



**G36 E / G36K E Rifles
MG36 E Machine Gun**

5.56 mm x 45 NATO



HECKLER & KOCH, INC.

2148 Pacific Boulevard
Sterling, Virginia 20166-8903 U.S.A.
TEL. (703) 450-1900
TELEFAX (703) 450-8160
TELEX 7109550846

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MG36 E Machine Gun
5.56 m x 45 NATO**



Instruction Manual



**Heckler & Koch, Inc.
U.S.A.**

**WARNING: READ ALL INSTRUCTIONS BEFORE
HANDLING & USING THIS FIREARM.**

Safety Rules

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PLEASE READ THIS BEFORE HANDLING YOUR FIREARM.

The following safety rules are placed in this manual by Heckler & Koch, Inc. as an important reminder that firearms safety is your responsibility. Firearms can be dangerous and can potentially cause serious injury, damage to property or death, if handled improperly

1. Never point a firearm at anyone, or in any direction other than a safe one, i.e., downrange
2. Always treat all firearms as if they were loaded.
3. Keep your finger off the trigger until your sights are on the target.
4. Keep your finger off the trigger while loading or unloading the pistol.
5. Keep your finger off the trigger while pulling pistol out of the holster or holstering.
6. Be sure of your target and the back stop beyond.
7. Never give to or take a firearm from anyone unless the action is open.
8. Be sure that the ammunition you are using is factory loaded and is not damaged in anyway.
9. Before firing, remove the magazine from the weapon, lock the bolt to the rear and check the barrel of your unloaded firearm for any possible obstructions.
10. Before firing any firearm unfamiliar to you, make sure that you understand how it functions. Unfamiliarity can cause serious accidents. Attend a certified training course on any firearm which you intend to use or with which you are not sufficiently familiar.
11. Wear hearing protection and eye protection when shooting your firearm.
12. Keep your hands and fingers away from the muzzle to avoid injury or burns.
13. Firearms and ammunition should be stored separately beyond the reach of children and untrained or irresponsible adults.
14. Avoid the use of alcoholic beverages before and during any shooting.

REMEMBER: A FIREARM HAS THE CAPABILITY OF TAKING YOUR LIFE OR THE LIFE OF SOMEONE ELSE! BE CAREFUL WITH YOUR FIREARM – AN ACCIDENT IS ALMOST ALWAYS THE RESULTS OF NOT FOLLOWING BASIC SAFETY RULES.

firing attachment	Excessive gas passage	Decrease gas passage
No weapon function during firing with blank cartridges (only hissing sound to be heard)	Moisture in barrel bore. Unburned powder in barrel Note: May happen after prolonged exposure of weapon to atmospheric effects at minus temperatures	Immediately cease firing with this weapon. Clean barrel and blank firing attachment Not: Functioning cannot be improved by turning the nozzle bolt
Cartridge case ejected too far when firing blank cartridges	Nozzle bolt on blank firing attachment set for insufficient gas passage	Set nozzle bolt on blank firing attachment for higher gas passage Note: Optimum setting only possible after some shots

Technical data

	G36 E	G36K E	MG36 E
Operating principle	Gas operated weapon with rotating bolt head		
Dimensions			
Caliber	5.56 mm x 45		
Total length, butt stock unfolded	998 mm	858 mm	998 mm
Total length, butt stock folded	758 mm	613 mm	758 mm
Barrel length	480 mm	320 mm	480 mm
Twist length	178 mm (right-hand)		
Total height w/ carrying sling and magazine	285 mm	285 mm	285 mm (250 mm w/ drum)
Width	64 mm	64 mm	64 mm
Weights			
Weapon, w/o magazine & bipod	3.3 kg	3.0 kg	3.45 kg
Box-type magazine, empty	0.13 kg		
Box-type magazine w/ 30 rounds	0.49 kg		
Drum magazine, empty	--	--	0.90 kg
Drum magazine w/ 100 rounds	--	--	2.10 kg
Bipod	--	--	0.21 kg
Carrying sling	0.12 kg		
Bayonet with scabbard	0.45 kg		
Other data			
Optical sight	Magnification 1.5 x		
Trigger pull	Approx. 40 N		
Rate of fire (burst)	Approx. 750 rds/min.		
Muzzle velocity –vo- approx.	920 m/s	850 m/s	920 m/s
Muzzle energy –Eo- approx.	1700 Joule	1450 Joule	1700 Joule

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+++WARNING+++ Before handling the weapon, read and mind the safety instructions!

OPERATOR'S MANUAL

**G36 E/G36K E Rifles
MG36 E Machine Gun**

5.56mm x 45 NATO

+++SAFETY NOTES FOR THE HANDLING OF WEAPONS+++

These safety notes are valid in addition to the service regulations

- When handling weapons special caution is necessary as position and direction of the weapons can be changed easily.
- Carefully read this operations manual before handling the weapon. Only use the weapons if you have understood the manual.
- Observe all notes regarding handling and operation. Disregarding can cause danger to life and limb.
- Do not handle the weapon in case you have consumed alcohol, drugs or medications, or if you feel physically unwell.
- When giving or taking the weapon the slide must always be open.
- Before handling, in case of troubles and before cleaning it has to be checked whether:
 - the weapon is unloaded (cartridge chamber free),
 - the barrel is free of obstructions and
 - the magazine is empty.
- Always treat the weapon as if it is loaded and ready to fire.
- Keep your finger off the trigger while loading, unloading, drawing or otherwise handling the weapon.
- Always place the trigger finger against the trigger guard.

	Cartridge damaged Recoil spring lame Incomplete cocking movement	Recock manually Turn in G36 E for repair Release cocking lever, let it snap forward without holding on to it
Cartridge case not extracted or ejected	Cartridge chamber dirty Ejector or ejector spring broken Ejector or ejector spring damaged Insufficient bolt recoil	Clean cartridge chamber Turn in G36 E for repair Turn in G36 E for repair Unload: Use cocking lever to retract bolt. Remove cartridge case. Check for smooth running and check cartridge chamber for fouling. If required, clean cartridge chamber.
No cartridge fed by bolt	Magazine not properly inserted Magazine loose Follower spring lame Magazine lips damaged Magazine well damaged	Insert magazine properly Check magazine catch and lugs. If required, turn in for repair. Replace magazine, turn in defective one for repair. Replace magazine, turn in defective one for repair. Turn in magazine well for repair
Bolt does not stay open after last shot	Follower spring lame	Replace magazine, turn in defective one for repair.
G36 E trigger cannot be pulled with hammer cocked	Sear broken or compression spring lame	Turn in G36 E for repair
G36 E fires with markedly increased rate of fire	Tenon or gas piston broken	Turn in G36 E for repair
Magazine stuck in magazine well	Magazine damaged Magazine catch defective	Replace magazine and turn in defective one for repair Turn in G36 E for repair
No weapon function during firing with blank	Blank firing attachment cannot be fully screwed on	Turn in G36 E for repair

Stoppages and breakdowns

Their causes and eliminations

In the event of stoppages on the G36 E, the weapon is to be considered as loaded until the actual cause of the stoppage has been determined.

During the elimination of stoppages, safety precautions are to be taken into account.

In the event of stoppages on the G36 E, for example, the cartridge fired from the G36 E is not ignited, the bolt assembly does not close completely, or the spent cartridge case is not ejected, the following immediate steps have to be taken:

- Put the G36 E on "Safe"
- Remove the magazine
- Unload the G36 E
- Ensure that barrel, cartridge chamber and receiver are free of obstacles.
- Next, determine and eliminate the cause of the stoppage.

The items indicated in the following do not cover all stoppages theoretically possible.

A given stoppage may also have been caused by other reasons than the ones indicated.

Stoppage, Fault	Cause	Remedy
Cartridge is not ignited	Ammunition fault (Dud round)	Recock weapon
	Tip of firing pin damaged or broken	Turn in G36 E for repair
	Hammer spring damaged or broken	Turn in G36 E for repair
Bolt has not opened after the shot	Cartridge case stuck in chamber due to deformation or dirty chamber	Unload: Retract bolt to eject cartridge case, clean, if fouled. If required, turn in G36 E for repair.
	Gas drive unit fouled or defective	Clean gas piston. If required, turn in G36 E for repair.
Bolt not closed completely Cartridge not fully fed	Cartridge chamber dirty	Clean cartridge chamber
	Barrel extension dirty	Clean barrel extension

- The trigger may only be pulled if your sights are aligned on the target.
- Never use force when handling, disassembling, cleaning and assembling the weapon.
- Always wear eye protection when using the weapon. When firing, your eyes are endangered by ejected cartridge cases or cartridge cases bounced off walls.
- Always wear hearing protection when using the weapon.
- Only use factory loaded and undamaged cartridges of the correct caliber.
- Mind that during firing the weapon's slide moves back with high velocity. Hold the weapon in such a way that your hands are away from the rearward moving slide, in order to avoid injuries.
- Do not grasp over the muzzle and mind that the muzzle area is free when firing.
- Store the weapon separately from ammunition and beyond the reach of unauthorized persons.
- The proven G36 E design ensures maximum possible safety for the shooter.
- Heckler & Koch does not assume any liability for events due to disregarding this manual, wrong handling, negligence, improper treatment, unauthorized part exchange and other manipulations in, with or at the weapon.
- This operator's manual is included in the scope of supply of the weapon and always has to be passed on along with the weapon.

GENERAL

The G36 E Rifle is a gas operated weapon with a rotating bolt head. Its receiver, pistol grip, folding buttstock and handguard are made of high-strength plastic material. This results in a very lightweight weapon.

Ammunition is fed from box-type magazines with a capacity of 30 cartridges. Several magazines may be coupled.

The optical sight is integrated into the carrying handle. The carrying handle fits into the dovetail guideway on top of the receiver and is fixed there by means of screws.

For cleaning and maintenance it is easy to disassemble the rifle into its main assembly groups without the use of tools

The G36K E is the short version of the G36 E Rifle, with shortened barrel and shortened handguard.

The MG36 E Light Machine Gun is identical to the G36 E Rifle, with the exception of the barrel which is laid out for heavy duty fire and which is thicker at its rear section.

The MG36 E is provided with a bipod and in addition to the 30 round magazines there are also 100 round drum-type magazines available.



Fig.1: G36 E Rifle with carrying handle, left side view.

Firing of rifle grenades

The G36 E rifle may fire rifle grenades using propellant cartridges or ball ammunition. Regarding the selection of propellant charges, the specifications of the grenade are to be taken into account.

For firing, the rifle grenade is to be slid onto the rifle grenade guide over the flash hider.

Rifle grenades may be fired from the G36 E in the following positions only:

- A) Off the shoulder with the shooter standing or kneeling. In this way, the shooter can aim and fire a precise shot. See Fig. 55/56.
- b) From the hip. In this way, the shooter can only fire an unaimed and thus inaccurate shot.

The rifle grenades may not exceed an overall weight of 360 g.



Fig 55



Fig. 56



Fig. 52

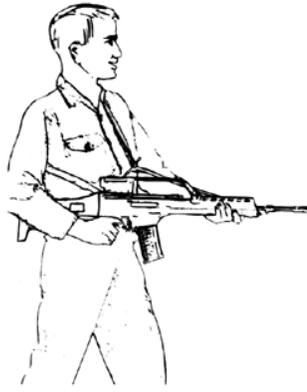


Fig. 53



Fig. 54



Fig. 2: G36 E Rifle with carrying handle, right side view.



Fig. 3: G36K E Rifle with carrying handle, left side view.



Fig. 4: G36K E Rifle, butt stock folded, right side view.



Fig. 5: MG36 E with drum-type magazine, bipod and carrying sling, left side view



Fig. 6: MG36 E with coupled magazines and bipod, left side view.

Handling of the carrying sling

Lock the carrying sling (Fig. 48) with its front snap hook to the eyebolt of the handguard and with its rear snap hook to the eyelet of the receiver.

Length adjustment of the carrying sling

The sling lock has to be closed.

- Rest the carrying sling between thumb and index finger and let the weapon hang down in a vertical position (Fig. 49).
- Adjust the length of the sling in such a way that your elbow just fits between the rifle and the sling.

Carrying modes

Sling over the shoulder (Fig. 50)

Weapon on the back (Fig. 51)

Weapon across the chest (Fig. 52)

Firing positions

Firing from the hip (Fig. 53)

Firing from the shoulder (Fig 54)



Fig. 48: Carrying sling

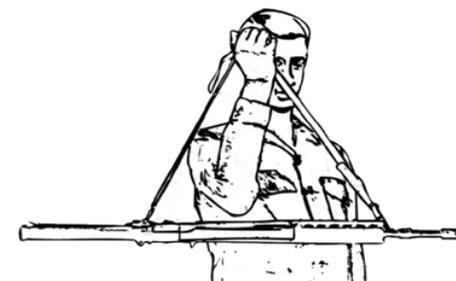


Fig. 49: Length adjustment



Fig. 50

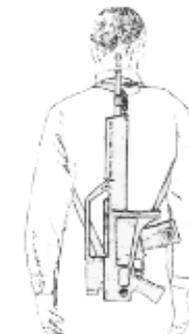


Fig. 51

Optical sight reticle

The reticle of the optical sight is provided with range marks from 200 m to 800 m in increments of 200 m.

The outer lateral surfaces of the circular reticle simultaneously serve as lead marks when aiming at laterally moving targets, moving at approx. 15 km/h speed at a range of 200 m.

The interior diameter of the circular reticle corresponds to the height of a man (1.75) m at 400 m range.

The range marks at the bottom let which help to find and set the range at 200, 400, and 800 m are also based on a man size of 1.75 m.

In the same manner the heights of the crossmarks at 600m and 800 m correspond to the size of a man of 1.75 m height standing at the respective range.

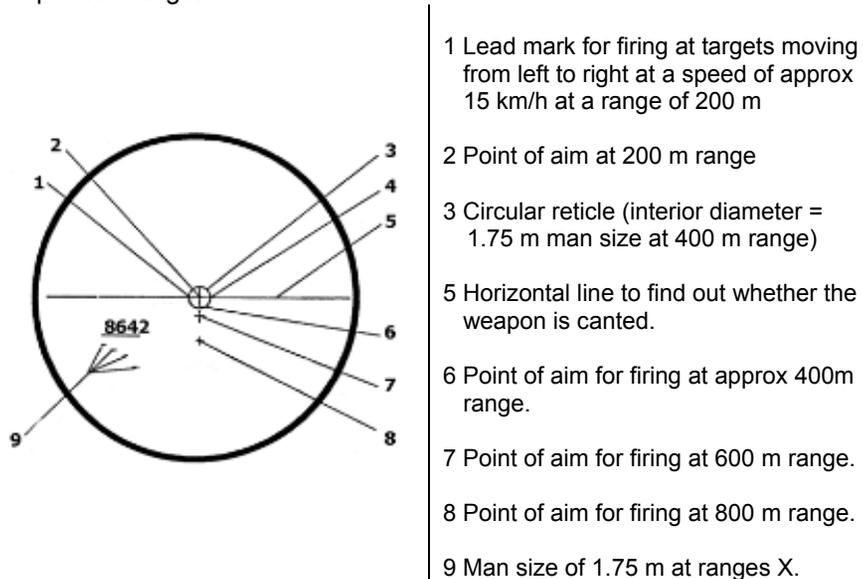


Fig. 47: Reticle of the optical sight

ASSEMBLY GROUPS

1. Receiver with barrel, folding buttstock, magazine well, attaching parts and carrying sling
2. Bolt assembly
3. Backplate and recoil spring
4. Pistol grip with trigger mechanism
5. Handguard
6. Magazine

Accessories (Pages 17 to 22)

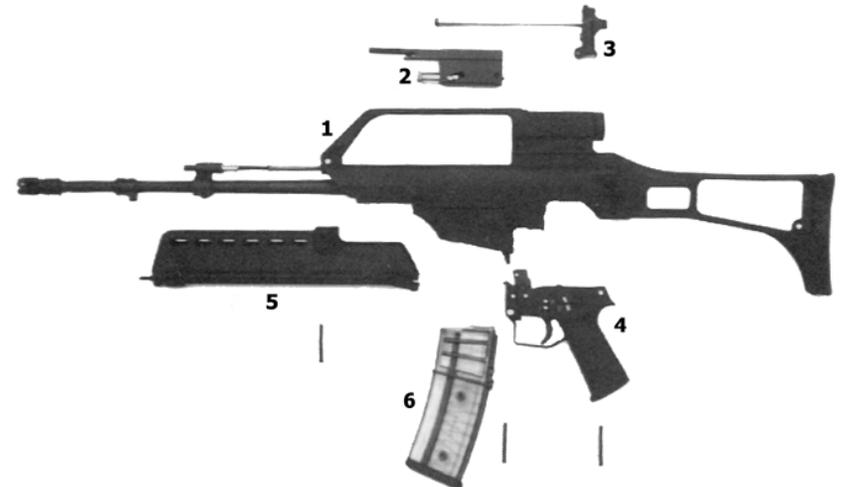


Fig. 7: Assembly groups

DESCRIPTION OF THE ASSEMBLY GROUPS

Group 1 Receiver with barrel, buttstock and attaching parts

The receiver is made of high-strength fiber-reinforced plastics. It houses all the other assembly groups. Inside the receiver there are guideways for the bolt as well as contact surfaces for the pistol grip, the backplate and the magazine well.

The barrel is fastened and centered to the receiver by means of a nut.

The flash hider is screwed onto the muzzle. Behind the flash hider there is the bayonet mount with rifle grenade guide which is fastened by means of a cross pin. The gas block behind the bayonet mount is also fastened by means of a cross pin.

The carrying handle integrates the optical sight and a mechanical emergency sight. The carrying handle is mounted onto the guideway on top of the receiver and fastened there by means of three screws.

On the right side of the receiver there is the ejection port with the cartridge case deflector. The cartridge case deflector directs the ejected cases and also serves as a catch for the folded buttstock.

Handguard, magazine well and pistol grip are fitted to the bottom of the receiver by means of locking pins.

At the rear of the receiver there is the hinge for the folding buttstock.

Adjustment of the optical sight

If a sight adjustment becomes necessary, this may be done by vertically or horizontally adjusting the optical sight.

Height adjustment:

- If the weapon's point of impact is too high, turn the upper adjusting screw counter-clockwise in the "T" direction.
- If the weapon's point of impact is too low, turn the upper adjusting screw clockwise in the "H" direction.

Side adjustment:

- If the weapon's point of impact is too far to the right, turn the lateral adjusting screw counter-clockwise in the "L" direction.
- If the weapon's point of impact is too far to the left, turn the lateral adjusting screw clockwise in the "H" direction.

Note:

One graduation changes the point of impact by approx. 2.3 cm at a range of 100 m.



Fig. 46: Adjusting screws

Assembly of the weapon

- Slide the handguard from the front over the barrel and the receiver.
- Fasten the handguard with the locking pin.
- Place the front of the magazine well onto the bearing studs, swivel the rear of the magazine well upward all the way until it engages.
- Fold the buttstock.
- Insert the bolt assembly from the rear into the receiver.
- Insert the backplate with the recoil spring into the receiver so that the lug on the backplate engages into the bore of the receiver.
- Unfold the buttstock.
- Place the pistol grip from bottom to the receiver (hammer in the uncocked position) and insert the two locking pins.
- Set the weapon at "safe"
- Check operations (cocking, check bolt catch function, unset the safety, pull the trigger, set the weapon again at safe).
- Insert the magazine.



Fig. 45: G36 E disassembled into assembly groups.

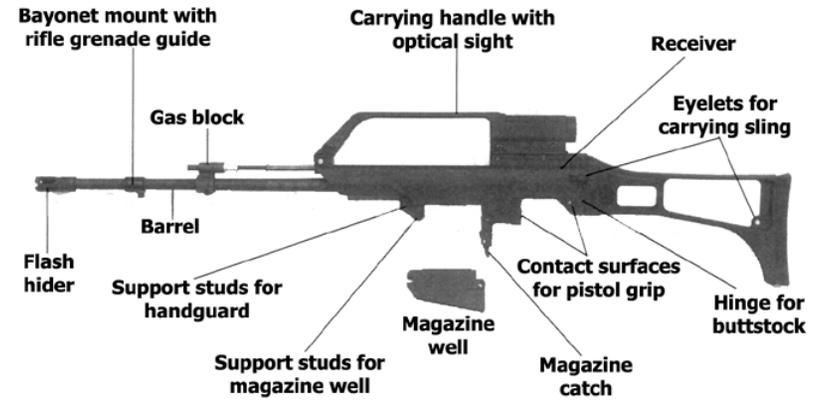


Fig. 8: Receiver with barrel, buttstock and attaching parts.

Gas Block

The gas block is fastened with a cross pin to the barrel. After the bullet has passed the gas bent hole in the barrel, a portion of the propellant gases is guided into the gas block cylinder and act upon the gas piston.

The gas piston drives the bolt assembly via the push rod to the rear. The return spring on the push rod returns the rod to its starting position.

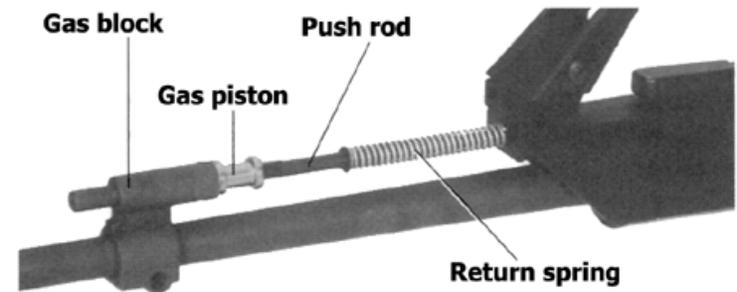


Fig.9: Gas operation assembly

Buttstock

A pin passing through the buttstock hinge fastens the buttstock to the receiver. Pressing the push button on the left of the buttstock unlocks

the buttstock which can then be folded to the right all the way where it clips into the deflector stud at the ejection port. With the buttstock folded, the weapon 240 mm shorter. Firing and case ejection are not disturbed when the buttstock is folded, as cases are ejected through the buttstock. For extending the buttstock, it is lifted off its clipped position and unfolded.

A rubber pad at the rear of the buttstock provides a soft and non-skid shoulder rest. At the front of the buttstock frame there are holes for holding the locking pins which have been removed during disassembly. Another eyelet for the carrying sling is provided at the rear of the buttstock.

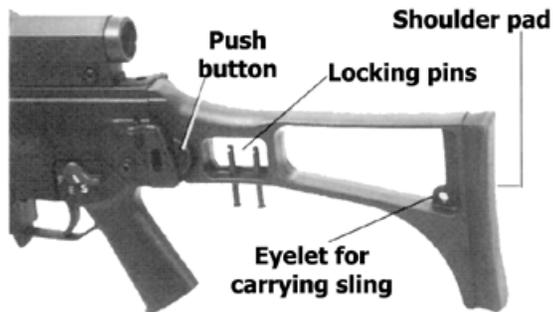


Fig. 10: Buttstock

Magazine well

The front of the magazine well engages into two support studs on the receiver. For fastening the magazine well is swiveled upward. A locking pin fastens both the pistol grip and the magazine well to the receiver. When the locking pin is removed the magazine well is retained by the magazine catch.

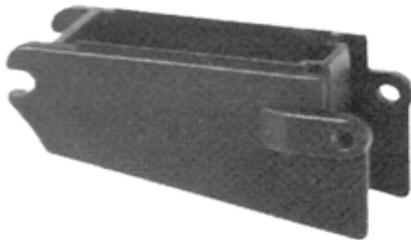


Fig.11: Magazine well

Disassembly of the magazine

- Press the bottom of the right sidewall inward until the front catch is disengaged.
- Push the magazine floor plate to the rear.
- Press the bottom of the right sidewall inward until the rear catch is disengaged.
- Remove the floor plate to the rear.

ATTENTION: The magazine spring is under pressure!

- Remove the magazine spring and the follower to the bottom.

Assembly of the magazine

- Insert the follower and the magazine spring from the bottom onto the magazine housing.
- Slide the magazine floor plate from the rear onto the magazine housing.
- Push the magazine floor plate all the way over the two catch onto the magazine housing.

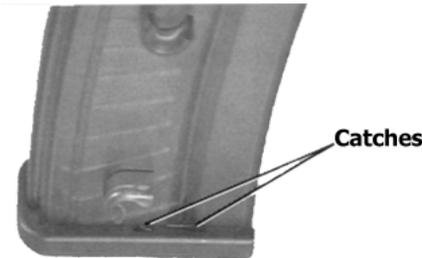


Fig. 42: Press in the sidewall

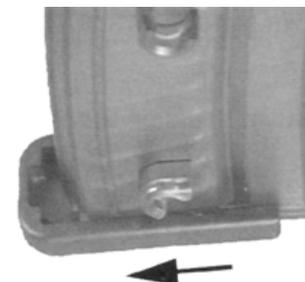


Fig. 43: Remove the magazine floor plate

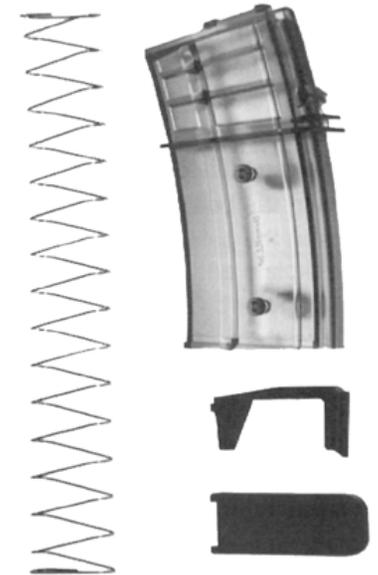


Fig. 44: Magazine, disassembled

Disassembly of the bolt

- Push the cross pin to the left (e.g. with gas piston) and detach.
- Remove the firing pin to the rear.
- Take out the control bolt to the left.
- Detach the bolt head to the front.

Assembly of the bolt

- Slide the bolt head with the extractor pointing to the right from the front into the bolt head carrier.
- Insert the control bolt from the left into the bolt head carrier and the bolt head; mind that the flat surfaces on the control bolt are parallel to the firing direction.
- Introduce the firing pin from the rear into the bolt head carrier and the bolt head.
- Insert the cross pin from the left side into the bolt head carrier.

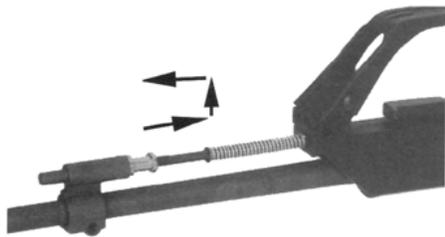


Fig. 39: Remove the push rod

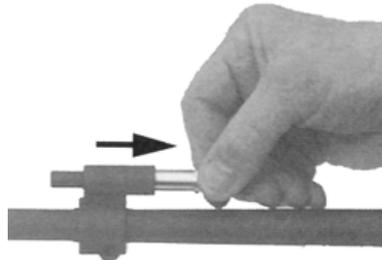


Fig. 40: Take out the gas piston

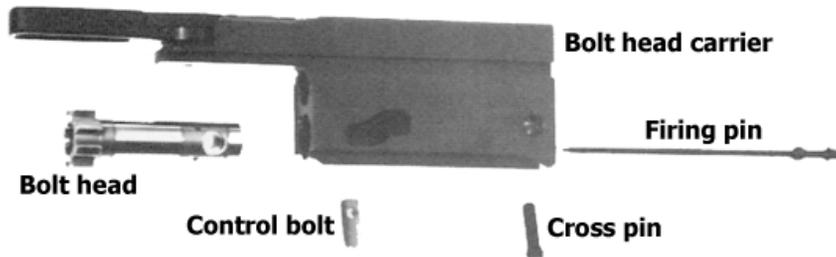


Fig. 41: Bolt, disassembled

Group 2 Bolt assembly

The bolt assembly with the rotary bolt head is guided in the receiver. The bolt assembly is driven by the gas piston and the recoil spring and serves for feeding of the cartridges, locking of the chamber, cartridge ignition, case extraction and ejection as well as for cocking of the hammer.

The bolt head is retained in the bolt head carrier by the control bolt which also controls its rotary movement

At its front the bolt head is provided with locking lugs. The spring-loaded extractor is located in a gap between the locking lugs. Adjacent to the extractor there is the spring-loaded ejector.

The firing pin is retained by the cross pin.

A cocking lever on the front end of the bolt head carrier can be swiveled to the left and to the right for actuation by both left and right handed firers.



Fig. 12: Bolt assembly

Group 3 Backplate with recoil spring

The backplate with recoil spring closes the receiver to the rear. The backplate is retained in the receiver by a lug and a locking pin which also holds the pistol grip.

The recoil spring guide rod with the recoil spring is rigidly locked to the backplate. Rearward movement of the bolt assembly is stopped by a buffer. A knob at the rear of the backplate simplifies its assembly.

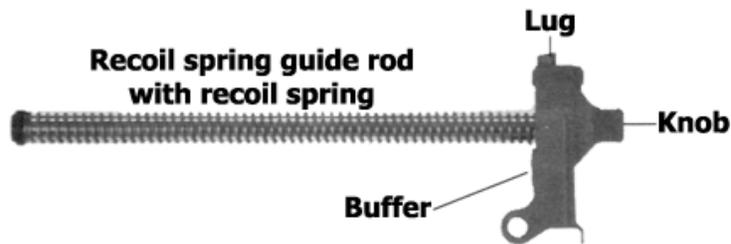


Fig. 13: Backplate with recoil spring.

Stripping into assembly groups

- Unhook the carrying sling at both ends.
- Unfold the buttstock.
- Detach both locking pins on the grip and insert them into the support holes on the butt stock.
- Remove the grip downward.
- Fold the buttstock.
- Remove the backplate and the recoil spring to the rear. (Fig. 37)
- Pull the cocking lever to the rear and detach the bolt (Fig. 38)
- Pull out the locking pin at the handguard and detach the handguard to the front.
- Push the magazine catch, swivel the magazine well to the bottom and detach.

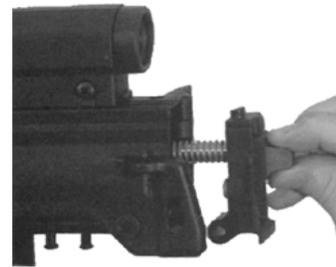


Fig. 37: Remove backplate

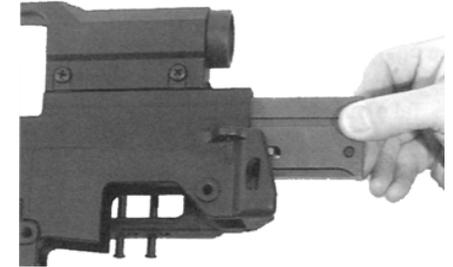


Fig. 38: Remove bolt assembly

Disassembly of the push rod and the gas piston

- Push the push rod against spring pressure to the rear and remove it from the gas piston.
- Swivel the push rod aside and detach it to the front.
- Remove the gas piston to the rear.

Assembly of the push rod and the gas piston

- Insert the gas piston into the gas block.
- Introduce the push rod into the front part of the receiver, push it against the spring pressure into the receiver and let it slide into the gas piston.



Fig. 36: Push on cocking lever (forward assist)

Disassembly of the weapon

NOTE!

The weapon is disassembled and reassembled without tools. Do not use any force. The user of the weapon is not allowed to disassemble the beyond the scope of this description. Such disassembly may only be carried out by qualified maintenance personnel.

Checking the loading condition

- Set the weapon at "Safe"
- Remove the magazine.
- Unload; swivel out the cocking lever and pull it back.
- Check whether the chamber is clear and let the bolt snap forward.

Group 4 Pistol grip with trigger mechanism

The pistol grip contains the trigger mechanism and the bolt catch. The grip is fastened to the receiver by means of two locking pins.

At the front of the trigger guard there is the bolt catch slide which is used for holding the bolt open in case there is no empty magazine inserted.

There are safety/fire selector levers on both sides of the grip.

The safety/fire selector levers can be placed in 3 positions:

"S" = Safe (horizontal safety/fire selector lever)

"E" = Single fire (lever swiveled half way downward)

"F" = Burst fire (lever swiveled vertically downward)

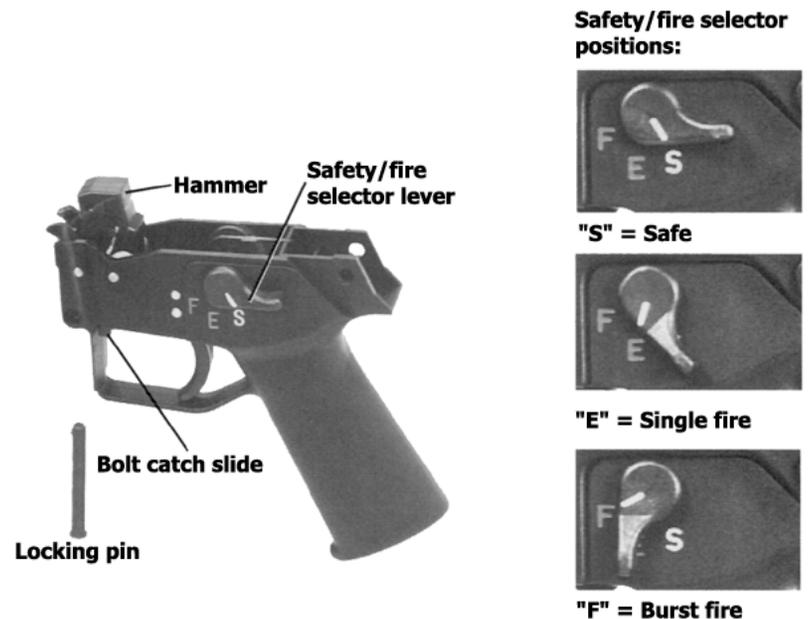


Fig. 14: Pistol grip with trigger mechanism

Group 5 Handguard

The detachable handguard encloses the barrel and the gas block assembly.

The handguard is positioned at the receiver by means of two support studs and is fastened there by means of a locking pin.

The eyebolt is located at the front end of the handguard. With the MG36 E it also serves as bipod axle.

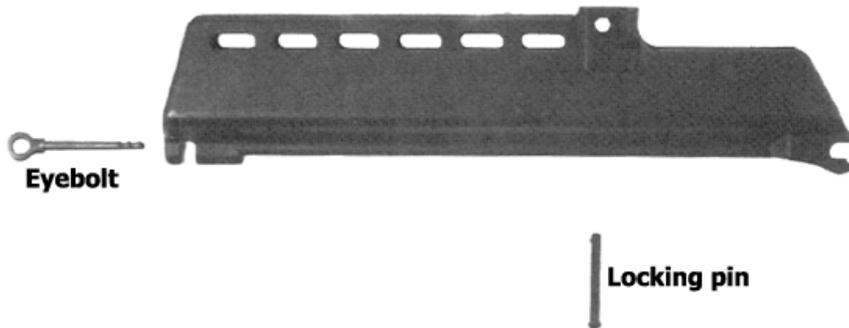


Fig. 15: Handguard



Fig. 35: Detach magazine

Forward assist

If the exterior of the weapon is heavily fouled (sand, mud etc.) the cocking lever can also be used as a forward assist.

For this purpose

- Swivel out the cocking lever and push it against the bolt head carrier (the cocking lever remains in its swiveled position)]
- Push the bolt head carrier with the cocking lever to the front until it fully locks
- Pull the cocking lever outside and let it swivel to its initial position (in alignment with the bolt head carrier.)

Low-noise loading using the forward assist

- After the magazine has been inserted, swivel out the cocking lever and push it all the way onto the bolt head carrier until it engages (Fig. 36)
- Pull the cocking lever slightly to the rear and guide it forward.
- Push the cocking lever forward until the bolt locks.
- Pull the cocking lever outward and let it swivel to its initial position (Firing direction)

The weapon is now loaded and set at safe.

Loading the weapon

Situation 1:

- No magazine is in the weapon
- The bolt is in its forward (locked) position

- Set the safety/fire selector lever at “safe”
- Swivel the cocking lever to the left or to the right, pull it all the way to the rear (Fig.33) and hold it.
- Push the bolt catch upward. (Fig.34)
- Insert a loaded magazine into the magazine well until the magazine catch clearly engages.
- Swivel the cocking lever out, pull it all the way to the rear and release.

The weapon is now loaded and set at safe.

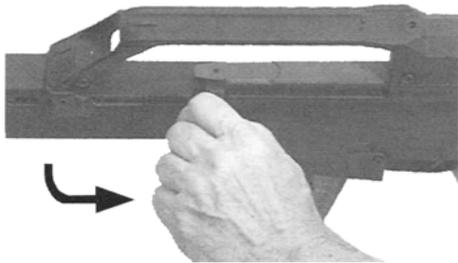


Fig. 33: Swivel out and pull back cocking lever

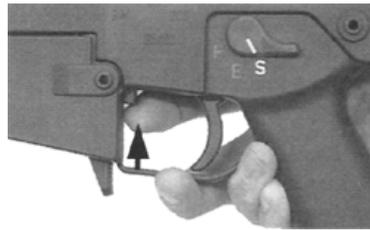


Fig. 34: Push bolt catch upward

Situation 2:

- The magazine in the weapon is empty
- The bolt has been caught in its rear position

- Set the safety/fire selector lever at safe!
- Actuate the magazine catch and detach the empty magazine (Fig.35)
- Insert a loaded magazine into the magazine well until the magazine clearly engages.
- Swivel the cocking lever out, pull it all the way to the rear and release.

The weapon is now loaded and set at safe.

Group 6 Magazine

The curved box-type magazine holds maximum 30 rounds.

The magazine housing consists of impact-resistant transparent plastic which permits to visually check the loading condition of the magazine from outside.

The top of the right side of the magazine housing shows a cartridge symbol and the number “30”. This is to indicate that a maximum of 30 rounds may be loaded into the magazine and that the uppermost cartridge of a full magazine must be on the right side.

The right sidewalls of the magazine are provided with two female couplings where as the left sidewalls are provided with two corresponding male coupling studs. These couplings permit the attachment of several magazines to each other.

The magazine consists of:

- Magazine housing
- Magazine floor plate
- Follower
- Follower spring

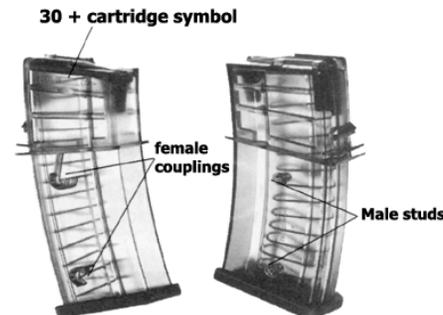


Fig. 16: Magazine, complete

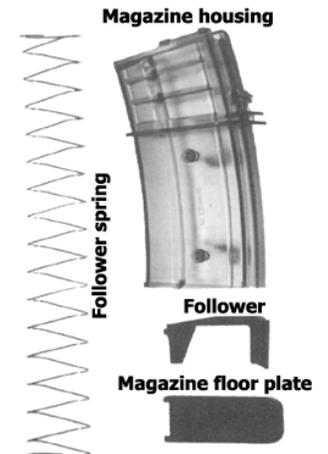


Fig. 17: Magazine, disassembled

Accessories

Carrying sling

The carrying sling permits different carrying modes by the firer and enables the firer to have the weapon immediately ready to use in all carrying modes. (See pages 54-57)



Fig. 18: Carrying sling

Bayonet

The bayonet is slid from the front over the flash hider and locks in the bayonet holder.



Fig. 19: Bayonet, mounted

The locking lugs disengage. The bolt head disengages (unlocks) from the barrel extension. Bolt head carrier and bolt head move to the rear.

The extractor in the bolt head extracts the cartridge case from the chamber. When the bolt assembly passes the ejection port, the spring-loaded ejector ejects the cartridge case to the right.

The rearward movement of the bolt assembly compresses the recoil spring and cocks the hammer.

Driven by the recoil spring the bolt assembly moves forward and pushes the uppermost cartridge out of the magazine into the chamber.

The bolt head contacts and stops at the rear face of the barrel and the bolt head carrier continues its forward movement which rotates the bolt head via the control bolt and the control cam into the locked position.

The firing pin tip can only protrude the bolt face and hit the primer when the bolt is fully locked.

The weapon is now ready to fire again.

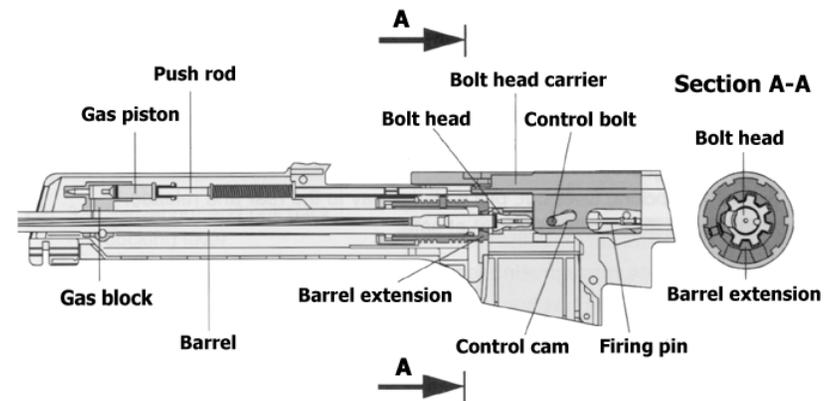


Fig. 32: Bolt, unlocked

Operation of parts

By means of a nut the barrel is tightly screwed to the barrel extension. The bolt head carrier houses the bolt head which can move along its longitudinal axis inside the bolt head carrier. Additionally to its longitudinal movement the bolt head can also pivot around its longitudinal axis.

In the locked condition the bolt head is in the foremost position. The bolt head in the bolt head carrier is turned in such a way that the locking lugs of the bolt head engage in the corresponding locking lugs of the barrel extension.

The weapon is now loaded and the safety/fire selector lever on fire.

Pulling the trigger releases the hammer which hits the firing pin. The cartridge is ignited.

The propellant gases accelerate the bullet. As soon as the bullet has passed the gas vent hole, a portion of the gases enters the gas block.

These gases push the bolt head carrier via the gas piston and the push rod to the rear. The control bolt and the control cam in the bolt head carrier rotate and unlock the bolt head.

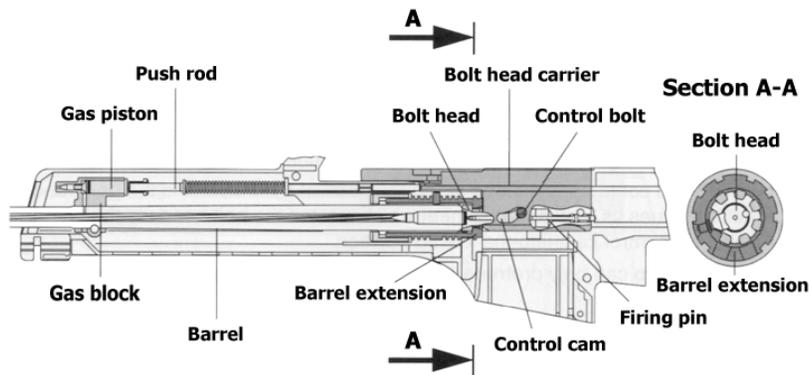


Fig. 31: Bolt, locked

Blank firing attachment with adjustable gas nozzle

The blank firing attachment is designed for firing blank cartridges. It is screwed onto the muzzle instead of the flash hider.

Attention: A separate special blank firing attachment has to be used for the G36K E Rifle. This attachment is additionally marked with a red colored ring.



Fig. 20: Blank firing attachment

Safety blank firing attachment

The safety blank firing attachment does not have an adjustable nozzle. A diffuser spiral prevents propellant particles leaving the blank firing attachment in forward direction. Blanks may thus be fired at extremely short ranges. The integrated bullet trap can intercept the bullet of a single ball cartridge fired by mistake. The blank firing attachment is to be screwed onto the muzzle tightly. The blank firing attachments for G36 E and G36K E are different and are marked correspondingly.

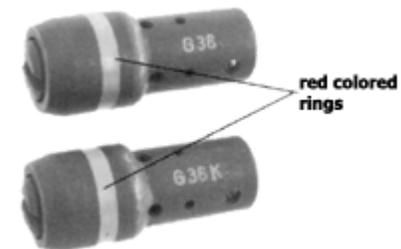


Fig. 21: Safety blank firing attachment

Magazine loader

The magazine loader facilitates loading of magazines, especially the loading of the 100 round drum-type magazine.



Fig. 22: Magazine loader

Night sighting unit

The night sighting unit is a specially developed residual light amplifier which can be latched onto the carrying handle. This passive night sighting unit reflects its image directly to the weapon's optics.

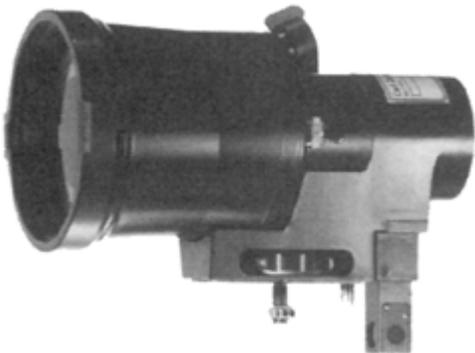


Fig. 23: Night sight

Loading by means of the magazine loader

- Place the magazine loader with its opening to the right side of the magazine on top of the magazine.
- Insert up to max. 5 rounds into the magazine loader.
- Push the loader slide all the way down.
- Lift the magazine loader slide all the way, repeat, until the magazine is fully loaded or until the desired number of rounds is inside the magazine.

Note:

Loading the drum magazines with the magazine loader is carried out in the same manner as loading the box-type magazines.

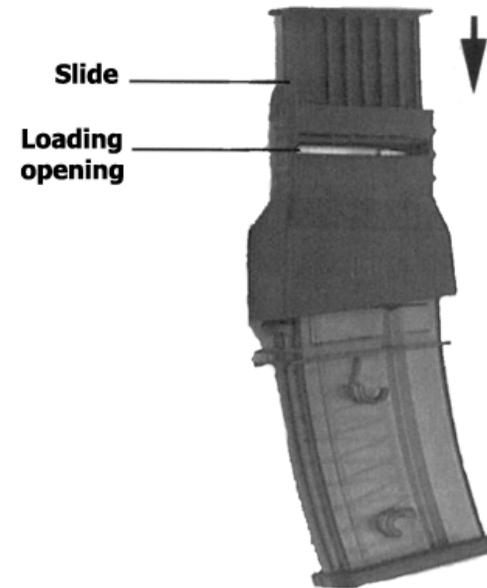


Fig. 30: Magazine loader

Handling and operation

Loading of the magazine

- Hold the magazine with one hand. Place the cartridges with the other hand between the magazine lips and push the cartridge with the thumb underneath the lips.
- Repeat this operation, until the magazine is fully loaded or until the desired number of rounds is inside the magazine.

Note:

A cartridge symbol and the figure 30 are visible on the right upper side of the magazine. This means that the magazine has a capacity for 30 rounds and that the uppermost round in a fully loaded magazine must be located on the right side.

Unloading the magazine

Hold the magazine with one hand. Push the cartridges out of the magazine with the thumb of the other hand, mind that the removed cartridges do not drop on a hard surface or get otherwise damaged.

Note:

Loading and unloading of the drum magazines is done in the same way as with the box-type magazines.



Fig. 29: Loading the magazine

Carrying handle with telescope sight and reflex sight

As an option a carrying handle with a 3 x telescope sight and a 1 x reflex sight may be mounted instead of the standard carrying handle with 1.5 x optical sight.

The reflex sight with its illuminated red dot reticle is designed for quick aimed shooting at ranges up to 200 m. The red dot reticle is provided by a daylight collector. The red dot brightness is automatically adjusted to the environmental light conditions. In case of insufficient external light intensity, a battery may be actuated for generating the luminous point.

The 3 x telescope underneath the reflex sight is used for accurate firing at longer ranges.

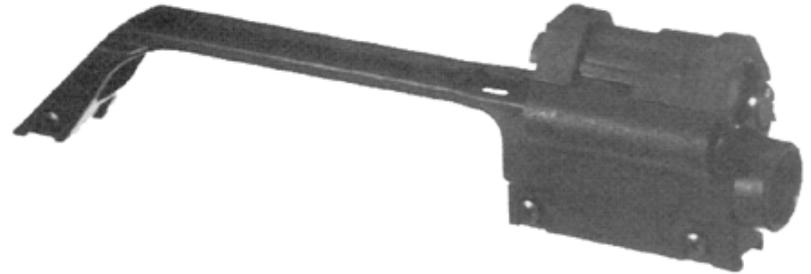


Fig. 24: Carrying handle with telescope sight and reflex sight

Telescopic sight

The telescopic sight is connected to the telescopic sight mount via two screws.

The telescopic sight mount meets the requirements of STANAG 2324. The telescopic sight is placed and screwed tightly onto the carrying handle.

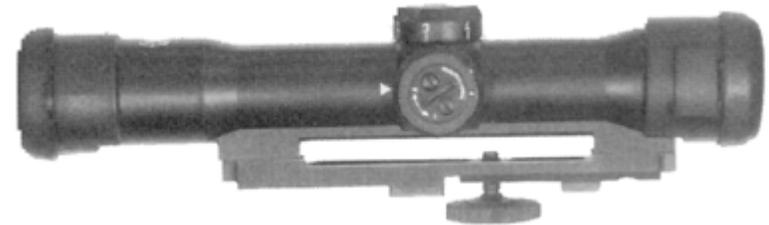


Fig. 25: Telescopic sight

Cleaning kit

The cleaning kit includes:

1. Case for cleaning kit
2. Cleaning cloth for optical sight
3. Oil bottle
4. Chamber cleaning brush
5. Barrel cleaning brush
6. Cleaning pad
7. Holder for cleaning pad
8. Extension rods
9. Cleaning rod
10. Cleaning brush

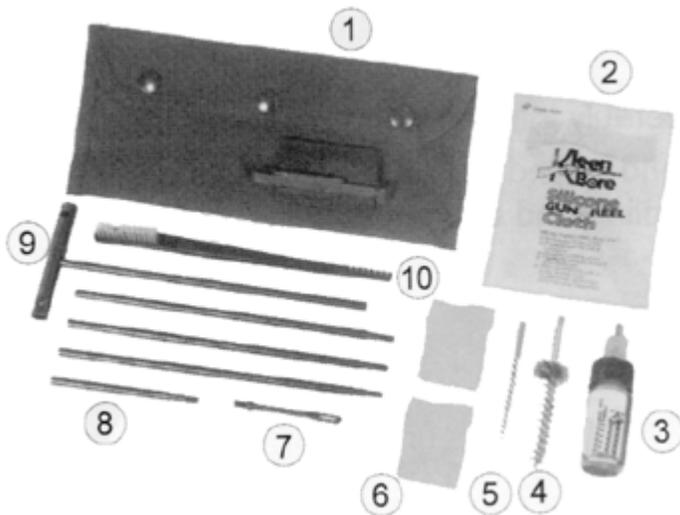


Fig. 26: Cleaning kit

Accessories for the MG 36 E

Bipod

The bipod is attached to the front of the handguard where the eyebolt serves as axle. The bipod legs may be folded to the rear, alongside the handguard.



Fig. 27: Bipod

100 round drum magazine

The 100 round drum magazine is inserted into the magazine guide in the same way as the box-type magazine.

The 100 round magazine capacity considerably increases the weapon's firepower.

The drum magazine may be loaded by hand, round per round or by using a magazine loader. (See pages 30-33, "Handling and operation, loading of the magazine.")

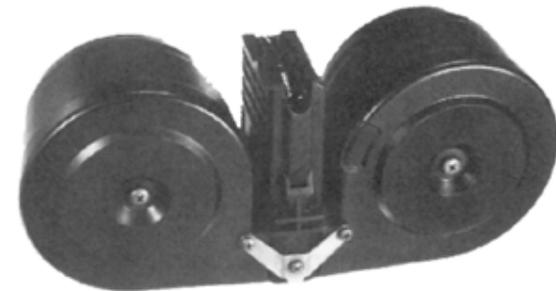


Fig. 28: 100 round drum magazine