LORD® Fluid-Free Shimmy Dampers

The LORD® Fluid-Free Shimmy Damper offers high-performance damping with a maintenance free design. It uses surface-effect technology to provide consistent damping for nose gears. Instead of using fluids to resist motion, our Shimmy Damper features a unique rubber formulation with a high-tech lubricant to absorb nose wheel shimmy. Since there is no fluid, this damper will not leak.

Accelerated life testing of the LORD Shimmy Damper demonstrates that it performs in excess of 5,000 ground-air-ground duty cycles. This represents a product life of more than 10 years of usage on the typical high-use aircraft (fixed landing gear models only).

Just 10 to 20 drops of fluid leakage can cut the performance of a traditional, hydraulic damper in half. But, with the LORD Shimmy Damper, vibration control remains constant. Due to its surface effect design, the Shimmy Damper’s spring rate, force and energy dissipation can be precisely controlled over time and within a wide range of temperatures. This same patented technology has been proven with more than 10 years in the aerospace industry.

Features & Benefits

Valuable – Simple design provides high reliability and lowers operating costs.

Efficient – Simplicity of use (one-for-one replacement) and compatible with existing installation.

Reliable – Large diameter shaft increases durability and reduces wear of nose gear linkages. No performance degradation over time and use.

Versatile – Consistent damping from -30° to 150°F.

Surface-Effect Technology

The LORD Shimmy Damper utilizes surface-effect technology. LORD has replaced the hydraulic piston in the traditional damper with a fully-bonded rubber piston that presses out against the inner diameter of the housing. This rubber piston then rides on a very thin film of grease. The rubbing action between the piston and the housing provides the damping. Since there is no hydraulic fluid to leak out, you won’t need to service the damper.

LORD Performance Advantage

[Graph showing the performance advantage of the LORD Shimmy Damper compared to a typical fluid-filled damper across a range of temperatures from -50°F to 150°F.]
### Aircraft Applicability
*(fixed landing gear models only)*

<table>
<thead>
<tr>
<th>LORD PART NUMBER</th>
<th>AIRCRAFT APPLICABILITY</th>
<th>PMA SUPPLEMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>SE-1051-3</td>
<td>CESSNA 150, 150A, B, C, D, E, F</td>
<td>67 Amendment 1</td>
</tr>
<tr>
<td>SE-1069-5</td>
<td>CESSNA 162K, L, M, N, P, Q, R, S, T, T182T</td>
<td>91</td>
</tr>
<tr>
<td>SE-1070-7</td>
<td>CESSNA C208, C208A, C208B</td>
<td>96</td>
</tr>
<tr>
<td>SE-1088-1</td>
<td>CESSNA CARDINAL 177, 177A, 177B</td>
<td>112</td>
</tr>
</tbody>
</table>

LORD and “Ask Us How” are trademarks of LORD Corporation or one of its subsidiaries.

LORD provides valuable expertise in adhesives and coatings, vibration and motion control, and magnetically responsive technologies. Our people work in collaboration with our customers to help them increase the value of their products. Innovative and responsive in an ever-changing marketplace, we are focused on providing solutions for our customers worldwide ... Ask Us How.

**LORD Corporation**

**World Headquarters**
111 Lord Drive
Cary, NC 27511-7923
USA

**Customer Support Center** *(in United States & Canada)*
+1 877 ASK LORD (275 5673)
www.lord.com

For a listing of our worldwide locations, visit LORD.com.

©2017 LORD Corporation OD PB6062 (Rev.8 10/17)