

# **the LOGUN S-16s**

## **INSTRUCTION MANUAL**

**the LOGUN S-16s**

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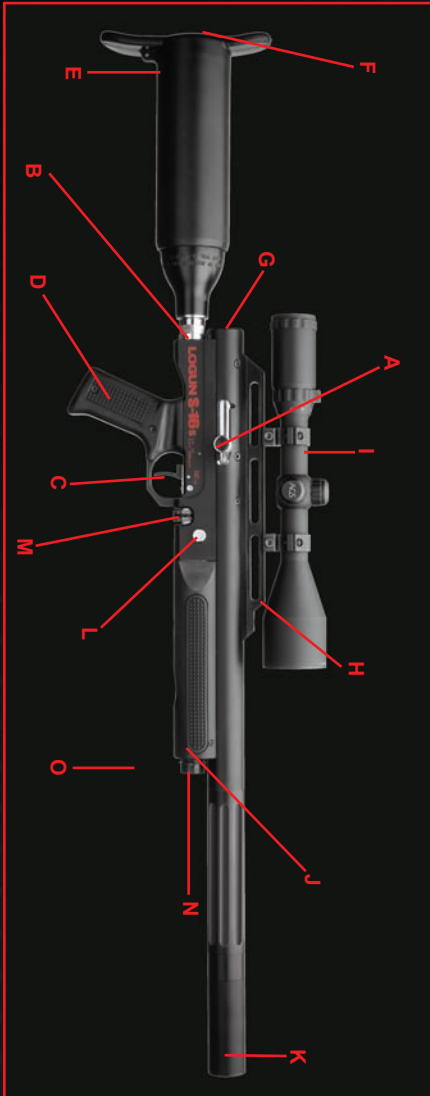
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### SERVICE RECORD

Your rifle must be serviced every two years by an approved Logun Service Centre. Failure to do so will invalidate the rifle's lifetime warranty.

Service Due Date	Date Serviced	Serviced By:	Service Centre Stamp



- KEY**
- A Fast Firing Bolt Action
  - B In-Line Valving System
  - C 2 Stage Trigger
  - D Shaped Rubbers Grip
  - E Buddy Bottle Power Plant
  - F Shaped Shoulder Plate
  - G Pressure Gauge
  - H Scope Rail
  - I Scope (Optional Extra) Note: Logun recommend Simmons scopes
  - J Forend
  - K Shrouded Barrel
  - L Mag Release Button
  - M 16 Shot Drop Magazine
  - N Logun TTD Laser (Optional Extra)
  - O Scope Rail

## Do's and Don'ts

**DO** clean your rifle with a synthetic spray such as Logun SL7 - apply spray to lint free cloth then wipe over rifle.

**DON'T** spray silicon spray directly onto the rifle as this could cause problems with the greases within the action and cause the gun to jam

**DON'T** leave the bottle valve exposed, always replace the dust cover.

**DO** use a synthetic grease such as Logun SG3 on the magazine O-rings. This will increase their lifespan and performance.

**DON'T** rely on the safety catch to provide guaranteed safety.

**DON'T** leave a pellet loaded in the rifle and remove the magazine from the rifle when you have finished shooting.

**DON'T** fill the bottle too quickly. If it is charged too fast it can dislodge the valve from its seat.

**DON'T** cock and fire the gun without the magazine being in place, doing so could damage the bolt probe O-ring.

**DON'T** use any silicone sprays or oil or grease on the gun.

**DON'T** use any mineral based oils or greases.

## PROBLEMS

In the unlikely event of your Logun S-16s showing signs of malfunctioning or of reduced performance, **DO NOT** attempt to rectify the problem yourself. Please call the Logun Service Line where they will either talk you through any simple rectification or arrange for the rifle to be returned to the Service Centre for repair.

Logun Service Line - ++ 44 (0)1902 738070

## LOGUN S-16s

### INSTRUCTION MANUAL

MODEL: S-16s

SERIAL No:.....

FILL PRESSURE: 200 BAR

CALIBRE:.....

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## Looking After Your Logun S-16s

Each Logun S-16s is built to provide a lifetime of high performance service and requires very little in the way of user maintenance beyond a wipe over with a synthetic oil impregnated cloth after every use.

In fact, the best way to keep your Logun operating perfectly is to do nothing at all except send it back to Logun every two years for a full service by our trained technicians. The carrying out of this service is a condition of the Logun S-16s Lifetime Warranty.

Your Logun S-16s is built almost exclusively from aircraft grade aluminium and stainless steel which all but eliminates the problem of rust suffered by many other airguns. However, a quick wipe over all metal surfaces with a lightly synthetic oiled rag will maintain a pristine appearance.

It is vital that the rifle is never dismantled or modifications made other than by trained Logun technicians. Such actions will be highlighted to our technicians through the examination of several anti-tampering devices built into the rifle. If any such evidence manifests itself, the rifle's lifetime warranty is invalidated.

### Lubrication

The Logun S-16s is designed to run maintenance free between annual factory services, at which time all necessary lubrication will be carried out. If the cocking bolt requires lubrication, use a very light smear of thin synthetic grease such as Logun SG1 on the mechanism. The appropriate grease can be obtained from your Logun stockist.

It is recommended that the trigger mechanism of your rifle remains as-lubricated by the Logun factory technicians.

### Note:

Over-lubrication of your Logun S-16s can result in the attraction and accumulation of dust and grit which can affect the performance of the rifle.

## Safety - The Logun S-16s

### SAFETY

To activate safety, push button above trigger to safe. When safety is on the trigger blade is locked. This ensures that the rifle does not fire. To release safety push button to opposite side for live. Rifle is ready to fire.

In addition to utilising the safety cross bolt, a loaded and cocked rifle can be made safe by opening the cocking bolt, pulling it back, and removing the magazine. Then, by pulling the trigger and pushing the bolt forward, the rifle will de-cock.



**CAUTION!** When de-cocking the rifle, be aware that a pellet may still be loaded in the breech.

If the magazine is unintentionally indexed remove the magazine from the rifle, close the bolt, point the rifle at a target and when safe to do so, fire the rifle. Refill the magazine and re-fit to the rifle.

When the rifle is not in use, ensure that a pellet has not been loaded into the barrel, remove the magazine and leave the bolt closed and un-cocked.

It is recommended that the magazine is stored separately from the rifle to prevent unsanctioned use.

If the gun is stored for any period of time we advise the bottle to be disconnected from the gun.

### SPARE O-RINGS

Each S-16s comes with four O-rings, these should only be used when necessary. Regular lubrication of the magazine O-ring will lengthen its life and increase the magazines performance.

O-rings included are:   2 x Magazine O-ring  
                                  3 x Bottle Valve O-ring

## Rules of Safe Shooting

- \* *Never* point a gun (even a BB gun) at a person.
- \* *Always* wear shooting/safety glasses and ensure all those with you wear them too.
- \* *Never* point a gun at anything other than your target.
- \* *Always* keep your gun on “safety” until you are ready to shoot in a safe direction.
- \* *Never* load your gun until you are ready to shoot.
- \* *Always* place your backstop in a location that will be safe should the back stop fail.
- \* *Never* shoot at a hard surface, water or anything that could cause a ricochet.
- \* *Always* check to see if a gun is on “safety” and unloaded when receiving it from another person or from storage.
- \* *Never* put a gun away loaded.
- \* *Always* be sure of your target and be certain your target has a safe back stop.
- \* *Never* re-use ammunition.
- \* *Always* ensure you use the correct calibre ammunition.
- \* *Never* rely solely on the safety catch to ensure safety.
- \* *Always* treat your gun as if it were loaded and with the appropriate level of respect a loaded firearm demands.
- \* *Always* read and follow the manufacturers manual and instructions.
- \* *Always* make sure you understand how the gun works prior to using it.
- \* *Always* keep your finger off the trigger and outside the trigger guard until you are ready to shoot.
- \* *Always* keep your gun in a safe place, ensuring no unauthorised person can use it.
- \* *Always* abide by national and local firearms regulations and laws.
- \* *Always* use correct greases and oils - Logun recommend only Logun Performance Products.
- \* *Never* use silicone oil or grease.

Shooting is probably the safest sport in the world but remember that misuse and careless use of guns can cause serious injury or death.

***Ask, listen, think - if in doubt - don't!***

## Getting Started

Your Logun S-16s requires the fitting of a telescopic sight or similar sighting device before use. Always ensure that the mounts used are sufficiently high enough to lift the objective bell of the scope clear of the rifle's barrel and action. Logun recommend AGS and Simmons scopes.

### CHARGING THE BOTTLE

1) Unscrew the bottle from the main body of the rifle. If some air is left in the bottle there will be a slight hiss of escaping air as the bottle disconnects. This is perfectly normal.



2) Attach the stainless steel bottle adaptor to the screw thread on the bottle. Screw the adaptor and bottle to the air hose of your charging equipment.

*\*PLEASE NOTE: YOU MAY DAMAGE THE END OF THE VALVE PIN IF YOU DO NOT USE THE CORRECT ADAPTOR SUPPLIED.*

3) With the adaptor securely fitted, fully charge your bottle to 200 BAR

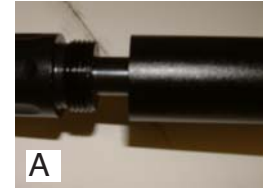


4) It is recommended that when charging the bottle the air flow is restricted to a slow flow. This is to prevent any overheating of air and bottle. If heat is felt the reading on the gauge will be incorrect.

5) When charging is complete, "bleed" off the excess air from the hose using the hoses's bleed screw. Then unscrew the bottle from the charging adaptor.

## Removing The Barrel For Cleaning

1) Unscrew the fluted shroud from the rifle. Picture A.



2) Remove the forend stock from the rifle by undoing the screw located underneath the forend. Picture B.

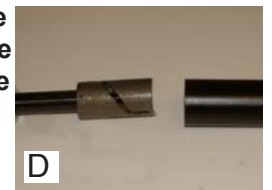


3) Remove the scope rail by undoing the two screws, one is located at the front of the rail the other at the back. Lift off the rail. Picture C.

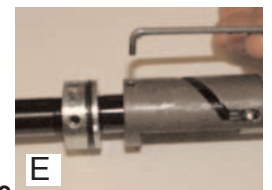


4) Remove the link rod. Note: The link rod has a definite front and back - it is not reversible. The front end is the longer of the two sections and is fitted at the muzzle end. The Back end is smaller and is fitted at the pressure gauge end.

5) Pull barrel away from gun. It is now free for cleaning. Picture D. CAUTION: do not use a pull through cleaning system, as this could remove the breech seal O-ring from the rear of the barrel. If the power of your rifle drops the breech seal may have been damaged and need replacing. If you experience a pellet jam due to poor quality pellets or poor cocking technique, never push the pellets back down the barrel as this will damage the breech seal. Remove the barrel and always push the obstruction forward out of the end of the muzzle.



6) To replace the barrel simply reverse the preceding steps. Note: The link rod needs to locate the correct way round and in the correct holes to operate properly. Picture E and F. E shows link rod position and location of rod once back in main body of rifle.



7) Once the link rod has been refitted replace the scope rail and tighten the two fixing screws, replace the forend and fluted shroud and the rifle is ready for use.



## Fitting a Laser

Using a 2.5mm allen key loosen the two allen bolts at the front end of the synthetic forend.

Push the plastic plug out of the aperture by applying pressure from underneath via the thumb aperture.

Push the laser into the aperture, it may be a tight fit and secure in place by replacing the allen bolts.

Zero the laser, using the 3 small screws at the front of the laser, with the zero of your scope.



## Replacing Magazine O-rings

Regular lubrication with Logun SG3 Grease of the magazines O-rings will keep them working for a long time but should they become damaged then the magazine will need stripping as follows. Unscrew the two allen bolts on the flat side of the magazine.

The 8 shot carriages are now free and using needle nose pliers the O-ring can be removed. Lubricate a new O-ring with a little SG3 grease and replace it around the carriage.

Reassemble the magazine making sure that the flat side of the carriages is against the ball bearings and the flat back plate has the recesses for the allen bolts showing.

*\*Please Note: Do Not Use Silicone Grease or Oils.*

## Stock / Bottle Cover Adjustment

Sometimes, having re-attached the bottle to the rifle the stock / bottle covers butt pad may be at an uncomfortable angle or undesired position. To adjust its position gently slide the cover backwards from the bottle for approximately 1 inch, this breaks the vacuum that can occur between the bottle and cover. The bottle cover can now be rotated into the desired position.

When the desired position is achieved slide the cover forward. If the cover does not move apply a pressure through the small hole in the back of the cover by blowing into it, this helps to release the rubber to bottle lock.

## Getting Started

6) Before attaching the bottle to the gun a small amount of Logun SG3 grease smeared around the bottle housing O-ring located inside the rifle body will increase the life of the 'O' ring.

7) Cock handle to middle position, before screwing bottle on.

8) Re-attach the bottle to the main body of the rifle.



## Loading The Logun S-16s

To remove the magazine, pull back the cocking bolt to the halfway position and press the stainless steel magazine release button. The magazine will then slide out of the bottom of the rifle so have your hand underneath to catch the magazine.

If you wish to use the second half of the magazine invert the magazine and slide it back into the magazine chamber in the rifle's body until you hear a click. The rifle is ready to be cocked, and if safe to do so, aim and fire.



To load pellets into the magazine, remove as above. Load pellets nose first into the recessed side of the 8 shot drum magazine - (the flat side). Push the pellet nose through the retaining rubber O-ring until its skirt lies flush or below the bottom of the magazines rear face.

*NOTE: The O-ring on the magazine needs to be regularly lubricated with synthetic grease. This helps to prolong the life of the O-rings and the cocking feel of the rifle.*

Click the magazine cylinder clockwise for one click and insert the next pellet. Repeat the process until all chambers are full, one half of the magazine holds eight pellets.

We strongly advise Logun SG3 Grease to be used to give the best performance on all 'O' rings.



## Loading The Logun S-16s continued

Having filled one half of the magazine, invert and fill the second half.

Once the magazine has been fully loaded refit it to the rifle by sliding back into the magazine chamber until it clicks.

Engage the safety cross-bolt. To load a pellet into the rifle draw back the cocking bolt. In the process of drawing back the bolt you will automatically depress the cocking bolt catch. Having drawn the bolt fully backwards, slide it fully forwards until the cocking bolt catch engages.

### NOTE

**THE BOLT MUST BE FULLY FORWARD AND THE LOCKING CATCH ENGAGED FOR THE RIFLE TO PERFORM PROPERLY**

The rifle is now cocked and loaded. To fire, disengage the safety cross-bolt by pushing it from the right so it protrudes on the left side of the rifle and, if safe to do so, take aim and squeeze the trigger.

To load the next pellet, draw the cocking bolt fully back and then slide it fully forward until the cocking bolt catch engages. This indexes the magazine and the sear connects with the hammer assembly.

Each half of the magazine contains eight pellets. After firing eight pellets, remove the magazine, invert it and refit. Eight more pellets are ready to be aimed and fired.

NOTE: IF THE 'O' RING ON THE MAGAZINE BECOMES DRY, LOADING OF PELLETS INTO THE RIFLE CAN BECOME TIGHT RESULTING IN POOR LOADING. LUBRICATION (SYNTHETIC GREASE) IS RECOMMENDED ON THE 'O' RING.

DO NOT PUSH THE COCKING BOLT FORWARD UNTIL YOU ARE READY TO USE THE RIFLE. THE SAFETY CROSS BOLT IS AN ADDITIONAL SAFETY DEVICE BUT SHOULD NEVER BE RELIED UPON TO PROVIDE AN ABSOLUTE GUARANTEE AGAINST THE RIFLE FIRING.

## Adjusting The Trigger

Make sure the rifle is unloaded by removing the magazine and ensure there are no pellets in the breech. Remove the air bottle and apply the safety cross-bolt. Invert the rifle and secure in a rifle stand or similar stabilising device.

For setting safety only - do not adjust

### First Stage Adjustment

The adjustment screw for the first stage is situated under the trigger blade. Remove the trigger blade use a 2.0mm Allen Key and this will reveal the adjustment screw, use a 1.5mm Allen Key. Once adjusted refit the trigger blade.



### Second Stage Adjustment

Second stage adjustment screw is accessed through the recess behind the trigger block, nearest to the pistol grip. The screw is adjusted clockwise to reduce sear contact and lighten trigger pull and anti-clockwise to increase weight of trigger pull.

### NOTE

Care must be taken when adjusting the second stage, because if it is set too light the cocking action of the rifle will override the sear and the trigger will not set, making the rifle inoperative. If this does occur you must remove the magazine to avoid double loading and then set to a heavier setting. Any adjustments made to the trigger screws could remove the locking agents from the threads. Re-application of Thread-Lock is necessary once adjustments have been finalised.

## Fitting the Additional Ultra Shroud

Shrouded barrel and Ultra shroud components should be assembled in the order shown in the diagram.

