

RƏD ARMY STANDARD

RAK-1

ENHANCED TRIGGER GROUP



WARNING! If unfamiliar with the assembling and disassembling of trigger mechanisms in firearms, you should have the installation done by a qualified gunsmith.

To install your new RAK-1 Enhanced Trigger Group, you first need to disassemble your firearm.



WARNING! Wear eye protection, such as shooting glasses or goggles, when disassembling your firearm to protect your eyes from tensioned parts, such as springs that could be dislodged during disassembly.

WARNING! Make sure your firearm is not loaded! Remove the magazine and inspect the chamber to ensure it is empty!

Disassembly

1. Move the safety lever to the "FIRE" position by rotating the safety lever downward.
2. Check the chamber to ensure it does not contain a round by pulling back on the bolt cocking handle. Inspect the chamber to ensure it is empty. Once you determine the chamber is empty and no magazine is in the firearm, let the bolt go forward.
3. While maintaining a safe muzzle direction, remove the receiver cover by holding the firearm in a secure position (across your lap, resting on a table, etc.) and grasping the rear part of the receiver with one hand, press the recoil spring cam forward. Then remove the receiver cover from the back end first with your other hand.
4. Remove the recoil spring assembly from the firearm by holding the forward portion of the receiver with one hand and pressing on the back of the recoil spring cam with your other hand until its rear face leaves the groove in the rear of the receiver. Lift the recoil spring cam and remove the recoil spring assembly from the bolt carrier channel. **NOTE: The recoil spring assembly is under spring pressure. Hold firmly on to the assembly when removing it or injury could result.**
5. Remove the bolt carrier and bolt from the firearm by holding the receiver with one hand and the cocking handle with your other hand. Pull the bolt carrier and bolt to the rear as far as possible. Once the back of the bolt carrier contacts the backplate of the receiver, lift the rear portion of the bolt carrier and remove it and the bolt from the receiver.
6. While holding the hammer down pull the trigger to release the hammer and slowly let it go forward. Place needle nose vise grips locked on the hammer. (See Illustration #1.) Move the hammer spring arms onto the vise grips. (See Illustrations #2 - #3.)

Illustration #1



Illustration #2



7. Remove the shepherd's hook from the trigger pin (See Illustration #4), then remove the trigger pin. (See Illustration #5.)
8. Remove the safety lever and the shepherd's hook from the receiver. Lift the trigger mechanism from the gun.
9. Leaving the vise grips on the hammer, push the hammer pin over and remove it from the receiver. Slide the vise grips with the hammer to the back of the receiver and lift out. (See Illustration #6.)
10. Use the pliers to grasp the spring legs one at a time, slightly lift them and pull out to the side to release the tension. (See Illustration #7.) **CAUTION: The spring is under tension!**
11. Once the tension is removed from the spring, remove the spring from the hammer. Make sure to note the position of the spring. (See Illustration #8.)
12. Set aside the original safety lever, trigger pin, hammer pin and shepherd's hook.

Illustration #3



Illustration #4



Illustration #5



Illustration #6



Illustration #7



Illustration #8



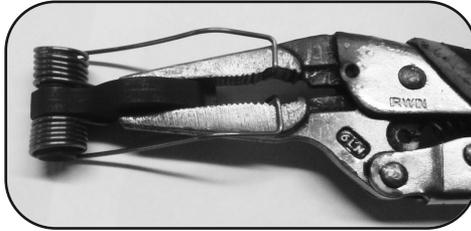


WARNING! Be sure to use all of the parts included with this RAK-1 Enhanced Trigger Group as they are designed to mate together. Do not use existing, or other, trigger parts with your RAK-1 Enhanced Trigger Group as an unsafe condition could result.

Assembly

1. Reinstall the spring on the hammer. (See Illustration #8.) Attach the vise grips back on the hammer and rewind the spring. (See Illustration #9.)

Illustration #9



2. Slide the hammer assembly in at the rear of the receiver. The smooth side of the hammer should be facing the chamber. (See Illustration #9.) Move the hammer with the vise grips attached forward until you can install the hammer pin.
3. Drop the new trigger assembly into the receiver. Do not install the trigger pin at this time!
4. Install the safety lever and shepherd's hook, ensure that the shepherd's hook is setting in the hammer pin groove properly.
5. Lift up on the shepherd's hook and install the trigger pin. Release the shepherd's hook ensuring that it is properly riding in the groove on the trigger pin. (See Illustration #10.)
6. Release the vise grips from the hammer which will allow the hammer spring to fall back into place, resting on the rear of the trigger. (See Illustration #11.) Ensure that the spring has properly engaged the trigger. **Caution: Once the spring is released the hammer is under spring tension!**

Illustration #10



Illustration #11



Safety Tests

1. Now you need to test the trigger to make sure it is functioning properly. While holding the trigger slightly rearward, depress the hammer until the disconnecter locks the hammer in place. (See Illustration #12.) Slowly release the trigger, the hammer should be caught by the two hooks on the trigger. If the hooks do not capture the hammer, the firearm could slam fire.

Illustration #12



2. Reinstall your bolt carrier and bolt, recoil spring assembly and your receiver cover.
3. Your firearm is now fully assembled with your new RAK-1 Enhanced Trigger.
4. ALWAYS “dry fire” your firearm (i.e. with no ammo) several times before using live ammunition to ensure all mechanisms in the firearm are working properly. If it is not working properly, or you are unsure, do not use live ammunition - take your firearm to a qualified gunsmith.
5. With the firearm cocked move the safety to the safe position. Pull the trigger, the hammer should not move! The safety tab should capture the rear of the trigger, preventing the hammer from going forward.
6. Apply safety; pull trigger; move safety to “FIRE”. Hammer should not fall.
7. Bump Test - Cock the rifle by operating the cocking handle; place safety in the “FIRE” position; bump the buttstock on a padded surface. The hammer should not release.

RAK-1 Enhanced Trigger Group

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