

# SpeedLock high performance alloy-composite firing pins with exclusive SpeedLock CS Springs

**T**oday's custom rifle relies on technological advances to achieve its superb accuracy. Stainless steel barrels, composite stocks, super-strength epoxy bedding, and ultra-precise construction techniques have given us rifles capable of outstanding accuracy. The goal is always to eliminate variables so that every bullet hits closer to the next. SpeedLock Systems helps overcome one of the most influential variables: lock time. Lock time is the time between the trigger break and primer ignition.

The flight time of most bullets through the barrel is 1.0-1.5 milliseconds (thousandths of a second) while the lock time of most conventional bolt action rifles varies between 2.6 and 9.0 milliseconds. On average, a SpeedLock Systems alloy firing pin cuts lock time approximately 31 percent. Combined with a radically improved SpeedLock CS Spring (included), lock time is reduced another 8 percent. This is a total reduction in lock time of 39 percent.

**The effect is amazing:** by the time the firing pin has reached the primer on most rifles, the bullet has already left the muzzle on a SpeedLock Systems gun! Dry fire just once and you'll hear the difference!

**The result is simple:** a reduction in lock time will cause your rifle to hit closer to where you held the crosshairs when you pulled the trigger. Everyone's rifle is moving when it's fired. The amount of movement may be almost imperceptible, but that's all it takes. If you're shooting at a trophy deer at 300 yards, movement at the muzzle of only 0.058 inches means a missed animal. If you're a competitive silhouette shooter, just 0.022 movement makes the difference between a hit and a miss on a 500-meter ram. When lock time is reduced, the probability of the misses and lost points is reduced. SpeedLock Systems helps you squeeze that last ounce of accuracy from your rifle, and SpeedLock Systems accomplishes this with a minimum of time, effort, and cost (all products must be installed by a competent gunsmith).

It's been proven that primer ignition is a critical factor in accuracy and consistency. Another benefit of the alloy firing pin is that its lighter weight and more powerful spring results in a higher velocity striker. SpeedLock Systems parts deliver a higher energy impact faster and more efficiently.

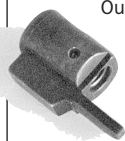
Also, another advantage of our lightweight pin is that it ignites the primer with less movement of mass, thereby greatly reducing the vibrations associated with firing pin fall. These vibrations begin to cycle and oscillate the muzzle well before the bullet exits the barrel. A SpeedLock Systems pin reduces the level of this oscillation to the extent that the accuracy of your rifle may actually improve. This effect is easily seen by dry firing from a benchrest using a high powered scope. Watch the scope reticle movement "before" and "after" and the difference is astounding.

SpeedLock Systems firing pins are durable. Our pins are an alloy composite construction. Materials and construction for each pin has been carefully optimized. The primary material in our pins is an aluminum alloy for high tensile strength and rigidity. SpeedLock pin tips are heat-treated 4140 steel.

SpeedLock Systems was developed by 11-Time National High Power Rifle Champion, David Tubb. For over 15 years, these assemblies have been used extensively by championship-winning Silhouette, High Power, and Long Range shooters, people whose success depends on every advantage. SpeedLock Systems gives you the edge!

## Winchester Model 70 Cocking Piece

Our cocking piece replaces the standard part and adds the following features –



- 1 Reinforced cam finger – no cracks or breaks!
- 2 New cross pin allows universal fitting when used with SpeedLock™ firing pin.
- 3 Threaded through to decrease weight.

With this new design, ALL variations of Model 70™ [post-'64, pre-'64, Classic™] can now be fitted with a high-performance SpeedLock™ firing pin.

# SpeedLock Systems™

## Chrome Silicon springs —

**S**peedLock CS Springs are included with every centerfire rifle firing pin kit. These are not ordinary springs! They are the only firing pin springs constructed from this superior material and held to rigid 9002 Quality Control Standards. This combination, along with the use of certified materials, yields the highest quality, most consistent, and best performing springs available. Unlike standard or the so-called “extra power” firing pin springs, our SpeedLock CS Springs provide consistent performance over 500,000 cycles. The life of our CS product far exceeds any other available spring, and due to exacting production controls and our exclusive post-production processing methods, each SpeedLock CS Spring is perfectly consistent.

SpeedLock CS Springs provide the same thrust and power as the “extra power” springs from our competitors but do so at a stock installed height. This simply means that bolt lift effort and trigger pull are both improved while still greatly increasing ignition performance.

SpeedLock CS Springs are available individually for all popular bolt action rifles, plus AR15-type firearms. Call or write for more information or see us on the web at [www.SuperiorShootingSystems.com](http://www.SuperiorShootingSystems.com).

This product is being sold on an as-is, where-is basis and must be installed by a competent gunsmith. Visit our web site to view full warranty and conditions of sale. [www.SuperiorShootingSystems.com](http://www.SuperiorShootingSystems.com)

### Other Products

Please visit [www.SuperiorShootingSystems.com](http://www.SuperiorShootingSystems.com) for product information and purchase, and all the latest information and updates on this product. While you're there, check out other products developed by David Tubb, like his SpecTac-LR (TUBB 2000) rifle, FinalFinish™ bore treatment system, and the DTAC line of competition bullets and loaded ammunition. Superior Shooting Systems has an ever-expanding line of products for the serious rifleman. Call, write, or go on-line to order a full-color 48-page product catalog.

## Performance is in the numbers

### Remington 700 short-action

#### Standard Firing pin

Firing pin weight 650 grains

Lock time 2.6 milliseconds

#### SpeedLock Systems pin

Firing pin weight 285 grains

Lock time 1.6 milliseconds

### SpeedLock Systems pin — net effect

- 365 grain reduction in firing pin weight — 58% reduction
- Lock time was reduced 1.01 milliseconds — 39% reduction

*[Other models produce similar percentage comparisons.]*



# David Tubb's SpeedLock Systems™

Developed by 11-time National High-Power Champion, David Tubb

## high performance alloy-composite firing pin systems

### Remington COMPLETE ASSEMBLY

[firing pin, spring, bolt shroud, cocking piece — fits all]

Remington 700  short  long

Remington Model 7/ XP100

### Remington Firing Pin and CS Spring

Remington 700  short  long

Remington Model 7/ XP100

Ruger 77  short  long

Mauser 98

Weatherby Mark V

Winchester Model 70  short  long

[Model 70 cocking piece available separately]

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