

AV-46M

Single-stroke Pneumatic Pistol

Owner's Manual



Air
venturi
The Power of Air

READ THIS MANUAL AND THE WARNINGS AND SAFETY PROCEDURES PRIOR TO HANDLING THIS PRODUCT.

! WARNING: THIS AIRGUN IS NOT A TOY AND IS DESIGNED FOR USE BY EXPERIENCED SHOOTERS AND IS INTENDED FOR MATCH COMPETITION OR TARGET RANGE USE. MISUSE OR CARELESS USE MAY RESULT IN SERIOUS INJURY OR DEATH. DANGEROUS WITHIN 450 YARDS (412 METERS).

! WARNING: DO NOT BRANDISH, HANDLE IN A THREATENING MANNER, OR DISPLAY AN AIR GUN IN PUBLIC. THE AIR GUN COULD BE MISTAKEN FOR A REAL FIREARM CAUSING AN ARMED RESPONSE FROM LAW ENFORCEMENT. THIS COULD CAUSE INJURY OR DEATH. DISPLAYING AN AIR GUN IN PUBLIC MAY VIOLATE STATE OR LOCAL LAWS AND COULD RESULT IN ARREST.

! WARNING: THE AV-46M IS A MATCH PRECISION AIR GUN AS DEFINED BY ASTM F589. IT IS EXEMPT FROM THE 3LB (1,35 KG.) MINIMUM TRIGGER PULL, SAFETY MECHANISM AND DROP TEST REQUIREMENT. IMPROPER ADJUSTMENT CAN LEAD TO THE GUN FIRING IF DROPPED.

! WARNING: THIS AIRGUN IS INTENDED FOR USE BY THOSE 16 YEARS OF AGE OR OLDER.

! WARNING: ANY CHANGE IN PERFORMANCE OF YOUR AIR GUN, SUCH AS LOWERED TRIGGER FORCE AND SHORTENED TRIGGER TRAVEL, INDICATES POSSIBLE WEAR. IN ANY SUCH INSTANCE, YOUR AIR GUN SHOULD BE INSPECTED, REPLACED OR PROPERLY REPAIRED. INSPECTION AND REPAIRS SHOULD ONLY BE PERFORMED BY QUALIFIED PERSONNEL.

! WARNING: CHECK ANY GUN THAT HAS BEEN DROPPED TO ENSURE IT'S FUNCTION HAS NOT BEEN ALTERED.

! WARNING: THIS PRODUCT CAN EXPOSE YOU TO CHEMICALS INCLUDING LEAD, WHICH IS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM. FOR MORE INFORMATION GO TO WWW.P65WARNINGS.CA.GOV

RULES OF SAFE SHOOTING

1. Never point at people or animals even if the air gun is not loaded.
2. Air guns are not toys. They should only be used under adult supervision. Safety is a straightforward but continuous process.
3. **THIS AIR GUN DOES NOT HAVE A SAFETY. YOU ARE THE ULTIMATE SAFETY FOR YOUR GUN.**
4. Always aim at a safe target, taking care that it does not conceal any other object, and that the background will not produce ricochets.
5. Always keep fingers away from the trigger during cocking and handling.
6. Do not load the air gun until you are ready to fire. Do not walk, run or jump when carrying a loaded air gun. A loaded air gun should never be carried inside a vehicle.
7. You and others with you should always wear safety glasses to protect your eyes.
8. After use and before putting the air gun away, always make absolutely sure that there are no pellets in the chamber.
9. The air gun and pellets should be kept in separate places, if possible under lock and key.
10. **ALWAYS KEEP THE AIR GUN AND/OR PELLETS OUT OF THE REACH OF CHILDREN.**
11. Do not fire at a target which allows ricochets or deflections. Do not fire into or at water.
12. Air guns should not be used when the user is under the influence of alcohol or drugs.
13. Before firing, always make sure that there are no persons or animals behind the target which could be harmed by the pellets.
14. Do not tamper with or modify any of the parts of this air gun. If a malfunction should occur, contact Air Venturi: 216-220-1180. Do not attempt to repair, since special tools are needed and this could be dangerous.
15. Improper use or handling of air guns will not, under any circumstances, be the responsibility of the manufacturer or distributor. **THE USER WILL BE SOLELY RESPONSIBLE FOR ANY HARM WHICH MAY BE CAUSED.**
16. Think first, fire second.
17. **THE USE OF THIS AIR GUN IS NOT RECOMMENDED FOR PERSONS UNDER 16 YEARS OF AGE.**
18. **DO NOT** inhale dust from lead pellets or put lead pellets in the mouth. Wash hands after handling lead. Lead pellets contain lead, a chemical known to the State of California to cause cancer and birth defects (or other reproductive harm).
19. Use the correct pellet size for your airgun. Never reuse pellets. The use of any other kind of ammunition can cause injury to you or cause damage to your airgun.
20. **DO NOT** assume your airgun is unloaded if it fails to fire properly!
21. **NEVER** leave your airgun loaded. Always treat an airgun as if it is loaded, even if you think it is not. Always transport your airgun unloaded and in a hard case.
22. **DO NOT** use this airgun until you have read and understood this owner's manual.

READ THIS MANUAL AND THE WARNINGS AND SAFETY PROCEDURES PRIOR TO HANDLING THIS PRODUCT.

Always choose your target carefully. It is best to shoot at paper targets attached to a safe backstop or a trap intended to safely stop and/or capture airgun ammunition. Your backstop should be checked for wear before and after use. Replace your backstop if the surface is worn or damaged or if a ricochet occurs.

DO NOT disassemble, tamper with or attempt to repair or modify your airgun. Doing so may void your warranty and may result in injury. Contact Air Venturi at 216-220-1180 for repair.

In the unlikely event your airgun malfunctions or exhibits reduced performance, **DO NOT** attempt to fix the problem yourself. Call Air Venturi at 216-220-1180 - so we can address any issues or have you return your airgun for repair.

Children are attracted to and can operate guns that can cause severe injuries or death. Prevent child access by always keeping guns locked away and unloaded when not in use. If you keep a loaded gun where a child obtains and improperly uses it, you may be fined or sent to prison.

ABOUT

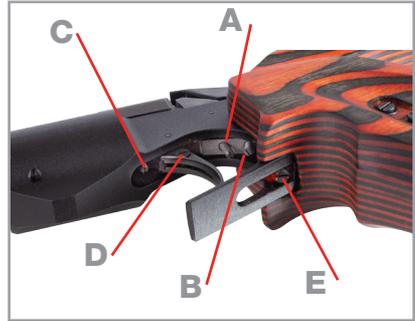
The **AV-46M** is a .177-caliber, single-stroke pneumatic air pistol. Compressed air is forced into a chamber through the full movement of the pump lever. Do not pump it more than once per shot. Pump and cock it only when you are ready to shoot. Move the pump lever fully and return it to its resting position. This air pistol is cocked in the final few degrees of pump lever movement. Read and follow these directions to safely use and maintain your airgun and to get the most enjoyment from it.

PARTS OF THE GUN



TRIGGER ADJUSTMENTS

The trigger is adjustable in several ways. As you adjust one aspect, the others will change, as well. The screw behind the trigger blade adjusts the overtravel (A). The screw behind that adjusts the location of the second stage (B). The screw in front of the trigger blade adjusts the length of the first stage pull (C). You MUST adjust the length of the first-stage pull (C) and the location of the second stage (B) together, or you will introduce a false second-stage stop. The large screw at the top of the trigger blade allows repositioning of the blade (D). Trigger-pull weight is adjusted by the large screw at the bottom rear of the trigger guard (E).



! WARNING: ALWAYS BE SURE TO KEEP THE PISTOL POINTED IN A SAFE DIRECTION.

! CAUTION: TAKE CARE WHEN MAKING TRIGGER ADJUSTMENTS IF THE TRIGGER IS ADJUSTED TOO LIGHT, THE PISTOL MAY NOT COCK OR IT MAY FIRE WHEN CLOSING THE BOLT MECHANISM.

DRY-FIRING

The pistol may be safely cocked and dry-fired for training and trigger adjustment by releasing the bolt and pulling it up until the trigger cocks. Return it as if you were firing a pellet, and the trigger will fire without air being exhausted.

ADJUSTING THE PALM SHELF

To adjust the palm shelf, loosen the two screws that hold it in place. Adjust to a comfortable position for your hand, and tighten the two screws. Take care not to over tighten these screws. The palm shelf can also be removed if the shooter prefers by removing the two screws completely.



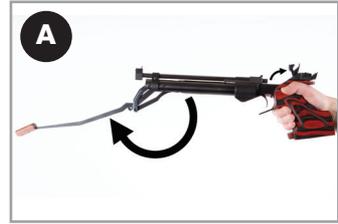
SIGHTS

The sights are metal. The front sight is fixed. The rear sight is adjustable for windage and elevation.



HOW TO COCK, LOAD & CLOSE YOUR AIR PISTOL

1. Point the pistol in a safe direction. Holding the pistol grip with your dominant hand with your trigger finger indexed away from the trigger and bolt, grasp the pump lever in your non-dominant hand and pull the pump lever forward until the bolt pops up to a 90 degree angle. Be sure not to exert more force than necessary on the pump lever to avoid damaging your air pistol. (Fig. A).



2. With the bolt open, pull back on the pump lever and return it to the closed position. As you pull back on the lever, you will experience resistance, this is normal as you are now compressing air that will be used to fire the pellet. If you do not feel resistance, then it is likely that you did not fully cock the gun. Keep your hands and fingers clear of the trigger and bottom of the grip when returning the pump lever to a closed position. (Fig. B).



3. Load a .177 caliber pellet head first into the breech end of the barrel. Be sure to seat the pellet fully into the barrel, ensuring the skirt of the pellet is flush or inside of the end of the barrel. (fig. C).



4. Close the bolt by pressing it down (Fig. D) until it locks into place (Fig. E). If you do not lock the bolt into place, your pistol will discharge air but will not fire the pellet. As there is no manual safety on this air pistol, leaving the bolt open until you're ready to fire is a recommended practice to avoid accidental discharge.



5. Point the airgun in a safe direction, take aim, and squeeze the trigger until the pistol fires.



Illustrations and photographs are for information purposes only and may not show the exact model purchased.

STORAGE & MAINTENANCE

When storing the pistol, it is recommended that you leave the bolt unlocked. To achieve this, slide the bolt latch forward until the bolt is released.



Before doing any maintenance on your airgun, make sure it's unloaded. Lubricate the air compression chamber with a high-flashpoint oil designed specifically for use inside an air compression chamber. Put 3 drops of oil on the pump head, which you can see when the pistol is upside down and the pump lever is extended. Lubricate the air compression chamber and air compression seal. Following the cocking instructions, cock the air pistol. Apply a few drops of oil onto the compression seal. Oil the airgun after every 500 shots.



It is also recommended to lubricate the pump arm linkage and bolt pivot points with machine oil every six months.

WARRANTY

Your Air Venturi AV-46M pistol is manufactured to the highest standards, using quality materials to give a lifetime of service. In the unlikely event there are any defects in materials or workmanship in the first twelve (12) months after retail purchase, we will repair or replace your airgun under warranty. Keep your original purchase receipt to obtain warranty repairs.

What is covered: Replacement parts and labor. Transportation charges to consumer for return of repaired product.

- **The warranty will be invalid if:**
- **The airgun has been disassembled and incorrectly reassembled.**
- **The airgun is found to have lubrication not recommended by Air Venturi.**
- **The airgun has been fitted with non-Air Venturi parts.**
- **The airgun has been misused or abused.**
- **The original purchase receipt cannot be presented.**

The warranty does **NOT** cover:

- **O-rings, screws, seals, springs or stocks.**
- **Any damages or faults caused by owner misuse or action.**
- **Shipment damage of the airgun to or from Air Venturi.**
- **Transportation charges to Air Venturi for defective products.**
- **Damages caused by abuse or failure to perform normal maintenance.**
- **Parts subject to normal wear and tear.**
- **Consequential damages, incidental damages or incidental expenses including damage to property.**
- **Any other expense.**

Note: Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty is in addition to your statutory rights. To register your warranty, the card below must be completed and returned to Air Venturi within 30 days of purchase. Retain your sales receipt as proof of purchase.

Warranty claims for U.S. and Canadian Customers: Call Air Venturi at 216-220-1180 before returning any product.

Implied warranties: Any implied warranties, including the implied warranties of merchantability and fitness for a particular purpose, are limited in duration to one year from date of retail purchase.

Note: Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

To the extent any provision of this warranty is prohibited by federal, state or municipal law which cannot be preempted, it shall not be applicable. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state and country to country.

