AEA

PRECISION AIRGUNS

AEA ZEUS MKII AIR RIFLE USER'S MANUAL

WWW.AEAAIRGUN.COM

CONTENTS

SAFETY WARNINGS & IMPORTANT NOTICES

Read this manual completely before operating your air rifle.
Failure to follow these instructions may cause damage, serious injury, or death.

General Safety Rules

Always treat the rifle as if it is loaded.
Never point the muzzle at anything you do not intend to shoot.
Keep your finger off the trigger until ready to fire.
Always maintain muzzle control, even if you slip or fall.
Use only in a safe, controlled environment with a confirmed backstop.
Wear ANSI-rated eye protection at all times.

Authorized Users

This PCP rifle is intended for adults only or for use under strict adult supervision.

This is not a toy.

Correct Ammunition

- Use lead slugs only of the correct caliber.
- Do not use steel, alloy, or homemade projectiles.
- Do not reuse slugs.

Using unauthorized projectiles may damage the rifle and void the warranty.

Never Fire Without Air

Do NOT fire the rifle when:

- The air cylinder is empty
- The air cylinder is removed

Dry-firing without air may cause internal damage.

No Modification

Do not modify, disassemble, tune, polish, drill, or alter any internal component.

This includes the trigger, valve, hammer, regulator, and safety system.

Unauthorized modification voids the manufacturer’ s warranty.

AIR FILLING & PRESSURE GUIDELINES

Approved Air Only

Fill the rifle with dry, filtered compressed air only.

Never use

Oxygen, Hydrogen, Acetylene, CO_2, Nitrogen, or any other gas.

Using improper gases may cause explosion, severe injury, or death.

Filling Pressure

Maximum fill pressure: 310 BAR / 4500 PSI

Recommended operating pressure: 250 BAR / 3500 PSI

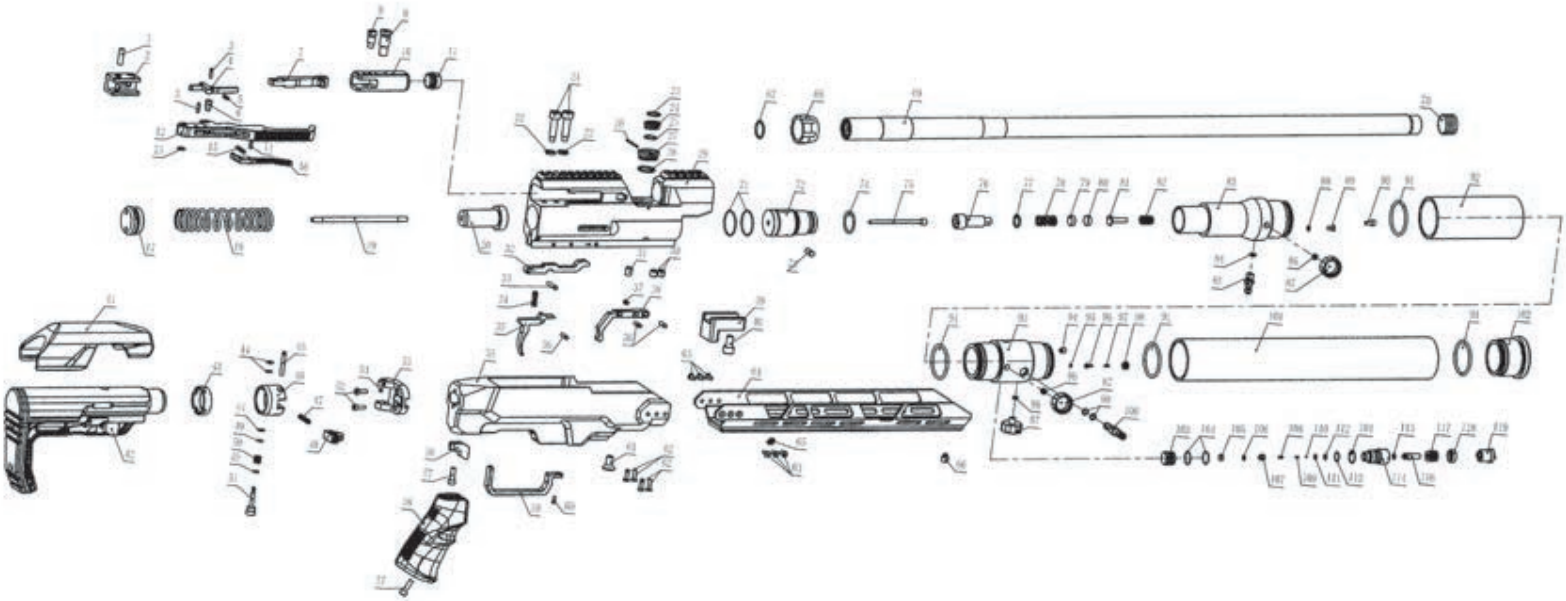
Overfilling is not covered under warranty.

Air Tank Inspection

Inspect and recertify air tanks according to the dates and intervals printed on the tank label.

Exploded Diagram

AEA ZEUS MKII DIAGRAM



AEA ZEUS MKII 58CAL PARTS LIST

DIAGRAM NO.	DISCRIPTION	DIAGRAM NO.	DISCRIPTION	DIAGRAM NO.	DISCRIPTION
1	Valve Core Spring Seat	51	Rear Receiver	101	Knurled Pin Flat-Head 3×12–SUS304
2	O-ring 20.4×1.8	52	O-ring 20.5×1.2	102	Grip Hard Core
3	O-ring 13×1.8	53	Barrel Lock Nut	103	Hex Socket Button Head Screw M5×20
4	Disc Spring A 12.5×6.2×0.7×1-C1	54	14.7mm × 29.6-inch Barrel	104	Hex Socket Cup-Point Set Screw M6×8
5	Buffer Block	55	O-ring 15.3×1.8	105	Knurled Pin Flat-Head 2.5×8–SUS304
6	Spacer Block	56	Compression Spring 2.6×26.6×155.5×16.5	106	Trigger Guard
7	Compression Spring 1.2×7.7×23.85×10.5	57	Hammer	107	Hex Socket Countersunk Screw M4×10
8	Valve Core	58	Hammer Sleeve	108	Picatinny Rail
9	O-ring 11×1.2	59	O-ring 28.2×2.4	109	Knurled Pin Flat-Head 2×7–45#
10	Sealing Block	60	O-ring 23×2.4	110	Tube Clamp
11	Valve Stem	61	Adapter	111	Hex Socket Flat-End Set Screw M5
12	Sealing Ring	62	O-ring 6.5×1.5	112	Front Receiver
13	O-ring 21×1.5	63	Plug	113	Detent Lock Nut
14	Hex Socket Flat-End Set Screw M5×12	64	Air Storage Tube	114	Detent
15	Flow Limiter Pin	65	Sear Frame	115	O-ring 27×2.4
16	O-ring 13×1.5	66	Hex Socket Countersunk Screw M4×8	116	Valve Connector
17	Hex Socket Pan Head Screw M5×30	67	Upper Rail	117	Filter Screw
18	Spacer Plate	68	Knurled Pin Flat-Head 3×14–45#	118	O-ring 2.6×1.2
19	Shoulder Pad Assembly	69	Compression Spring 0.4×2.8×10.75×11	119	Eccentric Valve Core
20	Hex Socket Cup-Point Set Screw M5×8	70	Lower Rail	120	Compression Spring 0.4×2.9×5.5×8
21	Support Plate	71	Knurled Pin Flat-Head 2.5×12–SUS304	121	Eccentric Valve Core Spring Seat
22	Seal Gasket	72	Hex Socket Cup-Point Set Screw M4×8	122	Air Storage Tube
23	Pressure Gauge	73	Connecting Rod	123	Air Storage Tube End Plug
24	Slotted Screw M1.3×1	74	Retaining Ring 2.5–4.2–0.4	124	O-ring 5.4×1.4
25	Plug	75	Compression Spring 0.6×4.4×20×13	125	Filling Probe
26	O-ring 16×1.8	76	Limit Screw	126	End Cape
27	Lock Nut	77	Y-Type Adapter	127	O-ring 14×1.2
28	Hex Socket Cap Screw M5×12	78	Knurled Pin Flat-Head 2×8–SUS304	128	Filter Brass
29	Hex Socket Cap Screw M5×14	79	Trigger	129	O-ring 4.2×1.2
30	Cheek Rest	80	Torsion Spring 0.3×3.3×2.775×8.25	130	Guide Sleeve
31	Plug	81	Knurled Round-Head Pin 2.5×22–45#	131	Return Rod
32	O-ring 14.5×1.8	82	Hex Socket Countersunk Screw M3×5	132	Ceramic Ball ZrO2 2 G5
33	Plug	83	Safety Knob	133	O-ring 5×1
34	O-ring 16×1.5	84	Compression Spring 0.3×2.4×5.6×7	134	Sealing Ring
35	O-ring 20×1.8 HNBR90	85	Steel Ball GCr15 2.5 G10	135	O-ring 10×1.2
36	Bridge Block	86	Safety	136	Piston Sleeve
37	Bridge Linkage Shaft	87	Limit Nut	137	O-ring 9×1.2
38	Nut	88	Compression Spring 0.5×4×20×11.5	138	Piston Rod
39	Threaded Adapter Sleeve	89	Sealing Block	139	Adjustment Screw
40	Hex Socket Flat-End Set Screw M8	90	Push Rod	140	Adapter
41	Slotted Flat-Head Pin	91	Seal Sleeve		
42	Side Pull Linkage Rod	92	O-ring 23.6×1.8		
43	Compression Spring 0.4×2.4×9.5×12	93	O-ring 6×1.5		
44	Cylindrical Pin 2.5m6×5	94	Rear Cylinder Connector		
45	Lock Latch	95	Valve Core		
46	Heavy-Duty Spiral Spring Pin 2.5×8	96	Screw		
47	Side Pull Handle	97	O-ring 38×3		
48	External Circlip 3	98	Air Tube End Plug		
49	Side Handle Sleeve	99	Grip Soft Shell		
50	Hex Socket Countersunk Screw M5×14	100	Philips Large Flat-Head Self-Tapping Screw ST4.2×19		

Revised Dec 2025

AEA ZEUS MKII 72CAL PARTS LIST

DIAGRAM NO.	DISCRIPTION	DIAGRAM NO.	DISCRIPTION	DIAGRAM NO.	DISCRIPTION
1	Valve Core Spring Seat	51	Rear Receiver	101	Knurled Pin Flat-Head 3×12–SUS304
2	O-ring 20.4×1.8	52	O-ring 20.5×1.2	102	Grip Hard Core
3	O-ring 13×1.8	53	Barrel Lock Nut	103	Hex Socket Button Head Screw M5×20
4	Disc Spring A 12.5×6.2×0.7×1-C1	54	18.3mm × 29.6-inch Barrel	104	Hex Socket Cup-Point Set Screw M6×8
5	Buffer Block	55	O-ring 15.5×1.8	105	Knurled Pin Flat-Head 2.5×6–SUS304
6	Spacer Block	56	Compression Spring 2.6×26.6×155.5×16.5	106	Trigger Guard
7	Compression Spring 1.2×7.7×23.85×10.5	57	Hammer	107	Hex Socket Countersunk Screw M4×10
8	Valve Core	58	Hammer Sleeve	108	Picatinny Rail
9	O-ring 11×1.2	59	O-ring 28.2×2.4	109	Knurled Pin Flat-Head 2×7–45#
10	Sealing Block	60	O-ring 23×2.4	110	Tube Clamp
11	Valve Stem	61	Adapter	111	Hex Socket Flat-End Set Screw M5
12	Sealing Ring	62	O-ring 6.5×1.5	112	Front Receiver
13	O-ring 21×1.5	63	Plug	113	Detent Lock Nut
14	Hex Socket Flat-End Set Screw M5×12	64	Air Storage Tube	114	Detent
15	Flow Limiter Pin	65	Rear Frame	115	O-ring 27×2.4
16	O-ring 13×1.5	66	Hex Socket Countersunk Screw M4×6	116	Valve Connector
17	Hex Socket Pan Head Screw M5×30	67	Upper Rail	117	Filter Screw
18	Spacer Plate	68	Knurled Pin Flat-Head 3×14–45#	118	O-ring 2.6×1.2
19	Shoulder Pad Assembly	69	Compression Spring 0.4×2.8×10.75×11	119	Eccentric Valve Core
20	Hex Socket Cup-Point Set Screw M5×6	70	Lower Rail	120	Compression Spring 0.4×2.9×6.5×6
21	Support Plate	71	Knurled Pin Flat-Head 2.5×12–SUS304	121	Eccentric Valve Core Spring Seat
22	Seal Gasket	72	Hex Socket Cup-Point Set Screw M4×6	122	Air Tube
23	Pressure Gauge	73	Connecting Rod	123	Air Tube End Plug
24	Slotted Screw M13×1	74	Retaining Ring 7.5–4.2–0.4	124	O-ring 5.4×1.4
25	Plug	75	Compression Spring 0.6×4.4×20×13	125	Filling Probe
26	O-ring 16×1.8	76	Limit Screw	126	End Cape
27	Lock Nut	77	Y-type Adapter	127	O-ring 14×1.2
28	Hex Socket Cap Screw M5×12	78	Knurled Pin Flat-Head 2×8–SUS304	128	Filter Brass
29	Hex Socket Cap Screw M5×14	79	Trigger	129	O-ring 4.2×1.2
30	Cheek Rest	80	Torsion Spring 0.3×3.3×2.775×8.25	130	Guide Sleeve
31	Plug	81	Knurled Pin Round-Head 2.5×22–45#	131	Return Rod
32	O-ring 14.5×1.8	82	Hex Socket Countersunk Screw M3×5	132	Ceramic Ball ZrO2 2 G5
33	Plug	83	Safety Knob	133	O-ring 5×1
34	O-ring 16×1.5	84	Compression Spring 0.3×2.4×5.6×7	134	Sealing Ring
35	O-ring 26×1.8	85	Steel Ball QC15 2.5 G10	135	O-ring 10×1.2
36	Bridge Block	86	Safety	136	Piston Sleeve
37	Bridge Linkage Shaft	87	Lock Nut	137	O-ring 5×1.2
38	Nut	88	Compression Spring 0.5×4×20×11.5	138	Piston Rod
39	Threaded Adapter Sleeve	89	Sealing Block	139	Adjustment Screw
40	Hex Socket Flat-End Set Screw M6	90	Push Rod	140	Adapter
41	Slotted Flat-Head Pin	91	Seal Sleeve		
42	Side Pull Linkage Rod	92	O-ring 23.6×1.8		
43	Compression Spring 0.4×2.4×9.5×12	93	O-ring 6×1.5		
44	Cylindrical Pin 2 5m6×5	94	Rear Cylinder Connector		
45	Lock Latch	95	Valve Core		
46	Heavy-Duty Spiral Spring Pin 2.5×8	96	Screw		
47	Side Pull Handle	97	O-ring 36×3		
48	External Circlip 3	98	Air Tube End Plug		
49	Side Handle Sleeve	99	Grip Soft Shell		
50	Hex Socket Countersunk Screw M5×14	100	Phillips Large Flat Head Self-Tapping Screw ST4.2×19		

Revised Dec 2020

SPECIFICATION

Caliber	.58 CAL
	.72 CAL
Weight	18 inch Barrel with Muzzle Break 9.5 LBS
	24 inch Barrel with Muzzle Break 10.5 LBS
	30 inch Barrel with Muzzle Break 11.5 LBS
	36 inch Barrel with Muzzle Break 12.6 LBS
Barrel Length	18 Inches
	24 Inches
	30 Inches
	36 Inches
Overall Length	18 Inches Barrel Version 30 inches
	24 Inches Barrel Version 36 inches
	30 Inches Barrel Version 42 inches
	36 Inches Barrel Version 48 inches

After Add Rear Tank System (Removable With Air Pressure) all weight add 1 LBS	
Cocking System	Bolt Action (Side Lever)
Air Tube Capacity	18 Inches Front Airtube Volume 250 CC
	24 Inches Front Airtube Volume 400 CC
	30 Inches Front Airtube Volume 600 CC
	36 Inches Front Airtube Volume 800 CC
Max Air Filling Pressure	4500 PSI /310 Bar
Muzzle Energy	18 Inch Barrel .58 Cal Up To 700 FPE
	18 Inch Barrel .72 Cal Up To 1000 FPE
	24 Inch Barrel .58 Cal Up To 900 FPE
	24 Inch Barrel .72 Cal Up To 1300 FPE
	30 Inch Barrel .58 Cal Up To 1050 FPE
	30 Inch Barrel .72 Cal Up To 1500 FPE
	36 Inch Barrel .58 Cal Up To 1150 FPE
	36 Inch Barrel .72 Cal Up To 1650 FPE
Optics	Picatinny Rail

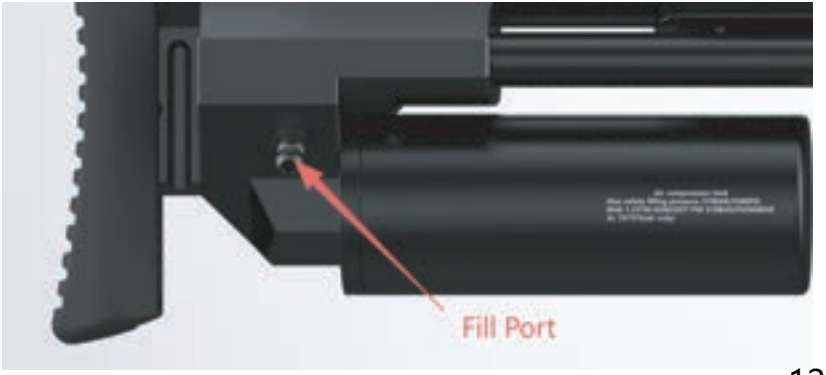
Note: Actual performance may vary depending on ammunition type, temperature, and environmental conditions.

Air Filling Procedure

Ensure the rifle is unloaded and pointed in a safe direction.

Move the safety to the "SAFE" position

Attach the quick-connector securely on the model's fill port.



Close the bleed screw on your air source.

Begin filling slowly to allow internal seals to equalize.

If air escapes from the barrel during initial filling: Cock the rifle once.
This releases hammer pressure from the valve and allows the system to pressurize normally.

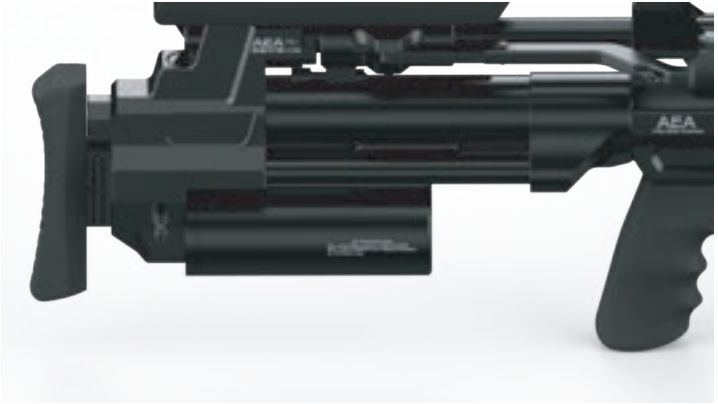
Monitor the filling gauge on your air source.

When complete, stop airflow, open the bleed valve fully, and disconnect the hose only after pressure is released.

Hand Pump Notes

- Drain moisture traps regularly.
- Avoid rapid, continuous pumping to reduce heat and wear.
- Always use a pump designed for 4500 PSI PCP filling.

Rear Airtube



The removable rear airtube may be detached even while pressurized, reducing the rifle’ s weight by approximately 1 lb.
Handle with care.

LOADING, COCKING & FIRING

Safety Before Loading

- Ensure muzzle is pointed in a safe direction.
- Move the safety to the SAFE position.
- Never load the rifle with the safety off.

Cocking the Rifle

Press the safety button located on the side-lever handle.

Pull the side-lever completely rearward until locked.

Ensure the lever remains fully locked before loading.

Loading the Slug

Insert a correct-caliber lead slug into the loading port.

Push the bolt probe forward firmly to seat the slug fully into the chamber.

Close the side-lever completely and ensure it locks forward.

Partial or improper loading may cause jamming or damage.

Firing

- Point the rifle in a safe direction.
- Move the safety to FIRE only when prepared to shoot.
- Maintain proper trigger discipline at all times.

HAMMER DE-COCKING

To safely de-cock the rifle:

Pull and hold the side-lever fully to the rear.

While holding the lever, gently squeeze the trigger.

Allow the hammer spring to decompress under full control.

Return the side-lever to the forward position.

WARNING

Never release the lever unexpectedly during de-cocking.
After de-cocking, dry-fire into a safe direction to confirm the chamber is clear.

CLEANING & MAINTENANCE
Exterior Cleaning

- Wipe the exterior with a soft cloth.
- Apply a light coat of high-quality gun oil to protect metal surfaces.

Barrel Care

Use only airgun-appropriate tools:

- Cleaning pellets
- One-piece cleaning rod
- Non-metallic or airgun-safe brushes

Do NOT use:

- Water
- Firearm solvents
- Degreasers or chemical cleaners
- Steel brushes or jointed rods

Liquid solvents may damage seals, coatings, valve components, and O-rings.

Inspection

- Visually inspect the air tank and seals every 3 years or if damage is suspected.
- If leaks, cracks, abnormal sounds, or irregular function occur—stop using the rifle immediately.

STORAGE

Storage Guidelines

- Unloaded
- In a dry, cool, dark environment
- With pellets/slugs kept separately
- Out of reach of children

The rifle may be stored pressurized unless local regulations require otherwise.

Avoid Environmental Stress

- Do not expose the rifle to direct sunlight or prolonged heat.
- Avoid high humidity to prevent internal or external corrosion.
- Temperatures above normal may degrade seals.

Long-Term Storage

- Apply protective oil to exposed metal.
- Use a gun safe or case with humidity control.
- If stored longer than 6 months, visually inspect all components before use.

OPERATIONAL NOTICES

- Do not modify or remove any safety components.
- Do not attempt to access or adjust the factory-calibrated valve system.
- Only use dry, filtered compressed air.
- Never exceed the maximum fill pressure.
- Always follow local shooting laws and safe-handling practices.

Unauthorized disassembly, power tuning, or internal modification voids the warranty.

WARRANTY — ONE-YEAR LIMITED WARRANTY
Coverage

AEA airguns are warranted to the original purchaser against defects in materials and workmanship for one (1) year from the date of purchase.
Proof of purchase is required.

Exclusions

Warranty does not cover:

- Normal wear items (O-rings, seals, magazines, external finish)
- Damage from misuse, abuse, neglect, or accidents
- Damage from unauthorized repair, modification, or disassembly
- Damage from overfilling or using non-air gases
- Cosmetic wear that does not affect function

Void Conditions

Warranty is void if the rifle has been:

- Modified or tuned
- Opened or repaired by unauthorized personnel
- Used with non-approved components, gases, or ammunition

How to Obtain Service

Contact your authorized dealer or seller.
Provide proof of purchase, serial number, photos, and a description of the issue.
Follow shipping or inspection instructions from the dealer or service center.
Do not ship the product without prior authorization.

Manufacturer’s Rights

AEA Precision Airguns reserves the right to:

- **Modify or improve products without prior notice**
- **Change specifications or discontinue components**
- **Determine whether a repair or replacement is appropriate**

Various AEA Airguns Bring You Completely Different Experiences

AEA
PRECISION AIRGUNS

AEA PRECISION AIRGUNS INC.
www.aeaairgun.com
aeaairgun@gmail.com