

# 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.

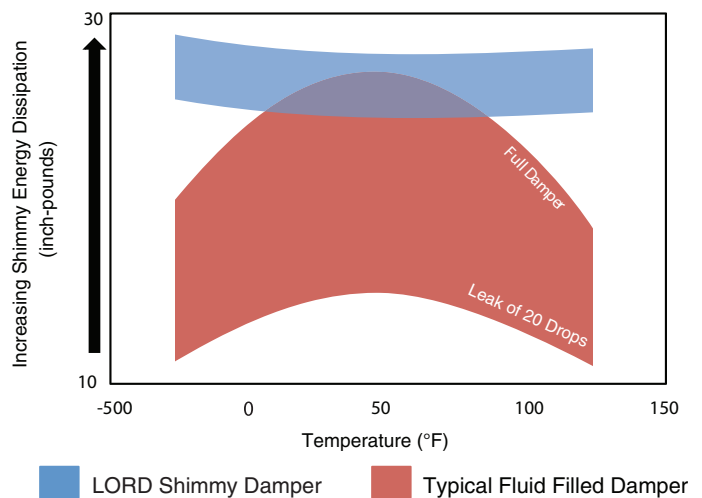


LORD Shimmy Damper

## 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



# LORD PRODUCT INFORMATION

## Aircraft Applicability *(fixed landing gear models only)*

LORD PART NUMBER	AIRCRAFT APPLICABILITY	PMA SUPPLEMENT
<b>SE-1051-2</b>  Replaces Cessna P/N 0442512-1 and 0542119-1 for models listed	CESSNA 150G, H, J, K, L, M F150G, H, J, K, L, M, A150K, L, M, FA150K, L FRA150L, FRA150M 152 (ALL) 1978 thru 1985 (no letter designators) F152 (ALL) 1978 thru 1984 (no letter designators) A152 (ALL) 1978 thru 1985 (no letter designators) FA152 (ALL) 1978 thru 1984 (no letter designators) 172, 172 A, B, C, D, E, F, G, H, I, K, L, M, N, P, Q, R, S F172D, E, F, G, H, K, L, M, N, P P172D, FR172E, F, G, H, J (REIMS ROCKET) R172K, FR172K 175, 175A, B, C 182B, C, D	102
<b>SE-1051-3</b>  Replaces Cessna P/N 0442512-2 and 0542119-2 for models listed	CESSNA 150, 150A, B, C, D, E, F	67 Amendment 1
<b>SE-1068-5</b>  Replaces Cessna P/N 0743624-1 for models listed	CESSNA 182K, L, M, N, P, Q, R, S, T, T182T	91
<b>SE-1069-3</b>  Replaces Cessna P/N 0743624-2 for models listed	CESSNA 206H, U206B, U206C, U206D, U206E, U206F, U206G, TU206B, TU206C, TU206D, TU206E, TU206F, TU206G, TU206H, P206B, P206C, P206D, P206E 207, 207A, T207, T207A 210G, 210H, 210J, 210K, 210L, 210M, 210N, 210R, T210K, T210L, T210M, T210N, P210N, P210R	83
<b>SE-1070-7</b>  Replaces Cessna P/N 2643090-3 for models listed	CESSNA C208, C208A, C208B	96
<b>SE-1076-1</b>  Replaces Hawker Beechcraft P/N(s): 35-825145, 35-825145-2, and 35-825145-6	HAWKER BEECHCRAFT 58P, 58TC 35-33, 35-A33, 35-C33A, E33C, F33, F33A, F33C, G33, H35, J35, K35, M35, N35, P35, S35, V35, V35A, V35B, 36, A36, A36TC, B36TC 95-55, 95-A55, 95-B55, 95-C55, 95-C55A, G58, D55, D55A, E55, 58 35, A35, B35, C35, D35, E35, F35, G35	103
<b>SE-1088-1</b>	CESSNA CARDINAL 177, 177A, 177B	112
<b>SE-1090-1</b>  Replaces Cessna P/N 0842410-2 for models listed S/N 0001-0710 for 182 models	CESSNA 310, 310B, 310C, 310D, 310F, 310G, 310H, 310I, 310J, 310K, 310L, 310N, 310P, T310P, 310R, T310R, 320, 320A, 320B, 320C, 320D, 320E, 320F, 335, 340, 340A, 401, 401A, 401B, 402, 402A, 402B, 402C, 411, 411A, 414, 414A, 421, 421A, 421B, 421C, 425, 404, 406, 441, R182, TR182, FR182	104
<b>SE-1508-1</b>  Replaces Piper P/N 456-015 for models listed	PIPER PA-28 PA-28-140, PA-28-140B, PA-28-140C, PA-28-140D, PA-28-140E, PA-28-140 Cruiser, PA-28-150, PA-28-150B, PA-28-150C, PA-28-160, PA-28-160B, PA-28-160C, PA-28-180, PA-28-180B, PA-28-180C, PA-28-180D, PA-28-180E, PA-28-180F, PA-28-180G, PA-28-180 Challenger, PA-28-180 Archer, PA-28-181, PA-28-181 Archer II, PA-28-181, Archer III, PA-28-181 Archer LX	124
<b>SE-1508-2</b>  Replaces Piper P/N 456-015 for models listed	PIPER PA-28 PA-28-151, PA-28-161, PA-28-161 Warrior II, PA-28-161 Warrior III, PA-32-301 Saratoga, PA-32-301T Saratoga, PA-32-301XTC, PA-32-301FT 6X	124

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