cut-Out) opens at 10 to 12 volts.**

If either of the above do not open when the relevant voltage is reached, then adjustment of the voltage regulator will be required-adjusting of the voltage regulator is covered in the factory workshop manual.

**Workshop manuals available from AH Spares:**

**BOK101**  
**Healey 100/ - BN1 & BN2**

**BOK102**  
**All 6-cylinder Healey's BN4 - BJ8**