

INSTRUCTIONS FOR USE

Methods of Loading and Operation

These rifles are break action air rifles. To load them put butt against hip, grasp near forend and with other hand pull down barrel in an arc until it comes to a stop, now trigger has engaged. Whilst the barrel is in the broken down position the trigger operation is blocked. It will remain blocked until the pellet is loaded into the breech and the barrel is closed. Then the automatic safety is pushed forward in the trigger guard. The rifle is now ready to fire. The safety can only be reset by fully cocking the rifle again. DO NOT attempt to de-cock the rifle as this can cause damage.

WHEN COCKING THE RIFLE KEEP FINGERS AWAY FROM TRIGGER

Evolution Trigger Operation and Adjustment

All break action rifles from October 1994 are fitted with the Evolution Trigger mechanism. Designed by Theoben, based on a falling block system. This is a 2-stage unit with automatic safety. The second stage is adjustable for weight and travel. *Note: The automatic safety catch fitted from 1986 onwards.*

Forward of the trigger pull is a slotted screw adjustment. This screw moves the second stage position. Turn clockwise to increase engagement and anticlockwise to decrease. Move this adjustment ¼ turn at a time only. If turned too far clockwise this will block trigger until adjusted back anticlockwise. Second stage trigger pressure (weight) is adjusted by the allen grub screw found INSIDE the slotted screw, clockwise = heavier, anticlockwise = lighter again if this screw is turned in too far clockwise the trigger will be blocked until it is backed off.

Scope Mount

A bolt on scope mount, engineered precisely on the centre line of the rifle is used. The mounts are 'keyed in' so scope shift cannot happen. Combined with an individually hand fitted break action breech assembly, we guarantee a very high degree of accuracy will be achieved. So just zero your scope (or we can supply a Simmons) and forget it. The scope will stay put. The mounts suit scopes up to 45mm. Large scopes will fit with our adaptors (up to 56mm). See separate leaflet for Dampa Mount, available from Theoben. The Evolution rifle is the first of our models to have a dovetail arrangement grooved in the top of the action. This means a one-piece mount can be fitted or a Dampa Mount.

Fitting and Setting the Telescopic Sight

Using ¼ inch cap head screws in lower half of mount, bolt to ramp using the key supplied. Lay scope in fixed half and refit top halves, do not tighten at this stage. Check that cross (reticule) is vertical, and that the eye relief is correct. This is when the gun is in the aiming position and the view through the scope gives a full picture without moving one's head from this position. Adjustment is by moving scope forward or back until a full view is achieved. Now tighten the 4 cap head screws, applying even pressure front to back, and side to side. These mounts are machined from Duraluminium, so avoid over tightening as this can result in damage to the scope. Set sights as per the scope makers' instructions.



Power (UK Legal Limit)

We have set the power of each individual rifle to perform to the legal limit. Remember, the power you experience when the rifle is new will remain throughout its effective life.

Evolution, Fenman & Sirocco 2000		12ft/lbs	FAC version		
.177	Crosman Premier	820 fps	940 fps	=	15.5 ft/lbs
.177	H & N FT Trophy	800 fps	915 fps	=	15.4 ft/lbs
.20	Crosman Premier	610 fps	755 fps	=	18.1 ft/lbs
.20	Bisley Pest Control	648 fps	800 fps	=	18.0 ft/lbs
.22	H & N Trophy	610 fps	815 fps	=	21.1 ft/lbs
.22	Crosman Premier	610 fps	815 fps	=	21.1 ft/lbs

Eliminator & Crow Magnum		FAC
.20	Crosman Premier	880 fps
.22	Bisley Magnum	770 fps
.22	H & N Trophy	950 fps
.25	Bisley Superfield	750 fps
.25	Milbro Rhino	900 fps

Any adjustments made to the power should always be carried out in conjunction with a good quality Chronograph.

Please note; our 12ft/lbs break barrel air rifles can not be uprated to FAC. Also, (in the UK) if an air rifle is registered as a firearm it cannot be derated to 12ft/lbs. Once a firearm it is always a firearm.



Vortex Silencer

Barrel and Finishing

All Theoben rifles are fitted with German barrels machined to 16 inches or 10 ½ inches long (7 ½ inches for Carbine). The muzzle is choked so enhancing accuracy with a wide range of pellets. Metal parts are finished in traditional gun black, as used on expensive shotguns. So a wipe over with an oiled cloth is all it needs to stay looking like new.

For your records

Please read this instructional information sheet, fill in this section and keep it safe for future reference.

Gun Number -

Date Purchased -

Retailers Details -

Do not hesitate to contact us for more information on this or any of our products. Or visit our website for information downloads and full colour photos, prices and links to other sites of interest.

<http://www.theoben.co.uk>

The makers retain the right to change specifications without prior notice.

May 2003

ba_ff

The Theoben

H.E. System (High Efficiency)

**Evolution, Fenman & Sirocco 2000
FAC Eliminator & Crow Magnum**



- ⊕ Break Barrel
- ⊕ H.E. gas spring air rifle
- ⊕ 12 ft/lbs and FAC
- ⊕ .177, .20, .22, .25 cal
- ⊕ Anschütz & Walther barrels
- ⊕ Fitted with patented Zephyr piston crown
- ⊕ Fitted with patented Floating Inertia
- ⊕ Evolution trigger
- ⊕ Ultra-low recoil



Theoben Limited
West Newlands
Somersham
Cambs. PE28 3EB
England
Tel : 01487 740744
Fax : 01487 740040
<http://www.theoben.co.uk>
theoben@zetnet.co.uk

.25 cal - 30 ft/lbs .22 cal - 28 ft/lbs .20 cal - 26 ft/lbs



Eliminator with Evolution Silencer

Eliminator fitted with Dampa Mount as Standard

The Theoben H.E. gas spring system is good for tens of thousands of shots, with no change of power, unlike a coil spring that weakens from day one, so you can leave the rifle cocked for as long as you like with no worries about it wearing out or loss of power over time.

INTRODUCING THE H.E. SYSTEM

Welcome to our generation of air rifles fitted with the H.E. (High Efficiency) system. This is what the serious hunter has been waiting for. Stroll around your favourite shoot with the rifle cocked, ready for that moment of instant action. No need to worry about springs being left coil-bound, the Theoben system does not have that problem. No need to worry about wasted shots, one stroke to re-cock and you're back in action. Not like a pump-up that tires out the shooter in between shots. Also we do not have cartridges that need filling each shot. The power in our gas ram is always available. We are serious air rifle users and we have engineered this weapon for maximum shooting and minimum maintenance!

All our break barrel rifles now have the advantage of the Theoben H.E. System. This dramatically reduces the cocking effort without any loss of performance. 12ft/lbs rifles are built with the ultra short stroke of 2.2 inches for lightening fast lock time and very low cocking effort. Ideal for precision shooting out to 50 yards or more, providing the quality pellets we recommend are used. The Eliminator produces the highest power - over 30 ft/lbs energy. These rifles need a UK Fire Arms Certificate or can be used overseas if no maximum limit is set.

The advantages of the Theoben H.E. System

1. The main benefit must be the consistency of power, because the system is sealed, then each time the rifle is cocked the same air pressure is used over and over again.
2. This means that precisely 12 ft/lbs in .177, .20, .22 or .25 cal's can be set & maintained for thousands of rounds with no maintenance.
3. The gun can be left cocked whilst hunting, something not recommended with a spring rifle, due to spring fatigue.
4. The rifle has a very low cocking effort.
5. The action is quicker than a spring rifle.
6. Very low recoil and very quiet action.
7. It still has a one stroke cocking, unlike a pump-up rifle.
8. Theoben break action rifles are self-contained. They do not rely on external power for their operation.
9. Individually hand finished for supreme accuracy.
10. They are about a pound lighter than comparable spring rifles.
11. Our system is totally reliable and our rifles are used world wide.
12. The scope mount ramp built onto the rifle permanently, so scope shift is a thing of the past. (Except for the Evolution rifle - which can be fitted with a one piece dovetail mount or Dampa Mount.)
13. All Theoben rifles are made from traditional gun makers materials externally, housing our unique system of power that incorporates many features of the latest technology.

H.E. SYSTEM PATENTS

Theoben Gas Ram - Patent Nos. GB 2084704, P3211535.0, USA 552457
Inert gas (or air) is used to form an air spring behind the piston, producing the quickest lock time of any rifle combined with an outstanding shot to shot consistency.

Zephyr Piston Crown - Patent Nos. GB 2173287, P3610885.1, G8608747.9, USA 846708

This is another unique invention by Theoben. We discovered by cutting special shaped grooves in the face of the piston crown, more power and consistency was immediately obtained. This is because, all the air that is compressed during the firing cycle is jetted through the transfer port, to act on the pellet. With the help of the Zephyr grooves no air is wasted in turbulence, or by being trapped in front of the piston, the main cause of piston bounce.



Floating Inertia/Recoil Dampa Valve - GB 8700423, GB 8708206, EP 88300136, P 13513AU, US 4850329

We have patented the invention know as floating inertia. Its benefits are twofold. One is a great reduction in recoil and the other is an increase in power. We can now use a lightweight piston with the floating inertia (a sliding weight on the inside of the piston). When the lightweight piston reaches the end of its stroke instead of bouncing back, the sliding weight acts against the piston and keeps it in contact with the end wall of the chamber, so all the air that has been compressed must act on the pellet. The Eliminator has a recoil damper valve built inside the H.E. System. This allows fast forward movement of the piston but prevents any "bounce back", therefore no power is wasted.

Power Adjustments

Rifles built after number TB6000 will be powered by the H.E. system. This needs a lever type pump to achieve the higher pressure required in this type of rifle. Rifles will have H.E. stamped on the barrel to assist in identification. All power changes must be checked with a chronograph. The legal limit in the UK is 12 ft/lbs. It is the owners responsibility to abide by the law in other countries. Do not take any version rifle to higher performance than recommended by the makers, otherwise damage will result. The rifle could become harsh to use with the eventual result of the piston crown burning out. (see pump instructions leaflet for more info)

Do not operate action out of the stock, otherwise damage will result.

GENERAL MAINTENANCE AND TROUBLE SHOOTING INFORMATION

MAINTENANCE & RUST PREVENTION

Store rifle in a moisture free climate. Wipe all black steel surfaces with an oily cloth (clean car engine oil, WD40, LubroTeknik, etc) do not use silicone. Do not spray any substances directly on to the rifle.

The internal are sealed for life and should only be attended to by Theoben. Maintenance is therefore limited to a lubrication of the cocking linkage pins (located under the barrel). This can be done with heavy oil i.e. clean car engine oil. At no time should any of the original Theoben grease be removed unless at a similar Molybdenum based Grease be used. Under no circumstances should a petroleum based or silicone base Grease or oil be used.

Using normal lead pellets it will not be necessary to oil the barrel bore. This could allow oil to seep through to the air chamber via the transfer port. Thus producing violent dieseling, resulting in possible damage.

TROUBLE SHOOTING

Power failure

- ☞ Rifle lost pressure
- ☞ leaking from Schrader valve at rear of action
- ☞ o-rings inside the piston have failed

Low power

- ☞ Rifle over pressurised and piston crown burned out. Recoil increases, making the rifle hard to shoot.

Accuracy

- ☞ Not using the recommended pellets
- ☞ Mid weight pellets are most accurate in break action rifles ** We do not recommend using any plastic pellets in our rifles **
- ☞ Bent barrel, if accompanied by a cracked or broken stock usually means the barrel has slipped out of the users hands allowing the barrel to slam shut. The shock bends the barrel and usually breaks the stock
- ☞ Wrong calibre silencer fitted
- ☞ Dirty barrel - Napier cloth 'Pull Thru' kit available from Theoben
- ☞ Change rifle scope

Trigger

- ☞ The trigger is set in the factory to a fine but safe setting. It is not recommended to adjust it further. If adjustment is required screw **IN** for more engagement - ¼ of a turn at a time, then test, and readjust if necessary.
- ☞ Cocked but not firing
- ☞ incorrect adjustment
- ☞ factory grease removed

***** Never adjust a trigger when the rifle may be loaded *****

MISC

- ☞ Broken stock, if accompanied by a bent barrel usually means trigger was pulled before barrel was properly shut or the barrel was allowed to fly up.
- ☞ Bulging/misshapen action, rifle dangerously over pressurised.
- ☞ Cocking lever button broken, cocked without stock fitted.
- ☞ It should not be necessary to do, but if the need arises you will need to know that the bolt and barrel latch are lubricated with a Molybdenum loaded anti-suffing grease. The power unit is lubricated with about 2 ml of motor oil 20/50.