



*Improve Engine Performance!*  
*Reduce Engine Noise!*



## Install **NEW Red Shift® Dual Piston Cam Chain Tensioners** from Zipper's Performance Products

**New! Red Shift® Dual Piston Cam Chain Tensioners** are a must-have for all 2007-up Twin Cam® performance applications. Red Shift® Dual Piston Cam Chain Tensioners are a direct-replacement, aftermarket product designed to improve cam timing accuracy and valve train control at two critical key areas - the drive and driven cam chains on all 2007-up engines.

### **Red Shift® Dual Piston Cam Chain Tensioners...**

- **Restore Critical Camshaft Timing Events** for Both Cylinders
- **Reduce Valve Train Noise** by Increasing Chain and Valve Train Stability
- **Improve Throttle Response**, Engine Acceleration and Engine Smoothness
- **Increased Horsepower and Torque** throughout the Entire RPM Range
- **Increase Valve Train Component Lifespan** in High Performance Applications



## *It's Time to Upgrade*

**Why upgrade to a performance camshaft if you're not upgrading the key valve train control parts at the same time?** Replacing the original equipment hydraulic tensioners with this new dual

hydraulic-bodied design will maximize chain stability, restore critical timing events, reduce valve train noise, and improve the lifespan of valve train components; all while improving the overall performance of the engine!

<b>Part No.</b>	<b>Description</b>
#413-901	Fits all 2007-up Big Twin engines, 2006 FXD engines, and all 1999-2006 Twin Cam® engines converted to hydraulic tensioner systems

***Click Here to Learn More!***



## *Revolutionary Design*

**The revolutionary new dual-piston design is so simple and effective; it's easy to see why it works.** On a stock single piston tensioner design, the natural shoe movement causes the hydraulic piston to momentarily unseat at the base, which interrupts the pressurized oil stream and introduces air into the hydraulic tensioner. Air

will diminish or eliminate the pressure that the tensioner shoe places on the cam drive chains, allowing loss of valve train control - leading to "bounced" components including valves, spring collars, rocker arms, pushrods, lifters and camshafts. **Red Shift® Dual Piston Cam Chain Tensioners are designed with shoe and hydraulic stability in mind, eliminating harmful air leaks in the cam chain tensioning system while dramatically improving overall valve train control and durability.**



***Designed and Manufactured  
in the U.S.A.***

**Red Shift® Dual Piston Cam Chain Tensioners are the finest tensioners on the market, engineered with superior manufacturing and design.** Red Shift® Dual Piston Cam Chain Tensioners are manufactured in the U.S.A., from high-quality billet aluminum, premium wear-resistant plastic and automotive grade hydraulic tensioning bodies. These tensioners are manufactured to extremely close tolerances to ensure maximum valve train control and engine performance. **Patent pending #13/017.821**



**Zipper's Performance  
Products, U.S.A.**

***Ready to place an order or need to  
find a dealer near you? Contact  
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Zipper's Performance has friendly, service-oriented sales staff available to help you. Contact Zipper's Monday through Friday, from 9 AM to 6 PM E.S.T or submit your request to [zippers@ZippersPerformance.com](mailto:zippers@ZippersPerformance.com)

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