

The Elan Factory – Product Data Sheet



Tandem brake master cylinder with remote reservoirs

Lotus owners looking for an elegant solution in updating their race or road going car may want to consider this versatile tandem brake master cylinder system. This brake master cylinder allows standard single hydraulic braking systems to be easily upgraded to a more modern and safer system. For owners of race cars, this cylinder allows brake system to be split and the useful addition of a brake bias control valve can be easily installed in the rear hydraulic system. This arrangement then allows drivers to dial in the amount of brake bias to suit their preference. The addition of remote reservoirs provides convenient topping up of brake fluid where access is restricted in standard Lotus Elan or Lotus Europa.



- Master cylinder overall length – 185.0mm (7.280 inches)
- Height – 55.0mm (2.16 inches) bore centre line to top of banjo bolts
- Bore diameter – nominal 17.5mm (0.7 inch)
- Plunger travel – 16.0mm (0.625 inch)
- Main body material – Aluminium alloy

The Elan Factory – Product Data Sheet



Tandem brake master cylinder with remote reservoirs

- Reservoir material – Aluminium alloy
- Brake pipe fittings – standard 3/8 UNF
- Fixing bolts – 5/16 UNF
- Fixing bolt pitch circle diameter – 56.6mm (2.230 inches)
- Reservoir cap – plastic screw cap (aluminium alloy at additional cost)

This master cylinder has been carefully selected to provide the correct pedal response and subsequent pressures. The reservoirs have been designed to facilitate ease of installation. In addition to this, reservoir capacities have been calculated and then cross-checked by measuring the volumes. A safety margin has been added to ensure the correct amount of hydraulic fluid is available in the unlikely event that the reservoir is not topped up.

Installation of the tandem brake master cylinder is straightforward, and minimal modifications are required. It is recommended that the braking system should be split, with the two forward brake calipers connected to the forward hydraulic connection and relevant reservoir. The two rear brake calipers should then be connected to the rear most hydraulic connection and relevant reservoir.

The brake master cylinder is supplied ready for immediate installation and comes with the following components.

- 3/8 UNF banjo bolts - nickel, quantity 2
- 3/8 banjo fittings - nickel, quantity 2
- 3/8 copper washers, quantity 2
- Plastic caps for the reservoirs, quantity 2
- Alloy reservoir, quantity 2
- Flexible hose and fittings, quantity 2

Other options available for this brake master cylinder include alloy reservoir caps (Girling original equipment) and different length flexible hoses. Please enquire for pricing and availability.

For further information regarding brake components, 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
email = elanfactory@optusnet.com.au website = www.elanfactory.com.au

30 May 2006