



skyhawk



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Version 05/2019

INTRODUCTION



DESCRIPTION



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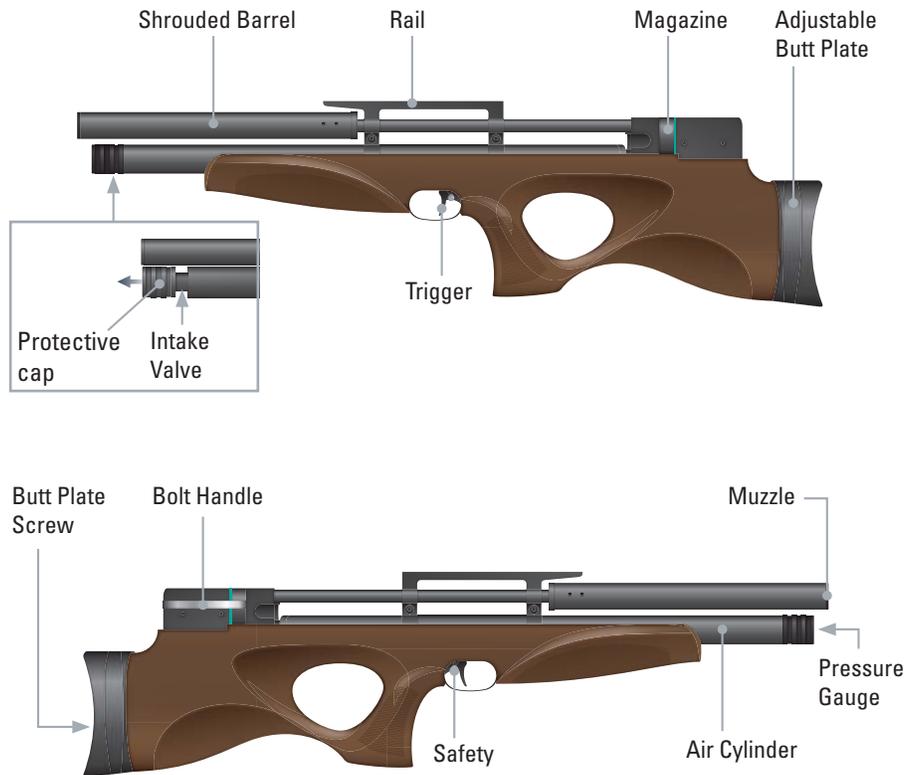
CARE & MAINTENANCE



TROUBLESHOOTING



DESCRIPTION



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WARNING

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



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.



SAFETY INSTRUCTIONS



WARNING

NOT A TOY. ADULT SUPERVISION REQUIRED. MISUSE, ABUSE OR NEGLIGENT USE MAY CAUSE SERIOUS INJURY OR DEATH. MAY BE DANGEROUS UP TO 620 YARDS (675 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.

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TECHNICAL DATA

TECHNICAL DATA

	cal. 4.5 mm (.177)	cal. 5.5 mm (.22)	cal. 6.3 mm (.25)
System / Power Source	PCP (pre-charged pneumatic)		
Caliber	cal. 4.5 mm / .177 pellets	cal. 5.5 mm / .22 pellets	cal. 6.3 mm / .25 pellets
Magazine	11 pellets	9 pellets	8 pellets
Air Capacity	265 ml • 265 cc		
Max Fill Pressure	250 bar • 25 MPa • 3,620 PSI		
Energy	26 joules	44 joules	52 joules
Velocity	300 m/s • 985 fps	290 m/s • 950 fps	260 m/s • 850 fps
Safety	manual		
Weight	2,700 g • 6 lbs / 2,900 g • 6.4 lbs (laminated)		
Total Length	740 mm • 29"		
Barrel Length	570 mm • 22"		
Danger Distance	675 m (620 yds)		

¹ Measured with different lead pellets.



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 OR CO₂, WHICH CAN CAUSE AN EXPLOSION THAT MAY RESULT IN SERIOUS INJURY OR DEATH.

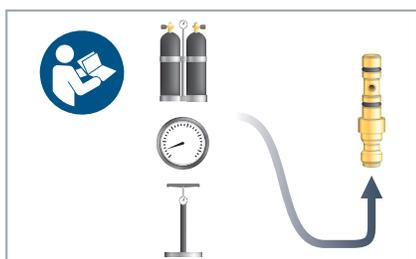


HANDLING & OPERATION

FILLING THE COMPRESSED AIR CYLINDER

CAUTION

- MAKE SURE THE AIR RIFLE IS UNLOADED. POINT THE MUZZLE IN A SAFE DIRECTION. REMOVE THE MAGAZINE AND THE LOADING BASE.
- COCK THE AIR RIFLE BEFORE YOU START FILLING PROCESS: PULL THE BOLT HANDLE BACKWARD TO ITS OPEN POSITION UNTIL A CLICK SOUND IS HEARD. CLOSE AND LOCK THE BOLT BY PUSHING THE BOLT HANDLE FORWARD AND DOWN.

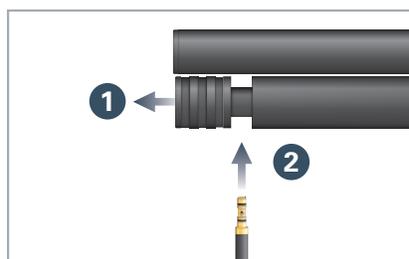


1. Read all instructions about your charging equipment and connect the quick-fill adapter to it. **Please note that your charging equipment must include a pressure gauge (manometer)!**

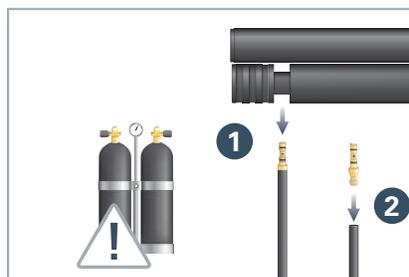


3. Watch the gauge on the air rifle and charging equipment. We recommend to fill the tank with a pressure of 250 bar. **Do not exceed a filling pressure of 250 bar!**

 **WARNING**
DANGER OF EXPLOSION!



2. Ensure that both, fill adapter and filler, are clean from dirt. Pull back the protective cap and insert the fill adapter into the intake valve and start filling. If you use a scuba tank, fill **slowly** to prevent heat building.



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 the quick-fill adapter from the air rifle 1 and the charging equipment 2. To decock, aim in a safe direction and pull the trigger.

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HANDLING & OPERATION

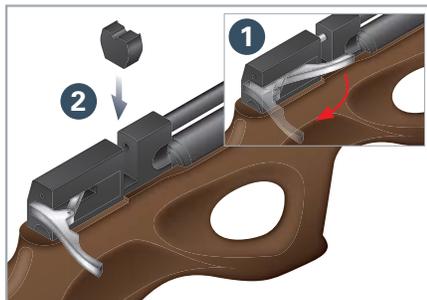
WARNING

NEVER POINT THE AIR RIFLE AT ANYTHING YOU DO NOT INTEND TO SHOOT.
NEVER POINT AN AIR RIFLE AT PEOPLE OR ANIMALS.

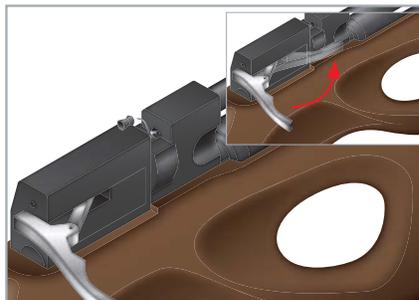
SAFETY



LOADING (SINGLE-SHOT)

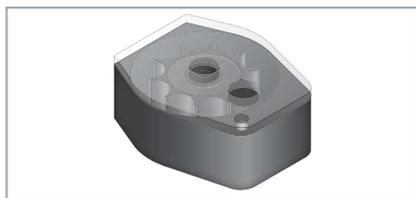


1. Pull the bolt handle backward to its open position **1** until a click sound is heard. Now insert the loading base **2**.

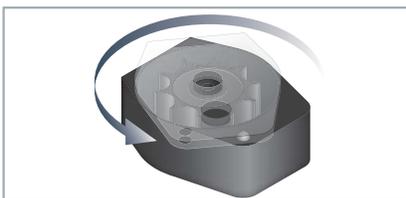


2. Insert a pellet (as shown) flush into the barrel and close and lock the bolt by pushing the bolt handle forward and down. **Do not** fill in more than 1 pellet.

LOADING THE MAGAZINE (MULTI-SHOT)



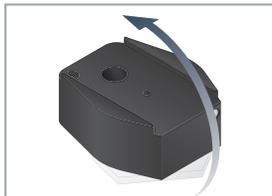
1. Place the Magazine on a flat surface.



2. Rotate the transparent plate counterclockwise until it stops.



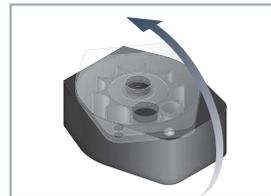
HANDLING & OPERATION



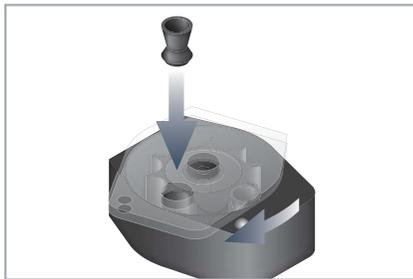
3. Turn the Magazine upside down.



4. Insert one first pellet.



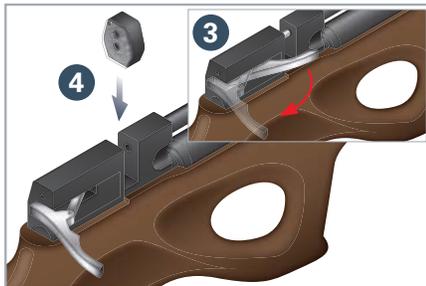
5. Turn the Magazine upside down.



6. Turn the transparent plate clockwise to the next chamber and insert the next pellet.



7. Repeat until all chambers are filled.



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



9. 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.

CAUTION

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

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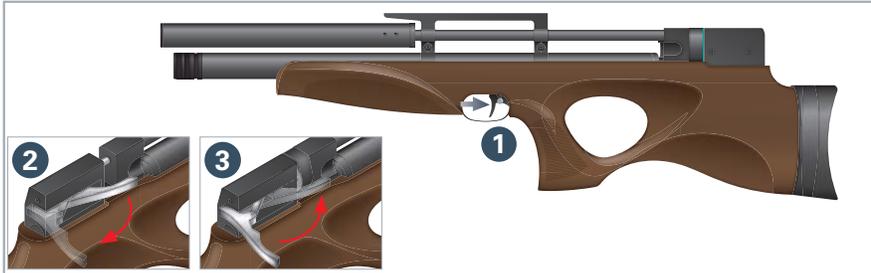
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HANDLING & OPERATION

SHOOTING



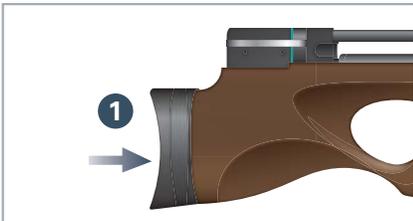
Put the safety "OFF".

To begin shooting, aim at a safe target and pull on the trigger **1**.

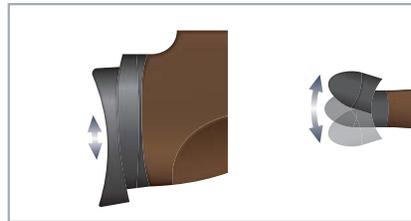
Note: Push the bolt handle a little harder if resistance is felt when closing the bolt back with the magazine.

For further shooting, 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.

STOCK ADJUSTMENT



1. Loosen the butt plate screw **1**.



2. Adjust the butt plate as desired and tighten the butt plate screw.

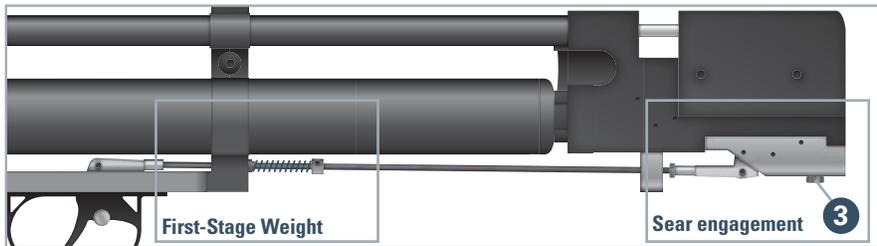
TRIGGER ADJUSTMENT



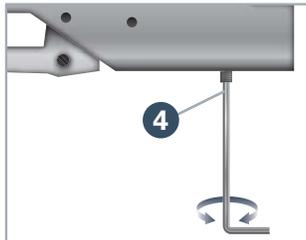
1. Loosen the stock screws **1** and remove the system from the stock **2**.



HANDLING & OPERATION

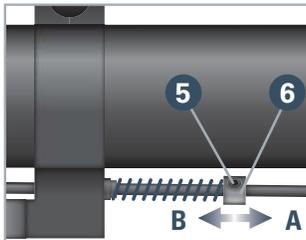


Note: Use a hexagon (Allen) key (SW 1.5) to adjust the trigger.



2. Adjustment of sear engagement:

When the gun is cocked, the sear engages with the sear lever. By turning the screw, you can adjust sear engagement (and thus trigger creep). Remove locking nut **3**. In order to reduce sear engagement, turn engagement screw **4** clockwise. In order to increase sear engagement, turn engagement screw **4** counterclockwise. Reinstall locking nut.



3. First-Stage Weight:

Loosen the safety screw **5** and move the spring stopper **6** as appropriate.

Increase First-Stage Weight: Move the spring stopper in the direction of **B** and tighten the safety screw.

Decrease First-Stage Weight: Move the spring stopper in the direction of **A** and tighten the safety screw.



4. Reinstall the system into the stock and tighten the stock with the stock screws.

CAUTION

PLEASE BE AWARE THAT MAJOR TRIGGER ADJUSTMENTS MAY RESTRICT THE FUNCTIONALITY OF THE AIR RIFLE. IN THIS CASE, THE LEVEL OF TRIGGER ADJUSTMENT MUST BE CORRECTED.

WARNING

THIS ADJUSTMENT AFFECTS SEAR ENGAGEMENT. DO NOT OVER-ADJUST, AS THIS MAY CAUSE THE AIRGUN TO FIRE PREMATURELY OR NOT OPERATE CORRECTLY AND MAKE THE AIRGUN UNSAFE. ALWAYS CHECK YOUR SETTINGS TO ENSURE CORRECT AND SAFE OPERATION OF THE AIRGUN. ALWAYS ENSURE THAT OPERATION OF THE SAFETY IS UNAFFECTED BY ANY ALTERATIONS YOU MAKE TO THE TRIGGER MECHANISM.

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CARE & MAINTENANCE

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.

PELLET JAM & BARREL CLEANING

WARNING

UNLOAD THE AIR RIFLE BEFORE CLEANING IT.

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:

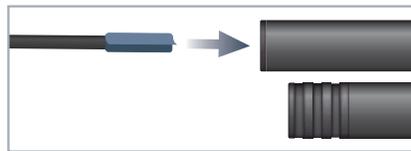
1. ENGAGE THE SAFETY AND REMOVE THE MAGAZINE OR THE LOADING BASE.
2. CLEAR THE BARREL BY RUNNING A CLEANING ROD THROUGH IT FROM THE MUZZLE END.
3. REPEAT THE OPERATION STEPS.

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.



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

PROBLEM	SOLUTION
Leakage at the fill adapter when charging	Replace the filler O-ring.
Air coming out from barrel when charging	Cock the gun first, then charge OR change exhaust valve.
Leakage at intake valve after charging	Replace intake valve O-ring.
Leakage at exhaust valve and air cylinder valve	Replace both O-rings.
Leakage at pressure gauge when charging	Replace pressure gauge O-ring.
Bolt handle cannot be turned to the end	Bolt screws have become loose and need to be re-tightened.
Shot grouping has lost accuracy and precision	Barrel fixing screws have become loose and need to be re-tightened.
Leakage at breech while shooting	Change breech O-ring.
Feeling heavy to pull the bolt handle	Dismantle breech, clean around bolt probe and add lubricating oil on bolt probe.
The gun fires prematurely.	Increase sear engagement.
The trigger cannot be pulled.	Reduce trigger weight or sear engagement.



CAUTION

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

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

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