

## Badger .40 Caliber Air Rifle

Congratulations! Thank you for purchasing our air rifle. The information you need to operate and care for this air rifle is included in these instruction pages. Please read before you use the air rifle. If you have any questions about its operation contact us. We want you safe and pleased with your purchase.

### **SAFETY PRECAUTIONS**

PLEASE READ THE ENTIRE OPERATOR'S / OWNER'S MANUAL BEFORE ATTEMPTING TO OPERATE YOUR AIR RIFLE.

## **Caution:**

NOT A TOY. ADULT SUPERVISION REQUIRED. MISUSE OR CARELESS USE MAY CAUSE SERIOUS INJURY OR DEATH. MAY BE DANGEROUS UP TO 350 YARDS (320 METER).

### **THIS AIR RIFLE IS PRE-CHARGED WITH OVER 1000 PSI AIR PRESSURE!**

We ship the air rifle with a minimum of 1000 psi to keep the air valves closed during shipping.

Any gun is dangerous when handled improperly. This air rifle is not a toy. It has lethal power and handled improperly can kill or maim. Just the air discharge, without a bullet, can do serious damage.

The energy to shoot this air rifle is stored in the air reservoir (the bottom tube). This makes it completely different from a firearm. The ammunition is simply a projectile. Anything placed in the barrel becomes as dangerous as a bullet. NEVER leave anything in the barrel of this airgun that you do not intend to shoot out!

- Always treat the rifle as if it is loaded.
- Always check to see if rifle is loaded when removed from storage or received from another person.
- Always wear shooting glasses when operating any gun, both shooters and spectators.
- Always keep the muzzle of the air rifle pointed in a safe direction.
- Always keep the safety engaged until you are ready to shoot.
- Never load a bullet into the rifle until you are ready to shoot.
- Never point your rifle, charged or uncharged, loaded or unloaded, with safety on or off, at or near anything you do not intend to shoot.
- Never allow others to use or inspect your rifle without first instructing them in the fundamentals of safe use.
- Never make any trigger adjustments with the rifle cocked or loaded.

## **OPERATION AND MAINTENANCE**

### **Charging the Air Rifle**

The Badger .40 can be charged with compressed air, nitrogen or helium. Scuba tanks should be filled with dried air from a high-pressure compressor equipped with moisture removing filters. Hand pumps require an inlet desiccant filter to prevent moisture from entering the rifle. Moisture will cause rust and corrosion and is not covered under warranty.

### **Filling Procedure**

**DO NOT COCK AND DRY FIRE THE AIR RIFLE WHEN THE AIR RESERVOIR IS COMPLETELY EMPTY.** This can potentially damage the air rifle.

1. Check the air rifle to make certain it is unloaded. *Never fill the gun if it is loaded.*
2. Attach the fill hose quick coupler to the fill port nipple on the front of the reservoir.
  - a. If there is no air in the reservoir, the air rifle must be cocked with the trigger safety on (see 1. in next section). *The hammer and hammer spring will hold the air valve open if the air rifle is not cocked and air will leak out the muzzle.*
  - b. If the air pressure is high enough to hold the main air valve closed, then cocking is not necessary to refill the reservoir.
3. Open the valve on the fill tank and fill the gun slowly. *A slow fill keeps the reservoir seals cool so they will last longer. A fast fill generates heat that can harden the seals over time, eventually causing leaks.*
4. Monitor the gauge until it reads the desired pressure, then close the fill tank valve.
5. To disconnect the fill hose, release the air pressure in the air line by using the pressure bleed-off valve.
6. The air rifle is now charged with air and ready to shoot.

### **Uncocking Procedure**

There are times when you will want to uncock the air rifle, i.e. for storage or after filling with air.

- When the air rifle is uncocked, there will be tension on the bolt knob once it is pushed up and you are trying to pull it back. The breech will not be accessible.
- When the air rifle is cocked, there should be no tension on the bolt knob, easily sliding back and forth, exposing the breech.

Please observe all safety precautions listed above while doing the following uncocking procedure:

1. Pull the bolt knob up and back all the way without releasing the bolt knob with your hand.
2. Now, pull the trigger with your other hand (still holding onto the bolt knob) while gently allowing the bolt knob to move forward until it stops. The breech should now be closed and the rifle should be uncocked.

## Shooting The Air Rifle

1. To open the breech, pull the bolt knob up and back all the way until you hear the click of the trigger engaging. *This does two things, it opens the breech for the bullet and cocks the air rifle, preparing it to be fired. When the trigger is engaged, the bolt will easily slide back and forth with no tension. If the trigger will not engage, it may have to be reset. Sometimes the trigger will catch the sear before it is completely reset. To reset the sear, simply pull the trigger, observing all the safety precautions listed above. There should a click. Now when the bolt knob is pulled up and backward all the way, the trigger should engage the sear.*
2. Place a bullet in the breech opening, between the bolt and the barrel opening.
3. Push the bolt knob forward and down to lock the breech. *There will be a slight resistance as the bolt o-ring seals into the barrel behind the bullet.*
4. Disengage the safety and fire safely. After shooting 3-5 shots (this will vary with the weight of the bullet), refill the reservoir to keep full power.

If the bolt knob does move forward and lock down properly due to an oversized bullet, DO NOT SHOOT THE RIFLE. Uncock the air rifle and put the safety on. Open and unlock the breech and slide a 3/8" wooden dowel rod (or something comparable) down the end of the barrel until it stops on top of the bullet. Carefully tap on the dowel rod. If the bullet will not move, take it to a qualified gunsmith to have it removed. Remember, there is lethal energy stored in the air reservoir and the air rifle must be handled with caution.

Do not shoot the air rifle if the breech is open or unlocked as the potential for injury is great.

The Badger .40 has graded fasteners installed to minimize any possible damage to the rifle if fired with the breech open. However, the escaping high pressure air burst can potentially cause a serious injury.

## Trigger Adjustments

All adjustments are made with the safety and stock removed. To remove the safety, put the rifle on safe and push/tap it out toward right hand side.

- ❑ **Top Screw:** Take-up or sear engagement. *Turning the top screw clockwise to reduce or counter-clockwise to increase engagement. The factory presets the sear engagement are about 0.125".*
- ❑ **Middle Screw:** Overtravel adjustment. *Turn the middle screw clockwise to reduce or counter-clockwise to increase overtravel of the trigger beyond the point where the trigger releases sear. The middle screw can be turned clockwise too far which will prevent rifle from firing. It is recommended that overtravel be minimal for best trigger feel. The factory presets the overtravel for about 0.25".*
- ❑ **Bottom Screw:** Tension adjustment. *Turn the bottom screw clockwise to increase or counter-clockwise to decrease trigger pull weight. The factory presets the trigger pull weight for about 4 lbs. **Warning: the trigger on this rifle is capable of being set below two (2) lbs. Accidental discharge can occur if the rifle is dropped.***

Modification of the rifle's mechanism may cause the rifle to malfunction. Tampering with the rifle may make it unsafe to use. Any change in the performance such as lowered trigger force and shorter trigger travel indicates possible wear and as such should be inspected, replaced or properly repaired.

## **Recommended Ammunition**

Bullets can be made from any kind of lead, hard or soft.

Round balls should be .395" diameter. These are available from several manufacturers: Hornady and Speer are the most common brands.

Bullets should be .401" diameter. The Badger .40 will shoot conical, wad-cutter, hollow point, flat nose, flat nosed conical. Weights from the 92 grain round balls to 250+ grains bullets will shoot successfully.

## **Care and Cleaning**

Cleaning the Badger .40 is easy. The barrel is chrome-moly steel, the same material used in black powder rifle barrels. Standard cleaning tools can be used. **DO NOT USE SOLVENTS ON THIS AIR RIFLE.** It will damage rubber seals inside the air rifle. Apply oil to the Badger .40 to prevent any corrosion.

## **TECHNICAL SPECIFICATIONS**

Type:	single-shot bolt action rifle
Power Source:	compressed air or inert gas
Fill Pressure:	300 bar or 4320 psi maximum
Trigger:	single-stage, three way adjustable
Safety:	trigger block safety, lever actuated
Weight:	8 lbs. Approximately
Sights:	2 piece Weaver #18 mounts (Scope not provided)
Length:	46" approximately
Barrel:	.401" rifled
Fasteners:	all fasteners are metric