



Safety and Instruction Manual



Capricorn Rafal TT30 Caliber .30 bore



READ THIS MANUAL
CAREFULLY BEFORE USING THE
FIREARM



IMPORTANT SAFETY
INFORMATION INSIDE



CRAFTED ON LEGACY.
ENGINEERED FOR TODAY

Thank you for choosing a product from Capricorn Art Works Pvt. Ltd.

The better you understand your weapon, the safer and more confident you will be in using it. We therefore strongly recommend that you carefully read these operating and safety instructions before handling or operating the weapon.

Please keep this instruction manual throughout the lifetime of the weapon and ensure that it is passed on to any future operator or owner, together with any additional supplements provided.

**Crafted on Legacy.
Engineered For Today.**



THE FIRST CONCERN WHEN HANDLING ANY FIREARM IS SAFETY. THE FAILURE TO DO SO MAY RESULT IN PROPERTY DAMAGE, SERIOUS BODILY INJURY OR EVEN DEATH.

NOTE: This safety & instruction manual should always accompany this firearm and be transferred with it upon change of ownership or when presented to another person. Barrel must be pointed in a safe direction. It is recommended that every person receive instruction from a competent firearms instructor before handling this or any other firearm. Know and obey all the firearm laws and regulations.

RESTRICT ACCESS: Firearms including the CAPRICORN RAFAL TT30 are potent weapons therefore it must be ensured that they are inaccessible to unauthorized person.

DISCLAIMER: Under no circumstances shall CAPRICORN ART WORKS PRIVATE LIMITED be responsible for incidental or consequential damages with respect to economic loss or injury to person or property due to negligence, improper use, failure to following instructions in this manual, unsafe handling, failure to maintain the pistol, unauthorized replacement of parts, disregard of statutory rules or laws or any other modification to the pistol. Failure to read these instructions and to follow these warnings may result in serious injury or death to you and others and damage to property.

IMPORTANT NOTICE: This firearm underwent rigorous testing, inspection, and packaging before leaving the factory. As we cannot control the firearm after it leaves our premises, it is imperative that you examine it at the time of purchase to confirm it is unloaded and free from damage

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FOREWORD

The CAPRICORN RAFAL TT30 is a single-action, recoil-operated, semi-automatic pistol chambered for the .30 ACP cartridge. Its design combines a traditional pistol profile with a steel slide and metal frame, giving it a distinctive, refined appearance.

The pistol features a full-steel slide, metal frame, and an 8+1-round detachable magazine. Its single-action trigger system is paired with a manual safety, while conventional front and rear sights provide the standard sighting arrangement.

The pistol has a barrel length of 116mm, an overall length of 196mm and a weight of 814g (without magazine). The CAPRICORN RAFAL TT30 has a black finish and a textured grip for enhanced control and comfort.

The 'CAPRICORN RAFAL TT30' is the result of research and development by Capricorn Art works Private Limited. The company aims to provide high-quality firearms to the Indian market.

Capricorn Art Works Private Limited has its manufacturing unit at

Aryans, E-527 M.I.A. Road No.10, 2nd Phase Basni Jodhpur 342001 Rajasthan where it manufactures a range of firearms.

The 'CAPRICORN RAFAL TT30' is meticulously engineered and elegantly finished to meet the needs of discerning users. Thank you for choosing Capricorn Art Works Private Limited, your trust inspires us to deliver only the best.

TECHNICAL SPECIFICATIONS

Caliber	.30ACP/7.62mm
Type	Pistol
Firing System	Semi-Automatic
Length	196mm
Height	131mm
Width	30mm
Safety system	Half-Cock Safety
Weight (without magazine)	814 g
Magazine Capacity	8+1
Barrel Length	116mm
Trigger Action	Single Action

SAFETY RULES

- Safety should be the first concern of every firearm owner in every situation.
- Always treat your firearm as loaded as such that it will fire if the trigger is pulled; so, handle it with care.
- Do not put your finger inside the trigger guard unless you intend to fire.
- Do not fire randomly in public places and into the sky because the bullet can travel in unpredictable directions with considerable velocity and can glance off from any surfaces like rocks or surface water causing unwanted injuries and damages to anyone or any property.
- Never lock a loaded firearm and never load a locked firearm.
- Before handling any firearm familiarize yourself with its working and never depend on its mechanical features alone.
- Do not consume intoxicants before or while shooting; make sure not to use the firearm in unstable mental or physical conditions.
- Always wear eye and ear protectors that are specified for firearm use.
- Know all the legal consequences of using the firearm.
- Before using your firearm ensure that there are no obstructions in the barrel like mud, water, snow or any other object causing dangerous increase in pressure resulting in damage of your firearm and causing unwanted injuries to yourself and others.
- Always use the specified ammunition for your firearm.
- Do not disassemble, manipulate, adjust or change any of the internal components of your firearm resulting in improper functioning thus affecting the safety and reliability of your firearm.

STORAGE

- One of the most important rules of firearm safety is its safe and secure storage.
- Keep your firearm locked, unloaded and secure when not in use.
- Keep ammunition and the firearm in separate location.
- Always prevent your firearm from being stolen or being used by untrained or unqualified individuals.
- Do not assume a hiding place is a safe storage location and make sure to change the storage place of your firearm from time to time in order to maintain its inaccessibility from unauthorized persons.
- Always keep your firearm away from children.

TRANSPORTATION

- Safe and secure transportation of your firearm is solely your responsibility.
- Make sure your firearm is always unloaded and locked during transportation.
- Obey all the laws relating to the storage and transportation of firearms. Your local police department can furnish you with available information on storing and transporting a firearm thus preventing unauthorized access of your firearm by others.

MAIN COMPONENTS



1.	Slide (with Front and Rear Sight)	2.	Hammer Housing Assembly
3.	Barrel with link	4.	Barrel Bushing
5.	Frame (including Grips & Trigger System)	6.	Slide stopper
7.	Recoil Spring with Lock	8.	Magazine

PISTOL INSPECTION

- Before inspecting your firearm ensure that it is unloaded. To do this hold the grip of the frame with your finger off the trigger and outside the trigger guard, point the barrel in safe direction and then remove the magazine by pressing the magazine release button. (Fig.1)



Fig.1

- Hold the slide from its serrated sides from the rear end with thumb and fingers and pull the slide in fully backward position to extract any cartridge from the chamber and clear it from the pistol. (Fig.2)



Fig.2

- To lock the slide in open position, insert an empty magazine into the pistol and then pull the slide fully back and then release to lock it open then remove the magazine and visually check that there is no obstruction in the chamber and the bore is clean and dry.
- Also check that the firing pin is not protruding out from the breech face if it happens so then do not try to load the firearm instead get it examined from a certified gunsmith. (Fig.3 & Fig.4)



Fig.3



Fig.4

FUNCTIONAL PRINCIPLES

1. Cocking the hammer

- The hammer is cocked by pulling the slide backward.
- When the slide is released and moves forward, a cartridge is taken from the magazine and placed into the barrel.
- The pistol is then loaded and ready to fire.

2. Firing the cartridge

- The trigger is pulled backward, which releases the hammer.
- Due to the force of the spring, the hammer moves forward and strikes the firing pin.
- The firing pin strikes the primer of the cartridge, causing the cartridge to fire.

3. Extraction and ejection

- After the cartridge is fired, the pressure of the expanding gases causes the bullet to leave the barrel.
- The slide moves backward, extracting and ejecting the empty cartridge case.
- At the same time, the hammer is cocked again.

4. Loading the next cartridge

- The recoil spring causes the slide to move forward.
- As the slide moves forward, it brings another cartridge into the barrel.

5. After the last cartridge is fired

- When the last cartridge is fired, the **slide stopper (A)** is lifted.
- Its lug enters the notch on the slide.
- This holds the slide in the **rear position** (Fig. 5).



Fig.5

6.Replacing the magazine

- To continue shooting, the empty magazine must be replaced with a loaded one.
- Press the **magazine release button (B)** to remove the empty magazine.
- When a loaded magazine is inserted, Push the **slide stopper (A)** in downward direction.
- The slide is then released and moves forward, loading a cartridge into the barrel.
- The pistol is then ready to fire again.

7. If the magazine is not replaced

- If there is no need to replace the magazine after the last cartridge has been fired, the **slide stopper (A)** is pressed downward.
- This releases the spring, which returns the slide to the **front position**.

8.Blocking the Pistol

There are **two ways to block the pistol with the hammer**:

(1)When the hammer is cocked

- When the hammer is cocked, hold the hammer and pull the trigger until the hammer is released.
- Release the trigger and slowly lower the hammer until the **sear catches the first cam on the hammer**.
- This blocks both the **hammer and the slide**.
- This action should be performed **very carefully, with the pistol pointed upwards**. (Fig.6)

(2)When the hammer is lowered

When the hammer is already lowered, pull it backward a short distance until the **trigger catches the first cam on the hammer**.

This blocks the pistol.

If you want to fire, pull the hammer **fully backward**. (Fig.7)



Fig.6



Fig.7

DISASSEMBLY

1. Removing the magazine (Fig.8)

- Release the magazine by pressing the **magazine release button** and then remove the magazine from the pistol.
- Unload the magazine by holding it with the bullet end of the cartridge pointing away from you and pressing each cartridge forward and out of the magazine.
- Before proceeding with further disassembly, pull the slide backward and check whether there is a cartridge in the barrel.



Fig.8



Fig.9

2. Releasing the Slide Stop Retainer Clip (Fig. 9)

- The slide stopper is secured by a **Slide Stop Retainer Clip**.
- To release the slide stopper, push the Slide Stop Retainer Clip backward using a wooden object.

3. Removing the Slide Stopper (Fig. 10)

- Push the released slide stopper toward the **left side of the pistol**



Fig.10

4. Separating the Slide and Hammer Housing Assembly from the Frame (Figs. 11 and 12)

- Push the slide forward to separate it from the frame.
- The **barrel, recoil mechanism, and guide bushing** are removed together with the slide.
- Once the slide is separated from the frame, pull the **Hammer Housing Assembly upward** and separate it from the frame.



Fig.11



Fig.12

5. Removing the Recoil Mechanism (Recoil Spring with Guide) (Fig.13)

- Push the guide toward the muzzle.
- Lift the recoil spring and guide.
- Remove the recoil mechanism from the slide.



Fig.13

6. Removing the Guide Bushing (Fig.14)

- Turn the guide bushing **180°**.
- Remove the guide bushing from the slide.



Fig.14

7. Separating the Barrel (Fig.15)

- Push the barrel so that its ribs come out of the grooves in the slide.
- Rotate the connecting plate until it rests against the barrel.
- Pull the connecting plate forward to remove it from the barrel.

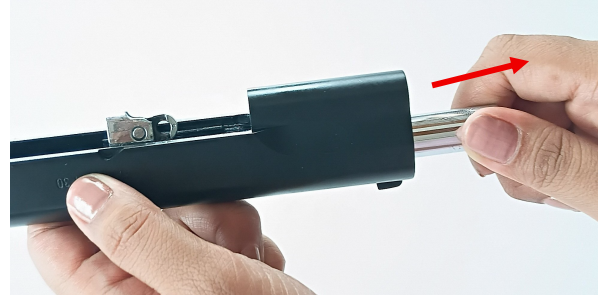


Fig.15

8. Further Disassembly

- The pistol is stripped for **cleaning and lubrication**.
- The owner should **not disassemble the pistol any further**.
- Any further maintenance or disassembly should be performed by a qualified gunsmith or authorized service professional.

CLEANING AND LUBRICATION

- Before cleaning check that the pistol is unloaded (magazine removed from pistol and chamber clear). Also ensure that the magazine is unloaded.
- Your firearm is a precision instrument. After each use of the pistol or after being subjected to extreme weather conditions, the pistol should be cleaned and lubricated.
- Also, before using the pistol for the first time, it should be examined and cleaned.
- Starting with the barrel and from chamber end, insert a brass brush/cloth through the bore of the barrel until the bristles completely exit at muzzle end.
- Pull the brush back until the bristles completely exit at chamber end.
- Remove any residue on the frame with light brushing.
- After cleaning, lightly coat the metal parts, internal and external with high-quality firearm oil.

ASSEMBLY

- The firearm is assembled by following the reverse sequence of the disassembly process.
- During assembly, the relevant components must be correctly aligned and positioned.
- The guide, barrel, connecting plate, and slide stopper components must be properly seated.
- The guide should be correctly positioned relative to the barrel and guide bushing.
- The slide stopper components should align correctly with the corresponding openings in the frame.
- Safety check: After assembly, the firearm should be inspected to ensure that it is properly assembled and functioning safely.



Fig.16

Position of the guide



Fig.17

Position of parts before inserting slide

BUYER INFORMATION

Serial No.: _____

Buyer Name: _____

Address: _____

Mobile Number: _____

License Number: _____

UIN: _____

Date of Sale: _____



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