

!WARNING! IF THIS FIREARM IS CARELESSLY OR IMPROPERLY HANDLED, UNINTENTIONAL DISCHARGE COULD RESULT AND COULD CAUSE INJURY, DEATH, OR DAMAGE TO PROPERTY.

!CAUTION! CAREFULLY READ THIS INSTRUCTION MANUAL PRIOR TO LOADING THE FIREARM. FOLLOW ALL INSTRUCTIONS ON THE PROPER HANDLING AND SAFE USE OF THIS FIREARM. If unfamiliar with firearms, seek further advice through safe handling courses offered by your local gun clubs/ranges, NRA approved instructor, or similar qualified organization.

!CAUTION! USE ONLY CLEAN, DRY, HIGH QUALITY, COMMERCE MANUFACTURED AMMUNITION IN GOOD CONDITION. THIS FIREARM IS ONLY CHAMBERED IN .22 LONG RIFLE (LR) (Bentz chamber). Do not use .22 short, .22 MAG, .22 Long, .22 Shot, .22 cartridges loaded with blunt-nosed, sharp-shouldered, or “explosive” bullets. Use of ammunition not intended for this rifle may cause malfunctions, inaccuracy, misfires, damage to the firearm, property damage or injury/death.

PRACTICAL SAFE FIREARMS HANDLING!

FUNDAMENTAL RULES FOR SAFE GUN HANDLING

1. ALWAYS KEEP FIREARMS POINTED IN A SAFE DIRECTION.
2. NEVER LOAD A FIREARM UNTIL READY TO USE IT.
3. KEEP FINGER OFF THE TRIGGER UNTIL READY TO SHOOT.

BARREL BREAK IN PROCEDURE

A break in process must be performed on all new DesertTech firearms. This procedure will maintain the firearm's lifetime accuracy potential. The break in process burnishes or seasons the barrel which will enhance your firearm's accuracy if done properly. We do not recommend using non-jacketed lead bullets for this procedure. Full metal jacket or copper jacketed bullets are preferred with a brass casing (DO NOT USE STEEL CASED AMMUNITION! It will void your warranty).

ITEMS NEEDED

- 20 Factory loaded rounds of ammunition
- 2 oz, Premium Gun Oil & Lubricant
- Cleaning patches
- Cleaning rod
- Nylon bore brush
- 2 oz. Premium Cleaner & Solvent
- Latex or nitrile gloves
- Eye and ear protection

Fire 10 single shots, 5 minutes apart per shot, cleaning the bore between each round fired. Fire 2 rounds (10 shots total), 5 minutes apart per shot set, cleaning the bore between each shot set. The process will take about 90 minutes to complete, and the barrel will be properly seasoned.

CARE AND CLEANING

Before performing any maintenance for cleaning of a firearm, the operator should ensure the firearm is unloaded and is always pointed in a safe direction during the maintenance or cleaning process.

The mass of the bolt is in direct relation to the amount of stored energy in a .22LR projectile. As the expelled gas builds pressure in the chamber, it creates rearward momentum on the bolt cycling the action. The gas blowback system in a semi-automatic firearm is inherently dirty compared to a locking bolt system, all the expelled gas is vented rearward into the receiver that hosts all critical moving parts.

To clean the firearm the following steps should be taken:

1. Perform a field strip of the firearm.
 2. Use the correct size cleaning supplies for the following steps.
 3. Run a cleaning patch with Premium Cleaner & Solvent, Bore-Snake, and brass or nylon brush from chamber to muzzle multiple times until lands and grooves are clean.
 4. Apply a light coat of Premium Gun Oil & Lubricant to provide adequate lubrication to the receiver and bolt.
- To prevent the buildup of excess carbon and foreign debris, be cautious not to over oil the action.

DesertTech is a high-quality precision firearms manufacturer specializing in firearms and firearm technology. It was started with the vision of being on the cutting edge, producing Tomorrow's Weapons, and doing so with unrivaled performance. With an elite team, we've brought our ideas to life by creating products that people world-wide would want to be a part of. As a proud American made manufacturer, quality is at the forefront of our focus on all our products.

WARNING! GENERAL HANDLING CAUTION

In the event your firearm stops firing with a live round in the chamber (i.e., click and no bang) remove the magazine and wait 60 seconds with the firearm pointed in a safe direction before attempting to unload. Examine the outer rim of the casing for an indentation around the rim of the casing. If the indent is light or non-existent, contact the DesertTech Customer Service Department at 801-975-7272. If the indentation appears normal as compared to previously fired rounds, properly dispose of the misfired round and resume firing. Faulty ammunition may be the cause.

Do not attempt to operate the firearm if there is anything obstructing the barrel. (i.e., water, mud, snow, foreign residue)

If you hear a noticeable difference in sound when firing (i.e., A pop rather than the usual bang), STOP SHOOTING! Examine the inside of the barrel to ensure it is clear of any obstruction which may have been caused by a squib round. If there is an obstruction, contact DesertTech Customer Service Department at 801-975-7272.

GENERAL HANDLING CAUTIONS

1. Do not alter or modify your DesertTech firearm. Maintain normal cleaning and service.
2. Always handle your firearm as if it is loaded.
3. Never point your firearm at anything you don't intend to shoot.
4. Always ensure your firearm is unloaded with the chamber open before laying it down or handing it to someone else.
5. Never leave a loaded firearm unattended.
6. Always be sure the muzzle, chamber, and action are clear of obstructions.
7. Always make sure the ammunition is clean and undamaged before loading.
8. Never consume alcohol or drugs before or during shooting.
9. Always wear eye and ear protection when shooting.
10. Always keep the firearm on "SAFE" when it is loaded and only take it off "SAFE" when you are ready to fire.
11. Never attempt to fire if there is water in the bore.
12. Never engage in "horseplay" when holding or operating a firearm.



FUNCTION CHECK

1. Always keep the firearm pointed in a safe direction.
2. Verify the firearm is unloaded.
3. Check the function of the bolt.
 - a. Pull the bolt fully rearward and release. Ensure smooth operation of the bolt.
 - b. Repeat multiple times.
4. Check the function of the safety selector.
 - a. Move the safety selector switch from “SAFE” to “FIRE” and back. An audible “click” should be heard.
 - b. If no “click” is heard contact DesertTech Customer Service Department at 801-975-7272.
 - c. Pull the bolt handle rearward to cock the hammer. With the safety selector on “FIRE”, press the trigger to ensure smooth trigger operation. The control group was designed with a non-interference firing pin. “Dry” firing WILL NOT cause damage to the firearm.
 - d. Cycle the bolt handle rearward to reset the hammer. Place the safety selector on “SAFE”. Press the trigger. The hammer should not fall, and the trigger should not move. If for any reason the firearm fails this part of the function test, contact Black Rain Ordnance, Inc. Customer Service Department.
5. Check the bolt lock.
 - a. Pull the bolt handle rearward until it stops. Then operate the bolt lock and release the bolt handle. The bolt lock should hold the bolt open. If for any reason the bolt lock fails the function test, contact DesertTech Customer Service Department.

REASSEMBLY

Reassembly of the bolt to the receiver

1. Place the bolt handle assembly in the receiver via the ejection port exit. Ensure the recoil rod indexes into the rod capture stop located on the far-right side of the receiver and the top inside surface of the receiver.
2. Ensure the recoil rod remains in its proper position while compressing the recoil spring. In some cases, it may be easier to use a tool in compressing the recoil spring. NOTE: the bolt handle will move while compressing the recoil spring.
3. Maintain control of the bolt handle with one hand. With the other hand, place the bolt into the receiver aligning the top of the bolt with the bolt handle.
4. Press down on the bolt until an audible “click” is heard and the bolt can move forward in its dual ski alignment tracks. (Forward pressure should be spring fed and not forced by hand.)
5. Cycle the bolt multiple times to ensure proper fit of the bolt and bolt handle assembly to the receiver.

Reassembly of the trigger assembly to the receiver

1. Drift the bolt buffer into its proper position at the rear of the receiver.
2. Place the trigger housing assembly into the receiver and drift in the two trigger housing pins. NOTE: ensure when installing the trigger housing assembly into to receiver, the ejector is correctly located into the ejector slot on the trigger housing before installing.

Reassembly of the barreled receiver assembly with the stock

1. Re-install the barreled receiver assembly with the reverse steps of disassembly.

NOTICE

DesertTech shall not be responsible for personal injury, death, or damage to property resulting from either intentional or accidental discharge of the firearm, or from its function when used for purposes or subjected to treatment for which it was not designed. **DesertTech** will not honor claims involving this firearm which result from careless or improper handling, unauthorized adjustment or parts replacement, corrosion, neglect or the use of wrong caliber ammunition or any combination thereof. Only the use of commercially manufactured, high quality, brass-cased ammunition, in good condition will uphold the warranty. **DesertTech** will not honor claims involving this firearm for any reason or cause when the second or subsequent owner makes such claims. Before the firearm left the factory it was safety checked, tested, carefully inspected and packaged. **DesertTech** cannot control product handling after it leaves the factory; therefore, please examine this firearm carefully at the time of the purchase to ensure that it is unloaded, undamaged, and comes with all parts and accessories as advertised.



SAFETY SELECTOR FUNCTION CHECKS

On the TREK-22 the “SAFE” selector is located near the magazine release towards the back of the rifle. The selector moves side to side to engage and disengage the “SAFETY”. When the firearm is placed on “FIRE”, the selector will be pressed from the right side of the firearm to the left side. When the selector is placed on fire, a RED band near the end of the “SAFETY” selector will be visible. This indicates the firearm is on “FIRE” and ready to shoot. When the firearm is ready to be placed on “SAFE”, press the lever in the direction of left to right. The RED indicator will no longer be visible, indicating the firearm is on “SAFE”.



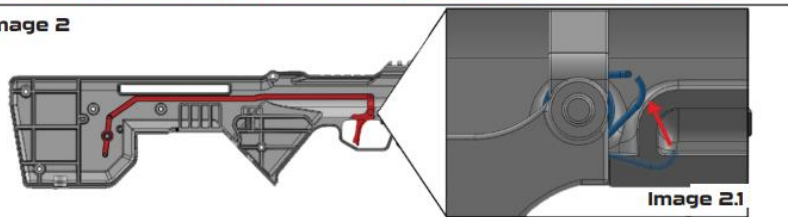


DISASSEMBLY (FIELD STRIP)

1) Follow all safety protocols! Rifle MUST BE unloaded, magazine removed, and chamber clear. Remove all ammunition from the area.

2) Install the TREK-22 trigger, trigger spring, and linkage assembly into left side stock panel so that the trigger and rear trigger link bars are captured as shown. (See image 2) Trigger spring will need to be compressed against the rib to install. Check that the trigger spring is installed correctly and is tensioned up against the rib in the stock panel. (See image 2.1)

Image 2



3) Refer to your Ruger user manual on how to remove your barreled action from your factory stock. Once removed be careful of the pins in the action and trigger pack as some pins may be loose and will fall out. Press out the two receiver dowel pins that connect the trigger pack to the upper receiver. Loosely install the provided take down screw and washer into your receiver, do not tighten at this time. (See image 3) The receiver pins can be stored in the TREK-22 stock inside the rib cavity directly in front of the TREK-22 trigger. (See image 3.1)

Image 3

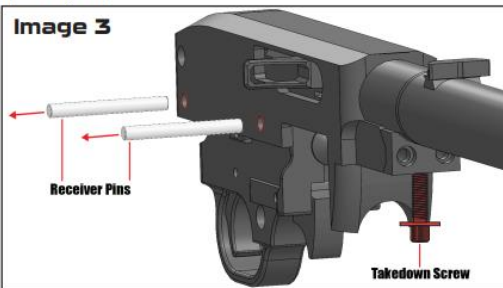


Image 3.1

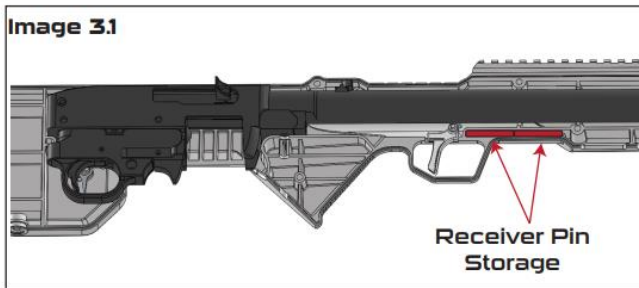
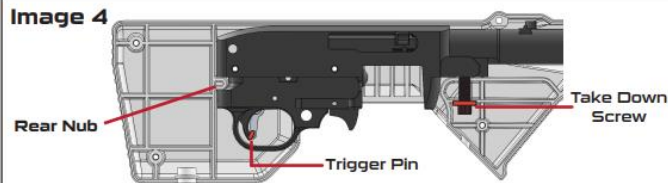


Image 4



4) Install your barreled receiver and trigger into the TREK-22 stock so that the indent in the rear of the receiver aligns with the nub in rear of the TREK-22 stock and the trigger activator dowel pin is in front of the Ruger trigger. The washer on the take down screw must be below the second rib in the stock area. (See image 4)

**Note: The bolt should not be locked to the rear during installation.*

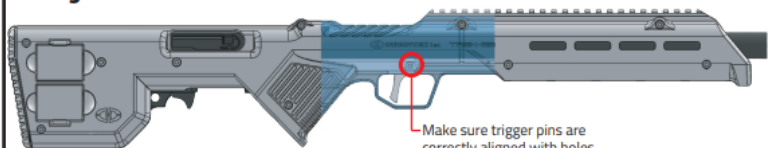
5) Install the sling stud mount into the notch located at the rear of the stock panel below the spare magazine pockets. (See image 5)

Image 5

Sling Stud Mount



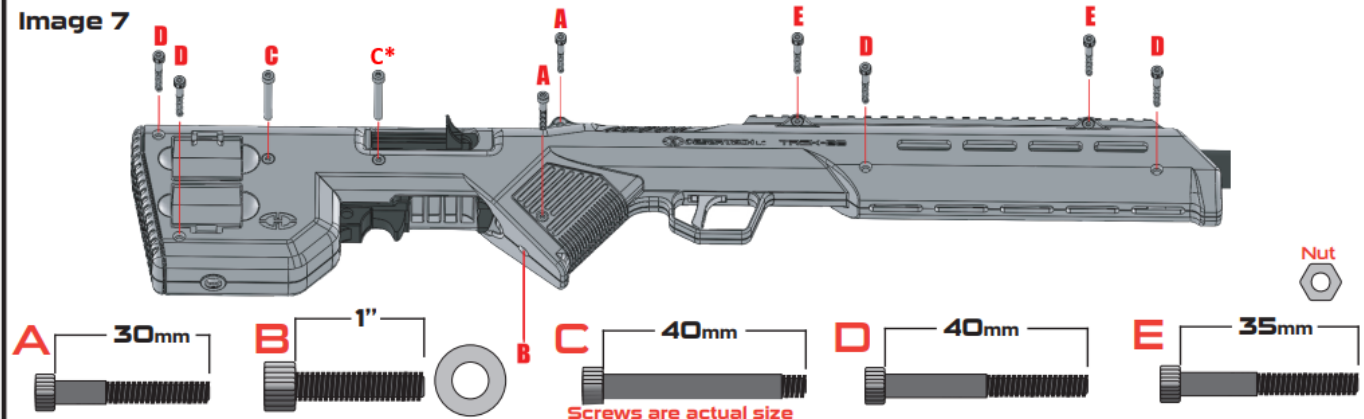
Image 6



6) Align the right stock panel on top of the left and press together, making sure that the trigger pins are correctly aligned with the holes in the stock panels. (See Image 6)
Insert the screws in the proper positions as shown with the 7mm nut on the back and hand tighten. (See image 7)

7) Torque the screws to the required settings in this order: First, torque the hand grip screw (A) to 7-inch pounds, torque the receiver take down screw (B) inside the hand grip to 20-inch pounds, then torque the two receiver pin screws (C) to 7-inch pounds, torque the remaining panel screws (D & E) to 7-inch pounds. (See image 7)
DO NOT OVERTIGHTEN SCREWS! [Note: Max Torque for (A), (C), (D&E) is 9-inch pounds. If charging handle movement is tight, you can loosen (C*) to no less than 6-inch pounds.]

Image 7



8) Safely inspect the trigger, safety selector, and bolt holdback for proper function before using your TREK-22.

CLEARING A MALFUNCTION

If for any reason you encounter a malfunction (jam or misfire) while operating this firearm, follow these safety steps:

1. Always keep the firearm pointed in a safe direction.
2. Ensure the firearm safety selector is placed on “SAFE”.

If the malfunction is a misfire, keep the firearm pointed in a safe direction for approximately 60 seconds before continuing with the safety steps.

3. Remove the magazine from the firearm. (See Removal of the Magazine section of the manual)
4. Pull the bolt handle to the rear and lock the bolt open using the bolt lock.
5. Ensure no cartridge remains in the chamber. (If cartridge remains in the chamber, repeat step four. If malfunction is unable to be cleared, contact DesertTech Customer Service Department for further assistance.)

If you suspect a squib load, point the firearm in a safe direction and then verify the chamber is empty. Use a cleaning rod to check for any obstructions in the barrel by running the rod down the inside of the barrel.

For additional assistance or questions, contact DesertTech Customer Service Department at 801-975-7272.

SAFETY SELECTOR FUNCTION CHECKS

Safe Note: Remove the magazine, make sure your firearm is unloaded, and the chamber is clear of any rounds before proceeding! Point the muzzle of the firearm in a safe direction. Pull the bolt handle to the rear and release the handle fully allowing the bolt to go forward with uninterrupted spring pressure. Place the firearm on “SAFE” then press the trigger. The hammer should **NOT** fall. If it does, contact DesertTech immediately.

NOTE: The TREK-22 is equipped with a specially designed non-interference firing pin, which allows the firearm to be “dry” fired without internal damage to the firearm.

Fire Note: Remove the magazine, make sure your firearm is unloaded, and the chamber is clear of any rounds before proceeding! Point the firearm in a safe direction. Place the selector on “FIRE”, press the trigger, and hold the trigger to the rear. The hammer should fall. Pull the bolt handle to the rear and release. Release the trigger and press the trigger again. The hammer should fall (an audible “click” will be heard).

LOADING A MAGAZINE

1. **Use only ammunition for which your firearm is chambered.**
2. With the front of the magazine pointing forward, place a cartridge between the feed lips (bullet facing forward). Press the cartridge down until it is retained by the feed lips. Place the next cartridge on top of the last and repeat until the desired number of cartridges are loaded. Do not exceed the intended capacity of the magazine

REMOVAL OF THE MAGAZINE

To remove the magazine, perform the following steps:

1. Always keep the firearm pointed in a safe direction.
2. Verify the safety selector is on "SAFE".
3. Use your index finger to push forward on the magazine release.
4. Simultaneously pull downward on the magazine with your support hand, thumb, and index finger.
5. Verify the firearm is unloaded by operating the bolt handle rearward to visually and physically inspect the firearm. No cartridge should be present within the chamber of the firearm.

LOADING THE FIREARM

When handling your firearm, you must follow ALL rules for safe gun handling (review prior to handling any firearm). To load the TREK-22, perform the following steps:

1. Always keep the firearm pointed in a safe direction.
2. Verify the firearm safety selector is on "SAFE".
3. Place the loaded magazine into the firearm. Make sure the bullet points forward down the barrel.
4. Pull the bolt handle rearward fully until the bolt stops rearward travel.
5. Release the bolt handle, allowing the bolt to fall freely into battery.

Now your TREK-22 is loaded and ready for operation



OPERATION OF THE TREK-22 RIFLE

Locking the Bolt Open

To lock the bolt open for cleaning, maintenance, or malfunctions you must perform the following steps:

1. Locate the bolt lock, which can be found directly in front of the safety selector.
2. Pull the bolt handle completely rearward until the bolt does not travel any further rearward.
3. While holding the bolt handle to the rear, press rearward on the bolt lock.
4. Once the bolt lock is pressed completely rearward, you may slowly release the bolt handle which will lock the bolt open. To close the bolt, pull back on the bolt handle, which will pull the bolt away from the bolt lock and allow the bolt to travel forward without restriction.

NOTE: The TREK-22 is not designed to lock the bolt open after the last round is fired from the magazine.



AMMUNITION

The TREK-22 is chambered in .22 Long Rifle (.22LR) Bentz chamber rimfire cartridge, standard high velocity or hyper-velocity, manufactured to the U.S. industry standards. Malfunctions, damage, or injury may occur to the firearm if the following ammunition is used: .22 short, .22 long, .22 shot, .22 “Stinger”, .22 cartridges loaded with blunt-nosed, sharp-shouldered, “explosive” bullets, “remanufactured”, “hand-loads” (reloaded) ammunition.

