

Choosing the right gun for your needs isn't the only important thing when it comes to hunting, although it is critical. It's equally important to pay attention to the right hunting ammunition. These two combined represent the key to easier shooting. Of course, you could also search for the best AR-15 scopes, but the bullet you choose is paramount – as it is the one that does all the work. This is why we advise you to consider the following tips when choosing hunting ammunition so that you can get the results you want each time you aim at a target.

### **Factor in Rules & Regulations**

Presumably, this is the most important consideration, since there are different rules and regulations in each state. For example, there are specific shotgun and rifles zones depending on the area. Meanwhile, there are areas in which the law allows you to use both, whereas others are limited to shotguns only. This is why it's always a good idea to check with the Department of Natural Resources in your state to get acquainted with everything you should know in this respect.

### **Shooting Long Distance**

The type of shooting plays a key part in the equation. Now, let's say that you intend to shoot long distance. In this situation, the best type of gun for the job would be a rifle. Choosing the right type of ammo will also allow you to enhance your long-range shooting – so bear this in mind. The best part about a rifle is that it facilitates maximum distance shot.



At the same time, as rule of thumb, when you use a rifle, it's worth noting that the higher the caliber of the rifle, the bigger the bullet. On that account, some of the most frequently used rifle calibers for hunting whitetail deer are: .243, .270, .300, 25-06, 30-30, .308, 30-06, and .7mm. Of course, you should be 100% confident that the caliber of the ammo is compatible with your gun. Afterward, you should assess the weight of the bullet.

Generally speaking, heavier bullets optimize the accuracy downrange. At the same time, they maintain velocity. Meanwhile, lighter bullets tend to travel faster. A denser target will most likely require a bullet that can penetrate deeply – in this case, a heavier bullet might be the right choice.

With that in mind, even if a light bullet creates more expansion since it travels at great speed, the penetration it offers is limited. On the other hand, a heavier bullet travels slower, meaning that the expansion will be less violent. This is important for optimizing penetration.

### **What Do You Plan to Hunt?**

There's no such thing as ammunition you can use for hunting basically anything. Since you want to kill the animal humanely, you need to pick the ammo accordingly. You should kill the animal in a humane and quick way. In case you want to use the meat of the game animal afterward, you should be careful not to damage it.

If the ammunition is too powerful, then the meat of the animal you're hunting will be shattered. Hence, there's no use in killing the animal from the beginning, unless we're talking about pest species. Now, let's say that the animal is to be turned into a trophy. Once again, the ammunition shouldn't damage the hide.

### **Shooting Ground Animals**

The category of ground animals includes cottontail rabbits, squirrels, and others that are more than ideal for stews, and combined with rice. Hunting these little animals can be thrilling, not to mention that it is an excellent way of teaching children to hunt safely. Usually, when hunting ground animals, the range shouldn't be over twenty yards. A well-placed .22 LR will do the trick in most cases.

### **The Shape**

Did you know that the shape of the bullet is important when it comes to hunting? Usually, long and sleek projectiles featuring high ballistic coefficient ratings preserve energy more efficiently in comparison to round-nose or even flat-nose bullets. And the thing is that if you don't choose the right bullet shape, this will diminish the energy to air drag.

### **Your Hunting Style**

It is crystal clear that your style of shooting matters just as well. Let's say that you're an experienced, patient shooter who takes his/her time each time after spotting a target. In this scenario, a soft bullet will do a good job. Meanwhile, if you usually punch through a shoulder, then you might want to go for a harder bullet.

On the other hand, if you usually don't shoot farther than 250 yards, high velocity or high B.C doesn't matter as much as it is the case for long-range shooting. Let's say that you plan on shooting 300 yards or more. In this case, bullet B.C and velocity become paramount. The thing is that when you limit your range, you will also diminish your selection of bullets. So, you have to take your time and know exactly how you plan on using the ammunition.

On a different note, the angle of the shot will also make the world of

# How to Choose Hunting Ammunition

By Jay Chambers

Photos from: pixabay.com



a difference in the efficacy of the shot. For instance, a soft cup-and-core bullet traveling at a high impact speed won't be the best choice for plowing through a major bone or muscle. The thing is that there's no such thing as a bullet that works on all occasions – it might come close, but that's about it.

## Final Thoughts

The safest way in which you can enhance the accuracy of your rifle is by investing in the right ammunition. And since there's no safe way of being 100 percent sure that the ammunition is perfect for your intended use, it's best to test different types prior to committing to a given product. The key is to test various products – see how confident you feel when shooting, if the ammo is right for your intended use or not, so on and so forth.

We could say that shopping for ammunition is similar to shopping for a gun since the marketplace offers numerous options to choose from. And it's up to you to make a sensible decision after testing different alternatives. ©



# LIBERTY LUBRICANTS' 3

By Brian Hamilton, Riley Goff (16), KJ Dullanty (16), Brody Loftin (13), Kaden Barney (16), Caleb Hamilton (16), Tristan Woodbury (17)

Brian

A year ago, I heard about the Liberty Lubricants Team 3-Gun Match and offered up my and my son's help to Aaron Goodfellow for the match. The day of the match, Aaron asked if Caleb could shoot the match because a team was down one person. Caleb was happy to jump in and give it a try. Not knowing what the match really was, I went with him to help coach. I will say I had never seen anything like it. It was truly so much fun watching all the teams and coaching. I'll bet we were only two stages in on the first day when I could not stop asking myself, "Why was I not shooting this?"

One year later, Caleb and I were back at the Liberty Lubricants Team Match, but this time we were there with two *Junior Shooters'* teams and a team of my own. Friday, we showed up early and helped set up. With the help of the juniors and others, we all were able to set up the stages in record time. Saturday was day one of the match and the fun began. We did get off to a bit of a rocky start as most of the juniors were not used to what the team match had in store. When you have a three-person team, either shooting at the same time or running a relay, it tends to make you step back and say "what?" That is what I think they are shooting for at this match, head-turning, on-the-edge-of-your-seat, fun! I am proud of the juniors as they all stepped up, communicated with their team, navigated the stages, and had a great time. I know one thing for sure, this is a match you don't want to skip out on. I know *Junior Shooters'* is already planning showing up again next year for the fun.

I would like to thank all the hard workers that helped set up the match and put everything away. Also, thank you to all the RO's and to the sponsors. This was so much fun!

- Liberty Lubricant
- Odin works
- Armscor and Rock Island
- Safariland
- MASP Industries
- HAWKTECH Arms
- Rocky Mountain reloading
- ACCU - Tac
- HEXMAG
- Sentry Products Group

Tristan



The Liberty Lubricants Match held at Parma Rod and Gun Club was my second partner 3-Gun match competition. The match was created to

be fun, not competitive, which they definitely followed through with. They had very few rules and having fun was one of them. The match, for my team, started out rough, but did get way better by the end of the match. Straight out of the gate, on the first stage, two of our three AR's malfunctioned. Then, the pistol carbine malfunctioned on the same stage. Also, a charging handle snapped off one of the shotguns. I'm sure I'm missing one more. I just don't remember because there were so many.

After that first stage, the problems reduced to one or two minor problems every few stages. During that first stage, I had issues of trying to go too fast and not staying calm. I finally managed to figure out how to slow down. The last stage was my best stage because I managed to spin the spinner faster than most of the guys in my squad. My only flaw was I forgot a target and had to go back to it.

To top off the already great match, they had one of the best prize tables I've seen. There was a shotgun from Rock Island Armory, there was also a full AR upper from ODIN Works, and a whole lot more on the table. I managed to get an M-LOK handguard from Barnes Precision worth more than \$300. Overall, the match was extremely enjoyable and they did a great job.

Tristan



# -GUN TEAM MATCH 2019

Brody



The team match was a very aggressive competition for all ages for 3-Gun Match. The "Shoot House" was the hardest of the stages that we did the first day. That stage had too much stuff to remember and you had to be accurate about what to shoot first. My favorite stage was "The Trenches" in which my team received an excellent time. The easiest stage was probably stage 2. I used the PCC, KJ used the shotgun, and Tristan was shooting the long-range targets. There were 39 more teams to go against, but with this team being our first match together, we chose to have fun first, though above all safety comes first. At the end of the match, there were wonderful prizes for all participants. I would like to give special thanks to Liberty Lubricants, Rocky Mountain Reloading and all of the other sponsors who made this match possible.



**Below: Brody showing fantastic form as he fires on the move using off-set sights on the no-shoot targets.**



**Tristan showing perfect form with finger off the trigger as he moves through the stage with a Sig Sauer MPX-9mm.**



Riley



Riley



We spent three days at the Parma Gun Range. The first day, September 13, we spent setting up stages. Our group set up stages 2 and 3, and then helped with others. This was a lot of fun and a great experience. Then, we all went home, prepped for the next day, and got some good and needed rest.

The next day we got there early and had a match meeting where we learned the first stage we were going to shoot. We started on stage 4, or "The House." Each person in our group ran "The House" once and had to run out and tag the next teammate. The team I was in happened to be able to finish without timing out and we were happy about it since it was the first stage. Then, we were off to the second stage which was stage 5 or "The Trenches." On this stage, I was shooting Pistol Caliber Carbine (PCC), Caleb Hamilton was running shotgun, and Kaden Barney was shooting the rifle. The stage went over well. We definitely got all of the bugs out on the first stage.

Next, was stage 6. Kaden and I ran both shotguns and rifle, and Caleb shot PCC. We moved from shotgun to rifle and I felt the stage went pretty well. Stage 7 was the "Roof Stage." We all started in a huddle, touching the roof platform. We split, Caleb running to shoot PCC and Kaden to shotgun, and I grabbed my AR. I had to shoot off of the roof platform. This stage went well. The last stage of the day was stage 8. We changed things around to make it more interesting with Kaden shooting the PCC, Caleb with the rifle, and I ended the day with a shotgun. The first day went really well. We all went home, cleaned our guns, and got another really good night of sleep.

On day two, we started on stage 1, the "Trailer Stage" with Kaden and I shooting the PCC. Shooting off of a moving trailer at 10 mph was surprisingly harder than it sounds. Then, we all jumped off and Kaden ran shotgun, I ran rifle, and Caleb shot bonus targets. Then, off to stage 2, "The Rock." We all started by touching a big rock. I ran to PCC, Caleb ran to shotgun, and Kaden took off to rifle. After that, Caleb and I ran to long-range bonus targets shooting 900, 700, and 500 yards. The last stage of the day and the match was stage 3. On the last stage, Caleb shot PCC, then ran to me on the shotgun part of the stage, then I took off to Kaden who was shooting the rifle. After the last shooters, we tore down and went off to the awards. Caleb, Kaden and I were able to snag High Junior. I would like to thank Liberty Lubricants and the other sponsors for putting on such an awesome match. Thank you very much!

Riley



# LIBERTY LUBRICANTS' 3

Riley



*Riley mowing down the shotgun targets.*



KJ



Recently, I have been part of Junior Shooters shooting team. While working with the team, I had the opportunity to participate in the Liberty Lubricants 3-Gun Team Match. This team match was my favorite out of all of the matches I have participated in, even more so than the very popular High Desert 3-Gun as it was the definition of “controlled chaos.” What made this match so much better than the other matches were, in my opinion, two main things; the stages and the freedom to shoot how you wanted.

The stages were a sight to behold and a nice challenge to exhaust myself in. Unique stages like the all-terrain stage presented a fun challenge of trying to locate all of the required targets to shoot in thick grass. Other stages like the “Truck/Trailer Stage” gave the shooter a fun 10-second ride of their life as they tried to shoot from a moving trailer. The other part of the team match that was an absolute joy was the ability to shoot how we wanted.

Because there were three competitors on each team, each participant was able to switch between which weapon they were using at each stage. On top of this, shooters were allowed to use virtually anything they had. This could be anything from tripods, to a wide range of optics, to a PCC, or even the very cool VR80. And, if that wasn’t enough, all shooters could have as many guns as they wanted staged and with them. This was especially awesome for me being the “shotgun guy” as I got to transition to different shotguns almost seamlessly without having to reload which allowed me to hit my targets more efficiently. Overall, the Liberty Lubricants Team Match at Parma Rod and Gun was amazing in my opinion and I would recommend it to anyone who is considering going next year.



KJ

# -GUN TEAM MATCH 2019



*KJ with the Mossberg 930 JM Pro 12-gauge shotgun, our preferred 3-Gun shotgun.*

Caleb



Last year, my dad and I went to the Liberty Lubricants 3-Person 3-Gun Team Match with the intentions of just helping out. After getting to the match, I was asked to fill in on a junior team and had a great time. We were awarded the High Junior prize for the match. This year, I went back to the match with my friends and fellow junior members to compete again. Kaden Barney, Riley Goff and I worked together to strategize each stage. The stages were set up as either all three of us shooting at the same time or a relay just to mix things up a bit. My favorite stage was the long-range stage which was a melee stage. Riley was shooting long range, Kaden was shooting PCC, and I was on the shotgun. This stage allowed us to help out other team members if you had finished your portion first. This worked out well for us because as soon as I finished the shotgun portion, I ran over and helped Riley on the bonus steel and long-range targets. Some of the most important things about having three people on the firing line shooting at the same time are safety and communication. There were 10 stages put together in record time due to all the great help we had. I would have to say this is one of the most fun matches you could ever imagine.



Caleb

Caleb on the Sig Sauer MPX 9mm Pistol Caliber Carbine (PCC).



Caleb

# LIBERTY LUBRICANTS' 3

Kaden



Hi, my name is Kaden Barney and on Friday, September 13, a couple of groups from the Junior Shooters program shot the Liberty Lubricants Parma 3-Gun Team Match. The groups were Caleb, Riley and me, and the other Junior Shooters group was KJ, Brody and Tristan. This match was a three-day event for us. We helped set up the targets on Friday and shot the match on Saturday and Sunday. We shot five stages on Saturday and three stages on Sunday.

On Friday, we all went to Parma to help set up the team match. We split up into four teams of around 10-12 people to set up two of the eight stages. One person was given the stage description so we could get the stage set up right. Our team was instructed to set up stages two and three. Riley and I got side by side to get targets to bring to the stages. We had to make multiple trips back and forth to keep getting targets. We had a couple of trucks with us that also helped pick up targets. When we got all the targets to stage two, it took us about 3-4 hours to set up that stage. We got about halfway through the 3rd stage when we all went to the lunch building and ate lunch. About 30 minutes later, we got back to work setting up our last stage. That took us about two hours and then we finished setting up that stage. When everyone was done setting up all eight stages, it was around 3 p.m. and we gathered around the first stage to go through all the stage descriptions. Then, we headed home excited about the shoot on Saturday!

The day of the shoot, Riley, Caleb, and I got to Parma around 7 a.m. We were

Kaden

***Kaden reloading on the short rifle range.  
Note the clay pigeon inside the white  
silhouette - the target to hit.***



**3-GUN TEAM MATCH 2019**



excited! The match coordinators split us into our squads and we went to our first stage. Our group started on stage 4 which is the "Shoot House." The "Shoot House" was a relay stage which is when one person goes through the stage and finishes, then runs to tag another teammate so he can run through the stage. The team has 600 seconds to go through all of the people and hit all of the targets in the stage. We were able to use a variety of calibers on this stage; our group used 6.5 Creedmoor, .223, 9mm, and a 12-gauge to complete this stage. For part of the stage, we all had one target to shoot while running the stage, and if we didn't hit the right target at the right time, we would get penalties. There was a bonus spinner at 300 yards. Because it was a bonus target, we were not required to hit it, but every time we did, we got a 15-second bonus per hit. We got done with that stage and went to the next which was stage 5. After reviewing the stage description, we got on with shooting!

Our next stage was the "Melee Stage." The "Melee Stage" is when all three shooters are at different areas of the stage. There were three bays for this one stage. When one person finishes their part of the stage, they can go help another teammate safely. Caleb was on the pistol, Riley was on shotgun, and I was on the AR. For my part, I had the spinners, plate racks, paper targets and the "Know Your Limits" target. The "Know Your Limits" target is a bunch of targets from bigger to smaller and I had to hit them twice per target. Caleb had to shoot paper, steel, plate racks, statics, and knockdown targets. Riley's part was knockdowns and the "Texas Star." The "Texas Star" target has six smaller targets that spin around while shooting and a man knockdown target. The man knockdown shoots a clay pigeon in the air once you knock down the steel man part of the target.

Sunday, September 15, was the final round of the match. When we got done shooting the last three stages, we went to lunch to take a break from the sun for a while. After lunch, it was time to start taking down the stages so the participants could receive their times and prizes. When we got all the stages torn

# LIBERTY LUBRICANTS 3-GUN

down, we gathered around the main shooting bay. Aaron Goodfellow, the President of the Parma Rod and Gun Club, who also works at ODIN Works, got laser-engraved Ozark cups to hand out to some of the teams. These teams included the High Ladies Team and the High Juniors Team for first, second and third place. Riley, Caleb and I received the High Junior Cup and I was really happy that we were able to win one. Then, the lottery started after they gave out the cups. The first ticket called won a brand new VR80 shotgun. I was not lucky enough to get it, but I did get three Hexmag .223 mags and a scope cleaning kit.

My favorite stages were stages 1, 2 and 3, and my least favorite stage was stage 8, the "All-Terrain Stage." Stage 2 was a long-range melee stage where I shot the rifle, Riley shot the PCC, and Caleb shot a shotgun. Stage 3 was a relay stage where the PCC was the first to go, then the shotgun, and the rifle last. Caleb shot the PCC, Riley shot the shotgun, and I shot the rifle. I was able to stage multiple guns on that bay for the bonuses at the end of the stage. I had two 6.5 Creedmoors staged, one set for 550 yards and one set for 800 yards. Stage 1 was by far my favorite because we all had a PCC on the start as we were shooting off of a moving trailer going 10 mph at some statics. It was not easy to hit the statics, but it was still fun. My least favorite stage would be stage 8 because a lot of the targets were hiding behind bushes and some of the bushes had spiky stuff on them, so it hurt running the stage.

All in all, I had a lot of fun shooting the Liberty Lubricants Parma 3-Gun Team Match. It was a really good experience as a Junior Shooter. To be able to attend one of the big matches with my friends and shoot alongside with well-known shooters was a great experience! I'm really looking forward to shooting more matches like this in the future. ☺

Kaden



Ashbury Precision Ordnance  
Saber M70 0 6.5 Creedmoor  
with Leupold Mk IV scope.

# GUN TEAM MATCH 2019

MGM Targets are  
AWESOME!



# More to It than You Think

By Serena Juchnowaki



*Pre-primed .223 cases prior to being trimmed and chamfered*



*I used a Gracey trimmer to trim and chamfer the cases prior to loading.*



*It is important to calibrate the scale before use.*



*I prefer a powder dish with a funnel (left) to avoid powder spillage.*

Reloading – competitive shooters know that it is not just an option, but a necessity. It is cheaper to reload than to buy factory ammunition, not to mention often more accurate and tailored to a competitor's specific rifle. The application and goals make a significant difference in the reloading process. Service rifle reloading is not as precise as loading for other disciplines such as Palma, but there is still much more involved than people realize. Though I am just learning how to reload on my own, I find it funny that many people outside the shooting community do not even realize that it is possible to make your own ammunition.

With guidance from my dad, Chuck Malone, and Eric Eilberg, an Ohio junior coach, and some equipment from RCBS, I recently embarked on my own reloading adventure. Starting off simple, I left brass preparation out of the equation for the time being, opting to use some pre-primed Wolf .223 brass that my dad had on hand. The next thing I needed to do was to chamfer each case. Placing fifty pieces of brass in the loading block, I inserted cases one by one in the end of a trimmer (which chamfered as well) and placed them upside down when I had finished back in the loading block. After chamfering and trimming the case and before putting it back in the block, I would lightly tap each case, neck side down, on a flat surface to knock out any brass shavings.

Next I moved over to my newly established reloading bench where I had my RCBS Chargemaster Combo set up. I learned from my dad that it is best to leave it plugged in and on whether you are loading or not. I calibrated the scale and to double check I poured the powder I had measured into the zeroed dish on my dad's scale. The amounts matched.

One nice thing about the Chargemaster Combo is that I could enter the amount of powder I desired, hit enter, and have each charge automatically dispense every time I placed the zeroed dish back on the scale. The Chargemaster came with a metal dish, but I purchased a small black dish with a funnel. I



*I zeroed the scale with the powder dish before measuring each charge.*



*The RCBS Chargemaster Combo would dispense powder automatically when I replaced the powder dish that I had previously zeroed.*



*I was careful not to spill any powder before loading the case.*



*Filling a case with powder.*



**80.5 Grain Berger Bullets.**

much prefer the powder dish with funnel as I can pour the powder into each case without fear of spillage. I use the original dish for excess granules of powder. On rare occasion, the machine would dispense slightly more than I desired because of the extruded powder I was using. I would then play a game of trading granules between the two dishes until I attained the correct amount.

I would load one case with powder at a time. While the next measurement dispensed I would move over to



**I used a bullet comparator to measure the ogive.**



**RCBS Rock Chucker Supreme Press**



**Twenty finished rounds in the loading block.**



**Seating bullets on the RCBS Rock Chucker Supreme Press with a .223 Gold Medal Seating Die.**

seating the bullet. Rather than have my press attached to a bench, I was thrilled with the mobile set-up my dad crafted. It allowed me to move the press to one side of my work station without the up and down of the press handle disrupting the powder measure. The RCBS Rock Chucker Supreme Reloading Press is a classic piece of equipment. I had to borrow a shell holder from my dad but I absolutely fell in love with the RCBS Gold Medal Seating Die the first time I used it. I had helped my dad with some reloading before, but I never really had the confidence to do it myself and was always doing just one step so I did not understand the intricacies of the process. One major issue I always had was balancing the bullet in the case while I seated it. The Gold Medal Seating Die eliminated this. I would set the seating depth from a dial on the top, labeled so I could repeat the same for different loads. Next I would drop a bullet, in this case 80.5 grain Berger bullets, into the die, place the cartridge in the shell holder, and pull the press handle down to seat the bullet. I did have several casualties when I first started, not lining up the case in the shell holder properly which smashed part of the case neck. I had to pull those bullets, salvage the powder, and discard the case. One thing to be careful of is to not accidentally put two bullets in the die at one time. It sounds difficult to do but if one puts

a bullet into the die, gets distracted and forgets, it is easy to put another in which jams the die.

I was loading 600-yard ammunition in this session so after seating the bullet I checked the ogive, desiring a measurement of 2.960. I had to borrow my dad's comparator and dial calipers for this stage. If it was above 2.960, I would turn the die clockwise and run the bullet through the press again, then measure again. After loading all of the cases I had prepared, or in this case, only chamfered and trimmed, I ran each through a case gauge.

While it can be tedious at times I really enjoy the independence reloading gives me. Having some of my own equipment makes all the difference for me as I can keep it as I want and not disrupt another's set-up. I still have to borrow a good many things from my dad, which makes it harder to reload at the same time, but having my own press and powder measure has helped me to become more confident and to understand more about the reloading process. I am very grateful that my dad has reloaded for me for so many years but the feeling of not having to depend on another for ammo is unmatched. I am very excited to learn more and hope to one day have all my own equipment so dad doesn't wonder where some of his has temporarily vanished to. ©



**The RCBS Gold Medal Seating Die made seating bullets so much easier—I did not have to worry about dropping the bullet trying to hold it.**



**Putting the pins in the lower receiver.**



**Installing the buffer spring in the buffer tube.**



**Completing upper less the bolt carrier group.**



**Installing the trigger and hammer group.**



**Installing the bolt carrier group which should be oiled before installation.**



**Installing the WARNE RAMP scope mount specifically built for MSR rifles and competition.**



**Installing the trigger and hammer group 2.**



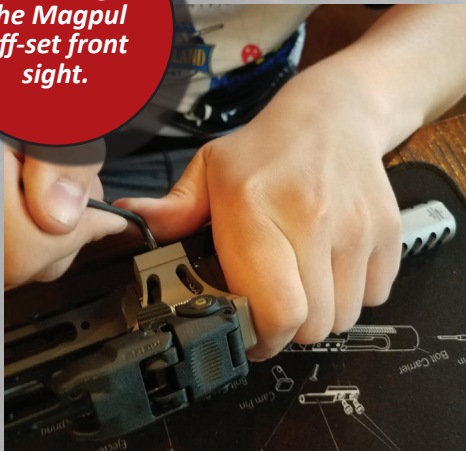
**Putting on the muzzle brake (compensator).**



**Tightening the rings on the mount after installing the Bushnell scope.**



**Starting the grip installation**



**Installing the Magpul off-set front sight.**



**Putting the lower and upper together.**

# Building My First MSR 3-Gun Rifle



By Kaden Barney (16)

I completed my first ever gun build on my own AR-15 for my 3-gun matches and it was so rewarding. My dad bought an Anderson Manufacturing lower (the basic lower receiver has the serial number and must be purchased through a gun dealer by an adult who goes through a back-ground check) and build kit for a Modern Sporting Rifle (MSR). The kit came with all the lower parts like the trigger guard, trigger, safety, buffer tube spring and the pivot pins.

I started with the trigger guard as my first step assembling the lower portion of the MSR. There are two main assemblies for an MSR, the lower and the upper. It was only three pieces to assemble. A trigger-guard, roll pin and a screw. Putting the trigger guard on was a little harder. Because the pivot pin was such a tight fit, we needed a C-clamp and a hammer to try to get the pivot pin in. Then there was a little screw to tighten the trigger-guard so it didn't move.

The second step was to assemble the bolt catch. This step was a little more complicated. I had to deal with a very small space to inset the pin without scratching the lower. I scratched it a little... but don't tell my dad!

The third step was to assemble the trigger. There are 3 pieces to the trigger assembly. The hammer,

trigger and the disconnecter. This step was self-explanatory. I attached the spring to the trigger then I inset the trigger into the manufactured hole. Then I took the disconnecter and lined it up and inserted the trigger pin, then I assembled the hammer and inserted the hammer pin.

The fourth step was the magazine catch assembly. This step was not bad. I put the release button on top and started threading in the magazine catch. I had to push down on the magazine release and tighten the magazine catch a couple more times.

The fifth step was to put the pivot pin and take down pin in so you can attach the upper and the lower together. The pivot pin was relatively easy to put in and line up. The take down pin by the stock was not as easy because if you don't hold the spring down it will go flying. I would recommend you wear safety glasses while doing this step as I did not and should have. I did have one spring and pin go flying but I found it.

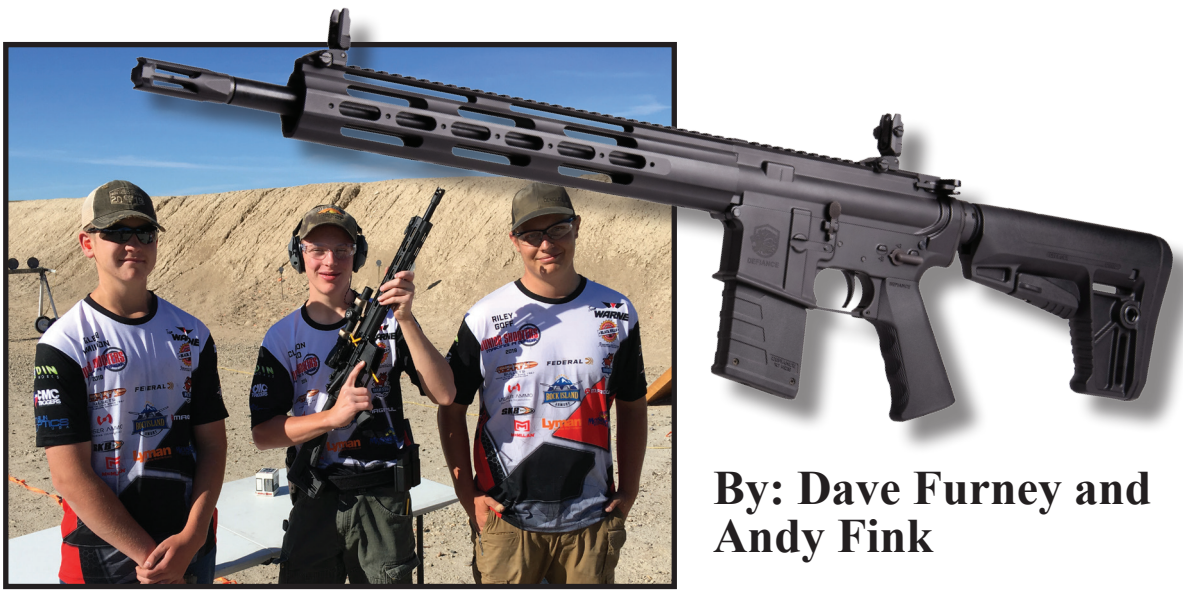
The sixth step is installing the buffer tube assembly. If you don't know what the buffer tube is, it is the part to close your bolt that the stock rides on. I needed to be super careful when putting the buffer tube on. As you are screwing down the buffer

tube, you need to push down on the buffer retainer and spring and finish screwing on the buffer tube to keep the retainer in place. At this time you need to install the detent and spring for the takedown pin. You hold in the end plate and hand-tighten the buffer tube castle nut then torque to specifications. If not, you will lose or bend that spring. Then install the buffer tube spring and buffer pushing hard past the detent.

And for the final step I needed to put the bolt in. I put oil on so the bolt slides freely. I then checked my work and ran through all the functions, the magazine release, safety and the trigger. I had a lot of fun building this MSR and learning how it is put together. In the future, if something breaks, I will know how to fix my gun. And before I end this article, here are some components we installed as part of the build. Seekins Precision Advanced tactical compensator, Nickel Boron Bolt carrier group, 18-inch Stainless steel barrel chambered in 223 WYLDE with 1/7 Twist, Magpul MOE Furniture, Warne Scope Mount, Bushnell 3x9 Scope and finally Magpul flip up sights that were installed on a Warne 45 degree off-set.

Stay tuned for my article written next month on how it shot at the range. ©

# KRISS DEFIANT .22LR



*Caleb, Clayson, and Riley.*

**By: Dave Furney and  
Andy Fink**



*Clayson had a ball  
shooting the Defiant.*

If you are looking for a good .22LR AR to practice, compete, plink, and shoot cheaply with, the KRISS Defiant is an outstanding choice. It has the weight, feel, and controls matching the AR pattern Modern Sporting Rifle (MSR). It takes standard MSR parts if you want to upgrade the trigger assembly, put on a B.A.D. lever from Magpul, an oversize trigger guard (also from Magpul), or other AR type components. If you want to swap barrels, it uses the Ruger 10/22 barrels. You could even put on a very light-weight carbon fiber barrel.

The gun ran great after the first 15-round magazine. It just needed a little breaking in, which is very common. We shot five more magazines in a one-on-one competition and all of the juniors testing the gun loved it. It kept knocking down the plates without a hitch. This is an awesome .22LR AR and is one of the best we have seen. They are not low-cost but you get what you pay for and this is a solid, well built, smooth functioning firearm.

We are very impressed with this outstanding .22LR. Three of older juniors tested it out, even competing one-on-one against each other. They loved it. We used Federal Auto Match ammunition which provided both excellent groups. The combination of the quality of the firearm and the ammunition functioned flawlessly and the juniors had a great time. ©



***Federal Auto  
Match was the  
perfect ammo  
for the Defiant  
to function  
flawlessly.***

# FEATURES:

## LAST ROUND BOLT LOCK AND CUSTOM BARRELS

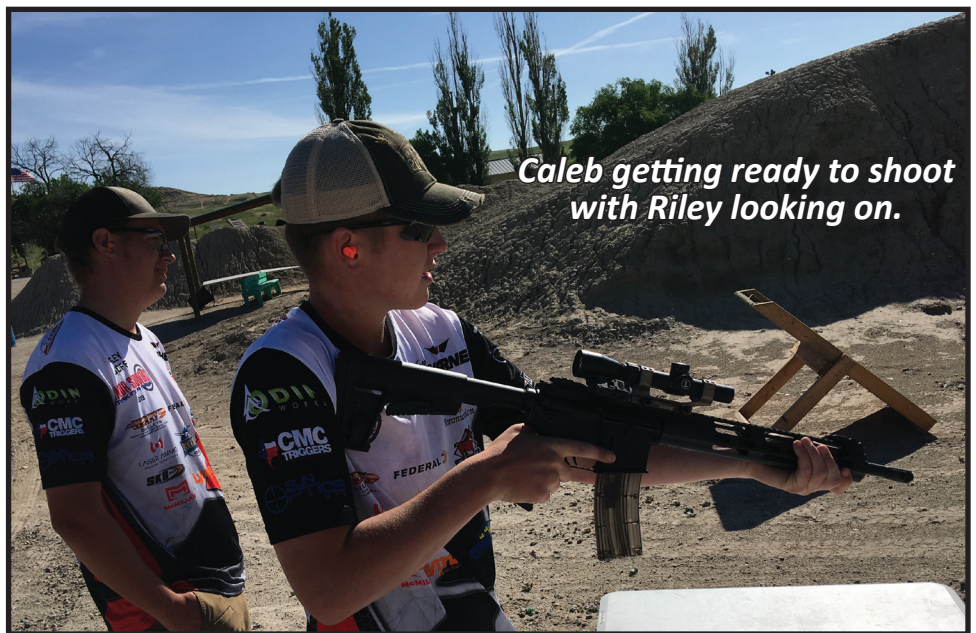
DESIGNED AS THE ULTIMATE AR TRAINING PLATFORM THE DMK22 FEATURES A TRUE LAST ROUND BOLT LOCK FEATURE.

THE PATENTED BARREL ADAPTER ALLOWS FOR THE INSTALLATION OF CURRENTLY AVAILABLE AFTERMARKET RUGER® 10/22 .22LR BARRELS.

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AR15 CONTROLS  
FROM THE CHARGING HANDLE TO THE TRIGGER PACK AND PISTOL GRIP, THE DMK22 IS DESIGNED TO ACCEPT MANY OF YOUR FAVORITE AR15 PARTS AND ACCESSORIES.



*Caleb getting ready to shoot with Riley looking on.*



*MGM targets make some of the best steel for competition, that are produced anywhere. This is the plate rack, on which the boys were competing.*



*Clayson on the left, Caleb on the right. Who is the first person to knock over 3 plates?*



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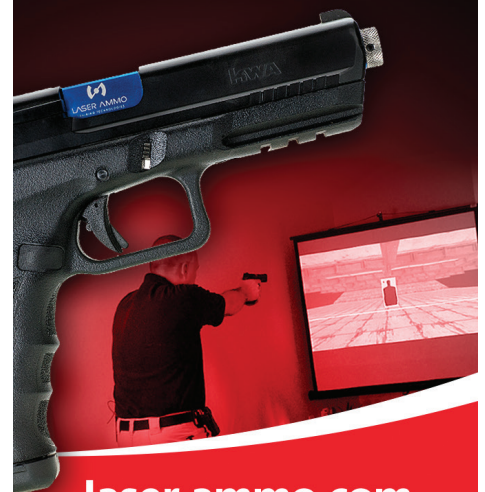
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HORIZONTAL

# GET PERSONAL



“Nothing like going a little crazy with a changeable design on your gun.” GunSkins have great benefits for the consumer, environmental blending without reflection, protecting your gun, makes your gun more personalized and is easy to install or remove product. I would like to show you how easy this product is to use. I am using the AR-15/M4 skin with a skull design. When you shop for the perfect skin for you, there are all types of designs for different rifles, pistols and accessories for your gun. It is best for you to take the rifle apart to smaller pieces for easier handling.

By: Brody Loftin (13)

## Step 1

### Clean the Gun Thoroughly

It is not required to strip your firearm, but cleaning your weapon is pertinent for the easy installation to begin. The most important thing you can do is preparing the surface by degreasing the gun. We do not recommend using rubbing alcohol alone, as this will not cut through gun oil. Make sure to be thorough in cleaning every area you intend to wrap. Use a small brush to ensure detail part areas, like ribs or texture, get properly cleaned. Wearing gloves will keep body oil off weapon.

Before you begin make sure you go to the website [youtube.com/gunskins](http://youtube.com/gunskins) and watch the video prior to any installation. Make sure you have a couple hours of uninterrupted time to complete your project. You will need to purchase the correct GunSkins for your product you will be covering, your weapon, you may also need: a sharp hobby knife, a heat gun (or hair dryer), a gun-specific degreaser, gloves and towel.

## Step 2

### Peel & Stick

Preheating the weapon area slightly prior to applying product make this process easier. Pay close attention to each section and where the template fits on weapon. The wonders start to happen when you use the heat gun to apply heat to the GunSkins. Doing this activates it and allows for greater flexibility and form. The vinyl will relax and take shape of whatever is on the surface. Press in with your fingers and bring out the detail on the butt stock receiver, for end, and barrel. The end is tricky because of the round shape at the front end.

To achieve a wrinkle-free for end, middle piece along the bottom and work you're way outward, creating tension as you heat the material and pull tightly. When you get to the front, it will require more heat and pulling as you work the material outward along the round edges, working away wrinkles outward as you go. Wrinkles are caused by an excess of material and not enough surfaces to lay it on.



# Step 3

## Trim Excess Material

Every rifle is unique and will require trimming away of the material to make fit your specific model. GunSkins have tried their best to design each template to cover as much surface area as possible, because it's better to trim away excess material than to come up short.

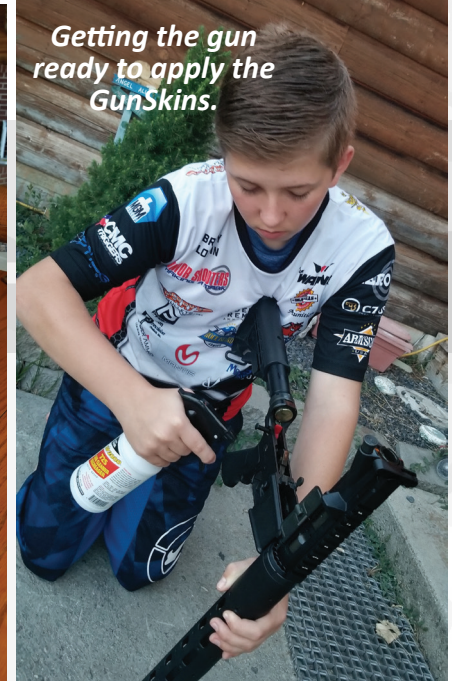
# Step 4

## Heating things up

During the repetitive installation process of peeling, placing, and trimming, it's true heat that helps the material to conform around edges and difficult corners. The more heat you apply to the material, the more flexible it becomes. However, heat also plays a role in achieving a long lasting bond between the vinyl and the surface. After installing the entire Rifle Skin, it is required to hit the entire thing once more with heat in the final step: the post heat. ☺

## Tips & Tricks

- Complete a small project first to get familiar with product.
- Have room temperature to comfortable level, less time to heat weapon.
- Turn off ceiling fans to prevent dust from landing on clean surface.
- Apply heat to the surface of the gun prior to placing the pieces.
- If there is air trapped underneath the material after being set in place, it can be easily fixed by pulling up gently on product and rework material, may need to apply additional heat.
- You will need a needle or tip of hobby knife to relieve any air bubbles that may occur at the edges of the hexagons
- Use degreasers, such as FrogLube solvent or Gun Scrubber. Use a small brush and scrub it well, especially in the recessed edges, pins, grooves, and other areas where buildup is likely to form.
- A typical install requires at least three or four blades for your hobby knife. Change blades frequently.
- Hold the vinyl into place after heating it (using a towel or foam to protect your hand) and letting it cool completely. This hardens the vinyl, locks it into place, and allows it to be cut away without tearing or stretching.
- As per **GunSkins** policy, If you are unhappy with your installation or finished result for any reason within the first 60 Days of purchase, please contact GunSkins right away for a refund with original receipt.



*A variety of available color mixes GunSkins has for Modern Sporting Rifles (MSR (ARs))*

# SAFETY FIRST

ALWAYS  
EACH AND EVERY TIME



By Andy Fink

*ONLY* put your finger on the trigger when you are ready to shoot! The gun is pointed at your target, in a safe direction, and you know what is behind your target, and it is safe to shoot.

Everyone should always remember this, but especially shooters who participate in those shooting sports in which you are moving with a gun in your hands! The moment your eye and barrel comes off the target your finger comes off the trigger. Reloading – finger off the trigger. This needs to be one of your training drills that is absolutely automatic.

Please keep your finger off the trigger! ©

# Finger Off the Trigger!



**YES!**  
Reloading on the move  
with finger off the  
trigger.



**YES!**  
On the move with finger  
off the trigger.



**YES!**  
Racking the slide with  
finger off the trigger.



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# Pachmayr®

A Division of Lyman Products



MGM Targets are known for their outstanding quality, generosity in the shooting supports, and their support of the 2nd Amendment. They have sponsored junior shooter camps and put on the toughest 3-Gun match in the country, the MGM Ironman, as well as other competitions.

We have been proud to use their steel for years whether it is static, poppers, spinners, propellers, or stars. They have steel built for .22s, medium calibers, and big bore.

Not only do they build fantastic steel targets they also build shoot houses and rappel towers. Check them out. I guarantee it will be well worth the visit.





# Dear Santa



## Pyramyd Air Youth Vests

When juniors are small, and or thin, in stature it is sometimes hard to find the real estate to put on all the rifle, and pistol magazines, as well as the shotgun shells they need to carry for 3-Gun or airsoft. We are always searching for good solutions and here is one.

Pyramyd Air is known for its huge variety and having the latest replicas of all types of airguns. Whether it be airsoft, pellet, or BB gun, you can find just about any airgun you want. They also carry vests. The Swiss Arms Tactical Vest, primarily built for airsoft sports, works equally as well for 3-Gun. The sides tighten in, it has pouches for magazines and extra shells. It also has a little shoulder padding that you can expand by placing additional padding on the should such as this ShockEater pad. This makes a big difference when shooting shotgun slugs. Check out Pyramyd Air.

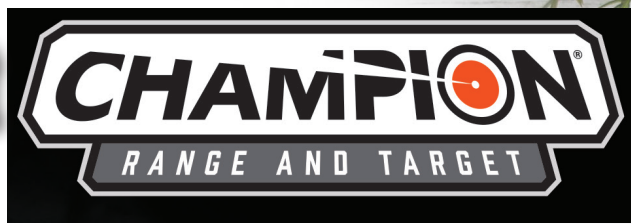


## Lyman® PACHMAYR Knives

Pachmayr has just come out with a line of sportsman knives to augment their excellent shooting products. We got three samples and were impressed. These are excellent knives and reasonably priced from \$15.98 to \$99.98 they would make excellent gifts.



# Great Gifts from Champion



Champion has some great gifts at reasonable prices. Clays can be found at Walmart for under \$10. They have a variety of paper, duraseal, and steel targets and an excellent selection of hearing protection head sets. Check them out at your local sporting goods store or online.

# Good Stuff From Uncle Mike's



Uncle Mike's has a variety of good shooting products to take a look at this holiday season to include competition belts, gun cases, and reflex holsters which are excellent.





# Dear Santa



## STEALTH CAM<sup>®</sup>

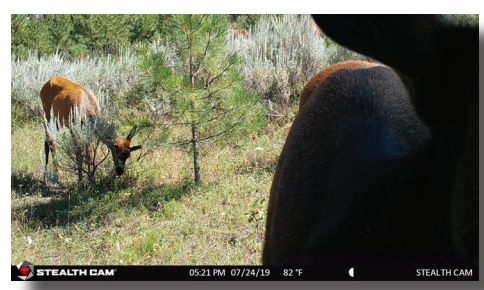
Digital Scouting Cameras



I have a few fellow hunters out there that have been using trail cams to scout out their favorite hunting spots. I have often received text and looked at amazing pics and video of animals and thought wow! I never gave it much thought to have trail cams out but the more I see, the pictures and videos that they keep sending me I was wanting to try them out for myself. I was excited when I asked to try out Stealth Cam's STC-G45NGMAX. So, the first chance I had to get the cam and put it to use I did. The camera is durable and is designed to withstand the elements, and from what many of you might have experienced, the animals. My first experience, I had an elk spin my camera all the way around the tree. There are a few options out there from Stealth Cam to add to the protection of your trail cam like cable locks or lock boxes. I have yet to try these out for myself, it could be a safe option for next year. This camera comes with easy set up programming for either customizing or preset quick set. With multiple options for pictures and videos, you and the SD card storage, you can take and store multiple pics and videos. The next gen night imaging gives you excellent pictures day or night. The Stealth Cam has proved to be a durable and reliable camera. I have enjoyed using the Stealth Cam so much that now I have four and plan on continuing to set them out and see what I catch on camera next. *Brian Hamilton, Coach*



- 26 MP
- Weather resistant
- 4 sec trigger speed
- Hi res Night imaging
- 1080 HD Video Res
- Low light sensitivity
- No glow flash
- Blur reduction



# TIMBER CREEK OUTDOORS



Timber Creek outdoors makes grips, handguards, charging handles, muzzle brakes, and accessories for Modern Sporting Rifles (MSR). They are well made and work very well. We received a number of samples that we used to customize a MSR. They functioned flawlessly. Check them out at Timber Creek Outdoors.

*Day/Night sights from HI VIZ work excellent. They are clear and provide the little extra you need.*



*They have one of the best set of shotgun sights that make it really easy to pick them up in any kind of weather and low light.*

HI VIZ Shooting Systems have always built great sights. They have really expanded their offerings over the last couple of years.

I have put their shotgun sights on almost every shotgun I have as well as on a number of pistols and rifles.

If you need to get someone quality sights for an inexpensive price for the holidays, don't forget to visit HI VIZ.



*Their fiber optic front and rear sights for lever-action rifles are awesome!*

**Dear Santa**



# NIKON Scopes for Christmas

**16523\_P-TACTICAL\_308\_4-12x40\_BDC800\_2**

**16525\_P-TACTICAL\_223\_3-9x40\_BDC600\_2**

**16529\_P-TACTICAL\_RIMFIRE\_2-7x32\_BDC\_150\_6**

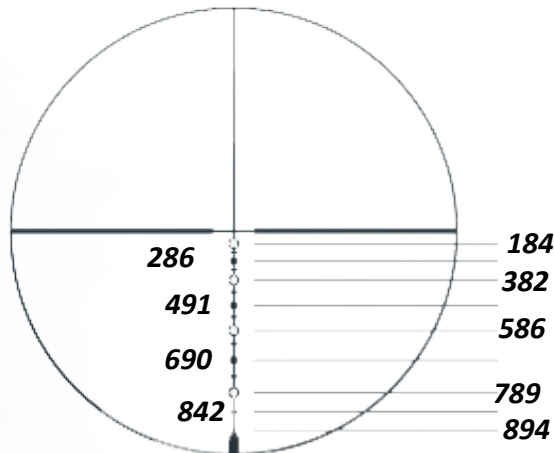
Are you looking for some good scopes at a reasonable price to give someone for Christmas? We got in four Ballistic Drop Compensator (BDC) scopes from NIKON that are nice. They are all first focal plane so pricing can still be low. The prices range from a MSRP of \$179.95 for the rimfire tactical BDC to \$449.95 for the M Tactical BDC.

What is really great about these BDC scopes is you can go to Nikon's website at:

<http://spoton.nikonsportoptics.com/spoton/spoton.html#Index:28> put in your scope model, your ammunition maker, and your cartridge and it will give you the exact distance for each aiming point on the BDC reticle. That is awesome!

**M-Tactical .308 Winchester 4-16X BDC 800 Black Hills Ammunition 175-grain Sierra MatchKing MV 2,600FPS BC: 0.505**

**16517\_M-TACTICAL\_308\_4-16x42\_BDC800\_4**



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# Great Gifts From TANDEMKROSS

Customizing your Ruger MK IV, or Ruger 10/22, or Ruger PCC 9mm is fun, very worth while, and not very expensive. TANDEMKROSS has just about everything you need so you really need to check them out.



*Ruger 10/22s are some of the best and most popular .22 LR's available. The addition of a TANDEMKROSS Ultimate trigger kit and a belt holster for three 10-round rotary magazines will add a lot of fun to your shooting.*



*Ruger's PCC 9mm is awesome and we love it! However, it can be made even better with the addition of a sear spring, extended magazine release, cross pin set, Victory trigger, muzzle brake, and front fiber optic sight.*



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**Come on out and give it a try!**  
To find a local USPSA club or become a member, visit [www.USPSA.org](http://www.USPSA.org).

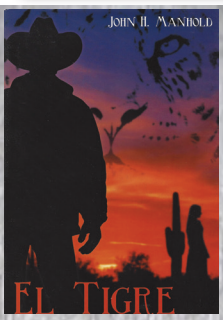
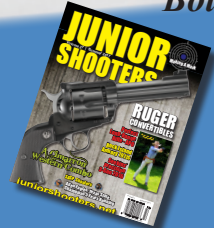


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