



USERS HANDBOOK

THIS HANDBOOK REFERS TO GALAHAD US SPEC FAC MODELS



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

THIS AIRGUN IS INTENDED FOR USE BY THOSE 18 YEARS OF AGE OR OLDER



WARNING!

Not a toy. Adult supervision required. Misuse or careless use may cause serious injury or death. May be dangerous up to 1,000 yards.



WARNING!

Do not inhale dust from lead pellets or put lead pellets in the mouth. Wash hands after handling lead. Lead pellets contain lead, a chemical known to the State of California to cause cancer and birth defects (or other reproductive harm).



WARNING!

Keep the air rifle in the ON SAFE position until you're ready to shoot, then push the safety to the OFF SAFE position.



WARNING!

Keep your fingers off the trigger while cocking the air rifle or with the barrel in the downwards position. Failure to do so may permanently damage your air rifle. Do not shoot without a pellet in the chamber (dry fire). This may permanently damage your air rifle.



WARNING!

Use the correct pellet size according to your Air Arms model. Never reuse pellets. The use of any other kind of ammunition can cause injury to you or damage the air rifle.



WARNING!

Do Not assume that the gun is unloaded if it fails to fire properly.



WARNING!

Never leave your gun loaded. Do not store it loaded.



WARNING!

Never allow petroleum based lubricant products into the compressed air reservoir.



WARNING!

Compressed air cylinders must **NEVER** be opened or modified mechanically by unauthorized specialists.



WARNING!

Do not attempt to repair the airgun or to disassemble to correct an over-fill or valve lock. Parts can fly from the airgun at dangerous speeds when it is disassembled while pressurised.



WARNING!

Disconnecting the fill hose from the airgun without bleeding the air first may result in injury from hose whip as a result of pressure in the fill hose.



WARNING!

Use only compressed air in this airgun. Use no other gases-including oxygen, which can cause a fire or explosion that may result in serious injury or death.



WARNING!

When filling the compressed air cylinder, the compressed air must **NOT** contain oil, water or any contaminant.



WARNING!

The compressed air cylinder must be protected from forceful impacts.



WARNING!

Compressed air cylinders are **NOT** intended for transport of other gases.



WARNING!

Do **NOT** exceed maximum fill pressure of 3625psi (25MPa) at room temperature.

Rules of safe shooting:

- Never point a gun at anyone or anything, even if you think the gun is unloaded.
- Wear shooting/safety glasses where appropriate and ensure those around you do too.
- Always keep your gun on SAFE until you are ready to shoot safely.
- Always use a safe backstop in a safe location in case the backstop should fail or any pellets pass through it.
- Never load your gun until you are ready to shoot and it is safe to do so.
- Never shoot at hard surfaces, water or anything else that may cause a ricochet.
- Always ensure a gun is on SAFE and unloaded when receiving a gun or giving a gun to someone else. Many accidents are caused by people handling guns that they thought were unloaded and safe!
- Never put a gun away loaded or cocked.
- Always be sure of your target and what lies beyond it in case you miss.
- Never re-use ammunition.
- Ensure you always use the correct caliber ammunition that is suitable for your gun.
- Never rely solely on the safety; the most important safety feature is you!
- Always treat a gun as if it is loaded and with the respect any loaded gun commands.
- Always read and follow the manufacturer's manual and instructions.
- Always make sure you understand how to use any gun before using it.
- Always keep your finger off the trigger and clear of the trigger guard until you are ready to shoot and it is safe to do so.
- Always store the gun in a safe place, unloaded and uncocked, and out of reach of children and unauthorized users.
- Always store ammunition separately from the gun.
- Always abide by laws and regulations that apply to airguns.
- Always use the correct and recommended lubricants, failure to do so may cause injury or damage.

Shooting is one of the safest sports in the world, but misuse and careless use of guns can cause serious injury or death.

ASK, LISTEN, THINK—IF IN DOUBT—DON'T!

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 $(FPS \times FPS \times Grains) / 450240$, i.e. $(700 \times 700 \times 10.65) = 5218500$ divide by 450240 = 11.59.

Contents of the box

- 1 x Galahad
- 1 x Manual
- 1 x Tool kit. This kit consists of 1 x 1.5mm Allen key, 1 x 2.5mm Allen key
1 x 3mm Allen Key, 1 x 5mm Allen key
1 x filling probe

Important information

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

Before leaving the factory this rifle was Q.A. inspected and test fired using Air Arms pellets to check operation and final adjustment.

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 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.

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 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.

Do not pressurise beyond the stated filling pressure (see filling instruction section). Damage caused by such action is not covered by the manufacturers warranty.

Important information (continued)

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 to three years depending upon usage. 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 own 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.

WARRANTY

Air Venturi Limited Lifetime Warranty

During the lifetime of the original retail purchaser, Air Venturi will provide without cost all genuine factory parts (excluding main spring and seals). All factory-authorized labor necessary to repair any factory defect of material or workmanship of the covered airgun. Parts and labor necessary to repair any defect of material or workmanship of the seals and main spring will be provided for one year from the verified date of purchase.

Shipping costs to Air Venturi will be responsibility of the purchaser.

The warranty will be void if the manufacturers instructions/guidelines are not followed and the original purchase receipt cannot be presented.

Some items are not covered by this free lifetime repair policy, including:

- Customer abuse or failure to perform normal maintenance.
- Unauthorized repair, parts or modifications.
- Stocks/wood (including the finish).
- Incorrect lubrication or lubricants.
- Breech, piston and other seals.
- Mainsprings.
- Loss or theft.
- Consequential damages, incidental damages or incidental expenses including damage to property.
- Shipment damage of the rifle to or from Air Venturi.
- Shipping charges to or from Air Venturi.
- Normal wear and tear.
- Cylinders on PCP models
- If the cylinder replacement is mandated by local governing laws.
- If the cylinder has been over pressurized.
- If the inside of the tank is rusted due to moisture from using a non recommended filling device.

We strongly advise against disassembling or modifying your air rifle. Doing so could be dangerous. The powerful mainsprings are kept under considerable tension even when the air rifle is uncocked. Improper disassembly may lead to serious injuries or even death if the mainspring is suddenly ejected from the compression tube. Specialized training and proper tools are required to safely disassemble and reassemble the air rifle.

This warranty is in addition to your statutory rights. Retain your sales receipt as proof of purchase.

This policy supersedes all other repair policies. For repairs on any airgun, send the airgun pre-paid and insured to: Air Venturi, 5135 Naiman Parkway, Solon, OH 44139.

Include a note describing the problem, your name, address, telephone number and a copy of your dated sales receipt.

NOTE: Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

To the extent any provision of this warranty is prohibited by federal, state or municipal law which cannot be preempted, it shall not be applicable. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state and country to country.

* Lifetime repair policy valid only as long as parts are readily available for the airguns

AIR ARMS RESERVE THE RIGHT TO ALTER THE CONSTRUCTION, APPEARANCE OR PERFORMANCE OF ANY PRODUCT WITHOUT PRIOR NOTIFICATION. ALL ILLUSTRATIONS ARE FOR INFORMATION PURPOSES ONLY AND DO NOT NECESSARILY SHOW THE EXACT MODEL THAT WAS PURCHASED.

Air Venturi Limited One-Year Warranty

This product is warranted to the retail consumer for one year from date of retail purchase against defects in material and workmanship and is transferable.

What is covered:

Replacement parts and labor. Transportation charges to consumer for repaired product.

What is NOT covered:

Transportation charges to Air Venturi for defective products. Damages caused by abuse or failure to perform normal maintenance. Any other expense. CONSEQUENTIAL DAMAGES, INCIDENTAL DAMAGES OR INCIDENTAL EXPENSES INCLUDING DAMAGE TO PROPERTY. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

Warranty claims:

Warranty claims for U.S. and Canadian Customers:

Please return product to Air Venturi. Call Air Venturi at 216-292-2570 before returning any product.

Implied warranties:

ANY IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO ONE YEAR FROM DATE OF RETAIL PURCHASE. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

To the extent any provision of this warranty is prohibited by federal, state or municipal law which cannot be preempted, it shall not be applicable. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state and country to country.

Air Venturi
AirVenturi.com • 216-292-2570



WARNING!

DO NOT TRY TO DISASSEMBLE THE GUN. Your rifle needs special tools and Air Arms parts in order to be repaired. If you disassemble it, you may not be able to properly reassemble it. Air Arms does not assume any warranty liability under such circumstances.

Adjusting the cocking lever

The Galahad rifle is an ambidextrous model designed so the cocking lever can be used on either side of the action.

To change the lever from one hand to the other...

1. Remove the screw holding the lever to the action using a 3mm Allen key.
2. Slide the lever from the shaft. Two pins are used for pivot control and these should also be removed with the lever. If they stay in the shaft use a pair of pliers to pull the pins free.
3. Remove the screw and cover plate on the opposite side of the action.
4. The re-fitting is now the reverse procedure. Do not over tighten the screws.



Adjusting the stock

The butt pad of the Galahad can be adjusted in three planes; up and down, pivot from side to side and, by adding spacers, in and out.

Up and down

Loosen the screw in the centre of the pad, this will allow the pad to slide up and down in the butt pad mount. Once in place re-tighten the screw. DO NOT OVER TIGHTEN.

Pivoting the pad

The butt pad can also be pivoted left and right to find the perfect position. This is achieved by first loosening the screw in the centre of the butt pad. Slide the pad up and down to expose the pivot fixing screws (see below). Loosen both screws slightly and pivot the pad in to the desired position. Once happy with the pad position re-tighten the screws taking care not to over tighten.

Slide the rubber pad back into place and re-tighten the centre screw.



Adding spacers to the butt pad

The length of pull (distance between the centre of the butt pad and the trigger) can be increased by placing spacers into the assembly between the pad and the wood.

First loosen the centre screw and slide the pad up and down to gain access to the fixing screws, (the top recessed screw in picture below). This may be a Philips or Allen head. There is a similar screw at the bottom of the pad.



Remove both screws and the butt pad assembly will come away from the main stock body.

Place a spacer between the butt pad base and the wood and re-fit the screws being careful not to over tighten. The spacer is 6mm thick and available separately from your stockist.

Safety button

The Galahad is fitted with a manually operated safety button housed in the trigger of the rifle. When the button is pressed in from the left the rifle is safe. When pushed from the right it is ready to fire. When the rifle is ready to fire a red ring is visible around the button.

SAFETY ON



SAFETY OFF



Filling the rifle

The Galahad rifle is filled using a probe (supplied with the rifle) fitted to the hose from your filling system i.e. scuba bottle or pump.

The probe is machined with a 1/8th BSP thread which is screwed directly into the hose of your filling system.

With the probe fitted the rifle can now be filled.

Making sure the rifle is not cocked (if there is air in the cylinder) or loaded, slide open the dust cover on the end of the cylinder. This will expose the probe hole.

Push the probe gently into the filling body until it comes to a stop. It does not matter which side the probe is inserted from.

With the probe pushed 'home', you can now fill the cylinder. Ensure the bleed valve on your kit is closed and then slowly open the valve on the bottle or start pumping.



Once the required fill pressure has been reached (see chart below for filling pressure information) close the valve or stop pumping. Vent the system using the vent screw (see arrow below) on your filling kit and withdraw the probe from the filling valve body. If the probe does not slide out with ease, check to make sure the hose is completely empty of air by opening the vent screw again.

Lastly, slide the dust cover closed over the hole to prevent dust or dirt getting into the mechanism. You are now ready to shoot.

Note: Always use the gauge on your filling kit during the filling process NOT the gauge on the rifle.



Model	When to refill	Refill 'Working' pressure
Regulated models	2103 - 2175psi (14.5 - 15MPa)	3625psi (25MPa)
Non-regulated models	1305 - 1450psi (9 - 10MPa)	2900psi (20MPa)

If you are filling the cylinder from completely empty then the rifle will need to be cocked to allow the firing valve to close and seal.

Make sure the magazine is empty of pellets or removed from the rifle completely. Cock the action and engage the safety button (see previous page). Now start the filling procedure.

As the cylinder starts to fill, air will exhaust through the barrel until the pressure is sufficiently high to seal the main valve. At that point the air will stop exiting the barrel and the cylinder will start to fill. The pressure can vary from 725 - 1015psi (5 - 7MPa) for the valve to seal; this is normal.

Note: As pumps fill the cylinder slower, it may require vigorous pumping until the valve seals. Also, please note the first few pumps will be used to fill the filling hose.

Cylinder information

On the front of the cylinder is an engraved warning...

'READ MANUAL. COMPRESSED AIR ONLY. MWP ###psi (##MPa). MFP ###psi (##MPa). DOM ##/##/####.
INSPECT BI-ANNUALLY'

- MWP - Maximum working pressure. The pressure stated may differ from model to model. This is the pressure the rifle should be filled to for best performance.
- MFP - Maximum filling pressure. The pressure stated may differ from model to model. This is the maximum pressure the cylinder should be filled to avoid potentially damaging the rifle.
- DOM - Date of cylinder manufacture. The date is stated.

There is also a 5 digit tracking number used during production (internal use only).

Note: Filling the cylinder above the recommended working pressure level will NOT improve performance or shot count. For best results please refer to the table above.

Only compressed air should be used in Air Arms products.

Loading the magazine

The Galahad is fitted with a self indexing magazine system that needs to be loaded before shooting can begin.

The magazine is housed in an aperture through the cheek piece of the rifle. To remove the magazine the rifle must first be cocked to remove the loading probe from the magazine. This is achieved by pushing the cocking lever down and forward as far as it will go.

Leaving the cocking lever forwards, the magazine can now be pinched out of the housing.

Once the magazine is free the pellets can be loaded into the pellet carrier.

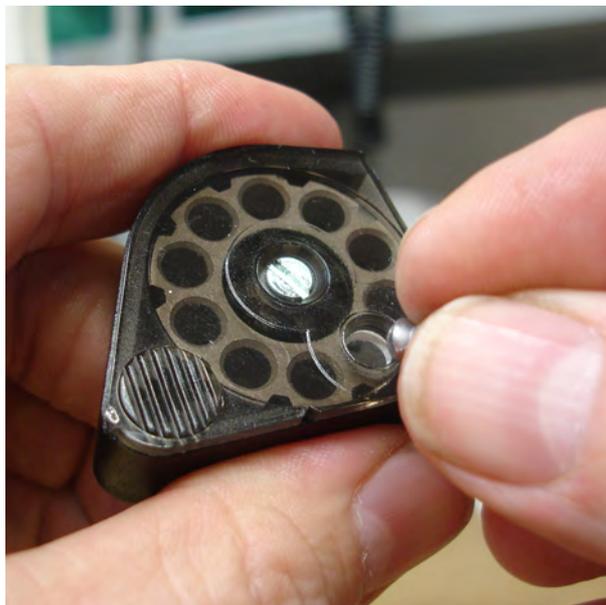
Hold the magazine with the glass of the magazine facing upwards and drop a pellet into the empty chamber. Manually turn the pellet carrier to the next free chamber and load another pellet. Repeat this until the magazine is full.

To reload the magazine, ensure the lever is still in the forwards position and slide the magazine into the housing applying slight downward pressure to keep the base of the magazine against the bottom of the slot in the housing. See picture sequence.

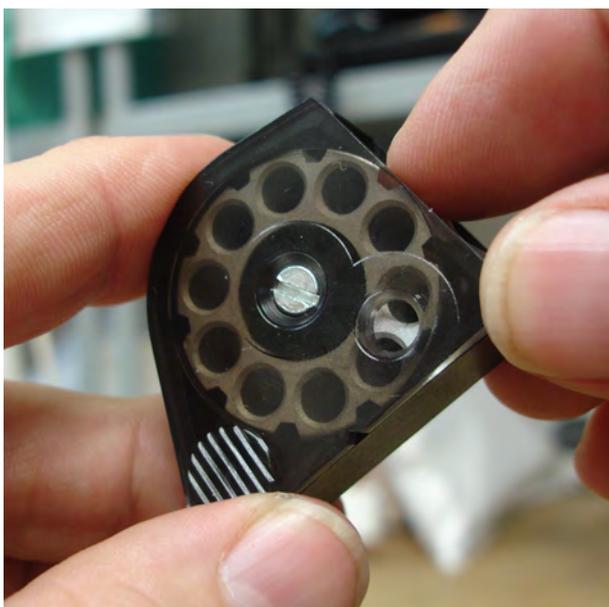




Pinch the magazine out of the housing



Load the pellets into the empty chambers



Manually turn the pellet carrier to the next empty chamber and load another pellet



Reload the magazine back into the housing keeping the magazine pressed to the base of the slot.

Caution

Once the lever is returned to its starting position the rifle is cocked and loaded and ready to fire. Care must now be taken as the rifle is 'LIVE'.

Operating instructions

Cocking the rifle

Holding the rifle by the pistol grip and using the free hand push the cocking lever down and forwards as far as possible. At this point the magazine will index to the next pellet chamber and the trigger mechanism will engage.

Once cocked, the lever needs to be returned to its start position. This will ensure the lever is locked during firing.



Push the cocking lever forwards to the end of its travel. The rifle indexes and sets the trigger unit.



Close the lever to its starting position to lock the lever ready to fire.

Each time you cock the rifle the magazine will index and present the next pellet. Once the magazine is empty, reload and start again.

Care should be taken not to load multiple pellets into the breech. The rifle is capable of firing two pellets at once but this is not a desirable action as the power is greatly reduced and the pellets may damage the shroud inserts.

De-cocking the rifle

If you find you need to de-cock your rifle at any time, the simplest solution is to fire it into some soft ground.

If for any reason this is not possible take the following steps.

1. Cock the lever forwards as if to cock the rifle.
2. Remove the magazine, clear it of pellets and refit.
3. Hold the cocking lever forwards and fire the rifle off in a safe direction.
4. The tension on the lever will increase slightly as the spring load is transferred from the striker to the cocking lever.
5. Now allow the lever to move backwards under your control until the spring tension is dispersed.
6. Close the lever as normal.

Be aware. If you are de-cocking the rifle after it was loaded the de-cocking process will still leave the pellet in the barrel.

Trigger adjustment

The trigger on the Galahad is a two stage sporting mechanism. This means that as the trigger is squeezed the sears slowly disengage until the rifle fires. If at any point before total disengagement the trigger is released the sears all reset to their starting position.

This makes for a very safe and precise trigger unit. The two stages are described as first and second stage movement.

During the first stage the sears start to move until a preset stop point is reached. This stop point is the exact let off point and any further movement on the trigger, other than to release it, will result in the rifle firing.

To adjust a two stage trigger can be a complicated procedure as changing any of the adjustment screws has a direct affect on the other screws and their operation.

In simple terms adjusting the forward screw in the trigger bar changes the length of the first stage pull this in turn then changes the adjustment on the rear screw. As this is used to set the stop point, the let off point changes.

Identification of trigger screws

The trigger adjustment on the Galahad is all made on the rear chassis. To gain access the stock must first be removed (Please refer to the Maintenance section). **As always make sure the rifle is not cocked or loaded and that the magazine has been removed.**

Once you have the stock off you will see three screws, pictured right.

- A - Trigger weight screw
- B - First stage screw
- C - Second stage screw

Trigger weight screw

The trigger weight screw (A) is used to load the mechanism with preload and apply 'weight' or tension on the trigger during firing. Increasing the load by turning the screw in (clockwise) will make the trigger feel heavier and therefore firmer. Adjusting the trigger weight screw will also affect the 'feel' of the first and second stage points.

First stage screw

The position of the first stage screw (B) controls the length of travel of the first stage of the trigger movement. Turning the screw in (clockwise) will shorten the stage and the let off point will 'move forward' and fire the gun sooner. Turning the screw out (anti-clockwise) will increase the length of pull.

Second stage screw

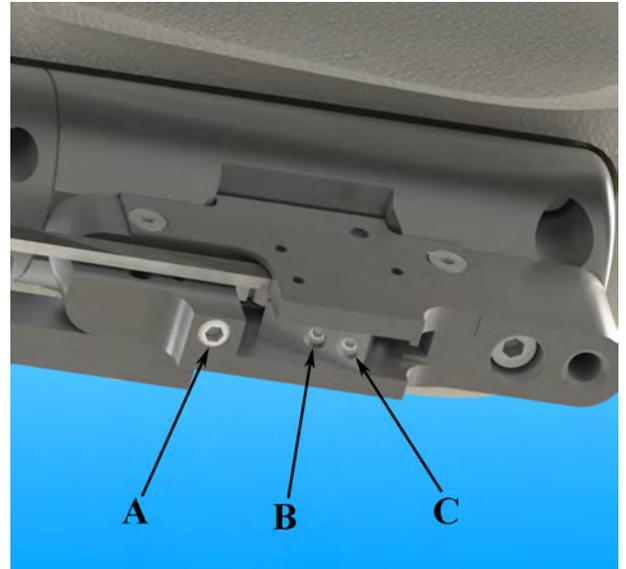
The second stage screw is used to set the precise let off point of the trigger. If the screw is set too far in, when the first stage ends there is still travel required to fire the gun. This is felt as 'creep' on the trigger i.e further movement after the stop is required to fire the gun.

If the screw is set too far out the stop point will not be felt and the gun will fire during the first stage travel.

A perfectly set second stage fire point is when the first stage come to an end at the stop point and the next pressure on the trigger fires the gun.

It is advised to leave the trigger at the factory settings unless you have experience setting two stage triggers.

If you wish to make adjustments to the trigger it is recommended that notes are made during the adjustments and only small precise adjustments are carried out.

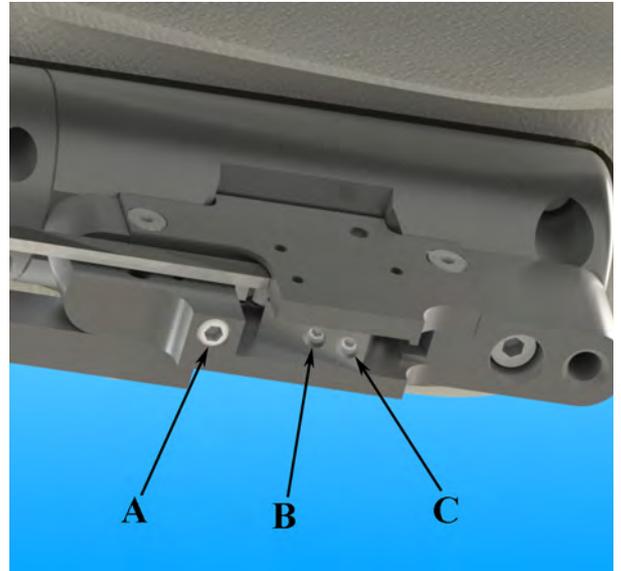


Example: You wish to shorten the length of first stage pull

- Turn screw B a 1/4 turn in (clockwise), test rifle.
- The rifle fires but the second stage stop point has gone.
- Turn screw C an 1/8 of a turn in (clockwise) and test, still no stop point.
- Repeat screw C 1/8 of a turn in (clockwise) and test, the stop point is now present but there is a small amount of creep.
- Turn screw C a 1/16 of a turn out (anti-clockwise), test.

Once you are at this stage if the trigger requires more adjustment, simply repeat the above procedure until the desired trigger setting is reached.

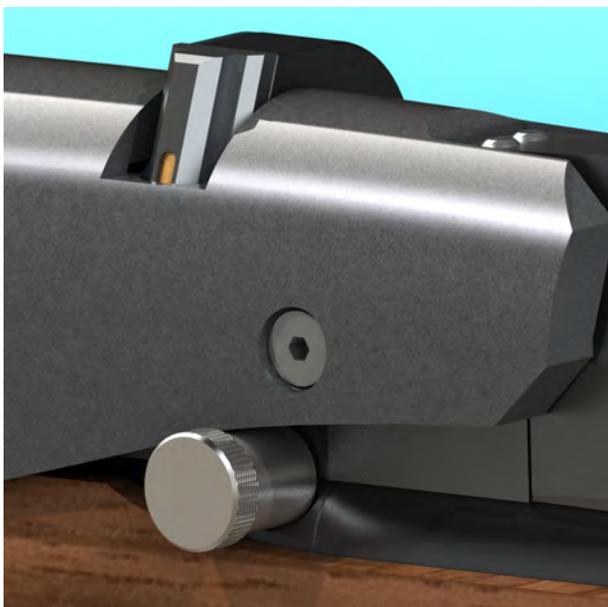
The settings on the front chassis should not be adjusted from the factory settings. Adjustment here may affect the operation of the rifle.



Power adjuster

The power adjuster is an option fitted to some high power models. The adjuster allow the power to be turned up or down depending on your shooting requirements.

To use the adjuster simply turn the adjusting knob on the right hand side of the action clockwise to lower the power and anti-clockwise to increase. There are 5 de-tented positions, these positions do not have fixed power outputs. This will differ from rifle to rifle and is very pellet affected. On the left hand side of the action there is a gauge to show where the power is currently set.



Maintenance

NOTE: Before carrying out any maintenance on your rifle, confirm it is not cocked or loaded and remove the magazine.

Fixings

Regularly check the fixing screws in the main stock body to ensure firm fixing. There are three screws used to hold the action in the stock; one either side of the stock just in front of the trigger aperture and one, 6mm bolt, up into the action on the under side in front of the butt pad. The side screws use a 3mm Allen key and the rear screw uses a 5mm Allen key. Always take care not to over tighten any bolts or screws on the rifle.

Barrel cleaning

To ensure ultimate accuracy it is good practise to clean the barrel regularly. It is difficult to advise how often this should be as shooting practises differ, but in general every 1000 shots will keep the barrel clean and lubricated.

At Air Arms we use Napier products.

Cleaner: *Napier Gun Cleaner*

Oil: *Napier Gun Oil*

Pull through pad: *Napier Rifle Clean*

Pull through line: *Napier Pull Through Kit, strong fishing line will work*

1. Cut a piece of line 3 times the length of your barrel, fold the line in half and tie the ends together. Remove moderator if fitted and open the breech.
2. Feed the untied end of the line down the barrel from the muzzle end until it protrudes from the breech approximately 50mm.
3. Cut approximately 60mm of 'Rifle Clean', fold it in half and pass it through the looped end of the line.
4. Apply a little of the 'Gun Cleaner' to the pad, being careful not to soak the mechanism, and slowly pull the pad through the barrel.
5. Repeat this action until the pad comes through clean.
6. Now repeat once more using 'Gun Oil' instead of cleaner to re-lubricate the barrel. Once the cleaning process is complete, shoot the rifle several times at non-critical targets to remove any excess oil.

NOTE: Cleaners designed for shotguns and full/small bore rifles will not be suitable for air rifle barrels unless specifically stated by the manufacturer.

Lubrication

Lubrication of the internal components is outside the scope of this manual. Internal maintenance should be carried out by Air Arms or any other competent gunsmith.

It is good practise to remove the action from the stock and clean the underside if the rifle has been used in wet conditions.

Removing the stock

There are three screws used to hold the action in the main stock; one either side of the stock just in front of the trigger aperture and one, 6mm bolt, up into the action on the under side in front of the butt pad.

The side screws use a 3mm Allen key and the rear screw uses a 5mm Allen key. Always take care not to over tighten any bolts or screws on the rifle.

The cheek piece is held in place with three screws; one either side at the front of the cheek piece and one screw in the rear of the cheek piece, all use 3mm Allen keys.

To remove the main stock simply remove the screws and lift the action out of the stock. Care should be taken when re-fitting the action not to damage the top surface of the stock.

To remove the cheek piece, first remove the magazine from the breech (Now follow the de-cocking procedure). Remove the three screws holding the cheek piece in place and lift free of the action. **NOTE: There is a spacer between the cheek piece and the bolt housing on the right hand side of the rifle.**

The re-fitting of the stock and the cheek piece is the reverse process to above. Remember to fit the spacer under the cheek piece as leaving this item out may cause damage to the cheek piece when re-tightening the screws.

External surfaces

Wipe all external metal over with an oily rag to clean and protect the surface from corrosion caused by moisture or other contaminants that may damage the surface finish.

The stocks are finished in three ways depending on your stock choice.

The beech stocks are lacquered, the black stocks are painted and the walnut stocks are oil finished.

Wipe clean all stocks and remove moisture after shooting to reduce risk of damage. The oiled stocks will also benefit from an application of oil such as linseed or danish oil from time to time. Apply the oil to the clean surface using a lint free rag or '000' wire wool, use sparingly in line with manufacturers guidance. Always allow the oil to dry before storing your rifle.

Magazine

The O ring on the magazine should be kept moist and this is achieved by applying a small amount of oil from time to time. This will keep the O ring lubricated and increase the life of this component.

Cocking lever

The cocking lever shaft is designed to run on dry bearings and should not require maintenance between services.

SAFETY

You and others with you should always wear shooting glasses to protect your eyes.

Always aim your air rifle in a SAFE DIRECTION. When you are sure of your target and backstop and the area around the target is clear, take the air rifle OFF SAFE and squeeze the trigger to fire.

Do not shoot at hard surfaces or at the surface of water. The pellet may bounce off or ricochet and hit someone or something you had not intended to hit.

Always choose your target carefully. It is best to shoot at paper bullseye targets attached to a safe backstop. Your backstop should be checked for wear before and after each use. Replace your backstop if the surface is worn or damaged or if a ricochet occurs.

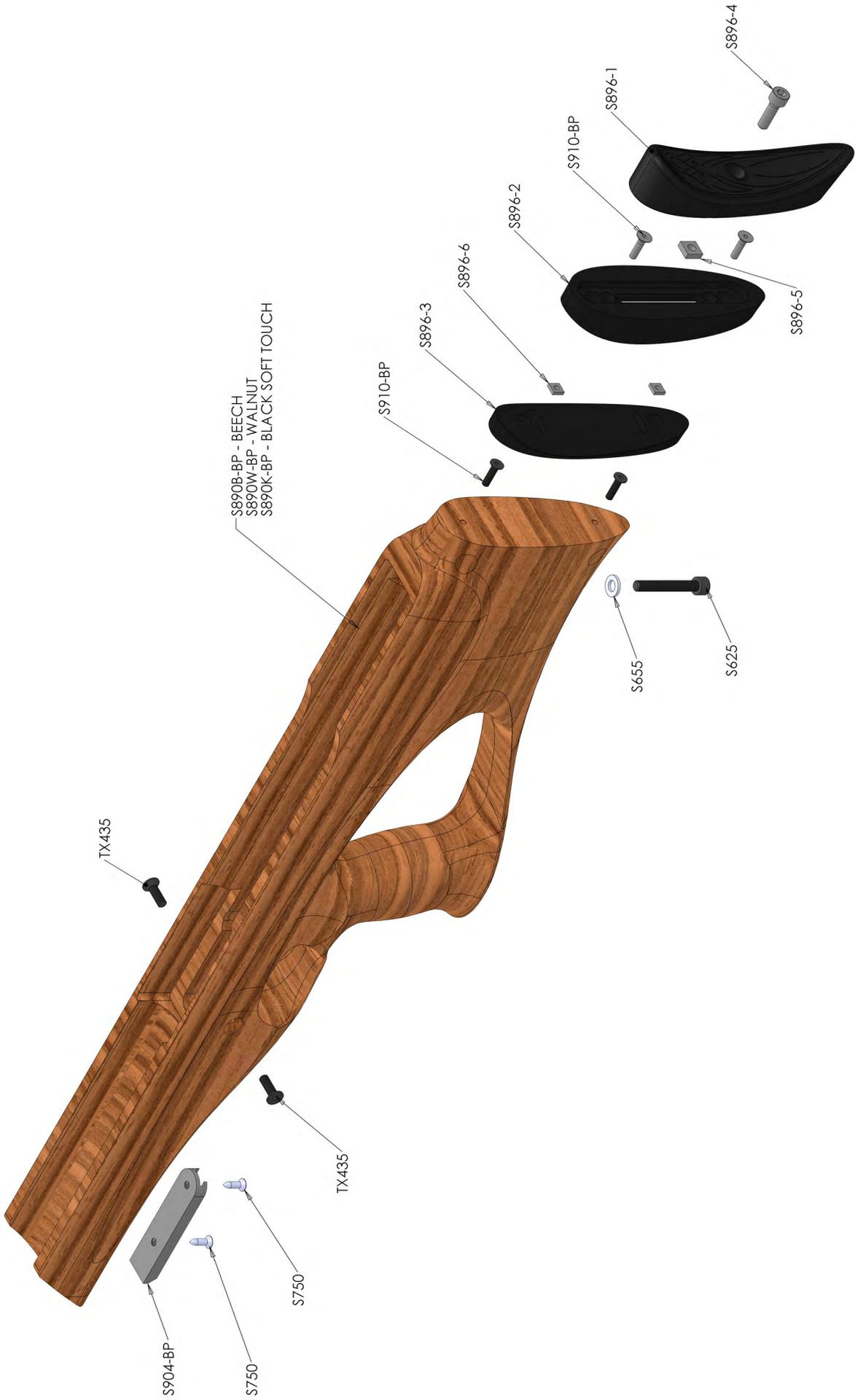
Your rifle is suited for indoor and outdoor use. Always remember to place your target carefully. THINK about what you will hit if you miss the target.

Do not attempt to disassemble or tamper with your air rifle. Contact Air Venturi at 216-292-2570 for repair.

Do not put the air rifle away while it is loaded or cocked.

REPAIR SERVICE

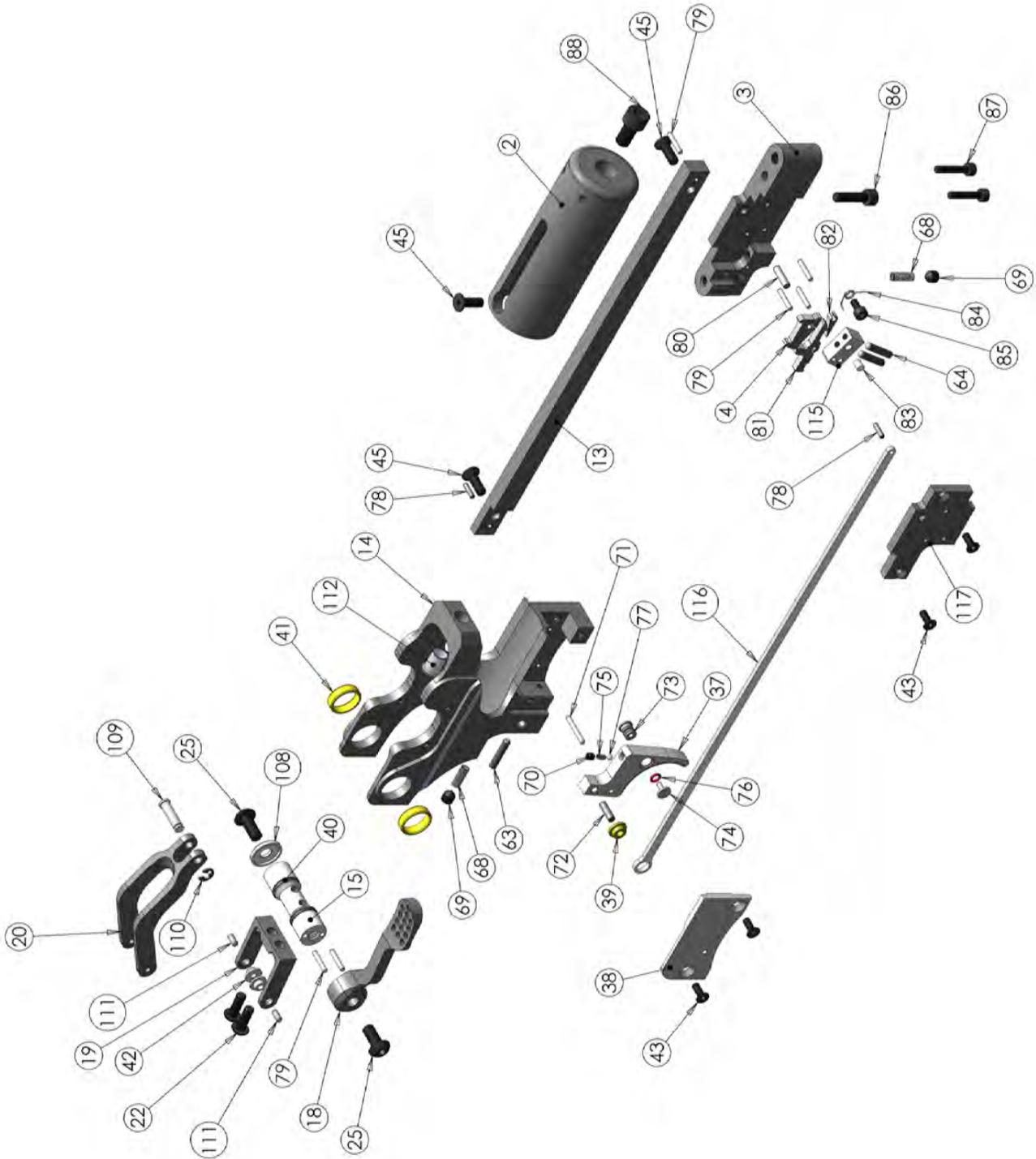
**If your rifle needs to be repaired,
contact Air Venturi at 216-292-2570.**



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
6	S500H-BP	BOLT HOUSING - ADJ	1	49	S600-3-BP	BARREL TUBE SUPPORT	1
	S500HNA-BP	BOLT HOUSING - NON ADJ		50	S922-BP	18 X 1.5 NBR70	2
7	S540A-BP	LOADING BOLT - .177	1	FP121	BARREL SEAL - .177		
	S540B-BP	LOADING BOLT - .22		S538	BARREL SEAL - .22		1
	S540C-BP	LOADING BOLT - .25		FP122	BARREL SEAL - .25		
8	S866-BP	TOP SLEEVE	1	S337	10 X 1.5 NBR70	1	
9	S864-BP	BOTTOM SLEEVE	1	S846D-BP	SCOPE RAIL - DOVETAILS	1	
10	S868-BP	M4 X 14 SKT CAP	1	S846P-BP	SCOPE RAIL - PICATINNY	1	
11	S862-BP	REAR LINK JOINT	1	TX398	3 X 11.8 ROLLER	2	
12	S402AH	BARREL SEAL HOLDER - .22		S565	M3 X 8 SKT CAP	2	
	S402BH-2	BARREL SEAL HOLDER - .177		S902-BP	SPACER	1	
	S402AH-BP	BARREL SEAL HOLDER - .22 NON ADJ	1	RN113	M5 X 6 SKT SET CUP PT	2	
	S402BH-BP	BARREL SEAL HOLDER - .177 NON ADJ		S505	MAGAZINE RETAINING CLIP	1	
16	S858-BP	REAR LINK ROD	2	S515A	INDEXING POST ASSY	1	
17	S860-BP	FRONT LINK JOINT	1	S560	CAM PLATE	1	
23	S229	M3 X 10 SKT BTN	2	S210-C	4mm BALL BEARING	1	
24	RN193	M3 X 6 SKT BTN	6	S898-BP	DETENT SPRING	1	
26	S892-BP	CHEEK PIECE	1	S854-BP	FRONT LINK ROD	1	
31	S306	SPRING	1	S401F	CARBINE BARREL - .22		
32	S840-BP	COVER	1	S401G	CARBINE BARREL - .177		
33	S555A-US	MAGAZINE 10 SHOT - .177		S401A	RIFLE BARREL - .22	1	
	S555B-US	MAGAZINE 10 SHOT - .22	1	S401B	RIFLE BARREL - .177		
	S555C-US	MAGAZINE 10 SHOT - .25		S401J-BO	RIFLE BARREL - .25		
34	S550-BP	SIDE PLATE	1	S224-BP	BAFFLE	6	
35	S914-BP	LEVEL	1	S710S-BP-177	MODERATOR - .177		
43	E795	M3 X 8 CSK SKT	3	S710S-BP-22	MODERATOR - .22	1	
44	S910-BP	M4 X 16 CSK SKT - DOVETAIL RAIL ONLY	2	S878S-BP	SHORT SHROUD	1	
	S322	M4 X 12 CSK SKT - PICATINNY RAIL ONLY		S878L-BP	LONG SHROUD		
46	TX436	M5 X 14 CSK SKT	2	S838-BP	RAIL SPACER - 24mm	1	
47	JT535	M5 X 30 CSK SKT	1	S838-BP	RAIL SPACER - 39mm	1	



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
2	S317-BP	STRIKER BODY	1	72	E690	4 X 10 DOWEL	1
3	S313-BP	REAR CHASSIS	1	73	S521-2A	SAFETY BUTTON - PART ONE	1
4	S320-2	TOP SEAR	1	74	S521-2B	SAFETY BUTTON - PART TWO	1
13	S870-BP	BRACE	1	75	S522	SAFETY BUTTON SPRING	1
14	S842-BP	FRONT CHASSIS	1	76	S526	SAFETY BUTTON O RING	1
15	S856-BP	COCKING LEVER SHAFT	1	77	S523	3/32" BALL BEARING	1
18	S844-BP	COCKING LEVER	1	78	E705	2 X 8 DOWEL	2
19	S850-BP	BOTTOM LEVER	1	79	S326	2 X 11.8 ROLLER	6
20	S852-BP	TOP LEVER	1	80	TX398	3 X 11.8 ROLLER	1
22	JT127	M4 X 12 SKT BTN	2	81	S325-2	MIDDLE SEAR	1
25	RN430	M5 X 12 SKT BTN	2	82	S321-2	BOTTOM SEAR	1
37	S420-BP	TRIGGER	1	83	TX432	ADJUSTER SCREW LOCKING PAD	1
38	S848-BP	FORWARD CHASSIS COVER PLATE	1	84	S495	TOP SEAR SPRING	1
39	S872-BP	REMOTE LINK BUSH	1	85	S496	M3 X 6 SKT CAP	1
40	FP231	9 X 2 70 SHURE O RING	2	86	TX236	M4 X 16 SKT CAP	1
41	S916-BP	COCKING LEVER SHAFT BEARING	2	87	RN102A	M3 X 16 SKT CAP	2
42	S918-BP	LEVER BEARING	2	88	RN135	M6 X 16 SKT CAP ST/ST	1
43	E795	M3 X 8 CSK SKT	4	108	S888-BP	SHAFT COVER	1
45	S322	M4 X 12 CSK SKT	3	109	PS301	SLIDING LINK PIN	1
63	TX431M	M3 X 16 SKT SET FT PT	1	110	TX305	E CLIP	1
64	TX431	M3 X 16 SKT SET DOME	2	111	S906-BP	2.5 X 6 DOWEL	2
68	S319	FILLING VALVE SPRING	2	112	S908-BP	LINK BEARING	1
69	TX381	M5 X 6 SKT SET CONE PT TUFF LOC	2	115	S876-BP	TRIGGER BLOCK	1
70	S524	M3 X 4 SKT SET CONE PT	2	116	S874-BP	REMOTE LINK	1
71	S425	2 X 15.8 ROLLER	1	117	S318-BP	REAR CHASSIS COVER PLATE	1



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	S507H-BP	FIRING VALVE BODY HP	1	68	S319	FILLING VALVE SPRING	1
	S507G-BP	FIRING VALVE BODY - LOCKABLE		70	S524	M3 X 4 SKT SET CONE PT	1
	S507ENA-BP	FIRING VALVE BODY - NON ADJ		87	RN102A	M3 X 16 SKT CAP	4
5	S520E-BP	STRIKER - ADJ & REGULATED	1	91	FP295	M3 X 10 SKT CAP	2
	S520E	STRIKER - NON ADJ & NON REG		101	S340	STRIKER ROD	1
21	S356H	STRIKER SCREW	1	102	S520-1	BUSH	2
28	S882-BP	GAUGE BODY	1	103	S331H	MAIN SPRING	1
29	S880-BP	FRONT CLAMP	1	104	S530H	MAIN SPRING REAR GUIDE	1
30	S886-BP	GAUGE COVER	1	105	S370H	FIRING VALVE ASSEMBLY	1
31	S306	SPRING	1	106	S508-BP	POWER ADJUSTER KNOB - BULLPUP	1
36	S645	INDICATOR GAUGE	1	107	S517	3/32" X 1/4" BISSEL PIN	1
51	RN241	20 X 4 NBR70	1	114	S610H	BOLT HSE TO FIRING VALVE BODY SEAL	1
52	RN219-9	BS011 NBR70	1	120	S920-6-HP	SPACER - (REG ONLY)	1
53	E645-4	21 X 4 NBR70	1	121	S920A	REGULATOR - (REG ONLY)	1
54	S900-BP	25 X 2 NBR70	1	S894S-R	S894S-R	CYLINDER - CARBINE REGULATED	1
55	S327	BS005 NBR90	1				
58	S519	2.5 X 1.5 NBR70	2	123	S894L-R	CYLINDER - RIFLE REGULATED	1
		23 X 2.5 NBR90	4				
59	S836	23 X 2.5 NBR90	4	S894L	S894L	CYLINDER - RIFLE NON-REGULATED	1
60	RN232	BS022 NBR70	1				
62	TX228	M4 X 4 SKT SET FT PT	2	126	S924-BP	SPRING RETAINER	1
65	E645-3	RETAINING RING	1	127	S837	23 X 2.5 BACKUP RING	2
		FILLING VALVE	1	130	S365-BP	SPRING GUIDE	1
66	AF440	F/VALVE SPRING RETAINER	1	131	S360-BP	POT - (NON REG ONLY)	1
67	AF430	F/VALVE SPRING RETAINER	1				

