

Users Handbook X200



Shown with optional scope (Not supplied)

PLEASE READ THIS MANUAL BEFORE USING YOUR NEW RIFLE, IT CONTAINS IMPORTANT SAFETY INFORMATION AND INSTRUCTION ON ADJUSTMENT AND MAINTENANCE.

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Gun Security

It is important to make sure that your gun is always kept safely and securely when not in use.

For a rifle purchased in the UK and that is NOT FAC rated (high power) a free gun lock and mounting eyes are supplied. Please follow the simple fixing instructions and keep our sport safe.

Note: If there is no gun lock in the box, please contact the dealer you purchased the rifle from.



Safety First

- Always treat your air rifle or pistol as if loaded. Never assume it is clear. CHECK.
- When first picking an air rifle or pistol up, ensure it is not cocked or loaded.
- Never leave your rifle or pistol cocked or loaded.
- Never leave a cocked or loaded rifle or pistol unattended.
- Always point your rifle or pistol in a safe direction. Never point the gun at anyone.
- Always know the backdrop to your shooting. Make sure you know where your pellets are going.
- Be aware of ricochets.
- Always conduct yourself in a sportsman-like manner.

Be aware that your actions will be under the scrutiny of other members of the public who may not share your enthusiasm for air gun shooting. Poor practices promote adverse publicity. Do not jeopardise your future enjoyment by misusing this rifle.

Contents of the Box

- X200 rifle x 1
- Tool kit including manual x 1
- Filling adaptor x 1

Important Information

WARNING! - UNAUTHORISED DISASSEMBLY OF THIS RIFLE WILL INVALIDATE THE MANUFACTURER'S WARRANTY. THIS INCLUDES ANY ANTI-TAMPER DEVICES FITTED.

Before leaving the factory this rifle was quality inspected and test fired.

It was dispatched in a sealed, purpose-designed box. Air Arms may not be responsible for any damage to the contents or missing items if the box is not original, if it is damaged or if the seals are not intact.

Air Arms cannot be held responsible for damage or missing items due to transit damage, mishandling or being tampered with after leaving the factory.

If this rifle is not received in the original box with the seals intact, please examine carefully for any damage, missing tools, or documentation.

In the first instance, any problems or complaints regarding this product should be referred to the supplier.

The air cylinder is a highly pressurised unit that must not be modified in any way. Serious personal injury may result if this, and the advice below is not followed.

Important Information (Continued)

Do not pressurise the cylinder if there are any surface abrasions or dents. Contact Air Arms for advice.

Do not store the rifle in places with, or near sources of high temperature such as fires or boilers.

Air Arms recommend using a dry pack filter kit on any hand pumps used to fill our air rifles.

If accessories not manufactured by Air Arms are used on this rifle, Air Arms can not be held responsible for any loss of performance or damage to your rifle. Contact your supplier or Air Arms for any advice on this matter.

Do not store this rifle in a damp place such as a garden shed or garage.

Do not store this rifle in a plastic or PVC gun bag without first applying a surface corrosion inhibitor.

Always ensure the loading bolt is fully closed before firing.

Do not attempt to dismantle when pressurised.

The spring used to power spring power rifles can be under extreme tension. Do not dismantle the rifle without the correct equipment and knowledge.

Do not pressurize beyond the stated filling pressure (see filling instruction section). Damage caused by such action is not covered by the manufacturer's warranty.

Only use clean, filtered and dry compressed air. Never use any other gas, particularly industrial or welding gases such as oxygen, carbon dioxide, acetylene, hydrogen, argon, etc.

If compressed air is being used other than from a diving shop, the inside of the cylinder should be inspected for corrosion at least annually. If in doubt contact Air Arms for advice.

In any event, the cylinder should be inspected every two years. Air Arms can provide this service at a reasonable cost.

To maintain this rifle in good working order it should be serviced annually by a competent gunsmith, your supplier may be able to provide this service or contact Air Arms.

A reasonable amount of advice will be provided to enable the end user to service their rifle, however, this is at the discretion of Air Arms and may not be given in all cases.

The velocity of this rifle has been set using Air Arms Field pellets. If any other make or type of pellet is to be used the rifle must be re-tested, to ensure the muzzle energy is within the limits determined by current legislation.

Due to the nature of hand pumps and their relative inefficiency in removing moisture from the compressed air, the chances of corrosion damage to the cylinder and other internal components are increased. Therefore the rifle should be regularly serviced and/or checked for any signs of damage by a competent gunsmith.

When corresponding with Air Arms please quote the serial number of your rifle.

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CHECKING VELOCITY

- 1. Use a reliable chronograph to check velocity, (the formula below requires the reading to be in feet per second FPS)
- 2. Use fine measurement scales to weigh the pellet, If scales are unavailable the pellet weight may be stated on the pellet container lid or contact the supplier. (The formula requires the weight to be in grains). To convert from grams to grains multiply by 15.432, i.e. 0.69 grams x 15.432 = 10.65 grains.
- 3. To find the muzzle energy in ft/lbs use the formula (FPSxFPSxGrains)/450240, i.e. (700x700x10.65) = 5218500 divided by 450240 = 11.59.

CURRENT LEGISLATION LIMITS NON-FAC HOLDERS, IN THE UK, TO AIR RIFLES WITH A MAXIMUM OF 12ft/lbs MUZZLE ENERGY.

WARNING! IT IS A VERY SERIOUS OFFENCE TO BE IN POSSESSION OF AN AIR RIFLE THAT YOU ARE NOT CERTIFICATED FOR. CONVICTION CAN RESULT IN CONFISCATION OF YOUR RIFLE, A HEAVY FINE OR IMPRISONMENT, OR EVEN A COMBINATION OF ALL THREE.

***** LIMITED LIABILITY WARRANTY ***** UK Customers only.

The Air Arms warranty covers repairs free of charge if the item is up to 3 years old, from the date of purchase (UK only). The warranty covers faulty materials and workmanship, not reasonable wear and tear. The warranty applies to items purchased from new; proof of purchase is required. This cover is not transferable, therefore it applies to the original purchaser only. Please retain your receipt and register the warranty online at: www.air-arms.co.uk/warranty-submission.

What is covered

Replacement parts & labour on a 'back to base' basis, return transportation to the consumer (mainland UK only).

What is not covered

Transportation from the consumer to Air Arms.

Damage caused by misuse, abuse, lack of routine maintenance, transit damage between the dealer/supplier and the consumer or unauthorized disassembly.

Parts subject to normal wear and tear.

Any other consequential cost incurred by the consumer.

Return transportation to consumers outside mainland UK.

No warranty is implied as to the fitness for any particular purpose.



Introduction

Thank you for purchasing the Air Arms X200.

With the correct care, this rifle will offer years of reliable fun and service, we therefore request you read this manual completely before using your new purchase to get the most the rifle has to offer.

Finding the Serial Number

If you need to contact Air Arms regarding your X200, please quote the serial number. This can be found on the right hand side of the main body below the name panel at the front of the body. See the image below.

The X200 is a pneumatic-powered air rifle. There are three versions of this rifle; the Virtue, the Valour and the Vanguard. The virtue is a 10 m target rifle and is fitted with a removable cylinder. The Valour and Vanguard are 12ftlb and high-powered versions and are available with either a cylinder or bottle.

When corresponding with Air Arms please quote the serial number of your rifle.



Filling the Rifle

There are two versions of the X200 available, the Sporter version and the Target version. The sporter version can have either a cylinder or bottle fitted depending on the model. The Target version (The Virtue) will have a removable cylinder fitted with a gauge mounted in the end.

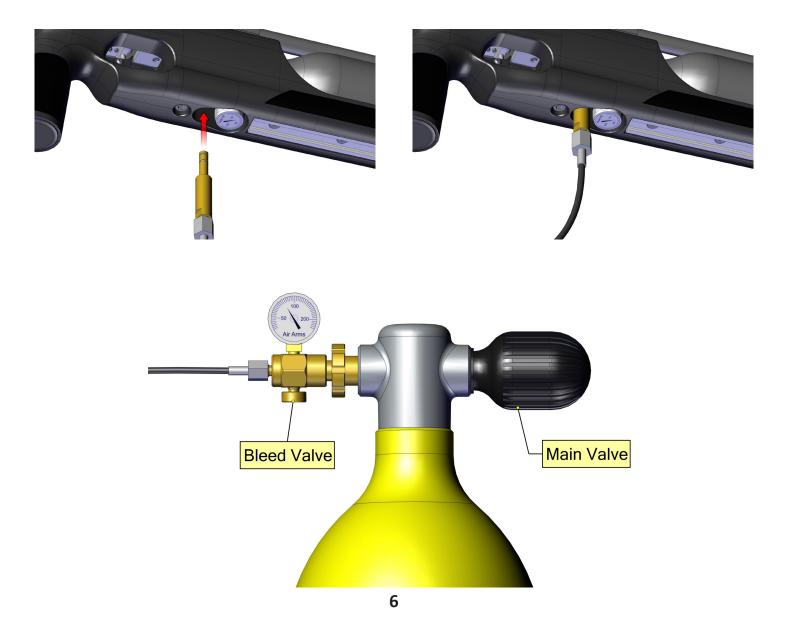
A refilling guidance table can be found at the end of this section.

Sporter Version

All types of the Sporter version of the rifle will be filled using a probe. The filling port can be found on the underside of the rifle next to the gauge.

- Screw the supplied filling probe onto your filling kit hose.
- Insert the probe into the filling port on the underside of the rifle.
- Make sure the bleed valve is closed on you kit, then SLOWLY open the main valve and allow the cylinder to fill to the required pressure.
- Close the main valve and then bleed the hose using the bleed valve on your kit.
- Now remove the probe from the filling port.

NOTE: The rifle is still cocked at this point. Discharge in a safe manner.



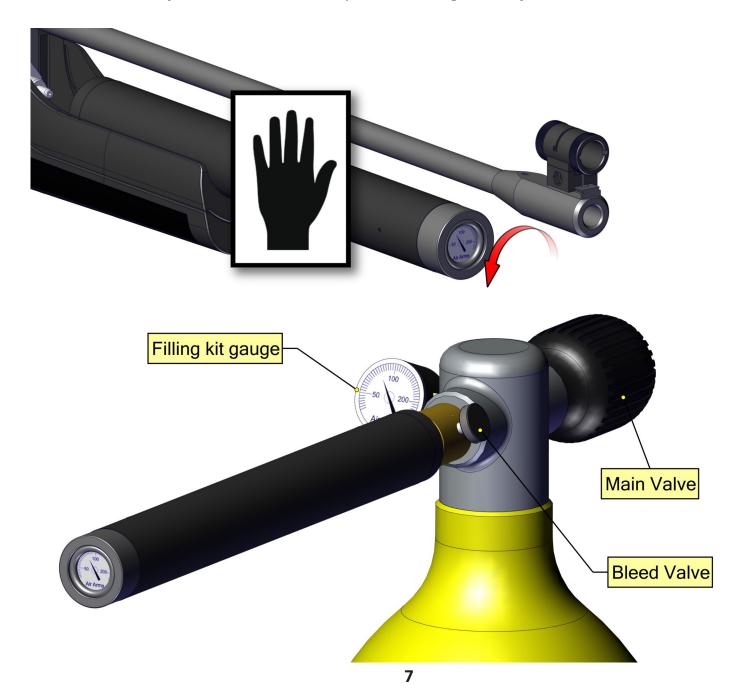
Target Version

The target version of the X200 Is fitted with a removable cylinder with a gauge mounted in the end.

To remove the cylinder from the rifle, by hand, unscrew it anti-clockwise and remove it from the rifle. There may be a release of air during this process, this is normal.

- Screw the supplied filling adaptor onto your bottle or pump.
- Screw the cylinder onto the adaptor. This only needs to be hand-tight.
- Make sure the bleed valve is closed on your kit, then SLOWLY open the main valve and allow the cylinder to fill to the required pressure.
- Close the main valve and then bleed the hose using the bleed valve on your kit.
- Unscrew the cylinder from the adaptor.
- With the rifle cocked and NOT loaded, screw the cylinder back onto the gun. There may be a small release of air during this procedure, this is normal.

NOTE: The rifle is still cocked at this point. Discharge in a safe manner.



Filling Pressure

Calibre	Power	Bottle/Cylinder	Refill when pressure is	Max fill pressure
	7 Joule	Cylinder	50 bar	150 bar
	STD	Cylinder	100 bar	160 bar
177	טונ	Bottle	100 bar	160 bar
	НР	Cylinder	120 bar	180 bar
	пР	Bottle	120 bar	180 bar
	STD	Cylinder	100 bar	160 bar
22	טונ	Bottle	100 bar	160 bar
22	НР	Cylinder	120 bar	180 bar
	ПР	Bottle	120 bar	180 bar

Filling the cylinder or bottle to more than the above pressures will not increase the power rifle and may reduce the power of the first shots until the recommended pressure is reached.

Filling if the Rifle is Empty

If the cylinder of the rifle is empty then the action MUST be cocked to refill it. Cocking the rifle removes the striker load on the valve and allows the air pressure to hold the valve closed. This also means the rifle is live so it is good practice to engage the safety.

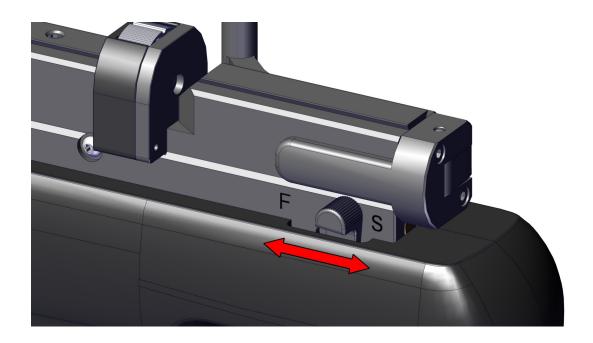
When filling from empty there will be a flow of air through the rifle until approximately 50-bar of pressure is in the cylinder. At this point, the air pressure closes the valve and the cylinder carries on filling to the required pressure. This passage of air sounds very dramatic but it is a very small volume of air.

This process can be difficult when using a hand pump but the process remains the same, carry on pumping until approximately 50-bar of pressure is in the cylinder.

Safety Button/Lever

The safety button is located on either side of the breech block just below the cocking lever. To operate the safety, push the lever forwards towards the 'F' to fire the rifle and rearwards towards the 'S' to engage the safety and stop the rifle firing.

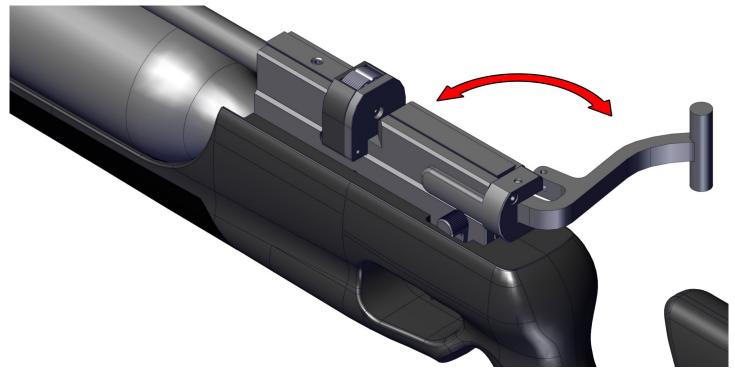
The rifle can be cocked whether the safety lever is in the safe or fire position. The safety on the X200 is NOT automatic so will not automatically set to safe during the cocking cycle.



Cocking the Rifle

To cock the rifle, pull the side lever back until it reaches its full travel. This will engage the striker and trigger components and make the rifle ready to fire. After a pellet has been loaded or the magazine has rotated, the lever can be closed and the rifle is ready to fire.

Take care the rifle is now LIVE.

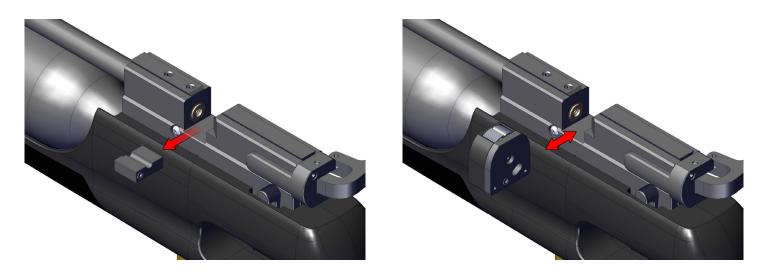


Loading Pellet Tray or Magazine

Changing Tray to Magazine

The X200 is supplied with a single pellet tray and a multi-shot magazine. Either can be used and the shooter can very simply swap the functionality as and when required.

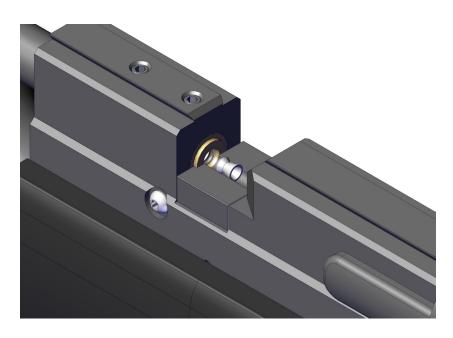
To swap between the tray and the magazine first cock the rifle as described above. It is good practice to engage the safety lever first. Now slide the tray out of the breech to the left of the rifle and then insert the magazine in the same way. When inserting the tray or magazine it will come up against a stop when fully mounted.



Loading the Pellet Tray

To load the pellet tray place a pellet of the correct calibre in the tray with the front of the pellet facing forwards. Then close the cocking arm. The probe will push the pellet into the breech and the rifle is ready to fire.

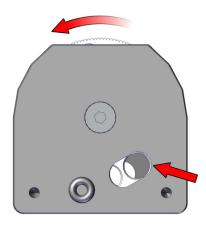
Take care the rifle is now LIVE.



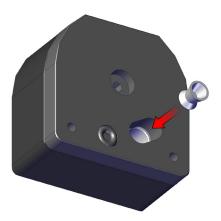
Loading the Magazine

1. Using your finger rotate the pellet carrier anti-clockwise until the first pellet chamber is on the right-hand side of the magazine as shown here.

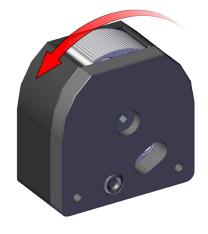
The first chamber will be halfway over the hole in the rear of the magazine body.

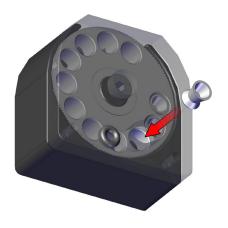


2. Insert the first pellet into the first chamber of the pellet carrier.



- 3. With the first pellet loaded repeat the process. Rotate the pellet carrier anti-clockwise to the next free chamber and insert another pellet.
- 4. Repeat this process until all free chambers are loaded. The image below has had the cover made transparent to show the progress.
- 5. The magazine can now to inserted into the rifle.





Firing the Rifle

Once the pellet has been loaded into the tray or the magazine has been inserted into the rifle you are ready to shoot.

Push the safety lever to the fire position 'F', aim and squeeze the trigger. The rifle will now fire.

If you are using the magazine then simply cock the rifle and close the cocking lever and the rifle is ready to fire again.

If using the pellet tray, cock the rifle and whilst the lever is in the rear position, place another pellet in the tray. Close the lever and the rifle is ready to fire.

Practice Shots

It is common to train with a rifle without the use of pellets, this practice is known as dry firing. The X200 does not have dedicated dry firing facility but it is OK to fire the rifle without a pellet in the breech as long as there is air in the system. It is NOT advisable to fire the rifle without air in the cylinder as this may damage the rifle.

Trigger Adjustment

Trigger Description

The X200 has a true two-stage trigger mechanism. This means that as the trigger is operated the middle sear slowly disengages with the top sear until the two separate completely, at the second stage point or pull-off point, and the rifle fires. If the pressure is released on the trigger at any point, the middle sear returns to full engagement. This type of trigger allows for very fine and safe adjustment as it is the second stage point that allows the sears to completely disengage.

This arrangement is vastly superior to a pseudo two-stage trigger where the first stage is a pivoting trigger blade and does not move sears. The downside is that true two-stage units are more difficult to adjust correctly.

Trigger Adjustments

The X200 model uses a two-stage trigger as described above. Adjustments can be made to both the first and second stages as well as the trigger weight. It is easy to upset the balance between stages one and two and make the trigger inoperable if poorly adjusted, even dangerous. If you have no experience of adjusting two-stage triggers please seek guidance or leave the trigger as factory set.

NOTE: Incorrectly adjusted trigger mechanisms are not covered by the manufacturer's warranty.

Adjustment Screws

It is good practice to make notes as you make adjustments and also make small adjustments (1/4 turns or smaller) as you work.

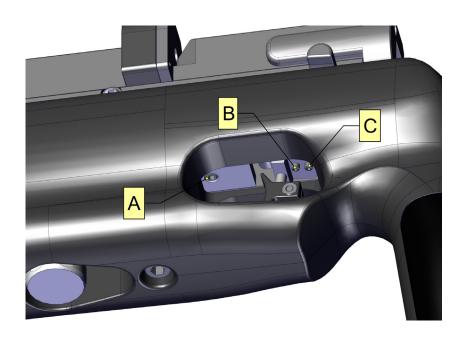
There are three adjustment screws in the trigger A, B & C as shown below.

The weight-of-pull is controlled by screw A, and this is located forward of the trigger blade in a flat panel. Clockwise rotation increases the pull weight. If the screw is adjusted too far the spring may become bound and prevent operation.

The first stage adjustment is controlled by screw B. This screw determines the length of travel of the first stage. The clockwise adjustment reduces travel.

The second stage adjustment is controlled by screw C. This screw determines the exact point the second stage starts. This is the point the rifle will fire.

All adjustments are related, therefore, adjusting each screw directly affects the other screw adjustment points. For example, shortening the first stage may mean there is creep on the second stage, whilst adjusting the second stage screw out may mean there is no second stage at all and the gun will fire during the first stage pull. Care must be taken. Only adjust the trigger if you have experience.



Maintenance

There is very little maintenance required on the X200 other than keeping the action clean and dry, a little oiling on pivot points and cleaning the barrel. If the rifle gets wet, it is advised to dry all surfaces with a lint-free cloth and then using an oiled cloth wipe all areas of the rifle to give a protective film. Avoid spraying oil onto the action if possible as this may result in oil penetrating the action and causing performance issues. It may be necessary to remove the stock to dry and clean below the stock line on occasion. Please refer to the section on stock removal for this procedure.

Stock Fixing Screw

Regularly check the tightness of the stock fixing. However, do not be tempted to overtighten as this will raise the possibility of stripping the threads from aluminium components.

Barrel

For ultimate accuracy, clean and re-lubricate the barrel regularly. How often will depend on the amount of use the rifle gets and is therefore difficult to advise, however, every 250 shots would not be too often if the desire is to keep the barrel in the best possible condition.

The correct materials are very important. Air Arms only use products made by Napier of London. Listed below are the Napier products used during the assembly of the X200.

CleanerOilNapier Power Airgun OilNapier Power Airgun Oil

• Pull-Through Pad - Napier Rifle Clean

Pull-Through Line - Napier Power Pull-Through Kit

As a rule, it is advisable not to use cleaners and oils intended for shotguns and small-bore/full-bore weapons. These can be too aggressive for air gun barrels.

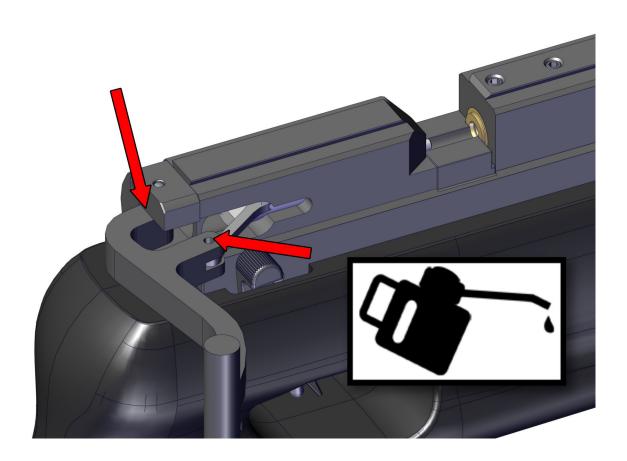
If possible carry out the below procedure with the rifle barrel side down or the gun laid over. This is to avoid excess oil/cleaner seeping into the action.

- 1. Check that the rifle is not cocked or loaded and remove the magazine if fitted
- 2. Feed the pull-through down the barrel, from the muzzle end, until it is visible at the breech end
- 3. Cut a short length of rifle clean material, approximately 80-100 mm, spray the pad with a little oil/cleaner and thread it through the loop on the pull through kit
- 4. Slowly pull the pad through the barrel
- 5. Repeat steps 2 4 until the pad comes through clean
- 6. If you are not using a combined oil/cleaner, then use a drop of oil on the last pad to protect the inner surface of the barrel
- 7. The rifle is now ready to use but for the best accuracy is advised to shoot 20 shots through the barrel to clear excess oil.

Lubrication

Lubrication of the internal mechanism is not covered in this handbook. This is best performed by Air Arms or other competent gunsmith and in any case, should not be required until the annual service.

Apply a small drop of oil on the two pivot points shown in the diagram, and work -in by moving the bolt forwards and backwards. Wipe off excessive oil. On return from every shooting session, wipe over the exterior of the rifle with an oily rag to preserve the surface finish during storage. Take extra care if the rifle is wet and also consider moisture below the stock line.

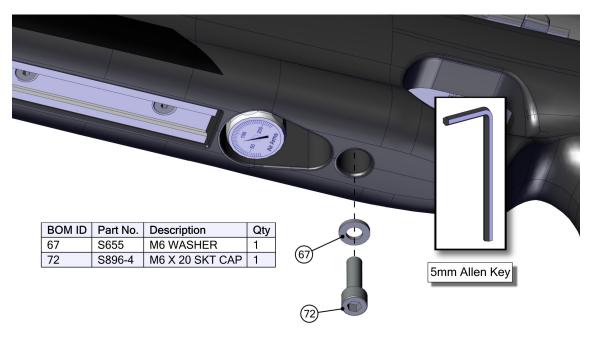


Removing the Stock

It is good practice to remove the action from the stock from time to time to clean and inspect the underside of the action. This is particularly important if the rifle has been used in wet conditions.

The stock is held to the action using a single screw on the underside between the trigger guard and gauge. Using a 5 mm allen key remove the screw and the action will lift free of the stock.

When refitting care must be taken not to over-tighten the screw 'hand tight' will be enough to hold the action.



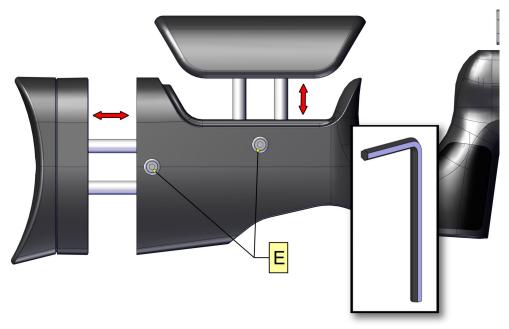
Stock Adjustment

The stock of the X200 is adjustable in two places, the butt pad and the cheekpiece.

Butt Pad Adjustment

The butt pad can be adjusted in and out to increase or decrease the length of pull and the pad itself can be adjusted up and down to the required position. Use a 4 mm allen key to

loosen screw 'E' and slide the butt pad assembly to the required position and then re-tighten the screw.

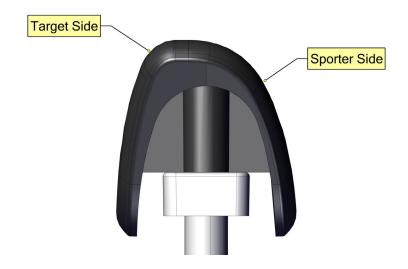


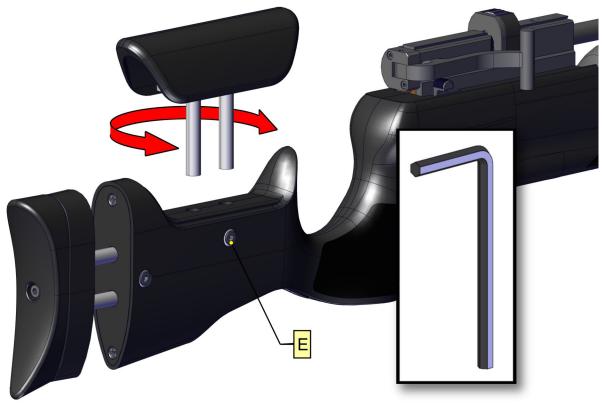
Cheek Piece Adjustment

The cheekpiece can be adjusted for height but the X200 is also fitted with a two-profile shape allowing the user to choose between a traditional sporter-type shape or a more angular shape preferred by target shooters.

To adjust the height use a 4 mm allen key to loosen screw 'E', adjust the cheekpiece to the required position and re-tighten the screw.

To change the profile, loosen screw 'E' and remove the cheekpiece assembly completely and swap around to the required profile. Re-insert the assembly and tighten the screw.





Convert Cocking LH/RH

One of the useful functions the X200 offers is the ability to convert the cocking lever between left and right-hand cocking. A simple process using a 2.5 mm allen.

- 1. Engage the safety and cock the rifle. Leave the lever in the open position and ensure there is no pellet in the breech.
- 2. Using a 2.5 mm allen key, remove the two screws that hold the cocking lever mount to the main body.
- 3. Slide the cocking link off of the pin located in the striker.
- 4. Rotate the cocking lever mount 180 degrees.
- 5. Insert cocking link into the slot in the main body and over the pin in the striker.
- 6. Replace the mounting screws and tighten using a 2.5 mm allen key.

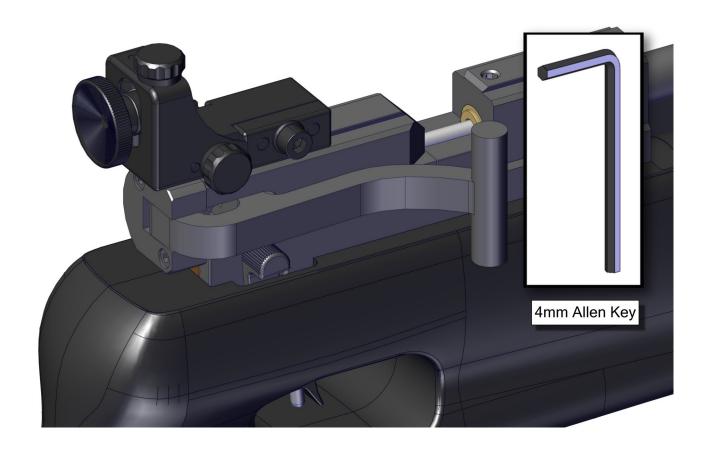
Note: The rifle is cocked. De-cock or fire off in a safe direction.

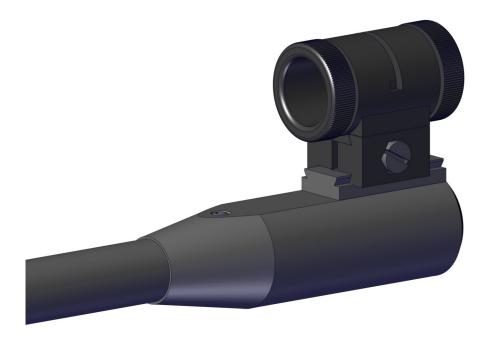


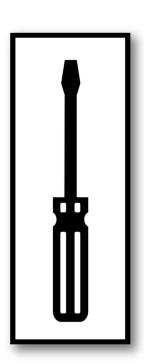
Dioptre Sights

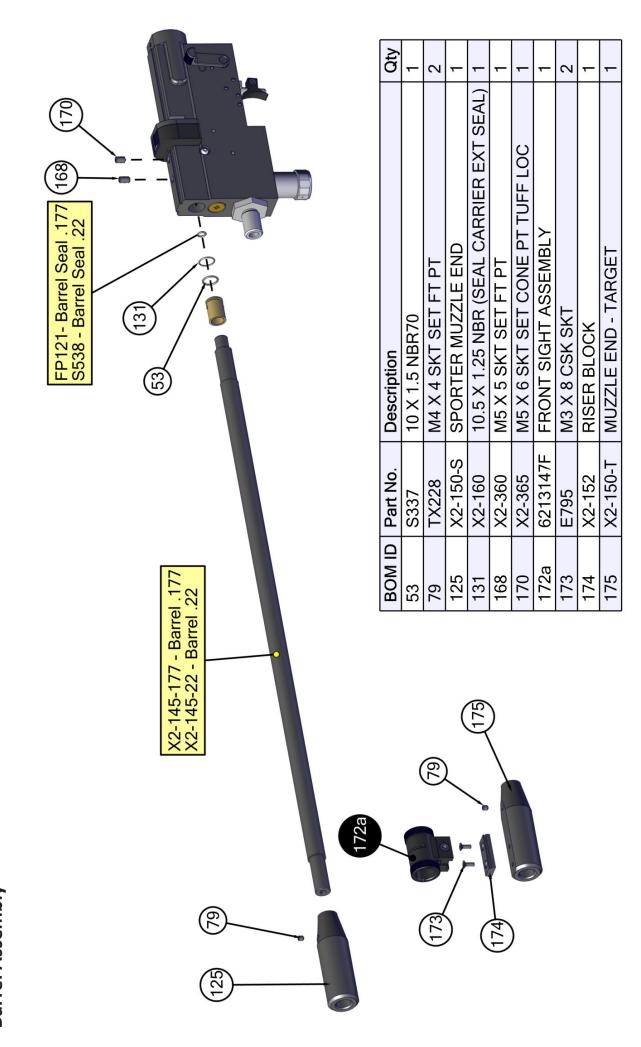
The target version of the X200 is supplied with a set of dioptre sights. To fit the sights, slide them onto the front and rear dovetails and tighten the screws.

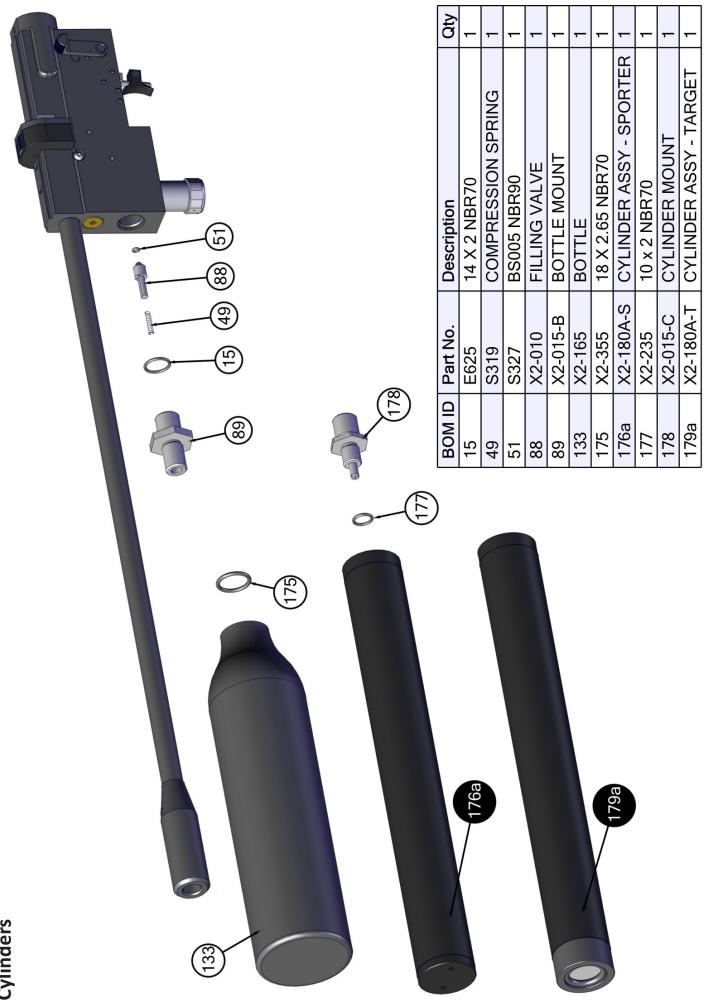
Use a 4mm allen key to fix the rear sight and a screwdriver to fix the front sight. Do not over tighten either of these fixings.

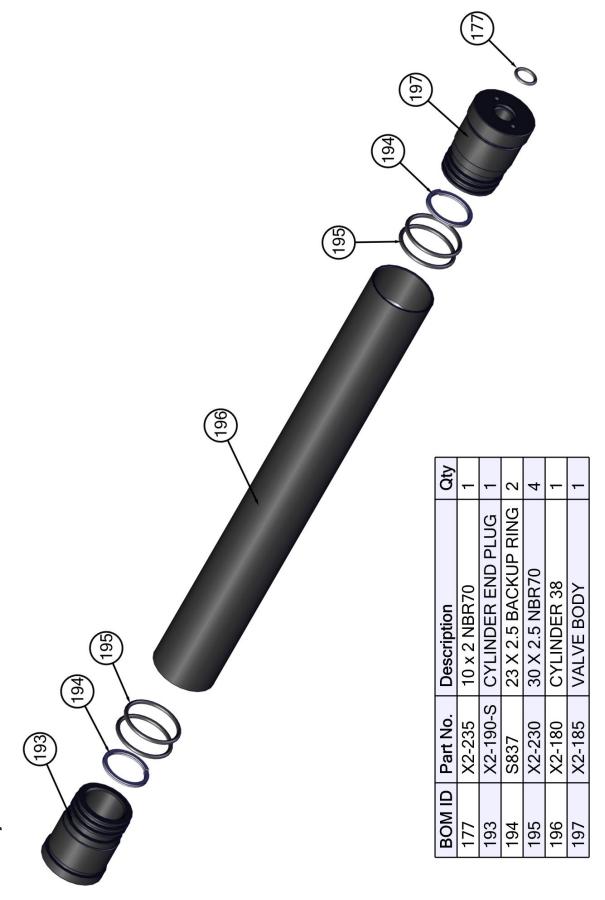


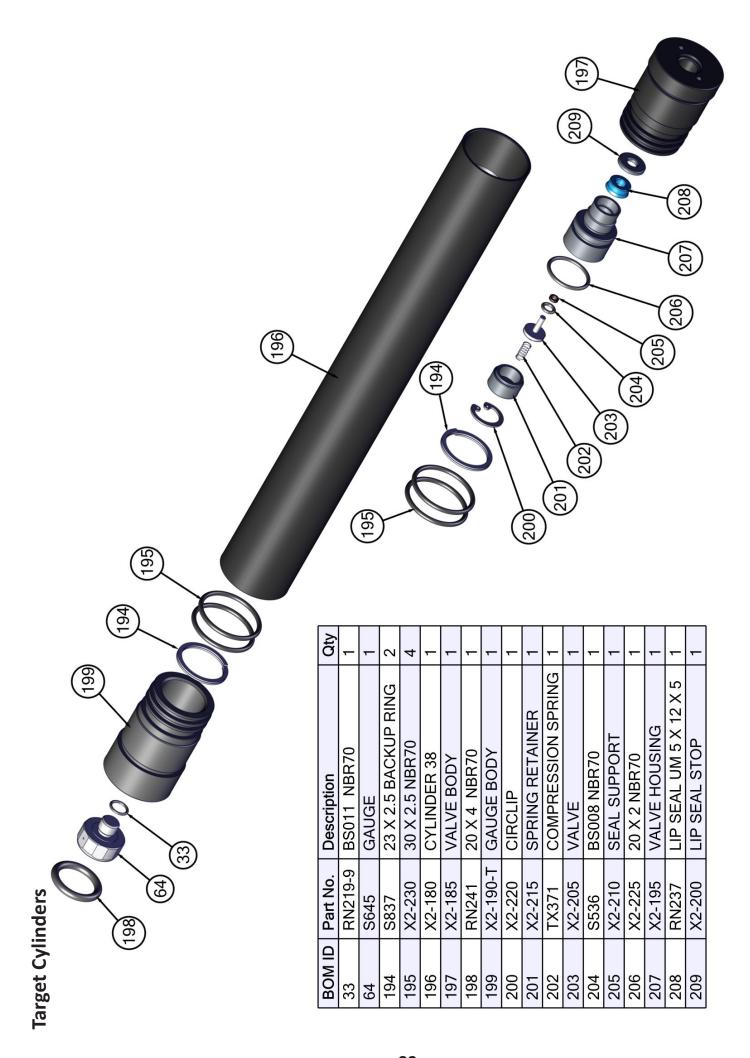


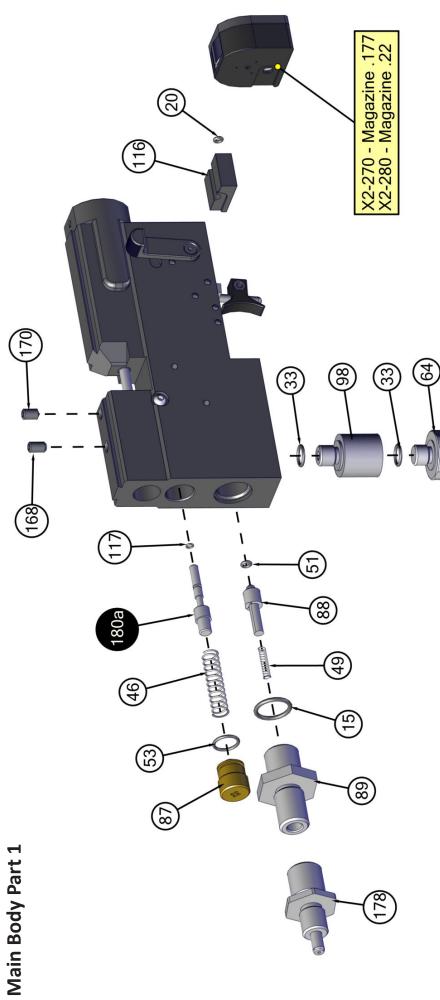




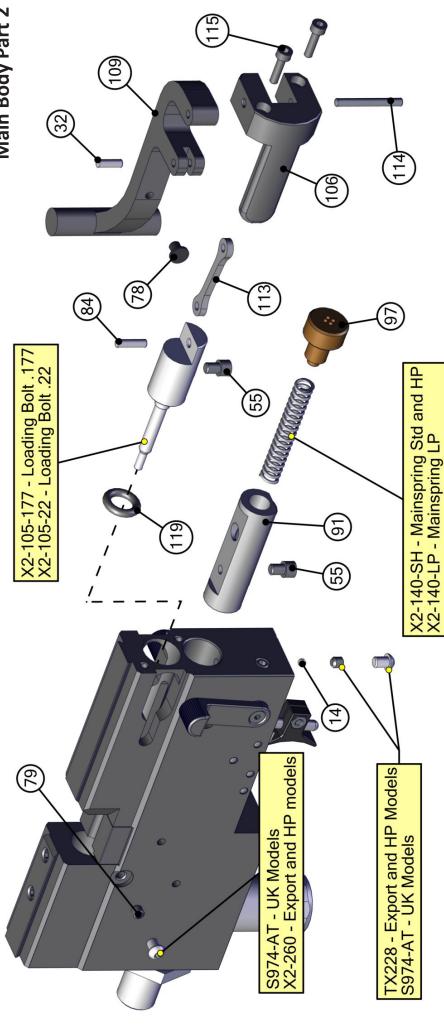








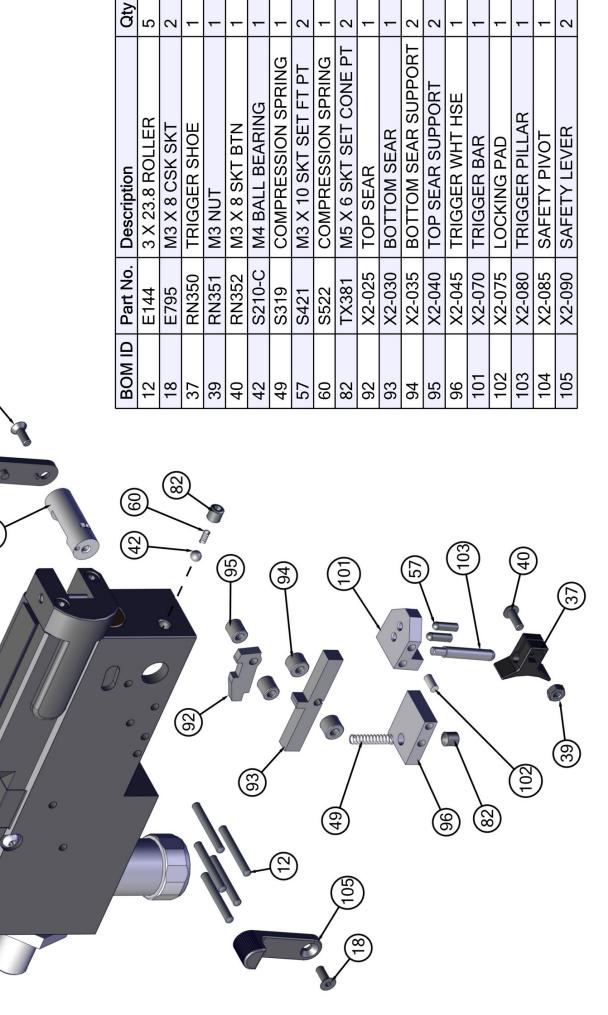
>	BOM ID	BOM ID Part No.	Description	Qty
	89	X2-015-B	BOTTLE MOUNT	1
	86	X2-055	GAUGE EXTENSION	1
	116	X2-125-177	X2-125-177 PELLET - 177	1
	117	X2-130	2 X 1 NBR70	1
	168	X2-360	M5 X 5 SKT SET FT PT	1
	170	X2-365	M5 X 6 SKT SET CONE PT TUFF LOC	1
	178	X2-015-C	CYLINDER MOUNT	1
	180a	X2-065A	FIRING VALVE ASSY	-
I				

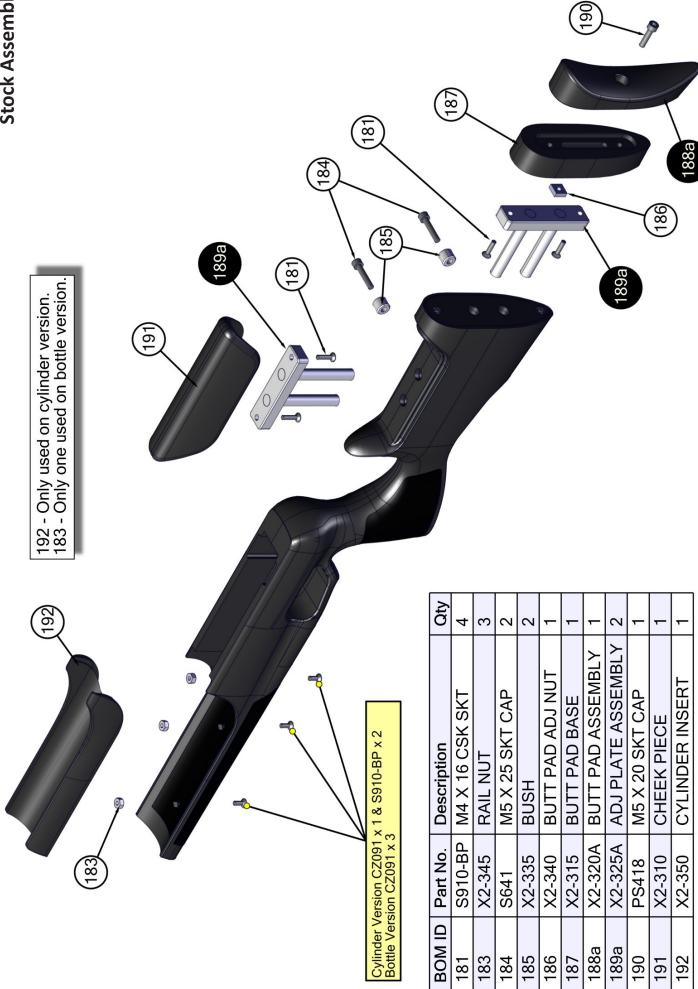


BOM ID	Part No.	BOM ID Part No. Description	Qty
106	X2-095	X2-095 COCKING LEVER MOUNT	1
109	X2-100	COCKING LEVER	1
113	X2-110	COCKING LEVER LINK	1
114	X2-115	X2-115 3 x 25.8 ROLLER	1
115	X2-120	M3 X 12 SKT CAP	2
119	X2-135	X2-135 8 X 3 NBR70	1

BOM ID	Part No.	BOM ID Part No. Description	Qty
14	E146	FRICTION PAD	_
32	RN127	3 X 9.8 ROLLER	_
22	H958S	STRIKER SCREW	2
78	TX227	BUFFER	-
79	TX228	M4 X 4 SKT SET FT PT	2
84	86EX1	3 X 11.8 ROLLER	-
91	X2-020	STRIKER	_
26	X2-050	POWER ADJUSTER	-

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Warranty (UK Only)

The Air Arms warranty covers repairs free of charge if the item is up to 3 years old, from the date of purchase (UK only). The warranty covers faulty materials and workmanship, not reasonable wear and tear. The warranty applies to items purchased from new; proof of purchase is required. This cover is not transferable, therefore it applies to the original purchaser only. Please retain your receipt and register the warranty online at: www.air-arms. co.uk/warranty-submission.

What is covered

Replacement parts and labour. Return transportation to the consumer (UK mainland only).

What is not covered

Transportation from the consumer to Air Arms.

Damage caused by misuse, abuse, disassembly or lack of routine maintenance/servicing. No warranty is implied as to the fitness for any particular purpose. Return transportation to consumers outside the UK mainland. Any rifle with serial number removed or altered.

Please visit www.air-arms.co.uk to register your rifle and details or scan the QR code below.



Air Arms

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Website: www.air-arms.co.uk Email: general@air-arms.co.uk