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Operations and Safety Manual

Warranty and Product Information

All Calibers

D3 DEFENSE, LLC

Warning: Before using this firearm, read and follow these instructions



D3 Defense, LLC
13227 US Highway 287
Pennington, TX 75856

Cancellation Policy

If you have placed a D3 Defense internet or phone order that you wish to change or cancel, please contact customer service at 1-936-581-7920 9am-5pm Mon-Fri. If your order has already been shipped, you will only be entitled to receive a full refund for the value of the merchandise only (including applicable tax), shipping and handling will not be refunded. Any custom products are non-refundable.

Firearm Record

Make a copy of this operations manual and proof of purchase/sales record. Maintain these items in a secure safe or fireproof container. These materials will be necessary if the firearm is damaged, stolen, or returned to D3 Defense for warranty or repair.

Model: _____

Serial Number: _____

Purchased From: _____

Purchase Date: _____

You may attach the Proof of Purchase or receipt, or a copy of this page. Keep this Operation and Safety Manual, or a copy, with your rifle at all times.

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Return Instructions

All returns require a “Return Authorization Number” which can be obtained by calling D3 Defense directly at 1-936-581-7920.

1. Pack your return in the original shipping package, if possible.
2. Include the packing slip and return label, and indicate the reason for the return.
3. Include all original packing materials, manuals, and accessories.
4. Send your return via USPS or UPS to:

D3 Defense LLC
13227 US Highway 287
Pennington, TX 75856

You may initiate a return for most new and unopened items within 60 days of delivery for a full refund. You must return items in new or unused condition with all original materials included with the shipment. We must receive your returned items at our processing facility within 60 days of delivery. We inspect all returned items and may award a partial refund for opened or used products.

- A copy of the packing slip or the customer receipt must accompany all returns.
- For proof of delivery, we recommend that you return items via UPS or insured USPS.
- Merchandise must be in new condition with original packaging.
- Merchandise must be shipped in a protective box.
- Full refund including shipping if the return resulted from our error. Otherwise, shipping costs will be deducted from your refund.
- Refund will be issued in the same form of payment used for purchase.
- The customer will receive a refund within 7 business days of our receiving your return.

Warranty and Records Information

Limited Lifetime Warranty

Limited Lifetime Warranty: D3 Defense warrants to the original purchaser of its product that such products will be free from defects in materials and workmanship as such products were purchased from D3 Defense LLC. Provided that this limited warranty shall apply only if the following:

- The products are used and maintained by the purchaser as directed by all applicable documentation and instructions documentation and instructions by D3 Defense LLC.
- The products have not been in any way modified, altered, misused, neglected, abused, or improperly assembled or repaired.
- The claim is unrelated to normal wear and tear.
- The products have been operated under conditions no more severe than those for which the products were designed.
- The products have not been subject to corrosion and the claim is unrelated to a force of nature event.

Other than this limited warranty, the products are provided to purchaser on an “as is” basis and D3 Defense LLC makes no representation or warranty of any kind, express, implied, or statutory, as to any other matter whatsoever, including, without limitation, the implied warranties of merchantability or fitness for a particular purpose. D3 Defense LLC shall not under any circumstances be responsible for any loss or damage, indirect, special, ordinary, exemplary, consequential or otherwise, arising out of the use or operation of the products. Under no circumstances shall manufacturer’s total liability of all kinds arising out of or related to the use or operation of the products (including without limitation any warranty claims hereunder), regardless of the forum and regardless of whether any action or claim is based on contract, tort or otherwise, exceed the total amount paid by purchaser to D3 Defense LLC.

The sole warranty remedy from D3 Defense LLC is limited to repairing or replacing, at its option, any covered part of its products that D3 Defense LLC has determined to be defective. Said repair or replacement will be made by D3 Defense LLC or its authorized representative free of charge to the original purchaser, except for any freight or travel expenses, during the warranty period.

***USE OF STEEL CASE AMMUNITION WILL VOID ANY AND ALL WARRANTIES**

Safety

WARNINGS:

If this Firearm is carelessly or improperly handled, unintentional discharge could cause injury, death, or damage to property.

CAUTION:

Carefully read this manual prior to loading and firing. Follow all instructions on the proper handling and safe use of this firearm. Lives may depend on it. If unfamiliar with firearms, seek further advice.

WARNING:

This weapon could chamber a round if it is dropped or jarred with a loaded magazine in place.

Children are attracted to and can operate firearms that can cause severe Injury or death. Prevent child access by always keeping your firearm locked away and unloaded when not in use. If you keep a loaded firearm where a child can obtain it, you may be subject to fines and/or sent to prison.

Before this rifle left the factory, it was tested, carefully inspected, and packaged. D3 Defense, LLC cannot control product handling after it leaves the factory. Therefore, please examine this firearm carefully at time of purchase to ensure that it is unloaded and not damaged.

Safe Handling Procedures

- Do NOT alter or modify your D3 Model Firearm!
- ALWAYS HANDLE YOUR FIREARM AS IF IT IS LOADED!
- NEVER point your firearm at anything you don't intend to shoot.
- Always make sure your firearm is unloaded and the bolt is latched open to the rear before laying it down or handing it to someone.
- NEVER LEAVE A LOADED FIREARM UNATTENDED!
- Always be sure the bore, muzzle, chamber, and action are clear.
- Always check that ammo is clean and undamaged.
- Never drink alcoholic beverages or use drugs before or during shooting.
- Always wear ear and eye protection when shooting.
- Always keep the firearm on "SAFE" until you are ready to shoot.
- Never attempt to fire if water is in the bore.
- Never indulge in horseplay when holding your firearm.

Dangerous Procedures

- Be sure the cam pin is installed in the bolt assembly. If it isn't, your rifle can still fire but it could possibly explode.
- Do NOT exchange or switch bolt assemblies from one rifle to another. It could cause injury.
- If your firearm fails to fire, hold it, keep it pointed towards the target and wait 30 seconds. If a hang fire has occurred the round will fire within 30 seconds. If the round does not fire (misfire), remove magazine, eject round and examine the primer.
- If firing pin indent is light, misaligned or non-existent, have your firearm examined by a certified armorer. If firing pin indent on primer appears normal (in comparison to previously fired rounds) assume faulty ammunition; appropriately dispose of misfired round from other live ammunition, reload and resume firing.

Problem – Won't Lock

Possible Cause and Solution

Dirt, corrosion, or carbon buildup in the barrel locking lugs – clean lugs.

Problem – Safety Selector Lever Binds

Possible Cause and Solution

Dirt or sand under trigger - clean

Problem – Short Recoil

Possible Cause and Solution

Alignment of gaps of the bolt gas rings – see certified armorer

Carbon or dirt in the bolt key or on the outside of the gas tube – clean the bolt key and the areas around the gas tube

Foreign objects stuck in the bolt key – clean if possible, or see a certified armorer

Problem – Bolts fail to lock after the last round

Possible Cause and Solution

Dirty or corroded Bolt Latch – Clean the bolt latch, check the buffer end cap obstruction and check for full travel of bolt carrier

Problem – Bolt Carrier is hung up

Possible Cause and Solution

Round is jammed between the bolt and the charging handle and/or double feeding. Remove the magazine, push in on the bottom of the bolt latch. While pulling down on the charging handle, bang the rifle butt on the ground. The bolt should lock to the rear, the round should fall through the magazine well.

WARNING – KEEP CLEAR OF THE MUZZLE AFTER THE ROUND IS REMOVED, THE BOLT IS UNDER TENSION.

Troubleshooting

Problem – Won’t Fire

Possible Cause and Solution

Selector level on “SAFE” change to “FIRE”

Problem – Bolt Won’t Lock

Possible Cause and Solution

Dirty or burred bolt – clean or see certified armorer

Problem – Won’t Extract

Possible Cause and Solution

Broken extractor spring – see a certified armorer

Dirty or corroded ammunition – remove stuck round

Carbon in chamber – clean chamber

Fouling or carbon in the extractor recess tip – clean the extractor

Problem – Won’t Feed

Possible Cause and Solution

Dirty corroded ammunition – clean

Dirty magazine - clean

Defective magazine – replace

Too many rounds in magazine – take out excess

Magazine not fully seated – adjust magazine catch

Problem – Double Feed

Possible Cause and Solution

Defective magazine – replace

Problem – Won’t Chamber

Possible Cause and Solution

Dirty corroded ammunition – clean

Damaged ammunition – replace

If your bolt fails to unlock and you try to free it by banging the buttstock on the ground, keep yourself clear of the muzzle!

If there is water in the barrel, do NOT fire the rifle, it could explode!

If you notice a difference in sound and recoil, STOP FIRING. Either condition could indicate an incomplete powder burn and/or a bullet stuck in the bore.

ALWAYS PRACTICE SAFE FIREARMS HANDLING!

About your D3 Model Firearm

Description:

Your D3 Model rifle is a lightweight, gas operated, air cooled, magazine-fed, shoulder-fired weapon that is fired in a semi-automatic mode. The upper and lower receivers are easily opened for cleaning and inspection. The bolt assembly and barrel extension are designed with locking lugs that lock the bolt assembly to the barrel extension.

The forged and billet upper receivers reduce the weight of the rifle. Muzzle velocity is approximately 3260 feet per second in semi-automatic mode. The maximum effective range is 550 meters for individuals and point target, and 800 meters for area targets. Maximum range is 3534 feet.

Parts of your rifle

The orientation of Figure 1 and 2 below refer to your rifle when it is shouldered.

Figure 1 Right Side View

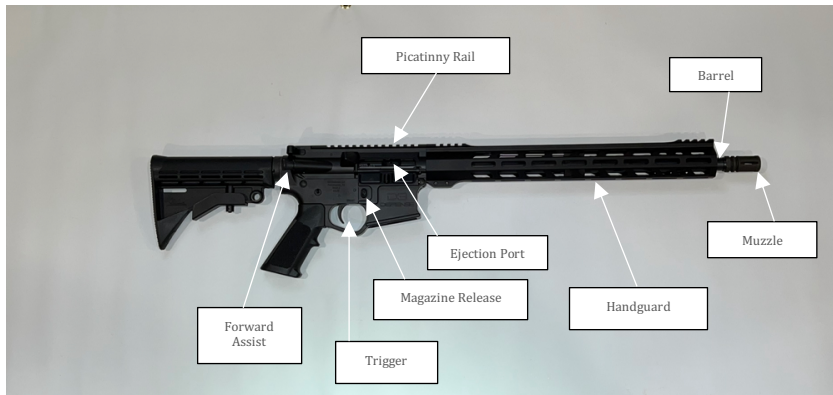
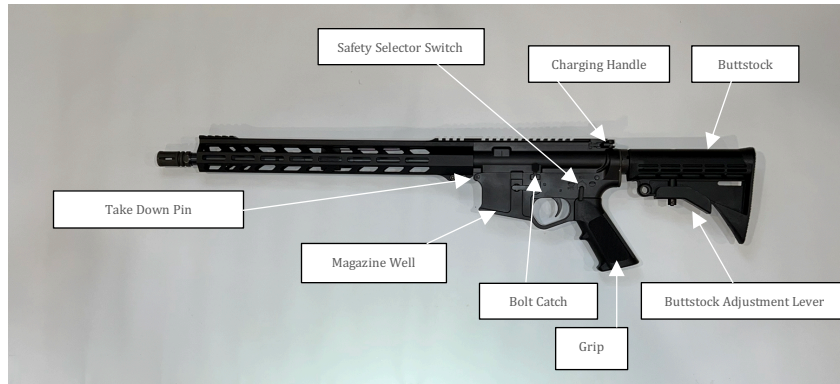


Figure 2 Left Side View



Storing your Rifle

WARNING:

BEFORE STORING, REMOVE THE MAGAZINE AND CLEAR THE CHAMBER.

After clearing the chamber, check that the bolt assembly is in the forward battery position.

Point the gun in a safe direction and check that the trigger is in “FIRE” state.

Close the dust cover.

Store the rifle in its case in a safe area.

If storing your rifle for an extended period of time, use light oil in the barrel and chamber to prevent corrosion.

Function Test

WARNING:

Before performing a function test, remove the magazine and
Clear the chamber. Keep the firearm pointed in a safe direction.

Pull the charging handle fully to the rear and release. Make sure
the bolt assembly returns to the forward (battery) position.

Move the selector to the "SAFE" position.

Pull the trigger to check that the safety and working correctly.

Move the selector to the "FIRE" position.

Pull the trigger to check that the firing pin is working properly.
Note that "dry firing" this rifle will not damage it in any way.

Operating your D3 Model Firearm

Safety Selector



The selector lever, located on the left of the lower receiver, has two
has two positions, "FIRE" and "SAFE". When set to "FIRE" the
Firearm will fire a single shot each time the trigger is pulled. When
set to "SAFE" a cam bears upon the rear of the trigger, blocking
Movements and preventing the hammer from being released.

Loading the Magazine

- Use only quality ammunition.
- With the magazine facing forward, place a round between the lips of
the magazine with the bullet tip forward. Push the round down until
it is held by the magazine lips.
- If necessary, slightly push the round backward to seat it against the
back edge of the magazine lips. Place the next round on top of the
previous round and repeat steps until the desired amount of rounds
is achieved.

Loading your Rifle

WARNING:

Make sure the rifle is pointed in a safe direction and the safety is engaged at all times while loading the rifle. Never allow your fingers or other objects to contact the trigger while loading your rifle. Do not disengage the safety until you are ready to fire and have the rifle pointed safely downrange.

- Press in on the bottom of the bolt catch while pulling back the charging handle. This will cock the hammer which positions the bolt carrier to the rear.
- Return the charging handle fully forward until it locks in place and remove your finger from the bolt latch.
- Set the selector to the “SAFE” position.
- With the bullets pointing forward, insert the loaded magazine into the magazine well and push it up until it stops and is retained by the magazine catch.
- With the rifle pointed in a safe direction, press in on the top of the bolt catch. This will release the bolt carrier and move a round into the chamber. The rifle is now loaded with a round in the chamber and the hammer cocked.
- The ejection port cover (dust cover) can be closed and will open automatically when the first round is fired.
- Do not disengage the safety until the rifle is pointed in a safe direction and you are ready to fire.

Reassembling the Bolt Assembly

Reinsert the bolt into the bolt carrier.

Reinsert the cam pin and rotate 90°

Reinsert the firing pin making sure it is seated completely back.

Reinsert the firing pin retainer.

After assembly, make sure the bolt moves freely and that the firing pin is captured correctly.

Rifle Assembly

Reinsert the charging handle into the upper receiver by aligning the ears of the charging handle with the notch in the upper receiver. Charging handle must be seated at the bottom of the slot in the upper receiver. Slide the charging handle forward approximately ¼”.

With the bolt fully extended, reinstall the bolt carrier group into the upper receiver using the slot in the charging handle as a guide.

Slide the bolt assembly into the forward “battery” position, note that the charging handle moves with the bolt carrier.

Lubricating the Upper and Lower Receivers

Upper Receiver:

Lightly lubricate the inside of the upper receiver, the bore, and chamber (using the cleaning rod and a patch), the outer surfaces of the barrel and front sight, and the surfaces under the handguards. Be sure you lubricate in and around all the locking lugs. The forward assist should also be lightly lubricated inside the receiver and checked for function.

Front Sight Detent (if equipped): Depress and apply two or three drops of CLP to it. Depress the detent several times to work the lubricant down into the spring.

Lower Receiver:

Generously lubricate ALL MOVING PARTS INSIDE THE LOWER RECEIVER including the trigger, hammer, safety, bolt catch magazine release, etc, and their various pins and detents. Don't forget the takedown and pivot pins and their detents. Use an oiled rag to wipe off any fingerprints on the exterior surfaces (they can start the corrosion process). A black cloth is best as it won't leave visible lint.

Lower Receiver Extension: Lightly lubricate inside the lower receiver extension (buffer tube), the buffer and the action spring. Also, lightly lubricate the telescoping stock latch and exterior of the receiver extension.

Firing Your Rifle

Always wear ear and eye protection when firing your weapon.

Load firearms as previously described.

Before firing your rifle, practice your stance, aim, rhythm, and breathing for steady aim with your firearm unloaded.

Grasp the firearm with one hand on the handguard and the other hand on the pistol grip with trigger finger resting alongside the trigger guard. Raise firearm and pull buttstock firmly into shoulder.

Keeping steady aim, place trigger finger on the trigger and squeeze gently until the trigger releases the hammer.

To fire the next round and subsequent rounds, all that is necessary is to release the trigger and squeeze it again after every shot until the magazine is empty.

This is a semi-automatic firearm and is immediately loaded and ready to fire after each shot.

If the bolt fails to lock automatically, press the forward assist button to lock it again.

Once the magazine is emptied, release the trigger, remove finger from trigger, and set the selector lever to "SAFE". If you have fired the last round from the magazine, the bolt carrier will be held to the rear so that you can quickly reload by replacing the magazine or the chamber can be checked to ensure it is empty.

Clearing the Chamber (Unloading)

WARNING:

MAKE SURE THE RIFLE IS POINTED IN A SAFE DIRECTION AND THE SAFETY IS ENGAGED AT ALL TIMES WHILE LOADING THE RIFLE. NEVER ALLOW YOUR FINGERS OR OTHER OBJECTS TO CONTACT THE TRIGGER WHILE LOADING OR UNLOADING YOUR RIFLE.

Press the magazine release to remove the magazine from the rifle.

Press in on the bottom of the bolt catch while pulling. Back the charging handle. This will cock the hammer which positions the bolt carrier to the rear.

If there is a round or a spent cartridge in the chamber, it will be ejected.

Return the charging handle fully forward until it locks in place and remove your finger from the bolt latch.

Set the selector to the "SAFE" position.

Inspect the chamber making sure it is empty.

With the rifle pointed in a safe direction, press in on top of the bolt catch. This will release the bolt carrier.

Close the ejection port cover (dust cover).

Lubricating the Bolt Carrier Group

Firing Pin: Lightly lubricate the firing pin with CLP and also the firing pin recess in the bolt.

Bolt Carrier: Lightly lubricate the inner and outer surfaces of the bolt carrier. Generously lubricate the cam pin area and the slide rail areas of the bolt carrier where they contact the inside of the receiver.

Bolt: Generously lubricate the bolt, its cam pin area, the bolt gas rings. A lighter application is good on the extractor and its pin.

Charging Handle: Lightly lubricate the charging handle and its latch and spring.

Carrier Key: The inside of the carrier key on the bolt carrier should be dried with a q-tip or pipe cleaner – then place one drop of CLP inside.

Cleaning the Lower Receiver

Clean all areas of Powder fouling, corrosion, dirt, and rust. Again, never use a wire brush or any type of abrasive to clean the aluminum lower receiver.

Wipe any dirt from the trigger mechanism. Carefully clean the magazine release button and cavity for the magazine catch on the left side of the receiver. Also, inspect and clean the bolt catch mechanism and receiver's takedown and pivot pins. Clean the buffer, action spring, and inside the lower receiver extension (buffer tube). A piece of rag attached to the cleaning rod and patch holder can be used to wipe inside the buffer tube.

If rifle has been used in very dirty/muddy conditions, the vent hole in the telestock receiver extension may need to be cleaned out. Use a pipe cleaner or piece of wire to ensure that the vent hole is clear.

Buttstocks may require cleaning as necessary. The telescoping stock latch can be pulled down to remove stock. Clean the six position lock holes and lightly lube the receiver extension and latch mechanism to ensure proper telescoping action.

Maintaining your D3 Defense Model Firearm

Rifle Disassembly

WARNING:

BEFORE DISASSEMBLY, REMOVE THE MAGAZINE, CLEAR THE CHAMBER AND MAKE SURE THE FIREARM IS IN THE "SAFE" POSITION.

Make sure the bolt assembly is in the forward position.

Slide the rear take down pin out, the firearm will now pivot forward.

To completely separate the lower receiver from the upper receiver, slide the front pivot pin out.

To disengage and remove the bolt assembly, pull the charging handle back and remove the bolt assembly.

Align the ears of the charging handle with the notch in the upper receiver to remove the charging handle assembly.

Disassembling the Bolt Assembly

Remove the firing pin retainer.

Remove the firing pin.

To remove the bolt cam pin, extend the bolt completely, turn the cam pin 90° (1/4" turn), push bolt back into the carrier so that cam pin clears the gas key, then slide the cam pin out.

Inspect the cam pin for wear.

Before removing the bolt from the bolt carrier, note the orientation of the extractor and ejector.

Once the bolt is removed, inspect the gas rings and lugs for wear. If excessive wear is present, take parts to a certified armorer for repair.

Inspect the bolt gas key to ensure that it is tight. If loose, take it to a certified armorer for repair.

Cleaning and Lubricating your D3 Firearm

Cleaning the Barrel Bore

ALWAYS CLEAN FROM THE CHAMBER TOWARD THE MUZZLE.

Attach three rod sections together but leave each one about two turns short of being tight. Attach the patch holder but leave it two turns short of tight also.

Point muzzle down. Hold the upper receiver in one hand while inserting the end of the rod with a patch holder attached into the chamber. Guide the rod carefully through the bore. CAUTION: Do not let the rod or its threaded end scratch the lining of the bore or firing chamber. About 2-3 inches of the rod should protrude out of the muzzle.

Attach the handle section of the cleaning rod to the end of the rod sticking out of the muzzle and swab out the bore with a patch moistened with CLP (Cleaner, Lubricant, & Protectant).

Remove patch holder and attach bore brush (leaving two turns short of tight).

Pull the brush through the bore and out the muzzle. You should be to see the rod twisting you as you pull it. This is the brush "tracking" in the rifling.

After one pull, take off the handle section and repeat the process. After 3 or 4 pulls, the 3 rod sections and the bore brush may become screwed tightly together. Loosen them up and repeat the process.

Send a patch through the bore occasionally to help clean out the dirt buildup that the brush is getting loose. Just replace the bore brush with rod tip (patch holder) and a wet patch. Pull it through. If you leave the rods loose again, the patch will "track" in the rifling as before. Remember, always have the bore wet with cleaner before trying to pull a brush through. NEVER reverse the direction of the bore brush while it is in the bore.

Cleaning the Upper Receiver, Bolt, Carrier, and Components:

Note: Check to ensure that there is no looseness between the barrel and the upper receiver. If you detect any movement by twisting with your hands, the barrel nut must be retorqued. Bring the rifle to a certified armorer.

Using a CLP type product, clean all areas (inside and out) of powder fouling, corrosion, and dirt. Never use a wire brush or any type of abrasive to clean the aluminum upper receiver. You will scratch and damage the finish.

Clean the firing chamber – dip the larger chamber brush in CLP and use at least 5 plunge strokes and 3-360 degree clockwise rotations. Then swab out the bore as described previously to remove contaminated solution or loosened grime.

Using the bore brush – wet with CLP – to clean carbon and powder residue from around the gas tube. Run a pipe cleaner into the gas tube, clean the bolt locking lugs, bolt rings, firing pin, bolt cam pin, lip of the extractor, and inside the bolt carrier from both front and rear. Clean out the gas key on top of the bolt carrier with a q-tip or pipe cleaner. Also clean out any carbon/powder residue from the vent holes in the bolt carrier. Clean and inspect bolt, cam pin, firing pin, and firing pin retaining pin thoroughly.

Wipe all components clean and dry, and inspect for excessive wear, corrosion or mechanical damage. Have your armorer replace any worn or defective parts before firing.