



## Air Rifle Owner's Manual



**WARNING:** This air gun is recommended for adult use only. Careless use may result in serious injury or death. Dangerous within 510 yards (470 meters). Capable of velocity in excess of 1,000 feet per second (305 m.p.s.)

Read all instructions before using this rifle.

This air gun should only be used by responsible persons 18 years or older.

Use lead pellets only. Compressed air only.

## SPECIFICATIONS

### **AirForce warranty for airguns sold in the United States**

Mailing the enclosed warranty card within 60 days of purchase entitles the original buyer to a warranty covering defects in material and workmanship for the life of the air gun.

Any AirForce Airgun covered by this warranty will be repaired or replaced at the discretion of AirForce, should a defect in material or workmanship be found. Normal wear parts such as O-rings and routine inspection, maintenance and retesting of the air tank are not covered.

Repairs may only be made by the factory or an authorized service station. This lifetime warranty becomes invalid for any gun that is disassembled or modified in any way not specifically authorized by the factory. This lifetime warranty also becomes invalid for any gun that has been damaged by abuse or improper handling. For shipping instructions for warranty service, call 1-877-247-4867. This warranty is not valid for guns used in governmental or commercial applications. A one-year warranty applies in those instances.

## **The Talon SS is not quiet**

Are you firing the SS at power setting six or above? At these settings, the rifle is more powerful than 95 percent of all air rifles and it will make more noise. To check whether the end cap is doing its job, simply remove it as described above and fire the rifle without it. There should be a market difference in the sound level.

Are you standing close to your backstop and confusing the noise made by the pellet with the muzzle report? To test for this, fire a pellet into soft earth someplace safe. There may be a great difference in the report if you don't hear the impact of the pellet.

## **Air leaks from the refill clamp when filling the air tank**

Is the refill clamp bleed valve closed?  
Is the refill clamp fitted squarely to the O-ring in the scuba tank K-valve?  
Is the refill clamp thumbscrew tight?

The hand pump doesn't seem to fill the air tank

Is the tank screwed tightly to the adapter on the pump?  
Are all the adapter seals installed?  
Is the brass bleed screw on the pump base closed?

It can be difficult to determine that the hand pump is filling the air tank when the tank is empty. Air tanks are shipped empty to comply with the law. An empty air tank doesn't SEEM to be filling when you pump the pump. Actually, it takes about 75 pump strokes before you notice that the needle on the pump's gauge is slightly above zero. Once the tank starts to register a charge, you will notice that it takes 14 or 15 pump strokes to raise the tank pressure by 100 psi. That's true at all pressure levels.

## **NOMENCLATURE**

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Was the bolt closed and rotated to one side before firing?  
Is the air tank overfilled, causing valve lock?

Air is leaking from the tank

Install the air tank on the rifle and fire several times without a pellet.

If air continues to leak after this has been tried, it will have to be repaired at the factory.

### **Gun fires but pellet remains in the barrel**

Is the air tank filled?  
Is the barrel free from obstructions?  
Was the bolt closed and turned to one side when you fired?  
Is the pellet of the correct caliber for the barrel?  
Are you sure the pellet did not exit the barrel? Remove the air tank and look through the rear of the barrel to verify that it is still inside.

### **Gun fires with widely varying velocity**

Are all the pellets the same?  
Are the pellets high quality?  
Are you using lead pellets? Synthetic pellets deposit residue in the barrel that can cause velocity variation.  
Are the pellets the correct caliber?  
Is the air tank filled to 3,000 psi? As the tank drops to 2,000 psi, velocity will start to vary more.  
Is the barrel dirty?  
Are you shooting the gun with the power adjuster below the number 3? At those settings, the velocity will vary more—especially if the air tank is low.

When the gun fires, all the air exhausts from the tank

The cause for this is almost always a pellet that was not seated properly in the breech. The skirt is blown against the breech face when high pressure air first hits it and it creates a high pressure seal that forces the valve to remain open.

part and should be separated to perform this operation. Insert one or two dimes in the fill adapter, then screw it on the air tank. As the threads bring the tank and adapter together, the valve will contact the dime(s). Continuing to screw the adapter on the tank will open the valve, exhausting the air inside. Allow this to take as much time as possible, because a rapid exhaust will chill the tank and cause condensation inside. When the tank is completely empty it is safe to ship by any commercial means.

## 8. Safe shooting

All AirForce rifles are extremely powerful and should always be used with a safe backstop. If you are shooting paper targets, a firearm-safe bullet trap is adequate, as long as precautions are taken for safety if the trap is every missed. We recommend you use a trap that will stop a bullet from a .22 long rifle cartridge fired from a rifle.

Never point the muzzle of the rifle at anything you do not intend to shoot. Make this a habit, so you handle an empty gun the same way all the time. If you handle all guns this way, you will protect yourself and others if there should be an accidental discharge at some time.

Pellets from all AirForce rifles will explode into dust and fragments when they hit a hard surface like a steel backer plate in a bullet trap. Always wear safety glasses when shooting into a hard bullet trap.

If you use a “silent” pellet trap with the Talon and Talon SS rifles, make sure the trap has at least two inches of ballistic putty with a steel backed plate behind it. The Condor should never be shot at a “silent” trap made for air gun use.

In the field, avoid targets that will make the pellet ricochet. These can be both hard targets like plywood, trees and the sides of structures to water, snow, ice or the ground when struck at a shallow angle.

## 9. Troubleshooting

### Gun fails to fire when the trigger is pulled.

- Is the gun cocked?
- Has the safety been taken off?
- Is the removable air tank installed?
- Is the tank filled with air?
- Is anything block the valve or the bolt?

**! WARNING:** Always wear eye and ear protection when using this airgun. This includes everyone in the area where shooting is taking place.

**! WARNING:** Modifications to this rifle beyond user adjustments specifically outlined in this manual are not authorized. Any modification or tempering with the gun may cause malfunction and make the gun unsafe for use.

**! WARNING:** Remove the air tank before making any adjustments, except power adjustments, performing any maintenance or adding/removing any accessories.

For repairs contact the manufacturer. You will be given instructions how to return the rifle to the factory or other authorized repair station.

AirForce  
P.O. Box 2478  
Fort Worth, TX 76113  
Tel 817-451-8966  
Fax: 817-451-1613  
staff@airforceairguns.com

### Use of air with the rifle

This air rifle is designed for use with clean, dry compressed air only. The maximum fill pressure is 3,000 pounds per square inch (psi), which is 206 bar. Pressurizing the air tank above this pressure will cause erratic velocities and may damage the rifle. A pressure relief device has been installed in the air valve and can rupture if the internal pressure exceeds 3,000 psi/206 bar.

All AirForce rifles have precision rifled barrels. They will shoot accurately only with good quality lead pellets of the appropriate caliber.

**The use of any projectile other than a lead pellet is unauthorized and will void the warranty.**

## 1. Safety first!

Any gun is dangerous when handled improperly, including an air gun. AirForce air guns are especially powerful, so they must be taken seriously at all times. Review the three safety rules that follow, plus the special warnings that appear throughout this manual.

### 1.1 Air gun safety

Air guns are unique because the gun provides the power for the shot—not the ammunition. NEVER put anything into the barrel of this airgun except high quality lead pellets.

### 1.2 Three important rules

1. Always point the muzzle in a direction that will not cause injury or property damage if the gun discharges.
2. Keep your finger off the trigger until you are ready to shoot
3. Don't load the gun until you are ready to shoot

## 2. Filling the air tank

**The instructions in this manual apply to all four AirForce rifles unless specifically noted.**

### Refill Clamp

### 2.1 The refill clamp

If you fill from a scuba tank that has a K-valve, the AirForce refill clamp is a way to connect your air tank. The square clamp attaches to the K-valve and mates with the O-ring in the scuba tank valve. Once the refill

be pressurized beyond 3,000 psi. Under no circumstances should any gas other than air be pumped into the tank. Oxygen IS NOT the same as air and should never be introduced into the air tank.

The air tank is a pressure vessel that conforms to U.S. Department of Transportation specifications. It must be hydrostatically tested every five years. A date is stamped into the metal of the tank near the neck, giving the month and year of the last hydrostatic test. Contact AirForce for instructions on how to get your air tank tested when the time comes.

AirForce  
P.O.Box 2478  
Fort Worth, TX 76113  
Tel 817-451-8966  
Fax 817-451-1613  
Email [staff@airforceairguns.com](mailto:staff@airforceairguns.com)

Should it ever become necessary to ship the air tank by common carrier (U.S. Postal Service, FedEx, UPS, etc.) it is first necessary to remove all the air. A vessel under pressure is considered hazardous and may not be shipped by normal channels. It is the legal responsibility of the person initiating the shipping to ensure that all air tanks are empty.

To empty the air tank, use the black steel fill adapter that comes with both the AirForce refill clamp and the AirForce pump. It is a separate

## 6.2 Removing or disabling the safety mechanism

The automatic safety mechanism relies on the movement of trigger parts. Disabling or removing any of the safety parts can disable the rifle and will void the warranty.

## 6.3 Modifications to the valve

The valve in AirForce rifles is not a user-maintainable item. Any attempt to remove or modify the valve in any way will void the warranty.

## 6.4 Filling the air tank with a gas other than air

This practice is not recommended and voids the warranty for the rifle.

## 6.5 Cleaning the barrel

An air gun barrel seldom needs cleaning. If you do clean the barrel, use a good quality bore brush of the correct size and use a non-jointed cleaning rod if possible. Do not use cleaning solvents and agents formulated for firearms because they can attack the seals and O-rings, rendering the rifle inoperative.

Shooting felt “cleaning pellets” through the bore does little good for the barrel. The dark material removed in this way is the antioxidant on the surface of the pellets and it is removed by simply shooting more pellets.

## 6.6 Removing jammed pellets from the barrel

Remove the air tank. If the rifle is a Talon SS, remove the end cap to see the true muzzle of the barrel. Always attempt to remove jammed pellets from the breech through the muzzle; only go from the muzzle end if there is not other way. Use a good cleaning rod of the correct size to push the jam out the muzzle. With the Talon SS, the end cap will interfere with this procedure, which is why it was removed first. Try to identify the cause of the jam, so you do not repeat it.

## 7. Maintenance of the air tank and care during shipping

AirForce rifles have a 490c air tank pressurized to 3,000 psi when full. This tank is designed to be filled at all times. You can leave it pressurized to 3,000 psi indefinitely, or you can keep a lower “caretaker” charge of around 2,000 psi in the tank, if you desire.

The air tank is equipped with a safety burst disk that will rupture if the internal pressure gets too high. Under no circumstances should the tank

clamp is attached to the scuba tank, close the bleed screw and screw the air tank into the adapter.

## 2.2 Filling from a scuba tank

With the refill clamp attached to the scuba tank and the rifle’s air tank attached to the refill clamp, open the scuba tank valve very slowly. Allow at least one minute for the tank to fill, which you can watch on the gauge. Do not exceed 3,000 pounds per square inch/206 bar. When the fill is complete, close the scuba tank valve.

To disconnect the air tank from the refill clamp, open the bleed screw. This allows the high pressure air inside the refill clamp to exhaust, making it possible to unscrew the air tank.

Leave the refill clamp on the scuba tank or put it in a box. Either way, keep the clamp assembly as clean as possible.

## 3. Attaching the air tank to the rifle

The removable air tank is also the butt of all AirForce rifles. TO install the tank, push forward on the cocking knob lightly to move the bolt out of the tank’s way. It may help to point the muzzle of the gun toward the ground as you connect the tank. The fast-twist threads make tank installation quick and easy, once you have done it a few times.

## 4. Cocking, uncocking, loading and firing

To cock the rifle, push forward on the cocking knob until the bolt is held in the open position. The automatic safety will engage at this time.

To load a pellet, cock the rifle and leave the bolt forward, exposing the breech. Push a pellet ALL THE WAY into the breech with your thumb or a pellet-seating tool. This is important because a pellet not pushed in all the way can hold the valve open when the rifle fires, exhausting all the air from the tank.

After loading, slide the bolt all the way back and rotate it into either notch at the rear of the cocking slot. This indicates the bolt is all the way back.

To fire, mount the rifle to your shoulder, take aim, release the safety and squeeze the trigger until the rifle discharges.



**!** **WARNING:** Do not release the safety unless the rifle is pointed in a safe direction. Safe means that if the gun discharged it would not cause injury or property damage. Mechanical safeties are not infallible and do not replace the need for responsible gun handling practices.

## 5. Adjusting power

Power can be adjusted with the power adjust wheel. Power does not adjust evenly as the numbers increase and decrease. Rather, there are zones at which the power settles into a velocity range. For the most precise settings, use a chronograph when adjusting power and note what setting gives what velocity with a particular pellet.

If you do not have a chronograph, the following settings are normally good ones.

## Talon and Talon SS

Numbers 3 and 4 on the power scale give a good target shooting velocity. Number 6 is a great spot for general shooting. Number 9 or 10 is about as high as the SS will go and still produce many shots. Above 10, air is wasted. Either rifle fitted with an optional 24-inch barrel may be adjusted up as far as the indicator will go.

On the highest power setting, you should get about 35 shots per fill before the velocity begins to drop. On the medium setting, 65 to 75 shots are possible and on the lowest setting well over 200 shots. With a chronograph, you can refine these numbers for your individual rifle.

## Condor

The Condor is made for power. It will shoot heavy pellets as fast as most other air rifles shoot lightweight pellets. When you shoot the heaviest pellets, you can dial the power up all the way and the rifle will be capable of great power with fine accuracy.

You can get about 15 shots at the highest power setting, and up to 20 shots if you are willing to accept a broader velocity range. The thing to do is shoot the rifle at a great distance, perhaps 50 yards or more, and see how many shots will group well before the lowering velocity starts to lower the impact point of the pellet.

The Condor can also be dialed way down in power and still shoot light to medium weight pellets quite fast.

## 6. Operational Tips

### 6.1 Power adjustments

The rifle needs one shot to settle down following a power adjustment. After that, it should give shots at a consistent velocity.