

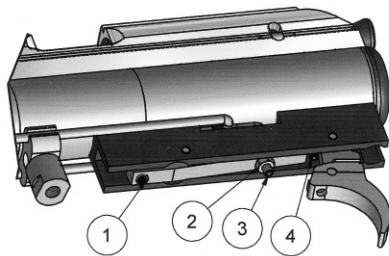
## TRIGGER ADJUSTMENT.

The trigger is set at the factory, but some aspects can be adjusted to suit individual preferences.

1. This screw adjusts the weight of second stage trigger pull, to increase the weight of pull turn the screw clockwise, and anti-clockwise to reduce the weight of pull.
2. Sear engagement screw locknut. Should you wish to adjust the degree of sear engagement, first slacken off this locknut by turning anti-clockwise, and once the desired amount of engagement has been set (using screw 3), retighten the locknut.
3. Sear engagement screw. This screw alters the length of the second stage release, turn anti-clockwise to increase the amount of engagement, and clockwise to decrease the amount of engagement.

**CAUTION GREAT CARE SHOULD BE TAKEN IN THE ADJUSTMENT OF THIS SCREW. ANY EXCESSIVE CLOCKWISE TURN COULD RENDER THE GUN IN A CONDITION IN WHICH IT COULD FIRE ACCIDENTALLY. IF IN ANY DOUBT CONSULT A QUALIFIED GUNSMITH**

4. First stage trigger adjustment, this should not be adjusted.



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# BSA



# SCORPION

Professional Precharged Hunting Rifle

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## WARNING

This rifle can cause serious injury or death. It is powerful when compared to traditional air rifles.

The compressed air supply needs far stricter safety control than spring powered air rifles. Ownership carries with it great responsibility. **Take extreme care.**

***Always follow the safety rules***

## SAFETY RULES

1. Treat every rifle as though it was loaded; make it a rule that every time you handle any type of rifle or gun you check it yourself to see that it is not loaded
2. Never under any circumstances point a rifle at anyone.
3. Be sure of your target before you squeeze the trigger.
4. Be sure that there is a good safety area behind the target.
5. Beware of ricochets - do not shoot at water or other surfaces that may cause the pellet to bounce off and carry on in a new direction.
6. Carry only empty rifles; unload before entering your house or car.
7. Always carry your rifle so that the direction of the muzzle can be controlled even if you stumble.
8. Never leave a rifle unattended even if it is unloaded.
9. Never climb a fence or obstacle unless your rifle is unloaded.
10. After use put your rifle away safely; unloaded and out of reach of children.

## YOU ARE ADVISED TO WEAR EYE AND HEARING PROTECTION

Always wear adequate shooting glasses whenever you are shooting and make certain that persons close to you are similarly protected. In addition to the obvious hazard associated with pellets damaging eyes, unprotected eyes may be injured by ricochets and debris flying off the target or backstop

## LOADING YOUR SCORPION.

1. Make sure the safety catch is in the rear (safe) position.
2. To cock the gun, lift the bolt handle and pull back until the bolt locks.
3. With the bolt open, place a pellet in the loading port.
4. Push the bolt forward to load the pellet into the breech, and down to return the bolt to its original position. The gun is now cocked and loaded.
5. The gun can be de-cocked by pulling the bolt back, and while holding it firmly, squeezing the trigger to allow the bolt to move forward against resistance. Remember that there may still be a pellet in the barrel, and on no account store the gun loaded.



The air can then be cautiously turned on and the rifle gradually filled. At regular intervals the tap on the pressure cylinder should be closed and the indicated pressure on the pressure gauge noted. This pressure reading is the pressure in the hose and the pressure that has been reached in the rifle.

**CAUTION** *Do not over charge the rifle as this may be dangerous. Doing so will not give any better results and will damage the rifle.*

When charging is completed, bleed the excess air from the hose and carefully remove the adaptor from the rifle.

Replace the endcap, to protect the quick fill inlet from dirt and damage.

**Remember that your rifle may still be cocked and you are advised to de-cock it immediately for safety reasons.**



## RIFLE DESCRIPTION.

The BSA Scorpion is a single shot pneumatic air rifle. The rifle contains many specific design features including:

- Adjustable two stage LS trigger.
- Bolt action.
- True tapered choked barrel as proven on the superTEN.
- Quick-fill system.
- Optimum charging pressure .177 200 bar.
- Optimum charging pressure .22 200 bar.  
(overfilling will reduce power)

## CARE AND MAINTENANCE

Only a competent Gunsmith should undertake stripping and repair of this rifle.

The components were designed for optimum performance and any tampering, modification or alteration may cause a malfunction and may make the rifle unsafe to use and may invalidate the warranty.

All air rifles require periodic maintenance and inspection, which may reveal a need for adjustment or repair. Have your air rifle checked by a competent gunsmith annually even if it seems to be working well, since breakage, improper functioning, undue wear, or corrosion of some components may not be apparent from external examination.

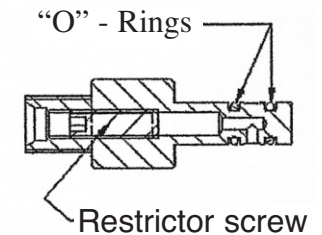
If the rifle is dropped, or if you notice ANY mechanical malfunction, DO NOT continue to use the air rifle. UNLOAD the air rifle and take it to a competent gunsmith. Failure to keep your air rifle in proper working order can lead to a potentially dangerous condition.

After any maintenance, or repair work, **always re-check the power of your rifle**. It is your responsibility to ensure that the rifle is below the legal limit of 12 ft.lbs and even minimal work carried out on your rifle could effect the power. After use, check to see that the rifle is unloaded, wipe metal and woodwork with a lightly oiled cloth. Particular attention should be paid to the metal work, as the finish is not fully rustproof and can be affected by damp and particularly perspiration.

## Method of Charging the Scorpion

The rifle is supplied with a filling adaptor which is fitted with two “O” rings, and this should be screwed on to the end of the hose attached to the large cylinder.

The adaptor has a restricter screw fitted which must be left screwed tightly in place when using a large pressure bottle to fill the gun, or the rifle will be damaged. If a hand pump is used the restricter screw should be loosened or removed using the allen key provided.



Before inserting into the rifle, the probes “O”- Rings should be carefully examined (if any damage is evident the “O”- Ring must be changed before continuing), and ensure a small amount of MolyKote 111 grease is applied to “O”- Rings. The quick fill device is fitted on the front of the air cylinder. Unscrew the endcap, turning anticlockwise to reveal the quick-fill inlet.

If the Scorpion’s air cylinder is empty, first cock the rifle to prevent air escaping through the transfer port and the barrel. The probe can then be pushed into the hole in the body until it is fully inserted and positive resistance is felt.

## GETTING STARTED

### Using Compressed Air

The maximum charging pressure for the Scorpion is 200 bar.

Only dry divers air should be used in this gun. **Under no circumstances** should Oxygen or any other gas be used to fill the rifle or air cylinder. This could result in a serious explosion.

High-pressure compressed air can be used safely on the Scorpion provided strict safety practices are adhered to. The normal filling method is to transfer dry air from a large cylinder (see filling instructions). Under no circumstances should a large cylinder be used without thorough training preferably from an authorised centre when the equipment is purchased. A pressure gauge must be included in the charging set-up together with a hose bleed device.

If a hand pump is used the water trap must be opened at regular intervals during the pumping cycle. The internal bore of the rifle cylinder must be inspected for corrosion by a competent gunsmith at 12 month intervals.

**Under no circumstances should the Scorpion be filled with air when the rifle is in a partially disassembled state.**

Removing parts and then filling with air can be hazardous.

Do not use any grease or Lubricating Oil on the air cylinder or connection except special Molykote 111 grease. Automotive grease or mineral oils and grease can cause an explosion if used with high-pressure air.

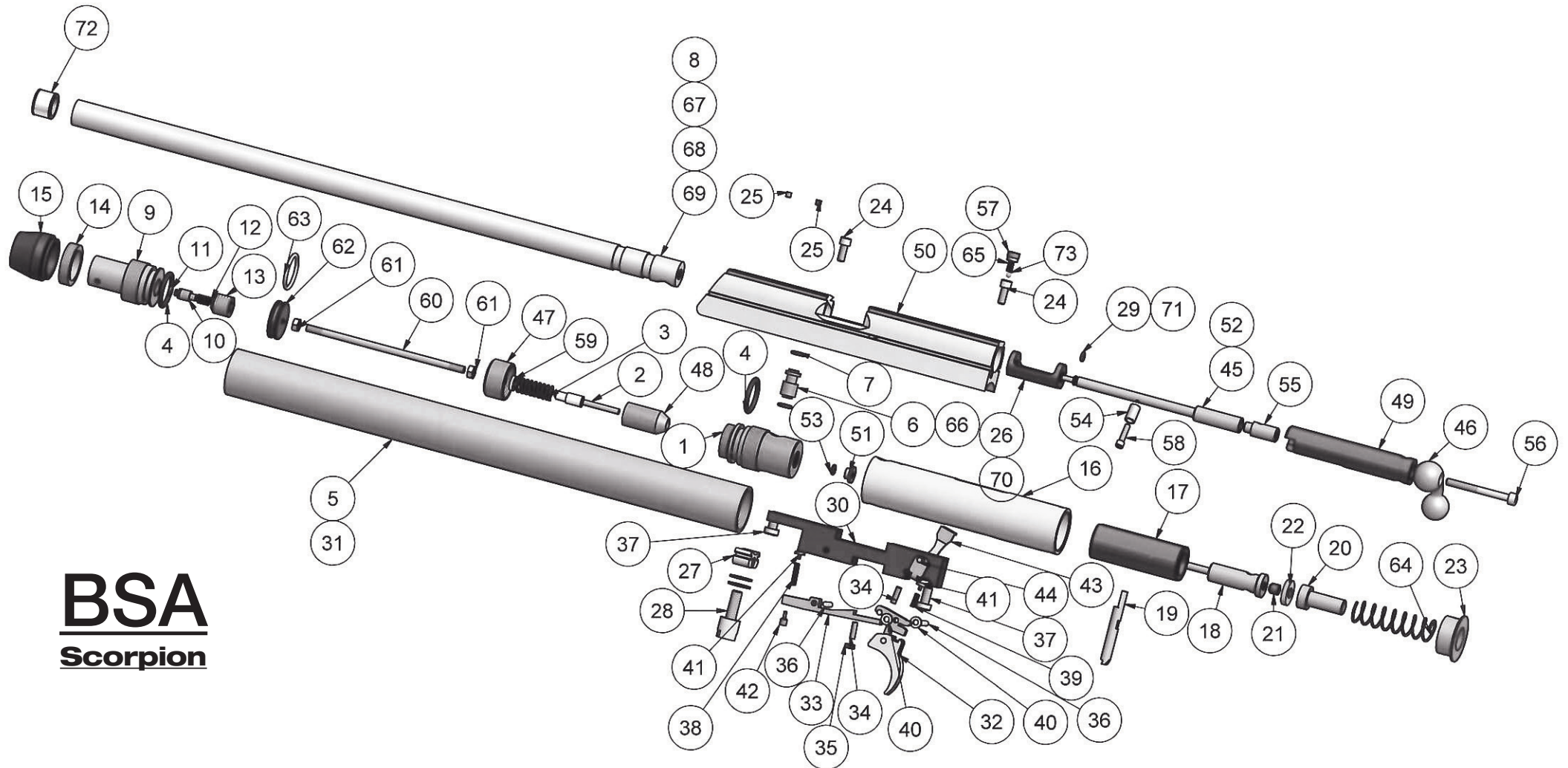
- Do not use oil containing SILICON for wiping metal or lubricating moving parts. Damage can occur to the surface finish and particularly to the moving parts of the trigger.
- The rifle should not be oiled or greased except as directed above or when overhauled by a gunsmith. The incorrect application of oil and grease can often do more harm than good.
- Do not use any grease or Lubricating Oil on the air cylinder or connection except special Molykote 111 grease. Automotive grease or mineral oils and grease can cause an explosion if used with high-pressure air. Be sure, Do not take Risks. (BSA Guns produce a low cost sachet of Molykote grease, which is available from gunshops).
- If your rifle has been left unused for a considerable time the bolt may not release on it's own. If this happens, depress the release catch and gently ease the bolt back. Once free, put a little oil on the O-ring on the bolt and work it back and forth a few times.

ITEM	QTY	PART NUMBER	TITLE
1	1	16-6718	Valve Seating
2	1	16-6057	Knock Off Valve
3	1	16-6092	Valve Stem Spring
4	1	16-6537	"O"-Ring
5	1	16-6500	Main Reservoir Tube (Carbine)
6	1	16-6738	.22 Transfer Port
7	2	16-5352	"O"-Ring Transfer Port
8	1	16-6559	Carbine Barrel .22
9	1	16-6519	Quick Fill Inlet
10	1	16-6322	Brass Plunger Inlet Valve
11	1	16-6323	Plunger "O"-Ring
12	1	16-6319	Plunger Spring
13	1	16-6539	Quickfill Plug
14	1	16-6520	Quickfill Locknut
15	1	16-6505	Knurled End Cap
16	1	16-6720	Main Spring Tube
17	1	16-6722	Hammer Bearing
18	1	16-6621	Hammer Weight

ITEM	QTY	PART NUMBER	TITLE
19	1	16-6716	Hammer Latch Pin
20	1	16-6730	Spring Guide
21	1	16-6542	Hammer Grub Screw
22	1	16-6321	Nitrile Washer
23	2	16-6734	Endcap Adjuster
24	2	16-6670	Breech Fixing Screw
25	1	16-6557	Breech Barrel Screw
26	1	16-6739	Pellet Inlet .22
27	1	16-6532	Push Bar Holder
28	1	16-6533	Linkage Fixing Bolt
29	1	16-6560	Probe "O"-Ring Seal .22
30	1	16-6619	Trigger Plate
31	1	16-6624	Reservoir Tube (rifle)
32	1	16-6597	Trigger Grip Assembly
33	1	16-6508	Sear
34	1	16-6569	First Pull Adjuster
35	1	16-6555	M3 Nut
36	1	16-6558	Roller
37	1	16-6551	Trigger Plate Screw

ITEM	QTY	PART NUMBER	TITLE
38	1	16-6574	Sear Spring
39	1	16-6572	First Pull Spring
40	2	16-6576	Trigger Spacer
41	1	16-6585	Spring Guide
42	1	16-6588	Trigger Weight Screw
43	1	16-6529	Safety Plate
44	1	16-6591	Safety Pivot Pin
45	1	16-6711	Probe .22
46	1	16-6714	Bolt Handle
47	1	16-6622	Knockoff Retainer Cap
48	1	16-6623	Knockoff Restrictor
49	1	16-6710	Probe Bearing
50	1	16-6709	Breech Block
51	1	16-6522	Valve Seating Bush
52	1	16-6771	Probe .177
53	1	16-6222	Valve Stem Seal (PTFE)
54	1	16-6724	Cocking Pin
55	1	16-6721	Bolt Extension

ITEM	QTY	PART NUMBER	TITLE
56	1	16-6723	Fixing Bolt
57	1	16-6728	Ball Catch Retainer
58	1	16-6729	Cocking Pin Bolt
59	1	16-6584	Knock Off Valve Spring Washer
60	1	16-6735	Baffle Rod
61	2	16-6335	M4 Nut
62	1	16-6736	Baffle
63	1	16-6737	Baffle "O"-Ring
64	1	16-6712	Hammer Spring .22
65	1	16-6713	Ball Retainer Spring
66	1	16-6772	Transfer Port .177
67	1	16-6601	Carbine Barrel .177
68	1	16-6609	Rifle Barrel .22
69	1	16-6612	Rifle Barrel .177
70	1	16-6773	Pellet Inlet .177
71	1	16-6604	Probe O-Ring Seal .177
72	1	16-6726	Cap
73	1	16-6074	Ball



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