

## Testing at the Range

OK, you're at the range and you've set up the rifle on a rest to do the last set of tests.

Remember to follow all safe firearm handling rules, the rules established at the range, and the commands of the range officer. Make sure to wear your safety glasses and hearing protection. You should have your dummy rounds and it's important to have good quality, factory new, live ammunition.

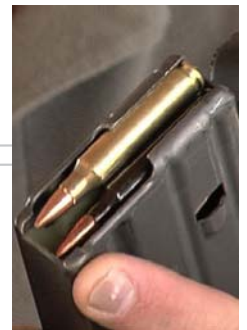
If you've installed a mil spec fire control system you shouldn't have any issues with it. If you've installed an adjustable trigger system then you absolutely need to test fire your rifle's fire control system. Either way it's a good idea to perform these last simple tests to ensure your rifle is safe.

First we are going to check and make sure the rifle doesn't discharge when the bolt closes or slam fires.

1. Assuming that the range officer has given the command to load and fire. Pull back on the charging handle and lock the bolt carrier back with the bolt catch, then lock the charging handle in its forward position.



2. Load one dummy cartridge into the magazine and one live cartridge.



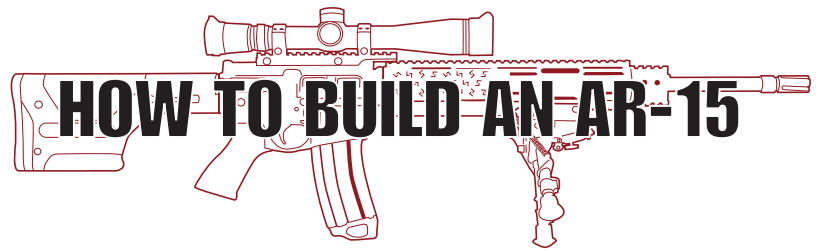
3. With the rifle pointed down range and the safety selector set to safe, load the magazine into the magazine well and get into a shooting position.

4. In your shooting position, use the bolt catch pad to release the bolt carrier under the force of the action spring. The bolt should close and rifle should not discharge.



5. If the rifle discharged, stop now, unload and investigate the reason. Typically on an improperly adjusted, non mil spec trigger system, the trigger and hammer sear engagement has been over adjusted or something is interfering with the firing pin. You need to resolve this issue before continuing any further testing.

If the rifle didn't discharge, then it is now loaded and on safe. We are now going to check to make sure that the sear and the disconnecter of your fire control system properly controls and engages the hammer.



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1. Get back into a shooting position, rotate the safety selector to fire and squeeze the trigger. The rifle will discharge, eject the spent cartridge, and load the action proving dummy into the chamber.

2. The hammer should remain cocked, to test this, make sure your finger is off of the trigger and rotate the safety selector back to safe. If the safety rotates to the safe position then the hammer is cocked and everything is working as it should. If the safety won't rotate back to safe then the hammer may have fallen when the second cartridge was chambered. This test will work on most triggers, but not all of them. So, rotate the safety selector to fire and squeeze the trigger again. You should hear the hammer fall, confirming that the hammer was actually properly engaged with the trigger sear.

As a final test of the fire control system and the functioning of the rifle, we are going to load three live rounds.

1. Load your magazine with three live rounds.
2. Pull back on the charging handle and lock the bolt carrier back with the bolt catch.
3. Push the charging handle forward and lock it in place.
4. Rotate the safety selector to safe.



5. Insert your loaded magazine into the rifle.
6. Get into a shooting position and close the bolt carrier with the bolt catch. The rifle is now loaded and the safety is on.
7. Rotate the safety to fire and squeeze the trigger.
8. The rifle should discharge and chamber the next live round.
9. Squeeze the trigger again, the rifle should discharge and load the final round into the chamber.
10. Squeeze the trigger for a third time and the rifle will discharge and lock the bolt carrier to the rear.

If everything functioned as it should have then you're ready to sight in and do some shooting.

We appreciate you watching this video series on how to build your own AR15. We hope you found this program informative and interesting. At Brownells we take great pride in our history of selection, service and satisfaction and we stand behind all the products that we sell with our 100% lifetime guarantee. If you need further information or help with your rifle please don't hesitate to contact us. On behalf of all the staff at Brownells, Thank you.