BSA

hornet

Professional Precharged Hunting Rifle

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ISSUE 6613

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

- Patented regulator SLC technology as used in the award winning superTEN.
- Adjustable two stage LS trigger.
- Drop lever loading.
- Micro Movement Cocking (MMC).
- True tapered choked barrel as proven on the superTEN.
- Quick-fill system.
- Maximum charging pressure 232 bar.

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.

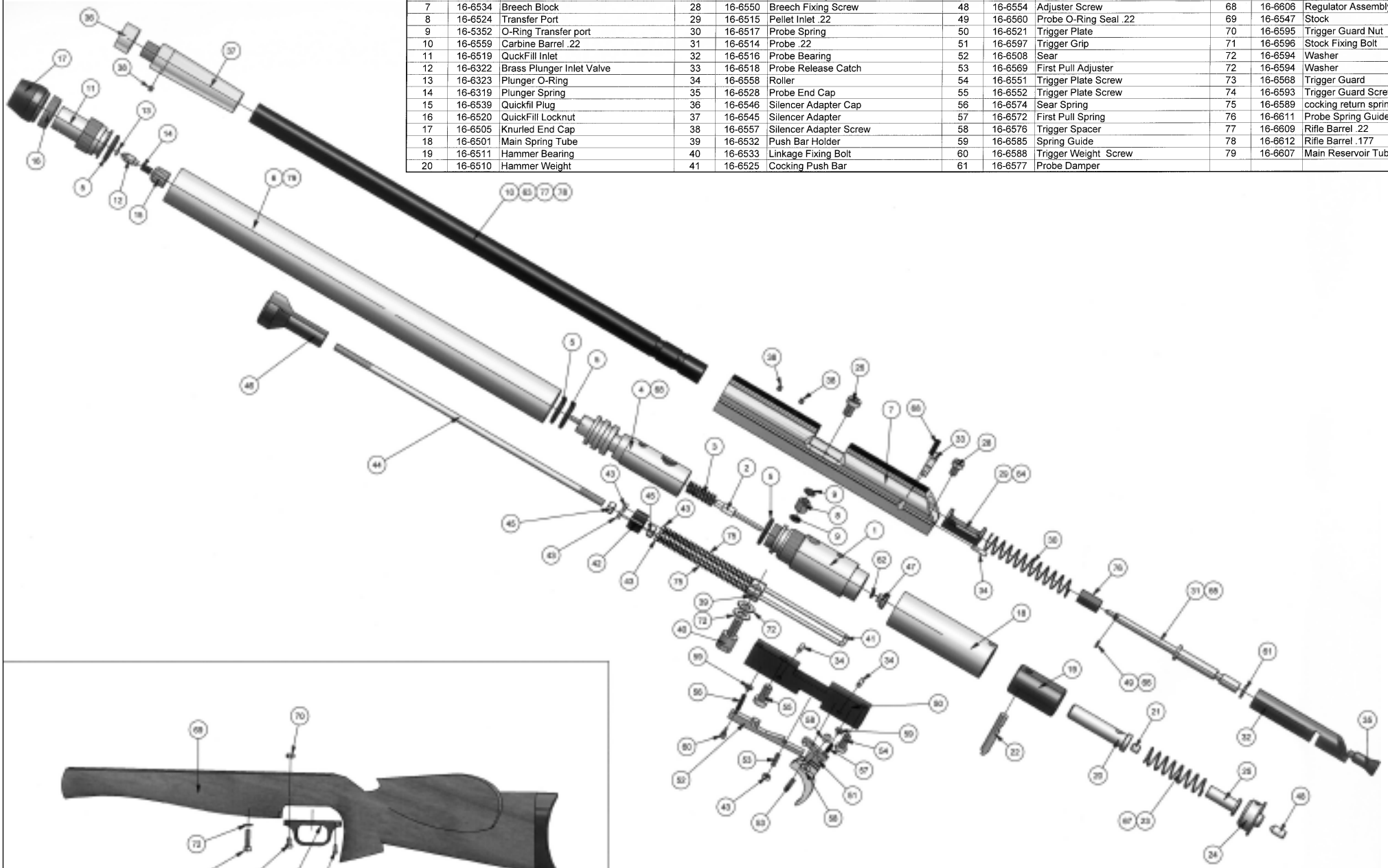
- Do not use oil containing SILICON for wiping metal or lubricating moving parts. Damage can occur to the surface finish and particularly to the moving parts of the trigger.

- 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	PART No	TITLE	ITEM	PART No	TITLE	ITEM	PART No	TITLE	ITEM	PART No	TITLE
1	16-6506	Valve Seating	21	16-6542	Hammer Grub Screw	42	16-6526	Rod Connector	62	16-6072	Valve Stem Seal
2	16-6057	Knockoff Valve	22	16-6512	Hammer Latch Pin	43	16-6555	M3 Nut	63	16-6601	Carbine Barrel .177
3	16-6092	Valve Stem Spring	23	16-6543	Hammer Spring .22	44	16-6527	Main Rod	64	16-6602	Pellet Inlet .177
4	16-6536	Regulator .22	24	16-6507	Endcap Adjuster	45	16-6556	M5 Nut	65	16-6603	Probe .177
5	16-6537	O-Ring	25	16-6523	Main Spring Guide	46	16-6531	Cocking Knob	66	16-6604	Probe o-ring seal .177
6	16-6500	Main Reservoir Tube (Carbine)	26	16-6549	Breech Fixing Screw	47	16-6522	Valve Seating Bush	67	16-6605	Hammer Spring .177
7	16-6534	Breech Block	28	16-6550	Breech Fixing Screw	48	16-6554	Adjuster Screw	68	16-6606	Regulator Assembly .177
8	16-6524	Transfer Port	29	16-6515	Pellet Inlet .22	49	16-6560	Probe O-Ring Seal .22	69	16-6547	Stock
9	16-5352	O-Ring Transfer port	30	16-6517	Probe Spring	50	16-6521	Trigger Plate	70	16-6595	Trigger Guard Nut
10	16-6559	Carbine Barrel .22	31	16-6514	Probe .22	51	16-6597	Trigger Grip	71	16-6596	Stock Fixing Bolt
11	16-6519	QuckFill Inlet	32	16-6516	Probe Bearing	52	16-6508	Sear	72	16-6594	Washer
12	16-6322	Brass Plunger Inlet Valve	33	16-6518	Probe Release Catch	53	16-6569	First Pull Adjuster	72	16-6594	Washer
13	16-6323	Plunger O-Ring	34	16-6558	Roller	54	16-6551	Trigger Plate Screw	73	16-6568	Trigger Guard
14	16-6319	Plunger Spring	35	16-6528	Probe End Cap	55	16-6552	Trigger Plate Screw	74	16-6593	Trigger Guard Screw
15	16-6539	Quickfil Plug	36	16-6546	Silencer Adapter Cap	56	16-6574	Sear Spring	75	16-6589	cocking return spring
16	16-6520	QuickFill Locknut	37	16-6545	Silencer Adapter	57	16-6572	First Pull Spring	76	16-6611	Probe Spring Guide
17	16-6505	Knurled End Cap	38	16-6557	Silencer Adapter Screw	58	16-6576	Trigger Spacer	77	16-6609	Rifle Barrel .22
18	16-6501	Main Spring Tube	39	16-6532	Push Bar Holder	59	16-6585	Spring Guide	78	16-6612	Rifle Barrel .177
19	16-6511	Hammer Bearing	40	16-6533	Linkage Fixing Bolt	60	16-6588	Trigger Weight Screw	79	16-6607	Main Reservoir Tube (Rifle)
20	16-6510	Hammer Weight	41	16-6525	Cocking Push Bar	61	16-6577	Probe Damper			



GETTING STARTED

Using Compressed Air

The maximum charging pressure for the Hornet 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 Hornet 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.

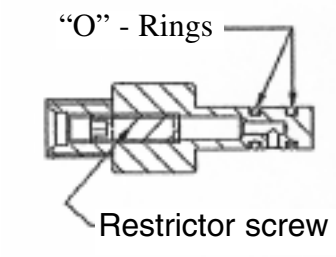
Under no circumstances should the Hornet be filled with air when the rifle is in a partially disassembled state. Removing parts and then filling with air can be hazardous.

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 Hornet

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 molycote 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 Hornet’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.

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.

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

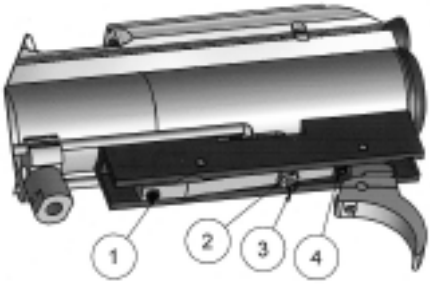
Always wear adequate shooting glasses whenever you are shooting and make certain that persons close to you are similarly protected. In addition to the obvious hazard associated with pellets damaging eyes, unprotected eyes may be injured by ricochets and debris flying off the target or backstop

LOADING YOUR HORNET.

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 Hornet 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 Hornets 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
4) 1st stage trigger adjustment screw

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