



**Engineering | Manufacturing | Distribution**

## New Product Announcement

**Cessna 150, 152, 172, 175 and 182 - Shimmy Dampener Assembly**

### Improved design for consistent dampening action!

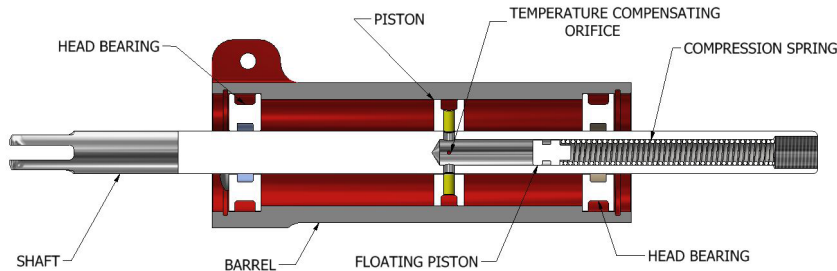
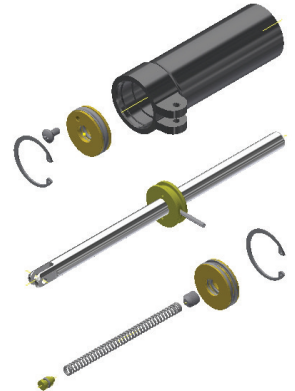
- Oversize shaft for rigid strength
- Wear resistant hard anodized housing
- Better shimmy dampening
- Costs less than the throw away Lord dampener
- Totally repairable and self lubricating



P/N MC0442512-1

### Temperature compensated hydraulics

- Almost no service required
- Even the first minor movements are dampened
- Consistent dampening action



Direct replacement for part numbers 0442512-1 and 0542119-1

### Why is a hydraulic shimmy dampener better than a rubber dampener?

By Dave McFarlane

There are inherent differences in static friction of rubber and dynamic friction of rubber that affect dampening performance. Long term use changes the performance of the dampener caused by all of these un-repairable factors. The hydraulic system works in a film oil with stable performance for long periods of time and it is totally repairable.

A rubber based dampener is continuously fatiguing the rubber components as it changes direction of motion. The rubber system depends on stable friction of the rubber riding in a metal tube. This is very difficult to achieve over extended use.

There are inherent differences in static friction of rubber and dynamic friction of rubber that affect dampening performance. Long term use changes the performance of the dampener caused by all of these un-repairable factors. The hydraulic system works in a film oil with stable performance for long periods of time and it is totally repairable.

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