

***Daystate***



**HR | HUNTSMAN**  
OFFICIAL HANDBOOK

[www.daystate.com](http://www.daystate.com)

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## Safety

### Be safe. Be responsible.

- Never point your airgun at anyone, nor at anything other than a legitimate target
- Always check your airgun is not loaded when you first pick it up
- Always treat your airgun as if it was loaded, even if you know it is not
- Never shoot on land where you do not have permission to shoot
- Always use a safe, large backstop to catch your pellets – and pay due attention to what is behind, should you miss
- Never leave your airgun unattended
- Always store your airgun and pellets securely and separately, so that no unauthorised person can access or use them
- Know and abide by the airgun laws in your country/state

## General Information

### Congratulations on choosing this fine Daystate precharged pneumatic (PCP) air rifle.

The HR Huntsman features an air-regulated action for improved performance, developed in partnership with the internationally renowned regulator specialist, HUMA-Air.

All rifles are UK-made to the highest quality standards. Before leaving the factory, each rifle is tested for power, consistency and pellet-grouping accuracy to ensure it meets the performance and reliability expected of an air rifle carrying the prestigious Daystate marque. We also ensure your rifle complies with the latest PCP safety and product-testing protocols.



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# Filling Your Rifle With Compressed Air

**Note: Do not use any other gas than clean, dry compressed air.**

Your Daystate PCP is filled with compressed air from a separate charging unit, either a scuba tank or manually operated stirrup pump. The rifle should be refilled when the needle on the rifle's main reservoir pressure gauge\* falls into the red area, so it is important to monitor this.

\* Note: There are two gauges on the HR Huntsman's action. The main reservoir air pressure gauge is situated under the muzzle and its needle will gradually move to indicate the reducing air pressure in the main reservoir. The gauge located under the forend, forward of the trigger guard indicates the fixed pressure of the regulator, which is independently set at the factory. The regulator's gauge DOES NOT indicate the status of the rifle's main air reservoir pressure.

- To access the rifle's filling valve, rotate the collar at the end of the cylinder to reveal the filler port.
- Having first checked the condition of the two O-rings on the filling probe, insert the probe fully into the port
- To fill the rifle's main air reservoir with compressed air, ensure the charging unit's 'bleed' valve is closed and then either:
  - (Scuba tank) SLOWLY open the unit's main valve
  - (Stirrup pump) Begin pumping
- Note the pressure indicated by the main reservoir pressure gauge. You should fill the rifle to the following charging pressures:
  - Maximum 250BAR (3,625psi)
  - **IMPORTANT: Use ONLY clean, dry, compressed air**
  - **Do NOT charge the rifle with more than the stated amount**
- Once the correct pressure has been reached, either:
  - (Scuba tank) Fully close the main valve
  - (Stirrup pump) Stop pumping
- Then open the charging unit's bleed valve to rapidly bleed off the remaining air in the filler hose
- Remove the filling probe and rotate the collar to cover the filler port





# Loading Your Rifle - Single Shot and Multi-Shot

The HR Huntsman can be fired in single - or multi-shot modes; each loading method requires the rifle to initially be cocked by lifting up and pulling back fully the bolt at the rear of the breech. In single-shot mode, a loading tray is placed in the breech to facilitate hand-loading into the breech for each shot. Multi-shot mode uses a removable, spring-operated, rotary magazine to automatically present pellets to the breech, and therefore allows quicker shooting.

## IMPORTANT:

- To prevent damage to the rifled barrel, only use soft metal pellets
- Keep the muzzle of your air rifle pointing in a safe direction at all times
- Always ensure the last shot has been fired from the barrel before finishing the shooting session, especially when multi-shot mode has been deployed

## SINGLE SHOT

- Engage the safety catch at the rear of the action by rotating anti-clockwise
- Cock the action by lifting up the bolt and drawing it back fully
- Insert the magnetic single-shot tray into the breech block, with the locating pins to the rear
- Check that the pellet is not deformed and using the channel as a guide, manually seat it, nose first, into the barrel
- Push the bolt all the way forward and lock it down to fully breech the pellet
- **THE RIFLE IS NOW LOADED**
- Disengage the safety catch (rotate clockwise) and squeeze the trigger to fire the rifle



## MULTI-SHOT MAGAZINE

- Engage the safety catch at the rear of the action by rotating anti-clockwise
- Cock the action by lifting up the bolt and drawing it back fully
- Lift out the single-shot tray (if fitted) or extract the magazine
- MAGAZINE – REMOVAL AND LOADING**

- Extract the magazine from the side of the breech\*
- Push a pellet, nose first, into the empty chamber at the base of the magazine. Press it in place fully, so that the pellet's head seats past the O-ring gripper and its skirt does not protrude
- Rotate the magazine drum anti-clockwise to expose the next empty chamber and load another pellet. Repeat until all chambers are loaded

- Slide a loaded magazine into the breech
- Return the sidelever to the fully closed position to breech the first pellet

### • THE RIFLE IS NOW COCKED AND LOADED

- Disengage the safety catch (rotate clockwise) and squeeze the trigger to fire the rifle
- Recycling the bolt will cock the rifle and allow the magazine to automatically index; the next pellet will be breeched on the bolt's return. Always ensure the bolt is fully closed before firing
- Notes:
  - A dot is visible on the left side of the magazine drum to indicate the final chamber
  - It is possible to remove and 'top-up' the magazine should you wish
  - The magazine will index each time the bolt is cycled. Avoid operating the bolt without having first fired the rifle as this will result in a 'double-load'
  - The rifle can be 'dry fired' (no pellet in the breech) without any mechanical damage occurring, providing there is enough air in the main cylinder

\*The side from which the magazine inserts/removes is a dealer-specified option; it can be either from the left or right, determined by the magazine itself. Should you wish to swap the loading side, a new magazine will be required.



## PELLET RECOMMENDATIONS

The power, accuracy and consistency of your Daystate air rifle relies on the quality of the pellets used, so inferior brands should be avoided. Additionally, the Daystate magazine has been specifically engineered to operate with waisted roundhead pellets. If other pellet shapes are used, it may not index properly and could possibly jam. Daystate recommends the following, in order of preference, for HR Huntsman models:

### Models up to 12ft/lbs power rating:

Rangemaster Sovereign; Rangemaster Kaiser

### Models up to 30ft/lbs power rating:

Rangemaster Sovereign; Rangemaster Kaiser

### Models up to 40ft/lbs power rating:

Rangemaster Monster; Bisley Magnum; JSB Exact Jumbo and Heavy



# Trigger Adjustment

The HR Huntsman is fitted with a two-stage match trigger which has been expertly set at the factory for a safe, crisp let-off. While the end-user can adjust the trigger for personal preferences with a 1.5mm hex key, it is highly recommended that this is done in conjunction with a qualified gunsmith or Daystate agent. It is easier to make trigger adjustments with the stock and trigger guard removed.

## First stage adjustment:

The amount the trigger blade travels before stopping at the second stage 'stop' point can be altered. Turn adjustment screw [A] anti-clockwise to increase the amount of first-stage blade travel. Turn it anti-clockwise to decrease the amount of first-stage travel.

**Important - After carrying out trigger adjustment, it may be necessary to adjust the bolt [E] to ensure correct operation of the safety catch.**

## Second stage adjustment:

The feel of the trigger's break-point (the 'second stage') can be altered to suit personal preference by removing the locking grub screw [B] to reveal the adjustment screw [C]. To increase the sear engagement, turn the adjustment screw anti-clockwise. To reduce the pull weight, turn the adjustment screw clockwise.

**Important - Do NOT turn the adjustment screw too far clockwise as this may stop the rifle from cocking**

## Blade angle adjustment:

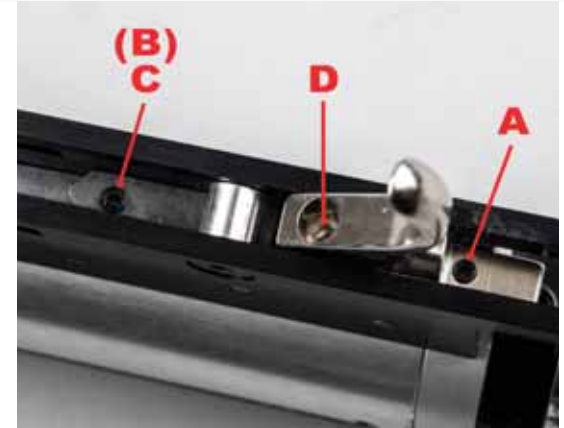
The angle at which the blade sits in the trigger block is set to approximately 90 degrees at the factory, but this can be altered to suit personal preference. Turn adjustment screw [D] clockwise to move the blade angle back. To increase the angle forward, turn the screw anti-clockwise.

**Important - If the blade angle is adjusted, the first-stage travel adjustment screw [A] may also need to be altered.**

## SAFETY CATCH - operation and adjustment

The HR Huntsman is fitted with a manual safety catch at the rear of the action. Rotate it anti-clockwise to engage it (safety 'on'). Rotate it clockwise to disengage it (safety 'off').

**Important: If the trigger's first stage and/or blade angle has been altered from the factory setting, ensure that bolt [E] is correctly adjusted to ensure the correct action of the safety catch.**



# Fitting a Rifle Scope

For maximum accuracy, your Daystate rifle requires a separate riflescope (telescopic sight) to be mounted, although other sights (eg: red-dot, reflex, night-vision) may also be used. Daystate recommends riflescopes from MTC Optics ([www.mtcoptics.com](http://www.mtcoptics.com)), and two-piece BluePrint mounts. You should choose your scope and mounts with due consideration to the rifle and your shooting needs.

## Attaching the mounts

Note: Select a scope mount with the correct clamp/height/ring size

- With the top straps removed to expose the mount cradles, position the mounts on the rifle's dovetails in a position that allows the correct eye-relief of the scope when you are aiming the rifle
- Ensure the saddle of the scope does not interfere with the magazine when it is inserted into the breech
- Attach the top straps, but only nip-up their bolts finger tight; just enough to stop the scope turning freely, but still allow it to be rotated by hand

## Aligning the crosshair

- Using a gun-vice or similar, place a spirit level across the rifle's breech block to ensure it is level
- Look through the scope and rotate it until the crosshairs are perfectly vertical and horizontal. You can use a plumb line downrange as an aid
- Once the crosshairs are aligned to the rifle, tighten all the mount ring bolts to their recommended torque

## Zeroing the scope to the rifle

- In front of a safe, suitable backstop, set up a large paper target with a visible mark in the centre around 10 metres (12 yards) away. This may be closer than the distance you prefer to shoot at, but it is a method used to initially zero your rifle/scope
- Aiming at the mark, fire a few pellets and note where they land\*
- Turn the scope's elevation and windage turrets the required amount to move the group toward the aiming mark, and repeat the procedure until the shots impact roughly at the aim point
- Then move the target to your primary zero distance and fine-tune the scope's elevation and windage turrets until the combo is precisely zeroed-in

*\*NOTE: If the initial shots group more than 13cm (5ins) below the aim point, then the REAR mount may need to be 'shimmed' to provide enough adjustment on the scope's elevation turret. In this instance, place a sliver of silver foil, folded to a maximum thickness of 0.3mm, between the scope and the mount's lower cradle. Do not over-pack the mount, however, as this may damage the scope*





# Recommended Maintenance

Precharged pneumatic air rifles operate under extremely high pressures of compressed air, so can potentially become dangerous if not serviced correctly. There are no user-serviceable parts on a Daystate PCP, so any gunsmith work should **ALWAYS** be carried out by a factory-trained technician. Correct and regular maintenance also ensures your rifle will operate at peak performance. We therefore recommend that the rifle be returned to the factory or a Daystate-approved agent for a routine service **every three years**.

Between service intervals, however, you can keep your rifle shooting trouble-free by paying due attention to the following areas:

## AIR RESERVOIR

The steel under-barrel air cylinder used on the HR Huntsman models will withstand pressures many times the working pressure of the rifle. However, the rifle should be returned to the factory or approved agent for them to be inspected every **10 years**.

## CHARGING UNIT – HAND PUMP

A hand-operated stirrup pump offers an inexpensive and convenient method of charging your rifle. However, as most do not contain water extraction and dirt removal systems, they can shorten the life of sealing valves and O-rings. If you regularly use this type of charging unit, care should be taken to avoid condensation build-up from inside the pump being transferred to the rifle. The pump should not be used in sandy or dusty conditions. Always refer to the pump manufacturer's operating instructions.

## CHARGING UNIT – SCUBA TANK

If you use a scuba tank to charge your rifle with compressed air, make sure you open its main valve slowly when transferring air from the tank to the rifle's cylinder. Keep all charging connectors clean and free from oil. Handle the charging unit carefully always, and **NEVER** blast high pressure air directly onto your skin.

## CHARGING UNIT – COMPRESSOR

There are now electronic and petrol-engine compressors that can deliver breathing quality air. While these are suitable to directly fill your Daystate PCP, ensure that you do not inadvertently fill your rifle's cylinder with more than the recommended pressure.

## ACTION

After every shooting session, protect your rifle's metal parts with a corrosion inhibitor specifically for gun use. Apply the oil to a cloth and wipe over the gun. **NEVER** pour oil into the rifle's filler valve.

## LUBRICATION

To maintain smooth cocking, sparingly lubricate the shaft of the bolt with a light grease periodically, but do not allow any grease to get into the barrel. Wipe over the action with an oily rag (see above), but never oil any internal parts.

## BARREL CLEANING

For optimum performance, the barrel rifling should be periodically cleaned using felt cleaning pellets lubricated with a light-grade oil. Avoid the use of nitro-based cleaners as their chemicals can damage seals. The cleaning frequency depends on the pellets used and the individual barrel, but as general rule, do it each time you begin a new tin of pellets.

## STOCK

The HR Huntsman's walnut stock can be maintained with a suitable stock oil or boiled linseed oil. To remove the HR Huntsman's stock (eg: for trigger adjustment), use a 5mm hex key to undo the single bolt located forward of the trigger guard.

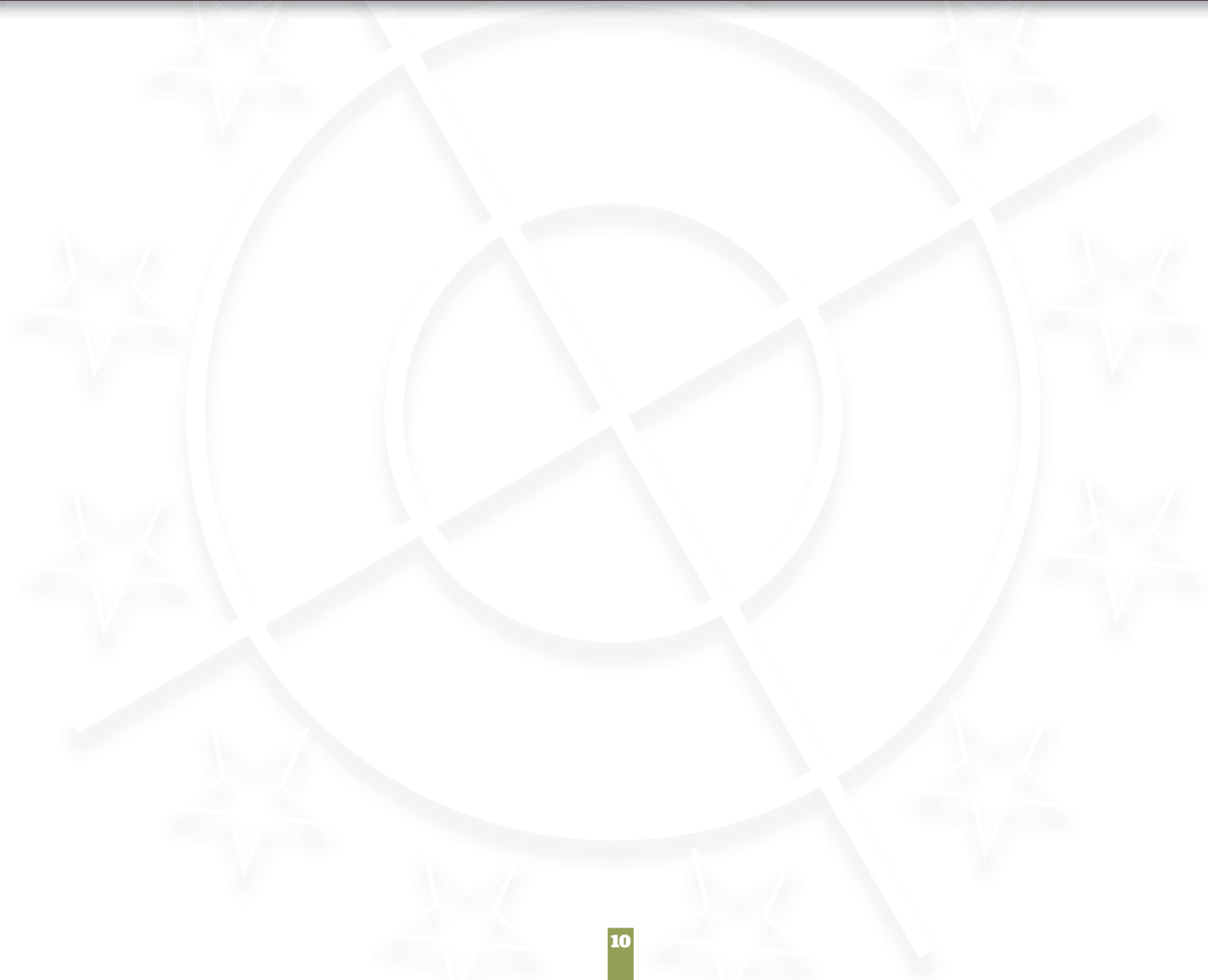
**More servicing information can be found online at**  
***[www.daystate.com/support](http://www.daystate.com/support) and [www.daystateownersclub.com](http://www.daystateownersclub.com)***



# General Assembly



# Notes



# Your Daystate Warranty

## 3 YEAR WARRANTY

- All new Daystate rifles are guaranteed against faulty parts and labour for a period of three years from date of purchase (proof of purchase required). The warranty applies to the first purchase of a new rifle and is not transferable to subsequent owners
- After three years, it is recommended that the rifle be returned to Daystate or its authorised agent for a service, and subsequently every further three years
- Air reservoirs, regardless of type (cylinder/buddy-bottle) should be inspected by Daystate or its authorised agent after 10 years
- Daystate or its approved agent must carry out all maintenance and warranty work. The rifle must be maintained and used as outlined in this handbook
- Should a rifle be returned or collected under warranty, Daystate or its approved agent reserve the right to charge for postage and inspection costs.
- Servicing is charged at the prevailing rate

## EXCLUDED FROM WARRANTY

- Failure due to misuse or abuse, the fitting of non-standard parts, springs, seals, damage to stocks, batteries and fair wear and tear

While every effort has been taken to ensure the accuracy of the information in this handbook, Daystate or its agents cannot be held responsible for errors or omissions. Products are continually updated and specification may change without notice. You should check the Daystate website regularly for the latest information relating to your rifle model.



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