



**Magnum
Research,
Inc.**[®]



CO₂-Pistol
Desert Eagle
cal. 4.5 mm (.177)
Pellet



You must be 18 years old to purchase this CO₂-pistol. Warning: For your safety and that of others, carefully read and follow these instructions before using this pistol. If there is anything you do not understand, get help from someone qualified in the safe handling of guns. The purchaser and owner have the responsibility to follow the rules of safe use and ownership of this CO₂-pistol.



This symbol indicates the presence of safety directions in the operating instructions. When you see this symbol, pay attention and read the



corresponding section carefully. For your own safety and that of others, read all the operating instructions provided. Do not load the pellets until you are ready to shoot. If you have loaded the pistol and decide not to shoot, unload the pistol as described below. To guarantee maximum safety, keep the pistol unloaded with the safety on. It is possible that unexpected accidents may happen causing injury or even death. Pay special attention when you are shooting.

The chapter "Safe aiming and shooting" in this instruction manual is on the rules of safe shooting. **READ THIS CHAPTER.**

Follow these rules and be sure that everyone who handles this gun is familiar with the rules. Also read the chapter "Safe handling of guns" to avoid accidents.

Your air pistol should be treated with the same respect as a firearm. Always be aware that the most important safety aspect of a gun is the person who is shooting it. All safeties are mechanical and the shooter is responsible for their proper use. **DO NOT RELY ON MECHANICAL SAFETIES ALONE.** Think in advance and avoid situations which may lead to an accident.

Every gun differs in function. You should never shoot a gun you are not familiar with. Read the following instruction manual and practice safely handling your gun **PRIOR TO LOADING IT.**

| Content | | Page |
|----------------|--|-------------|
| 1 | Components of your new pistol | 23 |
| 2 | Decocking the hammer | 24 |
| 3 | Handling the safety | 24 |
| 4 | Insertion and removal of the CO ₂ capsule | 25 |
| 5 | Loading and unloading the air gun | 26 - 27 |
| 6 | Aiming and shooting safely | 27 - 29 |
| 7 | About CO ₂ | 30 |
| 8 | Adjusting the sight / Weaver rail | 31 |
| 9 | Maintenance | 32 |
| 10 | Care | 32 |
| 11 | Problems | 32 |
| 12 | Modifications to the pistol | 33 |
| 13 | Technical service for Umarex weapons | 33 |
| 14 | Warranty on Umarex weapons | 33 |
| 15 | Safe weapons handling | 34 |
| 16 | Specifications | 35 |
| 17 | Special accessories | 36 - 37 |



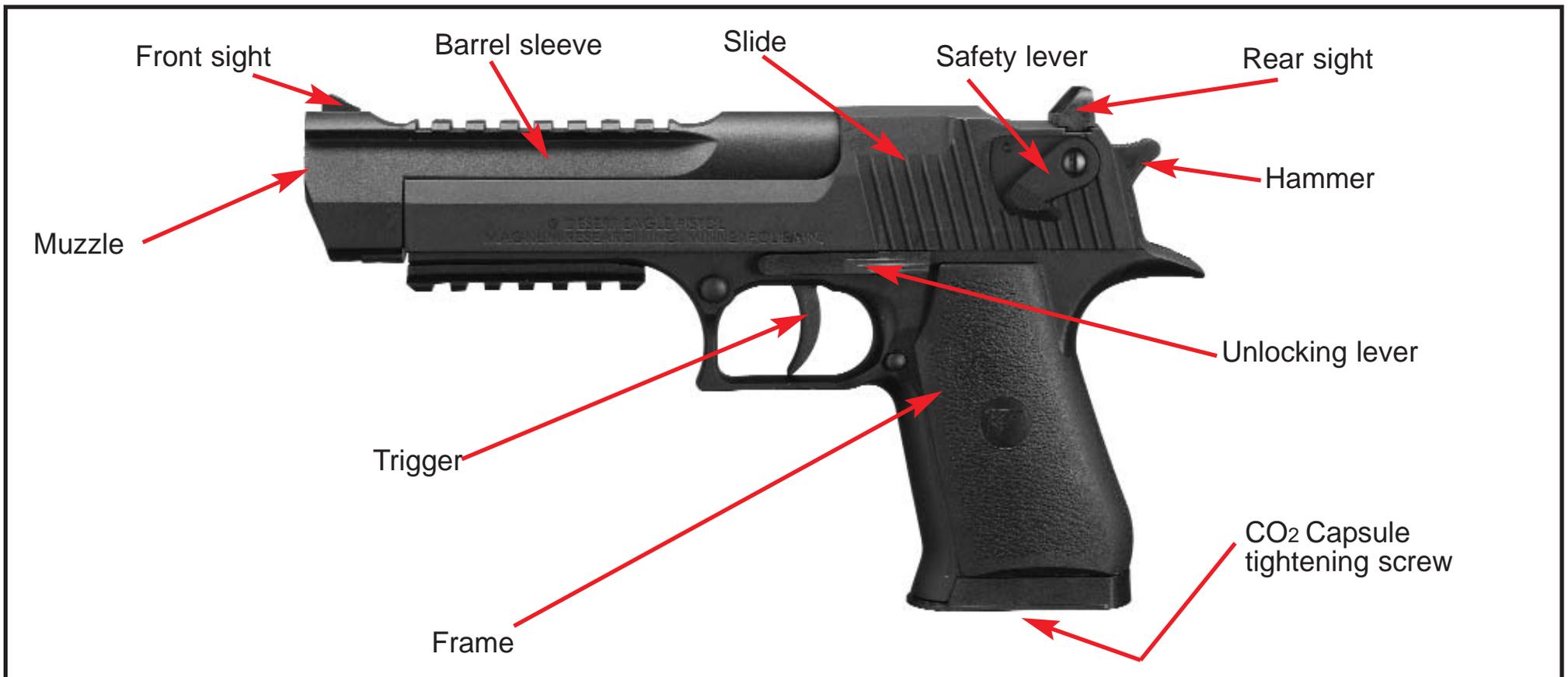
Never leave the pistol loaded.

Always store the weapon unloaded. Activate the safety, carefully confirm that there is no ammunition in the barrel, remove the CO₂ capsule, and remove the pellets from the drum.

Keep the weapon **out of the reach of children** and those who are unfamiliar with its use. Store the weapon separately from the pellets and the CO₂ capsules. This will prevent people who are unfamiliar with its use or who are unauthorized from using it.

1. Get to know the components of your new air pistol

Familiarity with the components of your pistol will help you to understand this instruction manual. Read this manual in order to better enjoy the use of your new weapon.



2. Decocking the hammer

To decock the hammer, hold it with your thumb, pull on the trigger, and let the hammer slide forward slowly.



CAUTION:

To prevent unwanted shots from being fired, release the hammer with your thumb until it stops.



Illustr. 1

3. Handling the safety

1. Safety lever

To activate the pistol safety, turn the safety lever to the lower position as shown in illustration 2.

2. Drop safety (automatic internal safety)

If the pistol falls, the drop safety will activate immediately to prevent the pistol from firing accidentally.

Manipulate the weapon only when it is decocked and the safety is activated. Always point the barrel of the weapon in a safe direction.



CAUTION:

We recommend you to keep the weapon with the safety on, except when you are ready to shoot.



Illustr. 2



Illustr. 3

4. Insertion and removal of the CO₂ capsule



WARNING: Before inserting a CO₂ cartridge, ensure that the safety is ON and the muzzle is pointed in a safe direction! Keep your face and hands at a safe distance and use caution when removing the CO₂ cartridge, as escaping CO₂ gas can cause frostbite.

Note: Use only .42 oz (12 g) CO₂ capsules. Do not use capsules containing other gases.

Activate the safety. Decock the hammer (cap. 2). Hold the pistol by the grip with one hand. Fully loosen the capsule tightening screw (illustration 4). If there is a capsule still in the pistol, the remaining CO₂ gas could escape. Then remove the empty capsule. Place the capsule by first inserting the thin end in the magazine (illustration 5) and then tighten the capsule tightening screw in a clockwise direction (illustration 6). The CO₂ capsule is now in place and hermetically sealed. In order to confirm if the capsule has been inserted correctly, ensure that the pistol is unloaded and then fire in a safe direction. If the pistol doesn't fire, remove and insert the capsule again as described above.



WARNING!

CO₂ capsules can explode if they reach 50°C or more. Do not try to destroy them or throw them into a fire. Do not expose them to high temperatures or store them at temperatures of more than 50°C. Never reuse the CO₂ capsule for another purpose. Never leave CO₂ capsules exposed to direct sunlight.

Illustr. 4



Illustr. 5



Illustr. 6



WARNING: Do not use force to insert the CO₂ cartridge. If you are not going to use the weapon for an extended period of time, we recommend removing the CO₂ cylinder in order to prevent strain on the valve.

5. Loading and unloading the pistol



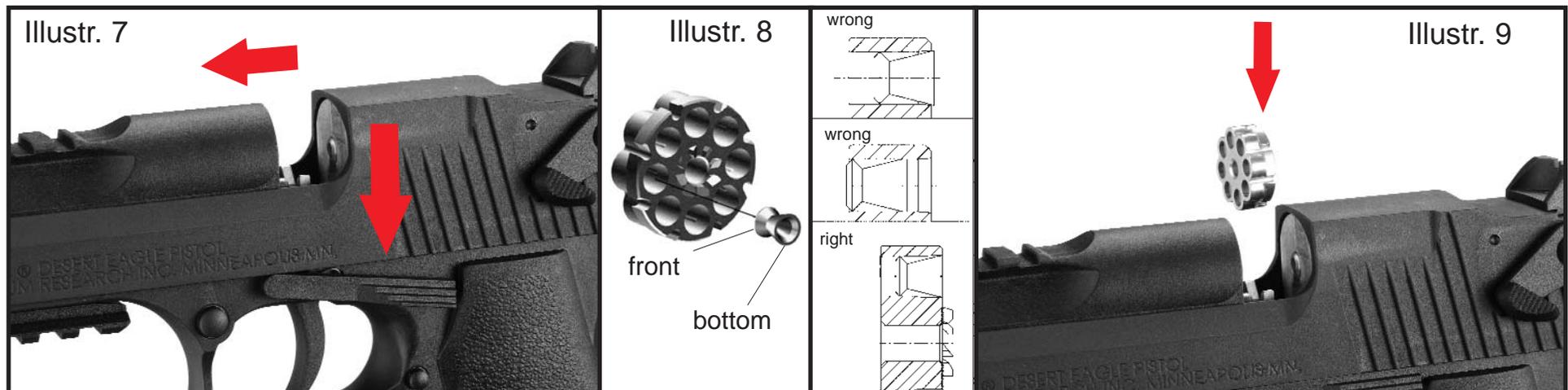
WARNING: Use only .177 caliber (4.5 mm) pellets with a maximum length of 6.5 mm. Do not use steel BBs, darts, or other similar inappropriate projectiles.

A. Loading the pistol

- Activate the safety and decock the pistol (cap. 2)
- Open the barrel sleeve. To do this, press the release lever down lightly and let it slide to the open position (illustration 7). During this process, keep the pistol in a horizontal position to prevent the drum from falling.
- Remove the drum and load the Diabolo 4.5mm (.177) caliber pellets, top down, in each hole (illustration 8).
- To prevent function errors, ensure that the base of each pellet ends in the drum or it is slightly buried in the hole.
- Place the drum in the pistol (illustration 9) and close the barrel sleeve. To do this, hold it on the top and push it until it fits into place (illustration 10). During this process, the release lever should be in a horizontal position.

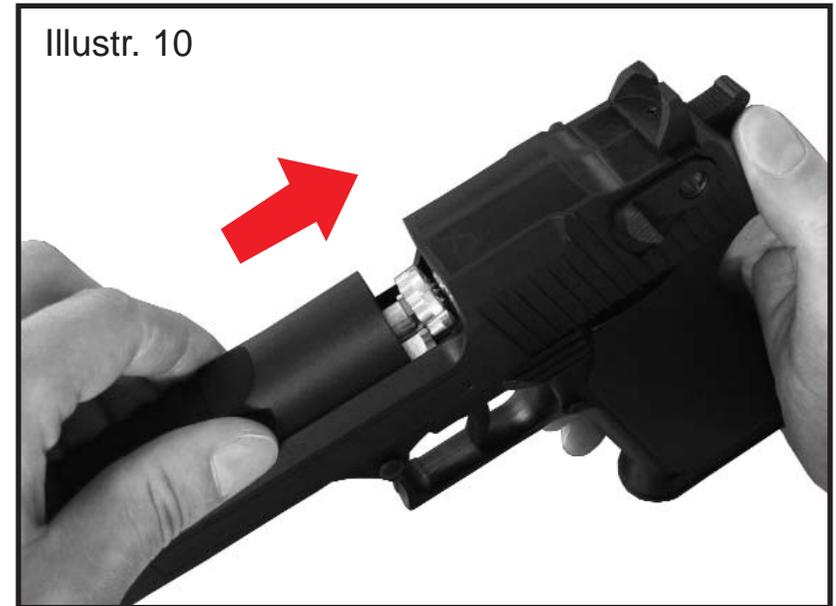


WARNING: Never put your hand in front of the muzzle! Never put your finger on the trigger, unless you are ready to fire! Warning! Make sure that muzzle is pointed in a safe direction! Never aim at people or pets.



B. Unloading the pistol

- Activate the safety as described earlier.
- Decock the hammer (cap. 2).
- Move the release lever down to open the barrel sleeve (illustration 7).
- Remove the drum and extract the pellets from it with the help of a cleaning brush or another simple tool, as a toothpick.



WARNING: Never use a sharp metal object to remove the pellets!
Damage to cylinder or barrel may impair the function.

- Make sure that there is no pellet in the barrel.
- If there is a pellet in the barrel, push it out with a cleaning rod.
- Never shoot with a used pellet. It could damage the cylinder and barrel.

6. Safe aiming and shooting



WARNING: Always point the muzzle of the gun in a safe direction. Never aim at people or pets. Always handle your pistol as if it were loaded and ready to fire.



WARNING: Do not assume that the pistol is unloaded if it fails to fire properly!

WARNING: Insufficient CO₂ pressure could cause a pellet to lodge in the barrel.

See chapter 7, "Use and handling of CO₂ cartridges" for further instructions. If you are unable to shoot a pellet after following the steps above, you may have a feed jam.

If you are unable to shoot a pellet after following the steps above, you may have a feed jam.



A feed jam is dangerous.

- Put the safety on.
- Decock the hammer (cap. 2).
- Open the barrel sleeve and remove the pellet cylinder.
- Check that each pellet is properly inserted in the cylinder.
- Check the barrel with the cleaning rod to insure that no pellet is lodged in the barrel.
- Close the breech by gripping the front part of the barrel sleeve and push it back until it locks (illustr. 10, page 7).
- Aim in a safe direction, turn the safety OFF and shoot the pistol to test the CO₂ pressure.
- If no CO₂ pressure is evident, change the CO₂ cartridge.



WARNING: Keep your face and hands at a safe distance and use caution when removing the CO₂ cartridge, as escaping CO₂ gas can cause frostbite.

Make sure the safety is ON, insert the CO₂ cartridge, and load the pistol as described. Safe shooting means that your target is secure and in front of you before you shoot.



WARNING: Be very careful where you aim this highly effective pistol. Aim only at objects that can be penetrated. Never shoot at hard surfaces or water. A pellet may ricochet and travel in another direction.

When you are certain that the target, backstop and surrounding area are safe, go through the proper steps to ready the weapon for firing. Only then should you shoot. Squeeze the trigger with steady pressure until the pistol fires.

Single and Double Action

You can fire in two different ways: using double or single action.

Double action shooting means that, when you pull the trigger, the pistol will be automatically cocked and produce a shot. Single action shooting, on the other hand, means that the pistol must be cocked manually before shooting. Then, pull the trigger.

After each shot, the slide moves backward and then forward, and in this way the pistol is cocked again.

After the second shot, the pistol is always pre-cocked.

There are two ways of cocking the pistol:

- Cocking the hammer with your thumb.
- Cocking the hammer by slowly moving the slide backward and then forward again.

If you wish to use the double action method following the first shot, the pistol should be uncocked (see point 2). After each shot, the trigger should return to its resting position to make the next shot. In case of negligence, the trigger lock prevents the pistol from being shot. Single action is recommended for a more precise shot.

Note: If the capsule pressure drops, the pistol will not have enough power to move the slide back and cock itself.

Note: If the capsule loses pressure, the slide will carry out a double blowback action. This is a sign that the CO₂ capsule should be replaced. While the slide may blowback twice, there will only be produced one pellet shot.

7. About CO₂

It is possible that certain conditions may affect a CO₂ pistol, which can impact its proper performance. These conditions include the usage, maintenance, and storage at certain temperatures that are higher or lower than normal outdoors temperatures (from 15 to 21°C). Another condition may be when the gun is shot at fast speeds.

1. High temperatures can increase pressure in the CO₂ capsule and also within the gun, leading to higher than standard operating pressure. This excess pressure could cause the gun to malfunction or be permanently damaged. Maximum storage or operation temperature should never exceed 50°C. This temperature can be reached if you leave the gun under direct sunlight on a bright day. Thus, to ensure proper gun operation, do not expose it to high temperatures or direct sunlight for long periods of time. Otherwise, the CO₂ capsule could overheat and explode, which could damage the weapon and cause injuries or death to people around it.
2. Fast consecutive shooting may produce a decrease of temperature in the gun, as well as the CO₂ capsule. This could lead to a lower muzzle speed, uneven gas pressure and impact on the blowback operation of the weapon.
3. Keep in mind that during a rapid-fire sequence, the muzzle speed will diminish with each shot, which may negatively affect the power of the shot.
4. Try not to shoot the weapon with a CO₂ capsule that has already lost a considerable portion of its pressure. Here are some indicators of insufficient CO₂ capsule pressure:
 - A) The sound of the shot is not as loud as when the capsule is full.
 - B) The ammunition hits the target, but in a lower position than it would with a full CO₂ capsule (that is, the shooting speed has dropped).
 - C) The slide no longer goes through the blowback process.
 - D) The slide will move twice (double blow-back action).



WARNING: Continued shooting when the cartridge has lost pressure could cause a pellet to lodge in the barrel. See the instructions on feed jam.

8. Adjusting the sight

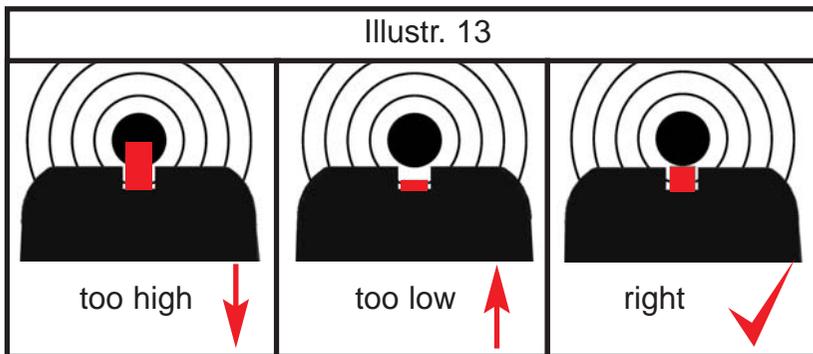
Aim at a secure target: Hold the weapon so that the rear sight is lined up with the front sight at the same time. The front sight should be exactly in the center of the notch of the rear sight. Next raise the gun so that the lower part of the target central round meets the front sight. The upper part of the lower sight, the upper part of the front sight and the lower part of the target should be in line. The impact point of pellets can be adjusted by means of the lateral adjustment screw in the rear sight. The pistol is adjusted by the factory to shoot from a distance of 101 yards (10 m).

Adjusting the standard sight system

To laterally adjust the standard sight system, it is necessary to move the rear sight. To do this, loosen the rear sight screw located on the top (illustration 11).

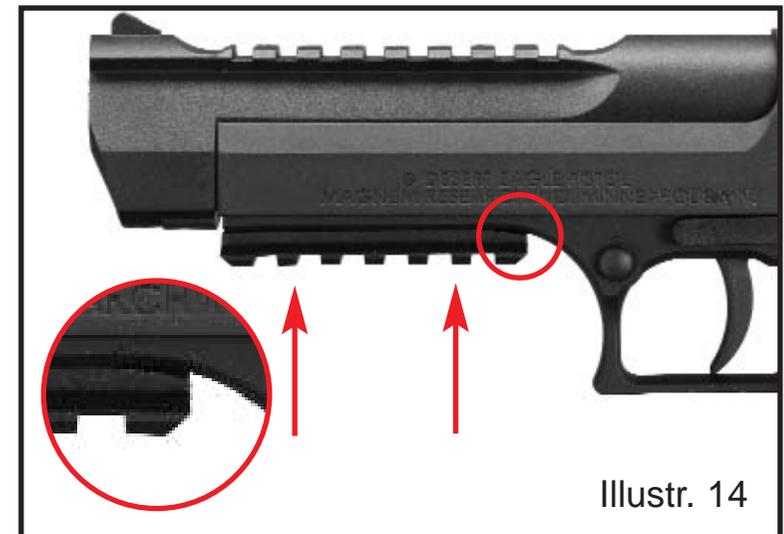
- For shots to head to the right: adjust the rear sight to the left.
- For shots to head to the left: adjust the rear sight to the right.

Finally, retighten the rear sight screw.



Set up of additional rail

To install the additional Weaver rail, attach it to the lower part of the grip using the two screws provided. Ensure that the rounded part of the rail is pointing toward trigger (illustration 14).



9. Maintenance



Never leave a loaded gun unattended!

Maintenance and storage of your weapon should always be done when the weapon is unloaded. Set the safety in the "on" position, carefully confirm that there is no ammunition in the barrel, remove the CO₂ capsule, and remove the Diabolo pellets from the drum. Keep the weapon **out of the reach of children** and those who are unfamiliar with its use. Store the weapon separately from the pellets and the CO₂ capsules.

10. Care

If proper maintenance is done on the pistol and it is treated with care, it should cause no technical problems.



WARNING: Do not attempt to clean your pistol without first having put the safety on, removed the pellet cylinder and CO₂ cartridge, and checked to ensure that no pellet remains in the barrel.

To clean the outside, use a damp cloth.

To guarantee continued function of the weapon, shoot it at regular intervals (approximately each 500 to 1000 shots) using Walther valve maintenance capsules and use Walther quick cleaning plugs approximately every 250 shots (review the section on special accessories). Apply between 2 and 3 drops of special weapons oil to the following pieces:

Slide guides, hammer rod, trigger pin.

11. Problems

| Problems | POSSIBLE REASONS | safety is on | CO ₂ -cartridge is empty | barrel is dirty | CO ₂ -cartridge is defective | extreme temperatures | incorrect pellets | pellets inserted in the pellet cylinder incorrectly | slide is not properly closed and locked | Incorrect side adjustment | The shooting sequence is too fast (temperature falls). |
|-------------------------------|------------------|--------------|-------------------------------------|-----------------|---|----------------------|-------------------|---|---|---------------------------|--|
| Bad shooting performance | | ● | ● | | ● | ● | ● | | ● | | |
| Gun does not function | ● | ● | | ● | | ● | ● | ● | | | |
| Low pellet velocity | | ● | ● | | ● | ● | ● | | | | ● |
| The pistol does not blowback. | | ● | | ● | ● | | | | | | ● |

12. Modifications to the pistol



WARNING: The different components of this weapon have been designed and manufactured to guarantee optimal function and performance at all times. Any modification in the design or adjustment in the performance may cause malfunction, and with it, the weapon could become unsafe.
The warranty shall not be applicable if the pistol has been modified without authorization.

13. Technical service for Umarex weapons

WARNING: A weapon that malfunctions may be dangerous. Therefore, you should store it in a safe place so no one uses it before it is repaired. It is complicated to repair a weapon on your own. In addition, an improper setup could cause malfunction that may end up being dangerous



Make sure the pistol is examined and repaired only by authorized, specialized personnel or by a gunsmith.

14. Warranty for Umarex weapons

If the problem is as a result of a manufacturing defect, Umarex will repair or replace the weapon at no cost, as long as it is under the legal warranty which begins on the date of purchase. Give the weapon to an authorized distributor and describe the problem to him, providing the proper proof of purchase.



IMPORTANT: When carrying the weapon, ensure that it is unloaded and the safety is on, as well as that the CO₂ capsule has been removed.

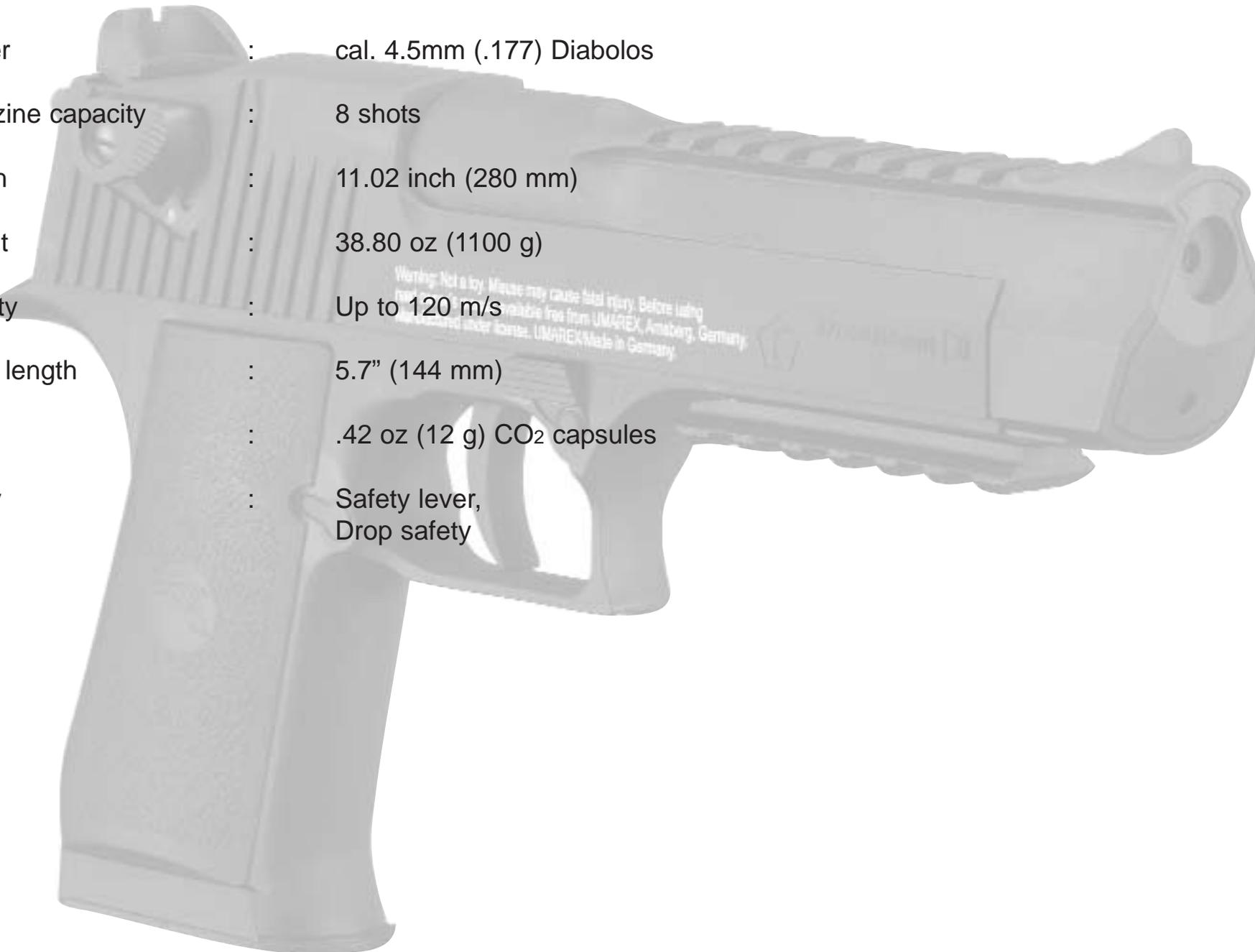
Weapons also suffer from wear and tear. If they are used intensively, usage marks may appear which generally are not indicative of malfunctions. The drum magazines where the pellets are inserted into suffer from special wear and tear, and therefore should be substituted when necessary (review chapter on special accessories).

15. Safe weapon handling

You should be familiar with the safe and proper handling of your weapon. Because your new weapon has a high shooting capacity, extreme precaution is advised. Regarding the basic rules to shoot safely, consider every contact you have with your weapon as part of its handling.

- Deactivate the weapon safety only when you are ready to shoot, and when you are done, activate it again immediately.
- Always treat the weapon as if it were loaded.
- Always load the weapon with the safety activated in order to avoid accidental shots being fired. Only put your finger on the trigger and pull it when you are going to shoot.
- Use only ammunition and CO₂ capsules designed for this weapon.
- Always keep the muzzle of the rifle pointed in a safe direction.
- This weapon may only be shot on the owner's property or at shooting ranges allowed by the police, as long as the ammunition does not travel further than the shooting area. Bear in mind that maximum pellet range is approximately 218 yards (200 m).
- Never transport the weapon when it is loaded. Only load it when you intend to shoot it.
- Never point the weapon at people or animals. Avoid shots where the ammunition could ricochet. Do not aim at hard, smooth objects or water. Pellets could ricochet.
- Before shooting, make sure the target and your surroundings are secure.
- Always confirm that the weapon is not loaded and that the safety is on when you carry it or give it to another person.
- Make sure the area you are pointing the muzzle at of the pistol is secure, including if you were to trip or the weapon were to fall.
- For security reasons, wear protective glasses when you shoot.
- Always store the weapon with the safety on, unloaded, separated from the ammunition and CO₂ capsules, and in a safe manner to prevent unauthorized people (those who have not been instructed on its use, children, and youths under 18) from accessing it.
- Give this weapon along with usage instructions only to those over 18, and make sure that they are as familiar as possible with its handling.
- Any modification or repair of the weapon should be carried out by a specialized company or weapons store.
- Never leave the weapon loaded if it is out of your reach.
- Unload the weapon before giving it to someone else.

16. Technical Data



| | | |
|-------------------|---|--|
| Caliber | : | cal. 4.5mm (.177) Diabolos |
| Magazine capacity | : | 8 shots |
| Length | : | 11.02 inch (280 mm) |
| Weight | : | 38.80 oz (1100 g) |
| Velocity | : | Up to 120 m/s |
| Barrel length | : | 5.7" (144 mm) |
| Action | : | .42 oz (12 g) CO ₂ capsules |
| Safety | : | Safety lever, Drop safety |

Special accessories for Magnum Research Mod. Desert Eagle

| | | | |
|---|--|---|---|
|  | <p>Point Sight PS22</p> <p>Red dot sight with 30 mm ring diameter, incl. pre-assembled quick mount for Weaver rail and dust protection caps. The brightness is adjustable in 11 settings</p> <p>Part. no.: 2.1020</p> |  | <p>Red-Dot-Sight PS44</p> <p>30 mm Red dot sight, with five brightness levels, military reticle and mounting kit for Weaver type rail.</p> <p>Part. no.: 2.1025</p> |
|  | <p>Multi-Dot-Sight MDS</p> <p>30 mm Red-Dot-Visier, adjustable dot size (4 settings) and brightness (8 settings). With integrated mount for Weaver-rail.</p> <p>Part. no.: 2.1023</p> |  | <p>Multi-Reticle-Sight MRS</p> <p>Red dot sight with variable reticles. By turning the switch 4 different reticles can be activated. With integrated Mount for Weaver-rail.</p> <p>Part. no.: 2.1024</p> |
|  | <p>Top Point II</p> <p>26 mm (1") Red dot sight, brightness adjustable in 11 settings, with Weaver mount rings and dust protection caps.</p> <p>Part. no.: 2.1018</p> |  | <p>Drum magazine</p> <p>pack of 3</p> <p>Part. no.: 416.120</p> |
|  | <p>Silhouette pellet trap</p> <p>The 4 large targets have to be knocked down by hits. When the center target is hit, all targets return to the upright position.</p> <p>Dimensions: 19,29" x 7.87" x 8.66" (49 x 20 x 22 cm)</p> <p>Part. no.: 3.2080</p> |  | <p>Pellet trap</p> <p>The funnel-shaped pellet trap made of sheet steel. Suitable for target sized 3.93" - 6.69" (10 - 17 cm). With loop for attachment on wall.</p> <p>Part. no.: 3.2071</p> |

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Special accessories for Magnum Research Mod. Desert Eagle



Umarex CO₂-Cartridges Pack of 25

.42 oz (12 g) CO₂-special capsule.
The filling corresponds to the highest standards and thus reduces the soiling of the valves by more than 80% in comparison to conventional CO₂ capsules.
Part. no.: 4.1687



Umarex CO₂-Cartridges Pack of 10

.42 oz (12 g) CO₂-special capsule.
The filling corresponds to the highest standards and thus reduces the soiling of the valves by more than 80% in comparison to conventional CO₂ capsules.
Part. no.: 4.1682



Quick cleaning pellets

With these cleaning pellets you can quickly clean all rifled and smooth barrels.

Part. no.: 3.2055



Valve maintenance capsules

The valve maintenance capsules are to be used in all CO₂ airguns suitable for .42 oz (12 g) CO₂ capsules. In addition to the CO₂ gas the capsules are also filled with .017 oz (0.5 g) of a special oil.

Part. no.: 4.1683



Diabolo Match

pack of 5000
4.1951



Diabolo Spitz

pack of 5000
4.1952



Finale Match

pack of 5000
4.1940



High Power Pellet

pack of 400
4.1675



Five Pack Set

this pack consists of
500 competition pellets (ribbed),
500 match pellets (smooth),
500 pointed waisted pellets (copper plated),
500 pointed waisted pellets (ribbed),
500 hollow Point pellets (smooth),
Part. no.: 4.1950



Safety glasses

For reason of safety these glasses are made from highly resistant polycarbonate lenses and are an absolute "must" during "Action Shooting".

yellow

Part. no.: 2.5013



17 x 17 cm,
Part. no.: 3.2095

Targets

Suitable for pellet trap 3.2071

(pack of 1000)



14 x 14 cm,
Part. no.: 3.2098

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