HK UMP .45/40 & 9mm
Armorer's Manual

INTERNATIONAL
TRAINING SERVICES

General Information

The UMP (**U**niversal **M**achine **P**istol) submachine gun is a select-fire small arm manufactured according to the latest manufacturing methods. With the exception of the barrel, bolt and certain internal component parts, the UMP is constructed almost entirely from tough, lightweight glass-fiber, reinforced polymer. The UMP magazines, also made of high strength polymer, feature a transparent ammunition-viewing strip that allows the user to see the type and quantity of ammunition inside.

The UMP is a simple blowback operated weapon and fires from the safety of a closed bolt with an accurate range of 100 yards or more. A passive internal firing pin block within the bolt prevents the weapon from firing if dropped.

Due to its small size (less than 18 inches with the buttstock folded) and 4.5 pounds unloaded weight, the UMP is the perfect choice for use in confined areas.

The UMP is designed and tested to fire all types of .45 ACP and .40 S&W ammunition – including subsonic loads, cartridges assembled with ball, high performance hollowpoint projectiles, and even enhanced velocity +P offerings. The UMP also fires non-toxic and frangible training ammunition without modification.

Disassembly of the UMP is easy. The weapon field strips into three subassemblies with the removal of a single locking pin, making cleaning and maintenance fast and simple.

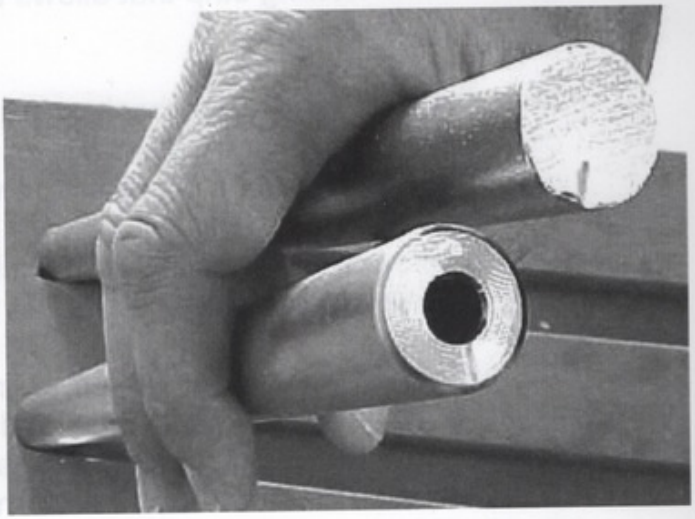
	Caliber	*Cyclic Rate*	*Mag size*	*Mode of fire*	*Sights*	*Width (in.)*	*Height (in.)*	*Weight (lb.)*	*Barrel length*	*Overall length (in.)*
UMP45	.45	700 rpm w/185 gr +P 580 rpm w/230 gr ball	25	S,F, 2 rd burst	Iron, flip notch or peep	2.50	8.62	4.63	7.87	17.71/27.17
UMP40	.40	745 rpm	30	Same	Same	2.50	8.62	4.63	7.87	17.72/27.17

Trigger pull	7 to 10 lbs
Muzzle velocity	853 fps with 230 grain M1911 ball/1,247 fps with 185 grain +P JHP
Sighting radius	12.80 inches
Rifling (.45)	6X polygonal, right hand twist, 1 turn in 16 inches
Rifling (.40)	6X polygonal, right hand twist, 1 turn in 15 inches (chamber is fluted as in MP5)

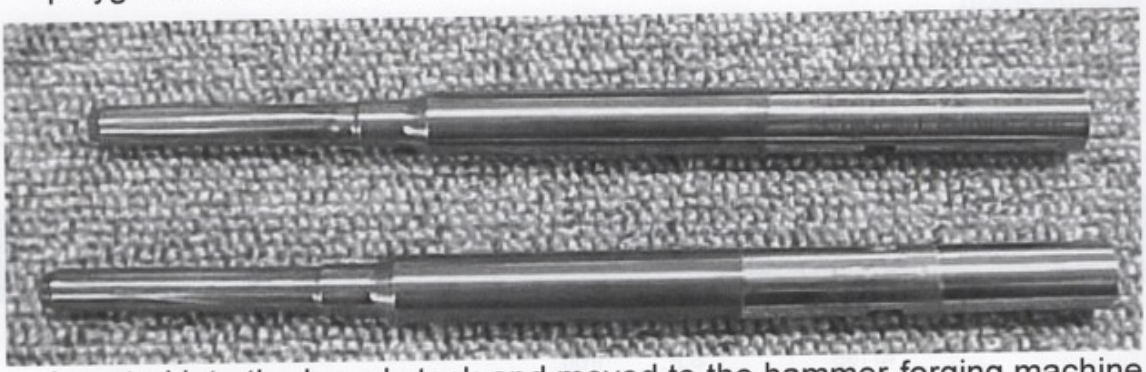
The Making of a HK Barrel

Heckler & Koch selects the finest French steel for its barrels. The steel is subjected to a multi-procedural process in order to provide the safest and most reliable barrels in the world. While over-pressure may fracture a barrel, H&K barrels do not fragment.

The Barrel process:



- Stock steel is mounted in a horizontal drill press and is deep drilled to chamber diameter with the barrel rotating in one direction and the drill bit rotating in the opposite direction.
- The drilled stock is then reamed
- The reamed barrel is then diamond honed to a mirror finish
- A "land and grooved" or a polygonal mandrill is then



inserted into the barrel stock and moved to the hammer-forging machine.

- The large diameter side of the mandrill is chamber size. The narrower side forms the cartridge shoulder configuration of the chamber and finally the lands and grooves. (1 turn in 16 inches)

The hammer is configured with four individual hammers in a circle. Each hammer will apply 140 tons per beat, beating at a rate of 1,000 beats per minute. The four hammers beat the steel stock simultaneously

- For example, the steel stock for a G36K is 26cm (10.24 inches) long at this point and will be hammered to a length of 40cm (15.75 inches). (154% of its original size
- As the hammering occurs, the steel is stretched over the mandrill forming the chamber and the land and groove configuration of the barrel. Total time – 4 minutes.
- This barrel is then heated to 600 degrees for hardening and straightened
- A laser process accomplishes straightening. A mandrill with a mirrored end is inserted into the barrel. This mandrill is moved along the length of the barrel as a laser beam is bounced off the mirror taking height measurements off the end of the mandrill.
- A computer provides a graph of the barrel's bore axis. If it is out of acceptable tolerance, the computer will lift "straightening bars" under the barrel at points, which will straighten the barrel. These "straightening bars" appear horizontally under the barrel like brass piano keys
- The straightened barrel is then send to the milling machines, which will drill the gas port, mill the over-pressure flutes and other outside barrel configurations
- The barrel is chrome plated to prevent rust and reduce chamber friction
- A final inspection is made visually by a machinist using a barrel scope

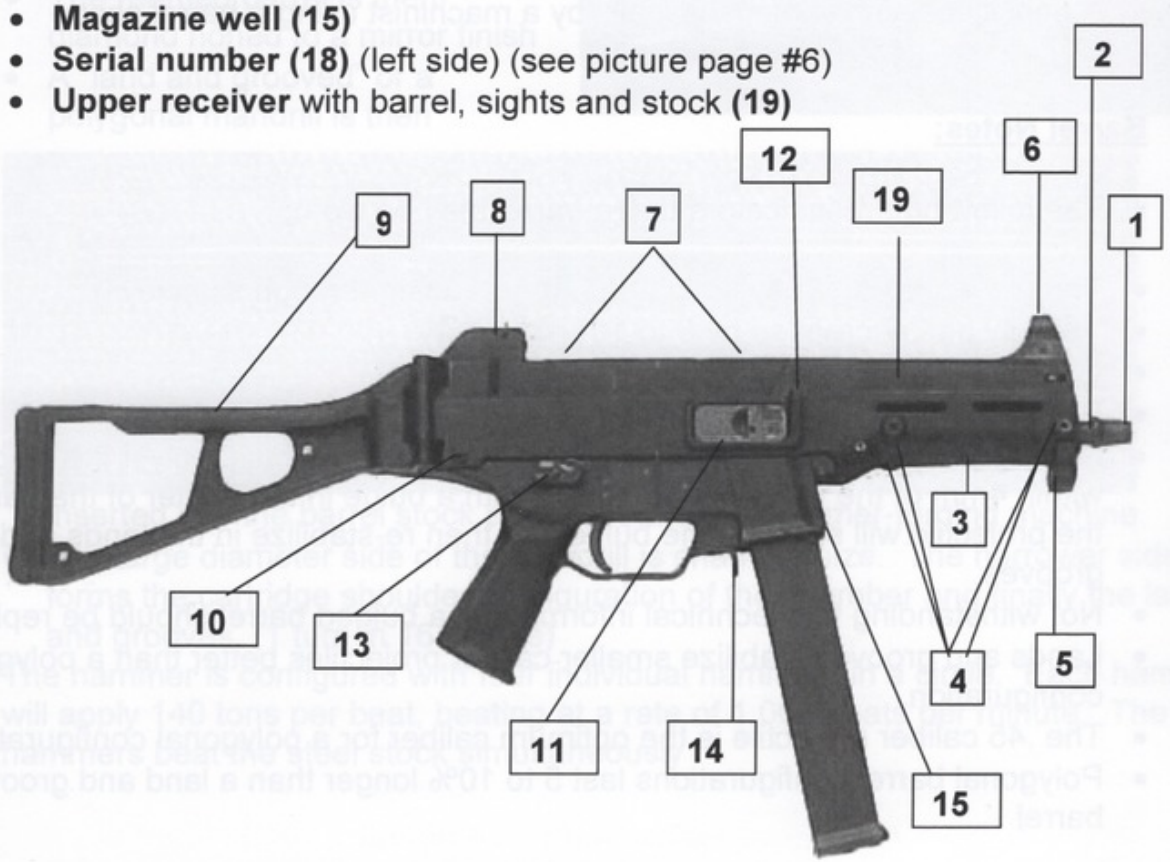
Barrel Notes:

- The following are indicators that a barrel may be worn:

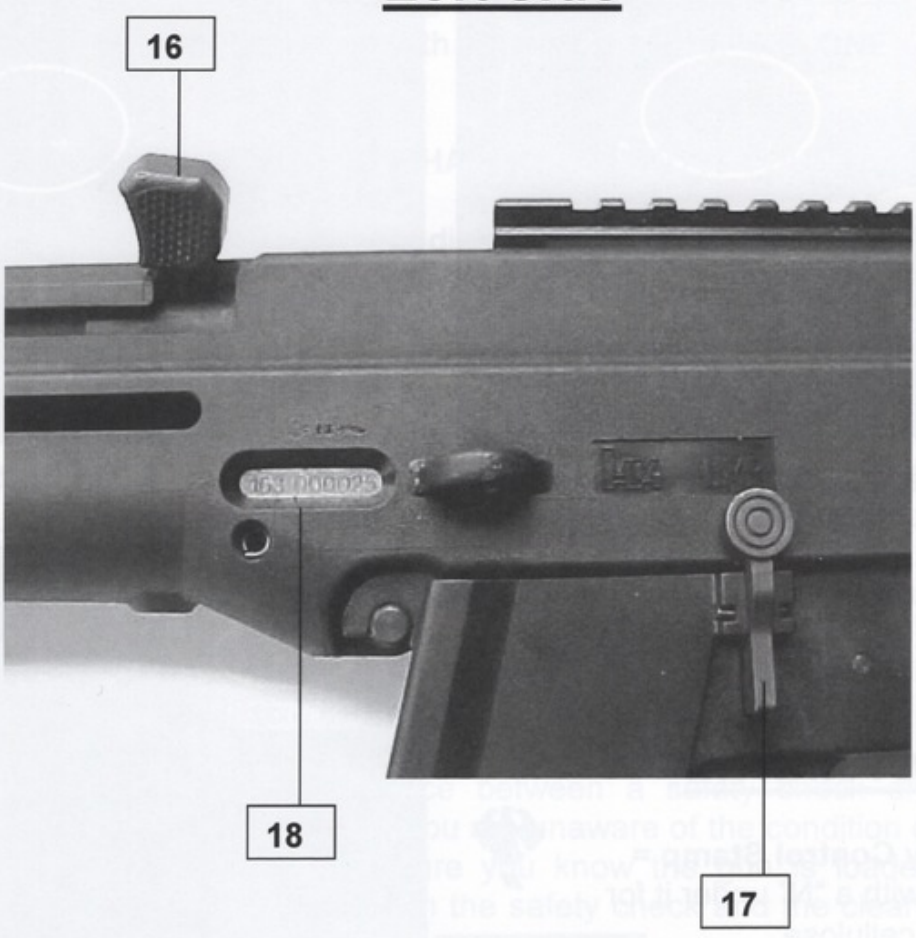
- The projectiles are "key holing" the target (going through sideways)
- Velocity has decreased by 5 to 10%
- Groups have opened by 5%
- Barrel is bulged
- Note: barrel bulges will affect the accuracy of the projectile only if the bulge is within 4mm of the muzzle. Generally, with a bulge in the center of the barrel, the projectile will slip past the bulge and then re-stabilize in the lands and grooves
- Not withstanding this technical information, a bulged barrel should be replaced
- Lands and grooves stabilize smaller caliber projectiles better than a polygonal configuration.
- The .45 caliber projectile is the optimum caliber for a polygonal configuration
- Polygonal barrel configurations last 5 to 10% longer than a land and grooved barrel

External Nomenclature

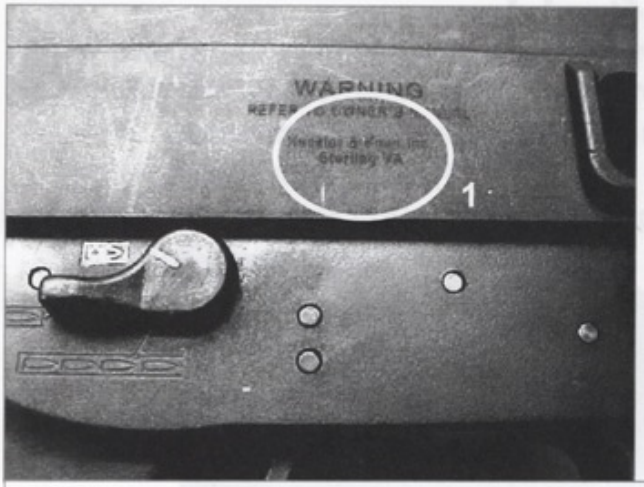
- **Barrel (1)** (Crown) and suppresser flange **(2)**
- **Forearm (3) w/accessory rail hard point (4)**
  - **Detachable handstop and Front sling mount (5)** (removable)
- **Hooded front sight (6)**
- **Cocking lever (16)** (left side)(see picture page #6)
- **Top rail hard points (7)**
- **Flip rear sight /notch & peep (8)(adjustable for elevation & windage)**
- **Folding stock and lock (9)**
  - **Rear take down pin (10)**
- **Ejection port (11)** (right side of receiver)
- **Folding stock engagement (12)** (engages stock when stock is folded) (in front of ejection port)
- **Lower receiver w/firing mode selector lever (13)**
- **Bolt catch (17)** (left side) (see picture page #6)
- **Magazine release (14)**
- **Magazine well (15)**
- **Serial number (18)** (left side) (see picture page #6)
- **Upper receiver** with barrel, sights and stock **(19)**

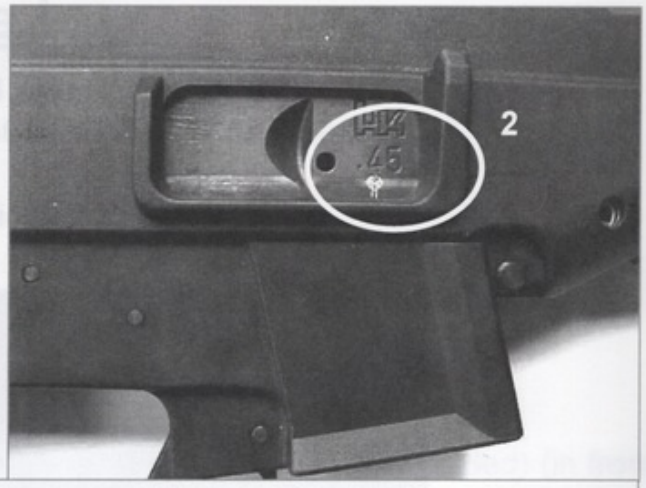


External Nomenclature (cont.)
Left side

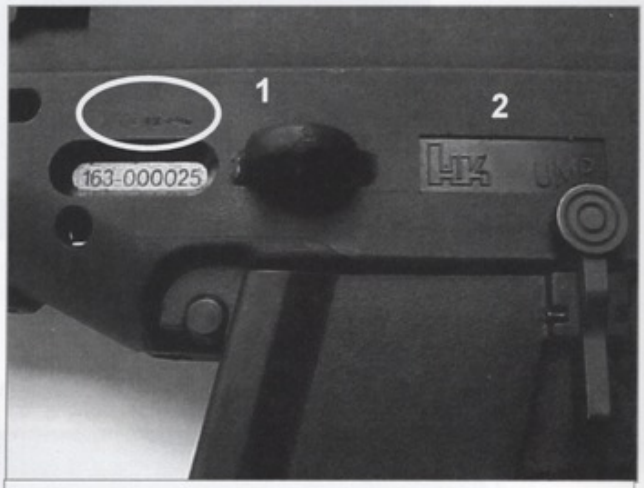


Markings





Right side of subgun = 1. Importer and place of import 2. On Bolt - Caliber



Left side marking = 1. Nitro-cellulose stamp, date code and the "ULM"
2. "HK" logo and model (UMP)

Proof *Marks*

Quality Control Stamp =
Eagle with a "N" under it for "Nitro" cellulose

Date code:

A = 0	**F = 5**
B = 1	**G = 6**
C = 2	**H = 7**
D = 3	**I = 8**
E = 4	**K = 9**

J is reserved for Proof house use and on HK parts not required to be proof tested such as magazine housing

Proof Mark = Six proof houses in Germany. <u>ULM is utilized by HK</u>

Safety Check

A safety check must be performed when the condition of the gun is unknown, when you first pick the gun up and before you do anything to the gun that will result in the trigger being pulled with the slide forward. NO **ONE** CAN DO THIS FOR YOU!!!

NO GUN IS SAFE UNTIL YOU HAVE CHECKED IT YOURSELF!!!!

P - **P**oint the UMP in a safe direction, with the trigger finger outside the trigger guard.

P - **P**ut the selector lever in the safe position

P - **P**ull the magazine from the UMP

P - **P**ull the cocking lever to the rear and lock it back

P - **P**hysically and visually inspect the chamber for live ammunition

CLEARING PROCEDURE

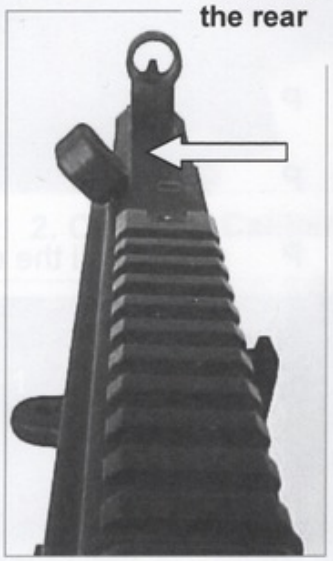
There is only one major difference between a safety check and a clearing procedure. During a safety check you are unaware of the condition of the firearm, whereas with the clearing procedure you know the gun is loaded. If you are following the proper procedure, both the safety check and the clearing check are performed in the same manner

One important factor to consider in the clearing procedure is the disposition of the round as it is ejected. It is not recommended to cover the ejection port as the round is being ejected as unintentional discharges can occur. By the same token, be careful as to where the ejected round falls, since the primer doesn't know if it is being hit by a firing pin, a rock or a projection of metal on the gun.

Loading & *Firing*

1. Point the UMP in a safe direction
2. Perform a safety check
3. Ensure the selector lever is on "safe"
4. If the bolt is forward, lock the cocking handle to the rear
5. Insert a loaded magazine into the magazine well and then give the magazine a tug down
6. With the support hand, slap the cocking lever out of its locking groove with a right to left sweeping movement. The bolt will go forward and chamber the first cartridge. (an alternative method is to cant the weapon to the left and strike the cocking lever straight down) With either method do not ride the cocking lever forward or impede its forward movement in any way. This will induce a malfunction.
7. Put the selector lever on the desired mode of fire
8. Shoulder the UMP; pull the trigger to fire the weapon
9. After firing perform a clearing check
10. Once the clearing procedure is complete, the UMP is ready for cleaning.
11. Field strip the UMP, then clean

Cocking lever/bolt locked to the rear

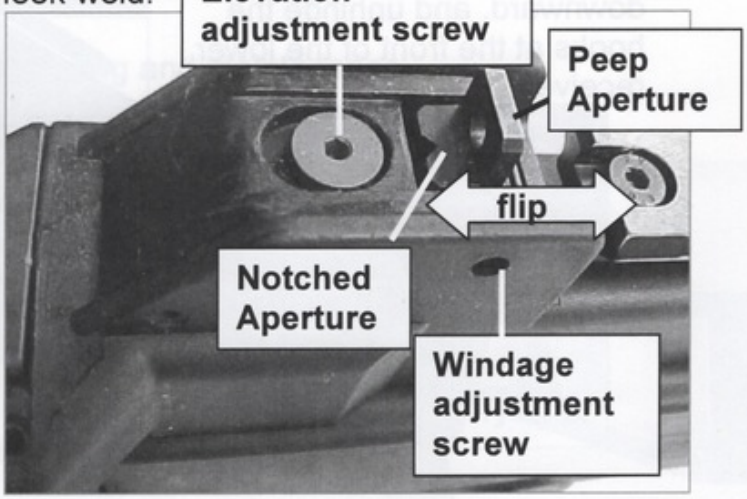


Cant the weapon to the left; strike cocking lever down

Sights

Sighting

- The front sight of the UMP is similar to the front sight of the MP5. With the notched rear sight line up the sights as you would with any "partridge" sighting system. Front sight sharp in focus, centered on the notch, equal amount of light on each side of the front sight blade, tops of the rear and front sights even across.
- With the peep sight as with the MP5 a halo of light should be even around the front sight hood. The halo may be narrow or wide depending on where the shooter falls with the cheek weld.



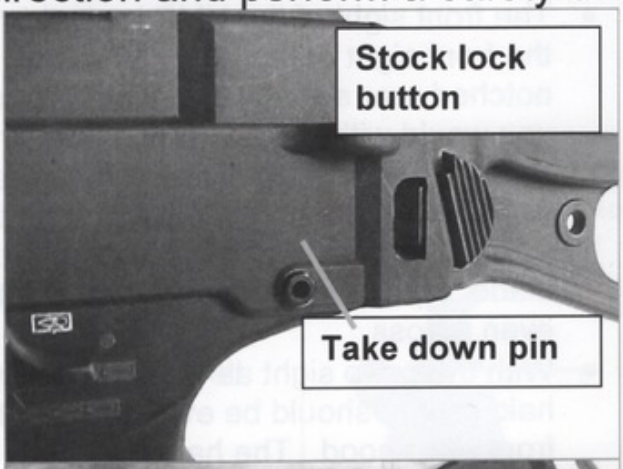
- The front and rear sights can be removed and exchanged with an optional tritium sights
- The rear sights can be adjusted for elevation and windage with a 2mm hex wrench. Dia. of rear peep sight is 6mm. (same as large diopter on MP5)
- **LR=C** – **L**ower or **R**ight turn the adjustment screws clockwise
- A 360-degree turn will move the impact 2 inches at 25 yards for either windage or elevation.

Field Stripping

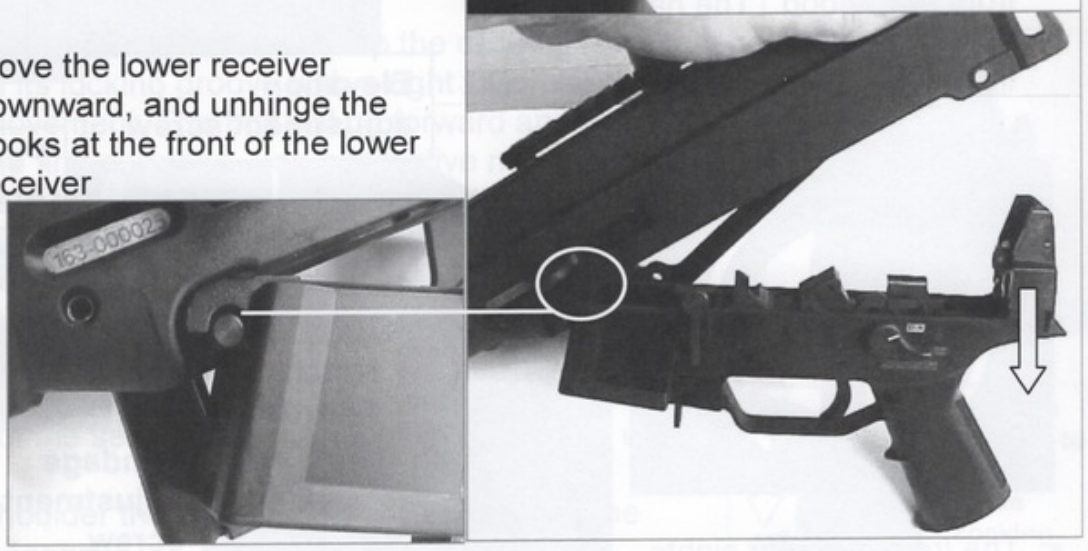
- Point the UMP in a safe direction and perform a safety check

Disassembly

- Slap the cocking handle and allow the bolt to move forward into battery
- Push the lock button on the stock and fold the stock into the right of the receiver
- Remove the take down pin

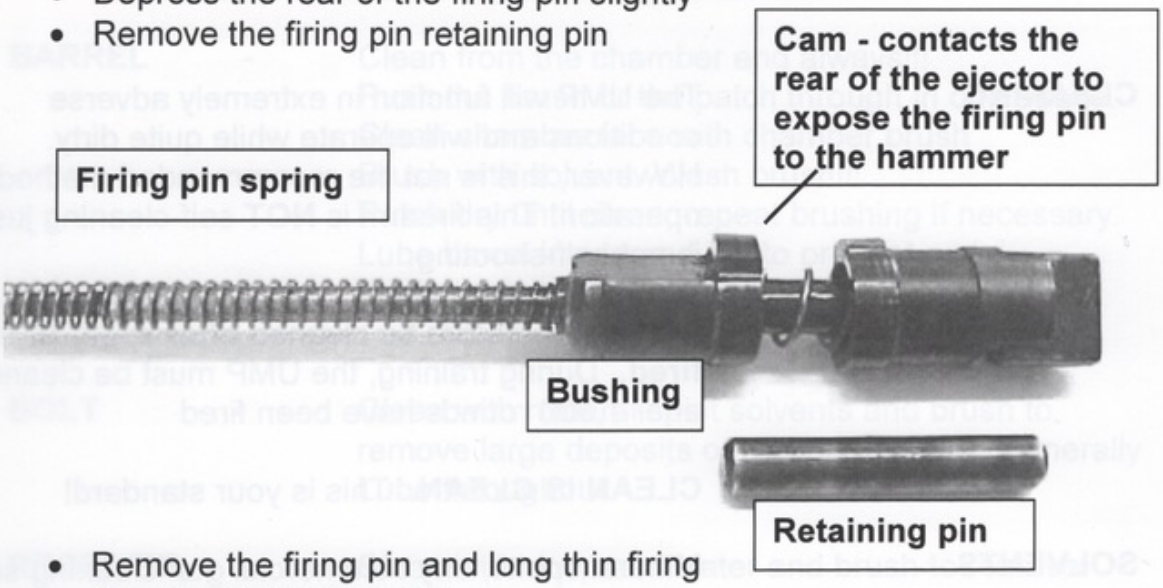


- Move the lower receiver downward, and unhinge the hooks at the front of the lower receiver



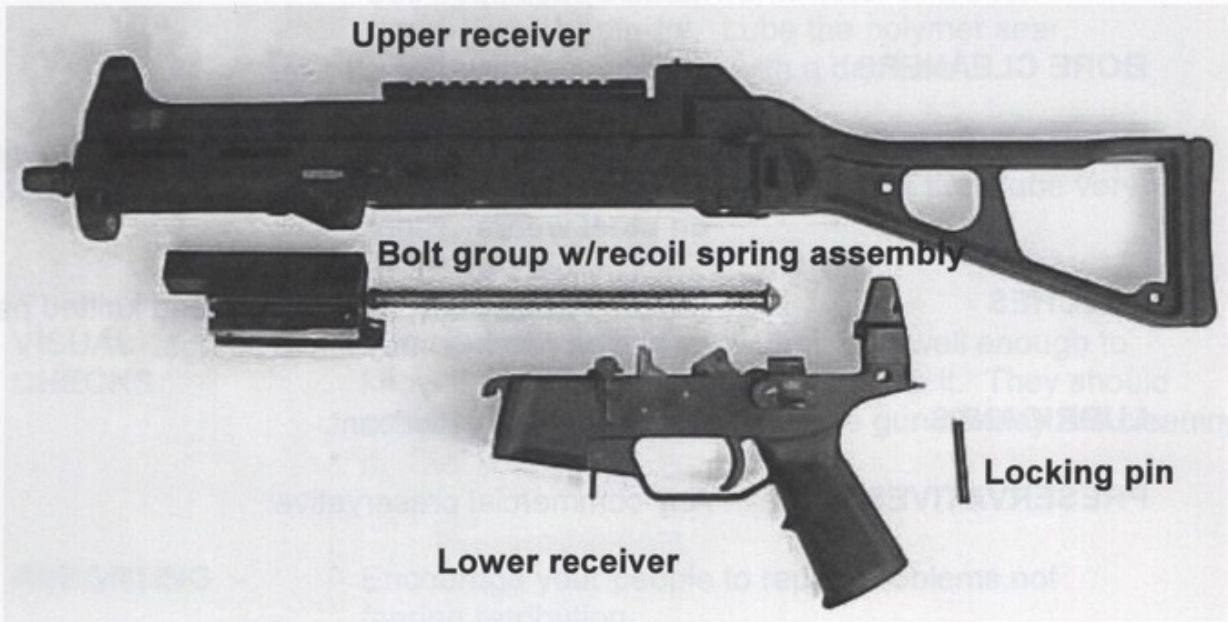
- Remove the recoil spring assembly from the rear of the upper receiver
- Tilt the rear of the upper receiver downward and allow the bolt to slide out into your hand

- **Firing pin**
  - Depress the rear of the firing pin slightly
  - Remove the firing pin retaining pin



  - Remove the firing pin and long thin firing pin spring from the rear

- The UMP is now ready for cleaning and maintenance



OPERATOR MAINTENANCE

CLEANING

The UMP will function in extremely adverse conditions and will operate while quite dirty. However, this is not the recommended method of operation. This firearm is **NOT** self-cleaning just as it is not self-shooting.

It should therefore be cleaned **after every time it is fired.** During training, the UMP must be cleaned after 1,000 rounds have been fired

CLEAN IS CLEAN. This is your standard!

SOLVENTS

Mineral spirits, any commercial gun cleaning solvent. **NEVER GASOLINE!** These are for general cleaning throughout the gun. Some Biodegradable solvents can leave a gummy residue.
Keep solvents away from painted surfaces (firing mode symbols)

BORE CLEANERS

Any commercial bore cleaner.

BORE BRUSHES

Bronze bristle, copper, and brass is recommended. Nylon is OK. **Never ever use stainless steel. Steel on steel wears**

PATCHES

Soft and absorbent. We recommend knitted patches as woven patches may leave strings.

LUBRICANTS

Any commercial lubricant.

PRESERVATIVES

Any commercial preservative.

CARE AND CLEANING

BARREL - Clean from the chamber end always!!!
Push the brush or the patch through in one stroke.
Clean chamber face with chamber brush
Brush with solvent. Wash brush!!!
Patch dry until clean, repeat brushing if necessary.
Lube barrel inside and out to prevent rust.
Fouling shots <u>are</u> fouling!

BOLT - Clean with mineral spirit solvents and brush to remove large deposits of carbon and dirt. Generally Lube throughout.

RECEIVER, & BUTTSTOCK - Clean with soap and water and brush to remove large deposits of carbon and dirt.

TRIGGER MECHANISM -
Use pouring solvent or warm water and bush clean. Blow or air-dry. Lube the polymer sear, catch and hammer area with a dry-lube.

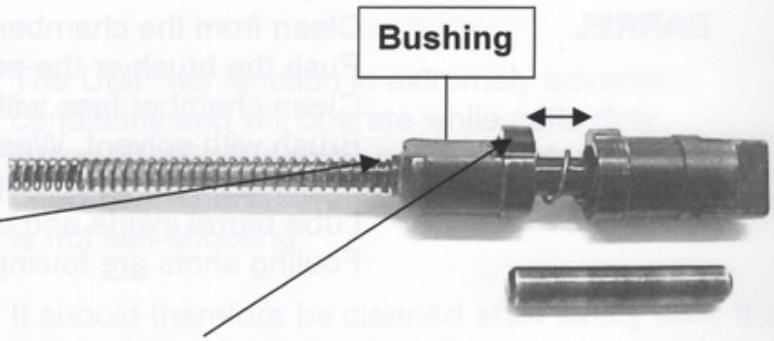
MAGAZINE - Wipe off the outside and the follower then lube very lightly.

VISUAL CHECKS - The operator should know their gun well enough to know if there is something wrong with it. They should perform a visual inspection of the gun as they are cleaning it.

REPORTING - Encourage your people to report problems not fearing retribution.

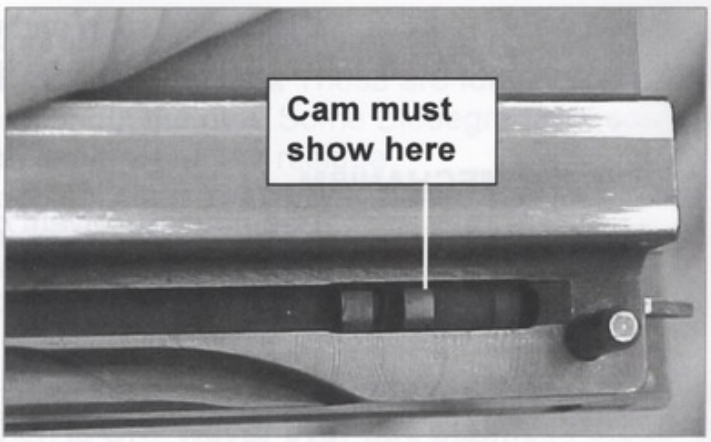
Assembly of the UMP

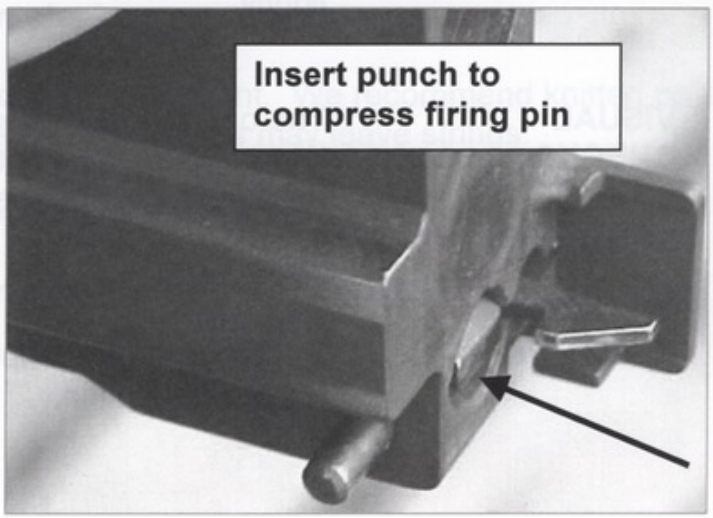
NOTE: If the bushing of the firing pin slipped off the firing pin, thread it back on, ensuring the front of the bushing has passed over the wings on the firing pin. Rotate the bushing, while compressing the bushing spring, so the cam on the bushing is on the left side of the firing pin and aligned with the rear cam.



Assembly of Bolt

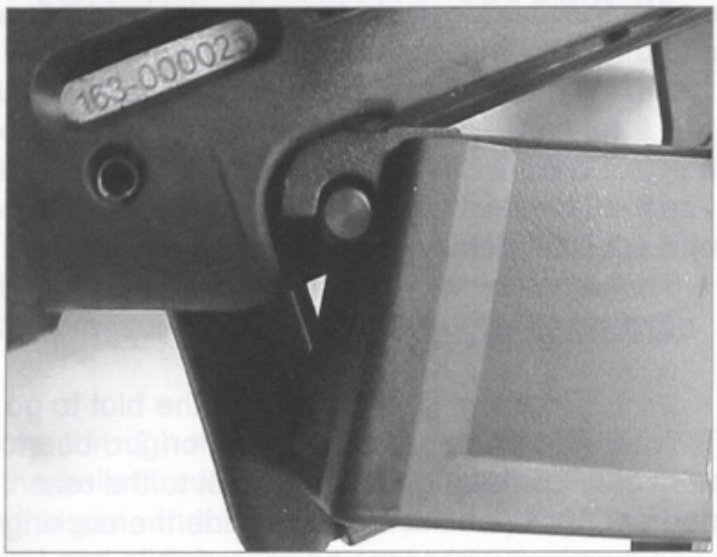
- Thread firing pin spring onto the firing pin
- Insert firing pin and spring into the bolt
- Ensure that the cam of the bushing is showing through the left side of the bolt
- Using a thin punch, compress the firing pin and insert the retaining pin





- Insert the bolt from the rear of the receiver
- Tilt the receiver towards the muzzle and allow the bolt to slide forward into battery
- Insert the recoil spring guide into the rear of the bolt
- Make sure that the hammer is cocked

- Place the hinge of the trigger mechanism on the lugs of the receiver and swing the back of the trigger mechanism up to meet the receiver
- Insert the take down pin
- Bring the stock into the shoulder shooting position
- Perform a function check



Function Check

1. After assembling the UMP, point it in a safe direction and place the *selector switch* on "safe"
2. Pull back the *cocking lever* several times to assure the bolt is free
3. Allow the bolt to go forward under the tension of the recoil spring
4. Pull the *trigger,* the *hammer* should not fall
5. Place the *selector switch* on "semi-auto" and pull the *trigger.* The *hammer* should fall. Release the *trigger.*
6. Pull the *cocking lever* to the rear and allow it to snap forward into battery
7. Pull the *trigger* to the rear and hold it there. The *hammer* should fall
8. With the *trigger* to the rear, re-cock the UMP
9. Release the *trigger* and listen for a "click". This is the resetting of the *sear.*
10. Place the *selector switch* on "full auto"
11. Re-cock the UMP
12. Pull the *trigger* to the rear and hold it there
13. The *hammer* should fall
14. With the *trigger* to the rear, re-cock the UMP and ride the *cocking lever* forward. As the bolt goes into battery, you should hear the *hammer* fall
15. Continue the "auto" cycle several times, then release the *trigger*
16. Place the *selector switch* on "safe"
17. Lock back the cocking lever

2rd burst group

1. Cock the UMP and allow the blot to go forward into battery
2. Place the *selector switch* on 2rd burst
3. Pull the trigger and hold it to the rear
4. Re-cock the UMP and ride the cocking handle forward into battery, you should hear the hammer fall
5. Re-cock the UMP and ride the cocking handle forward, the hammer should not fall
6. Release the trigger
7. Place the *selector switch* on "safe"
8. Lock back the cocking lever

OPERATING PRINCIPLE

There are three commonly accepted operating principles used to operate an auto-loading firearm. They all utilize the kinetic energy released as the round is fired. The powder in a modern cartridge is converted in a half dozen milliseconds from a dry powder to expanding gases 900 to 1000 times the volume of the powder. Additionally the pressure of this expanding gas can average 38,000-psi with a peak of over 43,000-psi in a 9mm x 19 cartridge.

This firing causes many things to happen. First, as the gases expand the bullet moves from the case into the barrel and the force required to move the bullet causes an exact force to be exerted in the opposite direction. This will become recoil energy and is the power behind two of the operating principles. Secondly, as the gases continue to expand, they push the bullet down the bore where the lands and grooves/polygonal configuration imparts spin to the bullet. These grooves/surfaces are in the shape of a spiral, which makes the bullet turn as it travels down the barrel. It can achieve a rate of spin of almost 80,000 rpm in a 9mm. The expanding gases if vented and applied to pistons or rods can be made to power the mechanism of the auto loader.

The M1 M-14, M-16, Remington 1100, M-60 machine gun, and Desert Eagle are just a few of the gas-operated weapons used. One of the features of the gas-operated gun is that the barrel is stationary and the gas is vented from the barrel forward of the mid-point of the barrel. This creates a delay, which enables the bullet to leave the muzzle and the pressure to drop to a safe level prior to the action opening.

A recoil operated firearm functions through the transmission of recoil energy. The equal and opposite reaction to the bullet traveling down the bore provides more than enough energy to function the gun. In the recoil operated system the barrel and breech, barrel and bolt, barrel and slide remain locked while the mechanism is in recoil until the bullet leaves the bore and the pressure drops to a safe level. This is done through timing, but the barrel in a recoil system moves. Examples are numerous, as all Browning design pistols are recoil operated. The Browning HiPower, MI911 A1, Beretta, Smith autos, Glock, Sig and many more including our own USP.

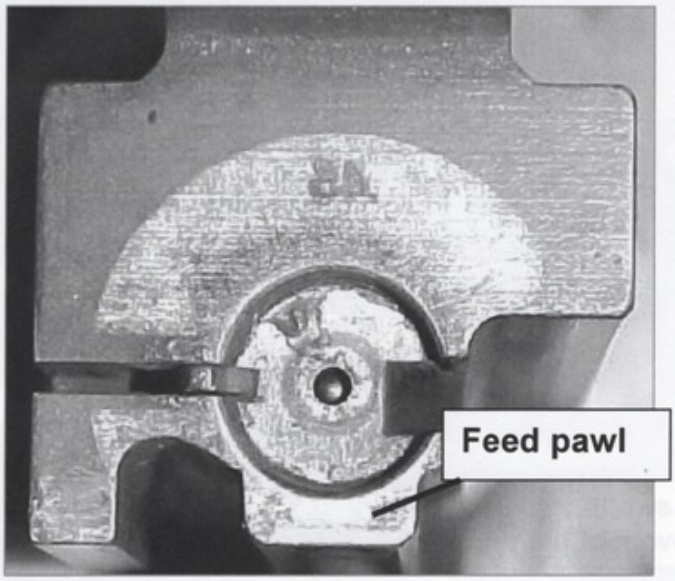
Another method of utilizing the recoil energy is called **Blowback** and broken into two types, simple and delayed. Delayed blowback, however, instead of using the mass of the bolt incorporates a mechanical disadvantage, which must be overcome to unlock the bolt and open the action. This style of bolt system

enables the bolt to be light. If the G3 used the simple blowback, the bolt would weight 36 lbs.

The simple blowback system uses the mass of the bolt to cause the delay necessary for the bullet to leave the muzzle. Uzi, Sterling, Sten, M3 Grease gun, Mac 10, and most small .22 semi pistols are simple blowback. The UMP is a simple blowback operated weapon.

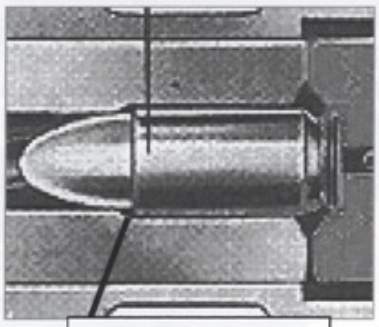
Cycle of Functioning

1. **Feeding** The stripping of a cartridge from the magazine



- The top cartridge in the magazine is sitting directly behind the chamber, so feeding is in a direct horizontal line
- As the bolt moves forward under the expanding recoil spring, the bottom lug of the bolt head acts as a feed pawl and strips the top cartridge from the magazine.

2. **Chambering** The seating of the cartridge into the chamber

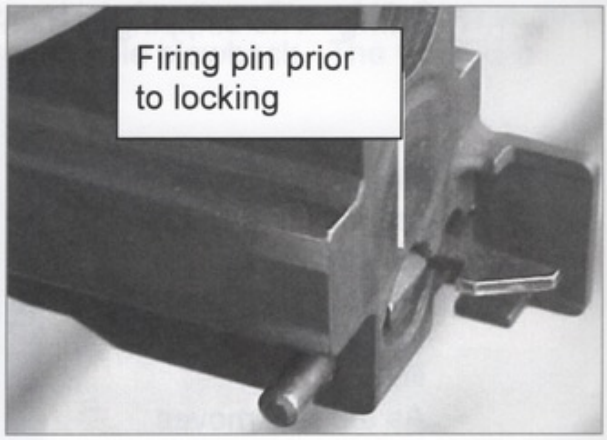


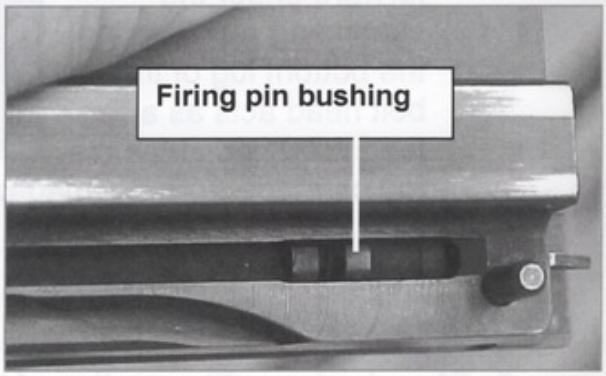
- As the recoil spring continues to expand pushing the bolt forward, the cartridge is forced directly into the chamber
- The cartridge stops when the front edge of the cartridge meets the front ridge of the chamber. This is called case mount.

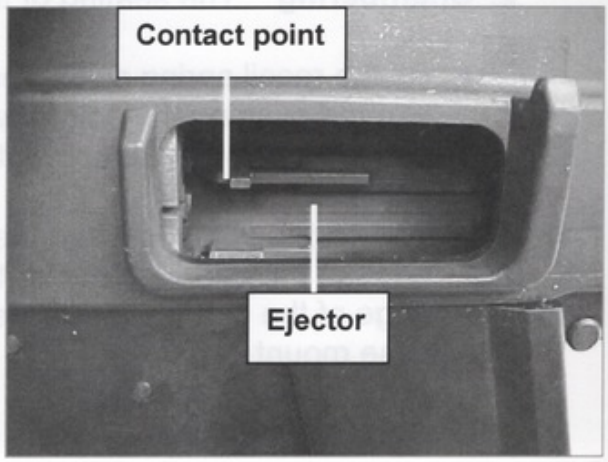
- Case mount uniformly seats each cartridge

3. **Locking** The closing of the breech mechanism, which will provide the gas seal prior to firing

- In a simple blowback system there is no mechanical locking mechanism. The bolt's weight under tension of the recoil spring provides the gas seal.
- As the bolt head moves forward chambering the cartridge, the bolt head will stop when it meets the chamber face at the rear of the barrel extension.
- Tungsten granules in the bolt prevents rebounding of the bolt
- As the bolt moves into battery the firing pin bushing is contacted by the rear of the fixed ejector. This forces the bushing to the rear, which in turn causes the rear of the firing pin to be exposed for a hammer strike.
- With the force of the bolt carrier continuing to move forward, the extractor cams out over the back of the cartridge rim and then snaps back over the rim. The shape of the ejector provides the necessary tension.
  - *Note: The spring between the firing pin bushing and the rear of the firing pin prevents slam fires during the cycle of functioning and inertia detonation should the UMP be dropped*

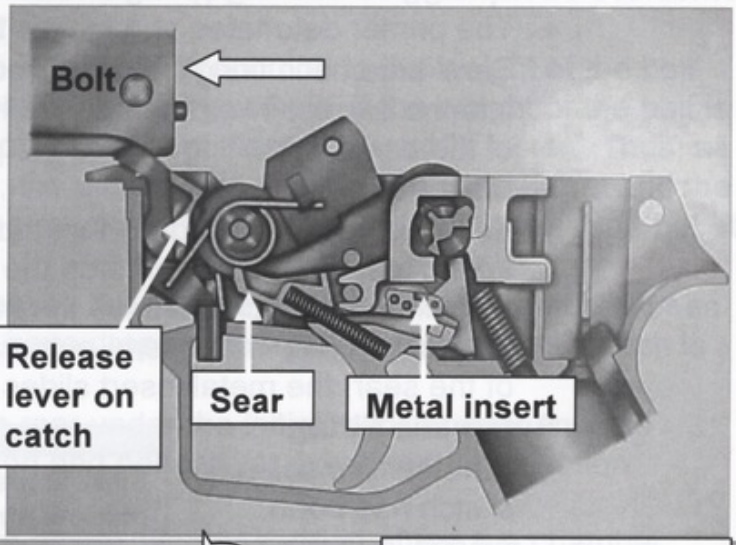






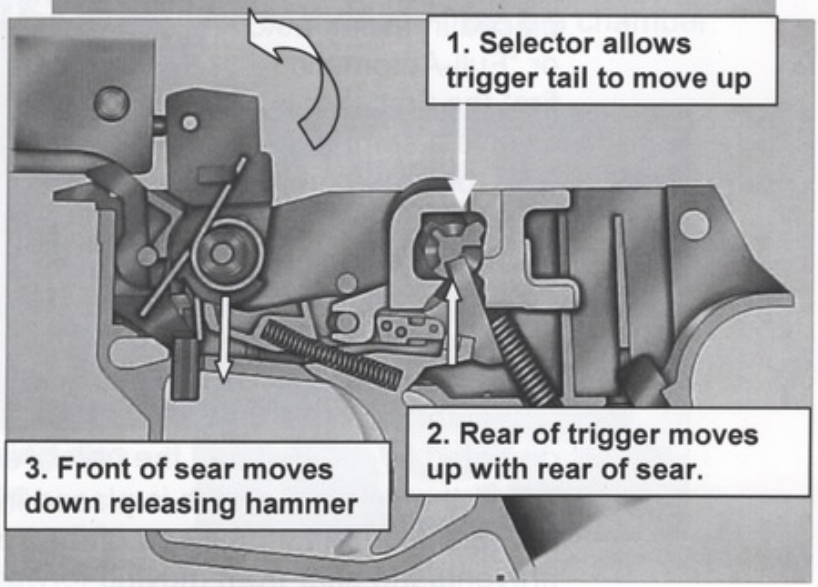
- (NOTE: The following series of pictures are from a G 36, however, the function of the UMP & G36 are the same)

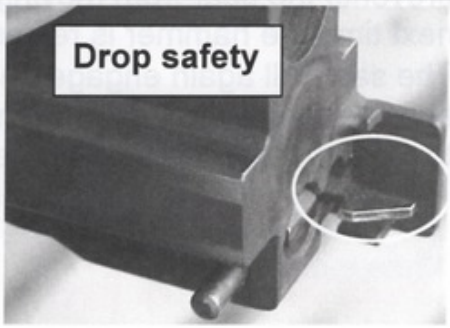
- As the bolt carrier moves forward the bottom of the carrier contacts the release lever of the catch. The catch releases the hammer and the hammer begins to fall forward. The hammer is stopped as the bottom of the hammer engages the upper front nose of the sear. With the rearward pressure of the hammer, the metal insert in the rear of the sear slides over the rear of the trigger.
  - The UMP is now ready to fire



4. **Firing** The igniting of the propellant powder

- With the bolt in battery the firing pin is protruding out of the rear of the bolt
- **Semi-automatic firing**
- With the selector in semi-auto, the trigger tail will be allowed to move up. As the trigger is pulled, the rear of the trigger is moved up. As the rear of the trigger moves up, it is in contact with the metal insert of the sear, which also moves up. As the rear moves up, the nose of the sear moves down.
  - Eventually the nose of the sear will release the hammer. Under the tension of the hammer

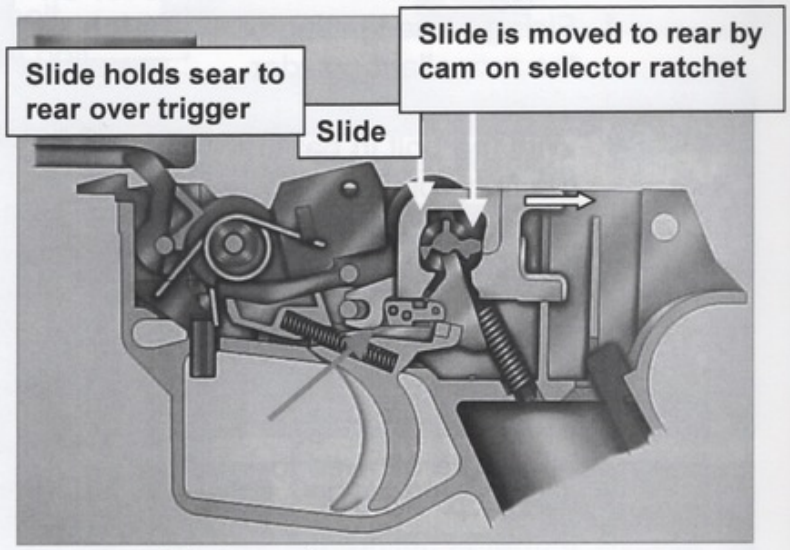




springs, the hammer will fall forward sweeping aside the drop safety and striking the firing pin

- The firing pin is driven forward overcoming the tension of the firing pin spring and bushing spring and strikes the primer
- The primer detonates and ignites the propellant powder
- Semi-automatic firing has occurred moving the projectile from the casing into the barrel. The projectile will inscribe itself on polygonal configuration of the barrel imparting spin to the projectile for stabilization after it leaves the muzzle.
- The sear will move slightly forward and up under the tension of the sear spring to be in position to stop the hammer from hitting the firing pin the next time the catch releases the hammer. This sear movement prevents automatic firing in the semi-automatic mode. With the forward movement of the sear, the metal insert slides off the rear trigger ledge.

- **Automatic Firing**
  - Whether the selector switch has been placed in "Semi-auto" or "Full-Automatic fire" the first shot is always a semi-auto shot, because the sear is manipulated by the shooter
  - Once the first shot has been fired, with the selector switch in "full-auto" the UMP is operated by the *bolt* and the *catch/release lever*



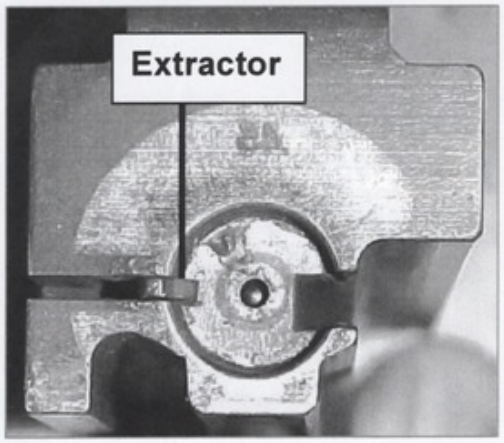
  - When the selector switch is placed in "full-auto" the *slide* is moved to the rear placing the metal insert of the sear over the top of the trigger. This prevents the sear from moving forward and engaging the hammer the next time the hammer is released from the catch.
  - The sear will again engage and stop the falling hammer only when the shooter allows the trigger to move forward, allowing the front of the sear to move up into the path of the falling hammer.

5. **Unlocking** The removal of the locking mechanism from the breech

- The mass of the bolt provides the lock-up, so this weight must be overcome before unlocking can occur
- The weight of the projectile is in direct proportion to the weight of the bolt under the expanding gas pressure. For example, if the weight of the bolt is 10x the weight of the projectile the projectile will move 10x faster. Thus, as the gases begin to expand, the projectile is moving down the barrel and the bolt, under the energy of the recoil impulse is also moving to the rear, but at a much lower rate.
- By the time the projectile leaves the muzzle, the mass of the bolt has been overcome. Gas pressures have dropped to a safe level and the breech is open.
- The bolt will continue to the rear under the initial recoil energy impulse compressing the recoil spring and performing extraction and ejection

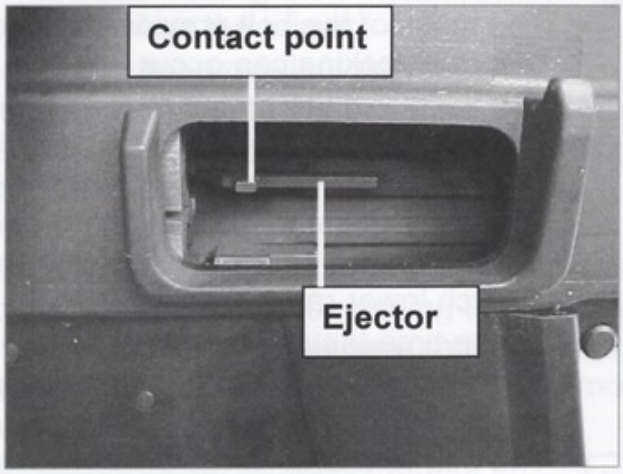
6. **Extraction** Removal of the empty case or cartridge from the chamber

- During "chambering" the extractor, located on the right side of the bolt head, snapped over the case rim. As the bolt moves to the rear the casing or cartridge will be guided out of the chamber by the extractor.
- The chrome lining of the barrel and chamber reduces friction on the chamber walls. The gas pressures inside the barrel and casing also push the casing out of the chamber.



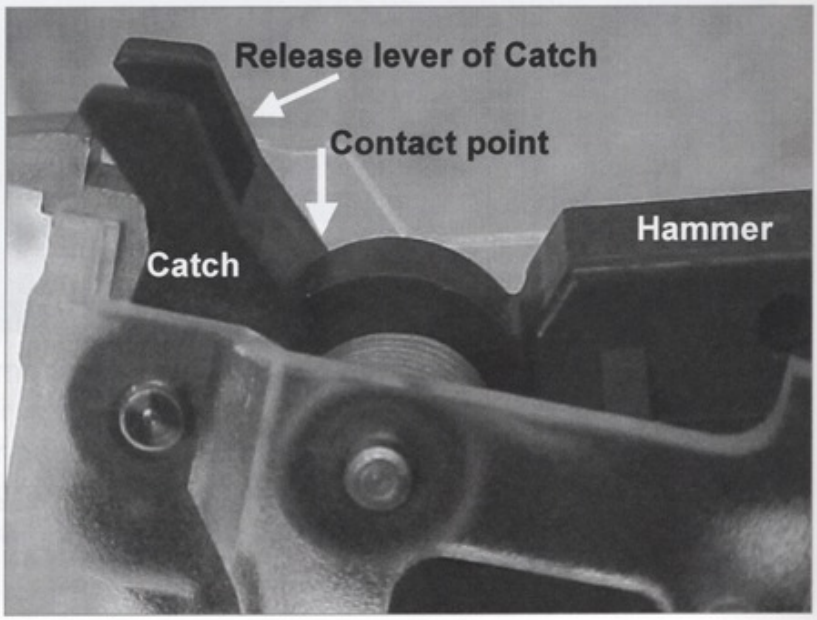
7. **Ejecting** The expelling of the empty case or cartridge from the rifle

- The casing is held to the bolt head face by the extractor.
- As the bolt moves to the rear, the left back of the casing (9 o'clock) will contact the ejector, stopping the rearward movement of the casing as the bolt continues to the rear
- The extractor provides a pivot point so the casing is forced to the right and expelled from the subgun through the now open ejection port



8. **Cocking** The resetting of the trigger mechanism for subsequent shots

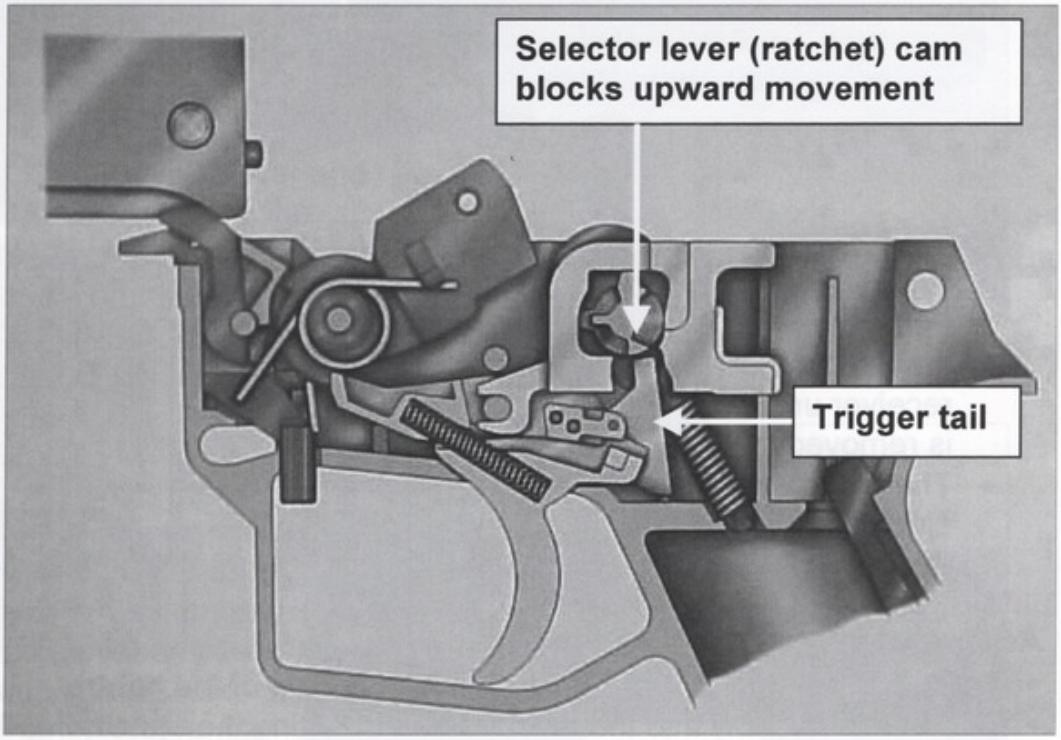
- As the bolt is moving to the rear, it will run over the hammer forcing it to the rear and compressing the hammer springs.
- As the bolt begins to move forward through "feeding" the hammer is allowed to move forward under its spring tension, but stops on the catch.
- This is necessary for full-auto firing. If the hammer is allowed to follow the bolt forward at the same speed, there would not be enough inertia from the hammer to cause the firing pin to detonate the primer.



- The catch stops the hammer long enough for the bolt to chamber, lock and then be released from the catch with enough inertia to strike the firing pin and detonate the primer.
- When the shooter releases the trigger, the metal insert at the rear of the sear is reset on top of the trigger ledge.
- During the function check when releasing the trigger on a cocked subgun, a "click" is heard. This is the resetting of the sear onto the trigger.

Selector switch on "safe"

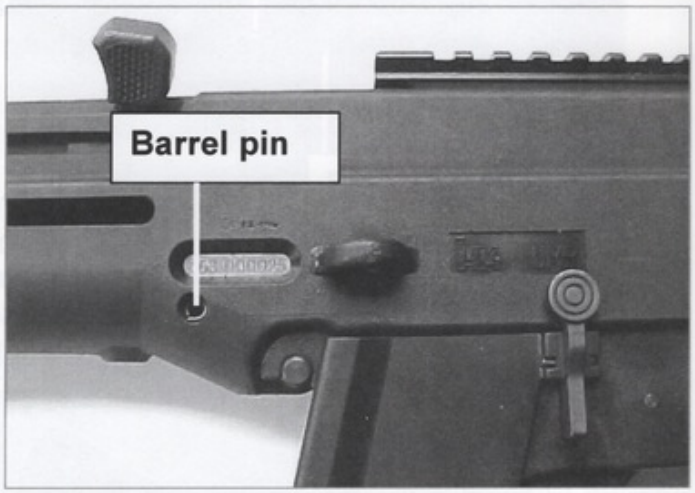
- The selector switch when on "safe" restricts the rearward movement of the trigger by blocking the upper movement of the trigger tail



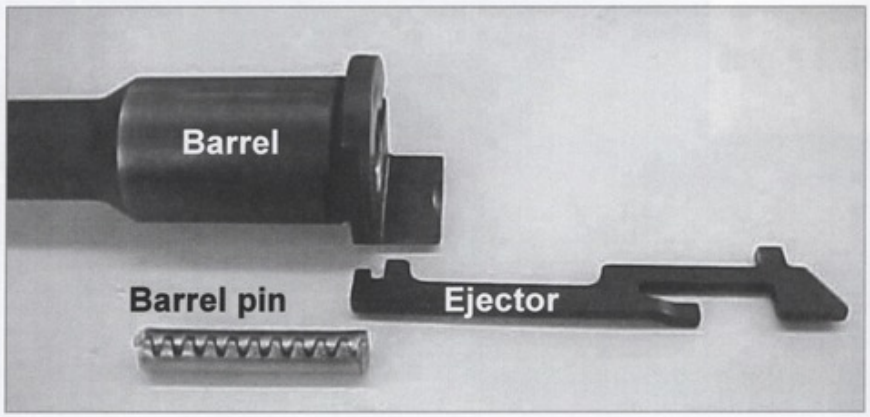
Armorer's Disassembly/Assembly

- Field strip the UMP and separate into the subassemblies:
  - Upper Receiver/Barrel
  - Bolt assembly (bolt and recoil spring & guide)
  - Lower Receiver
  - Magazine

1. Upper Receiver and Barrel
   - The barrel and the ejector are removed together
   - If either one of these parts needs to be repaired punch out the barrel pin from either direction



Barrel & Ejector
- Push the barrel towards the rear of the receiver until it is removed
- The barrel and ejector will come out

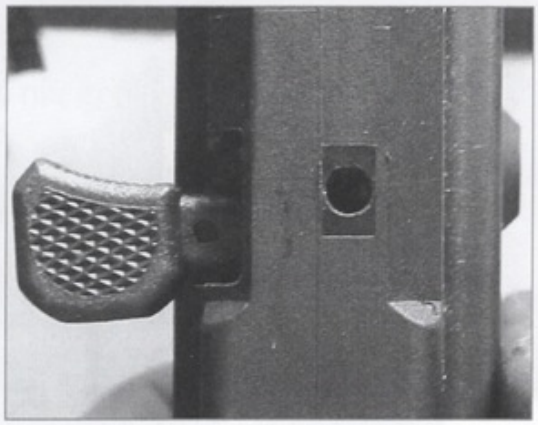


Assembly
- Place the front groove of the ejector on to the lip of the barrel
- Slide the assembly into the receiver and inserting the ejector into its slot on the left side of the receiver
- Check to make sure the ejector is still in contact with the barrel
- Continue forward until barrel is seated
- Drive in barrel pin

Note: Headspace is automatically set with proper installation of the barrel

Cocking lever

- Align the cocking lever roll pin with the access hole on the top of the receiver
- Drift out roll pin and remove cocking lever and spring to the left side
- Tilt the receiver muzzle up and allow the cocking lever support to slide out to the rear.

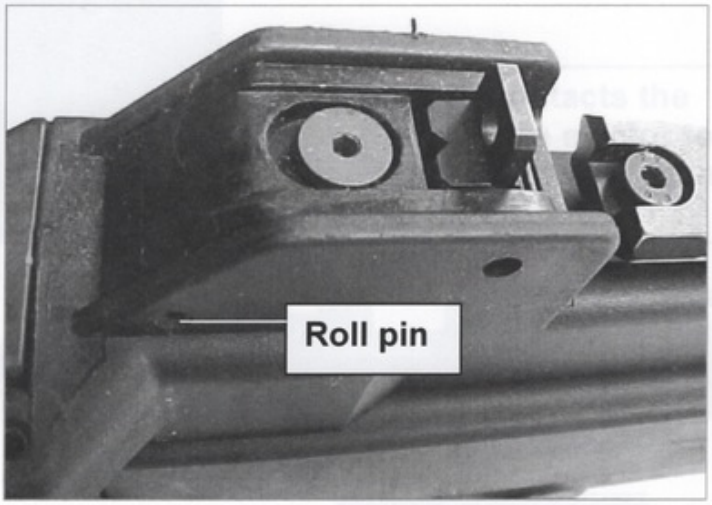


Assembly

- Insert the support from the rear of the receiver
- Align the cocking lever relief slot with the cocking handle
- Insert the cocking lever and spring, compressing the spring slightly
- Align roll pin hole in support and receiver
- Drift in roll pin

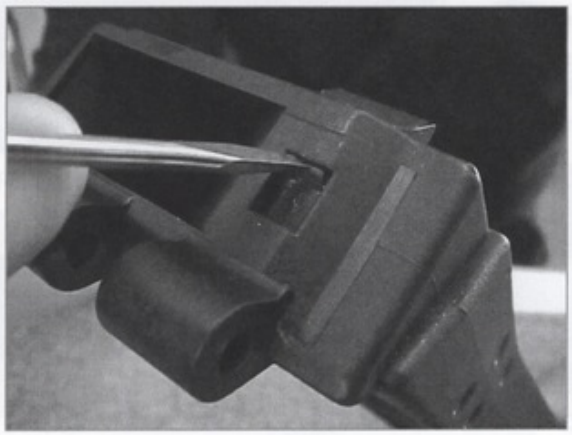
Rear sight

- Check the "battle zero" elevation adjustment and record it by turning the elevation screw with a 2mm hex wrench all the way down (clockwise), making note of the number of revolutions
- Drift out the roll pin at the rear of the sight and unloosen the elevation screw (caution, there is a spring under the assembly)

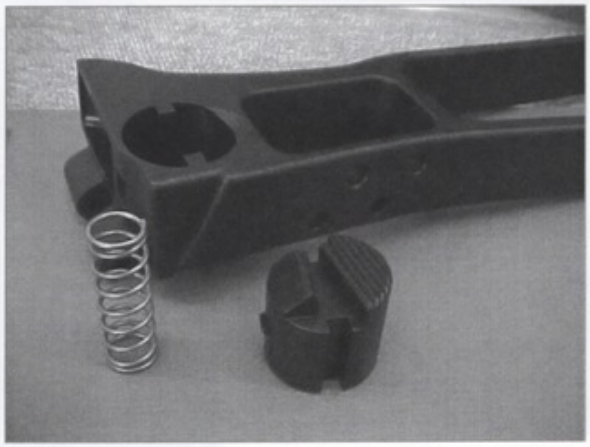


Folding stock

- Drift out the stock hinge pin in either direction
- To remove lock button press down on the tab and allow the button to move out



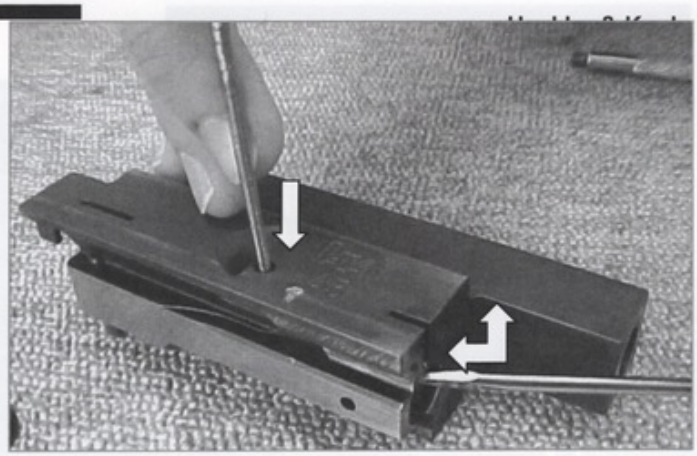
- Remove button & spring

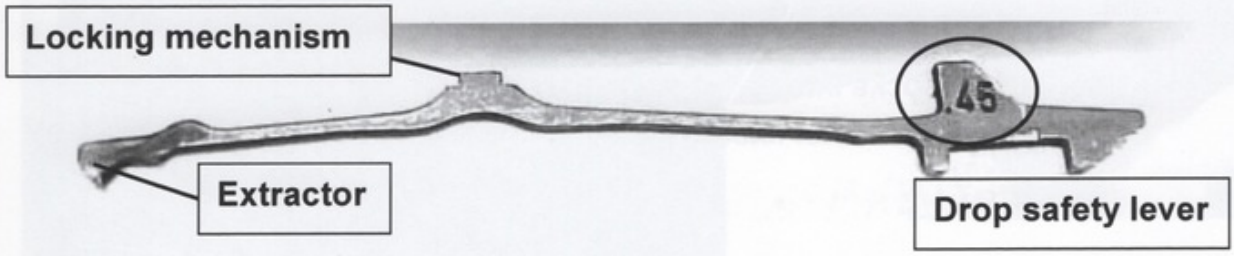


Assemble stock

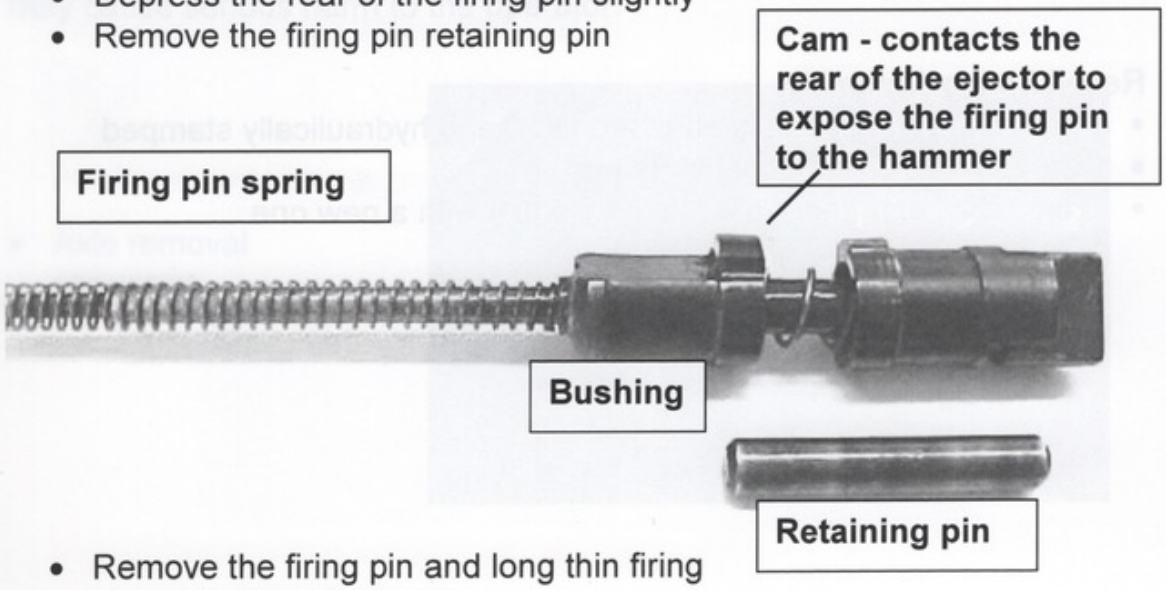
- Place spring inside button
- Insert assembly into button hole in stock, spring down
- Press down until tab locks into place

2. Bolt assembly
- Extractor/drop safety
  - Insert a punch into the hole in the center of the right side of the bolt
  - Place another punch or screwdriver on the face of the extractor
  - Push down on the punch in the center of the bolt while pushing back and up on the front of the extractor. The locking mechanism will disengage from the center hole.
  - Pull the extractor out from the rear of the bolt with pliers





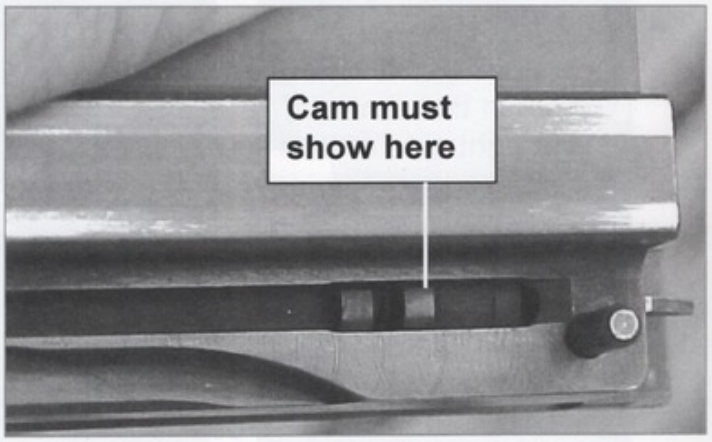
  - Notice the caliber marking on the extractor; it must match the caliber of the bolt
- Firing pin
  - Depress the rear of the firing pin slightly
  - Remove the firing pin retaining pin

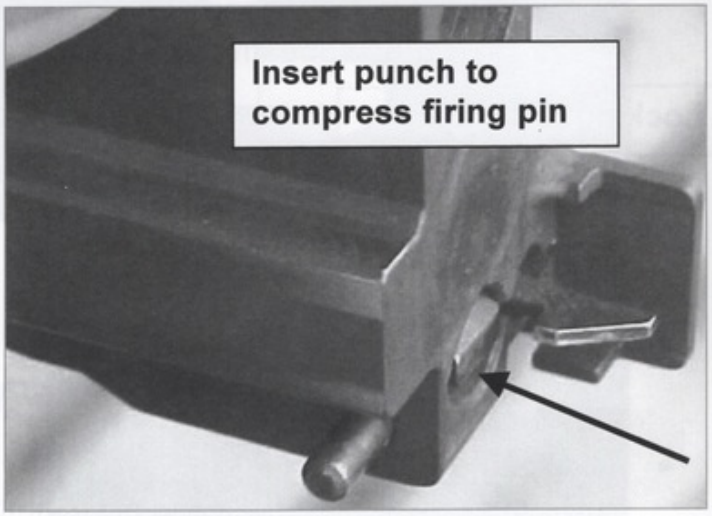


  - Remove the firing pin and long thin firing pin spring from the rear

Assembly of Bolt

- Thread firing pin spring onto the firing pin
- Insert firing pin and spring into the bolt
- Ensure that the cam of the bushing is showing through the left side of the bolt
- Using a thin punch, compress the firing pin and insert the retaining pin
- Insert the extractor from the rear of the bolt on the right side and push forward until it locks into place

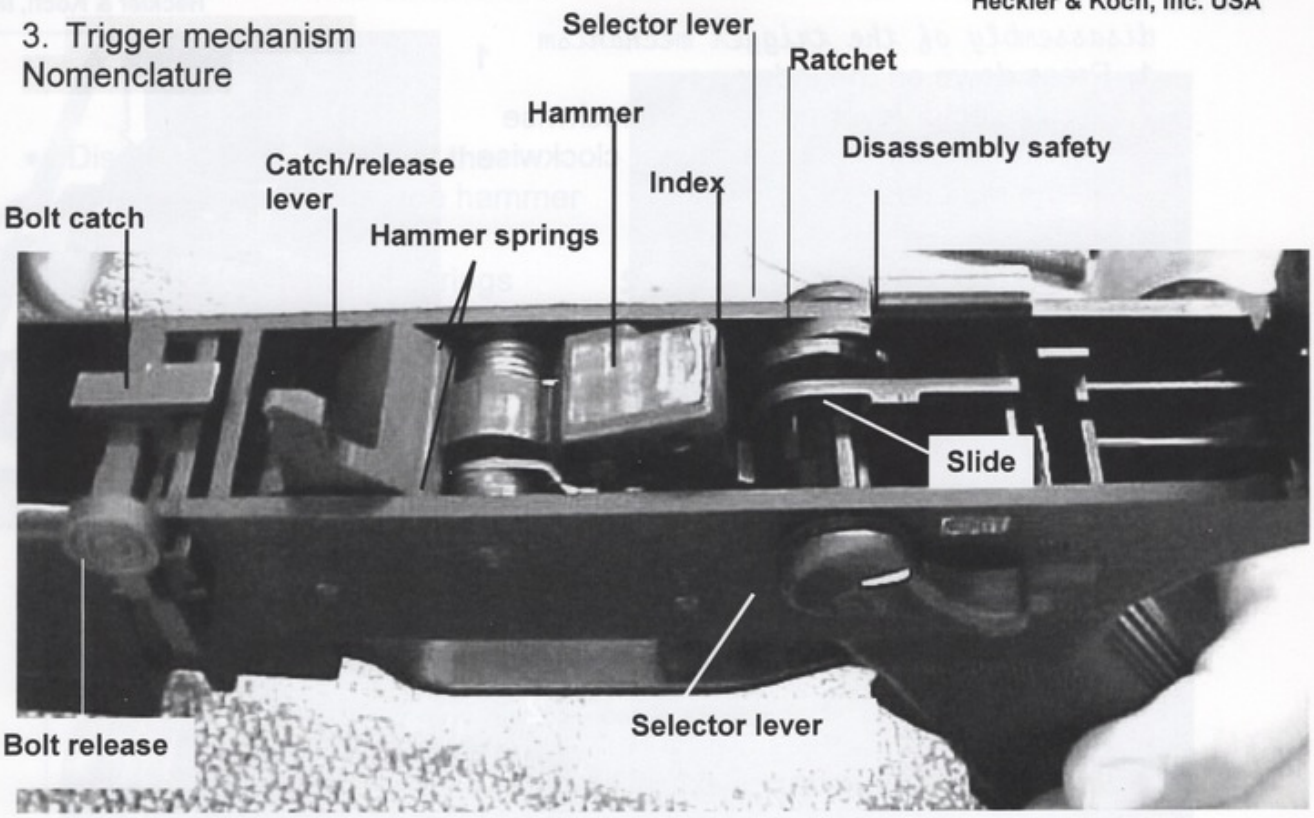




Recoil Spring Assembly

- The recoil spring guide's ends are fitted and hydraulically stamped
- There is no disassembly of this part
- If the recoil spring or guide fail, replace it with a new one

3. Trigger mechanism Nomenclature



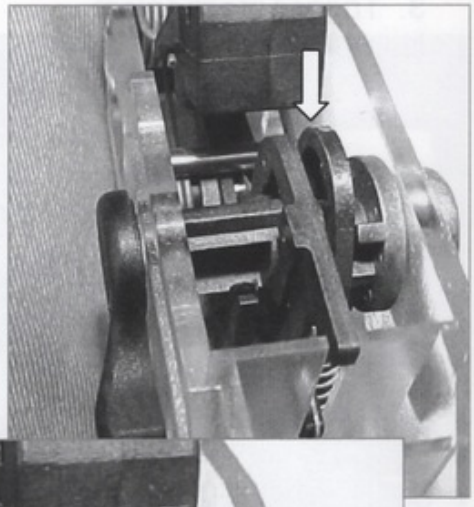
Note: The disassembly *safety engages* in the bottom of the bolt when the bolt is locked to the rear. This prevents the lower receiver from being hinged away from the receiver with a compressed recoil spring. Such disassembly without the safety may cause serious harm to the operator.

- Axle removal sequence

disassembly of the trigger mechanism

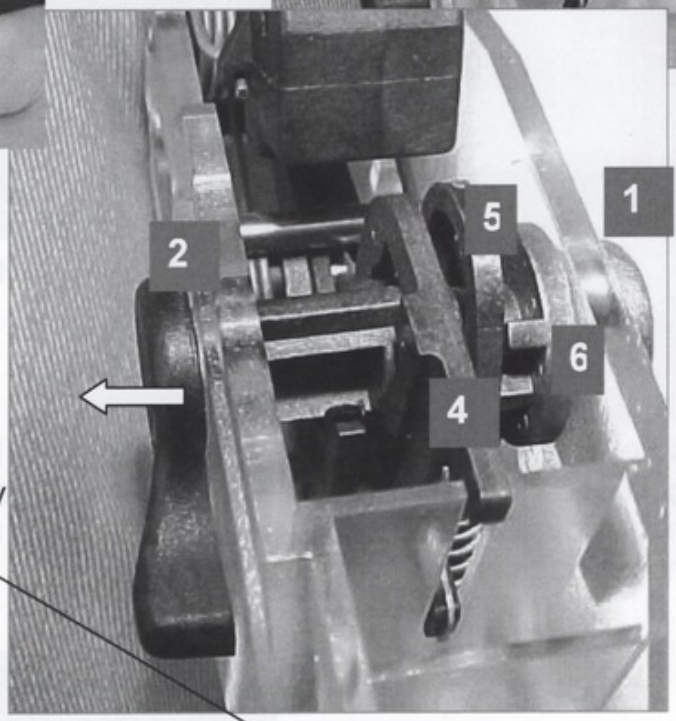
1. Press down on the index
2. Turn selector lever up counter-clockwise (on the left side) to 1 o"clock (or clockwise on the right side to 11 o'clock)

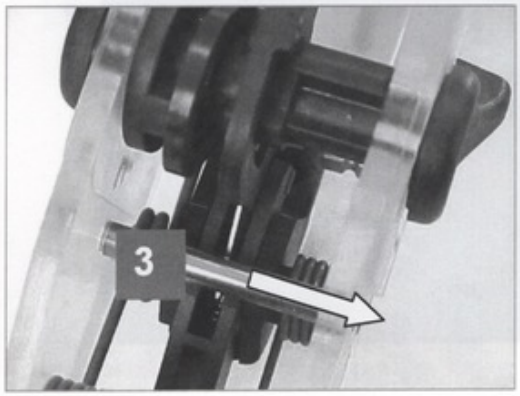
1



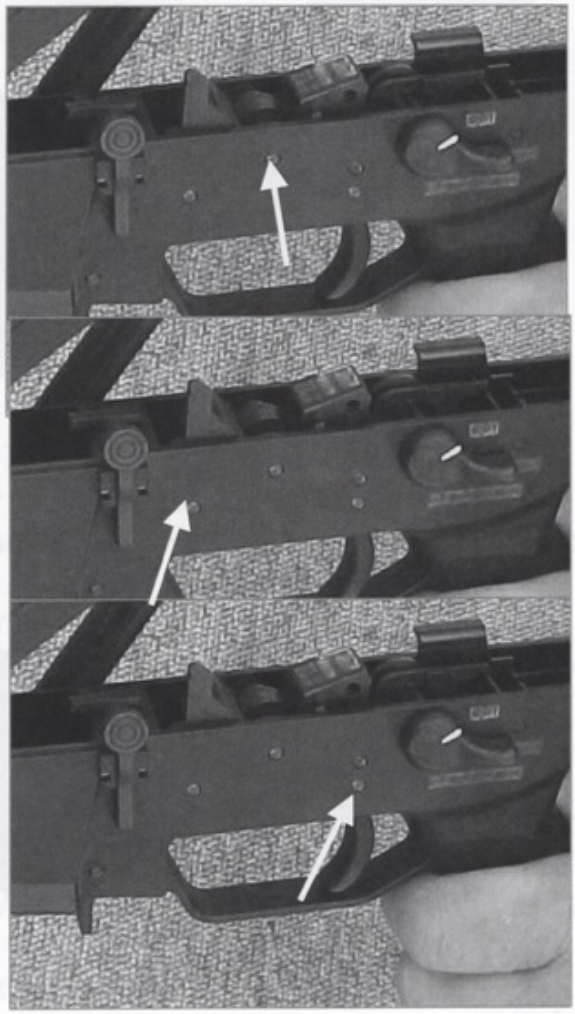
2

- Remove right side selector lever (1)
- Remove the selector lever and axle from the left side (2)
- Remove axle #1 (support axle) (3)
- Remove axle #2 & d/safety
- Remove slide (4)
- Remove index (5)
- Remove ratchet from right side of housing (6)





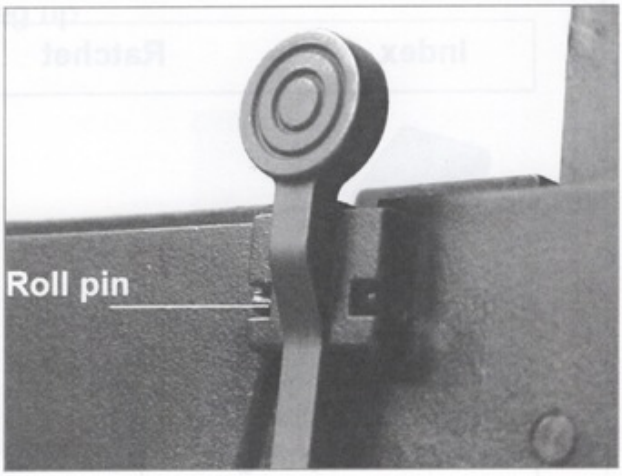
- Disengage active legs of the hammer springs from the hammer
- Drift out hammer axle
- Remove hammer and springs



- Drift out catch axle
- Remove catch & spring

- Drift out trigger axle
- Remove sear, sear spring, trigger and trigger return spring
- The trigger return spring is on the right side

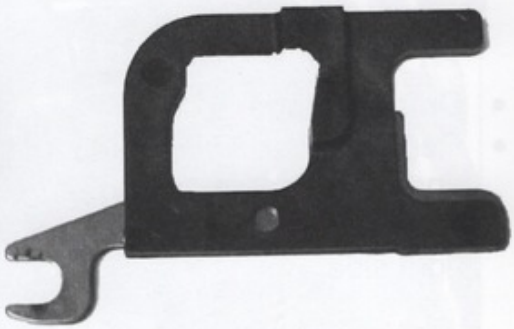
- Drift out bolt catch roll pin
- Remove bolt catch



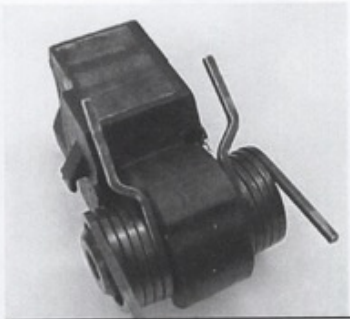
Parts Box

Trigger and spring

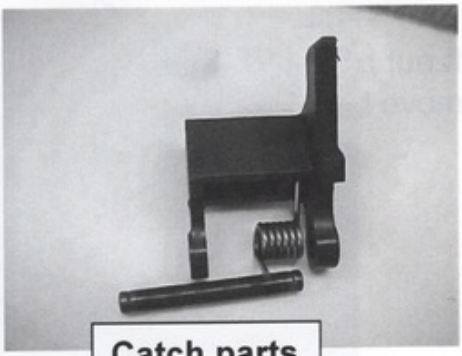
Sear and sear spring



Index Ratchet Slide

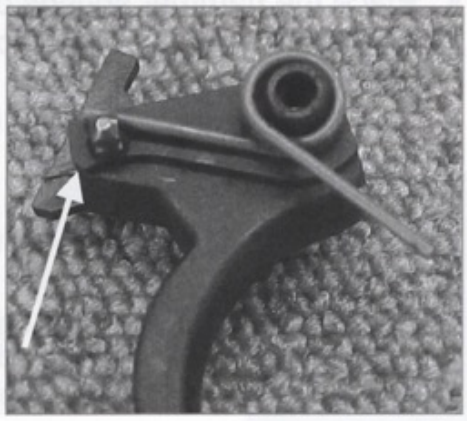


Hammer & springs
Note: springs are not oriented properly for reassembly



Catch parts

- *Reassemble trigger mechanism*
- Insert bolt catch
- Align holes and drift in roll pin



Trigger & sear

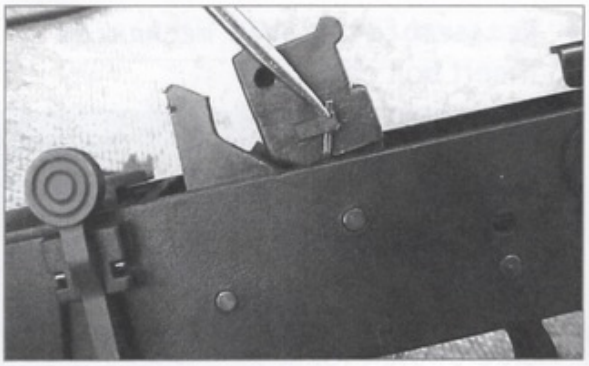
- **Note: replace all axles from right to left**
- Place trigger return spring on the right side of the trigger axle bushing, setting the active leg on the spring axle
- Start trigger axle in and slave trigger, leaving room for the sear
- Insert sear spring into bottom of sear (a little grease may help here)
- Insert assembly on top of trigger inserting the bottom of the sear spring into its seat on top of the trigger
- Push down compressing the sear spring
- When the sear axle hole aligns with the trigger axle hole, continue the trigger axle through

Catch

- Insert catch and slave from the right with the axle leaving room for the spring
- The left side dead leg of the catch spring must be under the left side of the catch. Insert the spring with the active leg lying on the flat surface of the catch
- Continue axle through
- Engage the left side active hammer spring to the hammer
- The dead leg is on the front wall leg up

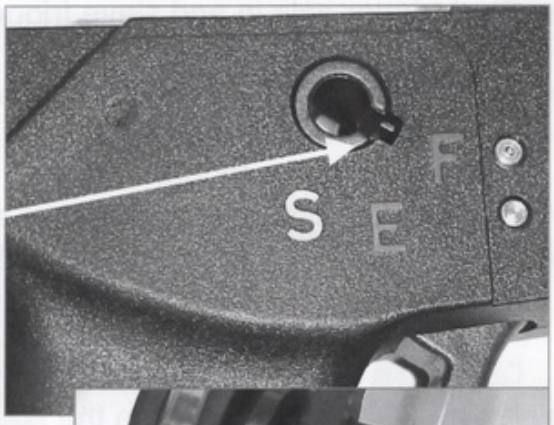
Hammer

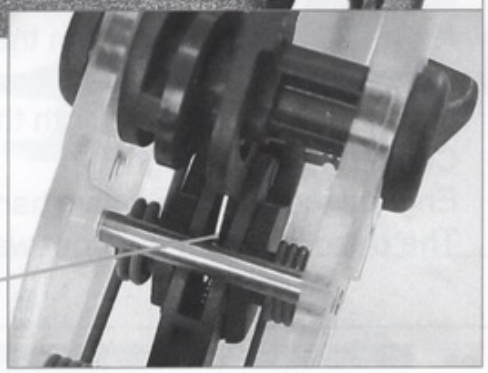
- Place the hammer springs on the hammer straight legs down, dog legs up
- Insert hammer and springs into housing straight legs down behind the polymer wall
- Insert hammer axle flush with both sides
- Engage the active legs (dog leg) of the hammer springs



The remainder of the mechanism

- Insert the *ratchet* into the right side of the housing from inside
- Align the keyholes in the housing and ratchet
- Insert the right side *selector lever* to maintain the alignment
- Thread the *index spring* onto the *index*
- Insert the bottom of the *index* in the hole at the bottom of the housing with the index arrow towards the *ratchet*
- Compress the *index* and engage it on the *ratchet*
- Insert the horseshoe end of the slide through the top center of the sear engaging it onto the trigger axle
- Insert support axle

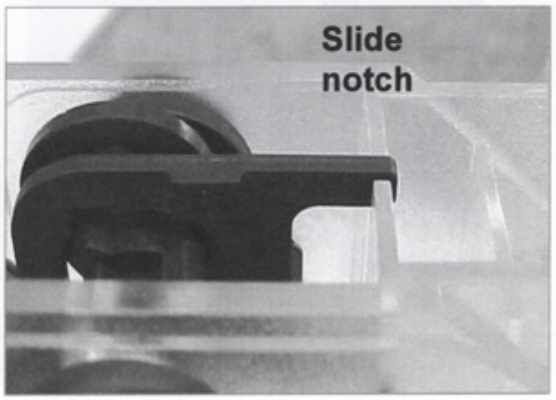




Insert disassembly safety

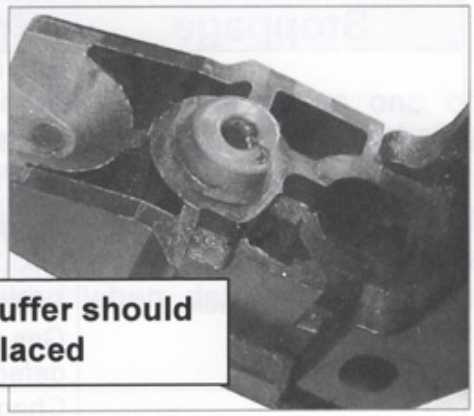
Insert axle #2

- Insert selector lever from left side
- Compress the index and rotate the selector levers to "safe"

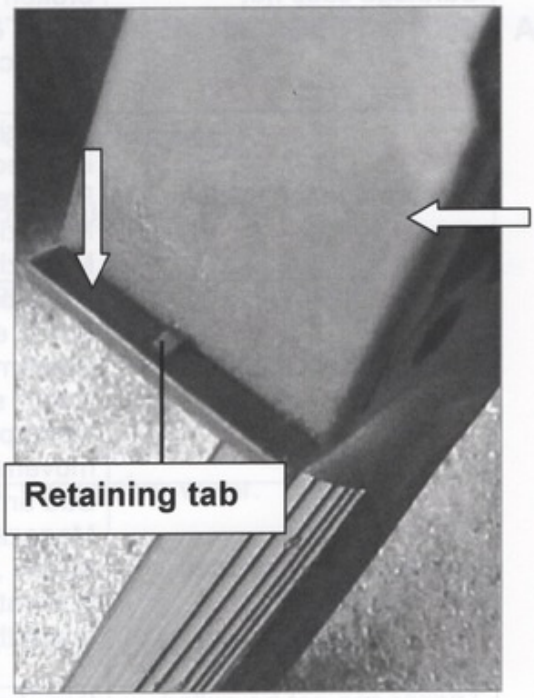


Backplate & buffer

- To remove the buffer, insert one leg of needle nose pliers into the center of the buffer and pull the buffer out
- Insert th new buffer and tap it in with a hammer
- The buffers of the UMP and the G36 **are not** interchageable



- The backplate is held on to the trigger mechanism by a small tap in the rear
- The only time the backplate should be removed is if it needs to be replaced
- To remove it press down along side the small tap while pushing the backplate to the rear



Troubleshooting

Stoppage	Cause	Remedy
Cartridge is not ignited	Bad ammo Tip of firing pin damaged or broken Hammer spring damaged or broken	Recock weapon Replace firing pin Replace hammer spring
Bolt does not unlock	Cartridge case stuck in chamber due to deformed or dirty chamber Gas system fouled of defective	Unload: retract bolt to eject casing, clean chamber if fouled Clean gas piston & cylinder
Cartridge case not extracted or ejected	Chamber dirty Extractor or ejector spring broken or missing Insufficient bolt recoil	Clean chamber Replace spring/s Manually extract cartridge, replace ammo or clean chamber
No cartridge fed by bolt	Magazine not properly inserted Follower spring lame Magazine lips damaged Magazine well damaged	Re-insert magazine properly Replace magazine spring Replace magazine Repair magazine well
Bolt not closed completely	Chamber dirty Barrel extension dirty Bad ammo Recoil spring lame Incomplete cocking movement	Clean Clean Replace Replace Recock; do not ride cocking handle forward
Bolt does not stay open after last shot	Bad ammo Magazine follower spring lame Bolt catch spring not set correctly	Replace ammo Replace follower spring Move bolt catch srping in trigger mechanism to the right side position
Trigger can not be pulled with hammer cocked	Sear broken or compression spring lame	Replace either or both parts
Firing with markedly increased rate of fire	Gas piston broken	Replace
Circular rubber buffer is missing or cracked	Excessive use	Replace with new buffer
Magazine stuck in magazine well	Magazine damaged Magazine release defective	Replace Repair

INSPECTION

LTI (Limited Technical Inspection)

Armorers are called upon to perform equipment inspections as one of their functions. These inspections are generally referred to as LTI'S. They are limited in the sense that they do not require full examination of each technical facet of the equipment, but have as their purpose a lesser objective. LTIs are directed at determining the effectiveness of a maintenance program, or determining weapon safety for firing range use. LTIs are required when determining budget and ordering requirements for parts and supplies.

Procedure:
This is an example of how the inspection of the UMP can be conducted:

PRIOR TO THE LTI THE UMP MUST FIRST BE GIVEN A SAFETY CHECK AND THEN FIELD STRIPPED.

Once the serial number is accurately recorded, Inspect:

1. **Muzzle** - Observe for dents burrs, bulges.
2. **Barrel** - Same as above plus finish and bends. Barrel pin is secure
3. **Sights** - Complete, tight, dirty.
4. **Receiver** - Cracks, dents, bulges, excessive wear.
5. **Trigger** - Return spring, cracks, wear.
6. **Trigger mechanism** - Excessive wear - axle holes - dirty rear sight - complete, tight, dirty.
7. **Magazine release mechanism** - Function, complete, wear.
8. **Magazine** - Lips bent, split, broken, housing dented, dirty.

Assemble the weapon and do a function check

Uses for the LTI are many, here are some examples:.

Pre-range fire inspection - can be as detailed as the inspector wants but should at the very least include a check of the safeties and rod the bore.

Post shooting inspection - a must after a shooting. Have your paperwork in order for this one, since this will probably end up in court.

Scheduled periodic inspection - this type of inspection is where the minor problems caused by wear are noticed and repaired before they become major problems. Should be performed at least annually, but can be as often as necessary depending on user need.

RECORD KEEPING

1. ACCOUNTABILITY RECORDS

Used to keep track of weapons. If a gun leaves your armory it must be signed for. Never get rid of the record of that transfer. In the armory, a serialized inventory should be kept and verified at least annually. Weapons in the armory should be stored by make and model, and in serial number sequence. A cross-reference alpha file should also be maintained.

2. ROUND COUNT

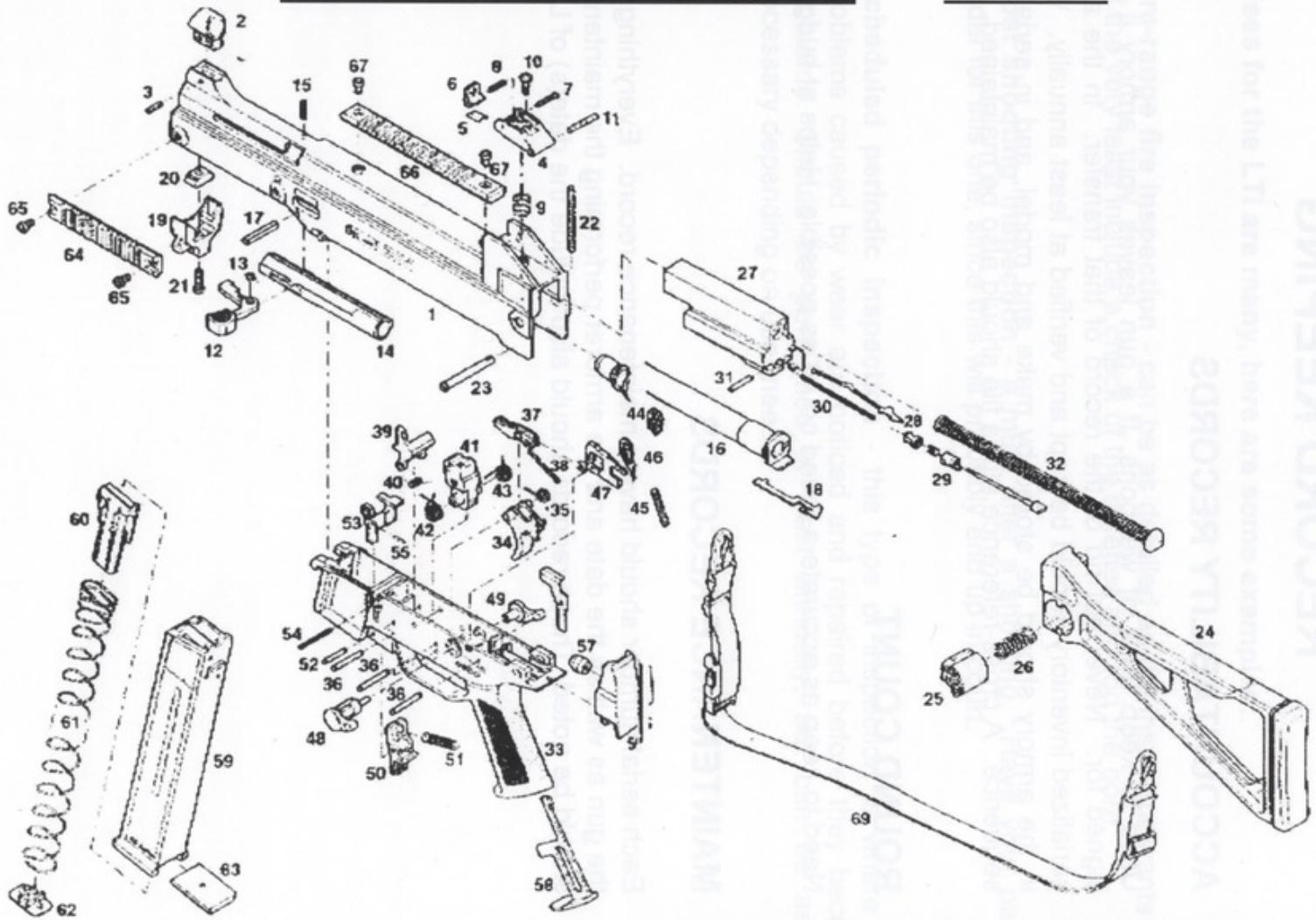
Need to keep as accurate a round count as possible. Helps at budget time.

3. MAINTENANCE RECORDS

Each serial number should have a maintenance record. Everything done to the gun as well as the date and the armorer performing the maintenance should be noted. These records should also include the date(s) of LTIs.

UMP Exploded Diagram

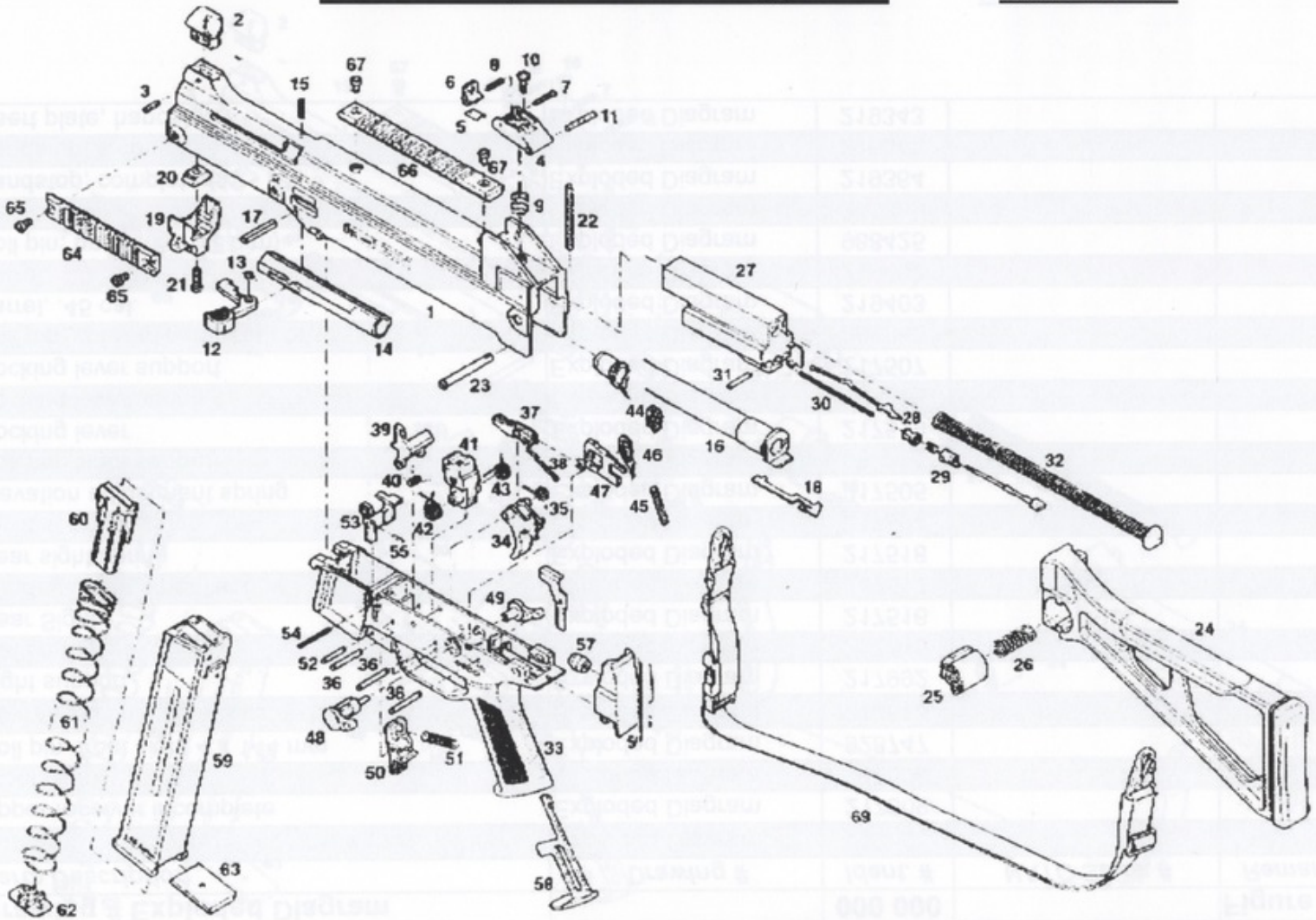
Items 1 - 20



UMP Parts list					
	Drawing # Exploded Diagram		**000 000**		**Figure #1**
Item	***Parts Description***	***Drawing #***	***Ident. #***	***NATO Stock #***	***Remarks***
	Upper receiver w/barrel, complete (pos. 1-21)	Exploded Diagram	217503		
1	Upper receiver incomplete	Exploded Diagram	217509		
2	Front sight	Exploded Diagram	217506		
3	Roll pin, front sight 4 x 144 mm	Exploded Diagram	928747		
	Rear sight, complete (pos. 4-10)	Exploded Diagram	217513		
4	Sight support	Exploded Diagram	217992		
5	Flat spring	Exploded Diagram	217515		
6	Rear Sight	Exploded Diagram	217516		
7	Windage adjustment screw	Exploded Diagram	217517		
8	Rear sight spring	Exploded Diagram	217518		
9	Sight support spring	Exploded Diagram	217504		
10	Elevation adjustment spring	Exploded Diagram	217505		
11	Roll pin, sight support	Exploded Diagram	987695		
12	Cocking lever	Exploded Diagram	217519		
13	Cocking lever spring	Exploded Diagram	217508		
14	Cocking lever support	Exploded Diagram	217507		
15	Roll pin, cocking lever support	Exploded Diagram	986546		
16	Barrel, .45 cal.	Exploded Diagram	219403		
*	Barrel, .40 S&W	Exploded Diagram	219402		
17	Roll pin, barrel (6 x 32 mm)	Exploded Diagram	988425		
18	Ejector	Exploded Diagram	219399		
	Handstop, complete (19 - 21)	Exploded Diagram	219364		
19	Handstop, incomplete	Exploded Diagram	219342		
20	Insert plate, handstop	Exploded Diagram	219343		

UMP Exploded Diagram

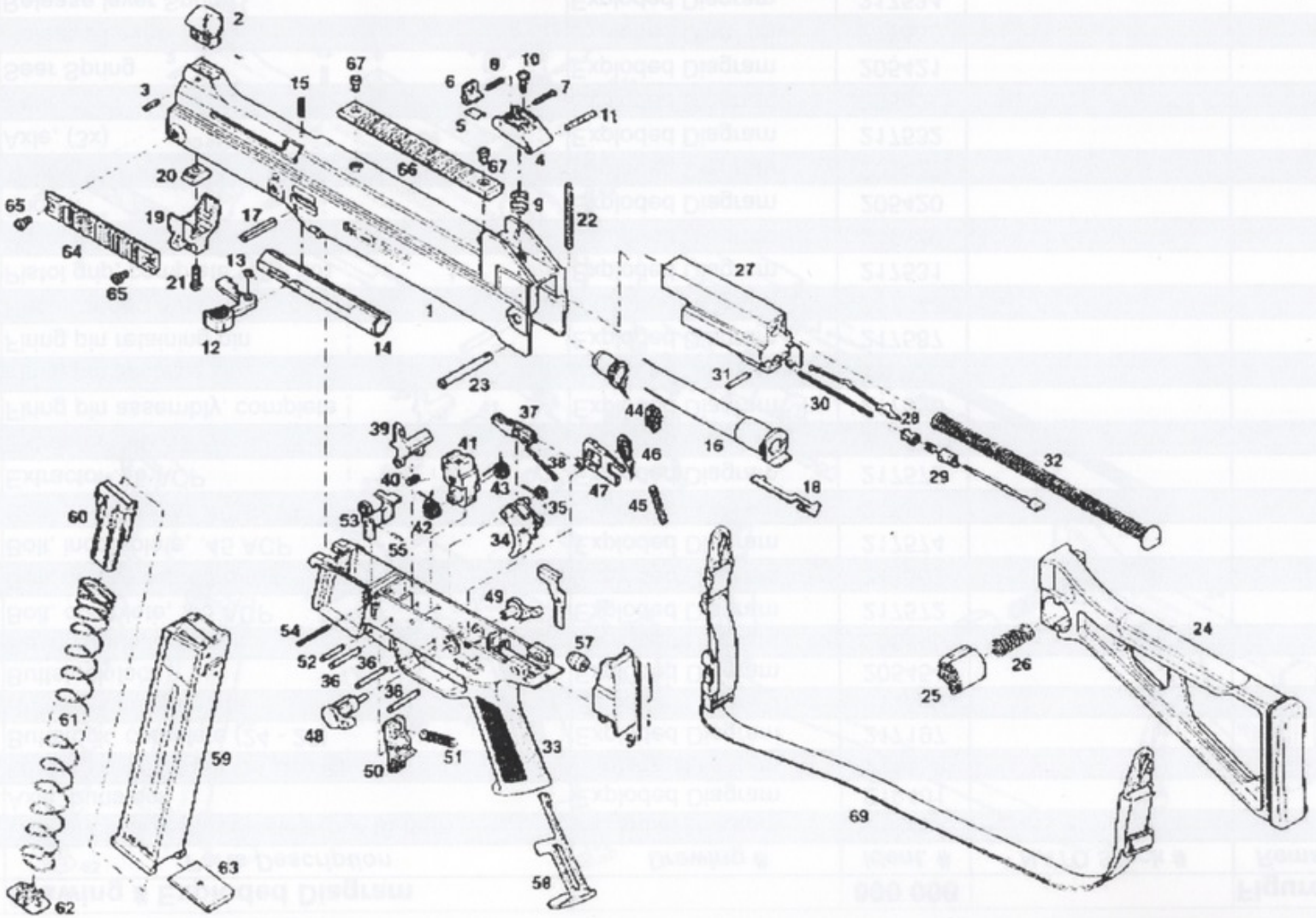
Items 21 - 41



UMP Parts list					
	Drawing # Exploded Diagram		**000 000**		**Figure #1**
Item	***Parts Description***	***Drawing #***	***Ident. #***	***NATO Stock #***	***Remarks***
21	Cylindrical screw, handstop (5 x 16 mm)	Exploded Diagram	219414		
22	Axle, buttstock	Exploded Diagram	219401		
23	Locking pin (Takedown pin) Rear	Exploded Diagram	217558		
	Buttstock, complete (24 - 26)	Exploded Diagram	217197		
24	Buttstock, incomplete	Exploded Diagram	217559		
25	Buttstock lock	Exploded Diagram	205454		
26	Spring, buttstock lock	Exploded Diagram	205455		
	Bolt, complete, .45 ACP	Exploded Diagram	217572		
	Bolt, complete, .40 S&W	Exploded Diagram	217562		
27	Bolt, incomplete, .45 ACP	Exploded Diagram	217574		
27	Bolt, incomplete, .40 S&W	Exploded Diagram	217564		
28	Extractor .45 ACP	Exploded Diagram	217573		
28	Extractor, .40 S&W	Exploded Diagram	217231		
29	Firing pin assembly, complete	Exploded Diagram	217555		
30	Firing pin spring	Exploded Diagram	217523		
31	Firing pin retaining pin	Exploded Diagram	217587		
32	Recoil spring assembly, complete	Exploded Diagram	217548		
	Pistol grip, complete (33 - 58)	Exploded Diagram	217531		
33	Pistol grip, incomplete	Exploded Diagram	217546		
34	Trigger	Exploded Diagram	205420		
35	Trigger spring	Exploded Diagram	205422		
36	Axle, (3x)	Exploded Diagram	217532		
37	Sear	Exploded Diagram	205439		
38	Sear Spring	Exploded Diagram	205421		
39	Release Lever	Exploded Diagram	217535		
40	Release lever Spring	Exploded Diagram	217534		
41	Hammer	Exploded Diagram	217545		

UMP Exploded Diagram

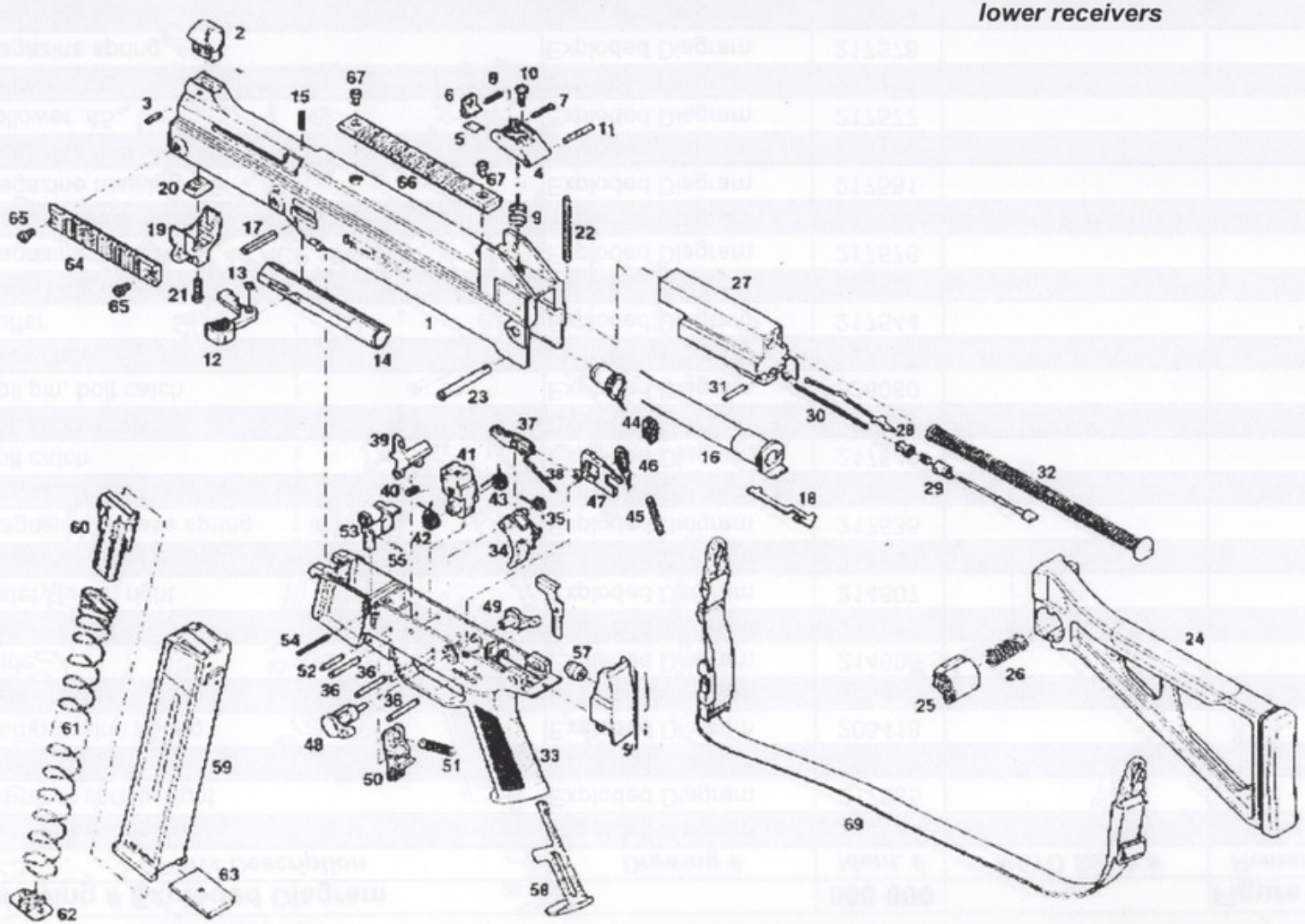
Items 42 - 62



UMP Parts list					
	Drawing # Exploded Diagram		**000 000**		**Figure #1**
Item	***Parts Description***	***Drawing #***	***Ident. #***	***NATO Stock #***	***Remarks***
42	Hammer spring, left	Exploded Diagram	217533		
43	Hammer spring, right	Exploded Diagram	217585		
44	Notched disk	Exploded Diagram	205417		
45	Compression spring	Exploded Diagram	205418		
46	Index plate	Exploded Diagram	205419		
47	Slide	Exploded Diagram	214608		
48	Safety lever, left	Exploded Diagram	217753		
49	Safety lever, right	Exploded Diagram	214607		
50	Magazine release	Exploded Diagram	217537		
51	Magazine release spring	Exploded Diagram	217536		
52	Magazine release axle	Exploded Diagram	217538		
53	Bolt catch	Exploded Diagram	217540		
54	Bolt catch spring	Exploded Diagram	217539		
55	Roll pin, bolt catch	Exploded Diagram	928080		
56	Back plate	Exploded Diagram	217541		
57	Buffer	Exploded Diagram	217544		
58	Pistol Grip cover	Exploded Diagram	205438		
	Magazine, complete, .45 ACP (59 - 63)	Exploded Diagram	217576		
	Magazine, complete .40 S&W (59 - 63)	Exploded Diagram	217766		
59	Magazine housing .45	Exploded Diagram	217581		
	Magazine housing .40	Exploded Diagram	217767		
60	Follower .45	Exploded Diagram	217577		
	Follower .40	Exploded Diagram	217769		
61	Magazine spring .45	Exploded Diagram	217578		
	Magazine spring .40	Exploded Diagram	217799		
62	Locking plate .45	Exploded Diagram	217579		
	Locking plate .40	Exploded Diagram	217770		

UMP Exploded Diagram

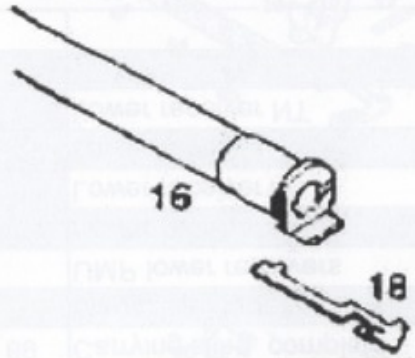
Items 63 – 70
Including additional
lower receivers

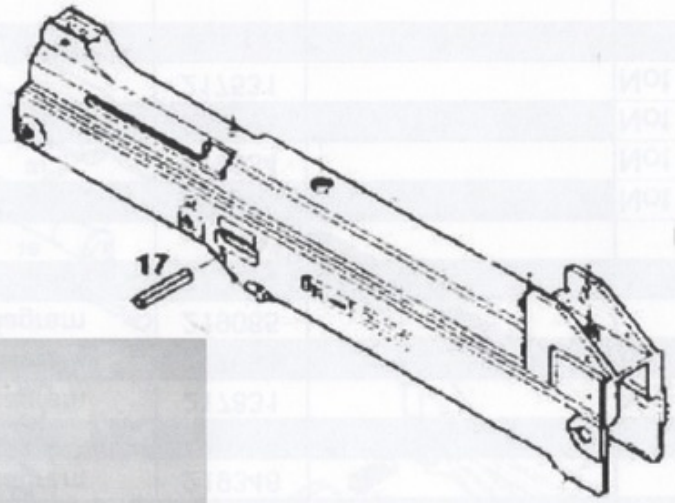


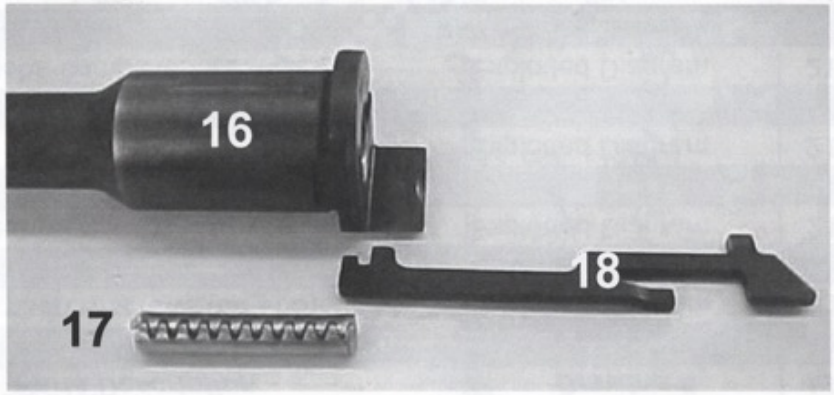
UMP Parts list					
	Drawing # Exploded Diagram		**000 000**		**Figure #1**
Item	***Parts Description***	***Drawing #***	***Ident. #***	***NATO Stock #***	***Remarks***
63	Floor plate	Exploded Diagram	217580		
	Picatinney rail, short w/screws (64 - 65)	Exploded Diagram	219362		
64	Picatinney rail, short	Exploded Diagram	219341		
65	Cylindrical screws (2x)	Exploded Diagram	219413		
	Picatinney rail, long complete (66 - 67)	Exploded Diagram	219363		
66	Picatinney rail, long	Exploded Diagram	219346		
67	Cylindrical screws (2x)	Exploded Diagram	219413		
68	Sound suppressor, complete, .45 ACP	Exploded Diagram	217831		Not shown
	Sound suppressor, complete, .40 S&W	Exploded Diagram	217831		Not shown
69	Carrying sling, complete	Exploded Diagram	219085		
70	Magazine loader	Exploded Diagram	219404		
	UMP lower receivers				
*	Lower receiver SF		219636		Not shown
*	Lower receiver12		219634		Not shown
*	Lower receiver 2RB		219632		Not shown
*	Lower receiver NT		217531		Not shown

Barrel and Ejector

16	Barrel, .45 cal.	Exploded Diagram	219403		
*	Barrel, .40 S&W	Exploded Diagram	219402		Not shown
17	Roll pin, barrel (6 x 32 mm)	Exploded Diagram	988425		
18	Ejector	Exploded Diagram	219399		

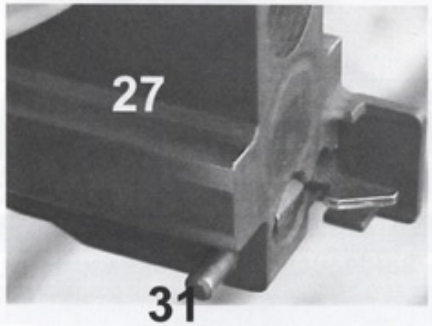


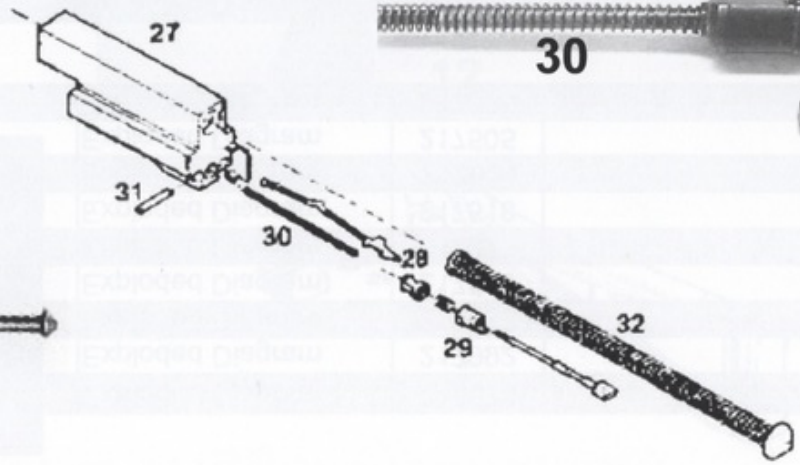


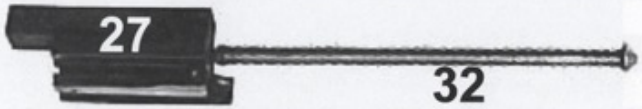


Bolt assembly

	Bolt, complete, .45 ACP	Exploded Diagram	217572		
	Bolt, complete, .40 S&W	Exploded Diagram	217562		
27	Bolt, incomplete, .45 ACP	Exploded Diagram	217574		
27	Bolt, incomplete, .40 S&W	Exploded Diagram	217564		
28	Extractor .45 ACP	Exploded Diagram	217573		
28	Extractor, .40 S&W	Exploded Diagram	217231		
29	Firing pin assembly, complete	Exploded Diagram	217555		
30	Firing pin spring	Exploded Diagram	217523		
31	Firing pin retaining pin	Exploded Diagram	217587		
32	Recoil spring assembly, complete	Exploded Diagram	217548		







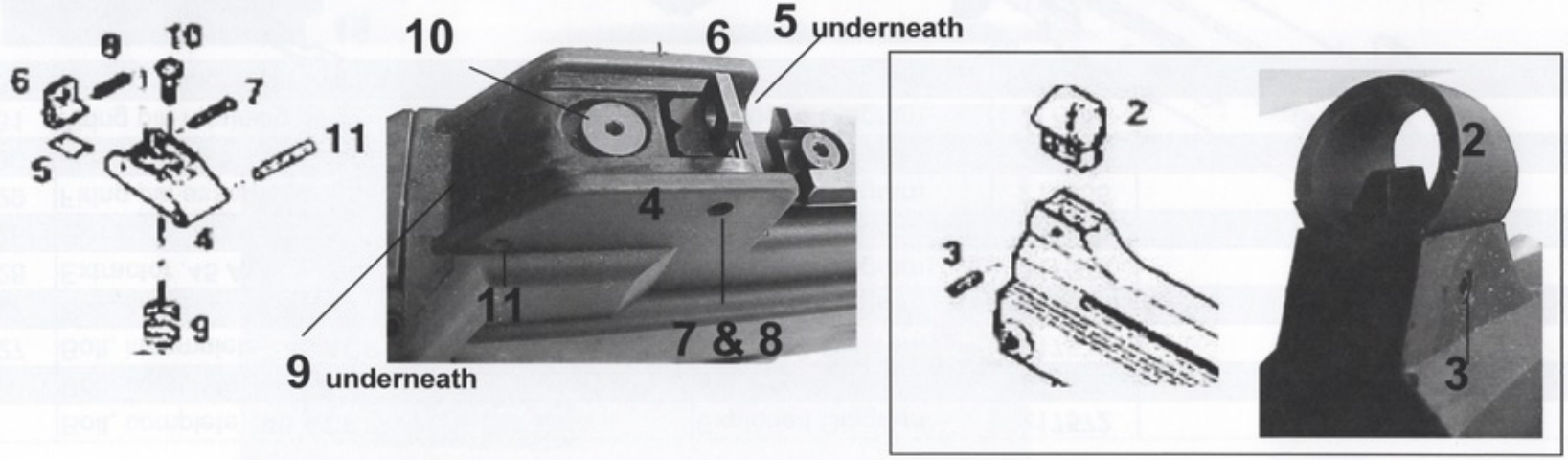
Sights

Rear sight

	Rear sight, complete (pos. 4-10)	Exploded Diagram	217513		
4	Sight support	Exploded Diagram	217992		
5	Flat spring	Exploded Diagram	217515		
6	Rear Sight	Exploded Diagram	217516		
7	Windage adjustment screw	Exploded Diagram	217517		
8	Rear sight spring	Exploded Diagram	217518		
9	Sight support spring	Exploded Diagram	217504		
10	Elevation adjustment spring	Exploded Diagram	217505		
11	Roll pin, sight support	Exploded Diagram	987695		

Front sight

2	Front sight	Exploded Diagram	217506		
3	Roll pin, front sight 4 x 144 mm	Exploded Diagram	928747		

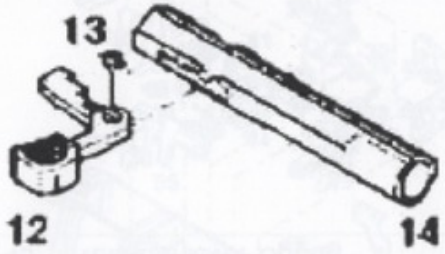


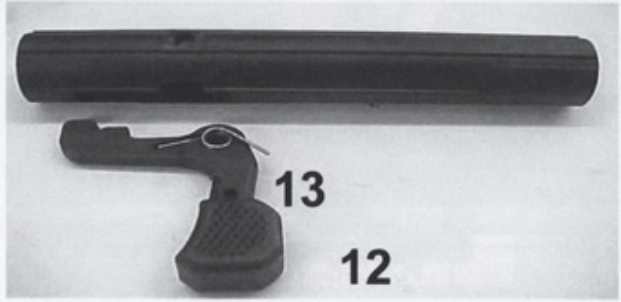
Cocking Handle/Support & Stock

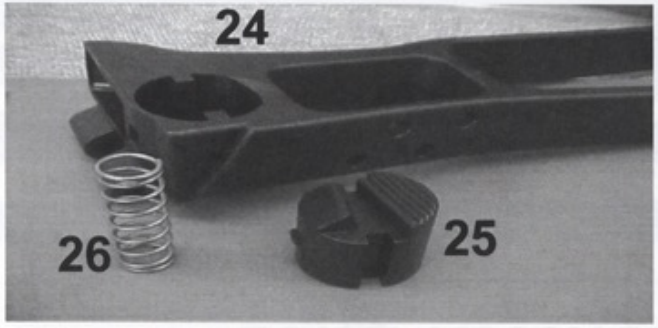
12	Cocking lever	Exploded Diagram	217519		
13	Cocking lever spring	Exploded Diagram	217508		
14	Cocking lever support	Exploded Diagram	217507		
15	Roll pin, cocking lever support	Exploded Diagram	986546		

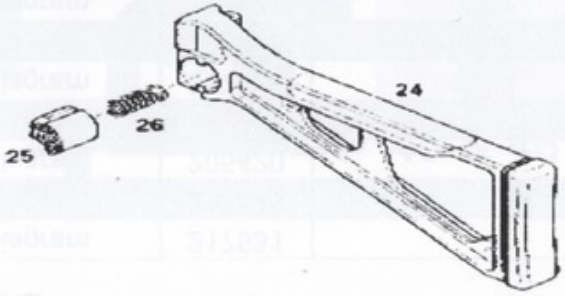
Buttstock

	Buttstock, complete (24 - 26)	Exploded Diagram	217197		
24	Buttstock, incomplete	Exploded Diagram	217559		
25	Buttstock lock	Exploded Diagram	205454		
26	Spring, buttstock lock	Exploded Diagram	205455		



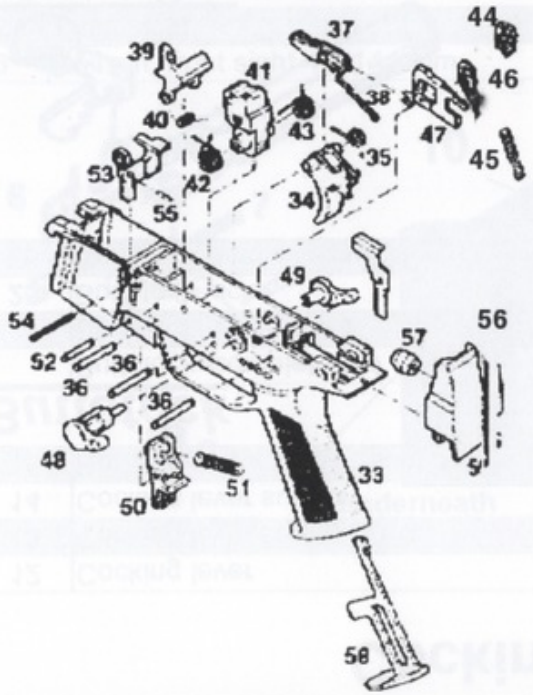


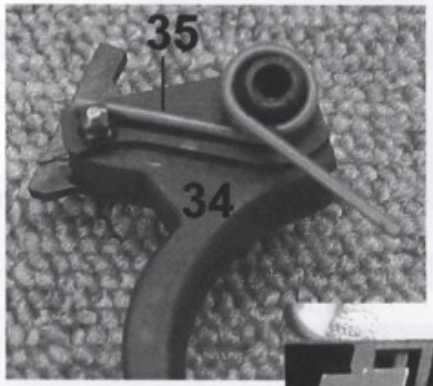


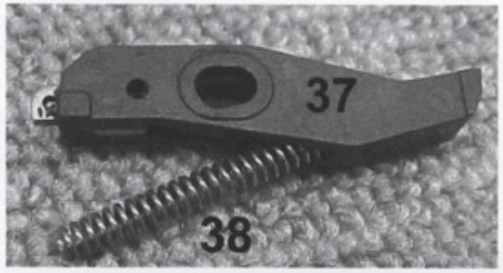


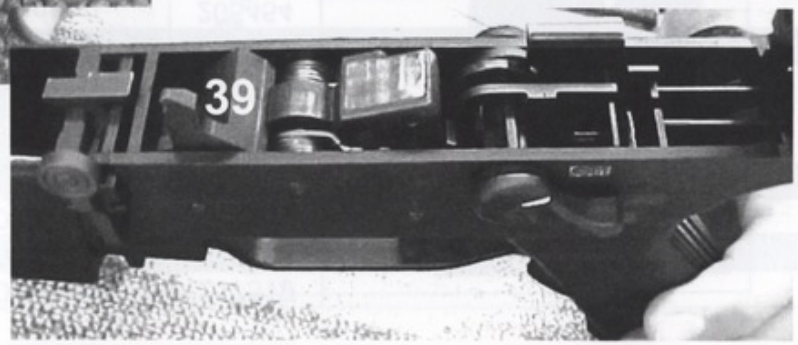
Lower Receiver & Trigger Mechanism

	Pistol grip, complete (33 - 58)	Exploded Diagram	217531		
33	Pistol grip, incomplete	Exploded Diagram	217546		
34	Trigger	Exploded Diagram	205420		
35	Trigger spring	Exploded Diagram	205422		
36	Axle, (3x)	Exploded Diagram	217532		
37	Sear	Exploded Diagram	205439		
38	Sear Spring	Exploded Diagram	205421		
39	Release Lever	Exploded Diagram	217535		
40	Release lever Spring	Exploded Diagram	217534		



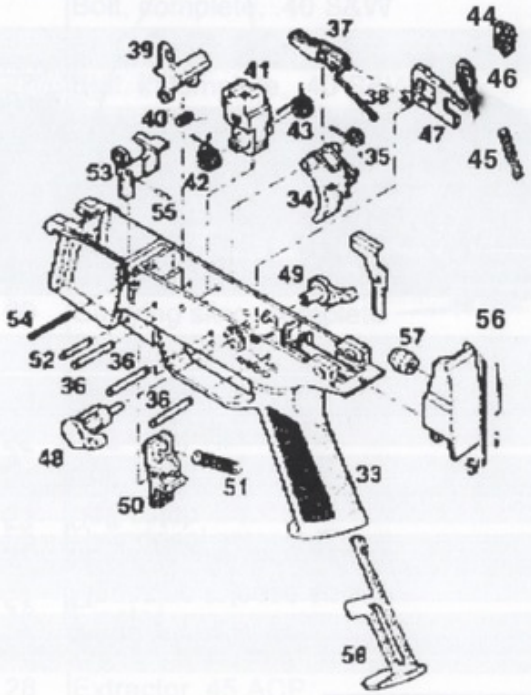


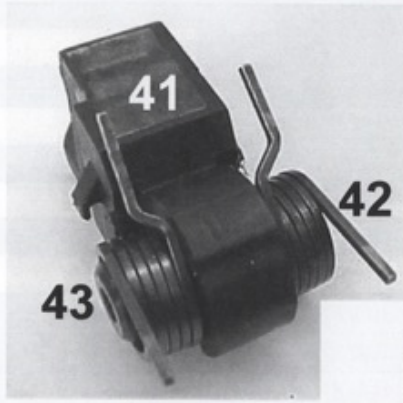




Lower Receiver & Trigger Mechanism

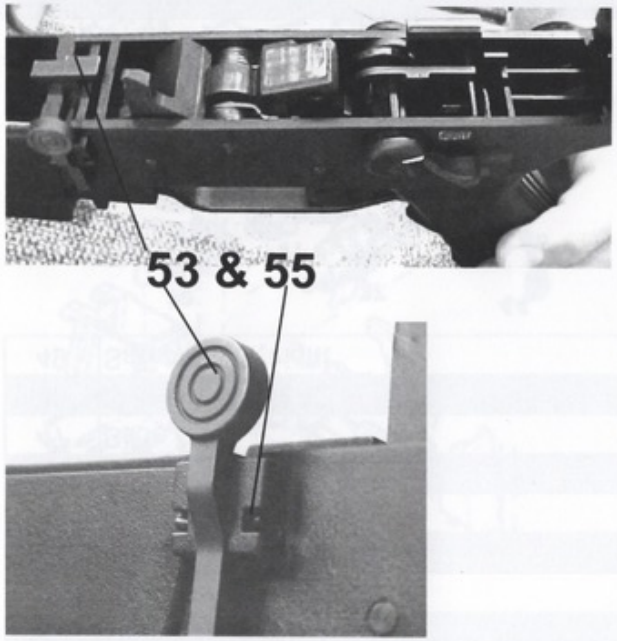
41	Hammer	Exploded Diagram	217545		
42	Hammer spring, left	Exploded Diagram	217533		
43	Hammer spring, right	Exploded Diagram	217585		
44	Notched disk	Exploded Diagram	205417		
45	Compression spring	Exploded Diagram	205418		
46	Index plate	Exploded Diagram	205419		
47	Slide	Exploded Diagram	214608		
48	Safety lever, left	Exploded Diagram	217753		
49	Safety lever, right	Exploded Diagram	214607		

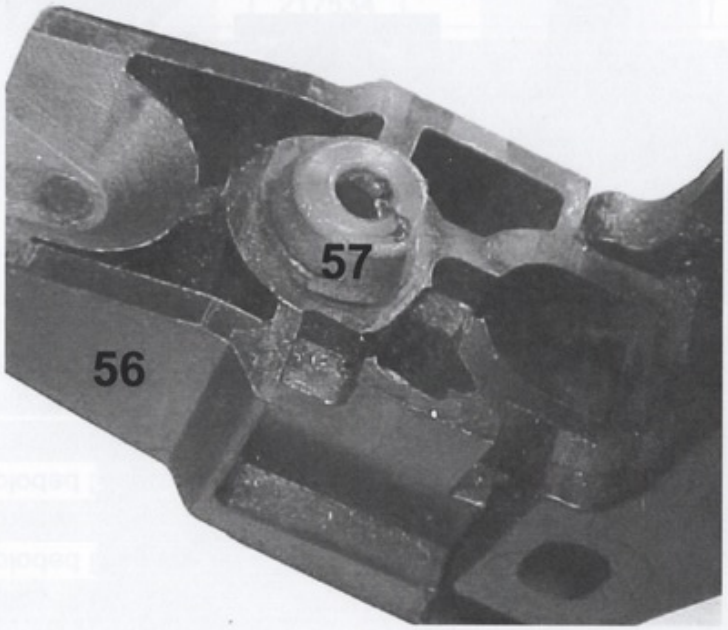




Lower Receiver & Trigger Mechanism

50	Magazine release	Exploded Diagram	217537		
51	Magazine release spring	Exploded Diagram	217536		
52	Magazine release axle	Exploded Diagram	217538		
53	Bolt catch	Exploded Diagram	217540		
54	Bolt catch spring	Exploded Diagram	217539		
55	Roll pin, bolt catch	Exploded Diagram	928080		
56	Back plate	Exploded Diagram	217541		
57	Buffer	Exploded Diagram	217544		





UMP Parts list - Alpha					
	Drawing # Exploded Diagram		**000 000**		**Figure #1**
Item	***Parts Description***	***Drawing #***	***Ident. #***	***NATO Stock #***	***Remarks***
36	Axle, (3x)	Exploded Diagram	217532		
22	Axle, buttstock	Exploded Diagram	219401		
56	Back plate	Exploded Diagram	217541		
*	Barrel, .40 S&W	Exploded Diagram	219402		
16	Barrel, .45 cal.	Exploded Diagram	219403		
53	Bolt catch	Exploded Diagram	217540		
54	Bolt catch spring	Exploded Diagram	217539		
	Bolt, complete, .40 S&W	Exploded Diagram	217562		
	Bolt, complete, .45 ACP	Exploded Diagram	217572		
27	Bolt, incomplete, .40 S&W	Exploded Diagram	217564		
27	Bolt, incomplete, .45 ACP	Exploded Diagram	217574		
57	Buffer	Exploded Diagram	217544		
25	Buttstock lock	Exploded Diagram	205454		
	Buttstock, complete (24 - 26)	Exploded Diagram	217197		
24	Buttstock, incomplete	Exploded Diagram	217559		
69	Carrying sling, complete	Exploded Diagram	219085		
12	Cocking lever	Exploded Diagram	217519		
13	Cocking lever spring	Exploded Diagram	217508		
14	Cocking lever support	Exploded Diagram	217507		
45	Compression spring	Exploded Diagram	205418		
21	Cylindrical screw, handstop (5 x 16 mm)	Exploded Diagram	219414		
65	Cylindrical screws (2x)	Exploded Diagram	219413		
67	Cylindrical screws (2x)	Exploded Diagram	219413		
18	Ejector	Exploded Diagram	219399		
10	Elevation adjustment spring	Exploded Diagram	217505		
28	Extractor .45 ACP	Exploded Diagram	217573		
28	Extractor, .40 S&W	Exploded Diagram	217231		

UMP Parts list - Alpha					
	Drawing # Exploded Diagram		**000 000**		**Figure #1**
Item	***Parts Description***	***Drawing #***	***Ident. #***	***NATO Stock #***	***Remarks***
29	Firing pin assembly, complete	Exploded Diagram	217555		
31	Firing pin retaining pin	Exploded Diagram	217587		
30	Firing pin spring	Exploded Diagram	217523		
5	Flat spring	Exploded Diagram	217515		
63	Floor plate	Exploded Diagram	217580		
	Follower .40	Exploded Diagram	217769		
60	Follower .45	Exploded Diagram	217577		
2	Front sight	Exploded Diagram	217506		
41	Hammer	Exploded Diagram	217545		
42	Hammer spring, left	Exploded Diagram	217533		
43	Hammer spring, right	Exploded Diagram	217585		
	Handstop, complete (19 - 21)	Exploded Diagram	219364		
19	Handstop, incomplete	Exploded Diagram	219342		
46	Index plate	Exploded Diagram	205419		
20	Insert plate, handstop	Exploded Diagram	219343		
23	Locking pin (Takedown pin) Rear	Exploded Diagram	217558		
	Locking plate .40	Exploded Diagram	217770		
62	Locking plate .45	Exploded Diagram	217579		
*	Lower receiver 2RB		219632		Not shown
*	Lower receiver NT		217531		Not shown
*	Lower receiver SF		219636		Not shown
*	Lower receiver 012		219634		Not shown
	Magazine housing .40	Exploded Diagram	217767		
59	Magazine housing .45	Exploded Diagram	217581		
70	Magazine loader	Exploded Diagram	219404		
50	Magazine release	Exploded Diagram	217537		
52	Magazine release axle	Exploded Diagram	217538		

UMP Parts list - Alpha					
	Drawing # Exploded Diagram		**000 000**		**Figure #1**
Item	***Parts Description***	***Drawing #***	***Ident. #***	***NATO Stock #***	***Remarks***
51	Magazine release spring	Exploded Diagram	217536		
	Magazine spring .40	Exploded Diagram	217799		
61	Magazine spring .45	Exploded Diagram	217578		
	Magazine, complete .40 S&W (59 - 63)	Exploded Diagram	217766		
	Magazine, complete, .45 ACP (59 - 63)	Exploded Diagram	217576		
44	Notched disk	Exploded Diagram	205417		
66	Picatinney rail, long	Exploded Diagram	219346		
	Picatinney rail, long complete (66 - 67)	Exploded Diagram	219363		
64	Picatinney rail, short	Exploded Diagram	219341		
	Picatinney rail, short w/screws (64 - 65)	Exploded Diagram	219362		
58	Pistol Grip cover	Exploded Diagram	205438		
	Pistol grip, complete (33 - 58)	Exploded Diagram	217531		
33	Pistol grip, incomplete	Exploded Diagram	217546		
6	Rear Sight	Exploded Diagram	217516		
8	Rear sight spring	Exploded Diagram	217518		
	Rear sight, complete (pos. 4-10)	Exploded Diagram	217513		
32	Recoil spring assembly, complete	Exploded Diagram	217548		
39	Release Lever	Exploded Diagram	217535		
40	Release lever Spring	Exploded Diagram	217534		
17	Roll pin, barrel (6 x 32 mm)	Exploded Diagram	988425		
55	Roll pin, bolt catch	Exploded Diagram	928080		
15	Roll pin, cocking lever support	Exploded Diagram	986546		
3	Roll pin, front sight 4 x 144 mm	Exploded Diagram	928747		
11	Roll pin, sight support	Exploded Diagram	987695		
48	Safety lever, left	Exploded Diagram	217753		
49	Safety lever, right	Exploded Diagram	214607		
37	Sear	Exploded Diagram	205439		

UMP Parts list - Alpha					
	Drawing # Exploded Diagram		**000 000**		**Figure #1**
Item	***Parts Description***	***Drawing #***	***Ident. #***	***NATO Stock #***	***Remarks***
38	Sear Spring	Exploded Diagram	205421		
4	Sight support	Exploded Diagram	217992		
9	Sight support spring	Exploded Diagram	217504		
47	Slide	Exploded Diagram	214608		
	Sound suppressor, complete, .40 S&W	Exploded Diagram	217831		Not shown
68	Sound suppressor, complete, .45 ACP	Exploded Diagram	217831		Not shown
26	Spring, buttstock lock	Exploded Diagram	205455		
34	Trigger	Exploded Diagram	205420		
35	Trigger spring	Exploded Diagram	205422		
	UMP lower receivers				
1	Upper receiver incomplete	Exploded Diagram	217509		
	Upper receiver w/barrel, complete (pos. 1-21)	Exploded Diagram	217503		
7	Windage adjustment screw	Exploded Diagram	217517		

UMP Parts list _ by ID #					
	Drawing # Exploded Diagram		**000 000**		**Figure #1**
Item	***Parts Description***	***Drawing #***	***Ident. #***	***NATO Stock #***	***Remarks***
44	Notched disk	Exploded Diagram	205417		
45	Compression spring	Exploded Diagram	205418		
46	Index plate	Exploded Diagram	205419		
34	Trigger	Exploded Diagram	205420		
38	Sear Spring	Exploded Diagram	205421		
35	Trigger spring	Exploded Diagram	205422		
58	Pistol Grip cover	Exploded Diagram	205438		
37	Sear	Exploded Diagram	205439		
25	Buttstock lock	Exploded Diagram	205454		
26	Spring, buttstock lock	Exploded Diagram	205455		
49	Safety lever, right	Exploded Diagram	214607		
47	Slide	Exploded Diagram	214608		
	Buttstock, complete (24 - 26)	Exploded Diagram	217197		
28	Extractor, .40 S&W	Exploded Diagram	217231		
	Upper receiver w/barrel, complete (pos. 1-21)	Exploded Diagram	217503		
9	Sight support spring	Exploded Diagram	217504		
10	Elevation adjustment spring	Exploded Diagram	217505		
2	Front sight	Exploded Diagram	217506		
14	Cocking lever support	Exploded Diagram	217507		
13	Cocking lever spring	Exploded Diagram	217508		
1	Upper receiver incomplete	Exploded Diagram	217509		
	Rear sight, complete (pos. 4-10)	Exploded Diagram	217513		
5	Flat spring	Exploded Diagram	217515		
6	Rear Sight	Exploded Diagram	217516		
7	Windage adjustment screw	Exploded Diagram	217517		
8	Rear sight spring	Exploded Diagram	217518		
12	Cocking lever	Exploded Diagram	217519		

UMP Parts list _ by ID #					
	Drawing # Exploded Diagram		**000 000**		**Figure #1**
Item	***Parts Description***	***Drawing #***	***Ident. #***	***NATO Stock #***	***Remarks***
30	Firing pin spring	Exploded Diagram	217523		
*	Lower receiver NT		217531		Not shown
	Pistol grip, complete (33 - 58)	Exploded Diagram	217531		
36	Axle, (3x)	Exploded Diagram	217532		
42	Hammer spring, left	Exploded Diagram	217533		
40	Release lever Spring	Exploded Diagram	217534		
39	Release Lever	Exploded Diagram	217535		
51	Magazine release spring	Exploded Diagram	217536		
50	Magazine release	Exploded Diagram	217537		
52	Magazine release axle	Exploded Diagram	217538		
54	Bolt catch spring	Exploded Diagram	217539		
53	Bolt catch	Exploded Diagram	217540		
56	Back plate	Exploded Diagram	217541		
57	Buffer	Exploded Diagram	217544		
41	Hammer	Exploded Diagram	217545		
33	Pistol grip, incomplete	Exploded Diagram	217546		
32	Recoil spring assembly, complete	Exploded Diagram	217548		
29	Firing pin assembly, complete	Exploded Diagram	217555		
23	Locking pin (Takedown pin) Rear	Exploded Diagram	217558		
24	Buttstock, incomplete	Exploded Diagram	217559		
	Bolt, complete, .40 S&W	Exploded Diagram	217562		
27	Bolt, incomplete, .40 S&W	Exploded Diagram	217564		
	Bolt, complete, .45 ACP	Exploded Diagram	217572		
28	Extractor .45 ACP	Exploded Diagram	217573		
27	Bolt, incomplete, .45 ACP	Exploded Diagram	217574		
	Magazine, complete, .45 ACP (59 - 63)	Exploded Diagram	217576		
60	Follower .45	Exploded Diagram	217577		

UMP Parts list _ by ID #					
	Drawing # Exploded Diagram		**000 000**		**Figure #1**
Item	***Parts Description***	***Drawing #***	***Ident. #***	***NATO Stock #***	***Remarks***
61	Magazine spring .45	Exploded Diagram	217578		
62	Locking plate .45	Exploded Diagram	217579		
63	Floor plate	Exploded Diagram	217580		
59	Magazine housing .45	Exploded Diagram	217581		
43	Hammer spring, right	Exploded Diagram	217585		
31	Firing pin retaining pin	Exploded Diagram	217587		
48	Safety lever, left	Exploded Diagram	217753		
	Magazine, complete .40 S&W (59 - 63)	Exploded Diagram	217766		
	Magazine housing .40	Exploded Diagram	217767		
	Follower .40	Exploded Diagram	217769		
	Locking plate .40	Exploded Diagram	217770		
	Magazine spring .40	Exploded Diagram	217799		
	Sound suppressor, complete, .40 S&W	Exploded Diagram			Not shown
68	Sound suppressor, complete, .45 ACP	Exploded Diagram	217831		Not shown
4	Sight support	Exploded Diagram	217992		
69	Carrying sling, complete	Exploded Diagram	219085		
64	Picatinney rail, short	Exploded Diagram	219341		
19	Handstop, incomplete	Exploded Diagram	219342		
20	Insert plate, handstop	Exploded Diagram	219343		
66	Picatinney rail, long	Exploded Diagram	219346		
	Picatinney rail, short w/screws (64 - 65)	Exploded Diagram	219362		
	Picatinney rail, long complete (66 - 67)	Exploded Diagram	219363		
	Handstop, complete (19 - 21)	Exploded Diagram	219364		
18	Ejector	Exploded Diagram	219399		
22	Axle, buttstock	Exploded Diagram	219401		
*	Barrel, .40 S&W	Exploded Diagram	219402		
16	Barrel, .45 cal.	Exploded Diagram	219403		

UMP Parts list _ by ID #					
	Drawing # Exploded Diagram		**000 000**		**Figure #1**
Item	***Parts Description***	***Drawing #***	***Ident. #***	***NATO Stock #***	***Remarks***
70	Magazine loader	Exploded Diagram	219404		
65	Cylindrical screws (2x)	Exploded Diagram	219413		
67	Cylindrical screws (2x)	Exploded Diagram	219413		
21	Cylindrical screw, handstop (5 x 16 mm)	Exploded Diagram	219414		
*	Lower receiver 2RB		219632		Not shown
*	Lower receiver 012		219634		Not shown
*	Lower receiver SF		219636		Not shown
55	Roll pin, bolt catch	Exploded Diagram	928080		
3	Roll pin, front sight 4 x 144 mm	Exploded Diagram	928747		
15	Roll pin, cocking lever support	Exploded Diagram	986546		
11	Roll pin, sight support	Exploded Diagram	987695		
17	Roll pin, barrel (6 x 32 mm)	Exploded Diagram	988425		
	UMP lower receivers				