

# BSA GUNS



## Lightning XL

AIR RIFLE

### Owner's Instruction Manual

#### **IMPORTANT**

Please read these instructions thoroughly before using your rifle.

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



## **WARNING**

This air rifle is not a toy and requires adult supervision if used by a person under the age of 17 years. Misuse or careless handling may result in serious injury or death.

## **AIRGUN SAFETY CODE**

- Treat every rifle as though it was loaded. When handling any rifle or gun don't take anyone's word that it's unloaded, check it yourself.
- Never under any circumstances point your rifle at anyone.
- Never shoot on land without permission from the owner.
- Always ensure it's safe to shoot and be certain of your target before you squeeze the trigger.
- Be sure that there is a safe area behind the target or a backstop to catch your pellets. If in doubt, don't shoot.
- Beware of ricochets - do not shoot at water or other smooth surfaces that may deflect the pellet in a new direction.
- Make sure your rifle is unloaded when carrying it, or taking it indoors or into a car.
- Always unload your rifle before climbing fences or other obstacles.
- Never leave your rifle unattended, even if it's unloaded.
- After use unload, clean, dry and lubricate your rifle before locking it away safely and out of reach of children. Store your pellets separately.
- Always follow the safety instructions in this booklet.

## **THE LAW**

It is illegal:

- to give an airgun to anyone under the age of 17 years;
- for anyone under 17 to be in possession an airgun, unless supervised by someone at least 21 years old\*
- to carry a loaded air weapon in a public place;
- to trespass on private land, or enter property without the owner's consent, with an air weapon;
- to kill or injure any bird or protected animal unless you are authorised to do so under the Wildlife and Countryside Act 1981; and
- to fire an air weapon within 15 metres (50 feet) of a road or street.

\* Persons over the age of 14 can use an airgun unsupervised only at an approved shooting club or on private land with the landowner's consent.

# BSA

## Lightning XL

### AIR RIFLE

The BSA Lightning XL has a special 10 inch barrel and is fitted as standard with a BSA volumetric silencer. It is available in either .177, .22.

The Lightning XL has a beech stock and two-stage trigger.



- Manual safety catch
- Patented barrel latch for perfect barrel alignment
- Hand finished stock with ventilated recoil pad
- Maxi-grip scope rail

## TECHNICAL INFORMATION

Overall length	Barrel length	Weight
99cm 37in	37cm 10in	2.75Kg 6.1lbs

All BSA airguns are made to the highest standards at our factory in Birmingham. BSA barrels are cold hammered and rifled with 12 groove 1:19in rifling and crowned for optimum accuracy.

Before leaving the factory every airgun is tested on special purpose machinery to verify velocity and pellet grouping. UK models are restricted to produce no more than 12 ft.lbs of muzzle energy.

Velocity:            .177 (4.5mm) 850 ft/s (260 m/s)  
                          .22 (5.5mm) 560 ft/s (170 m/s)

Figures shown are for guidance only. Actual velocity will depend on the weight and type of pellet used.

## GETTING STARTED

Your new BSA rifle is packed fully assembled and ready to fire. Before attempting to fire the rifle first read the safety notes at the front of this booklet and make sure you understand the following operating instructions.

### Loading and firing

#### CAUTION!

Always wear protective glasses when shooting and make certain that persons close to you are similarly protected. Serious injuries can be caused by ricochets and debris flying off the target or backstop.

Ensure you have the correct calibre and type of pellet for your rifle. BSA manufacture a range of recommended pellets suitable for target shooting or hunting under varying conditions.



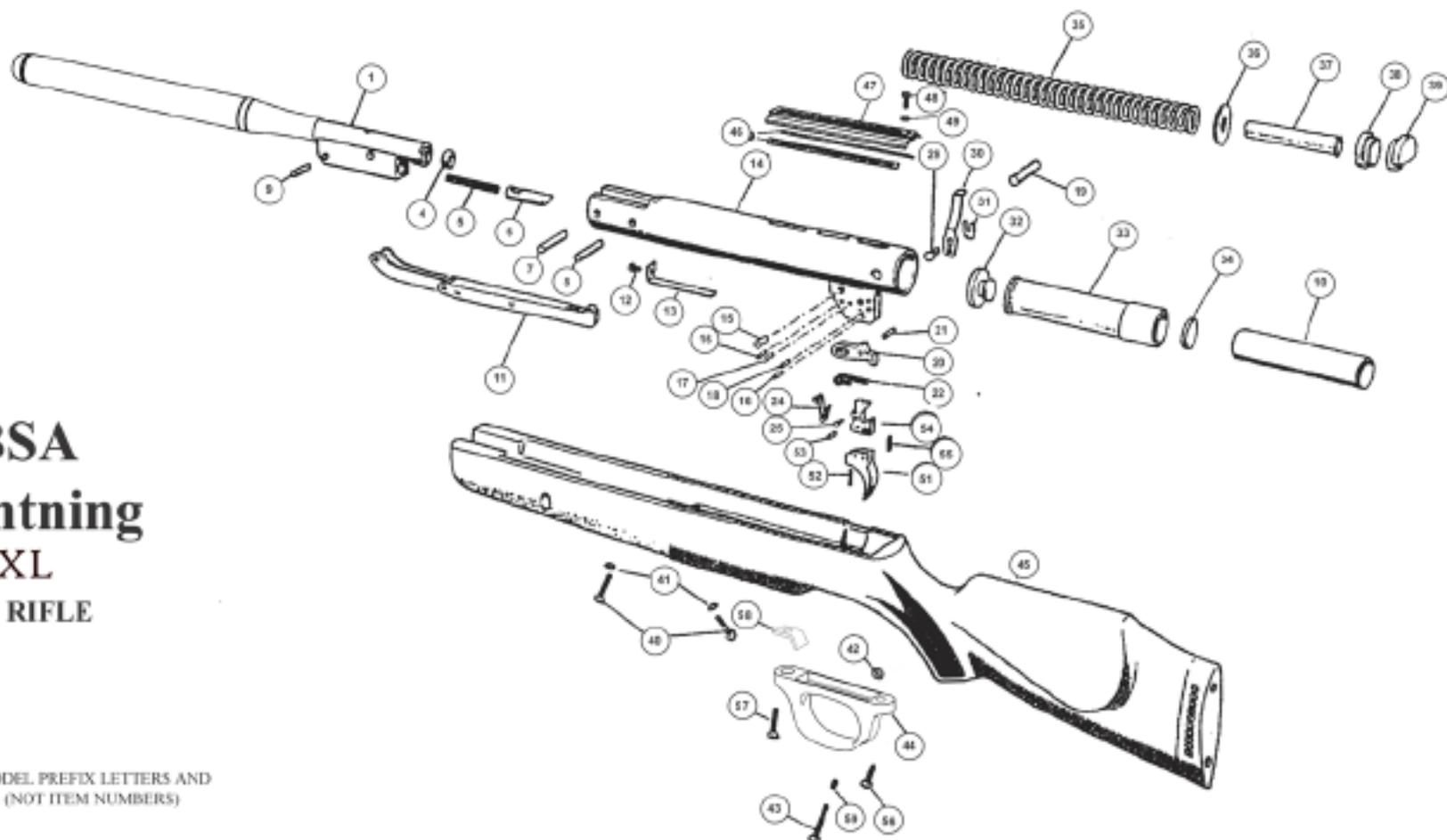
The safety catch is located on the right side of the action above the trigger. Engage the safety catch by pulling the lever backwards to the 'S' position. This is the 'safety' position, which locks the trigger to prevent the rifle firing.

With your fingers clear of the trigger area, grasp the pistol grip firmly and pull down the barrel until the trigger engages. Do not force the barrel beyond this point

#### CAUTION!

Like all mechanical devices, safety mechanisms can be adversely affected by wear, abuse, dirt or corrosion. Never assume that it is a foolproof way of preventing accidental discharge and always follow the safety code when handling an air rifle.

# BSA Lightning XL AIR RIFLE



PLEASE QUOTE MODEL PREFIX LETTERS AND  
PART NUMBER (NOT ITEM NUMBERS)

ITEM	DESCRIPTION	PART No.
1	Barrel .177	16-5161
	Barrel .22	16-5162
4	Barrel Sealing Washer	16-1050
5	Barrel Latch Spring	16-1034
6	Barrel Latch	16-1012
7	Barrel Axis Pin	16-2366
8	Barrel Stop Pin	16-3366
9	Cocking Link Axis Pin	16-5228
10	Piston Sleeve	16-4926
11	Cocking Slide	16-4846
12	Screw Fixing Slipper Plate	16-3164
13	Slipper Plate	16-4851
14	Cylinder	16-4896
15	Sear Axis Pin	16-1021
16	Sear Spring & Trigger Pin	16-1022
17	Trigger Spring Pin	16-4853
18	Trigger Stop Pin	16-4854

ITEM	DESCRIPTION	PART No.
19	Mainspring Retaining Pin	16-4855
20	Sear	16-6703
21	Sear Spring Support Pin	16-4856
22	Sear Spring	16-4857
24	Trigger Spring	16-4859
25	Trigger Strut Safety Pin	16-4860
26	Trigger Adjusting Screw Plug	16-4861
27	Trigger Grip	16-4862
28	Trigger Adjusting Screw	16-4863
29	Safety Catch Axis Pin	16-4864
30	Safety Catch Lever	16-4865
31	Retaining Clip	16-4866
32	Piston Seal	16-4867
33	Piston	16-4890
34	Piston Weight (as required)	16-4869
35	Mainspring	16-0672
36	Mainspring Seating Washer	16-6708

ITEM	DESCRIPTION	PART No.
37	Mainspring Guide	16-6706
38	End Cap Locating Plug	16-4872
39	Cylinder End Cap	16-3560
40	Fore-end Screw (2)	16-3038
41	Nylon Bush (2)	16-5130
42	Rear Screw Washer	16-5167
43	Stock Rear Screw	16-1031
44	Trigger Guard	16-6568
45	Stock	16-5160
46	Scope Mounting Strip (2)	16-4691
47	Scope Rail	16-4889
48	Rail Stop Screw	16-4893
49	Scope Stop	16-4904
51	Trigger Grip	16-6702
52	Trigger Adjusting Screw	16-4863
53	Trigger Adjusting Screw Plug	16-4861
54	Trigger Strut	16-6701

ITEM	DESCRIPTION	PART No.
55	Trigger Spring 1st Pressure	16-4888
56	Trigger Guard Fixing Screw	16-6593
57	Trigger Guard Fixing Bolt	16-5100
58	Recoil Insert	16-8453
59	Lock Screw	16-5164

**CAUTION!**

If the safety catch is not applied and the finger touches the trigger the barrel will slam shut, causing damage to both the stock and barrel and possible injury to the shooter.

**RESULTING REPAIRS CAN BE EXPENSIVE AND ARE NOT COVERED BY THE WARRANTY.**

Insert one pellet nose first into the exposed barrel chamber. Attempting to fire darts, balls or anything other than the recommended lead pellet may damage the rifle and will invalidate the warranty.

Return the barrel to the closed position, making sure it clicks securely into place.

When you are ready to fire, move the safety catch forward towards the 'F' position. Return the safety catch to the 'S' position after firing.

Note: Avoid prolonged 'dry firing' of your rifle (cycling and firing with an empty chamber) as this may cause damage to airway seals.

**CAUTION!**

It is dangerous to fire a carbine rifle without the silencer in place. On no account should it be removed.

## FITTING TELESCOPIC SIGHTS

The BSA Lightning XL has a Maxi-grip scope rail, designed to accept a standard range of scope mounts.

Ring mounts are available in three heights, to accommodate the diameter of the scope's objective lens. Refer to the scope manufacturer's instructions on fitting and adjusting.

Single screw mounts should not be used.

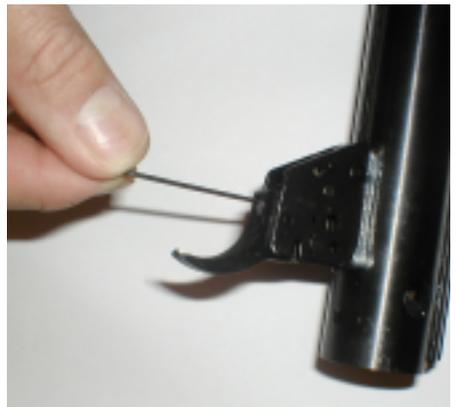


The raised Allen screw at the rear of the Maxigrip rail doubles as an arrestor block. If not required, remove the bush beneath the screw.

## TRIGGER ADJUSTMENT

The trigger can be adjusted for preferred weight of pull, using the Allen key provided. Turn the adjustment screw clockwise to increase the trigger weight or anti-clockwise to lighten it. The rifle must not be cocked or loaded when carrying out this adjustment.

In the interests of safety, take care not to over-lighten the trigger weight.



**CAUTION!**

Dismantling and repair of this rifle should only be carried out by a competent gunsmith.

**CARE AND MAINTENANCE**

Your rifle has been designed and manufactured for optimum performance. Tampering with the components, or any modifications and alterations, may make the rifle unsafe to use and could invalidate the warranty.

All air rifles require periodic maintenance and inspection. Breakages, improper functioning, undue wear or corrosion of components may not always be apparent from external examination. So, even if everything seems to be in good working order, have your air rifle checked annually by a competent gunsmith.

If you notice ANY mechanical malfunction, perhaps as a result of dropping the air rifle, you should not continue to use it. Unload the air rifle and arrange for it to be professionally repaired. Failure to keep your air rifle in proper working order can be potentially dangerous.

You should always have the power of your air rifle re-checked following any maintenance or repair work. The smallest of repairs or adjustments can have an effect on the power. It is your responsibility to make sure the air rifle remains below the legal limit of 12 ft.lbs. **YOU ARE LEGALLY RESPONSIBLE TO OBSERVE THIS LIMIT.**

After each use, check that your rifle is unloaded and wipe the metal and wood-work surfaces with a lightly oiled cloth. Pay special attention to the metal finishes as they are not fully rustproof and are vulnerable to damp and particularly perspiration.

**NOTE: DAMAGE CAUSED BY LACK OF PROPER CARE AND MAINTENANCE IS NOT COVERED BY THE WARRANTY**

*Do not use oils containing SILICON as this can cause damage to metal surfaces and particularly to the trigger mechanism.*

The rifle should not be oiled or greased except as directed above or when overhauled by a gunsmith. Incorrect application of oil and grease can often do more harm than good.



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BSA Guns (UK) Ltd reserves the right to alter the designs or any constructional details of any product at any time without prior notice.

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