



WING SHOT

.50 CALIBER
PRECHARGED
PNEUMATIC
SMOOTHBORE
SHOTGUN

AV-SG001

User Instruction Manual



MODEL: AV-SG001
NAME: Wing Shot
BRAND: Air Venturi
DESCRIPTION: PCP Airgun
FILL PRESSURE: 3,000 psi (206 bar)

**READ ALL INSTRUCTIONS AND WARNINGS IN THIS MANUAL BEFORE USING THIS AIRGUN.
THIS INFORMATION COULD SAVE YOUR LIFE AND THE LIVES OF OTHERS.**

! WARNING:

NOT A TOY. ADULT SUPERVISION REQUIRED. MISUSE OR CARELESS USE MAY CAUSE SERIOUS INJURY OR DEATH. MAY BE DANGEROUS UP TO 1000 YARDS (915 METERS).

THIS IS A HIGH POWERED AIRGUN INTENDED FOR USE BY THOSE 18 YEARS OF AGE OR OLDER.

READ ALL INSTRUCTIONS BEFORE USING. BUYER AND USER HAVE THE DUTY TO OBEY ALL LAWS ABOUT THE USE AND OWNERSHIP OF THIS AIRGUN.

! WARNING:

DO NOT BRANDISH OR DISPLAY THIS AIRGUN IN PUBLIC; IT MAY CONFUSE PEOPLE AND MAY BE A CRIME. POLICE AND OTHERS MAY THINK IT IS A FIREARM. DO NOT CHANGE THE COLORATION OR MARKINGS TO MAKE IT LOOK MORE LIKE A FIREARM. THAT IS DANGEROUS AND MAY BE A CRIME.

CAUTION: YOU AND OTHERS WITH YOU SHOULD ALWAYS WEAR SHOOTING GLASSES TO PROTECT YOUR EYES.

CAUTION: ALWAYS USE THE CORRECT CALIBER AMMUNITION THAT IS SUITABLE FOR THE AIRGUN. USE ONLY AMMUNITION DESIGNED FOR THIS AIRGUN.

Congratulations on your purchase of the **AV-SG001 Air Venturi Wing Shot .50 Caliber PCP Shotgun**. Please read this instruction manual completely. Always carefully follow the safety instructions found in this manual and keep this manual in a safe place for future use.

If you have any questions regarding your new PCP Airgun, please contact the Air Venturi service line at 216-220-1180.

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1. Rules of Safe Shooting

- NEVER point the airgun at any person.
- NEVER point the airgun at anything you do not intend to shoot.
- ALWAYS treat the airgun as if it was loaded and handle it with the same respect you would a firearm.
- ALWAYS aim in a SAFE DIRECTION. ALWAYS keep the muzzle pointed in a SAFE DIRECTION.
- NEVER put any part of your hand over the muzzle.
- ALWAYS keep the airgun ON “SAFE” until you are ready to shoot in a SAFE DIRECTION.
- Check behind and beyond your target to be certain you have a safe backstop and that no person or property can be endangered.
- Place the backstop in a location that will be safe should the backstop fail.
- Replace the backstop if it becomes worn.
- ALWAYS be sure of your target and what lies beyond it in case you miss.
- NEVER shoot at hard surfaces, water or anything else that may cause a ricochet.
- This airgun may only be used where your local laws permit or at shooting ranges allowed by the law, and only if the ammunition does not travel further than the shooting area. Keep in mind the maximum range of the ammunition. ALWAYS abide by laws and regulations that apply to airguns.
- ALWAYS check to see if the airgun is ON “SAFE” and unloaded when getting it from another person or from storage.
- ALWAYS keep your finger off the trigger and away from the trigger guard until ready to shoot.
- You and others with you should ALWAYS wear safety shooting glasses to protect your eyes.
- If your reading or prescription glasses are not certified safety glasses, make sure you wear shooting glasses over your regular glasses.
- The shooter and everyone in the vicinity should wear hearing protection when shooting **and** filling guns with high-pressure air.
- NEVER load your gun until you’re ready to shoot and it’s safe to do so.
- ALWAYS use the correct caliber ammunition that is suitable for the airgun. Use **ONLY** ammunition designed for this airgun.
- NEVER reuse ammunition.
- ALWAYS store the airgun with the safety ON “SAFE” , unloaded, uncocked, separated from the ammunition, out of the reach of children, and in a secure location to prevent unauthorized people from accessing it.
- **DO NOT** attempt to disassemble or tamper with the airgun.
- **DO NOT** put the airgun away loaded. **It is, however recommended that you store your Air Venturi airgun with at least 1,000 psi of high-pressure air.**
- ALWAYS store this airgun in a safe location.
- ALWAYS store ammunition separately from the gun.
- NEVER leave the airgun loaded if it is out of your reach.
- ALWAYS unload the airgun before giving it to someone else.
- ALWAYS read and follow the manufacturer’s manual and instructions.
- NEVER let a person who has not completely read this manual use this product.

2. Customer Service - Troubleshooting

DO NOT use this PCP Airgun until you have read and understood this owner's manual.

In the unlikely event your PCP Airgun malfunctions or exhibits reduced performance, DO NOT attempt to fix the problem yourself. Please call Air Venturi to address any issues. You may be asked to return the gun for repair.

Air Venturi service line: 216-220-1180

TROUBLESHOOTING						
SHOOTING ISSUE	POTENTIAL CAUSE					
	<i>Safety is on</i>	<i>Air Pressure is low</i>	<i>Slide not properly closed & locked</i>	<i>Using incorrect ammunition</i>	<i>Barrel requires cleaning</i>	<i>Hammer in Half Cocked/ Low Power Position</i>
ACCURACY ISSUES	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
DOES NOT FIRE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
LOW VELOCITY		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

3. Learning the Parts of the Air Venturi PCP Airgun

Learning the names of the parts of your new PCP Airgun will help you to understand the instruction manual.

1. Barrel
2. Muzzle
3. Air Chamber
4. Bead
5. Forend
6. Receiver
7. Stock
8. Buttpad
9. Trigger
10. Trigger Guard
11. Safety
12. Bolt
13. Breech
14. Choke
15. Quick-Fill



Figure 1

Figure 2

4. Operating the Safety

! WARNING: BE SURE THE AIRGUN IS ALWAYS POINTED IN A SAFE DIRECTION. NEVER POINT THE AIRGUN AT ANYONE EVEN IF IT IS UNLOADED. ALWAYS ASSUME AND HANDLE THE AIRGUN AS IF IT WERE LOADED AND READY TO FIRE.

NOTE: ALWAYS think about safety first. Take your time. If you are uncertain how to proceed, stop and contact Air Venturi for assistance! **Air Venturi service line: 216-220-1180**

TIP: To become familiar with the safety, practice putting it on and off several times while the gun is unloaded.

4.1 Put the Airgun ON “SAFE”

- **ALWAYS** point the airgun in a safe direction.
- Locate the cross-bolt safety on the **LEFT** side of the gun, directly behind the trigger as shown in Figure 3.
 - The cross-bolt safety is marked with a **red ring** on the left side of the gun.
- Push the bolt completely to the **RIGHT** so the red ring **IS NOT** visible. The gun is now ON “SAFE.”
- The safety **IS NOT** ON “SAFE” if the red ring is visible.

Figure 3



CAUTION: LIKE ALL MECHANICAL DEVICES, AN AIRGUN SAFETY CAN FAIL. EVEN WHEN THE SAFETY IS ON “SAFE”, YOU SHOULD CONTINUE TO HANDLE THE AIRGUN SAFELY. NEVER POINT THE AIRGUN AT ANY PERSON. NEVER POINT THE AIRGUN AT ANYTHING YOU DO NOT INTEND TO SHOOT.

4.2 Take the Airgun OFF “SAFE”

- **ALWAYS** point the airgun in a safe direction.
- Locate the cross-bolt safety on the **RIGHT** side of the gun, directly behind the trigger as shown in Figure 3.
 - The cross-bolt safety is marked with a **red ring** on the left side of the gun.
- Push the bolt completely to the **LEFT** so the red ring **IS** visible. The gun is now OFF “SAFE” and ready to fire.
- The airgun is OFF “SAFE” and ready to fire when the red ring **IS** visible.

NOTE: The 2-stage trigger is non-adjustable.

! WARNING: KEEP THE AIRGUN ON SAFE UNTIL YOU ARE READY TO SHOOT, THEN PUSH THE SAFETY OFF.

5. Install Cocking Bolt

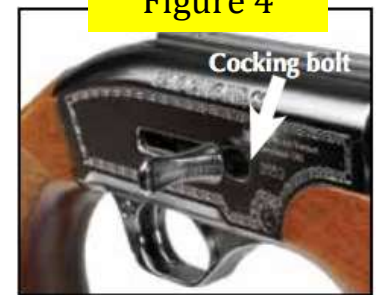
NOTE: ALWAYS think about safety first. Take your time. If you are uncertain how to proceed, stop and contact Air Venturi for assistance! **Air Venturi service line: 216-220-1180**

CAUTION: BEFORE INSTALLING THE COCKING BOLT MAKE CERTAIN THE AIRGUN IS UNLOADED.

- 5.1 Take the Safety OFF “SAFE”
 - ALWAYS point the airgun in a safe direction.
- 5.2 With the front sight of the gun on your left, insert a ¼ inch hex key or screwdriver into the cutout in the hammer tube (right side of the receiver).
 - Push the hammer back to the first click (low-power position).
 - See “Cocking/Uncocking Airgun in section 8.
- 5.3 Insert the cocking bolt as shown in Figure 4.
 - Line up the cocking bolt opening with the screw hole in the hammer.
- 5.4 Install the screw
 - With a No. 2 Philips screwdriver, install the included 4mm screw and tighten securely.



Figure 4



6. Fill/Charge Airgun with Hand Pump

! WARNING: FILL YOUR AIR VENTURI PCP AIRGUN USING COMPRESSED AIR OR NITROGEN GAS ONLY. USE OF OTHER GASES, INCLUDING OXYGEN, CAN CAUSE A FIRE OR EXPLOSION THAT MAY RESULT IN PROPERTY DAMAGE, SERIOUS INJURY OR DEATH.

! WARNING: DO NOT FILL AIRGUN WITH OXYGEN OR ANY GAS OTHER THAN COMPRESSED AIR OR NITROGEN GAS! FILLING WITH ANYTHING OTHER THAN AIR IS DANGEROUS AND WILL VOID YOUR WARRANTY.

! WARNING: DO NOT EXCEED MAXIMUM FILL PRESSURE OF 206 bar/3,000 psi AT ROOM TEMPERATURE!

NOTE: ALWAYS think about safety first. Take your time. If you are uncertain how to proceed, stop and contact Air Venturi for assistance! **Air Venturi service line: 216-220-1180**

NOTE: To ensure safe operation, avoid distractions such as children or animals when refilling your rifle. Be sure the rifle is unloaded before filling. Wear safety glasses and hearing protection when filling with high-pressure air.

CAUTION: NEVER FILL YOUR AIRGUN OVER 206 BAR/3,000 PSI. THIS IS DANGEROUS AND WILL VOID THE WARRANTY. In an over-filled condition (above 206 bar/3,000 psi), the regulator may malfunction and cause the rifle to fire at a much lower velocity.

NOTE: When filling the airgun for the **FIRST TIME**, you must cock the rifle before filling it if the gun was shipped unpressurized.

Figure 5



6.1 Locate, but **DO NOT REMOVE**, the quick-fill dust cap at the end of the air reservoir tube below the barrel as shown in Figure 5. **DO NOT REMOVE IT!**

- Pull the quick-fill dust cap off the end of the air chamber to expose the male receptor port as shown in Figure 6.
- After you've completed filling the airgun, push the quick-fill dust cap back on to close off the receptor port. Any dirt that enters could cause valve failure.

Figure 6



6.2 Lay the airgun next to the hand pump, making sure the airgun is pointed in a **SAFE DIRECTION**.

- The pump should be within easy reach of the male receptor port of the airgun.

6.3 Hand-tighten the bleeder valve on the base of the hand pump.

6.4 Carefully insert the pump adaptor from the hand pump hose into the airgun's exposed male receptor port.

6.5 Put 12 pump strokes into the airgun. This should prime the pump hose enough so you can take an initial reading of the airgun's current pressure level as shown in Figure 7.

- If you hear air leaking, carefully check all connections. If you cannot resolve the air leaks, contact the retailer that sold you the pump for troubleshooting assistance.

Figure 7



6.6 Begin pumping in 20 stroke sets, taking a reading each time of the pressure level on the manometer, and allowing at least a 2-minute cooling period between each set, especially when the pressure reaches 172 bar/2,500 psi.

- **DO NOT** exceed 206 bar/3,000 psi.
- The best technique to operate the pump is to use your upper body weight to push down on the pump, keeping your arms rigid. This method is less fatiguing than using only the strength of your arms to push the pump handle.

6.7 Once your rifle has reached the desired pressure, open the bleeder valve on the base of the pump.

- You will hear a loud rush of air (and maybe see some water vapor) escape from the small hole in the base of the pump.
- You may now safely remove the pump's probe adaptor from the rifle's receptor port.

CAUTION: Disconnecting the fill hose from the airgun without first bleeding the air may result in injury from hose whip as a result of pressure in the fill hose.

7. Fill/Charge Airgun with High Pressure Tank or PCP Airgun Charging Station

! WARNING: FILL YOUR AIR VENTURI PCP AIRGUN USING COMPRESSED AIR OR NITROGEN GAS ONLY. USE OF OTHER GASES, INCLUDING OXYGEN, CAN CAUSE A FIRE OR EXPLOSION THAT MAY RESULT IN PROPERTY DAMAGE, SERIOUS INJURY OR DEATH.

! WARNING: DO NOT FILL AIRGUN WITH OXYGEN OR ANY GAS OTHER THAN COMPRESSED AIR OR NITROGEN GAS! FILLING WITH ANYTHING OTHER THAN AIR IS DANGEROUS AND WILL VOID YOUR WARRANTY.

! WARNING: DO NOT EXCEED MAXIMUM FILL PRESSURE OF 206 bar/3,000 psi AT ROOM TEMPERATURE!

! WARNING: DISCONNECTING THE FILL HOSE FROM THE AIRGUN WITHOUT FIRST BLEEDING THE AIR MAY RESULT IN INJURY FROM HOSE WHIP DUE TO PRESSURE IN THE FILL HOSE.

NOTE: ALWAYS think about safety first. Take your time. If you are uncertain how to proceed, stop and contact Air Venturi for assistance! **Air Venturi service line: 216-220-1180**

NOTE: To ensure safe operation, avoid distractions such as children or animals when refilling your rifle. Be sure the rifle is unloaded before filling. Wear safety glasses and hearing protection when filling with high-pressure air.

CAUTION: NEVER FILL YOUR AIRGUN OVER 206 BAR/3,000 PSI. THIS IS DANGEROUS AND WILL VOID THE WARRANTY. In an over-filled condition (above 206 bar/3,000 psi), the regulator may malfunction and cause the rifle to fire at a much lower velocity.

CAUTION: DO NOT TRY TO REPAIR THE AIRGUN OR TO DISASSEMBLE IT TO CORRECT AN OVERVILL OR VALVE LOCK. Call Tech Support for assistance.

NOTE: When filling the airgun for the FIRST TIME, you must check the pressure gauge (manometer). If the gun is not pressurized, you must cock the rifle before filling it.

7.1 Locate, but DO NOT REMOVE, the quick-fill dust cap at the end of the air reservoir tube below the barrel as shown in Figure 5. DO NOT REMOVE IT!

- Pull the quick-fill dust cap off the end of the air chamber to expose the male receptor port as shown in Figure 6.
- After you've completed filling the airgun, push the quick-fill dust cap back on to close off the receptor port. Any dirt that enters could cause valve failure.

7.2 Lay the airgun next to the scuba tank or PCP charging station, making sure the airgun is pointed in a SAFE DIRECTION.

- The tank or charging station should be within easy reach of the male receptor port of the airgun.

7.3 Hand-tighten the bleeder valve on the hose.

7.4 Carefully insert the pump adaptor from the tank or charging system hose into the airgun's exposed male receptor port.

- 7.5 Open the main valve of the scuba tank or PCP charging station to allow a SLOW, CONTROLLED infusion of air.
- If you hear air leaking, carefully check all connections. If you cannot resolve the air leaks, return the hose adaptor unit to your dealer for inspection.
- 7.6 Continue by watching the pressure level on the manometer, especially when the pressure reaches 172 bar/2,500 psi.
- DO NOT exceed 206 bar/3,000 psi.
- 7.7 Once your rifle has reached the desired pressure, close the main valve on the scuba tank or PCP charging station.
- DO NOT exceed 206 bar/3,000 psi.
- 7.8 Open the bleed valve.
- You will hear a loud rush of air (and maybe see some water vapor) escape from the bleed valve.
 - You may now safely remove the pump hose's probe adapter from the rifle's receptor port.

8. Uncocking / Cocking

NOTE: ALWAYS think about safety first. Take your time. If you are uncertain how to proceed, stop and contact Air Venturi for assistance! **Air Venturi service line: 216-220-1180**

8.1 Uncocking the Airgun

- With the airgun pointed in a SAFE DIRECTION, draw the bolt rearward – slightly past its stopping point so that you feel some resistance.
- Still holding the bolt handle securely, pull the trigger.
 - You will feel the bolt handle pull in the direction away from the trigger.
- Gently ease the bolt toward the closed position.
- Pull the trigger to confirm the rifle is NOT in firing mode.

NOTE: The airgun will NOT be harmed if it is dry-fired.

8.2 Cocking the Airgun

- The airgun has two (2) cocking positions
 - Low power
 - High power
- Disengage the safety.
 - The cocking lever (bolt) will NOT pull back the hammer if the safety is on.
- Grab the cocking handle.
- Draw the bolt rearward until you hear it engage at the first click.
 - The bolt should be positioned roughly an inch from being fully engaged. This is for **LOW POWER** shooting.
- Continue to draw the bolt rearward completely until you hear the second click.
 - The bolt should now be positioned at the end of the slot. This is for **HIGH POWER** shooting.
- Engage the safety **BEFORE** loading a projectile.

9. Loading the Airgun

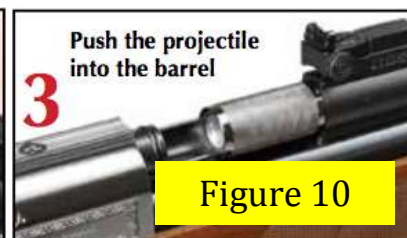
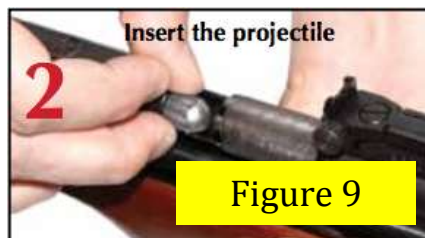
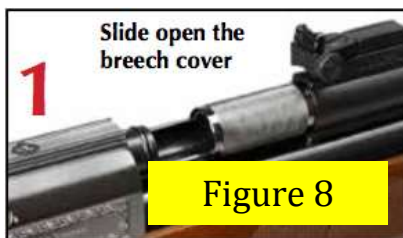
! WARNING: DO NOT INHALE DUST FROM LEAD PROJECTILES OR PUT THEM IN YOUR MOUTH. WASH HANDS AFTER HANDLING LEAD. LEAD PELLETS CONTAIN LEAD, A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS (OR OTHER REPRODUCTIVE HARM).

! WARNING: USE THE CORRECT AMMUNITION SIZE FOR YOUR AIR VENTURI WING SHOT AIR RIFLE MODEL. NEVER REUSE AMMUNITION. THE USE OF ANY OTHER KIND OF AMMUNITION MAY CAUSE INJURY TO YOU OR DAMAGE TO YOUR RIFLE.

NOTE: ALWAYS think about safety first. Take your time. If you are uncertain how to proceed, stop and contact Air Venturi for assistance! **Air Venturi service line: 216-220-1180**

CAUTION: ALWAYS point the airgun in a SAFE DIRECTION.

- 9.1 Slide open the breech cover to expose the barrel as in Figure 8.
- 9.2 Insert the bullet or shell completely into the barrel with the rounded end of the ammunition pointing toward the muzzle end of the gun as in Figures 9 and 10.
- 9.3 Close the breech cover completely.



No. 8 shot



No. 6 shot



.50 caliber bullet

10. Cleaning the Barrel

NOTE: If your groups are off, it is likely the barrel requires cleaning. BEFORE proceeding, point the airgun in a SAFE DIRECTION.

- 10.1 Put the airgun ON “SAFE” and point the airgun in a SAFE DIRECTION.
- 10.2 DO NOT clean the barrel while the airgun is charged.
 - Completely empty the airgun’s reservoir by dry-firing it in a SAFE DIRECTION.
 - It is best to clean the air rifle when the air pressure is already so low there is not much air to discharge.

10.3 With the breech cover opened, insert the tip of the cleaning rod to completely run through the end of the barrel.

- Do not use a wooden dowel as a cleaning rod.
- A broken rod in the barrel is extremely difficult to remove.
- It's best to use a coated metal rod designed for cleaning airguns.

10.4 Saturate cloth patches with cleaning fluids or lubricants designed for airgun barrels.

- Push the saturated cloth patch through the muzzle with the cleaning rod until the patch exits at the breech. There's no need to over-clean the barrel.
- Swab the bore with cloth patches until the last one comes out clean.
- Use only cleaning agents suited for airguns. Never use steel brushes. You may use brass or bronze brushes.

11. Clearing a Jammed Bullet / Shell

IMPORTANT: Firing the airgun with too little pressure may cause the ammunition to get stuck in the barrel.

11.1 Put the airgun ON "SAFE" and point the airgun in a SAFE DIRECTION.

11.2 Open the breech cover.

11.3 Use a coated metal rod designed for cleaning rifles to clear the barrel. Push it through from the muzzle to the breech. The jammed projectile should come out.



12. Storage of the Airgun

ALWAYS store the airgun with the ammunition removed and the safety on. Carefully check that there is no ammunition in the barrel. KEEP THE AIRGUN OUT OF THE REACH OF CHILDREN and users not familiar with its use. Store the airgun separately from the ammunition.

It is recommended that you store your Air Venturi PCP airgun with at least 1,000 psi of high-pressure air.

13. Technical Specifications

AV-SG001	Wing Shot
Mechanism:	Bolt Action
Caliber/Ammunition:	.50
Weight:	7.25 pounds
Overall Length:	43 inches
Barrel Length:	22.5 inches
Barrel Style:	Smooth Bore
Sights:	Fixed Bead
Power Source:	Precharged Pneumatic, 3,000 psi
Safety:	Manual Cross-Bolt
Velocity:	Shotgun 1130 fps / Bullet 760 fps
Danger Distance:	1000 yards / 915 meters
Capacity:	Single Shot
Shots per fill:	5
Trigger:	Two-Stage, non-adjustable
Buttpad:	Rubber

14. Warranty

One-Year Limited Warranty:

Your Air Venturi airgun is manufactured to the highest possible standards, using the finest 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 the defective items under warranty.

What is covered?

Replacement parts and labor. Transportation charges to consumer for repaired product.

What is NOT covered?

- Any damage or faults caused by owner misuse, action or inaction.
- Transportation charges to Air Venturi for defective products.
- Damages caused by abuse or failure to perform normal maintenance.
- Any other expense.
- Parts subject to normal wear and tear.
- Consequential damages, incidental damages or incidental expenses including damage to property.

This warranty is in addition to your statutory rights. Retain your sales receipt as proof of purchase.

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.

Warranty claims:

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.

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

The warranty shall be invalid if the PCP Airgun:

- Has been incorrectly disassembled, reassembled or maintained.
- Has been fitted with non-Air Venturi parts.
- Has been abused, misused or improperly stored.
- Original purchase receipt cannot be presented.

15. Repair Service

In the unlikely event your tank malfunctions, DO NOT ATTEMPT TO FIX THE PROBLEM YOURSELF. Please call Air Venturi so we can address any issues or have you return the tank for repair.

Air Venturi service line: 216-220-1180

16. Company Contact Information



Air Venturi
5135 Naiman Parkway
Solon, OH 44139
216-220-1180

**For assistance, technical support or warranty claims,
contact the Air Venturi service line: 216-220-1180**