



**OWNERS MANUAL**

**FOR THE**

**FALCON RAPTOR MKII**



*Model shown is fitted with optional scope.*

## **Pneumatic Air Rifles.**

With proper care your Falcon air rifle will give you many years of fine reliable service.

PLEASE READ THIS HANDBOOK BEFORE OPERATING YOUR FALCON AIR RIFLE,  
IT IS AN IMPORTANT MAINTENANCE AND SAFETY GUIDE.

### **Remember.**

*Always treat your rifle as if it is loaded.*

*Never point your rifle at anyone even if unloaded or not cocked.*

*Always be sure of what lies beyond your target.*

*Always conduct yourself in a sportsmen like manner.*

*Treat all airguns with care. They are not toys and can severely injure yourself or others and cause damage to property.*

*Always be aware that your actions will be under the scrutiny of other members of the public who may not share your enthusiasm for air guns.*

*Bad practises promote bad publicity. Do not jeopardise your future enjoyment by misusing this gun.*

**Warning. Pre-Compressed Pneumatic (PCP) air guns work under very high pressure and must NOT be tampered with in any way.**

Falcon Airguns reserve the right to alter the construction, appearance or performance of any product without prior notification. All illustrations are for information only and do not necessarily show the exact model that was purchased.

## **Table of Contents.**

Section 1:	Charging the reservoir.....	Page 4.
Section 2:	Filling the magazine.....	Page 5.
Section 3:	Loading and firing multi-shot rifles.....	Page 6.
Section 4:	Trigger adjustment.....	Page 7.
Section 5:	Routine servicing.....	Page 8.

# Section 1.

## Charging the air reservoir.

**Please Note:** The recommended maximum charging pressure for your **FALCON RAPTOR** pre-charged air rifle is 2700psi (185bar). At this pressure you will attain the optimum number of shots for sporting purposes.

For FAC rated rifles, (rifles with a muzzle energy over 12ftlb), this pressure may be increased to 3000psi (205bar).

For target shooting a pressure of 2500psi (171bar) is suggested but some experimentation with the initial charge pressure is encouraged.

## How to charge the air reservoir

1. Remove the dust cover on the inlet valve at the front of the action. This can be found directly under the muzzle end of the barrel.
2. Ensure that the area around the thread and the charging hose, are completely free of dust and dirt. **Note:** It is recommended that a short blast of air is released through the charging set before connecting it to the rifle to remove any dust or dirt that may have accumulated in or around the connector. This will stop dirt entering the air reservoir and possibly fouling the valve seats.
3. Having ensured that the thread on your filling hose is 1/8" BSP, screw the female connector on the charging hose onto the inlet valve and tighten sufficiently to give a good seal. Fig 1. **DO NOT OVER TIGHTEN AS THIS COULD DAMAGE THE THREADS.**
4. Close the bleed valve on your charging kit and SLOWLY open the main valve on your bottle, allow the air in the reservoir to rise to the required pressure.
5. When the air pressure in the reservoir is at the correct level, close the main valve on your air bottle and open the bleed valve on the charging hose. Fig 2.
6. Disconnect the hose from the inlet valve.
7. Replace the dust cover on the inlet valve to keep out any dirt which could affect the valves operation.

Note: To keep the valves and seals of your rifle in the best possible condition it is recommended that pressure is maintained in the reservoir, even when it is not being used.



## Section 2.

### Filling the magazine.

1. To load the magazines, first open the breech by lifting the loading bolt handle and pulling rearwards. Fig 3.
2. Whilst holding the bolt handle back, slide the magazine out of the right side of the breech.



4. The pellets can now be loaded into the magazine, hold the magazine with the slot to the back and the indexing gear towards you. Fig 4.

5. Rotate the central drum clockwise until it comes to a stop with the figure 8 at the top. Fig 5. Feed the pellets into the empty chambers and then turn the drum anticlockwise to reveal the next empty chamber. When all 8 chambers are full the drum should continue to be rotated anticlockwise until it comes to a stop. The hole through which the pellets were loaded should now be partially blocked by the drum, this will stop the pellets from falling out.

Note: It is not necessary to line up the last pellet with the hole in the magazine body before it is loaded into the breech - this will be done automatically by the first cycling of the bolt.



## Section 3.

### Cocking and firing.

**Before cocking the action you must have the safety off.**

**Please read Section 2 Loading the magazine, before continuing.**

1. To load the magazine into the rifle: slide the bolt handle back along the long slot and lock it down into the small vertical gate.
2. The magazine can now be slid into the breech.
3. Lift the bolt handle, slide it forwards and lock it into the forwards vertical gate. **The rifle is now cocked and loaded.**
4. If you do not wish to fire the rifle immediately after cocking, *engage the safety* by pushing the lever alongside the trigger blade backwards. Fig 6. **Do not try to cock the rifle with the safety engaged.**

**Remember that the pellet will remain in the breech until the rifle is safely discharged**

5. To fire the RAPTOR, slide the safety lever forwards to disengage the safety mechanism.
6. To load and fire the second and all subsequent pellets, pull the bolt/cocking lever back



as far as it will go. About two thirds of the way back you will feel the tension on the lever become stronger as it engages the hammer. By continuing to pull the lever back to its limit you will cock the hammer.

7. Slide the bolt/cocking lever forward and lock it down. The RAPTOR is now ready to fire again.

**Note:** If the bolt/cocking lever is not pulled far enough back the hammer will not have engaged, but a pellet will still be loaded into the barrel. This will become apparent when there is no discharge when the trigger is pulled.

If this happens please follow this procedure.

- i. Pull the bolt/cocking lever back as far as it will go and lock it down.
- ii. Remove the magazine.
- iii. Slide the bolt/cocking lever forward and lock it down.
- iv. The action is now cocked and the pellet can be fired in the normal way.
- v. Repeat step i. and replace the magazine in the breech. This will return you to step 2 of 'Cocking and Firing'.

If this procedure is not followed, two pellets will become positioned in the barrel which can cause the barrel to become blocked when the rifle is next fired.

When all 8 pellets have been fired, the magazine will no longer rotate and the bolt/cocking lever will no longer slide forwards. When this happens, pull the lever back as far as it will go and lock it down. The empty magazine can now be replaced with a full one or reloaded.

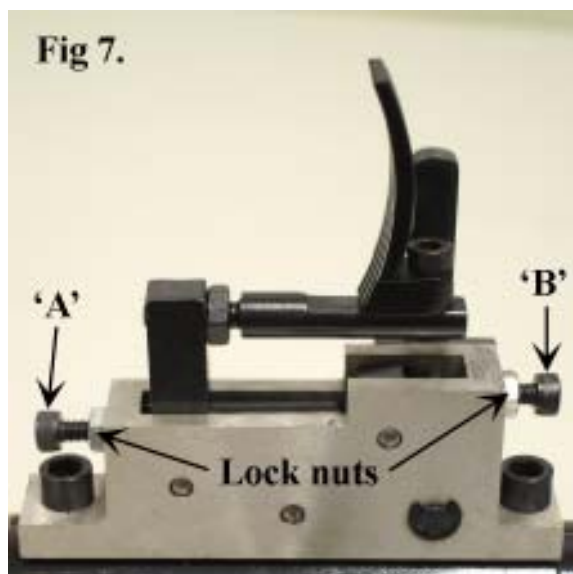
**NEVER FORCE THE BOLT/COCKING LEVER FORWARD AS THIS COULD DAMAGE THE BOLT AND/OR MAGAZINE.**

## Section 4.

### Trigger adjustment.

The trigger release pressure of the RAPTOR is factory set at 1400 grams (3lbs) approx. Match triggers, where fitted, are set at 750 grams (1 3/4lbs) approx. If further adjustment is required it is necessary to remove the action from the stock. This is achieved by removing the stock screw from the underside of the rifle.

1. To adjust the First Stage Pull slacken the locking nut on screw 'A' Fig 7, and adjust the screw either clockwise to reduce the length of pull or anticlockwise to increase the length of pull. Re-tighten the locking nut.



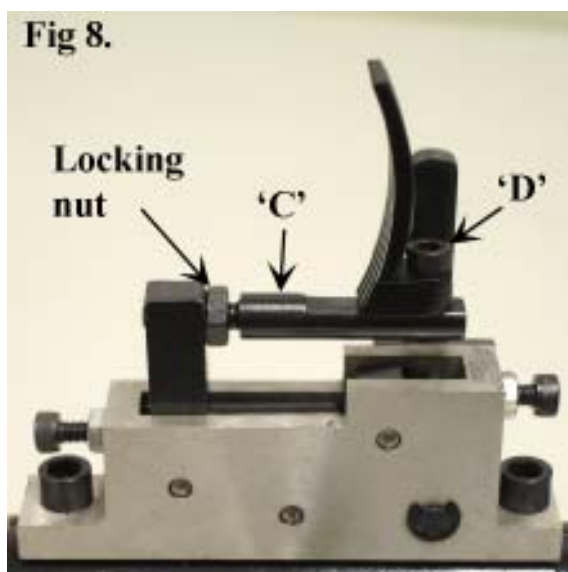
2. To adjust Trigger Release Weight, slacken the locking nut on screw 'B'. Turning this screw clockwise will reduce release weight and give a lighter pull. This adjustment should be done very gradually as too much adjustment, (below 500 grams), may cause the RAPTOR to fire accidentally if the rifle is dropped or jarred.

Re-tighten the locking nuts after any adjustment.

'Dry firing' will not harm the RAPTOR and should be carried out to check the trigger operation after any adjustment and before the action is returned to the stock. **MAKE SURE THAT THERE ARE NO PELLETS IN THE RIFLE WHEN DRY FIRING.**

If required the trigger blade can be repositioned forwards or backwards over a limited range by first removing screw 'D' Fig 8, and taking the blade off of the trigger bar 'C'. Now slacken the locking nut, Fig 8, and screw the trigger bar 'C' in or out as required. Once set re-tighten the locking nut and refit the trigger blade with screw 'D'.

The angle of the blade can be reset by slackening screw 'D' and turning the blade to the required angle then re-tighten screw 'D'.



## **Section 5.**

### **Routine Servicing.**

1. Always keep the surface of your rifle lightly oiled and remove all moisture and finger marks after use.
2. If the rifle has been used in wet conditions remove the action from the stock by unscrewing the allen headed bolts from the underside of the stock. Dry the action thoroughly and wipe it down with WD40 or a similar light oil.
3. Never put a damp rifle in a gun slip or bag.
4. To ensure that your rifle is maintained in the best possible condition we recommend that it is returned to your dealer or directly to the factory at least every two years for servicing.

**Your rifle has been manufactured using the best materials and assembled by our skilled and dedicated staff to give you many years of trouble free enjoyment.**

**All of us at FALCON wish you**

**GOOD SHOOTING.**

Falcon Airguns, Unit 6, Hailsham Industrial Park,  
Diplocks Way, Hailsham, East Sussex, England  
BN27 3JF.

Tel: 0845 6588616. Fax: 0845 6588617.

Website: [www.falcon-airguns.com](http://www.falcon-airguns.com)

Email: [sales@falcon-airguns.co.uk](mailto:sales@falcon-airguns.co.uk)

**Notes.**