

BSA

Techstar

Professional Precharged Hunting Rifle



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.

RIFLE DESCRIPTION.

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

- Adjustable two stage LS trigger.
- Drop lever loading.
- Micro Movement Cocking (MMC).
- True tapered choked barrel as proven on the superTEN.
- Power adjustment facility.

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.

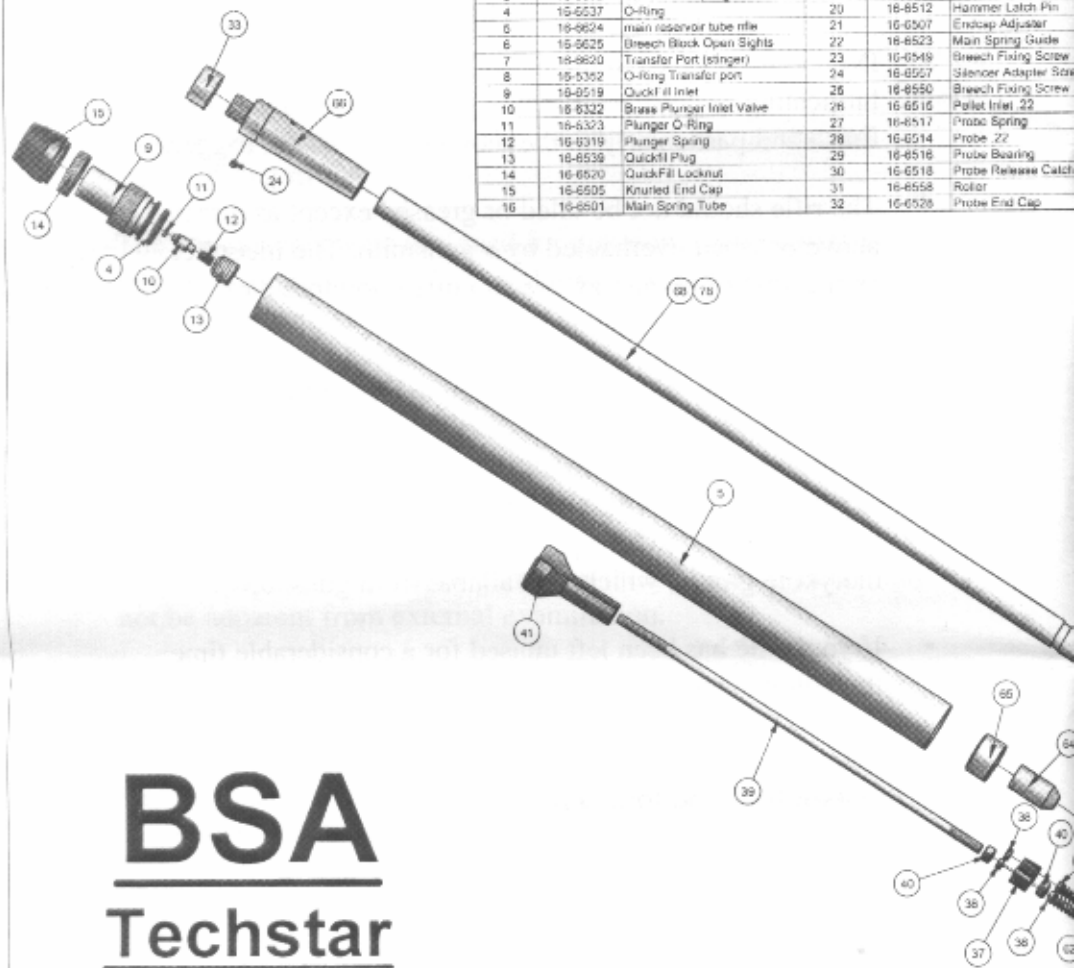
Failure to keep your air rifle in proper working order can lead to a potentially dangerous condition.

After 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.

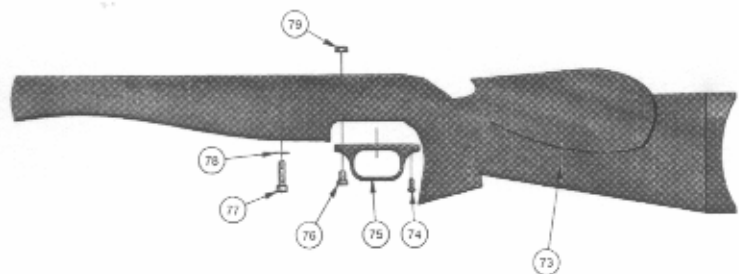
- Do not use oil containing SILICON for wiping metal or lubricating moving parts. Damage can occur to the surface finish and particularly to the moving parts of the trigger.
- The rifle should not be oiled or greased except as directed above or when overhauled by a gunsmith. The incorrect application 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.

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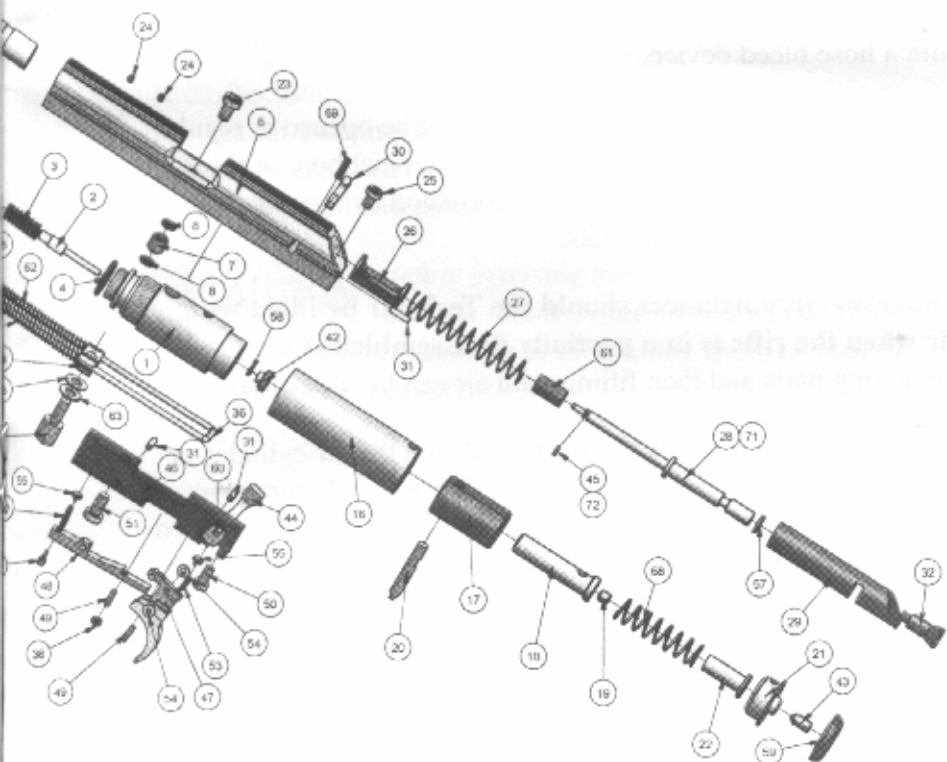
ITEM	PART No	TITLE	ITEM	PART No	TITLE
1	16-6506	Valve Sealing	17	16-6511	Hammer Bearing
2	16-6515	Knockoff Valve	18	16-6521	Hammer Weight Spring
3	16-6502	Valve Stem Spring	19	16-6542	Hammer Grab Screw
4	16-6537	O-Ring	20	16-6512	Hammer Latch Pin
5	16-6524	main reservoir tube rifle	21	16-6507	Endcap Adjuster
6	16-6525	Breech Block Open Sights	22	16-6523	Main Spring Guide
7	16-6520	Transfer Port (singer)	23	16-6549	Breech Fixing Screw
8	16-6362	O-Ring Transfer port	24	16-6527	Stenoer Adapter Screw
9	16-6519	Quick fill inlet	25	16-6550	Breech Fixing Screw
10	16-6322	Brass Plunger Inlet Valve	26	16-6516	Probe Inlet 22
11	16-6373	Plunger O-Ring	27	16-6517	Probe Spring
12	16-6319	Plunger Spring	28	16-6514	Probe 22
13	16-6536	Quickfill Plug	29	16-6518	Probe Bearing
14	16-6520	Quickfill Locknut	30	16-6518	Probe Release Catch
15	16-6505	Knurled End Cap	31	16-6558	Rotor
16	16-6501	Main Spring Tube	32	16-6526	Probe End Cap



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Techstar



ITEM	PART No	TITLE	ITEM	PART No	TITLE	ITEM	PART No	TITLE
33	16-6546	Blender Adapter Cap	49	16-6569	First Pull Adjuster	65	16-6622	Knockoff Retainer Cap
34	16-6532	Push Bar Holder	50	16-6551	Trigger Plate Screw	66	16-6626	Blender Adapter Open Sight
35	16-6533	Linkage Fixing Bolt	51	16-6552	Trigger Plate Screw	67	16-6609	Rifle Barrel 22
36	16-6525	Cocking Push Bar	52	16-6574	Seal Spring	68	16-6618	Hammer Spring 22
37	16-6526	Rod Connector	53	16-6572	First Pull Spring	69	16-6557	Release Catch Spring
38	16-6555	M3 Nut	54	16-6576	Trigger Spacer	70	16-6612	Rifle Barrel 177
39	16-6638	Main Rod	55	16-6585	Spring Guide	71	16-6603	Probe 177
40	16-6556	M5 Nut	56	16-6588	Trigger Weight Screw	72	16-6604	Probe O-ring seal 177
41	16-6531	Cocking Knob	57	16-6577	Probe Damper	73	16-6635	stock
42	16-6522	Valve Seating Bush	58	16-6672	Valve Stem Seal	74	16-6593	Trigger Guard Screw
43	16-6564	Adjuster Screw	59	16-6530	Endcap Cover	75	16-6528	Trigger Guard
44	16-6529	safety plate	60	16-6591	Safety Pivot Pin	76	16-6549	Blanch Fixing Screw
45	16-6560	Probe O-Ring Seal 22	61	16-6611	Probe Spring Guide	77	16-6596	Stock Fixing Bolt
46	16-6619	Trigger Plate (Stinger)	62	16-6636	cocking return spring	78	16-6594	Washer
47	16-6509	Trigger	63	16-6594	Washer	79	16-6595	Trigger Guard Nut
48	16-6508	Seal	64	16-6623	knockoff restricter			



GETTING STARTED

Using Compressed Air

The maximum charging pressure for the Techstar is 232 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 Techstar 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 Techstar 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.

Method of Charging the Techstar

The rifle is supplied with a probe which is fitted with two O rings and this should be screwed on to the end of the hose attached to the large cylinder. In the bore of the probe is fitted a throttle screw which acts as a safety device to restrict the air flow should an O ring fail on the probe.

CAUTION *This throttle screw must not be removed from the probe under any circumstances. It must be firmly screwed down when fitted to a large cylinder. However it can be slackened off if it is being used with a pump, to allow easier air flow.*

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 Techstar'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.

CAUTION *Before inserting the probe into the rifle, the O-rings on the probe should be carefully examined and if any damage is evident the O-rings must be changed before continuing.*

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.

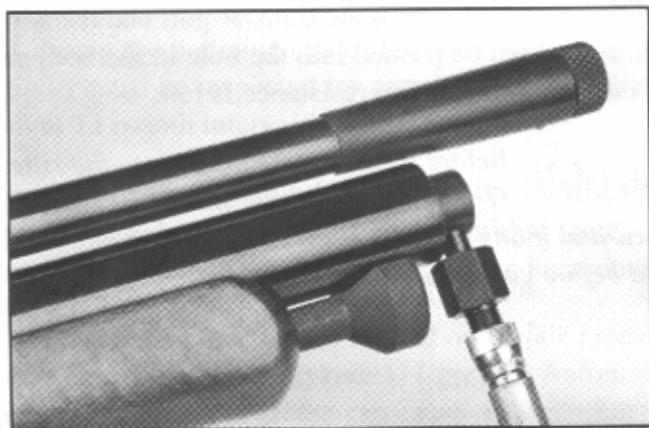


Do not over charge the rifle as this may be dangerous. Doing so will not give any better results and will damage the rifle.

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

Screw back on 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.



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

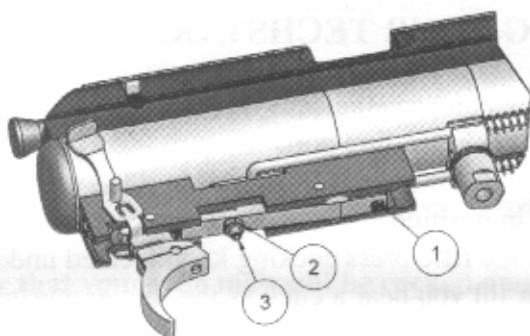
LOADING YOUR TECHSTAR.

1. Push down on probe release catch.
2. Place pellet in loading port.
3. Push probe forward until the release catch pops up and holds it in position.
4. To cock the rifle press cocking knob located under the reservoir till you hear a click as the trigger engages.
The Techstar has been designed so that it can be cocked easily at the moment you choose to shoot with a minimum of movement that might alert your quarry.
5. Cock the rifle only when you are ready to shoot; you should never walk around with the gun cocked and loaded.
6. Should you require to de-cock your rifle, push the cocking knob in and hold firmly, pull trigger and slowly release knob until it is back in the rest position.



TRIGGER ADJUSTMENT.

The BSA Techstar trigger is factory set. Should you wish to adjust the trigger remove the action from the stock to gain access to the adjusting screws. Please note that the rifle should never be loaded or cocked when trigger adjustments are made. When adjusting the sear engagement screw (3) ensure there is sufficient engagement with the hammer.



- 1) Trigger pull weight
- 2) Sear engagement screw locknut
- 3) Sear engagement screw

POWER ADJUSTMENT

Remove gun from stock (73) and then remove end cap (59)
Place 3mm allen key into adjuster screw (43).
Turn clockwise to increase power
Turn anti-clockwise to decrease power

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

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