

BSA GUNS



SuperTEN

PRE-CHARGED AIR RIFLE

Owner's Instruction Manual

IMPORTANT

Please read these instructions thoroughly before using your air rifle.

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. It is more powerful than conventional air rifles and the compressed air supply requires far stricter safety control. 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:

- for anyone under 17 to be in possession an airgun, unless supervised by someone at least 21 years old, or are using it at an approved shooting club. From the age of 14 a person can use an airgun unsupervised providing they are on private land with the landowner's consent;
- 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.

* Technically, an air rifle is considered loaded if there are pellets in the magazine, even if the magazine is not in the airgun.

BSA

SuperTEN

PRE-CHARGED AIR RIFLE

Voted 'Airgun of the Year' when it first made its appearance, the BSA SuperTEN is one of the most accurate sporting pre-charged pneumatic air rifles on the market.

Both the standard length rifle and the carbine feature a removable, re-chargeable 200cc 'buddy' bottle air supply, capable of powering over 230 shots via the legendary John Bowkett designed regulator, with superb shot to shot consistency.

A removable 10-shot magazine, precise bolt action operation, and a sensitive, fully adjustable match trigger with safety dead-lock, make the SuperTEN an ideal target rifle that is equally at home in the field.

- Super silent recoilless pneumatic action
- Patented SLC regulator technology
- Removable, rechargeable 200cc buddy bottle
- 10-shot rotary magazine with bolt action feed
- Fully adjustable match trigger with dead-lock safety
- Over 230 shots per fill (.22 standard model)
- Height adjustable sliding butt plate
- Full length dove tails



TECHNICAL INFORMATION

	Overall length	Barrel length	Weight
Rifle	95cm 37 in	43.5cm 17 in	3.6Kg 7.9lbs
Carbine	85cm 33 in	33.5cm 13 in	3Kg 6.6lbs
Bull-barrel Rifle	107.5cm 42 in	43.5cm 17 in	3.7Kg 8.2lbs
Bull-barrel Carbine	85cm 33 in	33.5cm 13 in	3.1Kg 6.8lbs

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, crowned and choked for optimum accuracy. Bull barrel versions feature a full length barrel shroud.

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. Working pressure 232 bar (3365psi).

	Rifle	Carbine
Shots per fill *	160	100
	230	150

*Approximate only

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

THE 'DEAD LOCK'

The SuperTEN features a patented 'dead lock' safety device that prevents accidental firing if the rifle is dropped or knocked. It is an essential safeguard for use with the sensitive match trigger.

If the bolt is not pulled fully back and down until a click is heard, the 'dead lock' feature will prevent the rifle being fired. Do not try to clear this by applying a heavier load on the trigger. The trigger is designed to 'fail safe' if forced.

To release the loaded pellet, first apply the safety catch, pull back the bolt handle and lock down in the rearward position, remove the magazine and push the bolt forward. The trigger will now function again. Aim at a safe target, slide off the safety catch and fire to empty the barrel.

GETTING STARTED

Your new BSA SuperTEN rifle is fully assembled but for the bolt handle, which is packed separately. Wipe the handle with a lightly oiled cloth to remove the anti-rust coating and screw into the bolt using the Allen key provided.

Take care not to overtighten the handle as this could cause serious internal damage.

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.



Using compressed air

CAUTION!

Only dry divers' air should be used in this gun. Do not attempt to fill the buddy bottle with oxygen or any other gas. Doing so could cause a serious explosion.

High pressure compressed air can be used safely with the SuperTEN, provided strict safety codes are followed. The removable 'buddy' bottle should be filled from a standard dry air tank supply, preferably from an authorised centre. A pressure gauge must be included in the charging set-up, together with a supply hose bleed device. An adapter is available for filling the bottle with a hand pump.

When using a hand pump care must be taken to open the water trap at regular intervals to release moisture. The BSA hand pump, manufactured by Hills of Sheffield incorporates a patented 'Dry-pac' moisture extraction system and is highly recommended.

Under no circumstances should the buddy bottle be fitted when the rifle is in a partially assembled state.

CAUTION!

Use only Molykote 111 grease on the air cylinder or connection. Automotive mineral oils and grease can cause an explosion if used with high-pressure air.

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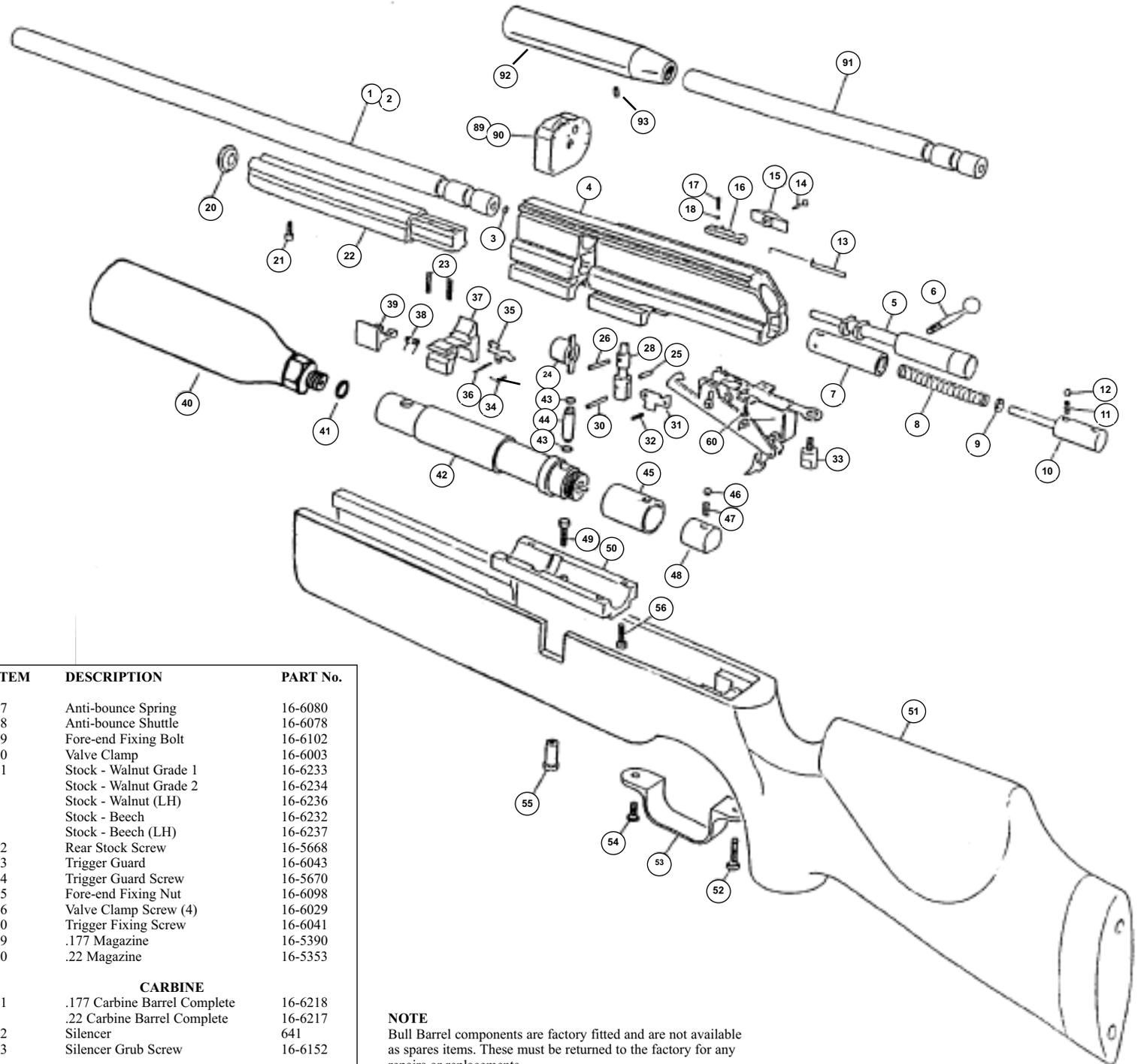
SuperTEN

PRE-CHARGED AIR RIFLE

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

ITEM	DESCRIPTION	PART No.
1	.177 Barrel Complete	16-6052
2	.22 Barrel Complete	16-6055
3	.22 Barrel Seal	16-5352
	.177 Barrel Seal	16-5385
4	Body	16-6001
5	.22 Bolt	16-6004
	.177 Bolt	16-6133
6	Bolt Handle	16-6009
	Piston	16-6005
8	.22 Hammer Spring	16-6008
	.177 Hammer Spring	16-6134
9	Hammer Spring Shim	16-6101
10	Spring Guide	16-6011
11	Bolt Indent Spring	16-6012
12	Boly Indent Ball	16-6013
13	Safety Link	16-6037
14	Safety Button Screw	16-6042
15	Safety Button	16-6039
16	Safety Slide	16-6038
17	Safety Slide Indent Spring	16-6040
18	Safety Slide Indent Ball	16-5339
20	Rubber End Cap	16-6131
21	Pneumatic Valve Retaining Screw	16-6109
22	Shroud and Clamp Assembly	16-6107
23	Barrel Clamp Screws	16-6020
24	Magazine Index Shuttle	16-6018
25	Hammer Catch Pin	16-6093
26	Cocking Lug (pin)	16-5588
28	Hammer Block	16-6156
29	Dead Lock Pin	16-5587
30	Bissel Pin	16-6163
31	Hammer Catch	16-6162
32	Trigger Mechanism (complete)	16-6129
33	Stock Mounting Stud	16-5672
34	Index Lever Spring	16-6024
35	Index Lever	16-6023
36	Index Lever Pin	16-6025
37	Magazine Holder	16-6002
38	Magazine Catch Spring	16-6022
39	Magazine Catch	16-6108
40	Air Cylinder	16-6089
41	Air Cylinder Seal	16-6090
42	.22 Pneumatic Valve Assembly	16-6082
	.177 Pneumatic Valve Assembly	16-6135
43	Transfer Tube Seals (2)	16-5352
44	Transfer Tube	16-6056
45	Anti-bounce Tube	16-6077
46	Anti-bounce Ball	16-6081

ITEM	DESCRIPTION	PART No.
47	Anti-bounce Spring	16-6080
48	Anti-bounce Shuttle	16-6078
49	Fore-end Fixing Bolt	16-6102
50	Valve Clamp	16-6003
51	Stock - Walnut Grade 1	16-6233
	Stock - Walnut Grade 2	16-6234
	Stock - Walnut (LH)	16-6236
	Stock - Beech	16-6232
	Stock - Beech (LH)	16-6237
52	Rear Stock Screw	16-5668
53	Trigger Guard	16-6043
54	Trigger Guard Screw	16-5670
55	Fore-end Fixing Nut	16-6098
56	Valve Clamp Screw (4)	16-6029
60	Trigger Fixing Screw	16-6041
89	.177 Magazine	16-5390
90	.22 Magazine	16-5353
CARBINE		
91	.177 Carbine Barrel Complete	16-6218
	.22 Carbine Barrel Complete	16-6217
92	Silencer	641
93	Silencer Grub Screw	16-6152



NOTE
Bull Barrel components are factory fitted and are not available as spares items. These must be returned to the factory for any repairs or replacements.

Removing the buddy bottle

Before attempting to remove the buddy bottle, first apply the safety catch by sliding it towards the rear of the rifle to cover the red dot. Pull the bolt back to the rear position and drop the handle into its retaining slot. This will cock the rifle. Take out the magazine.

CAUTION!

Attempting to remove a partly filled buddy bottle will result in a violent discharge of air which can damage the filler valve 'O' ring. It is most important therefore, to follow the correct procedure for removal.

To avoid damage to the 'O' ring which can result in leaks, it is essential to first close the valve on the buddy bottle by unscrewing it one full turn; this prevents the bottle re-filling the regulator. There will also be compressed air remaining in the rifle's regulator valve. To release this, move the bolt to its forward position, point the rifle at a safe target, slide off the safety catch and fire. Repeat the firing cycle until the muzzle discharge becomes quieter and all the air is expelled.

If the discharge does not quieten after dry firing 8-10 times, undo the bottle a further quarter turn and repeat the procedure. Once all air is expelled from the regulator the bottle can then be safely unscrewed.

When re-filling the bottle always check the pressure gauge to ensure the recommended maximum charge pressure of the buddy bottle is not exceeded. On the standard 200cc bottle the charge pressure is 232 bar (3365psi). Before re-fitting the buddy bottle, check the condition of the filler valve 'O' ring and apply a little Molycot 111 grease.

CAUTION!

Do not exceed the recommended air pressure for the buddy bottle, which will be stamped on the bottle (e.g. CP232 bar). Fill slowly to avoid overheating.

Loading the magazine

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. Hold the magazine between finger and thumb with the cover plate screw head uppermost. Push a pellet nose first into the magazine loading chamber and press down its skirt under the cover plate. Rotate the central body of the magazine anti-clockwise until the next vacant position lines up with the hole in the cover plate. Insert another pellet and repeat the procedure until the magazine is full.

The white dot on the magazine body will be at the top when all ten pellets are loaded. Note that the cover plate opening is intentionally out of line with the pellet chambers in order to retain the pellets.

Note: The magazine is factory filled with a special lubricating grease which is vital for proper functioning. Take care to avoid contamination with dirt or grit and always carry magazines in a sealed plastic bag. At any stage during loading, the magazine body can be moved back one position by pressing the escapement mechanism lever.



Preparing to fire

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.

Apply the safety catch by sliding it towards the rear of the rifle to cover the red dot. Pull the bolt back fully to the rear position and drop the handle into its retaining slot.

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.



Insert a loaded magazine into the slot on the left-hand side of the rifle and press into place. When fully loaded a white dot will be visible on the top surface of the magazine body.

Lift the bolt handle out of the rear holding position, push it forwards and drop it into the forward retaining position. Aim at a safe target, slide off the safety catch and gently but firmly squeeze the trigger to fire. When the tenth and final pellet has been indexed into position, a white spot indicator on the magazine body will come into view when the bolt is pulled backwards to cock the rifle. Lock down the bolt in the forward position to fire the last shot.

CAUTION!

If the rifle fails to fire, it will be in the 'dead lock' condition. Follow the instructions for re-setting before proceeding. Do not attempt to move the bolt with the magazine in place or you will jam two pellets into the barrel. A pellet is inserted into the barrel each time the bolt is pushed forward.

THE SILENCER

The BSA SuperTEN 'Bull-Barrel' versions have a shrouded barrel, incorporating the Sound Attenuating System. The SuperTEN carbine is equipped with a separate super-efficient SuperTEN silencer.

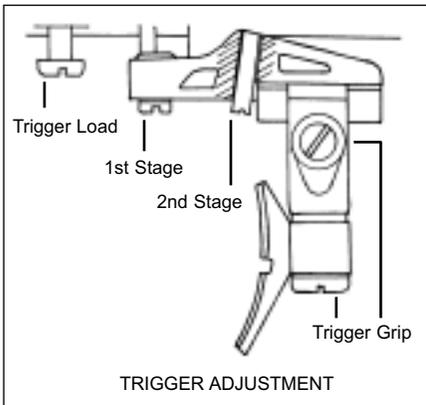
Note: It is dangerous to attempt to fire a carbine without the silencer in place. On no account should it be removed.

TELESCOPIC SIGHTS

The BSA SuperTEN has an integral dovetailed 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. It is recommended you use double screw mounts. Refer to the scope's manufacturer's instructions on fitting and adjusting.

TRIGGER ADJUSTMENTS



The two-stage match trigger is factory set for optimum use but can be adjusted to suit individual preferences.

The trigger grip can be adjusted length ways, sideways and swivelling using the adjusting screws (see drawing). In the interests of safety, take care not to overlighten the trigger load.

Note: The rifle must never be loaded or cocked when carrying out trigger adjustments.

The butt plate can be adjusted for elevation to suit your individual preference. Loosen the central locking screw and find the position that best matches your ideal sighting and comfort. Tighten the screw and lock plate

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. Use only Molykote 111 grease where necessary.



BSA GUNS (UK) LTD

Armoury Road, Birmingham B11 2PP, England

Tel: +44 (0) 121 772 8543 Fax: +44 (0) 121 773 0845

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

www.bsaguns.com