



ASSEMBLING THE PTC FOR INSTALLATION

Before you begin, you will need an 1/8" roll pin punch and a block to support the bottom of the rear pin ear. Make certain the punch is smaller than the hole in your receiver or you will damage your gun.

1. Put the 6-32 x 3/8 SS set screw in the rear most hole from the bottom. Screw it in until flush.
2. With the bottom facing up drop two plastic balls into the other hole. Then screw in the 6-32 x 3/16" SS set screw until you feel resistance.

You are now ready to install the PTC.



INSTALLATION

1. First, check and ensure your rifle is unloaded.
Option: Check your current trigger pull weight and trigger cycle length for later comparison.
2. Remove the upper receiver from the gun and set aside.
3. Remove your AR's trigger guard.
4. With the slot for the trigger facing up, insert the front tab of the PTC Guard with the smaller hole into the front slot in the receiver, closest to the mag well. Line up the screw hole with the receiver hole and thread the 5-40x 3/8 screw into the hole but do not tighten.
5. Swing the guard up into position between the rear ears in the receiver.
6. Align the rear 1/8" pin holes in the receiver and PRC. Support the pin tab on the back (bottom) side of the receiver. Failing to do so can break it off. Putting a drop of lubricant on the pin helps. Be certain the holes are aligned.
7. Reinstall the 1/8" pin with gentle taps of the hammer to start. Do not force the pin in. Use the punch to set the pin flush, as the hammer alone can mark or damage your receiver.
8. Tighten the front 5-40 screw to 5.2 inch/lbs. (Remember this is a very small screw. If you over-tighten it you may strip it)
9. Screw the 6-32x5/8" SS set screw into the new 1/4-28 Allen Cap Grip screw until the round end of the set screw protrudes about 3/8" - 7/16" from the end of the 1/4-28 grip screw.



10. Put a small drop of Blue Loctite or other non permanent thread locker along the protruding threads of the 6-32 set screw. Retract the set screw back to flush with the top of the grip screw. Wipe off any excess thread locker liquid.
11. Move steadily.
12. With the receiver placed top down and grip up, hold the grip down (in place). Remove your existing grip screw. Try to not allow the grip to rise or you may release the safety spring.
13. Install and tighten the new grip screw. Insert the long 1/16th inch Allen wrench into the set screw hole in your new grip screw. Use this to align the end of the grip screw with the hole in the grip then tighten.
14. Ensure the AR hammer is cocked back in the fire position with the fire control selector in the **SAFE** position.
15. Using the long 1/16th Allen key, adjust the set screw in until the set screw pushes the back of the trigger bar into the safety bar and stops. The screw will stop turning here. Unscrew the set screw slightly until the safety works freely.
16. Put the safety to fire.
17. Holding the hammer, test the trigger. **Never fire the hammer into the mag well web or you may crack the aluminum web.**
18. Re-cock the hammer and test the trigger several times. If you experience any catching when the hammer cocks, back the set screw out slightly until the hammer cocks freely. This will be the shortest pre-travel setting for your particular AR. We recommend some amount of pre-travel (2stage) but some people like none.



19. Put the gun on SAFE.
20. Put the upper receiver back on the gun.
21. Using the charging handle, cock your AR.
22. Screw the rear set screw on the PTC guard until it touches the back of the trigger.
23. Screw the lock screw in until you feel slight resistance, then add 1/4 turn. The small poly ball between the screws acts as a friction lock. The poly balls protect the threads on the stop screw, keep the lock screw in adjustment and allow locking and unlocking the gun. **These balls must be used or permanent damage may occur to the PTC threads.**
24. Put the gun fire control selector into the fire position and pull on the trigger.
25. The gun should not fire (Your AR is in the lock/safe mode now).
26. While pulling continuously on the trigger, use the Allen key to slowly back out the stop screw until the sear releases (Gun fires).
27. Screw the stop screw in slightly and Repeat (21). You should now have just a couple thousands of over travel.
28. Tighten the small locking set screw slightly. It will crush the ball into the stop screw thread and lock it in place. Recheck trigger function.
29. Cock and test the trigger several times.



30. Check reset. Pull and hold the trigger back.

31. Charge the rifle.

32. Slowly release the trigger. There will be an audible “click” when the trigger resets. Note that nothing has changed in your mil-spec trigger except it is now borderline amazing.

You have just installed what we feel is the single greatest and most beneficial AR modification in history. Go shoot your gun. Let us know if you agree at our Instagram page at @hyperionmunitions!

CHILD SAFE/STORAGE FUNCTION

Turn the stop screw in 1/3rd turn and the gun will not fire. Turn it back 1/3rd and it will fire. No child can have an accident or thief use it immediately.

No lock is an absolute permanent safety. Our PTC is convenient, unobtrusive, quick and intended to stop accidents and unintentional or unauthorized use. And it does so 100% of the time if used properly.

Contact marketing@ptccontest.com if you require additional assistance with your PTC setup.