HK 93 Semi-Automatic Rifle



Instruction Manual

П

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

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

Safety Rules

PLEASE READ THIS BEFORE HANDLING YOUR FIREARM.

The following safety rules are placed in this manual by Hockier & Koch, Inc. as an importareninder that, freems safety is your responsibility, Fineerss can be dangerous and or potentially cause serious injury, damage to properly or death, if handled improperly

Always treat all freams as if they were loads

3. Keep your finger off the trigger until your sights are on the target.

5. Keep your linger off the trigger while pulling pistol out of the holister or holistering

Never give to or take a fineam from anyone unites the action is open.
 Be sure that the amountion you are using is factory loaded and is not demaged in anyone.

 Before firing, remove the magazine from the sweapon, lock the boilt to the reer and check the barret of your unloaded frearm for any possible obstructions.

 Before firing any finance underniter to you, make sure that you understand how it functions. Understantly can cause serious accidents. Altered a certified training course on any

11. Wear hearing protection and eye protection when shooting your firearm.

nuely your names and engine away from the reacted to arous squay or ourre.
 Firearms and ammunition should be stored separately beyond the reach of children

untrained or inesponsible adults.

REMEMBER: A FIREARM HAS THE CAPABILITY OF TAKING YOUR LIFE OR OF SOMEONE ELSELBE CAREFUL WITH YOUR FREADM - AN ACCIDENT IS

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GENERAL

The HK 93 semi-automatic rifle, cal. .223 is a modern small arm produced in accordance with the most advanced manufacturing methods. It permits semi-automatic fire from all positions with the bolt

The HK 93 is a recoil operated rifle with stationary barrel and delayed roller locked bolt system. The cartridges are fed either from a 5-round or from a 25-round magazine.

Existing models:



Rifle with fixed butt stock (Fig. 1)



2. Rifle with telescopic sight (Fig. 2)



Hithe with retractable butt stock (Fig. 4 a.





ASSEMBLIES (Fig. 6)

- Receiver and barrel, cocking mechanism and sights
 Bolt assembly
- Grip assembly and trigger mechanism
- 4. Buttstock
- 6. Magazine 7. Accessories (page 9)



DESCRIPTION OF THE ASSEMBLIES

Assembly 1 Receiver and barrel, cocking mechanism and sights

The receiver connects barrel, cocking mechanism and sights. In addition, all assemblies are either contained in the receiver or attached

The barrel is press-fitted into the barrel extension and fixed in place by means of pirs. A flash hidde is screwed onto the mazzle. The cooking mechanism is located above the barrel and serves for cooking and loading the weapon and to secure the bott is in its rearmost needs.

The sights consist of the front sight and rotary rear sight. The rotary rear sight has 3 diopter holes and one open "V" sight and may be set for ranges of 200, 300, and 400 meters.

The rolary rear sight can be adjusted for elevation and windage.



Fig. 7 Receiver with barrel, cocking mechanism and sights







Assembly 2 Bolt assembly

The bolt assembly consists of:





Fig. 10 Recoil spring guide rod and recoil spring

Extractor with extractor spring



Fig. 14. Firing pin spring
Fig. 14. Firing pin spring
Fig. 14. Firing pin
The bolt assembly is housed and guided in the receiver. In conjunction
with the recoil spring the bolt feeds and fires the certridge and also

Assembly 3 Grip assembly and trigger mechanism

The grip assembly (Fig. 15) is hinged to the receiver, can be swung down and removed from it. It houses the trigger mechanism (Fig. 16) with hammer, ejector and the safety. The safety axis connects the





Fig. 15 Grip with trigger housing

Fig. 16 Trigger mechanism and safety





Assembly 4 Buttstock

Fixed buttstock (Fig. 17)

The back plate closes the receiver at the rear. It is connected to the receiver by a locking pin and houses the recoil spring, the buffer assembly and the buttstock. The sling holder is attached to the butt stock by two tubular rivets which serve to hold the butt plate and to store



Fig. 17 Fixed butt stock

Retractable butt stock (Eig. 18) When using the rifle as carbine, the fixed buttetock can be replaced by a

retractable one. The two quide rails on either side of the butt stock are guided in grooves on the receiver. They are arrested by a spring-loaded oripping lever in retracted and extended position. A support for fastening the sling is fitted to the back plate



Assembly 5 Handguard

The detachable handguard (Fig. 19) encircles the barrel from below, and The book on the handquard serves to receive the double loop when the combat sling is used.



Assembly 6 Magazine

The cartridges are fed either from a 5-round magazine (Fig. 20) or from a







magazine floor plate



ACCESSORIES

Standard carrying sling

The standard carrying sting (Fig. 23) is attached to the front of the rifle by snapping its carbine hook into the eye on the front sight holder; at the rear, its loop and spring hook are passed through a fitting in the



Fig. 23 Standard carrying sling

Combat sling

Combat sling
The combat sling (Fig. 24) serves to carry the rifle in different modes and enables its user to fire immediately from all firing position (see pages 46-49).



Telescopic sight

The telescopic sight (Fig. 25) is fixed to its mount by two screws. The receiver of the rifle is so designed that a telescopic sight can be attached to it without any special arrangements (see pages 50-52).



Bipod

Bipod

The bipod (Fig. 26) serves to support the front part of the rifle. It is fitted into the handguard guideway by pressing in the leaf spring. The bipod leas can be folded up against the rifle by operating the catch lever.



HANDLING AND OPERATION

Filling of magazine

One hand holds the magazine (Fig. 27), the other hand puts the cartridge

Emptying of magazine

on the magazine lip and presses it under the lip with the thumb.

One hand holds the magazine. The points of the cartridges point to the

or a cartridge, whereby the top cartridge falls out by itself. Note: For both operations a magazine filling and emptying device is also

available.



Fig. 27 Filling of magazine

SAFETY FEATURES

The safety lever is located on the left side of the orig assembly and can

"S" = Safe and "F" = Fire (Fig. 28 and 29).

The position selected is indicated also on the right side of the grip

How to put at safe Set safety lever at "S". The trigger cannot be squeezed. however, the rifle can be loaded while in "safe" position.

Firing Fire: Set safety lever at "F".











Inserting and removing of magazine

Put at "safe"!

Insert magazine into the magazine well (Fig. 30) until the magazine catch engages audibly.

To remove the magazine, cush the magazine catch on the right side of



Fig. 30 Inserting the magazine Fig. 31 Removing the magazine

B-4---

Pull cocking lever rearward with the left hand, engaging it in the recess of the cocking lever housing (Fig. 32). Insert the filled magazine into the magazine well so that the magazine ratch looks measuring widths into position.

Allow cocking lever to snap forward (Fig. 33).



Fig. 32 Retracting the cocking Fig. 33 Releasing the cocking lever

FUNCTIONING OF PARTS

The rife is loaded and the safety set on *F*.

By pulling the tigger, the harmer is released and strikes the firing pin which in burn ginnes the cutridge. The powder gases drive the build could the burn the same tight of the same that the same tight of the same ti

This guarantees that the bolt keeps the barrel locked until the builet has left the muzzle (Fig. 34)

Cavida Bot head Locking secs Fringsin



After the looking relies have been fully carmed into the bold head, the bold can continue its repoil movement. In the course of this movement, the empty carriedge case is ejected and the harmen recocked.

At the same time, the recot spring is compressed, which returns the bolt to its forward position. During the course of this process, a new round is chambered from the readaugine. The extractor engages in the extracting provise in the

carriage case.
As a result of the beveled surfaces of the locking piece, the locking rollers are cammed against the supporting surfaces in the barrel extension (Fig. 35). The



Fig. 35 Bolt in unlocked position

STRIPPING THE RIFLE FOR CLEANING

- > Engage the safetyl
- > Remove manazine > Unload chamber; retract cocking lever and make sure that the
- chamber is clear. Let cocking lever span forward Unhook carrying sling from front sight holder. Remove buttstock locking pin and put it in the tubular rivets in the
- Slide off buttstock and back plate (Fig. 35). Remove grip assembly. Retract bolt assembly by means of the cocking lever and remove it.
- Remove handquard.



Fig. 36 Removing the buttstock Fig. 37 Removing the bolt assembly

Stripping the bolt assembly > Remove recoil spring from recoil spring rod by edging it off, in the

- rearmost position. Remove the bolt head from the bolt assembly by turning it 90 degrees to the right. Turn locking piece until lug is clear and can be
- withdrawn from the bolt head carrier (Fig. 38). Remove firing nin with its enring (Ein. 30)

Researchling of bolt is done by reversion the disassembly properties lever holding a distance of about 5 mm to the bolt head carrier and turn to the left until the slide-surfaces of the bolt head and the bolt

Press recoil spring into recoil spring guide root

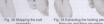


Safety requires that both locking rollers be in place in the bolt head when assembling the weapon

Stringing the grip assembly with trioner mechanism Set the safety lever to point vertically upwards, and then pull the

Remove the grip assembly. If the trigger housing is extremely

fouled, it can be washed out in a cleaning solvent.





- Attach handquard
- Insert the assembled bolt with recoil spring into the receiver flocking rollers must rest inside the bolt head.)
- Attach grip assembly. (Fig. 40) (Set safety laver on orin excembly at "C").
- > Slide fixed or retractable buttstock onto the receiver and insert Hook carrying sling into the eye on the front sight holder

> Check the proper reassembly of the rifle by performing several Gap between bolt head and bolt head carrier With the bolt in its closed position - the magazine being detached - the

bottom side of the bolt is visible through the magazine attachment unit. There must be a very narrow gap between the bolt head and the holt head carrier. If this gap has disappeared, we ask you to have the weapon checked with your local oun dealer as this technical condition

Eniture to function

On principle operate the cocking lever and continue fring. Should the rife fail to fire, put at safe, remove the manazine, unload the rifle and



Fig. 40 Reassembling the rifle



Fig. 41 Head space

ADJUSTING THE ROTARY REAR SIGHT

Any corrections which may be necessary when sighting-in, are only performed by adjusting the rear sight for elevation or windage.

Insert elevation adjustment tool into the rear sight cylinder (Fig. 42) so that the wedges of the tool engage in the two solines in the cylinder which contain the catch bolts. Press Phillips-head screwdriver downward into the adjustment tool and hold fast. Turn rear sight extinctor manually in the desired direction (turning clockwise lowers, turning counter-clockwise raises the point of

After performing the elevation adjustment, set rear sight cylinder at



Windage adjustment

Point of impact left: Loosen clamping screw (Fig. 43) on top of sight base. Turn adjusting screw (Fig. 44) counter-clockwise according to requirement. Then retighten clamping screw. > Point of impact right: Loosen clamping screw (Fig. 43) on top of

sight base. Turn adjusting screw (Fig. 44) clockwise according to requirement. Then retighten clamping screw.

Note: Each revolution of the adjusting scene moves the mean point of impact 6.14 in. (15.6 cm) to either side at a range of 100 meters (109 yds.).



Fig. 44 Turning the adjusting screw

LISING THE COMBAT SLING

The combat sling is attached to the front of the rifle by fixing its carbine hook in the eye on the front sight holder; at the rear, its loop and spring

When used as a normal carrying sling, the double loop hangs from the carbine hook. To convert the sling to the "ready" carrying mode (Fig. 47). pull the double loop over the carbine hook (Fig. 45) and attach it to the handguard, depending upon how the sling is worn.

Set the combat sling to the proper length for the individual shooter by readjusting the sliding buckle. The correct sling length can be checked by assuming the desired fring position.

When slinging the rifle (Fig. 35), one half of the sling (1) should extend over the shooter's back, with the other half (2) resting across his chest.



Carrying and slinging modes, firing positions







Using the HK 93 Semi-automatic Rifle with Telescopic Sight



Fig. 53 Telescopic sight with mount

- The telescopic sight is mounted as follows:

 Before attaching, swivet the claws (53/1) on the mount outward.

 Place mount on the rifle from above, keeping the mount titted
- slightly to the right and rest its plastic nose against the sight oylinder.

 Note the inscription "streeting of fire" and the across on the better of
- the mount.

 > Press clamping lever (53/2) downward until the catch (53/3) engages audito. References before the catch (53/3) engages audito.
 - Removing the telescopic sight

 To remove the telescopic sight with mount, push clamping lever
 - downward.

 Press natch downward with thumb and raise clamping lever again.
 - Press catch downward with thumb and raise clamping lever again
 Tip telescopic sight with mount to the right and remove.





1414





> Before aiming, set the sights for the appropriate range and select the

Now aim at the target by means of the digeter hole and the front sight. > make sure that the target appears to be resting on too of the front sight post

- Correct point of simi -

In this sight picture, the front sight is centered precisely in the diopter hole.



- Aiming errors by not having an even circle of light -















Magazine for 5 rounds empty....

	223 00, 300, 400 m and op	on "V" sigh
Lengths Weapon with fixed butt stock Carbine when butt stock retracted. Sight radius. Barrel. Twist length.	29.92 in. 19.09 in. 16.14 in.	(940 mm (760 mm (485 mm (410 mm (305 mm
Weights Wespon, without magazine		(3.60 kg)

8.83 oz. (250 g)

... 2.12 oz. (60 g)