

# RIMFIRE PERFECTED

## AR-15 22lr Firing Pins, Extractors and Springs

### Instructions for Installation and Use



Figure 1.1 – BoreBuddy 22lr AR Premium Firing Pin



Figure 1.2 - BoreBuddy Hardened Power Extractor Kit

**WARNING! Exercise careful firearms handling procedures at all times. Ensure the weapon is unloaded prior to installation of the components provided in this kit. BoreBuddy recommends a double visual chamber inspection (look once, look away, look again), followed a physical chamber inspection to ensure the rifle is unloaded. This kit is intended for training or recreational purposes only, any unlawful use is strictly forbidden.**

**Always wear eye and ear protection when discharging firearms (yes, even 22lr!) and follow the Four Rules for firearm safety: Always keep firearms pointed in a safe direction, treat every firearm as if it is loaded, keep your finger off the trigger until you are ready to shoot and be sure of your target and what is beyond it.**

### 22AR Hardened Power Extractor

**What does the Hardened Power Extractor do?**

The 22AR Hardened Power Extractor comes with one hardened steel extractor and includes a set of increased power extractor springs for better extractor bite and increased live round extraction reliability on a dirty chamber or with waxy ammo (Ex: Golden Bullets, Armscor, etc.).



**Figure 1.3 - BoreBuddy Hardened Power Extractor**

## Power Extractor Springs

### **What do BoreBuddy Extractor Springs do?**

BoreBuddy Extractor Springs have a higher stiffness than the stock springs that is included with the CMMG bolt. The 200% spring is approximately 2x stronger and the 500% is 5x stronger than the stock spring. These springs will improve extraction and increase reliability especially as the chamber becomes fouled. Select the 200% to start, and if extraction problems persist, use the 500%. The 200% is has thinner wire than the 500% and will



### **Installing a Hardened Power Extractor and Spring**

To install, first disassemble your bolt carrier group so you can have access to the extractor pin as shown in Figure 1.4. Next drive the extractor pin out from top to bottom using a 3/32 inch roll pin punch or other small round tool, as demonstrated in Figure 1.5. Then, remove the extractor and spring. Replace the stock spring and extractor with the BoreBuddy Power Extractor and spring. Place the spring in the spring seat as shown in Figure 1.6, and align the hole in the bolt and extractor and re-insert the pin from the bottom to the top until it stops against the top of the bolt and clears the rails.

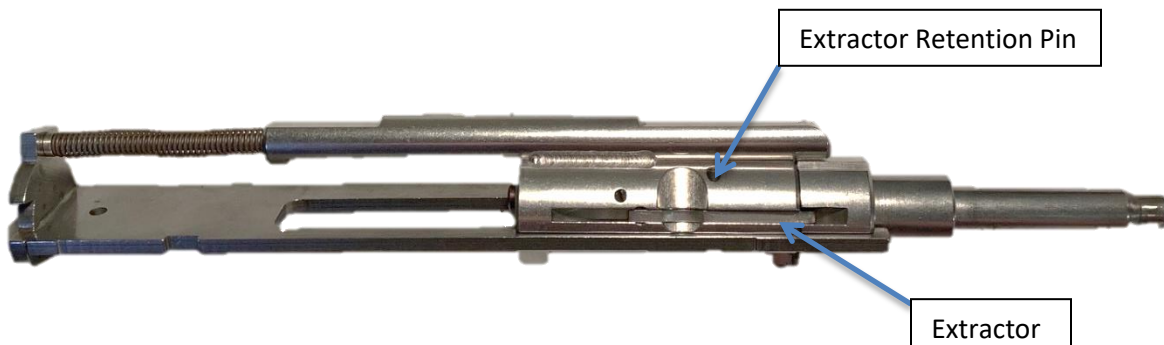


Figure 1.4 - Shows the location of the extractor retention pin and the extractor

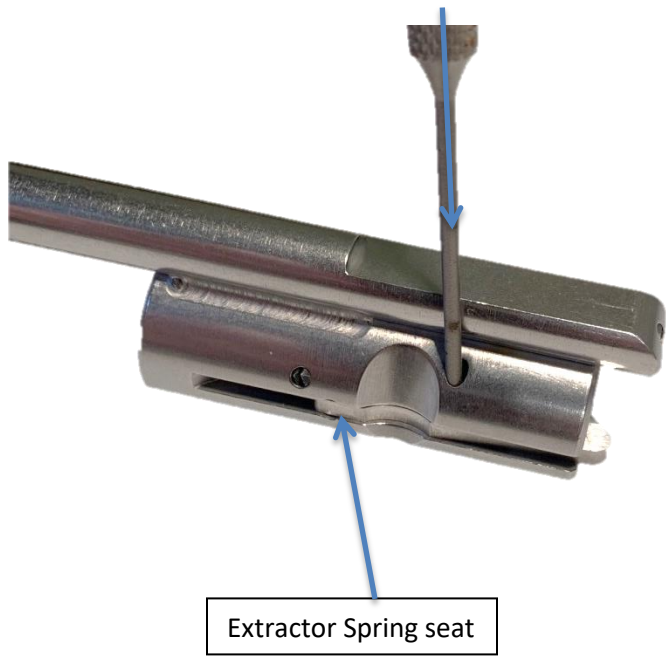


Figure 1.6- Shows the location of the extractor spring seat

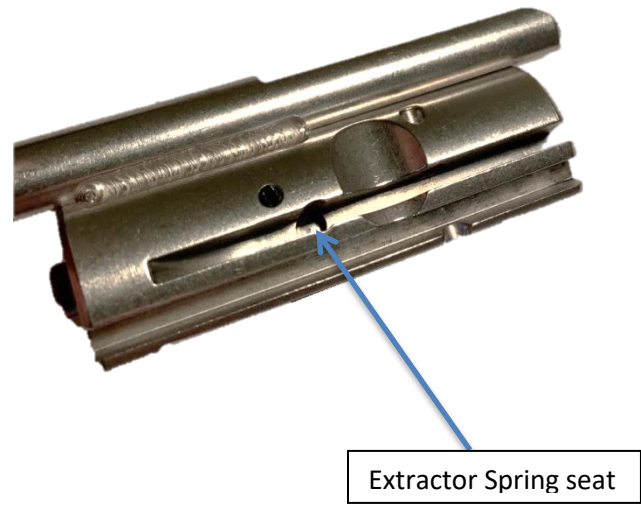


Figure 1.5 - Shows the location of the extractor spring seat

## 22lr AR Premium Firing Pin

### **What are Premium Firing Pins?**

BoreBuddy Premium Firing Pins are turned on a precision Swiss lathe from carefully selected high strength steel and then heat treated to our proprietary specifications. The back of the pin is profiled to center the hammer impact for longer firing pin life as well as reduced chance of out of battery detonations.



Figure 2.1 - BoreBuddy Premium Firing Pin

## Installing a Premium Firing Pin

. To install, remove the firing pin retainer pin, located in Figure 2.3. Once the pin is removed, the firing pin will fall free from the assembly. The firing pin spring may also fall free, or it may have to be pushed out. A stuck spring can usually be dislodged by tapping the back of the bolt group on a flat surface or inserting a pick or similar small diameter object through the firing pin hole and pushing it out towards the rear of the bolt. It can also be fished out from the back in a similar manner. Check to ensure the firing pin channel is clear of debris and fouling before installation. Place the spring on the end of the Premium Firing Pin, as shown in Figure 2.5 (Located on the following page), and insert both into the bolt and replace the retaining pin. To insert the retaining pin, you will need to compress the firing pin and rotate the firing pin until you can see an unobstructed hole through the retaining pin slot.

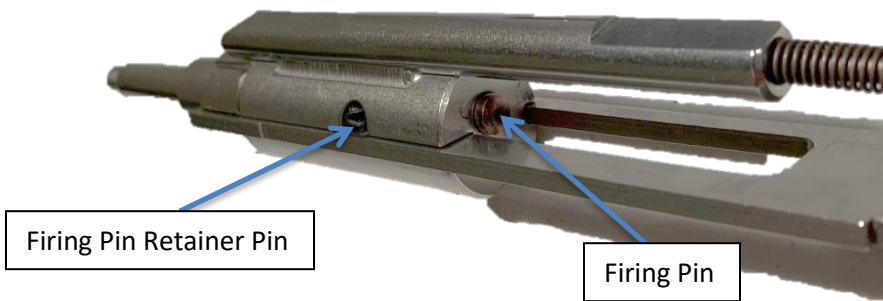


Figure 2.3 - Shows the locations of the Firing pin and Retainer Pin

## 22lr Firing Pins

### BoreBuddy 22lr Firing Pins

There are two types of springs: a stock stiffness and a heavier spring. We recommend a heavier spring.



Figure 2.4 - BoreBuddy set of 22lr Firing Pins

## Installing Firing Pin Springs

To install, remove the firing pin retainer pin, located in Figure 2.6. Once the pin is removed, the firing pin will fall free from the assembly. The old firing pin spring may also fall free, or it may have to be pushed out. A stuck spring can usually be dislodged by tapping the back of the bolt group on a flat surface or inserting a pick or similar small diameter object through the firing pin hole and pushing it out towards the rear of the bolt. It can also be fished out from the back in a similar manner. Check to ensure the firing pin channel is clear of debris and fouling before installation. Place the new spring on the end of the firing pin, as shown in Figure 2.4, and insert both into the bolt and replace the retaining pin. To insert the retaining pin, you will need to compress the firing pin and rotate the firing pin until you can see an unobstructed hole through the retaining pin slot.

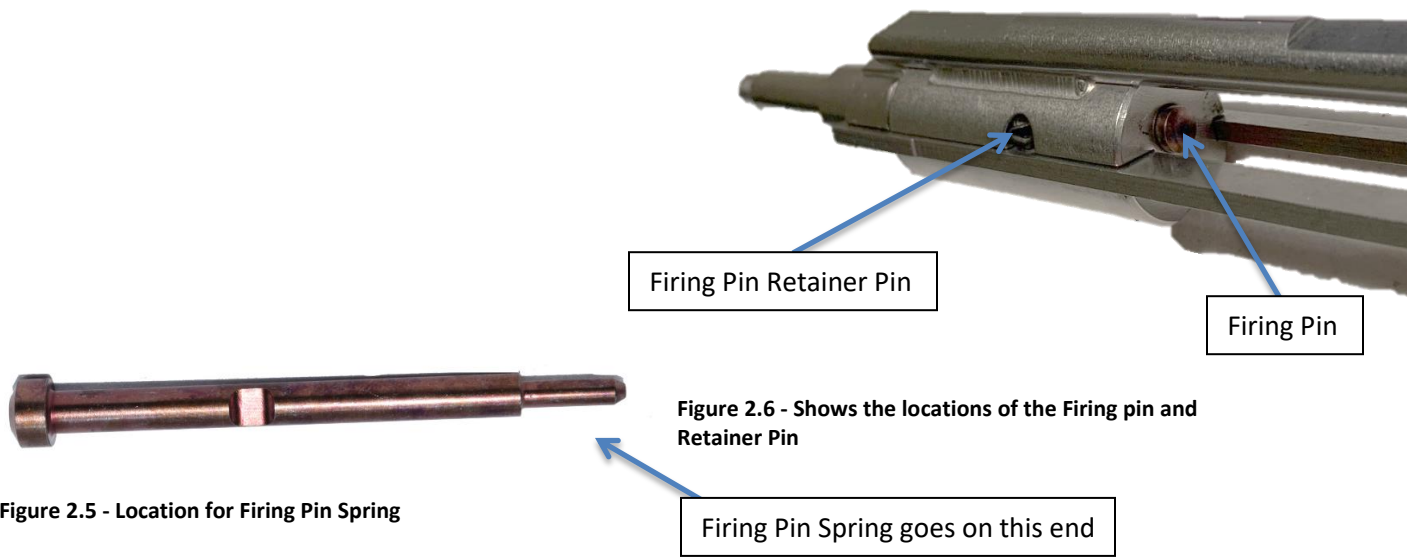


Figure 2.5 - Location for Firing Pin Spring

## Contact Us

Thank you for your purchase of the BoreBuddy AR-15 22lr reliability components! Should you have any questions please visit our website ([BoreBuddy.com](http://BoreBuddy.com)) and check the frequently asked questions. Feel free to join the forums and interact with the community ([forums.borebuddy.com](http://forums.borebuddy.com)). If you need to contact us directly, click the “Contact Us” tab at the top of the home page on the website.

For wholesale inquiries or bulk order for clubs, organizations, or law enforcement agencies, please email [Sales@BoreBuddy.com](mailto:Sales@BoreBuddy.com) or contact us by our contact form.