



# RIMFIRE PERFECTED

## AR-15 22lr Bolt Weight

### Instructions for Installation and Use



Figure 1.1 - BoreBuddy Stainless Steel Bolt Weight



Figure 1.2 - BoreBuddy Gen 3 Adjustable Bolt Weight

**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 by 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.

### Bolt Weight (Stainless Steel and Gen3 Adjustable)

#### **What does a Bolt Weight do?**

Our 22lr AR bolt weight system reduces bolt velocity, delaying case ejection and reducing the volume of gas and powder residue released from the ejection port, while eliminating the infamous 22lr AR bolt bounce. The bolt weight engages our bolt buffer at the rear of the BCG, further reducing noise and harshness for a truly refined and reliable system. With a weight, your rifle stays much cleaner, as well.



Figure 1.3 - BoreBuddy Stainless Steel Bolt Weight and a bolt carrier group. This is the proper orientation of the weight

#### **Installing a Bolt Weight**

The bolt weight assembly slips under the spring shroud and the notch on the back of the bolt engages the notch on the spring shroud. There may be some play in the bolt weight fit due to variations in the bolt assembly, but this will not harm the performance of the bolt weight. See Figures 1.3 and 1.4 for orientation of the weight before and after installation. Some users find it easier to depress the firing pin by hand and slide the weight directly in, while others find it easier to put the front of the weight in place and then rotate the back of the weight under the shroud until the notch is engaged. The bolt weight should be sitting in the BCG as shown in Figure 1.4.



Figure 1.4 – BoreBuddy Stainless Steel Bolt Weight installed and positioned correctly

### Adjusting the Weight on Gen 3 Adjustable Bolt Weight

**WARNING: Add weight slowly and test to ensure 100% hammer reset and bolt lock back (if equipped) is achieved by loading a single round in the magazine and firing before choosing that weight. If bolt lock back is not achieved, reduce the bolt weight. Observe all safety measures and only discharge a weapon when and where safe and legal to do so.**

The adjustable bolt weight comes with internal weights made from aluminum, steel, and tungsten which are used to adjust the weight from 1.3oz to 2.75oz. To change the weight unscrew the two screws on the back side of the bolt weight and place desired weights in. The most common configurations are as follows:

Weight (empty): 1.3oz

Weight with aluminum inserts: 1.5oz

Weight with stainless steel inserts: 1.9oz

Weight with tungsten inserts: 2.75oz



**Figure 1.5 - BoreBuddy Gen 3 Adjustable Bolt Weight Kit**

Mixing and matching material types gives additional variability. Tune the weight system by starting with the weight in a low-weight configuration and adding weight until performance of the system is optimized. Note that the two small weights are the same weight as one large weight of the same material. We suggest the following starting points for the following two barrel lengths and ammo combinations:

**4.5" barrel:**

**Subsonic:** empty weight

**High velocity:** empty weight or weight with aluminum inserts

**Hyper velocity:** weight with aluminum or steel inserts

**16" or longer barrel:**

**Subsonic:** weight with aluminum or steel inserts

**High velocity:** weight with steel or tungsten inserts

**Hyper velocity:** weight with tungsten inserts

For example, if using high velocity ammo in a 16" barrel, start with 4 steel weights installed. If the bolt does not lock back, drop the weight one material type (from all steel to all aluminum in this case). If more weight is required, replace one small steel weight with a tungsten weight. If still more weight is required, replace a large steel weight with tungsten, and re-install both steel small weights. If more weight is required, replace one small weight with tungsten, and so on. One large weight is equivalent in weight to two small weights of the same material. Ensure that each hole always is either completely empty or contains two weights, do

not install only one weight. Installation of only one weight will result in decreased performance or damage to the tungsten weights.

Once you have determined which internal weight combination is optimal, **we advise using blue Loctite on both screws** and allowing 1-2 days for full curing before using the weight. Failure to use Loctite may result in the screws backing out during use. Check the screws and backplate to ensure they are tight periodically.

### **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) and check the frequently asked questions. Feel free to join the forums and interact with the community (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 or contact us by our contact form.