



## Notes for your own settings

Tips: Make note of the original setting before you start tuning your air rifle.

Caliber				
Regulator Pressure				
Power Setting/Energy				
Power tuning Adjuster				
Velocity				
Pellet/Slug				
Pellet/Slug Weight				
Distance				
Remarks				

## HUBEN K1 AIR RIFLE HANDLING & INSTRUCTION MANUAL



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### Contact information:

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[www.hubenairgun.com](http://www.hubenairgun.com)

**THANK YOU FOR CHOOSING HUBEN K1!**  
**YOU ARE HANDLING A REVOLUTIONARY DESIGNED HAMMERLESS**  
**SEMI-AUTOMATIC, PRE-CHARGE PNEUMATIC AIR RIFLE!**

PLEASE READ THIS MANUAL COMPLETELY BEFORE HANDLING OR SHOOTING. USE CAREFULLY IN ITS OPERATION. OPERATE THE RIFLE CORRECTLY AND SAFELY. OBTAIN AND OBEY THE RELEVANT REGULATIONS AND LAWS IN YOUR LOCATION. AND BE RESPONSIBLE IN YOUR USE OF THIS AIR RIFLE.



**WARNING:**

**WARNING:** Never attempt to disassemble this air rifle.

**WARNING:** Not a toy. This air rifle is intended for adult use only. Misuse or careless use may cause serious injury or death.

**WARNING:** Never point this air rifle at anyone ever at any time.

**WARNING:** Lead pellets. Do not inhale dust or put pellets in mouth. Wash hands after handling. This product contains lead, a chemical known to public to cause cancer and birth defects (or other reproductive harm).

**WARNING:** Use only clean and dry compressed air or inert gas in this air rifle. Do not use no Oxygen or other combustible gases, which can cause a fire or explosion that may result in serious injury or death.

**WARNING:** This air rifle could fire when dropped or jarred, with or without the safety engaged.

**WARNING:** Working temperature: - 10°C / 14°F to 60°C / 14°F

Before using your new air rifle, check if it is properly charged and obey below basic safety rules:

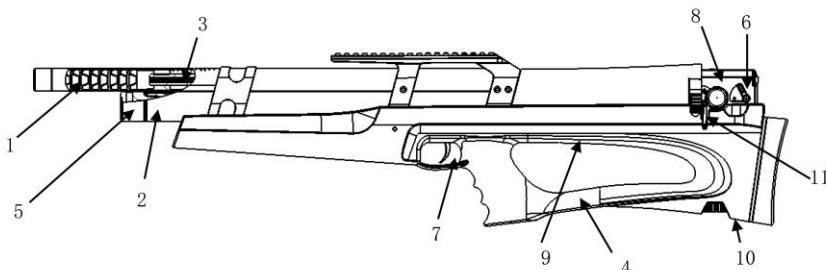
1. This air rifle can cause serious injuries and even death, whether it is loaded or not.

2. Never point the rifle at anyone, or allow anyone pointing a rifle at you, even if you know it is unloaded.
3. Always carry the rifle with the safety on "SAFE" and in such way that the direction of the muzzle will be under your control, even if you stumble.
4. Always be sure of your target and what lies behind it before firing with a rifle.
5. Never leave a loaded air rifle unattended.
6. Beware of targets that tend to cause ricochets (water, rocks, metal ... etc).
7. It is recommended that eye & ear protection be worn when charging the cylinder and while shooting.

Please read this owner's manual completely. Keep in mind that an air rifle is not a toy. Always carefully follow the safety instructions in this manual and keep this manual for future reference.

**PART1. BASIC COMPONENT INSTRUCTION**

**FIG 1. BASIC COMPONENTS**



1. Suppressor	2. Cylinder Tube	3. Barrel	4. Stock	5. Fill Hole
6. Safety	7. Trigger	8. Pressure Gauge	9. Constant Pressure Regulator	
10. Velocity Regulator	11. Magazine			

## PART2. SPECIFICATION

MODEL	K1
BARREL	560mm / 22 inches
CALIBER	.22(5.5mm) OR .25(6.35mm)
VELOCITY	UP TO 1000fps
SAFETY	MANUAL SAFETY
CYLINDER PRESSURE	MAX 35MPa / 350bars / 5075psi
AIR CAPACITY	292ml, TITANIUM ALLOY
CONSTANT PRESSURE	ADJUSTABLE CONSTANT PRESSURE
MAGAZINE TYPE	AUTO ROTATE .22(5.5mm) – 19shots; .25(6.35mm) – 17shots
SUPPRESSOR	INTEGRATED BAFFLES INSIDE SHROUD WITH VENT HOLES
POWER SETTING	CHANGEABLE POWER SETTING From 8J to 100J
RAIL	PICATINNY RAIL
STOCK	SYNTHETIC STOCK OR WOODEN STOCK
DIMENSION (LxWxH)	810mm X 50mm X 190mm (32in X 2in X 7.5in)
NET WEIGHT	3.4kg / 7.5 pounds
ACCESSORIES	FILL ADAPTOR, SPARE PARTS PACKAGE, TOOLS, OWNER'S MANUAL

## PART3. FUNCTION

1. Easy operation and high power (precision semi-auto valve without hammer).
2. High performance integrated silencer with tiny vent hole for a light and gentle report.
3. Integrated charging port with replaceable filter (various filter materials can be utilized, such as: paper, cotton, even napkin, as well as desiccant dryer material for cleaning the air supply).
4. Easy to load 19 shot (.22 caliber) or 17 shot (.25 caliber), non-removable circular magazine.
5. Adjustable constant pressure regulator (the pressure can be adjusted to fit for various pellets/slugs to obtain the best shooting accuracy).
6. Adjustable dynamic power to meet shooting requirements.
7. Titanium alloy air reservoir (withstands higher pressure for increased shot count).

## PART4. OPERATION

### 1. MANUAL SAFETY

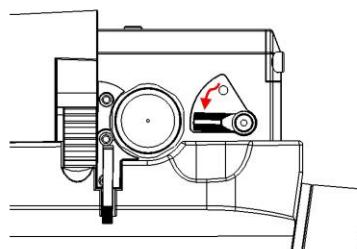


FIG.2

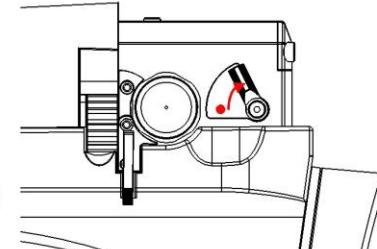


FIG.3

- ❖ Safety can be set to ON/OFF by hand.  
(the red dot isn't visible means ON, the red dot is visible means OFF)
- ❖ Push the safety lever in the direction of the arrow to the "SAFE" position. The safety is ON, the trigger is blocked and the rifle cannot be fired. (FIG.2)
- ❖ Push the safety lever in the direction of the arrow to the OFF position, the rifle can be fired. (FIG.3)

- ❖ To avoid accidental discharge, keep the safety ON until you are sighted in on your target and ready to fire.

## 2、FILLING THE RIFLE

Attach the fill probe to your charging equipment, which must be equipped with a pressure gauge. Ensure both fill probe and the filler hole are clean from dirt, and then insert the fill probe into the filler hole (See FIG.4).

We recommend you fill the cylinder tube to more than 20MPa / 2900psi.

Never exceed the maximum storage pressure of 35MPa / 5075psi.

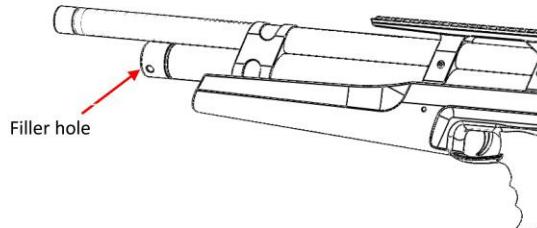


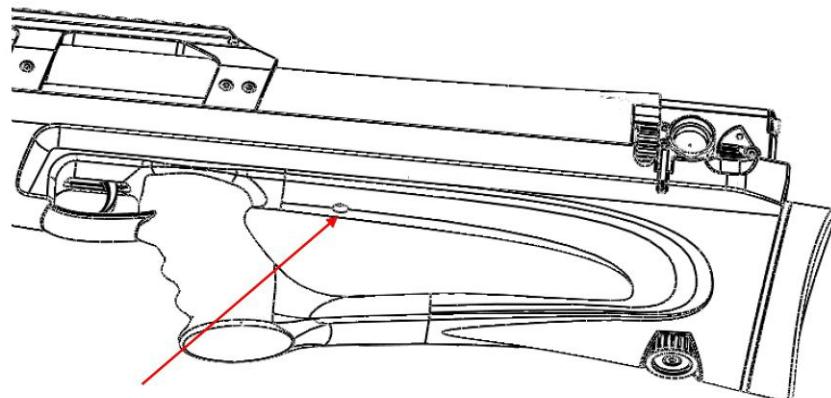
FIG.4

- ❖ When filling the rifle, ensure the magazine is unloaded.
- ❖ Be sure that the safety is on "SAFE" when filling the rifle, to avoid accidental firing.
- ❖ After filling the rifle, open the bleed valve on the filling equipment, ensure the air in the hose is exhausted out, then remove the fill probe from the filler hole. Then close the bleed valve.
- ❖ The cylinder tube is not removable. DO NOT disassemble the rifle under any circumstance.
- ❖ When the temperature of the rifle is below 0°C / 32°F, make sure that there is no moisture in the air of cylinder tube. Otherwise the moisture would become ice particles and possibly damage the dynamic sealing parts causing an air leak. USE CLEAN & DRY AIR AT ALL TIMES.
- ❖ Check and renew the filter element frequently.
- ❖ When filling the rifle ensure the magazine is unloaded.
- ❖ It is best to store the rifle with air in the cylinder tube.

## 3. REGULATOR AND POWER ADJUSTMENT

- ❖ The dynamic power should match to the working pressure (eg, 100J dynamic power should be not less than 18MPa working pressure), or it will lead to unusual leakage and cocking failure
- ❖ In case the pellets can't be fired, the adjustable power should not be set too low for heavy and over-sized pellets.
- ❖ The regulator pressure will increase or decrease after a long period non-use, while it will return back to normal when you use it. Note to adjust the adjustable power from the low to the high.
- ❖ When you clean the barrel, be certain that the magazine is unloaded and adjust the adjustable power wheel to the fully closed and lowest setting.

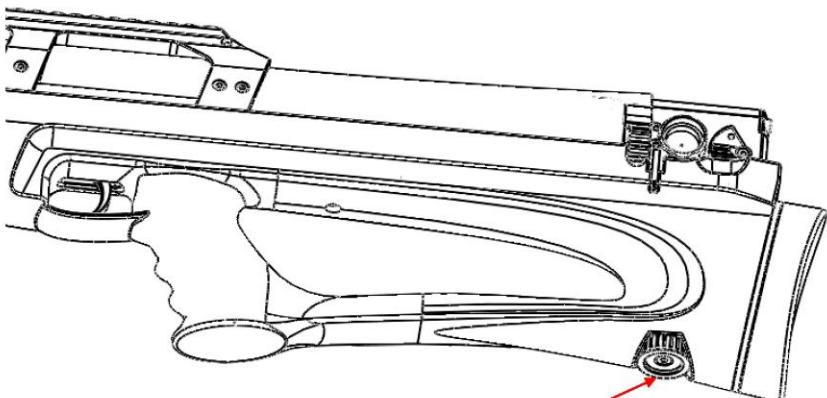
### REGULATOR PRESSURE ADJUSTMENT



The pressure increases when turn clockwise and lowers when turn counter-clockwise  
Tool: Allen wrench

FIG.5

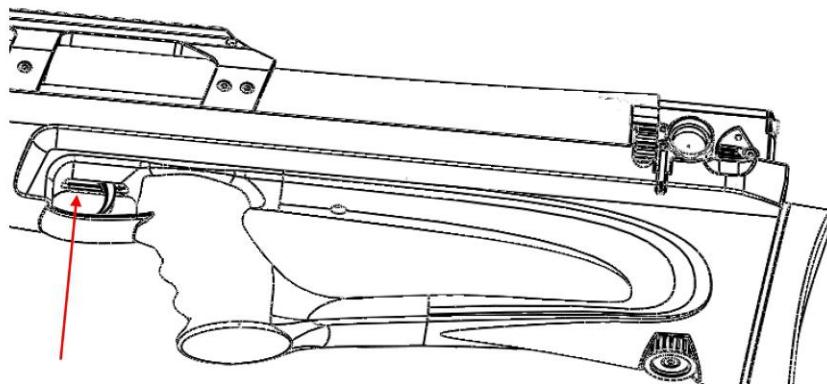
**POWER ADJUSTMENT:**



Velocity adjustment (the adjustable power lowers when turn clockwise and increases when turn counter-clockwise)

FIG.6

**ADJUSTMENT TO COCKING SPOT OF TRIGGER**



Adjust the cocking spot of trigger (forward or backward the cocking spot of trigger with allen wrench)

FIG.7

**LOADING PELLETS**

1. Lift the magazine release lever and the magazine can be revolved freely.

(Carefully lower release lever after loading magazine. Do not allow the lever to slam down)

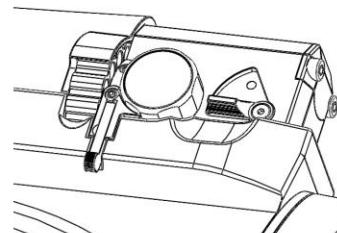


FIG.8

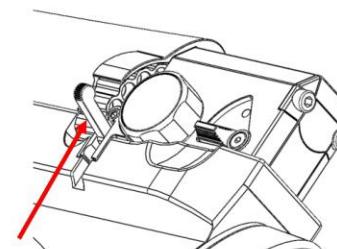
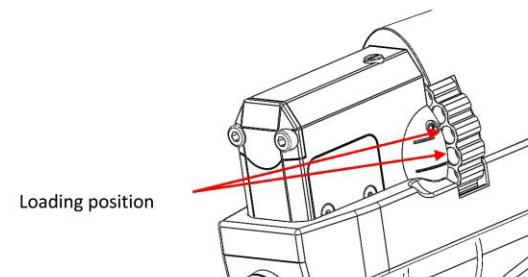


FIG.9

2. Load pellets



Loading position

FIG.10

- ❖ With your rifle pointed down to the ground or downrange in a horizontal orientation, load your pellets and ensure they are set under the surface of the magazine. Rotate the magazine one full rotation after loading pellets to verify a smooth and unobstructed rotation. This process ensures the magazine will rotate when firing.
- ❖ During loading the magazine, undersized pellets might cause the pellet "falls" partly into the barrel, especially when the rifle is pointed down. If this happens (usually after loading 16 pellets), stop loading and start shooting.
- ❖ Use soft pellets only.

## 4. FIRING/SHOOTING

- ❖ Always point your air rifle at a SAFE DIRECTION.
- ❖ You and others with you should always wear shooting glasses to protect your eyes.
- ❖ Do not shoot at hard surfaces or at the surface of water. The pellet may bounce off or ricochet and hit someone or something you had not intended to hit.
- ❖ Always choose your target carefully. It is best to shoot at paper bull's-eye targets which are attached to a safe backstop. A heavy blanket should be hung behind the backstop to prevent ricochet should you miss the backstop.
- ❖ Your air rifle is suitable for both indoor and outdoor use. Please aim your target carefully. THINK about what you will hit if you miss the target.

## TROUBLESHOOTING

### 1、PELLET STUCK:

Performance: unusual leakage (dumping all air out the barrel), cocking reset failure, magazine won't rotate and the safety can't be moved to the "SAFE" position. In general, it is because that the magazine get stuck by something, or the oversized and deformed pellets fill the air path and make it stuck (the pellet is not aligned with the barrel, so the pellets get deformed under the pressure. The deformed pellets stuck the barrel in return).

Solution 1#:

- ❖ Adjust the working pressure to zero.
- ❖ Put the cleaning rod into the barrel and strike it slightly when the rod encounters resistance. Strike the pellets back to the magazine till the magazine can rotate or the magazine can return back to its original position at last when turn it right and left. (Do not use too much force, otherwise the stuck pellet will damage the magazine sealing ring and stuck the magazine).

Solution 2#:

- ❖ Adjust the working pressure to 10 – 12MPa.
- ❖ Turn the magazine in counter-rotation slightly, till the stuck pellet is aligned with the barrel (judged by observing the visible parts of the magazine both side of the receiver are symmetric).
- ❖ Shoot the air rifle, the stuck pellet will be out as normal shooting.  
 (Never point the air rifle at anything you don't wish to kill or destroy)

### 2、UNMATCH BETWEEN DYNAMIC POWER AND WORKING PRESSURE :

Performance: unusual leakage (dumping all air out the barrel), sometimes cocking failure and the safety lever can't be moved to the "SAFE" position.

Solution:

When the cylinder tube pressure is enough,

- ❖ If you can cock and put on safety (normally if you can put on safety, then you can cock as well), turn up the working pressure or lower down the dynamic power.
- ❖ If you cannot put on safety, lower down the working pressure till you can move the safety lever fully. Then repeat above process.

### 3、UNUSUAL FIRING :

Performance: the pellet fails to come out from the magazine chamber after firing. It is because of the low dynamic power in general. Turn up the dynamic power and try shooting again.

### 4、ACCURACY LOWERED

In general, it is caused by changing another kind of pellet or lead contamination at the muzzle. It can be solved by using a high accurate pellet or cleaning the barrel.

### 5、OTHERS:

Please consult local dealer or contact Huben.

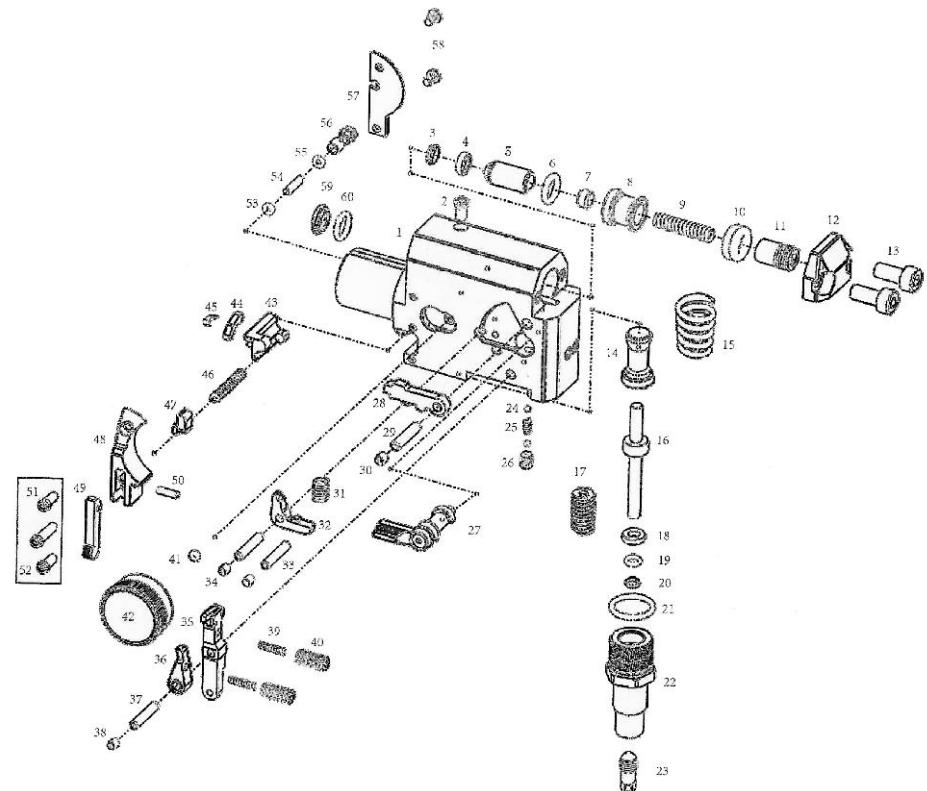
## SAFETY MEASURES & WARNINGS

- ❖ This air rifle will shoot if cocked, loaded, safety disengaged and trigger pulled.
- ❖ Air rifles are not toys. Never let young children use an air rifle unsupervised. Adult supervision is strictly required during use. Misuse or careless use may cause serious injury or death.
- ❖ Learn how your air rifle operates and safe air rifle handling procedures before loading and using it.
- ❖ **ALWAYS USE EYE & HEARING PROTECTION AND MAKE BYSTANDERS USE THE SAME.** Failure to do so may result in eye injuries and permanent hearing loss.
- ❖ Do not point at anything you do not intend to shoot even though the air rifle is unloaded.

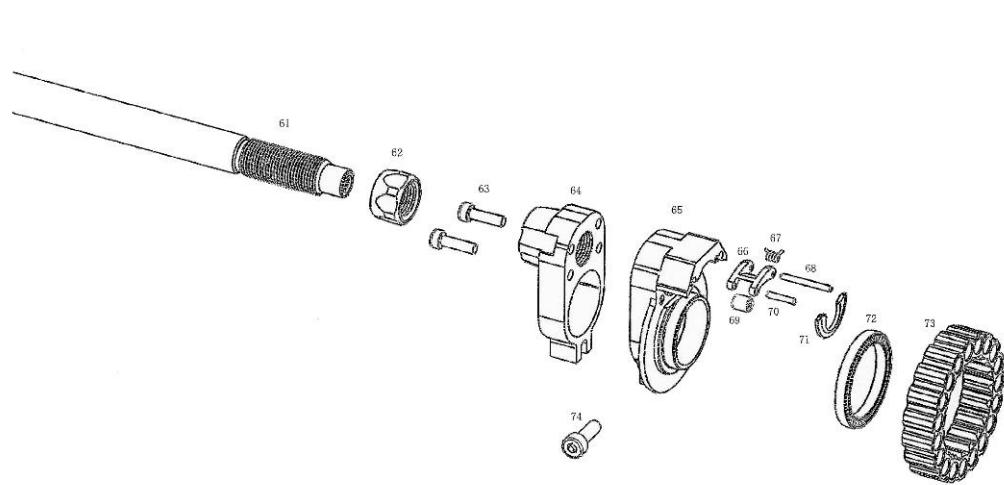
Always keep the air gun pointed in a safe direction.

- ❖ Never pull an air rifle toward you by the muzzle.
- ❖ Always aim at a safe target, taking care that it does not conceal any other object.
- ❖ Before you shoot, consider where the pellet will travel should you miss your intended target, thus ensuring no damage or harm could result. Be sure of your target before you pull the trigger. Never shoot at sounds.
- ❖ When shooting, always have a safe shooting range, that is; have a safe area for shooting, a safe distance between you and the target, and a safe backstop to trap the pellets and hold the target.
- ❖ Do not shoot at a target, which allows ricochets or deflections. Do not shoot into or at water.
- ❖ Do not shoot at or near power lines or insulators. Be especially careful in wooded areas where power lines may not be as visible.
- ❖ Do not load the air rifle until you are ready to shoot.
- ❖ Always keep your fingers away from the trigger & muzzle during cocking and handling.
- ❖ Do not run or jump when carrying a loaded or cocked air rifle. A loaded or a cocked air rifle should never be carried inside a vehicle, house, camp or public place. Never climb a tree or fence or jump a ditch with a loaded air rifle. In such a case, first unload it and hand the air rifle to a friend or place it on the ground on the other side of the obstacle before crossing yourself.
- ❖ When transporting the air rifle, keep it unloaded and "ON SAFE".
- ❖ Always keep the air rifle "ON SAFE" until you are ready to shoot even if the air rifle is unloaded.
- ❖ Do not put the air rifle away loaded and unattended.
- ❖ Always check to see if the air rifle is "ON SAFE" and unloaded when getting it from another person or from storage.
- ❖ Always keep the air rifle and/or pellets out of the reach of children. Keep the air rifle and pellets in separate places, better if under lock and key.
- ❖ Do not attempt to disassemble or tamper with your air rifle. Use a competent gunsmith. Many air rifles contain powerful springs or high pressure air cylinders which can cause serious injury if released in an uncontrolled manner.
- ❖ Always handle and treat your air rifle as though it were loaded.
- ❖ Improper use or handling of air rifles is not the responsibility of the manufacturer or distributor, under any circumstances. The user is responsible for any harm, which may be caused.
- ❖ Think first, shoot second. Don't rely on any mechanical safety. Half safe is not safe.
- ❖ Be safe, not sorry. Respect other's property.
- ❖ Air rifles should never be used under the influences of alcohol or drugs.

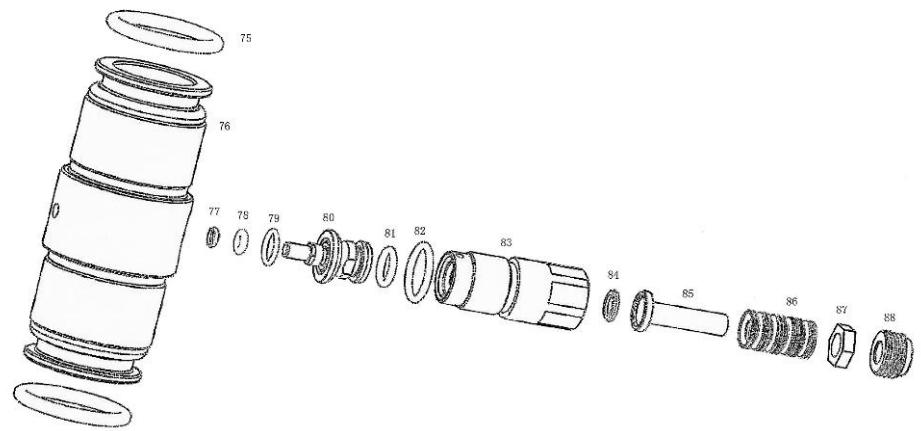
### Exploded Drawing 1.



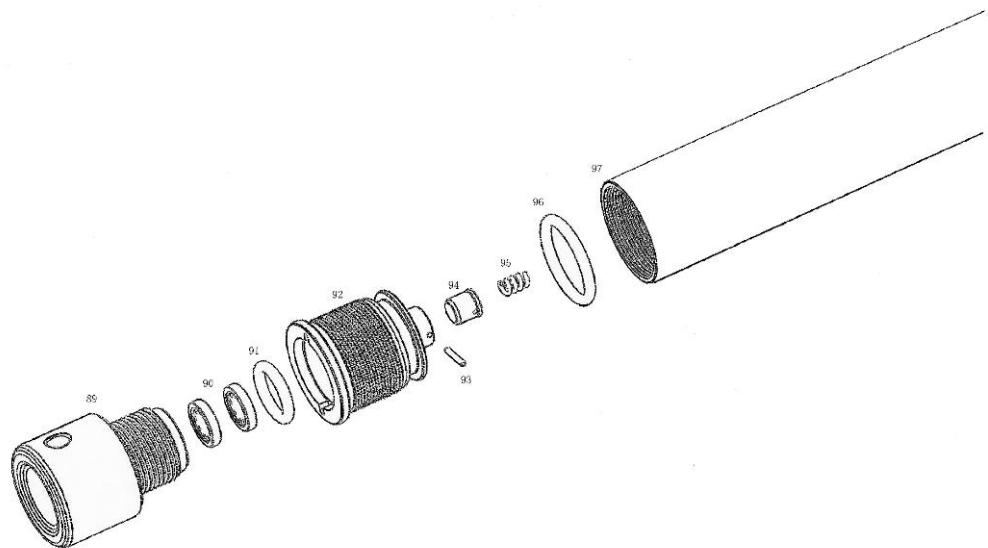
Exploded Drawing 2.



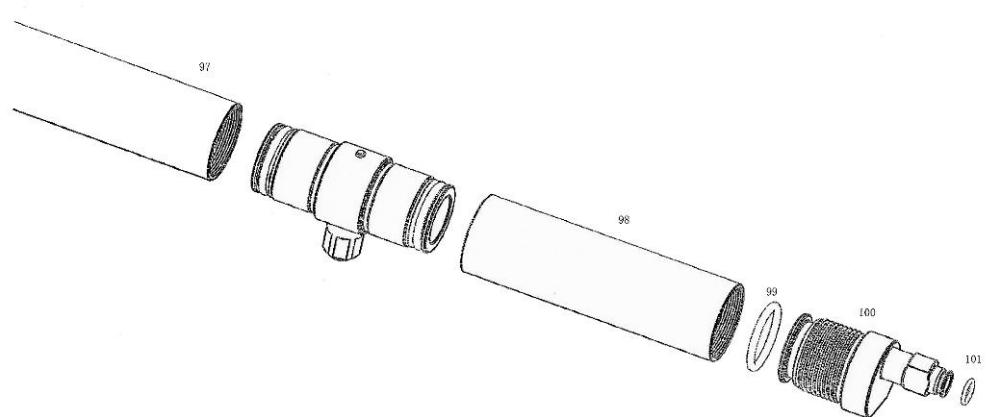
Exploded Drawing 3.



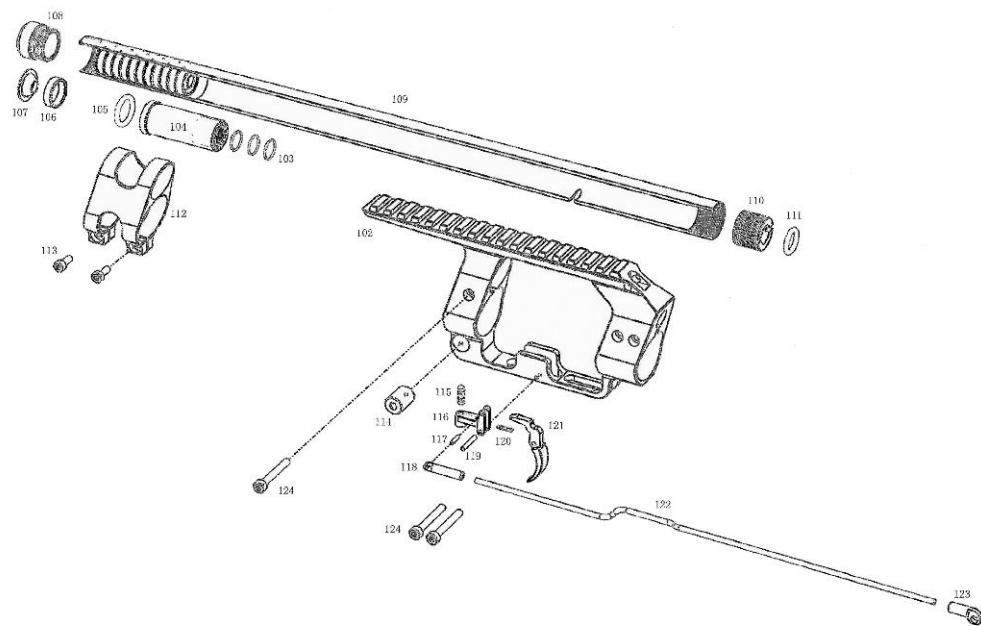
Exploded Drawing 4.



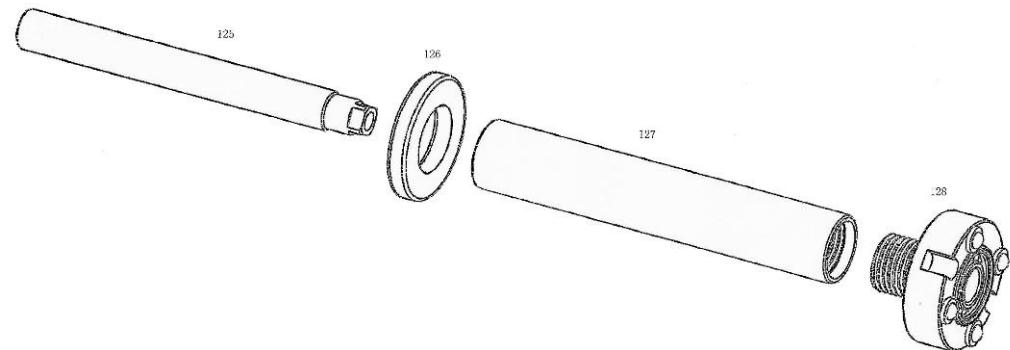
Exploded Drawing 5.



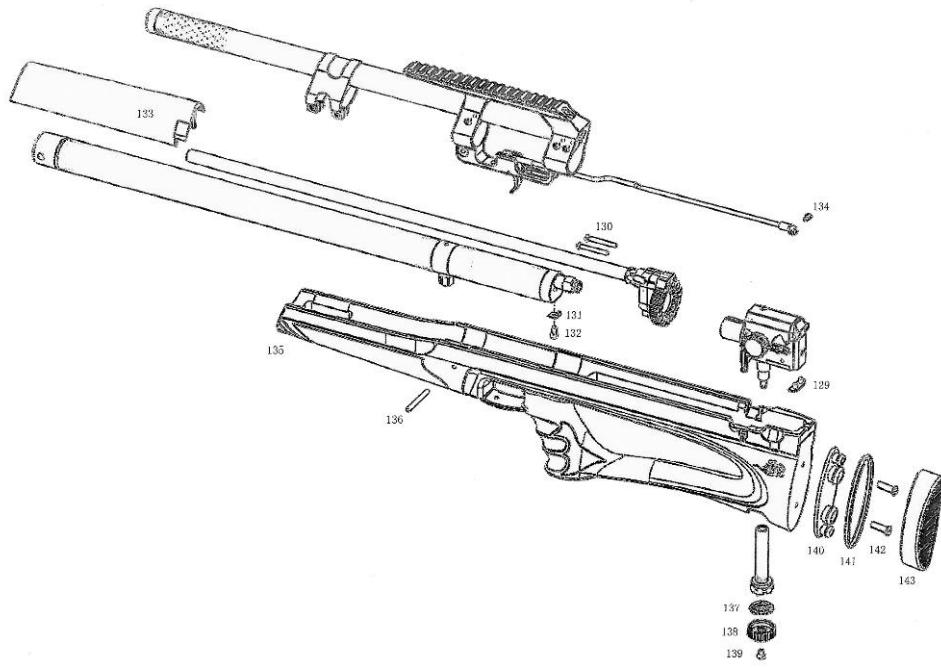
Exploded Drawing 6.



Exploded Drawing 7.



Exploded Drawing 8.



Item	Photo	Specification
1		Receiver Housing
2		Screw on Top of Receiver M3.5X8
3		Metal Seal of Opening Valve
4		Plastic Seal of Opening Valve
5		Opening Valve
6		Open Firing Valve O-Ring 11.6x1.8.NBR90+Molybdenumdisulfide
7		Striker Plastic Cap Cover
8		Striker
9		Striker Spring 7x31x1
10		Striker Spring O-Ring 13x3 NBR90
11		Striker Spring Base
12		Receiver Back Cover Plate
13		Receiver Back Cover Plate Allen Screw M5x14
14		Plastic Close Valve

Item	Photo	Specification
15		Close Valve Spring
16		Close Valve Spring Stem
17		Close Valve Dynamic Wheel Adjust Spring
18		Close Valve Brass Housing Internal to Stem Seal
19		Close Valve Brass Housing Internal Seal Top
20		Close Valve Brass Housing Internal Seal Btm 6.4x1.2NBR90+Molybdenumdisulfide
21		Brass Housing O-Ring 17x1.5 NBR90
22		Close Valve Brass Housing
23		Close Valve Dynamic Pressure Adjust Threaded Screw Top
24		Safety Lever Detent Ball
25		Safety Lever Detent Ball Spring 3x5.5x0.6
26		Safety Lever Adjust Tension Allen Set Screw M4x6
27		Safety Lever
28		Striker Sear

Item	Photo	Specification
29		Receiver Striker Sear Catch Pin Ø3.5x16
30		Black Plastic Receiver Pin Cover 3.5x5.6
31		Sear Spring 5.3x13x0.5
32		Sear Catch
33		Receiver Trigger Arm Pin Ø3x16
34		Black Plastic Receiver Pin Cover 3x4.6
35		Trigger Arm
36		Sear Catch Arm
37		Sear Catch Arm Pin Ø3x19
38		Black Plastic Receiver Pin Cover 3x5.6
39		Trigger Tension Fine Adjust Spring 2.5x11x0.5
40		Trigger Tension Fine Adjust Spring Base M5x10
41		Receiver Pressure Gage O-Ring 4x1.5 NBR90
42		Receiver Pressure Gage

Item	Photo	Specification
43		Plastic Housing for Magazine Indexing Arm
44		Magazine Indexing Arm
45		Magazine Indexing Spring
46		Magazine Release Arm Tension Spring 2.9x30x0.6
47		Magazine Release Pusher
48		Metal Surround to Gauge and Magazine Release Arm Housing
49		Magazine Release Arm
50		Magazine Release Arm Pin ø2x8
51		Magazine Release Assembly Allen Screw (short) M3x6
52		Magazine Release Assembly Allen Screw (long) M3x12
53		Air Mag Index Assist Pin O-Ring 4.5x1.2NBR90+Molybdenumdisulfide
54		Air Mag Index Assist Pin ø2.5x11
55		Brass Insert Screw O-Ring 4.5x1 NBR80
56		Brass Insert Screw for Air Assist Magazine

Item	Photo	Specification
57		Magazine Plastic Side Cover (opposite gauge side)
58		Magazine Plastic Side Cover Allen Screw M3x6
59		Plastic Breech to Magazine Seal
60		Breech Seal O-Ring 11.5x1.5 NBR90
61		Barrel (specify .22 or .25 caliber)
62		Barrel Retain Nut M12x1.25
63		Barrel Housing Base to Magazine Base Allen Screw M3x14
64		Barrel Housing Base
65		Magazine Base
66		Magazine Stop Guide
67		Magazine Stop Guide Spring
68		Magazine Stop Guide Spring Pin ø1.5x18
69		Magazine Stop
70		Magazine Stop Retaining Pin ø1.5x10

Item	Photo	Specification
71		Magazine Front Cover
72		Bearing of Magazine
73		Magazine (specify -- .22 is 19 shots/.25 is 17 shots)
74		Barrel Housing Allen Screw M4x12
75		Cylinder Tube O-Ring 29x3 NBR90
76		Regulator Cylinder Tube Housing
77		Regulator Top Stem Top Seal to Housing
78		Regulator Top Stem O-Ring 6x1.5 NBR90
79		Regulator Top Seat O-Ring 9x1 NBR90
80		Regulator Seat and Stem Assembly
81		Regulator Bottom Seat and Stem O-Ring 10x1.5 NBR90
82		Regulator Metal Housing O-Ring 15x1.5 NBR75
83		Regulator Metal Housing
84		Regulator Plastic Seal of Bottom Stem

Item	Photo	Specification
85		Regulator Bottom Stem and Washer Guide
86		Regulator Belleville Washer
87		Regulator Nut Base of Belleville Washer Stack
88		Regulator Adjustment Allen Set Screw
89		High Pressure Tube Threaded Probe Insert Fill Cap
90		High Pressure End Cap Plastic Filler Disc
91		High Pressure End Cap Internal O-Ring 20x3 NBR80
92		High Pressure Tube Threaded End Cap w Fill Stop
93		Fill Stop Retain Pin ø1.5x14
94		High Pressure Fill Stop
95		High Pressure Fill Stop Spring 4x12x0.5
96		Cylinder Tube O-Ring 29x3 NBR90
97		High Pressure Titanium Tube
98		Regulated Pressure Tube

Item	Photo	Specification
99		Cylinder Tube O-Ring 29x3 NBR90
100		Regulated Pressure Tube Housing with Connector
101		Regulated Pressure Housing Connector O-Ring 11.5x1.5 NBR90
102		Tube and Barrel Frame with Picatinny Rail
103		Barrel to Shroud Plastic Bushing O-Ring (back) 14x1 NBR70
104		Barrel to Shroud Plastic Bushing
105		Barrel to Shroud Plastic Bushing O-Ring (front) 22x3 NBR70
106		Shroud Baffle Spacer
107		Shroud Baffle
108		Shroud End Muzzle Cap
109		Barrel Shroud
110		Barrel Shroud Plastic Threaded Bushing
111		Barrel Shroud Plastic Threaded Bushing O-Ring 18x3 NBR70
112		Barrel Band

Item	Photo	Specification
113		Barrel Band Allen Screw M4x10
114		Stock Retain Pin Rubber Bushing
115		Trigger Adjust Allen Set Screw M4x12
116		Trigger/Trigger Arm Housing
117		Trigger Arm Housing Pin (short) Ø2x8
118		Trigger Arm Adjuster (front)
119		Trigger Arm Housing Pin (long) Ø2.5x16
120		Trigger Spring
121		Trigger
122		Trigger Arm (threaded both ends)
123		Trigger Arm Adjuster (rear)
124		Tube and Barrel Frame Allen Screw M4x28
125		Dynamic Power Adjust Stem
126		Dynamic Power Buffer for stock

Item	Photo	Specification
127		Dynamic Power Tube Housing
128		Dynamic Power Wheel with Bearing and Detent Ball Stops
129		Rubber Anti Vibration Receiver to Stock Buffer
130		Barrel Housing to Receiver Allen Screw M3x35
131		Regulated Pressure Tube Housing to Receiver Tab
132		Tab Screw M4x8
133		Stock Upper Cheek Rest
134		Trigger Arm Stepped Bolt
135		Stock
136		Stock Retaining Pin Ø4x46
137		Dynamic Power Wheel Click Insert Disk
138		Dynamic Power Wheel
139		Dynamic Power Wheel Allen Screw M4x10
140		Stock Butt Plastic to Rubber Connector Plate

Item	Photo	Specification
141		Stock Butt Plate - Metal
142		Stock Butt Plate Screw M6x20
143		Stock Rubber Butt Pad

Note: All the drawings and spare parts list are for reference only, and the actual parts kind prevail!