



INSTALLATION INSTRUCTIONS – ARAK CHASSIS

TOOLS REQUIRED:

3/8" Drive ratchet, T27 Torx wrench, small rubber mallet, small hammer and 3/32" pin punch (optional for bolt-catch installation), small Phillips screwdriver, small telescoping magnet. All other wrenches included

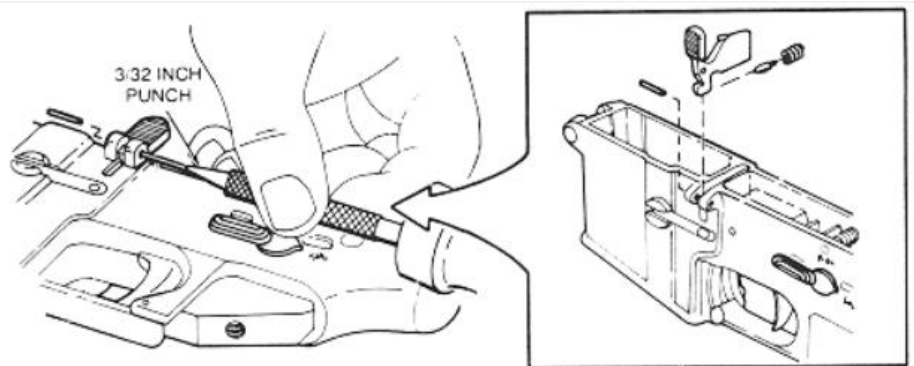
INSTALLATION:

1. Begin your installation by prepping your Mil-spec receiver. Your receiver should be a standard, bare Mil-spec receiver without a trigger guard. No other receiver will fit the chassis. If you are starting with a completely bare receiver, you will need to install a bolt catch, our mag release components, and the provided RAVE 140 trigger and pins. If you are using an existing receiver from a previous project, just remove everything except the bolt catch.

2. **MAG CATCH:** Locate packet **#HP-100** and remove the mag catch assembly shown to the right. Un-thread the button by turning counter-clockwise. Un-thread the small pin on the mag catch. Set the button, spring, and pin aside. Insert the mag release into your Mil-spec receiver from the left side of the receiver. Place the mag release spring into the cavity on the right side of the Mil-spec receiver. It should be sitting over the mag release stud. Now push the mag release button into the button slot on the right side of the receiver. You must overcome the spring tension enough for the button to slide down into the slot on the receiver while pushing the mag catch out the other side. Now rotate the mag catch on the left side clockwise, threading the stud into the mag release button on the right side. **NOTE:** to work correctly, tighten until there is approximately 7/16"-1/2" of the button exposed on the right side. **NOTE:** *There are various videos of AR mag release installations online if the method above is unclear.*



3. **BOLT CATCH:** If your bolt catch is already installed, please proceed to STEP 4. **NOTE: The PSA JAKL requires its own low-profile bolt catch.** To install a bolt catch, begin by putting 3-4 layers of tape on the side of the receiver. This will protect the receiver while



driving in the bolt catch roll pin. Tap the roll pin into the receiver just enough for it to stay in place on its own. Insert the spring, then the plunger. Hold the receiver upright and insert the bolt catch. While keeping the holes aligned, drive the roll pin through the receiver hole and bolt catch. Use the pin punch to seat the roll pin. **NOTE:** *There are various videos of AR bolt catch installations online if the method above is unclear.*

TRIAD

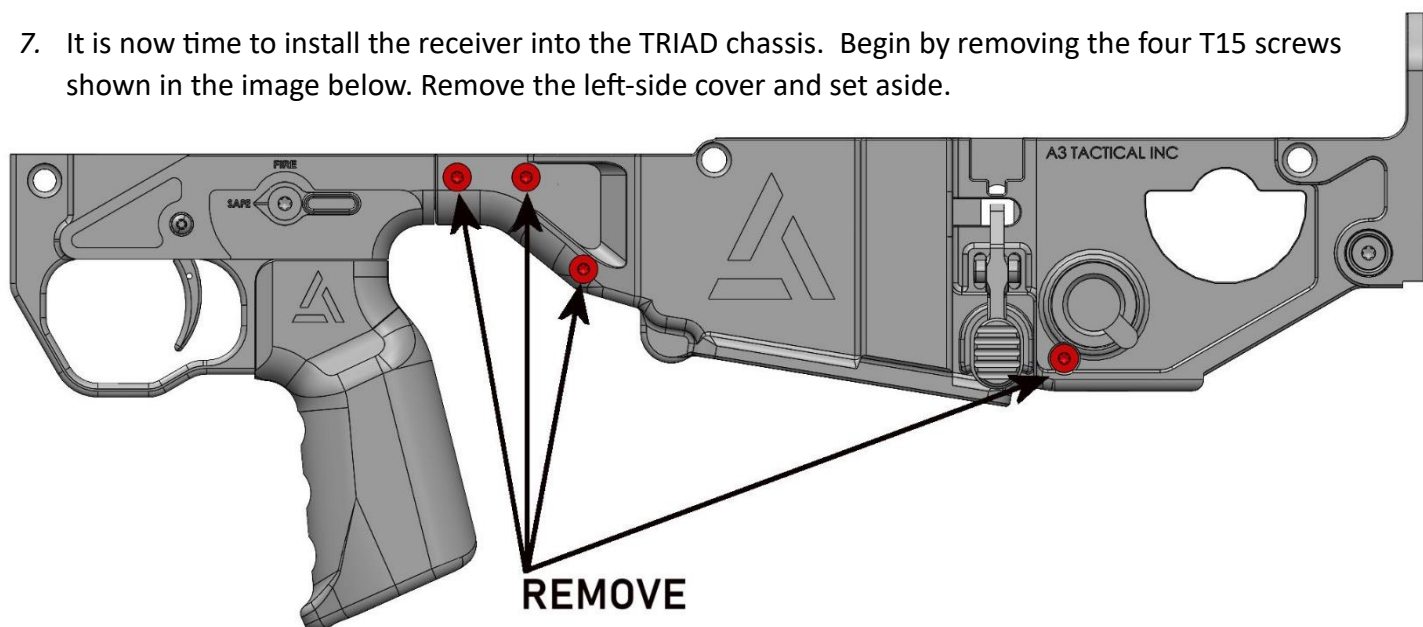
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4. **TRIGGER:** Locate the RAVE 140 trigger and trigger pins from the **HP-114** hardware packet. Remove the screws from one side of the trigger pins and set them aside. Install the trigger and pins into the receiver/trigger. Thread n the 2 screws and then tighten with the provided Allen wrenches.
5. **REAR SAFETY:** A rear safety selector is not necessary on the TRIAD however, the TRIAD can be run with both a front and rear selector if desired. If you want to run a rear selector, please install it at this time *using the instructions from the selector manufacturer.*
6. At this point the receiver should have the bolt catch, trigger, and trigger pins installed (and optional rear selector).

The finished receiver should look like the image below before proceeding.

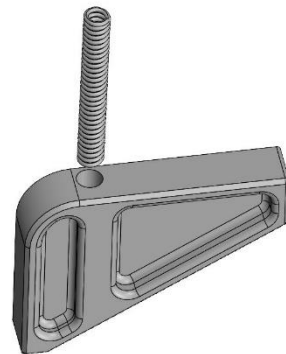


7. It is now time to install the receiver into the TRIAD chassis. Begin by removing the four T15 screws shown in the image below. Remove the left-side cover and set aside.

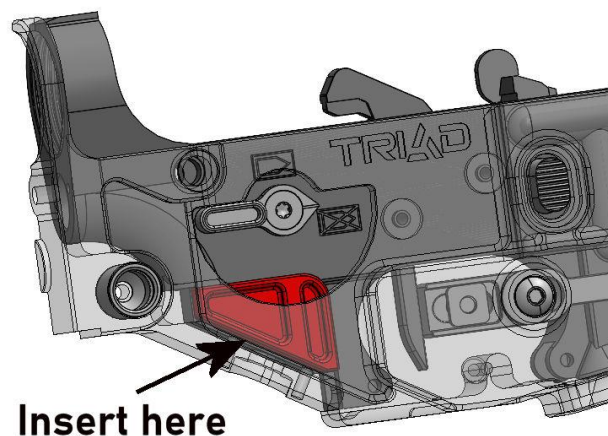


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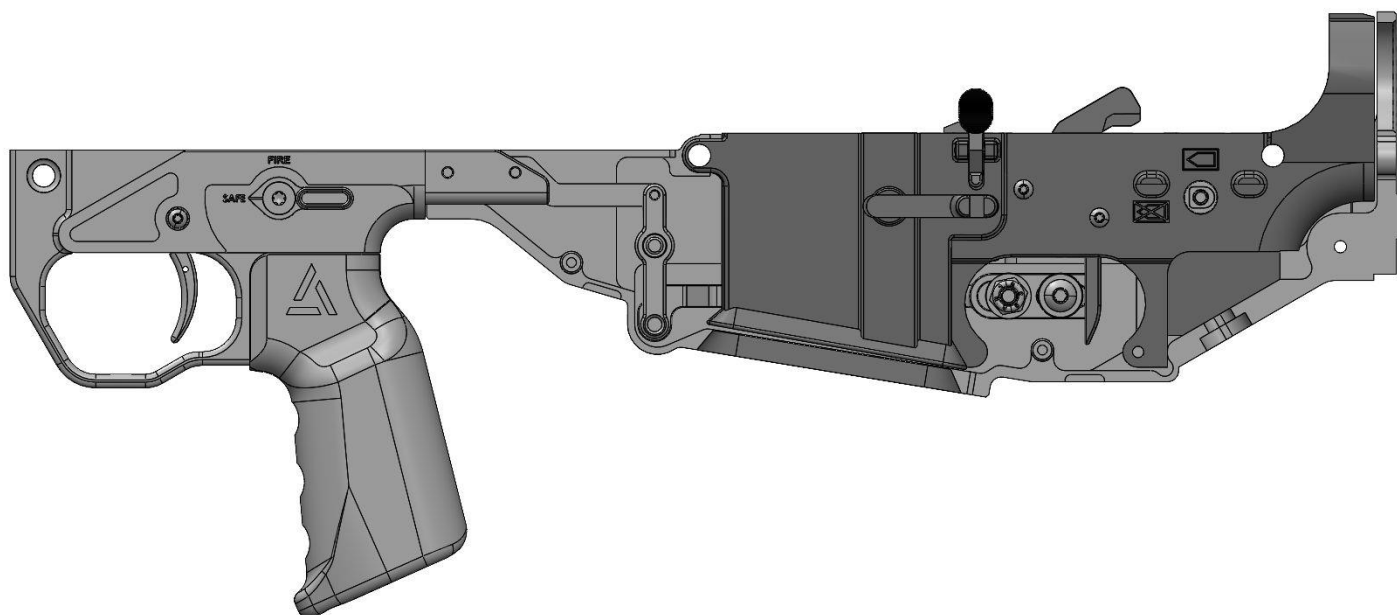
8. **REAR SELECTOR USERS ONLY:** If you are NOT running a rear selector, please skip this step and move on to Step 10. If you are running a rear selector, please proceed by inserting your selector detent spring into the detent adapter from hardware packet **HP114**. Insert the selector detent into the receiver as shown in the instructions from your selector.



9. **REAR SELECTOR USERS ONLY:** Position the detent adapter/spring against the receiver, making sure the detent spring lines up with the detent hole in the receiver.

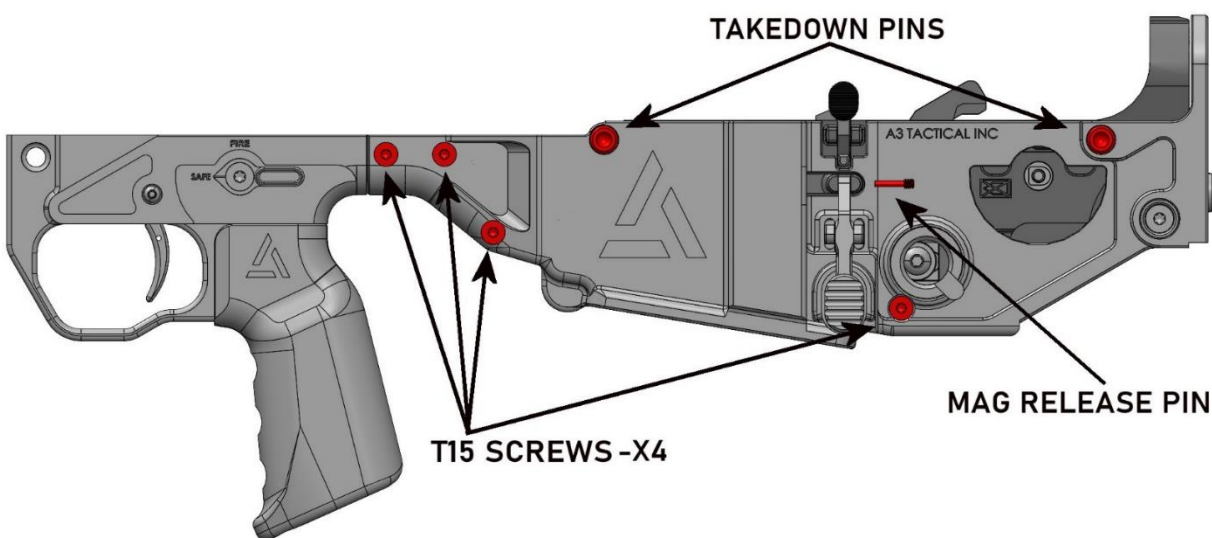


10. Insert the receiver assembly into the chassis as shown below. A true Mil-spec receiver will sit flat in the chassis with no wobble or interference. Line up the takedown pin holes then proceed to step 11.

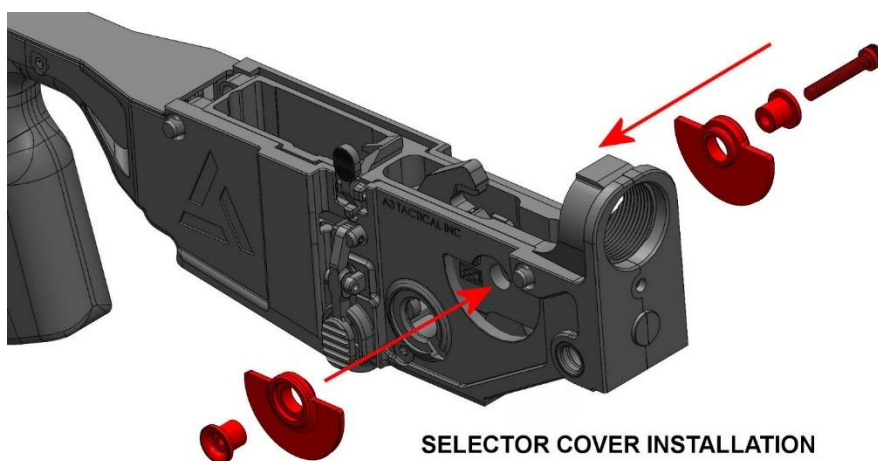


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11. Re-install the left-side chassis half. Again, the receiver should fit snugly, with no interference or “wobble”. Insert the four T15 screws that were removed earlier, and tighten.
12. Insert the two takedown pins from Hardware packet #HP100. This will insure that the receiver is aligned properly.
13. Locate the mag release pin that was removed in Step #2. Apply thread-lock to the threads of the mag release pin and insert it into the mag release lever as shown. Thread in the pin using the 1/16” Allen wrench. This connection relies on Thread-Lock to stay in place, do not tighten. Thread in until flush and then test the lever to ensure there is no bind. If the lever binds, loosen the pin slightly until the mag release functions correctly.

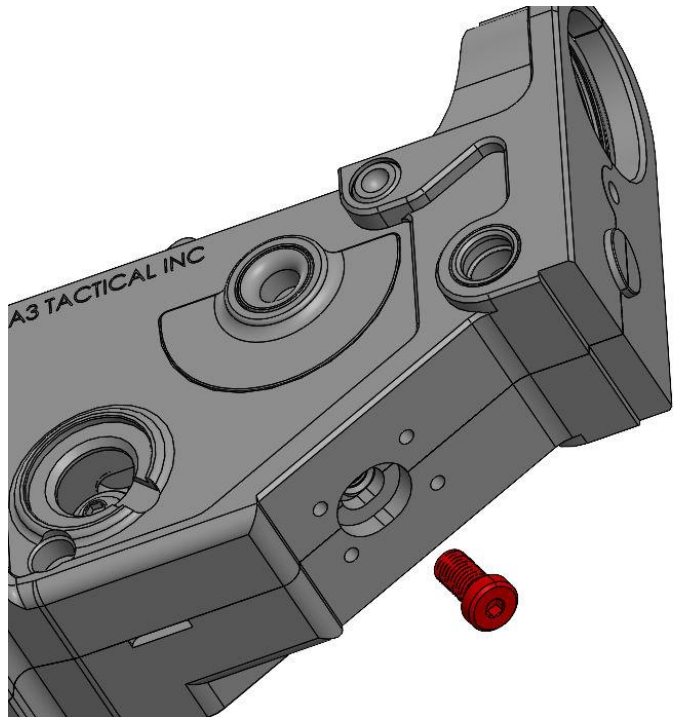


14. If you **are** running a rear selector, you can skip this step and proceed to **step 15**. If you **are not** running a rear selector, locate the two Selector covers, and Selector insert assembly from Packet #HP-100. Disassemble the insert assembly and install it on the chassis as shown. Tighten the screw with a 9/64” Allen wrench.

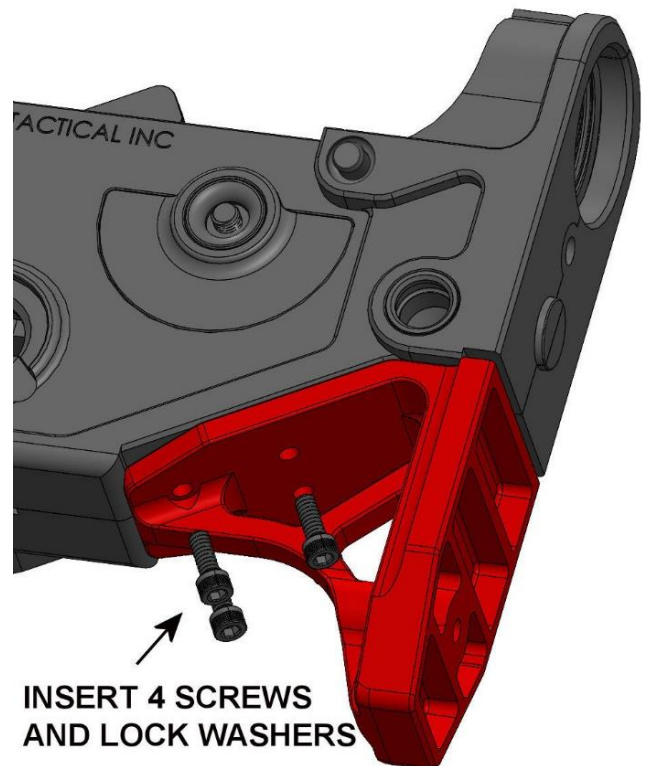


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1. Locate the $\frac{1}{4}$ " x $\frac{1}{2}$ " low-profile screw from hardware packet #HP-115. Thread in as shown and tighten with the $\frac{1}{8}$ " Allen wrench.

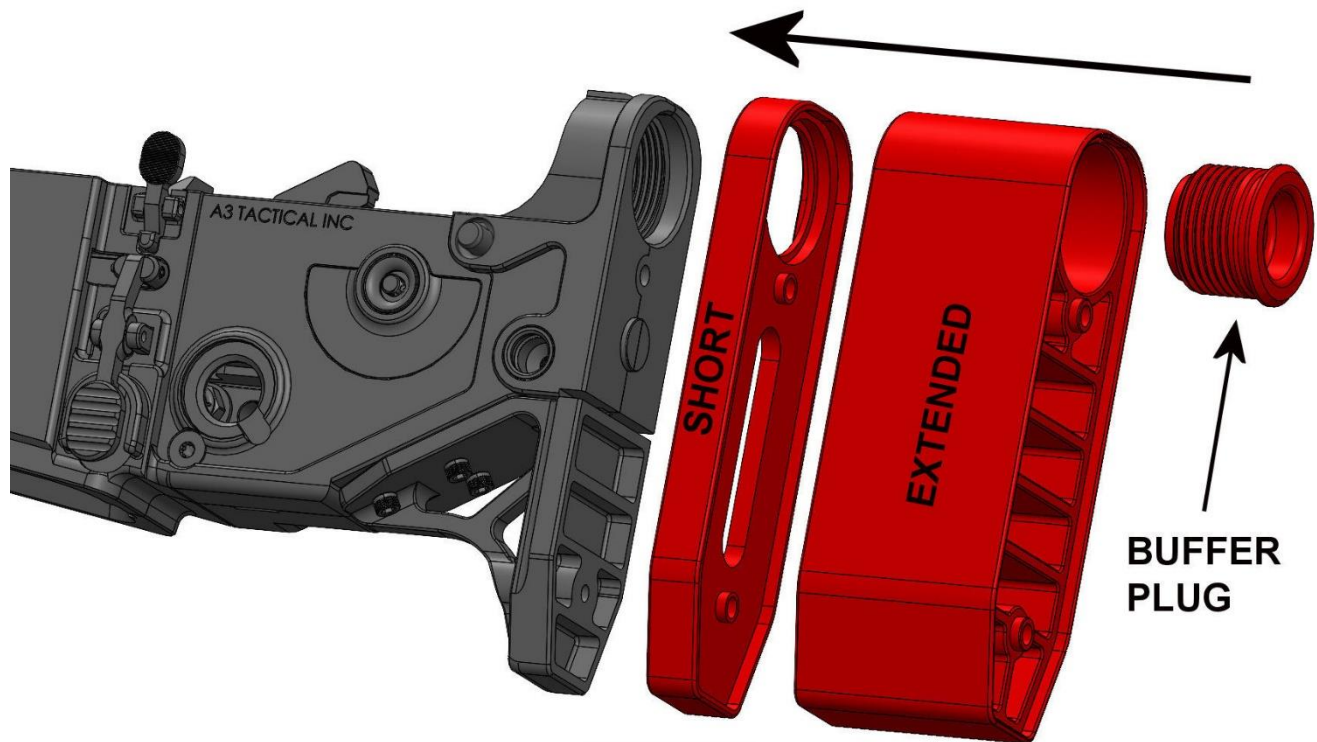


2. **BUTT-PLATE SUPPORT:** Locate the butt-plate support shown in the image to the right. Mount the support as shown using the (4) #6 x $\frac{3}{8}$ " Allen screws, and (4) #6 lock-washers that were installed in the chassis halves. Tighten.



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3. **BUTT-PLATE:** The TRIAD ships with a standard butt-plate and a 1.5" extended butt-plate. Choose the butt-plate you wish to use then attach it to the back of the assembly, sliding it over the chassis as shown below, while capturing the two halves. *NOTE: To seat it fully, you may need to tap it over the chassis with a small rubber mallet.*
4. **BUFFER PLUG:** Locate the threaded buffer plug. Using a 3/8" ratchet extension, thread it through the back of the butt-plate and into the Mil-spec receiver. Tighten until the butt plate is fully seated. *NOTE: the buffer plug does not need to be torqued, tighten until seated, then an additional 1/4 turn.*
5. **BUTT-PAD:** Locate the butt-plate hardware in hardware packet #HP-115. Insert the (2) #10 washers into the back of the butt-pad, then install the butt-pad onto the butt-plate. Use the 5/8" long screw (top)



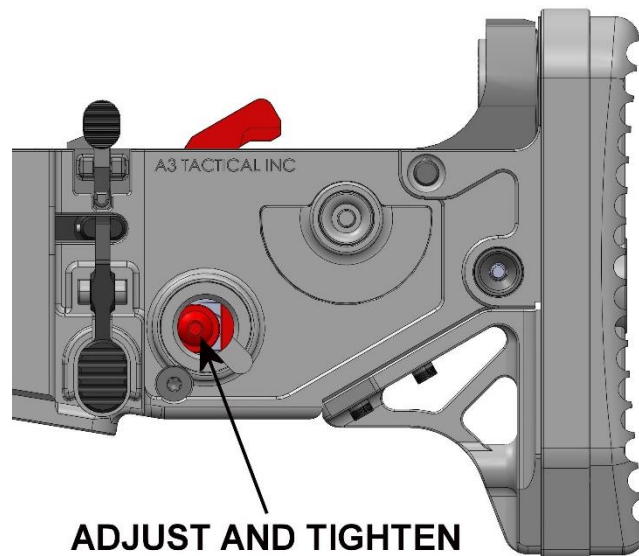
and 1" long screw (bottom) for the standard butt plate. Use the 2.25" screws for the extended butt plate. Thread the appropriate screws into the butt-plate then tighten.

The assembly is now complete. Double-check that all fasteners are tight before proceeding.

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TRIGGER/SAFETY ADJUSTMENT: The main assembly is complete and it is now time to test and adjust the selector and trigger. This is a very important step and necessary, not only for proper functionality but more importantly for the safety of the firearm.

NOTE: Failure to adjust properly can prevent the safety from working correctly, resulting in an accidental discharge.



NOTE: Your forward linkage comes pre-adjusted but it is always a good idea to test it before proceeding. With the selector on SAFE, the forward trigger should have very minimal movement, if any. *If your TRIAD has excessive trigger movement in the safe position, please reach out to our tech department and we will walk you through the adjustment procedure. This is a different adjustment from the following procedure.*

TRIGGER LINKAGE ADJUSTMENT

1. Loosen the trigger actuator screw through the access window, as shown, using the 1/8" Allen wrench. The actuator should be loose enough to allow sliding the actuator fore and aft.
2. With the safety selector on SAFE and the hammer primed (cocked), slide the actuator up against the face of the trigger leaving a very slight gap, then tighten. Tighten enough to collapse the lock washer only, do not over-tighten.
3. Move the selector to fire and test the trigger release. You should have a slight amount of movement before the trigger releases the hammer. Perform this test 3-4 times then re-tighten the trigger actuator screw.

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FRONT TAKEDOWN LUG ADAPTER

1. Remove the lower Picatinny rail from your ARAK upper receiver. Using 2 of the 3 screws, install the A3 Tactical Front takedown lug adapter as shown.
2. Attach the ARAK upper receiver to the TRIAD lower using the 3 takedown lugs



CHEEK REST

Your TRIAD Rifle kits ship with our 1913 rubber cheek rest. The cheek rest mounts with a simple friction fit, that retains it to your upper Picatinny rail. There are 2 lugs on the backside of the cheek rest, designed to fit into the Picatinny slots. These prevent the cheek rest from sliding fore and aft. For proper fit, make sure that these lugs are lined up with the slots in the upper Picatinny rail.

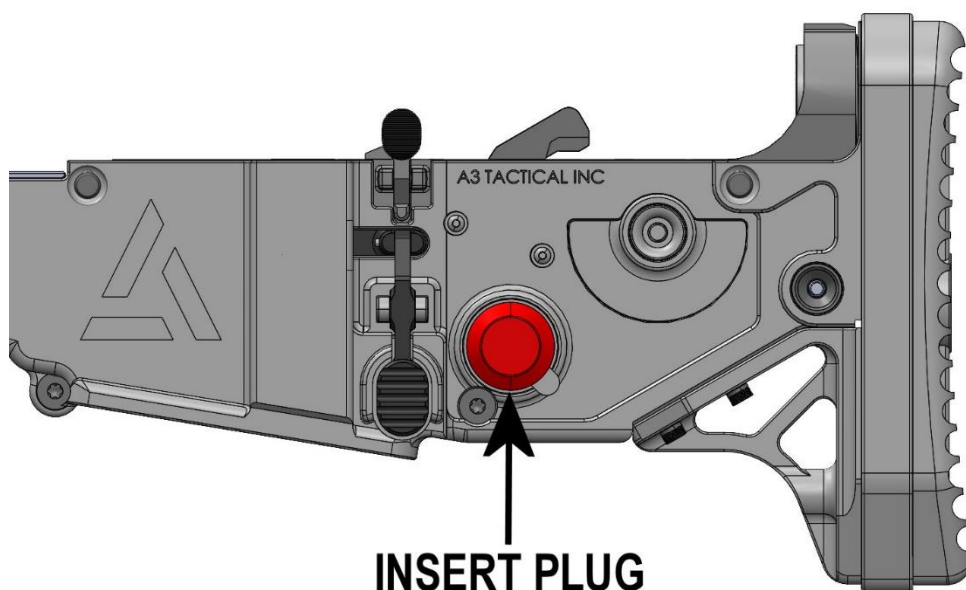


TEST FIRING

-NOTE: Before proceeding, make sure the chamber is empty-

At this point, the lower chassis (with internal receiver) should be completely assembled, the trigger tested, and the upper installed.

1. With no magazine in the firearm, charge the weapon. Leaving the selector on SAFE, try to pull the trigger. It should not release the hammer. If it does, please proceed to the troubleshooting section of the instruction sheets. If the safety is working correctly, proceed.
2. With no magazine in the firearm, charge the weapon, place the selector on fire, and dry-fire the trigger. Perform this test 3-4 times to make sure the linkage is tight and the bolt is resetting the trigger properly. If the trigger is not functioning properly, proceed to the troubleshooting section at the end of the instruction sheets.
3. With an empty magazine installed, charge the weapon. The bolt catch should hold the bolt open. Release the bolt, then dry fire the trigger. If the bolt release is not functioning properly, proceed to the troubleshooting section at the end of the instruction sheets.
4. If everything so far has tested fine, you can proceed to live firing the weapon. Begin with 5-10 rounds in the magazine, slow firing to get a feel for the trigger and weapon function. If everything is running well, continue putting rounds through it, alternating through slow firing and rapid firing (if your range permits). If everything is working correctly, go ahead and final-check that the trigger actuator screw is still tight, then press the plastic access cover cap into the hole. The access cover cap is in hardware packet **HP100**. If you need to adjust the trigger at a later time, the cover can be removed with a small screwdriver. **NOTE: the plastic plug requires a good amount of pressure to pop into place, it doesn't just easily pop in. When inserted fully the cap will expand inside the receiver and the center will be concave.**





TROUBLESHOOTING – TRIGGER ADJUSTMENT

Below is a list of the most common issues that can result from a misadjusted trigger linkage. If you are having any other issues, please contact our tech staff at 813-404-6757 or tech@a3tactical.com.

- **SAFETY NOT WORKING** – If the trigger still functions when the selector is on SAFE, the front trigger screw needs to be adjusted. This can be accessed under the front trigger housing cap. Remove the trigger housing cap to gain access to the trigger and selector. Locate the set screw on the trigger, just behind the selector. With the selector on SAFE, turn the screw clockwise until it hits the selector, then counter-clockwise 1/4 turn. This should reset the trigger and allow the safety to function properly. **NOTE:** you will need to reset the rear linkage anytime you adjust the front linkage. *Refer to TRIGGER/SAFETY ADJUSTMENT on Page 7.*



- **TRIGGER PULL DOES NOT RELEASE THE HAMMER** – this means that there is too much gap in the trigger linkage at the trigger actuator. Remove the side access cap(plug) and re-adjust the trigger actuator as explained in TRIGGER/SAFETY ADJUSTMENT on Page 7. *NOTE: if you repeat the adjustment procedure and still cannot get it to work, reset the safety first, as illustrated in the previous step, then re-adjust the trigger actuator.*
- **WEAPON ONLY FIRES ONE ROUND** – If only one round fires, but then you have a dead trigger for the next round, the firearm is failing to reset the trigger. This is due to the linkage adjustment being too tight. The rear trigger needs a small amount of forward movement during reset. If the trigger actuator is tight up against the trigger, it will prevent the trigger from resetting. *Refer to TRIGGER/SAFETY ADJUSTMENT on Page 7 and re-adjust the trigger actuator, leaving a very slight gap between the actuator and the trigger.*



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- **DOUBLE SHOT** – Pulling the trigger once results in a double shot and then a dead trigger. This is the same issue as the problem before. The linkage is too tight and not allowing the trigger to reset. Without a reset, the hammer can follow the bolt forward, striking the firing pin a second time.
- **DOUBLE FEED, FAIL TO EJECT, FAIL TO FEED** – these are all traditional issues related to the upper receiver, lower receiver, or magazine. None of these issues are related to the linkage in your TRIAD and can be diagnosed with standard AR troubleshooting guides, or by consulting your upper manufacturer.

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