DESCRIPTION

Front Sight | Barrel | Rear Sight | Cheek Piece

Intake Valve | Trigger | Bolt Handle | Bolt | Muzzle

Safety | Pressure Gauge | Air Cylinder

WARNING
EYE PROTECTION IS REQUIRED! WEAR APPROPRIATE SAFETY GLASSES (SHOOTING GLASSES)!

ERROR WARNING
FAILURE TO FOLLOW THE INSTRUCTIONS AND RECOMMENDATIONS IN THIS MANUAL MAY RESULT IN SEVERE BODILY INJURY (INCLUDING FACE INJURY, EYE INJURY, EAR INJURY, BLINDNESS, DEAFNESS) AND EVEN DEATH.
WARNING

NOT A TOY. ADULT SUPERVISION REQUIRED. MISUSE, ABUSE OR NEGLIGENT USE MAY CAUSE SERIOUS INJURY OR DEATH. MAY BE DANGEROUS UP TO 500 YARDS (460 METERS).

This air rifle is not a toy. Treat it with the same respect you would give a firearm subject to licensing. Always handle it as if it is loaded and ready to shoot. Always carefully follow the safety instructions found in this Manual and keep it in a safe place for future reference.

- The air rifle described in this Manual is a high-powered gun recommended for use by those 18 years of age or older. Be sure to closely read all safety instructions and other information in this Manual before using the air rifle. The purchaser and user of this air rifle must conform to all national, regional and local laws and regulations governing the acquisition of ownership, possession and use of airguns.

- Do not brandish or display the air rifle in public. This may confuse people and may be a crime. Police and others may think this air rifle is a firearm subject to licensing.

- Do not change the coloration and markings to make the air rifle look more like a full-fledged firearm. That is dangerous and may be a crime.

- Airguns differ in design, function and handling, so you are never ready to shoot a gun until you are thoroughly familiar with it. Therefore, please read this Manual carefully before using the air rifle described in it.

- You and any others with or near you MUST always wear appropriate safety glasses (shooting glasses) to protect your eyes. If any of you wear vision correcting glasses, contact lenses, or sunglasses, these must be certified for impact resistance by the manufacturer; otherwise, always wear appropriate safety glasses (shooting glasses) over your vision correcting glasses, contact lenses, or sunglasses, as the case may be.

- Always aim in a SAFE DIRECTION. Always keep the muzzle of the air rifle pointed in a SAFE DIRECTION.

- Always keep your finger off the trigger and out of the trigger guard until you are ready to shoot.

- Never point the air rifle at anything you do not intend to shoot.

- Never point the air rifle at people or animals.

- Always treat the air rifle as though it is loaded and with the same respect you would give a firearm subject to licensing.

- Never look down the barrel of the air rifle.

- Always keep the air rifle uncocked and unloaded with Safety “ON” until you are ready to shoot.
- Always check to see if the air rifle is uncocked and unloaded with safety “ON” when getting it from another person or from storage.
- Never leave a loaded air rifle unattended.
- Use only the proper size and type of projectile as it is marked on the air rifle.
- Never reuse ammunition.
- Do not shoot at hard surfaces or at the surface of water. The projectile may bounce off or ricochet and hit a person or an animal, or hit an object that you had not intended to hit.
- Do not shoot at fragile objects such as windows.
- Place the backstop in a location that will be safe should the backstop fail.
- Check the backstop for wear before and after each use. All backstops are subject to wear and will eventually fail. Replace the backstop if the surface is worn or damaged or if a ricochet occurs.
- Do not attempt to disassemble or tamper with the air rifle. Unauthorized repairs or functional modifications may render it unsafe and will void your warranty. Repairs must only be made by qualified personnel.
- Before you store or transport the air rifle, make sure it is unloaded and uncocked, with safety “ON”.
- Always store the air rifle in a secure location out of the reach of unauthorized persons and separate from ammunition.
- Only persons who are thoroughly familiar with the air rifle’s function and proper use and who are duly authorized by law may handle the air rifle.
- Always wear appropriate safety glasses (shooting glasses) when shooting or performing maintenance on the air rifle.
- Only shoot where permitted by law.
- Never use alcoholic beverages, drugs or other potentially mind and perception-altering substances before or during shooting sessions.
- Remember to perform inspection and maintenance of the air rifle at regular intervals.
- If the air rifle has been dropped, make sure that its function has not been affected.
- Lead pellets are toxic to humans and animals. Therefore, do not eat, drink or touch your own or someone else’s mouth, eyes or nose when handling lead pellets. Do not inhale the dust of lead pellets and do not put them in your mouth. Be sure to wash your hands after handling lead pellets.
## TECHNICAL DATA

<table>
<thead>
<tr>
<th></th>
<th>cal. 4.5 mm (.177)</th>
<th>cal. 5.5 mm (.22)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>System / Power source</strong></td>
<td>PCP pre-charged-pneumatic</td>
<td>PCP pre-charged-pneumatic</td>
</tr>
<tr>
<td><strong>Caliber</strong></td>
<td>cal. 4.5 mm / .177 pellets</td>
<td>cal. 5.5 mm / .22 pellets</td>
</tr>
<tr>
<td><strong>Magazine</strong></td>
<td>9 pellets</td>
<td>7 pellets</td>
</tr>
<tr>
<td><strong>Air Capacity</strong></td>
<td>100 ml • 100 cc</td>
<td>100 ml • 100 cc</td>
</tr>
<tr>
<td><strong>Max Shots per Fill</strong></td>
<td>40</td>
<td>30</td>
</tr>
<tr>
<td><strong>Max Fill Pressure</strong></td>
<td>200 bar • 20 MPa • 2,900 PSI</td>
<td>200 bar • 20 MPa • 2,900 PSI</td>
</tr>
<tr>
<td><strong>Energy</strong></td>
<td>7.5 joules</td>
<td>7.5 joules</td>
</tr>
<tr>
<td><strong>Velocity</strong></td>
<td>320 m/s • 1,050 fps</td>
<td>290 m/s • 950 fps</td>
</tr>
<tr>
<td><strong>Sights</strong></td>
<td>adjustable</td>
<td>adjustable</td>
</tr>
<tr>
<td><strong>Safety</strong></td>
<td>manuel</td>
<td>manuel</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>2,300 g • 5.1 lbs</td>
<td>2,300 g • 5.1 lbs</td>
</tr>
<tr>
<td><strong>Total Length</strong></td>
<td>980 mm • 38.5”</td>
<td>980 mm • 38.5”</td>
</tr>
<tr>
<td><strong>Barrel Length</strong></td>
<td>490 mm • 19”</td>
<td>490 mm • 19”</td>
</tr>
<tr>
<td><strong>Danger Distance</strong></td>
<td>460 m (500 yds)</td>
<td>460 m (500 yds)</td>
</tr>
</tbody>
</table>

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⚠️ **WARNING**

NEVER EVER CARRY THE AIR RIFLE WHILE COCKED AND/ OR WHILE LOADED. IT IS BEST TO COCK THE AIR RIFLE ONLY IMMEDIATELY BEFORE SHOOTING.

⚠️ **WARNING**

USE ONLY COMPRESSED BREATHING AIR IN THE AIR RIFLE. USE NO OTHER GASES, INCLUDING OXYGEN, WHICH CAN CAUSE A FIRE OR EXPLOSION THAT MAY RESULT IN SERIOUS INJURY OR DEATH.
1. Read all instructions about your charging equipment and connect the quick-fill adapter to it. Please note that your charging equipment must include a pressure gauge (manometer)!

2. Ensure both fill adapter and filler are clean from dirt. Insert the fill adapter into the intake valve and start filling. If you use a scuba tank, fill slowly to prevent heat building.

3. Watch the gauge on the air rifle and charging equipment. We recommend to fill the tank with a pressure of 200 bar. Do not exceed a filling pressure of 200 bar!

4. Scuba tank: BLEED the fill hose COMPLETELY before disconnecting the quick-fill adapter from the air rifle to avoid hose whip and possible injury. Disconnect quick-fill adapter from the air rifle 1 and the charging equipment 2.

**CAUTION**
MAKE SURE THE AIR RIFLE IS UNLOADED AND UNCOCKED. POINT THE MUZZLE IN A SAFE DIRECTION. REMOVE THE MAGAZINE AND THE LOADING BASE.

**WARNING**
DANGER OF EXPLOSION!
**HANDLING & OPERATION**

**EMPTYING THE COMPRESSED AIR CYLINDER** (DEGASSING)

*Note:* This air rifle, like most PCP air rifles, is best stored with some pressure in the air cylinder. This keeps the seals in the air rifle forced against the sealing surface and saves some air for next-time fill or use.

In case you need to depressurize the air rifle, point the unloaded gun in a SAFE DIRECTION and repeat cocking and dry-firing until the air cylinder is empty.

**SAFETY**

![Safety Button]

**LOADING (SINGLE-SHOT)**

1. Pull the bolt handle backward to its open position **1** until a click sound is heard. Now insert the loading base **2**.

2. Insert a pellet (as shown) flush into the barrel and close and lock the bolt by pushing the bolt handle forward and down. **Do not** fill in more than 1 pellet.

**WARNING**

NEVER POINT THE AIR RIFLE AT ANYTHING YOU DO NOT INTEND TO SHOOT.
NEVER POINT AN AIR RIFLE AT PEOPLE OR ANIMALS.
LOADING THE MAGAZINE (MULTI-SHOT)

1. Hold the magazine (as shown) and rotate the transparent plate until the first pellet chamber becomes visible in the loading aperture.

2. Insert the pellet as shown into the magazine 1 and slightly turn the plate to the next pellet chamber. Repeat until all 9 pellet chambers are filled, then turn the plate back to its original position 2.

3. Pull the bolt handle backward to its open position 3 until a click sound is heard. Now insert the loaded magazine as shown 4.

4. Close and lock the bolt by pushing the bolt handle forward and down. **Do not** load more than 1 pellet into the barrel. Immediate shooting after cocking is recommended to prevent loading of 2 pellets into the barrel.

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**CAUTION**

ALWAYS STORE THE MAGAZINE UNLOADED (WITHOUT PELLETS) TO PREVENT WEAKENING OF THE MAGAZINE SPRING.
SHOOTING

Put the safety “OFF”. To begin shooting, aim at a safe target and pull on the trigger 1. 
Note: Push the bolt handle a little harder, if the resistance or jam is felt when closing the bolt back with magazine.

AIMING

Load and cock the air rifle again. Pull the bolt handle backward 2 until a click sound is heard and push it forward and down 3. Make sure that only one pellet is loaded into the barrel.

SIGHT ADJUSTMENT

**Elevation adjustment**: If the point of impact is too high: turn screw 1 clockwise. If the point of impact is too low: adjust screw 1 counterclockwise.

**Windage adjustment**: Loosen screw 2. If the point of impact is too far left: adjust rear sight to A. If the point of impact is too far right: adjust to the B. Tighten screw 2.
BARREL CLEANING

**WARNING**

IF A PELLET DOES NOT FIRE AFTER YOU HAVE COMPLETED THE OPERATION STEPS DESCRIBED IN THIS MANUAL, THE AIR RIFLE MAY BE JAMMED. AN UNFIRED PROJECTILE IN THE BARREL CAN PRESENT A DANGEROUS SITUATION. TO ELIMINATE THE JAMMING, KEEP THE MUZZLE OF THE AIR RIFLE POINTED IN A SAFE DIRECTION AND REPEAT THE OPERATION STEPS, HOWEVER WITHOUT LOADING ANOTHER PELLET. IF A PROJECTILE STILL DOES NOT FIRE, DO THE FOLLOWING:

1. Engage the safety and remove the magazine or the loading base.
2. Clean the barrel with some gun oil.
3. Insert the rod as shown.

**CAUTION**

- DO NOT FORCE THE ROD INTO THE BARREL AS THIS COULD CAUSE DAMAGE.
- CLEAN THE METAL PARTS ON THE OUTSIDE OF THE RIFLE USING A CLOTH WHICH HAS BEEN SLIGHTLY DAMPENED WITH SOME GUN OIL.
- NEVER ALLOW GUN OIL TO DRIP DIRECTLY INTO THE BARREL.

**WARNING**

UNLOAD THE AIR RIFLE BEFORE CLEANING IT.

1. Engage the safety. Attach a piece of cotton fabric to the end of a cleaning rod.
2. Clean the barrel with some gun oil. Insert the rod as shown.
# TROUBLESHOOTING

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leakage at the fill adapter when charging</td>
<td>Replace the filler O-ring</td>
</tr>
<tr>
<td>Air coming out from barrel when charging</td>
<td>Cock the gun first then charge OR change exhaust valve</td>
</tr>
<tr>
<td>Leakage at intake valve hole after charging</td>
<td>Replace intake valve O-ring</td>
</tr>
<tr>
<td>Leakage at exhaust valve and air cylinder valve</td>
<td>Replace both O-rings</td>
</tr>
<tr>
<td>Leakage at pressure gauge when charging</td>
<td>Replace pressure gauge O-ring</td>
</tr>
<tr>
<td>Bolt cannot be turned to the end.</td>
<td>Bolt screws have become loose and need to be re-tightened.</td>
</tr>
<tr>
<td>Shot grouping has lost accuracy and precision</td>
<td>Barrel fixing screws have become loose and need to be re-tightened.</td>
</tr>
<tr>
<td>Besser leakage at breech while shooting</td>
<td>Change breech O-ring.</td>
</tr>
<tr>
<td>Feeling heavy to pull the bolt handle</td>
<td>Dismantle breech, clean around bolt probe and add lubricating oil on bolt probe.</td>
</tr>
</tbody>
</table>

⚠️ **CAUTION**

WARRANTY IS VOID IF THE RIFLE IS DISMANTLED WITHOUT AUTHORIZATION. ALL REPAIRS MUST BE MADE BY AUTHORIZED PERSONNEL.

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The information provided in this Manual is subject to change without notice. Please check our website [www.diana-airguns.de](http://www.diana-airguns.de) for the latest downloadable version of the Manual, and learn further interesting facts about DIANA and your model.