

Fail-safe Centring Device for Drive Shaft Couplings

This device has been designed for high-speed applications to enable large amounts of torque to be safely transmitted to the rear wheels of a Lotus Elan or single seater racecar. This offers the following benefits:

- Effectively transmits large amounts of torque for high speed applications
- Produces smoother drive shaft motion particularly during take-off
- Eliminates any orbital motion caused by out-of-balance condition of the intermediate drive shaft
- Fail safe design in the event of drive shaft coupling failure
- Extends drive shaft coupling life under racing conditions

The centring device illustrated below has been carefully designed to be installed in your existing driveline without adding significant extra-unsprung weight.



- Weight - 160 grams
- Material - Mild steel housing and centre plate
- TIG welded bearing housing
- High quality radial spherical bearing
- Retaining circlip allows spherical bearing to be replaced.
- Epoxy black paint protective finish (optional)
- Black zinc plate protective finish (optional)
- Race proven product.

It is also recommended that drive shafts should be crack tested before any modifications are performed. This service can be carried out for a small fee. This modification requires the inboard and outboard drive shafts to have a high tensile steel pin installed in them. This requires the shafts to be counter-bored to accept the high tensile pins (press fit). The centre pin is then TIG welded to the drive shaft and then machined to be parallel with the drive shaft axis. Drive shaft modifications can normally be carried out in two to three days providing there are no delays.

For further information regarding drive shaft centering device, performance products or genuine Lotus products, please phone The Elan Factory on (613) 9761-1903 or fax on (613) 9739-8944. Alternatively you can write to The Elan Factory at 5 Marong Court, Boronia Heights 3155, Melbourne, Australia or e-mail at elanfactory@optusnet.com.au