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1.0 Introduction

1.1 What Is Covered Within This Manual

- 1.1.1 The information contained within this manual will provide the user with sufficient instruction for the continual safe usage of the AE rifle.
- 1.1.2 Maintenance and repair instruction beyond what the user could be expected to conduct using the standard user tool/cleaning kit is not covered within this document.

The user should attempt no weapon stripping beyond that mentioned herein.

- 1.1.3 This manual assumes a basic level of user familiarity with shooting.

- 1.1.4 Note: - The manual has been written assuming the user is right handed.
Operating instructions may need to be varied to accommodate a left handed user

1.2 Accuracy International

- 1.2.1 Accuracy International was formed in 1978 to design and build tactical rifles.

The original design ethos combined two factors into a unique package. Namely the incorporation of performance enhancing features learned in Olympic and international target shooting onto a platform exhibiting full military ruggedness.

The current designs faithfully follow this original concept but also benefit from over twenty years of continuous improvement.

These improvements are not cosmetic but are driven solely by the needs of the users, highly trained military and police units in over 50 countries worldwide.

Such units are exposed to 'live' tactical situations on a daily basis and in the most demanding environments where first shot accuracy is critical.

The rifles are produced in a purpose built 20,000sq. ft. facility in the UK, operating a management system certificated to BS EN ISO9001.

All components are manufactured to Accuracy International's designs to ensure that they are optimised for the function they must perform, something that cannot be achieved with a ruggedised-sporting weapon.

1.3 General Description – Rifle

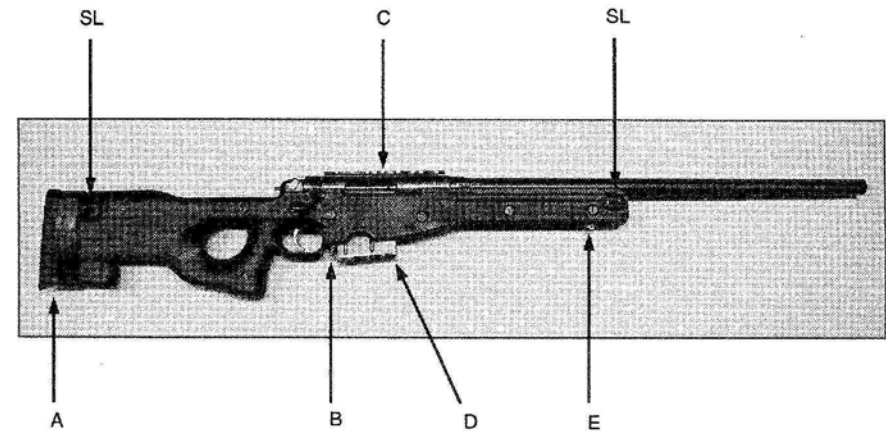
- 1.3.1 The AE sniper rifle is a bolt-action single shot rifle with free-floating barrel and a magazine capacity of five rounds.

It is made to the same standards as the highly renowned AW tactical rifles, but is designed for law enforcement where full military specification is not an advantage.

2.0 Technical Specification – Rifle

Calibre:	0.308 Win (conforming to International CIP/SAAMI regulations)
Weight:	6 kg (13lb 4oz)
Length Overall:	1200 mm (44")
Action:	Steel, front locking, seperate Mil Std 1913 rail
Bolt:	60° opening, three lugs, 6.5 mm (.256") striker fall
Trigger:	Two stage adjustable, set between 1.5 kg to 2 kg (3lbs 5oz to 4lbs 7oz)
Safety Mechanism:	'Safe' and 'Fire' modes only. 'Safe' draws back and blocks the firing pin for maximum security.
Barrel:	610 mm (24") Stainless steel match grade 1:12 twist fitted
Stock:	Alloy chassis enclosed in scuff resistance stock sides. Fitted with sling loops.
Magazine:	Detachable box type containing five rounds
Carriage	Four sling loops allowing hand & shoulder sling or biathlon style harness for backpack style carriage
Headspace Sizes	
GO	41.40 mm (1.630")
NO GO	41.60 mm (1.638")

3.0 Top Level GA/Parts Identification



- | | | | |
|---|------------------------|----|------------------------------|
| A | Butt Pad | E | Harris Bipod Adaptor |
| B | Magazine Release Catch | SL | Sling Loop Attachment Points |
| C | MIL-STD 1913 Rail | F | Bolt Release Catch |
| D | Magazine | G | Safety Lever |

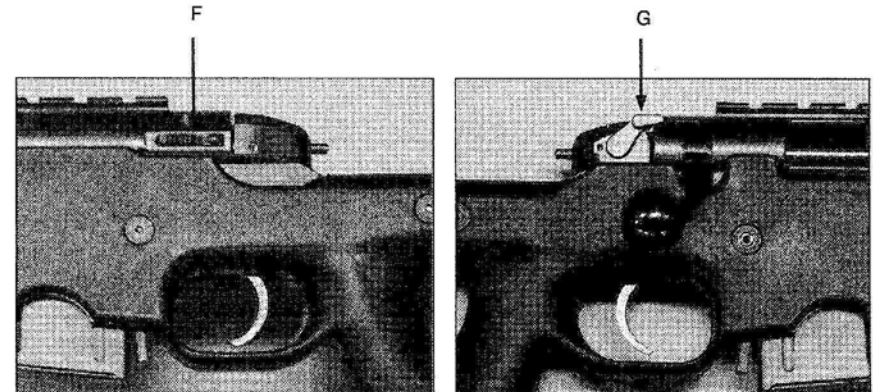



Fig. 01 General Arrangement/Parts Identification

4.0 Safety

4.1 General

- 4.1.1 **This manual must be read and fully understood before attempting to use the weapon system.**
- 4.1.2 From time to time the manual uses cautionary notices to alert the user to either safety imperative or potential instances which may result in causing damage to the weapon system, as shown below: -

- 4.1.3  The safety precautions set out under section 4.5 "Safe Handling Instructions", must be strictly adhered to, when: -
- On initial receipt of weapon
 - Before operating the rifle
 - After use before maintenance
 - Before any inspection
 - When the documentation recommends it
- CAUTION**

4.2 Safe Storage

- 4.2.1 When not in use the rifle should be kept, in an unloaded condition, in a locked steel cabinet.
- 4.2.2 The bolt and any ammunition should be stored in a separate locked steel cabinet to that of the rifle.

4.3 Protection


- 4.3.1 When firing the rifle, eye and ear protection should be worn at all times.
- 4.3.2 **NEVER** handle or use a firearm whilst under the influence of alcohol or medication.
- 4.3.3 Always wash your hands after handling the rifle or ammunition. Ammunition contains lead.


4.4 Maintenance Of The Rifle

- 4.4.1 **NEVER** make adjustments to the rifle. The user should not conduct any more maintenance other than routine cleaning and lubrication of its external surfaces.
- 4.4.2 Have the rifle checked periodically by a qualified Gunsmith / Armourer.
- 4.4.3 Return the rifle to Accuracy International for checking if you are ever unsure of its condition.
- 4.4.4 Ensure that the rifle is barrel is cleaned and clear from obstructions prior to firing, see section 6.0 User Maintenance and 4.7 "Checking That The Bore Is Free Of Obstructions".


4.5 Safe Handling Instructions

- 4.5.1 It is forbidden without any reason to point the rifle at anybody.
- 4.5.2 When users are unaware of the weapon status (half loaded, loaded or unloaded), it should always be assumed that it is **LOADED**.
- 4.5.3 A weapon which is to be handed over must be presented unloaded and with the bolt open, in the rearwards position.


- 4.5.4  Before handling the rifle or attempting any operation, the user must ensure theirs and the safety of others by: -
- Standing behind the weapon
 - Ensuring it is pointing in a safe direction
 - Checking it is unloaded and safe to handle
- CAUTION**

- 4.5.5  **NEVER** fire the rifle before you have ensured rifle that the serial numbers of the action body, shroud and bolt assembly are the same.
- CAUTION**

- 4.5.6 Failure to fully close the bolt every time the bolt is manipulated could result in a live round being left in the chamber, as the extractor does not engage the cartridge rim unless the bolt is fully closed.


- 4.5.7  When operating the bolt **ALWAYS** cycle fully i.e. completely open and close the bolt every time it is manipulated.
- CAUTION**

- 4.5.8 Tactical movements with a loaded weapon are only to be performed with the safety lever set to the 'SAFE position' (so that the white dot is visible).

- 4.5.9  Any firearm can still be discharged, even with the safety mechanism engaged, if it is handled carelessly.
- CAUTION**

4.6 Checking That The Rifle Is Unloaded


- 4.6.1 Remove the magazine from the rifle, see section 5.3 "Insertion & Removal Of The Magazine" and ensure it is clear of ammunition.
- 4.6.3 Raise the bolt handle and slide the bolt fully to the rear.
- 4.6.4 Check that the action is clear of ammunition by looking through the ejection port and using a finger to feel inside the chamber.
- 4.6.5 The bolt should be left open or removed whilst handling rifle, see section 5.2 "Fitting & Removal Of The Bolt".
- 4.6.6 To close the bolt without causing unnecessary stress on the firing pin and bolt assembly, pull the trigger shoe and whilst holding it to the rear, fully close the bolt before releasing the trigger.
- 4.6.7 Replace an empty magazine in the weapon. The rifle may now be handled safely.

4.6.8  Before firing the rifle, always check the bore is free of obstructions.
CAUTION

4.7 Checking That The Bore Is Free Of Obstructions

- 4.7.1 Check that the rifle is unloaded, see section 4.6 "Checking That The Rifle Is Unloaded".
- 4.7.2 Remove the bolt, see section 5.2 "Fitting & Removal Of The Bolt"
- 4.7.3 Look through the barrel to ensure that it is free from obstructions and then replace the bolt.

4.8 Clearing A Bore Obstruction

4.8.1  **NEVER** try to remove a bore obstruction by loading and firing another round.
This may cause the barrel to burst or a cartridge to rupture, potentially causing serious personal injury or even fatality.
CAUTION

- 4.8.2 Remove the bolt, see section 5.2 "Fitting & removal of the bolt" and insert a rod guide into the rear of the action.
- 4.8.3 Push a cleaning rod through the barrel from the chamber end to remove the object.
- 4.8.4 Clean the barrel, see section 6.0 User Maintenance and inspect the barrel for any signs of damage.
- 4.8.5 If the object cannot be easily removed with the cleaning rod or the barrel is damaged return the rifle to a qualified Gunsmith / Armourer.

4.9 Safety Mechanism Operation

4.9.1 The AE Series Rifle has two modes of operation: -

- Safe
- Fire

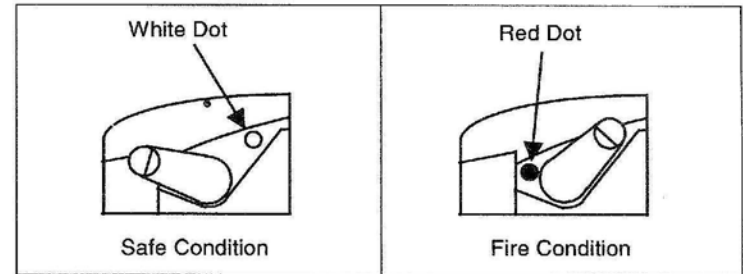



Fig. 02 Safety Mechanism

4.9.2  There is only one position where the rifle is safe.
This is when the safety lever is pulled **FULLY** rearwards so that **ONLY** the 'white' dot is visible.
CAUTION No other position is safe.

- 4.9.3 The safety mechanism can only be applied after the rifle has been cocked.
- 4.9.4 With the safety mechanism applied the firing pin is withdrawn and is physically blocked from coming forward.
- 4.9.5 To engage the safety mechanism, move the safety lever (located on the right hand side of the bolt assembly) fully rearwards so that only the white dot is visible.
- 4.9.6 To disengage the safety mechanism, move the safety lever fully forward so that only the red dot is visible. The rifle will now fire when the trigger is pulled.

4.10 Checking The Firing Pin's Safe Operation

- 4.10.1 Check to ensure that the rifle is not loaded, see section 4.6 "Checking That The Rifle Is Unloaded".
- 4.10.2 Open and close the bolt to leave it in the cocked position.
- 4.10.3 Move the safety lever into the "SAFE" position.
- 4.10.4 Pull and release the trigger 6 times and remove your finger from the trigger.
- 4.10.5 Push the safety lever forward into the "FIRE" position.
- 4.10.6 If the rifle is operating correctly the firing pin should not be released; it will still be retained by the trigger mechanism.
- 4.10.7 Pull the trigger to release the firing pin.
- 4.10.8 If moving the safety lever to the "FIRE" position releases the firing pin; then the rifle is deemed to be unsafe and must be returned to a qualified Gunsmith / Armourer for maintenance.

5.0 Operating Instructions – Rifle**5.1 Assembling The Rifle**

- 5.1.1 Rifles are normally supplied packaged with the magazine fitted and the bolt separate. The bolt will need to be fitted, using the instructions below.

5.2 Fitting & Removal Of The Bolt

- 5.2.1 Check that the serial numbers of the action body, shroud and bolt are the same. If they are different do not fit the bolt and contact Accuracy International or local Armourer.
- 5.2.2 Fit the bolt into the bolt way and whilst depressing the bolt release catch, slide the bolt fully forwards.
- 5.2.3 Release the bolt catch, pull the trigger shoe and whilst holding it to the rear, close the bolt before releasing the trigger shoe.
- 5.2.4 To remove the bolt, hold the bolt handle in the right hand. Raise the handle and slide the bolt rearwards until it stops on the bolt catch.
- 5.2.5 Using the left hand, depress the bolt release catch and fully withdraw the bolt from the action.

5.3 Insertion & Removal Of The Magazine

- 5.3.1 The box magazine is inserted by locating it into the opening in the underside of the rifle.
- 5.3.2 Hold the magazine by its base using the left hand and push it upwards until the catch engages.
- 5.3.3 Correct engagement can be assured on hearing an audible 'click' when the magazine is pushed home.
- 5.3.4 Alternatively, when operational the user can reduce the noise made inserting the magazine by holding the magazine release catch open whilst the magazine is pushed home.


5.3.5



Always check that the magazine has been correctly engaged and is secure, by pulling down on the base plate.


- 5.3.6 To remove the magazine, push the magazine release catch forward with the thumb of the right hand, whilst holding the left hand underneath the magazine to support it as it comes away from the rifle.


5.4 Preparing To Fire The Rifle

- 5.4.1  Ensure that the rifle has been correctly cleaned and lubricated before use, see section 6.2 "Cleaning & Lubricating Before Firing" and 6.3 "Cleaning The Barrel & Chamber Before Firing".
Whenever loading, reloading or unloading ensure that the fingers are kept outside of the trigger guard.

5.5 Loading

- 5.5.1 To load the rifle, place a full magazine into the magazine well.
- 5.5.2 Push the magazine upwards until the magazine retaining catch engages on the magazine's lug.
- 5.5.3 If the bolt is in the closed position, open the bolt by fully raising the bolt lever and pulling it backwards until it reaches its stop.
- 5.5.4 To feed a round from the magazine into the chamber, push the bolt lever fully forward and then down into the closed position.

- 5.5.5  The rifle is now cocked and is able to be fired. The safety lever should be applied as necessary.

- 5.5.6  The extractor does not engage the cartridge rim unless the bolt is fully closed.
Failure to fully close the bolt every time that it is manipulated could result in a live round being left in the chamber.

- 5.5.7 Note: - If it is difficult to get the magazine to engage with the bolt closed or the first round is difficult to feed into the chamber check that the magazine has not been over loaded.

5.6 Firing & Operating The Bolt

- 5.6.1 The sequence detailed below assumes that the user has already identified the target and made the relevant adjustments to optimise whichever sighting system is being employed.
- 5.6.2 Move the safety lever to the "Fire" position.
- 5.6.3 Place the finger naturally on the trigger **without** pulling it.
- 5.6.4 Whilst taking a few deep breaths take up the first pressure.
- 5.6.5 Breathe out normally and perfect the aim, whilst applying a gradual increase of trigger pressure to fire.
Note: - Exhaling reduces pulse beat whilst in the prone position on the ground.
- 5.6.7 Maintain trigger pressure and concentration on the aim until the weapon recovers from the recoil (follow through).
- 5.6.8 Release the trigger, resume normal breathing and observe the target.
- 5.6.9 To minimise the movement of the rifle and body (right handed users only) remain in the aim position during recycling.
- 5.6.10 Place a thumb on the top of the action and grasp the bolt handle with the fingers of the right hand.
- 5.6.11 Bring the fingers up towards the thumb. If any resistance is felt during the initial unseating of the fired case (primary extraction), increase the upward pressure on the bolt handle.
- 5.6.12 Pull the bolt to its most rearward position i.e. to touch the bolt stop, to allow the fired case to be ejected and to pick up the next round.
- 5.6.13 Push the bolt forward to feed the next round into the chamber and close the bolt.
- 5.6.14 Repeat this sequence of operation if further shots are necessary.

5.7 Failure To Fire

- 5.7.1 Should the rifle fail to fire, wait for two minutes (in case of a delayed fire) before opening the bolt fully, to eject the round.
- 5.7.2 Check to ensure that the rifle is unloaded; see section 4.6 "Checking That The Rifle Is Unloaded".
- 5.7.3 Check to ensure that the barrel is not obstructed and take relevant action to clear any obstruction, see 4.7 "Checking That The Bore Is Free Of Obstructions" and 4.8 "Clearing A Bore Obstruction".
- 5.7.4 If the problem persists, the rifle should be checked by a qualified Gunsmith / Armourer.

5.8 Reloading


- 5.8.1 Remove the expended magazine and insert a fresh one, see section 5.3 "Insertion & Removal Of The Magazine"
- 5.8.2 Close the bolt to feed a new round into the chamber.
- 5.8.3 Move the safety lever to the "Safe" position.
- 5.8.4 The rifle is now loaded, cocked and ready to engage a new target.

5.9 Unloading

- 5.9.1 Remove the magazine from the rifle.
- 5.9.2 Open the bolt and pull it to its most rearward position i.e. to touch the bolt stop, to allow the fired case to be ejected.
- 5.9.3 Check that the rifle is clear of ammunition by looking through the ejection port and using a finger to feel inside the chamber.
- 5.9.4 The bolt should be left open, unless the rifle is to be put into its transit case, in which case: -
- 5.9.5 Pull the trigger shoe and whilst holding it backwards, close the bolt before releasing the trigger.
- 5.9.6 Replace an empty magazine in the weapon.

5.10 Unloading A Live Cartridge

- 5.10.1 Set the safety lever as necessary to the "Safe" position.
- 5.10.2 Remove the magazine from the rifle
- 5.10.3 Cup the right hand and position it just to the side and below the ejection port to catch the round as it is ejected.
- 5.10.4 Using the left hand reach over the rifle and cycle the bolt to unload the chamber.
- 5.10.5 Check that rifle is clear of ammunition by looking through the ejection port and using a finger to feel inside the chamber.
- 5.10.6 The bolt should be left open, unless the rifle is to be put into its transit case.
- 5.10.7 Where the rifle is to be stored with the bolt in the closed position, pull the trigger shoe and whilst holding it to the rear, close the bolt before releasing the trigger.

5.10.8  All live rounds **MUST** be removed from the magazines (either in the rifle or separate) prior to being stored.

CAUTION

5.11 Disassembling The Rifle

- 5.11.1 The user should not disassemble the rifle further than that described within this section.
- 5.11.2 Under no circumstances should the user conduct any more maintenance other than routine cleaning and lubrication of its external surfaces.
- 5.11.3 A qualified Gunsmith / Armourer should carry out all further maintenance. If doubt the user should seek the Gunsmith / Armourer's advice.

5.12 Stripping & Reassembling The Bolt

- 5.12.1 Remove the bolt assembly from the rifle, see section 5.2 "Fitting & Removal Of The Bolt".
- 5.12.2 To strip the bolt assembly, hold the bolt body in the left hand, positioning the thumb over the bolt handle and grasp the shroud in the right hand, see Fig. 03 "Stripping The Bolt Assembly".

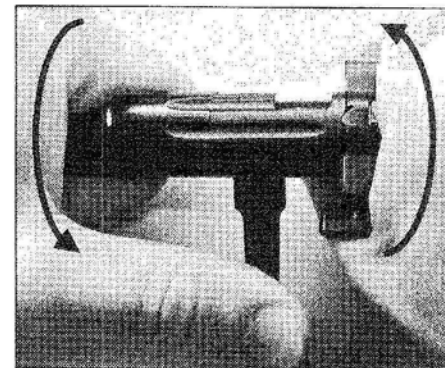



Fig. 03 Stripping The Bolt Assembly

- 5.12.3 Rotate right hand (holding the shroud) clockwise and the left hand (holding the bolt) anticlockwise, until shroud/firing pin assembly is released.
- 5.12.4 Withdraw the shroud/firing pin assembly from the bolt.

5.12.5  Further stripping is should only be attempted by a suitably qualified Gunsmith / Armourer.

CAUTION

- 5.12.6 Before reassembling the bolt, lubricate the shroud/firing pin assembly with suitable light oil.

- 5.12.7 To reassemble the bolt, insert the shroud/firing pin assembly back into the bolt body aligning that the shroud retaining lugs with the opening in the bolt body, see Fig. 04 "Refitting The Shroud/Firing Pin Assembly Back Into The Bolt Body".

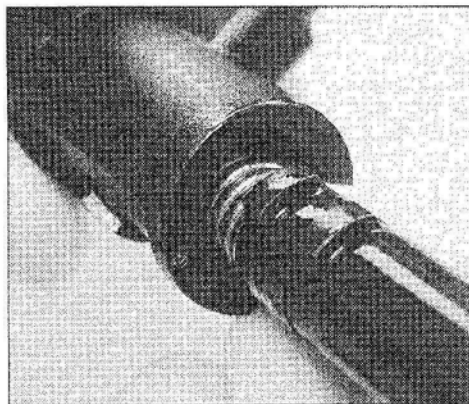


Fig. 04 Refitting The Shroud/Firing Pin Assembly Back Into The Bolt Body

- 5.12.8 Holding the shroud assembly in the left hand and the bolt body in the right, push the cocking piece against the bolt body to compress the firing pin spring, see Fig. 05 "Compressing The Firing Pin Spring".

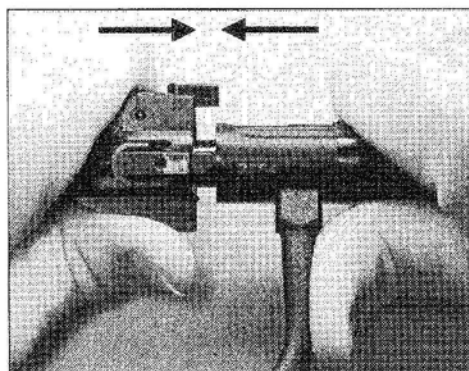


Fig. 05 Compressing The Firing Pin Spring

- 5.12.9 As the firing pin spring is compressed, rotate the right hand (holding the bolt) anticlockwise and the left hand (holding the shroud) clockwise, until cocking piece engages in the detent, just before the fire position, see Fig 06 "Cocking Piece/Bolt Body Dent Engagement".

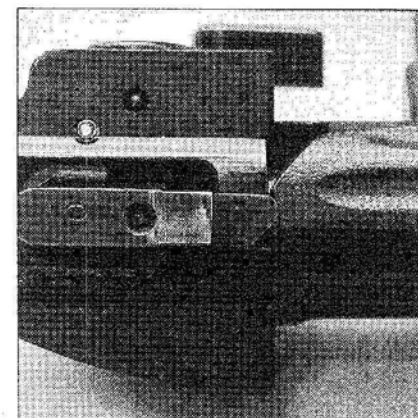


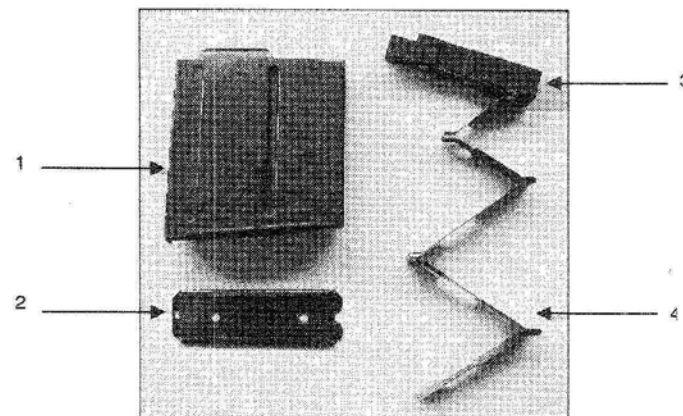
Fig. 06 Cocking Piece/Bolt Body Dent Engagement

- 5.12.10 Lubricate the outer surface of the bolt body with a suitable grease and refit the bolt assembly into the rifle, see section 5.2 "Fitting & Removal Of The Bolt".

5.13 Stripping & Reassembly Of The Magazine


- 5.13.1 Magazines should be stripped if and when they have been exposed to conditions likely to result in a build up of mud, grit or rust.

Care should be taken not to damage the magazine platform or to bend the round securing ears from their original form.



- | | | | |
|---|---------------|---|----------------------------|
| 1 | Magazine Body | 3 | Magazine Platform Assembly |
| 2 | Base Plate | 4 | Magazine Spring |

Fig. 07 Stripping The Magazine

- 5.13.2  The magazine platform is under tension.
Keep a hand over the opening when removing the bottom plate, to prevent the spring from 'jumping out'.
- CAUTION**

- 5.13.3 To strip the magazine, hold it in the left hand with the bottom plate uppermost.
- 5.13.4 Insert a flat bladed tool in the gap between the magazine wall and base plate. Carefully, lever plate forwards until the detent in base plate is released from the magazine's wall.

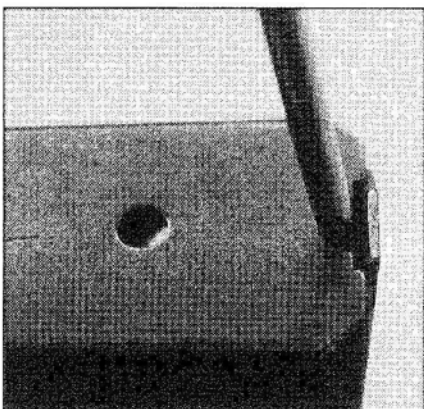


Fig. 08 Stripping The Magazine – Removing The Base Plate Stage 1

- 5.13.5 Remove the tool and whilst holding the right hand over the bottom of the magazine, slide the bottom plate completely off.

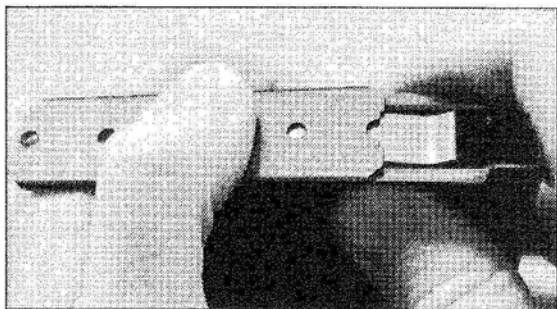


Fig. 09 Stripping The Magazine – Removing The Base Plate Stage 2

- 5.13.6 The spring is now released; **slowly** lift the right hand away, taking hold of the spring as it uncoils from the magazine.

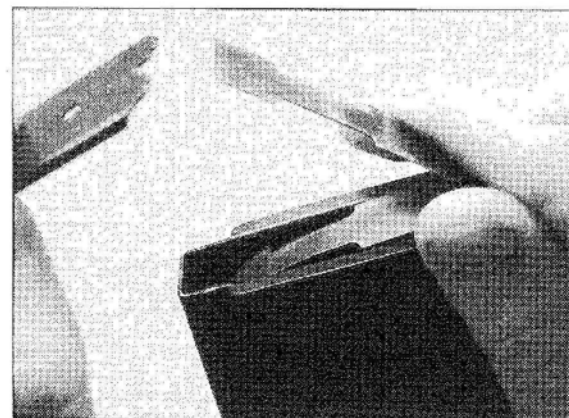



Fig. 10 Stripping The Magazine – Removing The Spring Assembly

- 5.13.7 Carefully feed the spring out of the magazine so not to damage the attached platform.
- 5.13.8 To reassemble the magazine, insert the magazine platform and spring ensuring they are correctly aligned with the magazine's profile.
- 5.13.9 Whilst retaining the spring inside the magazine, slide the base plate back onto the base of the magazine.
- 5.13.10 Push the base plate firmly against a solid surface to lift the detent in the base plate over the magazine wall until it clicks into home.
- 5.13.11 Operate the magazine several times to ensure that the platform depresses correctly and freely.

5.14 Tests After Re-assembly

- 5.14.1  ONLY specially prepared "dummy" rounds should be used to conduct this test.
- CAUTION**

- 5.14.2 Load the magazine with inert test rounds, to its fullest capacity.
- 5.14.3 Whilst loading check to ensure that the lips of the magazine hold each round in position.
- 5.14.4 Load the magazine into a functional rifle.
- 5.14.5 Operate the bolt and check that each round is fed in, extracted and ejected correctly.

6.0 User Maintenance – Rifle

6.1 General

6.1.1 This section only covers the level of maintenance that the user would be expected to perform using the tools supplied with the rifle.

It recognises that a user is unlikely to be able to conduct the same level of maintenance whilst operational.

Complete maintenance procedures are defined in the Maintenance Manual

6.1.2 To ensure the rifle is not damaged whilst being cleaned and lubricated only the recommended tools, cleaning materials and lubricates should be used in accordance with these instructions.

6.1.3 No abrasive material should be used on any part of the rifle. If cleanliness cannot be achieved using the methods and materials described below the fault should be referred to a qualified Gunsmith / Armourer.

6.1.4 If while cleaning and lubricating the rifle the user identifies any faults or damage, it should be referred to a qualified Gunsmith / Armourer.

6.2 Cleaning & Lubricating Before Firing

6.2.1 Before firing the rifle it must be cleaned and lubricated as detailed below: -

Part	Lubrication Status
Bore, chamber & barrel - Exterior	N/A - Leave dry
Bore, chamber & barrel - Interior	Clean and leave dry, see section 6.3 "Cleaning The Barrel & Chamber Before Firing".
Bolt – Front face	Clean and leave dry
Bolt - Remaining surfaces	Lightly lubricate with CLP 16 oil
Action body	Lightly lubricate the inside surfaces with CLP 16 oil
Stock	N/A - Leave dry

6.3 Cleaning The Barrel & Chamber Before Firing


6.3.1 The use of a pull through is not recommended. The preferred option is to use a cleaning rod.

6.3.2 Care must still be exercised when using the cleaning rod to avoid causing damage to the bore and chamber.

6.3.3 The potential for chamber wear can be greatly reduced by using a rod guide to ensure that the cleaning rod is held in the in the centre of the bore.


6.3.4 Securely hold the rifle on a level plane by a suitable means, ideally between the protected jaws of a bench vice, where available.

6.3.5 Depress the bolt release catch and remove the bolt, see section 5.2 "Fitting & Removal Of The Bolt".

6.3.6  To avoid damaging the muzzle, the cleaning rod must always be inserted from the breech end.
CAUTION

6.3.7 Gently push the rod guide through the action and into chamber until a click is heard, signifying that the bolt catch has engaged.

6.3.8 Ensure the rod is clean before affixing a clean patch (10 cm x 5 cm) via a jag or the patch holder.

6.3.9  When cleaning the bore with patches, always work in one direction, breach to muzzle.
DO NOT pull used patches back through the bore.
CAUTION


6.3.10 Moisten a patch with Bore Solvent and push it once through the bore (via the rod guide) and of the muzzle to wet the bore.

6.3.11 Remove the soiled patch from the cleaning rod. **DO NOT** attempt to pull the patch back through the bore.

6.3.12 Remove the jag or the patch holder from the cleaning rod and refit with a correct sized phosphor bronze brush.

6.3.13 Whilst the bore is still wet, wet the brush with solvent and pass it completely through the bore in each direction several times.

Repeat with fresh solvent if necessary.

- 6.3.14  Always wet the bore with a patch before using a brush.

CAUTION

- 6.3.15 Refit the jag or patch holder to the cleaning rod and pass through a clean patch to dry the bore and chamber.

Remove the patch at the muzzle **DO NOT** pull it back through the bore.

Repeat this operation if necessary, until the patches come out clean (a light grey smudge is acceptable).

- 6.3.16 Where the rifle is to be stored for a lengthy period or when in a corrosive atmosphere a thin smear of oil should be left in the bore.

- 6.3.17 Moisten a patch with CLP 16 oil and pass it once through the bore.

6.4 Cleaning & Lubricating After Firing

- 6.4.1 It is recommended that the barrel's bore and chamber; together with the gas affected parts should be cleaned, inspected and lubricated after each shooting.

- 6.4.2 The bore and chamber are easier to clean immediately after shooting, whilst the barrel is still warm.

- 6.4.3 Where this is not possible, the bore and chamber should be thoroughly oiled with CLP 16 oil or similar to assist later cleaning.

6.5 To Clean Heavy Copper Fouling

- 6.5.1 Heavy copper fouling may be seen from the muzzle as a copper coloured residue between the lands, although the heaviest fouling will occur towards the chamber.

Note: - This operation may not be required for every cleaning.

- 6.5.2 Clean the bore and chamber as above, see section 6.4 "Cleaning & Lubrication After Firing".


- 6.5.3 Remove the jag or the patch holder from the cleaning rod and refit with a correct sized phosphor bronze brush.

- 6.5.4 Allow the solvent to penetrate for approximately 5 minutes.

- 6.5.5 Refit the jag or patch holder to the cleaning rod and pass through a clean patch to dry the bore and chamber.

Remove the patch at the muzzle **DO NOT** pull it back through the bore.

Heavy fouling will show as blue on the patch. Repeat this operation as necessary until the patches come out clean.

- 6.5.6  Solvents must be used sparingly; any excess spillage outside of the barrel must be removed immediately.

CAUTION

7.0 Recommended Lubricates & Cleaning Solutions

Lubricant / Cleaner	Part Number	Typical Uses
CLP16 oil	AI15-0968	General cleaning and lubrication of action and rifle exterior.
Penetrating oil ZX-54	8030-99-923-1633	Lubrication of the trigger.
Grease XG 279	8030-99-220-2418	Parts inside the shroud.
Breakfree Bore Cleaner	BC4	Bore solvent

8.0 Accuracy & Ammunition

8.1.1 All of Accuracy International's sniper rifles are capable of very fine accuracy and consistent first shot capability.

However, this performance is reliant on the quality and capability of the ammunition used.

No matter how good the rifle is it will only shoot to the capability of the ammunition.

For optimum results Match grade ammunition with specified accuracy capability should be used.

9.0 User Tips

- Obtain a shooting position where the bolt can be manipulated without head movement and which minimises rifle movement.
- Practice movements that are slow and smooth when using the rifle as a hide may be compromised by rapid, jerky movements.
- When holding the breath during firing it is better to exhale rather than inhale. This reduces pressure on the abdomen and reduces pulse.
- Press the thumb of the right hand on top of the action to aid leverage when opening the bolt to assist the removal of tight extractions.
- ALWAYS** ensure that the bolt is fully closed before reopening so that any live round that is already in the chamber, will be gripped by the extractor and ejected.
- When cycling the bolt for repeat shots, **ALWAYS** ensure that bolt is retracted fully rearwards i.e. to touch the bolt stop, to minimise the chance of a misfeed.
- Watch for the fall of the shot in case a quick follow up shot is necessary.

