

Elan Factory Customer Projects

October 2007

Background information

During the last 15 years Lotus owners have sent all manner of repair jobs to The Elan Factory. This includes an extraordinary variety of electrical equipment in need of repair. Rather than sublet these components, we prefer to carry our own electrical repairs in-house.

Vehicle details

The alternator below has come from a late model V8 Esprit. The owner has experienced a low voltage output from the alternator that resulted in the battery not being fully charged. The alternator problem was subsequently traced to a faulty voltage regulator that was changed by the following procedure below.



Standard alternator for V8 Esprit



Remove three Torx anti-tamper screws



Alternator cover removed



Next, remove brush assembly and check commutator field winding resistance with DVM



Un-solder, then remove voltage regulator and inspect commutator brushes for wear



Remove stud from faulty voltage regulator



Install new regulator then the brush assembly



Solder regulator connection



Final checks with DVM



Reinstall plastic cover to complete the job

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