TM22



USERS MANUAL



WARNING: READ THE INSTRUCTIONS AND SAFETY PRECAUTIONS IN THIS MANUAL CAREFULLY BEFORE USING THE FIREARM.

ROCK ISLAND ARMORY

USERS MANUAL TM22 AND TM22 FEATHER RIFLE SAFETY, INSTRUCTION AND PARTS MANUAL



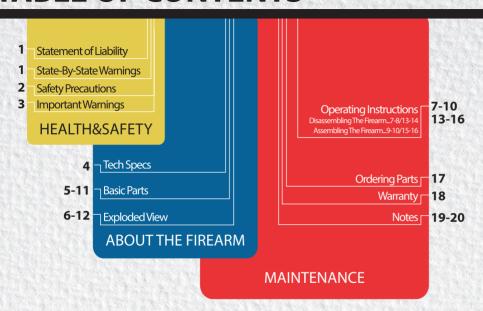
As a responsible owner of this firearm, you must read the instructions and warnings in this manual carefully. Before using this firearm, make sure you understand throughly the contents of this manual.

This manual must always be in the firearms carrying case whenever the owner/user brings it or when it transfers ownership. A copy of this manual is available upon request from:

ARMSCOR PRECISION INTERNATIONAL

150 N Smart Way, Pahrump NV 89060 E-mail: support@armscor.com

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STATEMENT OF LIABILITY

This firearm is classified as a firearm or dangerous weapon. It is expressly understood that we assume no liability for its resale or unsafe handling under local laws and regulations. Armscor assumes no responsibility for physical injury or property damage resulting from either intentional or accidental discharge, or for the function of the firearm subjected to influence beyond their control. Armscor will honor no claims which may result from careless handling, unauthorized adjustments, defective or improper ammunition, corrosion or neglect. Examine your firearm carefully at the time of purchase. It should be forwarded immediately to the factory or its sales agent if any adjustment of any kind is required.

State-By-State Warnings



CALIFORNIA STATE WARNING

CHILDREN ARE ATTRACTED TO AND CAN OPERATE FIREARMS THAT CAN CAUSE SEVERE INJURIES OR DEATH, PREVENT CHILD ACCESS BY ALWAYS KFFPING FIRFARMS LOCKED AWAY AND UNI OADED WHEN NOT IN USE. IF YOU KEEP A LOADED FIREARM WHERE A CHILD OBTAINS AND IMPROPERLY USES IT. YOU MAY BE FINED OR SENT TO PRISON. IT IS UNLAWFUL TO USE A MAGAZINE WITH A CAPACITY OVER 10 ROUNDS



MASSACHUSETTS STATE WARNING

IT IS UNLAWFUL TO CARRY ANY MAGAZINE OR BELT WHICH HOLDS MORE THAN TEN ROUNDS. UNLESS AUTHORITY IS GRANTED BY THE BOSTON POLICE COMMISSIONER. IT IS UNLAWFUL TO STORE OR KEEP A FIREARM. RIFLE, FIREARM OR MACHINE GUN IN ANY PLACE UNLESS THAT WEAPON IS FOUIPPED WITH A TAMPER RESISTANT SAFETY DEVICE OR IS STORED OR KEPT IN A SECURELY LOCKED CONTAINER



NEW YORK STATE WARNING

IT IS UNLAWFUL TO CARRY ANY MAGAZINE OR BELT WHICH HOLDS MORE THAN SEVEN ROLINIOS LINEESS ALITHORITY IS GRANTED BY THE STATE OF NEW YORK THE LISE OF A LOCKING DEVICE OR SAFETY LOCK IS ONLY ONE ASPECT OF RESPONSIBLE FIREARMS STORAGE FOR INCREASED SAFETY FIREARMS SHOULD BE STORED UNLOADED AND LOCKED IN A LOCATION THAT IS BOTH SEPARED FROM THEIR AMMUNITION AND INACCESSIBLE TO CHILDREN AND OTHER UNAUTHORIZED PERSONS

02 | SAFETY PRECAUTIONS

Safety must be the first and constant consideration of every person who handles firearms and ammunition. The person with a firearm in his possession has an important responsibility. He/She must know how to use his/her firearm safely:

- 1. Always keep the muzzle pointed at a safe direction. Watch the muzzle at all times. Never point a gun, accidentally or intentionally, at any person or anything you do not intend to shoot. Identify the target before shooting; do not shoot at sounds.
- 2. Always treat a gun as if it is loaded it may be!
- **3.** Keep your finger off the trigger while operating the action and at all other times until you are ready to shoot.
- **4.** Keep the safety "on" or in the "safe" position at all times until you are ready to fire. Do not rely on your gun's safety, the safety on any gun is a mechanical device and is not intended as a substitute for common sense or safe gun handling.
- **5.** Learn how your gun functions and handles. If you do not thoroughly understand the proper use and care of your gun, seek the advice of someone who is knowledgeable.
- 6. Do not alter or modify any part of the firearm.
- **7.** Store guns unloaded, separate from any ammunition, and out of the reach of children.
- **8.** Be sure the barrels is clear of any obstructions before loading. Make it a habit to check the barrel every time before loading.
- 9. Be sure you have and use the proper ammunition.
- **10.** Wear protective shooting glasses, adequate ear protection and gloves when shooting.
- 11. Never climb or jump over anything, such as a tree, fence, or ditch, with a loaded gun. Open the barrel, remove the shells and hand the gun to someone else or place it on the ground on the other side of the obstacle before crossing it yourself. Do not lean a gun against a tree or other object; it could fall and possibly discharge.

- **12.** Do not shoot at a hard surface or at water. Bullet and shot can ricochet or bounce off and travel in unpredictable directions with great velocity.
- **13.** Never transport a loaded gun. Do not place a loaded gun into a vehicle. The gun should be unloaded and placed into a case when not in use.
- **14.** Never consume intoxicating beverages and/or drugs before or during shooting.

WARNING

DO NOT ATTEMPT TO USE ANY FIREARM WITHOUT HAVING A COMPLETE UNDERSTANDING OF ITS PARTICULAR CHARACTERISTICS AND SAFE USE. READ AND UNDERSTAND THIS MANUAL CAREFULLY BEFORE USAGE OF YOUR FIREARM.

WARNING

YOU SHOULD NEVER DEPEND ON A SAFETY MECHANISM OR ANY OTHER MECHANICAL DEVICE TO JUSTIFY CARELESS AND IMPROPER HANDLING.

WARNING

THIS FIREARM WAS MANUFACTURED TO PERFORM PROPERLY WITH THE ORIGINAL PARTS AND MAGAZINES AS DESIGNED. PLEASE MAKE SURE ANY PARTS YOU BUY ARE INSTALLED CORRECTLY AND THAT NEITHER REPLACEMENTS NOR ORIGINALS ARE ALTERED OR CHANGED. PUTTING A FIREARM TOGETHER INCORRECTLY OR WITH MODIFIED PARTS CAN RESULT IN DAMAGED FIREARM, DANGER, AND INJURY OR DEATH. ANY MODIFICATIONS TO FIREARM WILL VOID FACTORY WARRANTY.

WARNING

CHILDREN ARE ATTRACTED TO FIREARMS, AND MIGHT BE ABLE TO OPERATE THEM, THEY CAN CAUSE SEVERE INJURIES AND EVEN DEATH, TO THEMSELVES OR OTHERS. PREVENT CHILDREN FROM ACCESS, ALWAYS KEEP YOUR FIREARMS LOCKED AWAY, UNLOADED AND OUT OF REACH OF CHILDREN WHEN NOT IN USE AT ANY TIME.

WARNING

THE FIREARM SHOULD BE STORED IN ROOMS WITH A DRY ATMOSPHERE AND MINIMUM HUMIDITY. IT SHOULD NOT BE STORED ENCASED IN LEATHER OR ANYTHING THAT WILL ATTRACT AND HOLD MOISTURE, CAUSING IT TO RUST.

WARNING

DO ALL PROCEDURES (DISASSEMBLY, CLEANING AND OTHER MAINTENANCE) ONLY WHEN THE FIREARM IS UNLOADED. BE SURE THAT THE MAGAZINE TUBE, RECEIVER AND CHAMBER ARE EMPTY WHILE YOU ARE PROCEEDING. CHECK EJECTION PORT, LOADING PORT AND CHAMBER VISUALLY.

WARNING

ALL PRODUCTS HAVE 3" (76MM) CHAMBERS (EXEPT OTHERWISE STATED). YOU CAN SEE MARKS ABOUT GAUGES AND CHAMBER LENGTH ON THE GUN. EVERY FIREARM HAS PASSED DURABILITY TEST WITH SPECIAL HIGH PRESSURE CARTRIDGES.

WARNING

WHEN STORING THE GUN FOR A PROLONGED PERIOD OF TIME, IT IS NECESSARY TO OIL IT HEAVILY WITH AN ACID-FREE LUBRICANT. THE EXTERNAL PARTS MUST BE COATED WITH AN ANTI-RUST OIL OR GREACE TO PREVENT MOISTURE CAUSING THE PARTS TO RUST AND MALFUNCTION. BEFORE USAGE, THE FIREARM MUST BE CLEANED AND WIPED DRY AGAIN.

04 | TECH SPECS

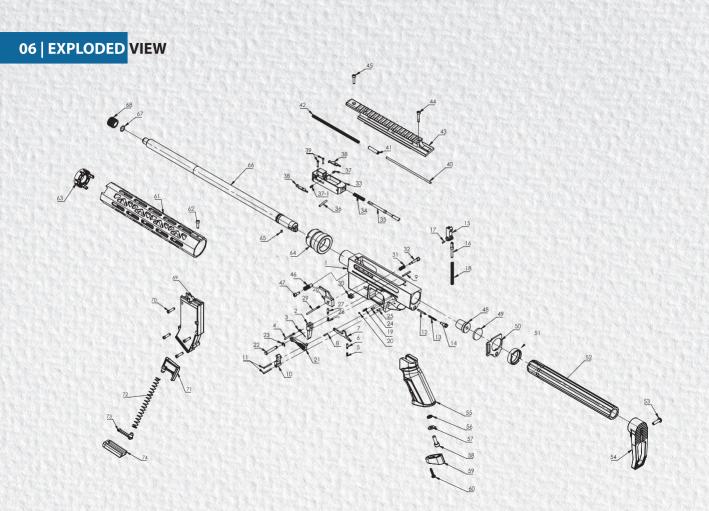
Model	TM22
Caliber	.22LR
Action	Semi Automatic
Capacity	10 Rounds
Barrel	Contoured
Barrel Length	457.2mm / 18" & 500mm / 20"
Overall Length	920mm / 36" & 950mm / 37"
Overall Width	50mm / 1.96″
Overall Height	180mm / 7.08″
Accs.	Picatinny Type Rail or Carry Handle
Weight, Empty	2.3kg / 5lb 2.9kg / 6.5lb.
Weight, Loaded	2.4kg / 5.3lb 3kg / 6.6lb.
Finish	Black Anodized
Stock	Fixed or Adjustable Stock
Thread	½ x 28 UNEF



05 | BASIC PARTS

P.NO	PART NAME	P.NO	PART NAME	P.NO	PART NAME
1	Lower Receiver	26	Ejector Spring	51	Stock Support Rubber
2	Trigger	27	Ejector Spring Pin	52	Stock Connector
3	Trigger Spring	28	Ejector	53	Pivot Nut
4	Trigger Pin	29	Ejector Pin	54	Stock Support
5	Trigger Socket Spring	30	Magazine Catch Button	55	Stock Fixing Screw
6	Trigger Socket Spring Pin	31	Magazine Catch Spring	56	Stock
7	Trigger Slide	32	Magazine Catch Button Screw	57	Pistol Grip
8	Trigger Slide Pin	33	Bolt	58	Pistol Grip Connector Washer
9	Trigger Docking Pin	34	Firing Pin Spring	59	Pistol Grip Custom Washer
10	Disconnector	35	Firing Pin	60	Pistol Grip Screw
11	Disconnector Docking Pin	36	Firing Pin Retainer	61	Pistol Grip Cap
12	Disconnector Socket Spring Pin	37	Right Extractor Spring	62	Pistol Grip Cap Screw
13	Disconnector Socket Spring	38	Left Extractor Spring	63	Forend
14	Disconnector Socket Screw	39	Right Extractor	64	Long Forend
15	Hammer Assembly	40	Left Extractor	65	Forend Upper Screw
16	Hammer Pin	41	Extractor Pin	66	Forend Connection Part
17	Hammer Spring Pin	42	Main Stick	67	Barrel Nut
18	Hammer Spring	43	Main Spring Stick Socket	68	Barrel Pin
19	Safety Detent Spring	44	Recoil Spring	69	18" Barrel
20	Safety Detent Ø3 Ball	45	Top Cover	70	20" Barrel
21	Safety Lever	46	Top Cover Back Screw	71	Barrel Shroud Oring
22	Safety Lever Pin	47	Top Cover Front Screw	72	Barrel Shroud
23	Crescent Washer	48	Charging Handle	73	10rd Magazine Body
24	Safety White Pin	49	Charging Handle Screw	74	Magazine Rivet
25	Safety Red Pin	50	Bolt Stopper	75	Magazine Follower
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P.NO	PART NAME	
76	Magazine Spring	
77	Magazine Base Plate Lock	
78	Magazine Base Plate	



DISASSEMBLY OF THE FIREARM

- 1) Remove the magazine. Check to see if the gun is loaded.
- 2) Unscrew the forend and receiver screws by using an allen wrench.



- 3) Pull the forend to forward.
- 4) Unscrew the barrel nut with a choke tube wrench.



- 5) Remove the barrel nut by pulling in arrow direction.
- 6) Pull the barrel in arrow direction.





DISASSEMBLY OF THE FIREARM

- **7)** Unscrew the charging handle screw with an allen wrench.
- **8)** Untighten the screws with an allen wrench.



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- 9) Detach upper from lower.
- **10)** Remove the main stick and the main spring by pulling upward.





- 11) Remove the bolt by pulling upward.
- **12)** To remove the stock, unscrew the pivot nut by using a choke tube wrench.
- **13)** Unscrew the stock support by turning in arrow direction.





ASSEMBLY OF THE FIREARM

- 1) Screw the stock support by turning in arrow direction.
- 2) Screw the pivot nut and tighten it with a choke tube wrench.
- 3) Mount the bolt on the lower.



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- **4)** Push the main stick and the main spring forward by pressing down.
- 5) Mount the upper to lower.



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- **6)** Tighten the screws with an allen wrench.
- **7)** Put the charging handle back by giving attention to the channels.





ASSEMBLY OF THE FIREARM

- 8) Tighten the screw with an allen wrench.
- **9)** Pull the barrel backward and place the barrel pin and the extension on their housing.



9

- 10) Screw the barrel nut in arrow direction.
- 11) Use a choke tube wrench to tighten it.





- **12)** Mount the forend by pulling backward.
- **13)** Screw the forend screws with an allen wrench.





11 | BASIC PARTS

PART NAME
Lower Receiver
Ejector Spring
Ejector Spring Pin
Ejector
Trigger Pin
Magazine Catch Button
Magazine Catch Spring
Magazine Catch Button Screw
Trigger Docking Pin
Trigger
Trigger Spring
Trigger Pin
Trigger Socket Spring
Trigger Socket Spring Pin
Trigger Slide
Trigger Slide Pin
Disconnector Spring
Disconnector
Disconnector Docking Pin
Hammer
Hammer Action Pin
Hammer Connection Pin
Hammer Spring
Safety Detent Spring
Safety Detent Ø3 Ball

P.NO	PART NAME
26	Safety Lever
27	Safety Lever Pin
28	Crescent Washer
29	Bolt
30	Firing Pin Spring
31	Firing Pin
32	Firing Pin Retainer
33	Right Extractor Spring
34	Left Extractor Spring
35	Extractor
36	Extractor Pin
37	Main Spring Stick Socket
38	Recoil Spring
39	Main Stick
40	Top Cover
41	Top Cover Screw
42	Top Cover Screw
43	Charging Handle
44	Charging Handle Screw
45	Barrel Nut
46	Barrel
47	Chamber Nut
48	Barrel Pin
49	Barrel Shroud Oring
50	Universal Barrel Nut

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PART NAME
Upper Forend
Lower Forend
Sling Swivel
Forend Drop In
Forend Nut
Front Sight
Stock Connector
Stock
Pistol Grip
Pistol Grip Connector Washer
Pistol Grip Custom Washer
Pistol Grip Screw
Pistol Grip Cap
Pistol Grip Cap Screw
Safety White Pin
Safety Red Pin
Carry Handle
Magazine Body
Magazine Follower
Magazine Spring
Magazine Base Plate Lock
Magazine Base Plate

Note: Some models will vary from exploded view.

12 | EXPLODED VIEW

DISASSEMBLY OF THE FIREARM

- 1) Remove the magazine. Check to see if the gun is loaded.
- 2) Unscrew the front sight screws by using an allen wrench.
- 3) Pull the front sight to forward.
- **4)** Unscrew the forend nut by turning in arrow direction.
- **5)** Pull the sling swivel and forend drop in to forward.
- **6)** Unscrew the carry handle screw.
- 7) Pull the forend to forward.
- **8)** Pull the carry handle to backward.

















DISASSEMBLY OF THE FIREARM

- 9) Unscrew the barrel nut with a choke tube wrench. Remove the barrel nut by pulling in arrow direction.
- **10)** Pull the barrel in arrow direction.
- 11) Unscrew the charging handle screw with an allen wrench.
- **12)** Untighten the screws with an allen wrench.
- 13) Detach upper from lower.
- **14)** Remove the main stick and the main spring by pulling upward.
- **15)** Remove the bolt by pulling upward.















ASSEMBLY OF THE FIREARM

- 1) Mount the bolt on the lower.
- 2) Push the main stick and the main spring forward by pressing down.
- 3) Mount the upper to lower.
- 4) Tighten the screws with an allen wrench.
- 5) Put the charging handle back by giving attention to the channels. Tighten the screw with an allen wrench.
- 6) Pull the barrel backward and place the barrel pin and the extension on their housing.
- 7) Screw the barrel nut in arrow direction. Use a choke tube wrench to tighten it.
- 8) Pull and mount the carry handle to forward.

















ASSEMBLY OF THE FIREARM

- **9)** Mount the forend by pulling backwards.
- **10)** Screw the carry handle screw.
- **11)** Pull the sling swivel and forend drop in to backward.
- **12)** Screw the forend nut by turning in arrow direction.
- **13)** Pull the front sight to backward.
- **14)** Screw the front sight screws by using an allen wrench.

15) Now you can put the magazine but check if the gun is loaded.















ORDERING PARTS

Visit RIA website to browse, learn more about and purchase parts and ammunition for all of your Rock Island Armory products.





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- ROCKISLANDARMORY
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18 | WARRANTY

WARRANTY REGISTRATION

Armscor's warranty covers its firearms and parts. We offer limited lifetime warranty on our products for their intended purpose. As with any product, abuse, gunsmitting by an unqualified person and normal wear and tear are excluded. Additionally, if the firearm was modified and/or repaired by an unqualified gunsmith without permision from Armscor, then the warranty will be void. If warranty work should be required, return the firearm to the address listed below. There is no refund for the shipping cost. Gunsmithing services are available by registered Armscor Gunsmithers. Please email the address below.

To register your firearm, please go to www.rockislandarmory.com/support-center/warranty/ and complete online warranty form. In comments section, write warranty registration and press submit. You can also go to www.rockislandarmory.com and press warranty section at the bottom.

For more information on warranty, visit www.rockislandarmory.com, or email support@armscor.com

Armscor Precision International 150 North Smart Way Pahrump, NV 89060 Email: support@armscor.com

IMPORTANT WARRANTY INFORMATION

Our Rock Island Armory firearms are warranted to function only with Factory Ammo and the Original Factory Magazine. Use of Handloads is not covered in Warranty of Repair for the function of the Firearm.

DUE TO THE FIT AND TIGHTNESS OF FIREARM, RIA RECOMMENDS A BREAK-IN PERIOD OF 500 ROUNDS.

THIS IS HOW YOU VOID YOUR WARRANTY

- * Refinishing your RIA firearm
- * Misuse, Mishandling, Dropping your RIA Firearm
- * Firing Remanufactured or Reloaded Ammunition
- * Not properly reassembling your RIA Firearm resulting in damage, ie reverse plugs!
- * Any addition of after market parts
- * Unauthorized repairs done by any other than Rock Island Armory

LIMITS ON WARRANTY (will not cover)

- * Finish, Holster wear, Scratches, Chemical damage
- * After Market Magazines
- * Damage to Factory Magazines
- * Sights not installed by Rock Island Armory
- * Recoil Springs

WE RESERVE THE RIGHT TO CHARGE FOR LABOR, PARTS AND SHIPPING TO RETURN YOUR RIA FIREARM BACK TO FACTORY SPECIFICATIONS IF IT HAS BEEN ALTERED.

19 | NOTES

20 NOTES	KEEP THIS CARD FOR YOUR RECORDS
	Serial Number Date Of Purchase Place Of Purchase

IMPORTS

WWW.ROCKISLANDARMORY.COM