

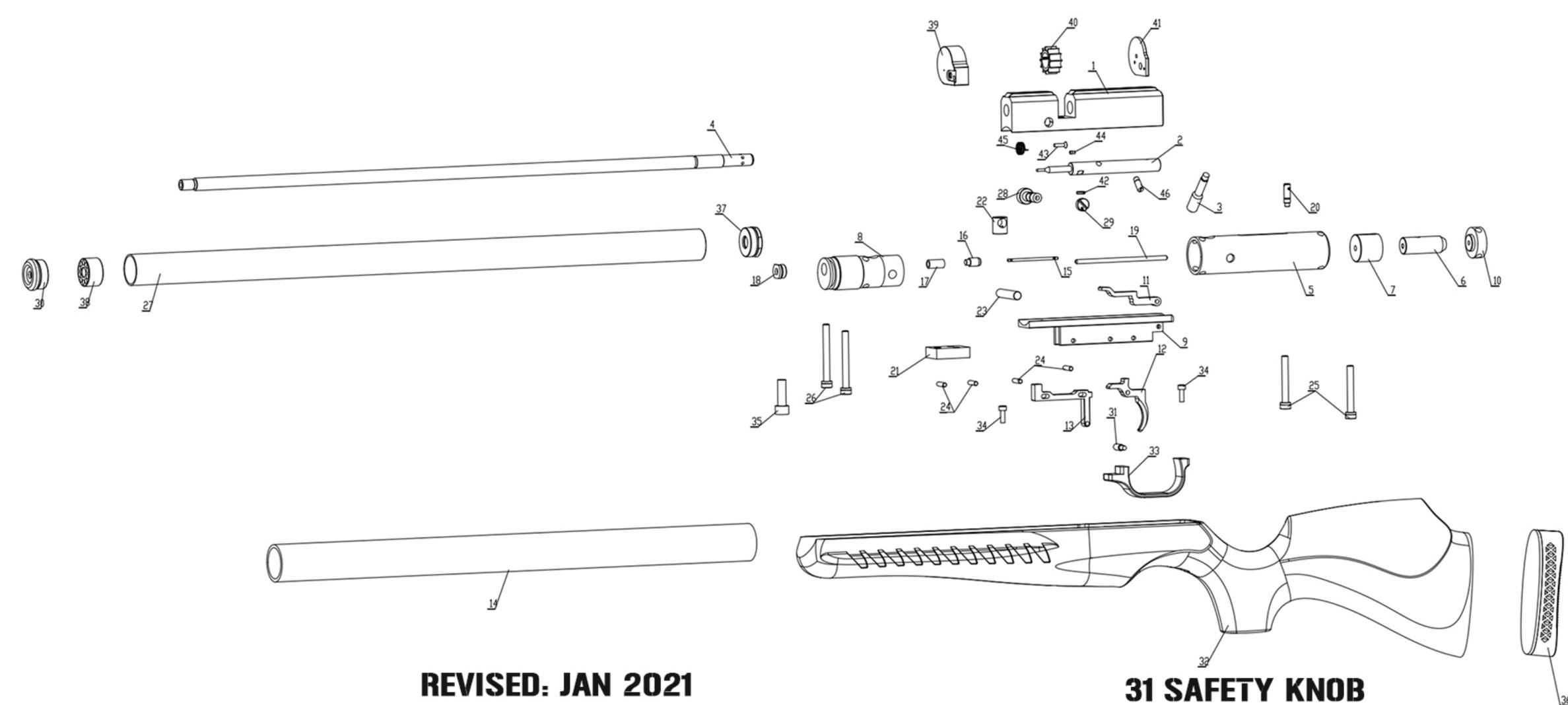
AEA CHALLENGER SERIES USER'S MANUAL



WWW.AEAAIRGUN.COM

DRAWING, PART LIST AND SPECIFICATIONS

CHALLENGER STANDARD DRAWING AND PART LIST



1 (CHA	20	2

- **2 BOLT**
- **3 BOLT LEVER**
- 4 BARREL
- **5 HAMMER HOUSING**
- **6 HAMMER SLIDE**
- 7 HAMMER
- 8 VALVE
- 9 TRIGGER FRAME
- 10 HAMMER SPRING END BLOCK
- 11 SEAR
- **12 TRIGGER**
- **13 SAFETY**
- **14 AIR TUBE**
- 15 VALVE PIN

- **16 VALVE SEALED BLOCK**
- **17 VALVE SPRING**
- **18 VALVE SPRING END CAPE**
- 19 HAMMER GUIDING PIN
 20 HAMMER AND BOLT CONNECTOR
- 21 STOCK FIXING BLOCK
- **22AIR GUIDING CYLINDER**
- **23 VALVE FIXING PIN**
- **24TRIGGER SET FIXING PIN**
- 25UPPER CHASSIS FIXING SCREW
- **26UPPER CHASSIS FIXING SCREW**
- 27 BARREL SHROUD
- **28POWER ADJUSTING KNOB**
- 29POWER ADJUSTING KNOB LOCK SCREW
- **30SHROUD END CAPE**

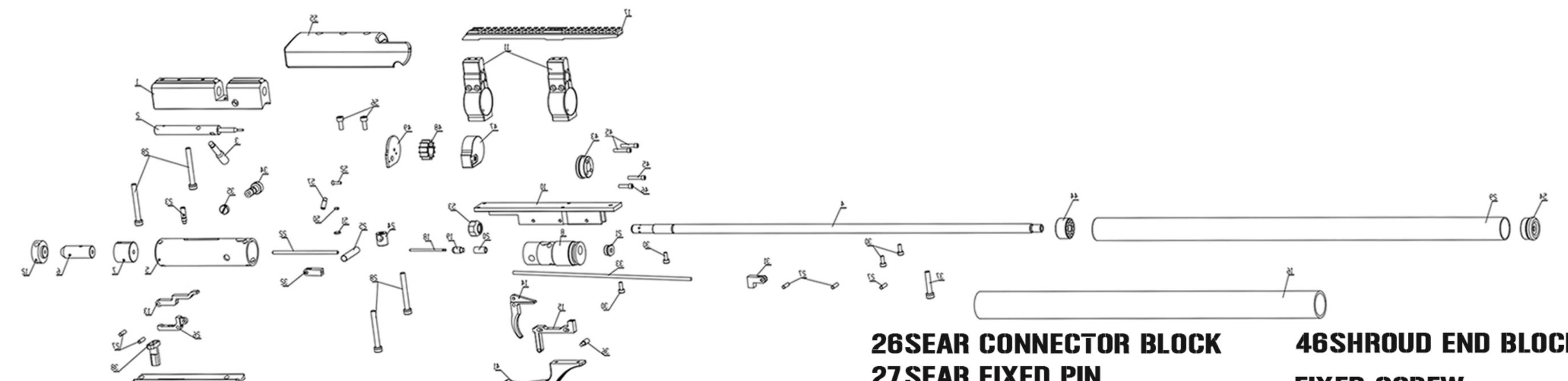
- 32STOCK
- **33TRIGGER GUARDE FRAME**
- **34TRIGGER GUARDE FRAME SUNK SCREW**
- **35 STOCK SUNK SCREW**
- **36STOCK SHOULDER PAD**
- **37 SHROUD END BLOCK**
- 38 BARREL AND SHROUD FIXED-RING
- **39MAGAZINE SHELL**
- **40MAGAZINE ROTATING GEAR**
- 41 MAGAZINE TRANSPARENT COVER
- **42MAGAZINE SUNK SCREW**
- 43MAGAZINE TRANSPARENT COVER FIXING

SCREW

- 44MAGAZINE GEAR CONNECTOR
- 45MAGAZINE SPRING
- **46BOLT CONNECTOR**

DRAWING, PART LIST AND SPECIFICATIONS

CHALLENGER BULLPUP DRAWING AND PART LIST



1 CHASSIS

2 BOLT

3 BOLT LEVER

4 BARREL

5 HAMMER HOUSING

6 HAMMER SLIDE

7 HAMMER

8 SEAR

9 SEAR FRAME

10 TRIGGER FRAME

11 SHROUD AND BARREL FIXED RING

12 HAMMER SPRING END BLOCK

13 SEAR

14 TRIGGER

15 SAFETY

16 AIR TUBE

17 PICATINNY RAIL

REVISED: JAN 2021

18 VALVE PIN

19 VALVE SEALED BLOCK

20 VALVE SPRING

21 VALVE SPRING END BLOCK

22HAMMER GUIDE PIN

23 HAMMER AND BOLT CONNECTOR

24AIR GUIDING CYLINDER

25VALVE FIXED PIN

26SEAR CONNECTOR BLOCK

27 SEAR FIXED PIN

28UPPER CHASSIS SUNK SCREW

29BARREL SHROUD

30SUNK SCREW

27 SEAR FIXED PIN 28UPPER CHASSIS SUNK

SCREW

29BARREL SHROUD

30SUNK SCREW

31 TRIGGER CONNECTOR

32TRIGGER CONNECTOR FIXED

BLOCK

33 TRIGGER CONNECTOR ROD 34 POWER ADJUSTING KNOB 35 POWER ADJUSTING LOCK

SCREW

36SAFETY KNOB

37 STOCK FIXED SUNK SCREW

38 STOCK FIXED BLOCK

39STOCK FIXED SUNK SCREW

40STOCK

41 TRIGGER GUARDE FRAME

42STOCK SHOULDER PAD

43SHROUD END BLOCK

44SHROUD FIXED RING

46SHROUD END BLOCK

FIXED SCREW

47 MAGAZINE SHELL

48MAGAZINE ROTATING

GEAR

49MAGAZINE TRANSPARENT

COVER

50MAGAZINE SUNK SCREW

51 MAGAZINE SUNK SCREW

52MAGAZINE TRANSPARENT

COVER FIXING SCREW

54SHROUD END CAPE

53 BARREL FIXED RING

55 CHEEK PAD

56CHEEK PAD FIXED SCREW

57 BOLT CONNECTOR

SPECIFICATIONS

CHALLENGER STANDARD



	.22 Cal
Calibon	.25 Cal
Caliber	.30 Cal
	.35 cal
Weight	6.9 LBS
Barrel Length	24 Inches
Overall Length	45 Inches
In	ntegral Shroud
Cocking System	Side Bolt Lever
	.22 Cal 12 shots
M	.25 Cal 10 shots
Magazine Capacity	.30 Cal 9 shots
	.35 cal 8
Air Tube Capacity	300 CC
Max Safe Air Filling Pressure	3600 PSI
	.22 Cal 1400FPS 14.3 GR / .22 Cal 1200FPS
	18.13 GR
	.22 Cal 1050FPS 25 GR / .22 Cal 950 FPS 33.5
	GR
Muzzla Valogity	.25 Cal 1100FPS 25 GR / .25 Cal 1000FPS 33.5
Muzzle Velocity	GR
	.30 Cal 1050FPS 45 GR / .30 Cal 950 FPS 50
	GR
	.35 cal 950 fps (from 250bar)
	1000fps(300bar)/79 GR
	.22 Cal 70 ft/lbs (90 Joules)
Margle Energy	.25 Cal 80 ft/lbs (105 Joules)
Muzzle Energy	.30 Cal 100 ft/lbs (135 Joules)
	.35 cal 160fpe(220J)/175fpe(235J)
Power Adjustment	Available
Optics	11 mm Dovetail Scope Mount
Photographs, drawings, description	ns, and other information are purely indicative.

Photographs, drawings, descriptions, and other information are purely indicative.

AEA Precision Airguns Inc reserves the right to change, modify, or discontinue products or features at any time.

CHALLENGER BULLPUP



	.22 Cal
Caliban	.25 Cal
Caliber	.30 Cal
	.35 cal
Weight	7.5 LBS
Barrel Length	24 Inches
Overall Length	35 Inches
Int	tegral Shroud
Cocking System	Side Bolt Lever
	.22 Cal 12 shots
Magazina Canacity	.25 Cal 10 shots
Magazine Capacity	.30 Cal 9 shots
	.35 cal 8
Air Tube Capacity	300 CC
Max Safe Air Filling Pressure	3600 PSI
	.22 Cal 1400FPS 14.3 GR / .22 Cal 1200FPS
	18.13 GR
	.22 Cal 1050FPS 25 GR / .22 Cal 950 FPS 33.5
	GR
Muzzle Velocity	.25 Cal 1100FPS 25 GR / .25 Cal 1000FPS 33.5
Widzzie velocity	GR
	.30 Cal 1050FPS 45 GR / .30 Cal 950 FPS 50
	GR
	.35 cal 950 fps (from 250bar)
	1000fps(300bar)/79 GR
	.22 Cal 70 ft/lbs (90 Joules)
Muzzle Energy	.25 Cal 80 ft/lbs (105 Joules)
Widzzie Energy	.30 Cal 100 ft/lbs (135 Joules)
	.35 cal 160fpe(220J)/175fpe(235J)
Power Adjustment	Available
Optics	Pica-tinny Rail Scope Mount
Photographs, drawings, description	s, and other information are purely indicative.

Photographs, drawings, descriptions, and other information are purely indicative.

AEA Precision Airguns Inc reserves the right to change, modify, or discontinue products or features at any time.

SPECIFICATIONS

CHALLENGER STANDARD BIGBORE







Caliban	.35 Cal
Caliber	.50 Cal
Weight	.35 Cal 7.4 LBS
	.50 Cal 7.9 LBS
Barrel Lenghth	24 Inches
Overall Lenghth	48 Inches
Intergral Shroud	
Cocking System	.35 Cal Side Bolt Lever/ .50 Cal Side lever Action
	.35 Cal 10 shots
Magazine Capacity	.50 Cal 6 shots
Air Tube Capacity	500 CC
Max Safe Air Filling Pressure	3600 PSI
Muzzle Velocity	.35 Cal 1050 FPS 82 GR
Widzzie velocity	.50 Cal 900 FPS 225 GR
Muzzla Enger	.35 Cal 200 ft/lbs (265 Joules)
Muzzle Energy	.50 Cal 400 ft/lbs (550 Joules)
Optics	11 mm Dovetail Scope Mount

AEA Precision Airguns Inc reserves the right to change, modify, or discontinue products or features at any time.

Caliban	.35 Cal
Caliber	.50 Cal
Weight	.35 Cal 8.1 LBS
	.50 Cal 8.6 LBS
Barrel Lenghth	24 Inches
Overall Lenghth	38 Inches
Intergral Shroud	
Cocking System	.35 Cal Side Bolt Lever/ .50 Cal Side lever Action
	.35 Cal 10 shots
Magazine Capacity	.35 Cal 10 shots .50 Cal 6 shots
Air Tube Capacity	500 CC
Max Safe Air Filling Pressure	3600 PSI
	25 Cal 1050 EDC 92 CD
Muzzle Velocity	.35 Cal 1050 FPS 82 GR
	.50 Cal 900 FPS 225 GR
Muzzle Energy	.35 Cal 200 ft/lbs (265 Joules)
	.50 Cal 400 ft/lbs (550 Joules)
Optics	Pica-tinny Rail Scope Mount

Photographs, drawings, descriptions, and other information are purely indicative.

AEA Precision Airguns Inc reserves the right to change, modify, or discontinue products or features at any time.

READ ALL INSTRUCTIONS AND WARNINGS BEFORE USING AND AIR FILLING THESE AIRGUNS.

POINTED IN A SAFE DIRECTION ALL THE TIME AND MAKE SURE THE AIR RIFLE IS UNLOADED



READ ALL INSTRUCTIONS AND WARNINGS BEFORE USING AEA PRODUCTS

This air rifle is not a toy and carelessness use may result in serious injury or accidental death.

This airgun is recommended for adult use or under adult supervision.

Never attempt to disassemble this rifle without manufacturer authority.

Never fire the rifle when it is out of air or when air cylinder is removed!

Use lead pellets only, The use of any projectile other than a lead pellet is unauthorized and will void the manufacturers warranty.

AEA Airguns are designed for Use with dry-filtered, compressed air to fill the air cylinder.

NEVER use other gases such as oxygen, acetylene, hydrogen, etc.

Never fill this air rifle air cylinder above 250 BAR /3600 PSI (working pressure) unless stated for the specific model.

The resulting damage caused by overcharging the air cylinder is not covered by the manufacturers warranty.

Always wear eye and ear protection when using an airgun.

Always point the air rifle in a safe direction and be aware of the backstop.

Never point an air rifle at anything you do not intend to shoot.

Always make sure that each pellet you use is in the proper caliber for the air gun and never re-use pellets.

Never leave the air gun loaded if it is not going to be used.

Keep your fingers away from the trigger and do not load the rifle until you are ready to fire.

Anytime you transport an airgun, make sure the safety is on and the gun is unloaded.

Store the airgun (unloaded) and ammunition in separate, safe places, out of reach of children.

Users should follow all local laws regarding air gun ownership and use...

We recommended that you have the air cylinder visually inspected every 3 years.

WOODEN STOCK ASSEMBLE

Take out the wooden stock and screws, Insert the action into the wood stock then install the provided screws. Notice: Due to the soft wood material, DO NOT OVER TIGHTEN THE SCREW. It will result in safety or cocking issues.



AIR FILLING

1.Pull out the end cape on the air cylinder.

2.Insert 7mm air fill probe into your air filling devices (such as high pressure air compressor,

scuba air tanks, hand pump or recharging station) hose connector.

Notice: Before filling, secure that devices hose and the fill probe connecting tightly.

3.Insert the 7mm fill probe into the cylinder's air filling hole.

4.Close the bleed screw on your recharging devices, open the recharging devices valve very slowly. When recharging you must watch the gauge carefully. Never exceed 250 bar / 3600 psi (unless the model allows it). When the air fill is complete, close the recharging devices valves. To disconnect the cylinder from the air filling devices, open the bleed screw. This allows high pressure airs inside the refill clamp to exhaust, making it possible to pull out the 7mm fill prob from air filling hole.

5.After finish air filling put on the end cape prevent dusts from entering the air filling hole.

Warning: AEA Airguns are designed for Use with dry-filtered, compressed air only. Never use other gases such as oxygen, acetylene, hydrogen, etc. Never fill the air cylinder above 250 BAR /3600 psi unless model specified. The resulting damage caused by overcharging the air cylinder or air tank is not covered by the manufacturer's warranty.





LOADING PELLETS & MAGAZINE

Spring Tension Magazine Removal
Pull the cocking lever and cocking keep the
bolt lever on the rear position.
Remove the magazine from the slot then hold
the bolt lever and pull the trigger while holding
the cocking lever in order to de cock the
hammer.











Load pellets by pushing the transparent cover counter clockwise until the cover stops. Keep the cover open in the end position.

Put one pellet in the open slot from the opposite end of the magazine, the head of the pellet shall be pointing out of the hole.

The back of the pellet should now be seen through the transparent cover.

This pellet will lock magazine spring.

Now turn the magazine so that the transparent cover is facing you. Turn the cover clockwise one slot at the time and fill in remaining pellets from the transpar-

ent cover. Lock the transparent cover at starting position.



Lead pellets shoot only. The use of any projectile other than a lead pellet is unauthorized and will void the manufacturer's warranty.

Always make sure that each pellet you use is the proper caliber for the airgun and never re-use pellets.

Rotate the magazine's cover in counter clockwise direction. Don't rotate in the wrong direction or you will damage the magazine's spring tension. User abuse will void manufacturer's warranty automatically.





LOADING THE MAGAZINE

Pull the cocking lever to its rear position.
Insert the full loaded magazine into the slot.
POINTED IN A SAFE DIRECTION ALL THE TIME AND MAKE SURE

THE AIR RIFLE IS UNLOADED

Pointed in a safe direction all the time

<u>warning</u>

IF YOU WERE NOT INTEND TO SHOOT HOLD THE BOLT LEVER AND PULL THE TRIGGER SLOWLY IN ORDER TO DE COCK THE HAMMER.

POINTED IN A SAFE DIRECTION ALL THE TIME AND MAKE SURE THE AIR RIFLE IS UNLOADED

COCKING, DISCHARGING, LOADING AND FIRING

Before loading the airgun secure the safety is in the On Safe position and the muzzle is pointed in a safe direction all the time.

Manually move the safety to the on safe position by switching safety lever back toward trigger.

To cock the air rifle, pull the bolt lever until the bolt is held in the cocked position. After cocking, push the cocking lever forward in order to push the pellets into the chamber, then rotate the bolt lever into lock position.

To fire, take your target, aim, switch the safety to the fire position and squeeze the trigger until the air rifle discharges. To de cock the hammer, pull and hold bolt lever, remove the magazine from the slot, squeeze the trigger slowly to decock the hammer spring while holding the cocking handle.

WARNING: Do not move the safety to the Fire position unless the air gun is pointed in a safe direction. Practice safe and responsible gun handling practices. After de cocking the hammer, always to dry fire the air rifle in a safe direction to ensure the breech is clear.















POWER ADJUSTMENT

Power can be adjusted with the power adjusting wheel. Find you an allen key matching the lock screw and unscrew the power adjustment wheel. (hold one side lock nut tightly and rotate another side adjustment wheel) Max power is at 12 o clock position, turning the knob either to the left or right will lower the power with 9 o clock and 3 o clock positions being fully closed (min power) Notice: After adjusting, lock the power adjustment lock nuts, do not over tighten.

WARNING

After discharge the hammer, there is

chamber probably.
Do not move the safety to the On
Fire position unless the air gun is
pointed in a safe direction. Safe
means that if the gun discharged it
would not cause injury or property
damage. Mechanical safeties are not
infallible and do not replace the need
for responsible gun handling practic-

OPERATIONAL NOTICES

Modification, Removing or disassembling the safety mechanism Modification, disassembling or removing any of the safety parts can disable the rifle and will void the warranty and will create a hazardous condition.

MODIFICATIONS TO THE VALVE

The valve in the air rifle is not a user-maintainable item. Any attempt to remove or modify the valve in any way will void the warranty and may create a hazardous condition. Filling the air tank with a gas other than dry compressed air is not recommended and will void the warranty.

CLEANING THE BARREL

An airgun barrel needs standard maintenance. If you do clean the barrel, use a good quality bore brush of the correct size, and use a non-jointed cleaning rod if possible. Do not use cleaning solvents and agents formulated for firearms because they can damage the seals and O-rings, use silicon cleaning lubricants and cleaning products.

WARNING

This rifle should only be disassembled by factory-authorized technician and a factory-authorized repair station, or you will void manufacturer warranty automatically including any modification or tuning as well.

MAINTENANCE OF THE AIR CYLINDER

AEA Airguns' air cylinder is made of 7075 aluminium alloy. The air cylinders are designed for Use with dry-filtered, compressed air to fill the air cylinder. Never use other gases such as oxygen, acetylene, hydrogen, etc. Never fill the air cylinder above 300 BAR /4350psi. The resulting damage caused by overcharging the air cylinder is not covered by the manufacturer's warranty.

SHOOTING SAFETY

Never point the muzzle of the rifle at anything you do not intend to shoot. Practice gun safety and responsible gun ownership. Always wear safety glasses when shooting or operating an air rifle, safety first! Avoid shooting targets that will make the pellet ricochet.

Warranty Information
All AEA Airguns carry ONE YEAR Manufacturer Warranty against faulty workmanship and defective materials. The Manufacturer Warranty will start automatically after you purchased an AEA product from the dealer. Any AEA airguns covered by this warranty will be repaired or replaced at the discretion of AEA Precision Airguns Inc, should a defect in material or workmanship be found, Contact your dealer first. If the rifle is determined to have a defect within the warranty period, contact the warranty center or authorized repair facility to arrange service. The warranty guarantee does not cover any damage caused by tampering with the air rifle or abuse. Normal wear parts such as 0-rings and plastic magazines are not covered as well.

Repairs may only be made by the Manufacturer Warranty Center or authorized repair facility. This warranty becomes invalid for any gun that is disassembled or modified in any way not specifically authorized by AEA Precision Airguns Manufacturer. This warranty also becomes invalid for any gun that has been damaged by abuse or improper handling.

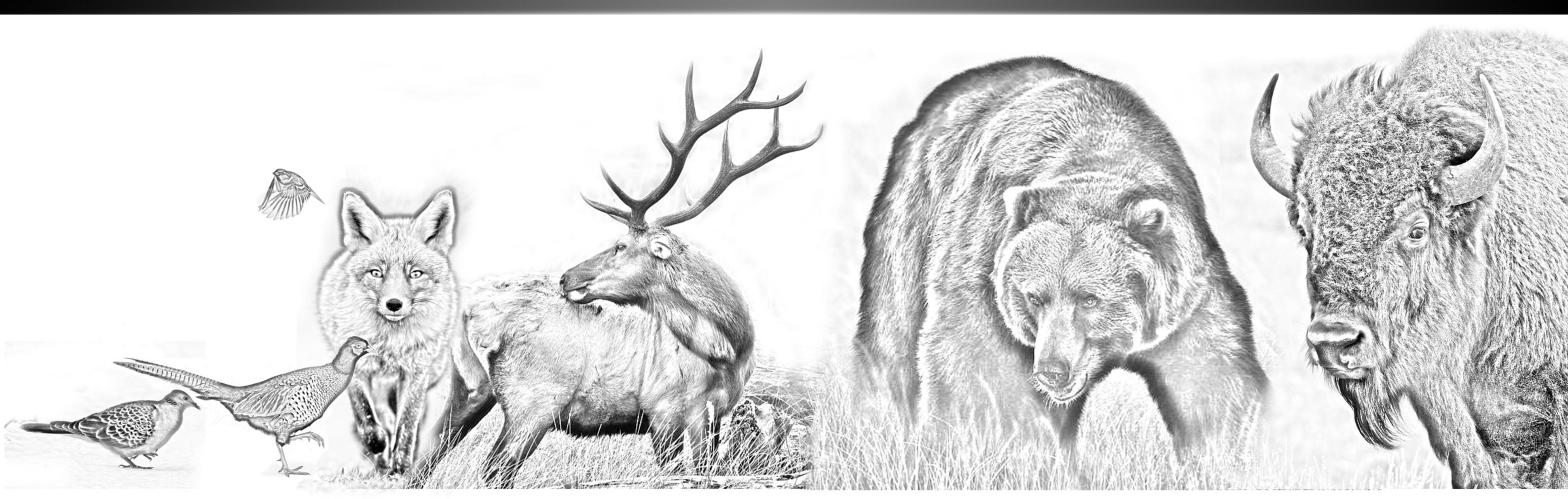
A ONE YEAR manufacturer's warranty applies in those instances for all AEA airguns.

Official Website: www.aeaairgun.com

Email: aeaairgun@gmail.com

Photographs, drawings, descriptions, and other information are purely indicative. AEA Precision Airguns reserves the right to change, modify, or discontinue products or features at any time.

Various AEA Airguns Bring You Completely Different Experiences





AEA PRECISION AIRGUNS INC.

www.aeaairgun.com aeaairgun@gmail.com