SW370-BD-OPI-010

Operator's Manual Mark 23 Pistol, Semi-automatic, Caliber .45 ACP



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WARNING

A firearm has the capability of taking your life or the life of someone else! Be extremely careful wfirearm. An accident can occur at anytime and is almost always the result of not following basic safet yrules. th your

TABLE OF CONTENTS

2	2 14 Heavy Rain and Water Operations - All Climates	
2,	2.13 Hot, Dry Climates	
2:	2.12 Hot, Wet Climates	
	2.11 Extreme Cold	
2:	SECTION IV OPERATION UNDER UNUSUAL CONDITIONS	SECTION IN
2:	2.10 Firing the Pistol	
2	2.9 Readying the Pistol for Firing 2	
	2.8 Loading Procedure	
1:	2.7 Loading and Unloading the Magazine	
	2.6 Clearing Procedures	
	OPERATIO	SECTION III
	2.5 Safety Features	
1	2.4 Cycle of Operation	
	2.3 Operation and Characteristics	
1	2.2 Description	
1	SECTION II GENERAL DESCRIPTION	SECTION II
10	2.1 Initial Inspection	
	SECTION I SERVICE UPON RECEIPT OF MATERIAL	SECTION I
10	PERATING INSTRUCTIONS	CHAPTER 2
	1.5 Technical Specifications	
	1.4 Major Assembly Groups	
	1.3 Principle of Operation	
	1.2 Nomenclature	
	PISTOL DESCRIPTION	SECTION II
		SECTION
ָר ג	INTRODUCTION	CHAPTER 1

CHAPTER 3 SECTION II SECTION III SECTION IV CHAPTER 4 FIREARM SE	2.15 Kemedial Action
SECTION V	
	2.15 Remedial Action
CHAPTER 3	MAINTENANCE INSTRUCTIONS
SECTION I	TOOLS & EQUIPMENT
	3.1 Operator Tools and Equipment Required
SECTION II	PMS CHECKS & MAINTENANCE PROCEDURES27
	3.4 Reassembly (From field strip)
	3.5 Safety/Function Check
	3.6 Function Firing
	3.7 Cleaning
	3.9 Lubrication
SECTION III	ADJUSTMENT OF SIGHTS
SECTION IV	TROUBLESHOOTING PROCEDURES
	3.11 Parts Listing and Exploded Diagram46
CHAPTER 4	
FIREARM SE	RVICE RECORD INSIDE BACK COVER

SECTION I - GENERAL INFORMATION

The HK Mark 23 .45 ACP pistol give shooters match grade accuracy equal to that of the finest custom made handguns — yet it exceeds the most stringent operational requirements ever demanded of a combat handgun.

The Mark 23 provides this accuracy without the need for hand-fitted parts common in custom-built match pistols costing thousands of dollars more. Repair of the Mark 23 is reduced to a simple parts exchange.

The HK Mark 23, is a commercial model of the U.S. Government issue MK 23, MOD 0 pistol and is available in limited numbers. Designated the "Mark 23", it is almost identical to the MK 23, MOD 0 pistol used by the Special Operations Command, right down to its threaded barrel. The main differences are slide Markings (Mark 23 as opposed to MK 23) and a barrel manufactured to SAMMI headspace specifications.

One of the most thoroughly tested handguns in history, the MK23/Mark 23 project originated in 1991 when HK was awarded a development contract for the Special

Operations Forces Offensive Handgun Weapon System, consisting of a caliber .45 pistol, detachable sound and flash suppressor, and laser aiming module (LAM).

During testing, MK 23 pistols met the most stringent operational and accuracy requirements ever demanded of a combat handgun. MK 23 pistols achieved match grade accuracy of less than a 2.5 inch maximum extreme spread in 5-round shot groups at 25 meters with service ammunition. Endurance testing demonstrated a service life of over 30,000 rounds of +P ammunition with no parts breakage, with an additional 30,000 rounds certified on the slide and frame.

To meet the reliability requirement, the pistol had to demonstrate a minimum of 2,000 mean rounds between stoppages (MRBS) with both M1911 ball and +P ammunition. The minimum MRBS achieved in testing was 6,027 and the maximum was 15,122!

During over 450 accuracy test firings from a precision firing fixture, MK 23 pistols far exceeded the government requirement, averaging 1.44 inches, with 65 groups of less than one inch. There were four groups of .5 inches, with 5 rounds going through the same hole! This included firing with and without the sound/flash suppressor

Three pistols were tested for accuracy after firing over 30,000 rounds, the specified service life of the pistol, and still met the new pistol accuracy requirement. An innovative design feature, a high temperature rubber Oring on the barrel that seals the barrel in the slide until unlocking, led to this remarkable achievement. The Oring lasts beyond 20,000 rounds and can be replaced by the operator without tools in seconds.

To meet operational environmental requirements, the pistol was function tested at +140 and -25° F, immersed in salt water, exposed to surf, salt-fog, sand-dust, mud, icing, unlubricated, and a variety of other fouled environments. A special maritime surface coating protects the pistol from corrosion, in all of these operational environments.

The barrel is threaded to accept accessories such as a flash and sound suppressor. The unique HK polygonal bore profile increases muzzle velocity and service life, reduces bore fouling and eases cleaning.

The frame mounted MK 23 decocking lever is separate from the ambidextrous safety lever. It allows the hammer to be lowered quietly and safety from the single action position. When the hammer is down, the ambidextrous frame mounted safety lever is locked in the fire position so that the pistol is always ready for double action

operation. When the hammer is "cocked and locked" in single action mode with the safety lever on "safe", the decocker is blocked so that the pistol is always ready for single action operation. Even with the safety lever engaged, the slide can still be manipulated to load and clear the pistol.

The extended slide release lever and the ambidextrous magazine release are easily operated without adjustment of the firing grip using the firing hand thumb or index finger.

Other notable features include accessory mounting grooves on the frame, a mechanical recoil reduction system that reduces recoil forces to the shooter and components of the pistol by as much as 30%, a polymer frame, a one-piece machined steel slide, and a law enforcement/military magazine capacity of twelve rounds. The weapon is aimed using either iron sights or an optional laser aiming component. The iron sights provide a 3-dot sight picture with white or optional self-luminous tritium dots.

The MK 23 became the first caliber .45 ACP pistol to enter U.S. military service since the venerable Government Model 1911A1. On May 1, 1996, the first MK 23 pistols were delivered to the U.S. Special Operations Command for operational deployment.

1.2 Nomenclature

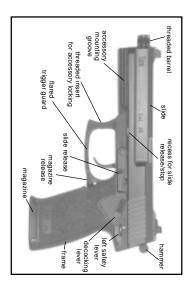


Figure 1 Left View

1.3 Principle of Operation

A. The Mark 23 uses a modified linkless Browningstyle short recoil system to lock and unlock the breech.

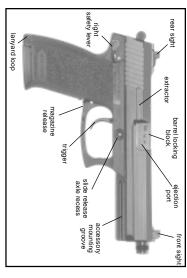


Figure 2 Right View

B. Upon firing, the pressure developed by the propellent gas forces the slide and barrel assembly to the rear. After approximately 3 mm, the locking block will stop the rearward movement of the barrel as the barrel is pivoted downward due to the engagement of the angled surfaces of the locking block with those located

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in the recoil spring guide rod. The locking block will disengage from the slide and the slide will continue rearward.

The extractor located in the slide will then extract the fired cartridge case, the ejector located in the frame on the left side of the magazine well will eject the fired case as the slide continues rearward and cocks the hammer, and compresses the recoil spring.

The slide moves forward feeding the next cartridge from the magazine into the chamber and locking to the barrel breech.

C. The slide locks open after the last round has been fired and ejected.

WARNING

Do not rely on the slide lock to determine i the magazine is empty. Always check visually and physically ensure the pistol is not loaded

1.4 Major Assembly Groups (See Figure 3)

A. Slide - houses the firing pin, firing pin block and

extractor; cocks hammer during recoil.

- (with guide rod) absorbs recoil and returns the slide and barrel to their forward positions; reduces impact of slide on receiver during recoil. The recoil spring is "captured" by a C-clip on the end of the guide rod.
- C. Threaded Barrel (with locking block) contains cartridge and propellent gases during firing. The locking block initiates locking and

slide. The O-ring holds the barrel tight in the slide until unlocking.

unlocking of the breech during movement of

D. **Frame** - serves as support to all major components; controls functioning of pistol. The slide release locks the slide with barrel and recoil/buffer spring assembly to the metal locking insert cast into the synthetic frame. A lanyard loop is in the bottom of the grip for attaching a lanyard. The trigger guard is flared on both sides to preclude accidental actuation of the magazine release during holstering.

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E. Magazine - holds the cartridges in position for feeding and chambering.

F. Slide Release - holds slide to rear when engaged; releases slide when lever is depressed.

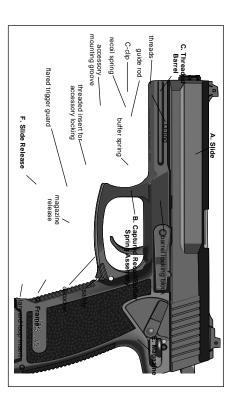


Figure 3 Major Assembly Groups

1.5 Technical Specifications:

Caliber		.45 ACP (Auton	45 ACP (Automatic Colt Pistol)
System of Operation	ltion	short recoil, semi-automatic	ni-automatic
Locking System		Browning syste	Browning system (modified), linkless
Length	Barrel	5.87 in.	(149 mm)
	Sight radius	7.76 in.	(197 mm)
	Pistol	9.65 in.	(245 mm)
Weight	Magazine (empty) 12 or 10 rd. capacity	.24 lbs.	(.110 kg)
	Magazine (w/12 rds M1911 Ball)	.81 lbs.	(.366 kg)
	Magazine (w/10 rds M1911 Ball)	.72 lbs.	(.327 kg)
	Pistol (w/ empty 12 or 10 rd magazine) 2.66 lbs.	2.66 lbs.	(1.21 kg)
	Pistol (w/ 12 rds M1911 Ball)	3.22 lbs.	(1.46 kg)
	Pistol (w/ 10 rds M1911 Ball)	3.13 lbs.	(1.42 kg)
Trigger Pull	Single-action	4.85 lbs.	(2.20 kg)
	Double-action	12.13 lbs.	(5.50 kg)
Height		5.90 in.	(150 mm)
Width		1.53 in.	(38.8 mm)
Muzzle velocity	M1911 230 grain ball	886 fps	(270 m/s)
	+P 185 grain JHP	1142 fps	(348 m/s)
Maximum Effective Range	ve Range	54.7 yds	(50 m)
Maximum Range (M1911 ball)	(M1911 ball)	1,467 yds	(1,341 m)
Rifling		polygonal bore right hand twist	right hand twist
Magazine		staggered, 12 r	staggered, 12 round capacity (10 round civilian)
Safety Features		1. safety lever (safety lever (manual), 2. double-action mode with 12.1 lb. trigger
		pull, 3. firing pir	pull, 3. firing pin block, 4. disconnector

CHAPTER 2 OPERATING INSTRUCTIONS

SECTION I - SERVICE UPON RECEIPT OF MATERIALSECTION II - GENERAL DESCRIPTION

2.1 Initial Inspection. Upon initial receipt, the pistol is to be inspected to ensure it was received in

proper working order.

Step Action Reference

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Safety/ function check	Assemble	Clean, dry and lubricate	Proper assembly	Missing parts	inspect for:	Field strip weapon and	Check for missing items	Remove packing material	from container	Remove pistol and items
para. 3.5	para. 3.4	37 30			para. 3.3					

down (DA) or cocked position (SA).

magazine fed, recoil operated, double/single-action pistol, chambered for the .45 ACP cartridge up to, and including, the commercial +P cartridges. 2.2 Description: The Mark 23 is a semiautomatic,

the pistol will fire from either the hamme ger is pulled with the safety lever in the fir action modes of operation. Anytime the trig The Mark 23 incorporates single and doubl (down) position and a round in the chamber WARNING

CAUTION

A pair of Universal Mounting Grooves located on the front of the Mark 23 frame allow for a variety of accessories to be used with the pistol. Improperly designed or installed accessories may result in damage to the Mark 23 mounting grooves and/or the Mark 23. Such damage is not covered under warranty. Be certain to use only HK Authorized Accessories and follow installation and precautions carefully.

NOTE

Accessories designed for the Universal Selfloading Pistol (USP) will not work on the Universal Mounting Grooves of the Mark 23

2.3 Operation and Characteristics

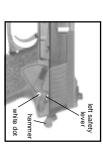
A. **Double/Single Action -** For double-action (DA), pulling the trigger will cock the hammer and immediately release it discharging a chambered round. To fire the first chambered round in single-action (SA), the hammer must

be manually cocked before pulling the trigger. All shots after the first one will be fired single-action because the slide automatically recocks the hammer after each shot.

- B. **Magazine** The magazine is produced from sheet steel and has a total capacity of 12 rounds. The rounds are positioned within the magazine in a staggered arrangement. Rounds are visible through the viewing holes located along the back side of the magazine housing. The viewing holes are marked with numerals denoting the number of rounds remaining within. The floor plate can be easily removed for disassembly and cleaning of the magazine components.
- C. Loaded Chamber Indicator The Mark 23 pistol does not have a loaded chamber indicator. The extractor does not act as a loaded chamber indicator.
- D. Decocking Lever The decocking lever allows the operator to quietly lower the cocked hammer without concern of an accidental discharge. When the hammer is cocked, it may be lowered

safely by moving the decocking lever fully into the decocking (down) position. The decocking lever cannot be depressed (and therefore does not allow the hammer to be lowered) if the safety lever is engaged. The decocking lever always springs back into its disengaged (up) position due to the spring pressure exerted by the decocking spring.

E. **Safety Lever** - The safety lever is an ambidextrous "thumb" lever located on the rear of the frame. It is actuated by the firing thumb of the operator. The safety lever blocks the release of the cocked hammer when it is in the engaged (up) "safe" position (See Figure 4a). The safety lever is depressed downward into the "fire" position (See Figure 4b). The safety lever is not spring actuated and therefore must be moved manually from one position to the other by the operator.



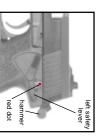


Figure 4a "Safe" Position Figure 4b "Fire" Position The safety lever cannot be placed in the "safe" (up) position if the hammer is uncocked (down).

WARNING

The pistol should always be carried with the safety lever engaged when carried in the single action mode. While there is a spring detent to prevent this, the safety lever can be moved to the "fire" position (down) with a minimum amount of force. This could happen during careless handling or during removal of the pistol from the holster. Always check the position of the safety lever during handling.

F. Frame - The front and back straps of the fiberglass reinforced polymer frame are checkered to ensure a firm grip, even with wet hands or under conditions of rapid fire. The trigger guard is extended, recurved and grooved to provide a firm grip when using two hands or gloves. The bottom of the trigger guard is flared on both sides in front of the magazine release lever to shield the lever from accidental actuation.

A threaded insert is molded into the front face of the trigger guard and the frame is grooved forward of the trigger guard for attachment of an accessory such as a laser aiming device or an illuminator. The frame is a one-piece molded component with metal inserts (locking insert and guiding part) cast into the frame during production. The slide rides on these metal inserts during operation.

G. Slide Release Lever - This lever is used to lock the slide open and for disassembling the weapon. As a slide stop, it is depressed upward by the magazine follower or the operator's finger as the slide travels rearward during recoil

or manual operation. The slide release lever engages the recess visible on the left side of the slide and is spring actuated. The slide release spring holds the slide release lever in a disengaged (down) position until required. As a disassembly lever, the slide release lever is removed from the left side of the frame when the slide is held rearward (see para. 3.3). The slide release lever can be actuated by the firing thumb of the right handed operator.

- H. Magazine Release Lever This ambidextrous, spring actuated lever holds the magazine within the grip by engaging in the notch found in the upper third of the magazine housing.

 Depressing this lever with the firing hand index finger or thumb will allow the magazine to drop from the grip. The magazine release lever is shielded from accidental actuation by the flared trigger guard and the design of the synthetic frame surrounding the lever.
- **2.4 Cycle of Operation**. Begins with weapon loaded, hammer cocked, safety lever disengaged.

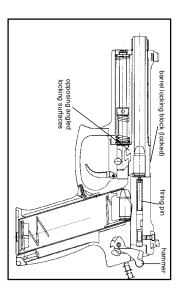


Figure 5 Firing

A. **Firing** - (See Figure 5) Pulling the trigger rearward pulls the trigger bar forward. The trigger bar pivots the sear actuator upwards which disengages the firing pin block. At the same moment, the sear is pivoted out of engagement from the lower of the two shelves located on the hammer. The compressed hammer spring drives the hammer forward into

the rear end of the firing pin. The firing pin strikes the primer of the chambered round. The propellent is ignited by the primer and propellent gases are created inside the cartridge case. The propellent gases drive the projectile down the polygonal bore which spins the projectile in a clockwise direction as a means to stabilize the projectile's flight.

B. Unlocking - (See Figure 6) The gas pressure of the barrel to tilt downward as the slide moves the barrel by the engagement of the barrel push rearward on the slide, which is locked to and energy produced by the propellent gases independently of the barrel. locking block then disengages from the slide. chamber has dropped to a safe level. The barrel recoiled approximately 5 mm, the projectile has block and recoil spring guide rod cause the rear the slide. The opposing angled locking surfaces locking block within the ejection port milled into left the barrel and the gas pressure within the rearward. By the time the slide and barrel have incorporated into the design of the barrel locking The slide is now free to recoil rearward

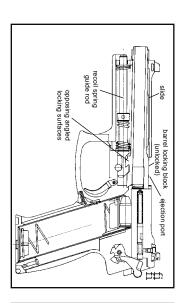


Figure 6 Unlocking

- C. Extraction -The empty cartridge case is held firmly against the face of the slide by the claw of the extractor as the slide recoils rearward.
- D. Ejection (See Figure 7) -The rim of the cartridge case strikes the stationary ejector. The empty case is ejected from the open ejection port.

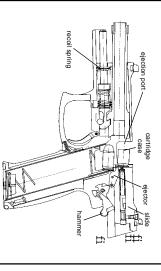


Figure 7 Ejection

E. Cocking - (See Figure 7) - As the slide continues rearward the recoil impulse is dampened by the buffer spring. The recoil spring is compressed and the hammer recocked.

- F. Feeding (See Figure 8) -The compressed recoil spring drives the slide forward. If the magazine is empty, the magazine follower will lift the slide release to a point where it will stop the forward progress of the slide. If the magazine is not empty, the face of the slide will make contact with the top round in the magazine. The round will be driven from the magazine towards the chamber. The tip of the projectile is guided into the chamber by the magazine lips until the round clears the magazine completely. At that moment the claw of the extractor snaps onto the rim of the cartridge case as it becomes parallel with the
- G. Chambering The slide pushes the cartridge forward until the projectile enters the mouth of the forcing cone of the bore and the face of the slide contacts the rear of the barrel locking block.

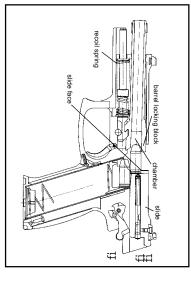


Figure 8 Feeding

H. Locking - (See Figure 5) -The slide presses the barrel forward. As it does, the opposing angled surfaces of the barrel locking block and recoil spring guide rod pivot the rear end of the barrel up into engagement with the ejection port in the slide. The slide is now fully forward and the new round is ready to be fired.

2.5 Safety Features

- Safety Lever This safety blocks the release of the cocked hammer in the SA mode. The safety lever decocking lever and blocks the hammer operator. The shaft of the safety lever moves the movement of the slide. The safety lever is held in sear block into a position where it blocks the of the frame further most back from the trigger. The position when the hammer is down (uncocked). either the fire or safe position by a spring detent. mechanically. The safety lever does not restrict the safety lever also interrupts the function of the thus the hammer cannot be released. Engaging the in turn, does not allow the sear to pivot forward and movement of the sear actuator. The sear actuator, safety lever must be manually actuated by the is an external, manually operated, ambidextrous The safety lever cannot be placed in the safe (up) "thumb" lever located on the left and the right side
- B. **Double-Action Mode** This safety keeps the hammer in an uncocked condition until the moment of firing. The double-action mode operates as a passive safety feature in the pistol much as this mode of operation would in

- any DA revolver or pistol. The hammer is left uncocked until the decision to fire is made. At all times the firing pin is locked by the firing pin block until the trigger is pulled. Approximately 12.1 pounds of pressure on the trigger is required to cock and release the hammer in the DA mode of operation. The mode of operation also permits subsequent hammer strikes on the same chambered round by simply resqueezing the trigger.
- C. Firing Pin Block This safety prevents the firing pin from striking the primer when the weapon is dropped, the hammer is bumped, or when the slide slams forward. The firing pin block is located in the slide and blocks the forward movement of the firing pin. Only when the trigger is depressed can the sear actuator push the firing pin block upward against the downward pressure exerted by the firing pin block spring. Once the round has been fired and the slide begins to recoil, the firing pin block is pushed back down by the firing pin block spring and engages within the recess provided in the center portion of the firing pin.

D. **Disconnector** - This safety prevents the release slide is fully forward, the leading edge of the engagement with the trigger bar. When the engaged (operating) after the slide has moved and the sear actuator. The disconnector is and/or the trigger is reset (released) between edge of the disconnector down and into 2mm to the rear. The slide presses the leading disconnects the engagement of the trigger bar of the hammer unless the slide is fully forward provided in the bottom of the slide disengaged disconnector resides in a recess malfunctions from occurring, such as "slam-(with the breech unlocked). The disconnector fire, or a round being fired out of the battery fires" (rounds that fire during loading), automatic rounds. This important safety prevents serious

SECTION III - OPERATION UNDER NORMAL CONDITIONS

WARNING

Always clear the pistol before handling it.

2.6 Clearing Procedures

- A. The Mark 23 pistol is not considered "clear" or safe unless:
- The magazine is removed,
 The slide is locked to the rear, and
- 3. The chamber is free of brass or ammunition.
- 4. The safety lever is set on "safe".

NEVER ASSUME THE PISTOL IS CLEAR!

B. To Clear the Pistol:

- 1. Make sure fingers are outside of the trigger guard and the pistol is pointed in a safe direction at all times!
- 2. Decock Hammer or Engage Safety depress decocking lever or engage the safety lever.
- Remove Magazine depress the magazine the frame. release lever and remove the magazine from

- Open Slide lock slide open by pulling slide rearward as you engage the slide release lever (up). Watch for live round or empty case to be ejected.
- 5. **Inspect Chamber** inspect chamber for the presence of a live round or empty case:
- a. Visually view chamber through ejection port.
- b. Physically insert finger into chamber through ejection port and check for presence of cartridge case in chamber.
- Remove any live rounds or empty cases from the chamber or from within the weapon.

The pistol is now considered "clear".

2.7 Loading and Unloading the Magazine - (See Figure 9)

The magazine of the Mark 23 pistol holds 10 rounds of .45 caliber ammunition in the commercial magazine and 12 rounds in the Law Enforcement/ Government magazine.

A. Loading the Magazine -

1. Hold the magazine in one hand

- Hold a round between the index finger and thumb of the other hand with the projectile pointing towards the palm.
- pointing towards the palm.

 3. Press the rim of the round down against the front edge of the follower or the top round in the magazine and slide the round back under the magazine lips.
- 4. Repeat steps 1 3 until the magazine is full. The viewing holes in the back of the magazine allow the operator to confirm the number of rounds present within the magazine.

WARNING

Forcefully inserting a loaded magazine into the Mark 23 may cause the pistol's slide to close, chambering a cartridge and making the Mark 23 ready to fire.

When inserting a magazine, always be certain that the pistol is pointed in a safe direction with your fingers off the trigger and outside the trigger guard. Failure to do so could cause you to unintentionally fire the pistol, resulting in serious injury or death.



Figure 9 Loading the Magazine

B. Unloading the Magazine - exert pressure with the finger on the base of the cartridge case and push each round forward out of the magazine one round at a time until the magazine is empty.

2.8 Loading Procedure

A. Administrative Loading - used to initially load the pistol before it is to be fired.

Method A (Slide rearward, chamber empty)

Make sure fingers are outside of trigger guard and pistol is pointed in a safe direction at all times!

- Insert magazine firmly into the frame. Tug on magazine to insure that it is fully seated and engaged.
- 3. Depress the slide release lever to release the slide and to chamber the first round.4. Engage safety lever or depress decocking
- 5. Remove magazine and top off with one
- additional round.

 6. Reinsert magazine insuring that it is fully seated.

Method B (Slide forward, chamber empty)

Make sure fingers are outside of trigger guard and pistol is pointed in a safe direction at all times!

- Insert magazine firmly into the frame. Tug on magazine to insure that it is fully seated and engaged.
- Retract the slide fully and release. Do not ride slide forward!

- 4. Engage safety lever or depress decocking
- Remove magazine and top off with one additional round.
- 6. Reinsert magazine insuring that it is fully
- B. **Tactical Reloading** used to quickly reload pistol once firing has begun.

Method A (Slide rearward, chamber empty)

1. Make sure fingers are outside of trigger

- guard and pistol is pointed in a safe direction at all times!
- 2. Keep eyes on target area.
- 3. Depress the magazine release with finger or 4. At the same time, retrieve a full magazine with thumb of firing hand to drop magazine.
- fully seated and engaged. the non-firing hand and insert firmly into the frame. Tug on magazine to insure that it is
- 5. Depress slide release to chamber first round
- Continue firing.

in magazine and chamber) Method B (Slide forward, rounds remaining

1. Make sure fingers are outside of trigger guard and pistol is pointed in a safe direction at all times!

- 2. Keep eyes on target area.
- 3. Depress the magazine release with finger or thumb of firing hand to drop partially empty
- 4. At the same time, retrieve full magazine with non-firing hand and insert firmly into the frame. magazine.
- 5. Weapon is now back at full capacity without Tug on the magazine to insure that it is fully seated and engaged. rendering chamber empty and weapon
- Continue firing

useless.

2.9 Readying the Pistol for Firing

Disengage the safety lever (if engaged). Red hazard dot will be visible above safety lever.

WARNING

- 1. BE SURE OF YOUR TARGET AND WHAT'S BEHIND IT Even a .45 caliber projectile can easily penetrate wood, plasterboard walls, or a car door, and can travel as far as one mile!
 2. Ensure that all parts of your hand and body are kept away from the muzzle of the pisablall times!
- 3. Always wear eye and ear protection where possible when firing the pistol.
- 4. Whenever the pistol is dropped on a hard surface landing on the hammer (cocked or down), it should be sent to the HK Service Department as soon as practicable to inspect the sear axle. If the sear axle is bent, it should be replaced.

2.10 Firing the Pistol

A. Single-action mode (Hammer back/cocked) Affords operator the best and lightest trigger pull (≈ 4.8 lbs.) for precise and accurate bullet placement.

With manual safety disengaged:

- Aim at the target.
- 2. Fire the weapon by pressing the trigger straight

to the rear with gradually increasing pressure.

Engage the safety lever to remain in the singleaction mode once firing is completed.

CAUTION

Single action mode trigger pull is lighter & shorter than double action mode. Keep your finger off the trigger & outside the trigger guard except when firing thmark 23.

- B. **Double-action mode** (Hammer down/uncocked) Provides the operator with a long, heavy (≈12.1 lbs.) trigger pull for the first shot only. Subsequent shots will be fired in single-action mode as the slide will automatically cock the hammer after each round is fired. The double-action mode of fire is often the preferred mode of fire when safety during handling and carrying is of greater concern than first round accuracy.
- 1. Aim at the target.
- Fire the weapon by pressing the trigger straight to the rear with gradually increasing pressure.
- b. Depress the decocking lever to lower the hammer to return to the double-action mode once firing is complete, or engage the safety lever to remain in the single action mode.

SECTION IV - OPERATION UNDER UNUSUAL CONDITIONS

for the climate that most applies to you the pistol. Perform the maintenance outline operational area. Refer to paragraph 3.9 fo condition requiring special maintenance o Unusual conditions are defined as any climati lubrication instructions.

CAUTION

Service Department. does not solve the problem, contact the H If extensive corrosion is found and cleaning

2.11 Extreme Cold

- A. When operating pistol in extremely cold climates, clean and lubricate the pistol inside at room temperature if possible.
- B. Apply a light coat of LAW (Lubricant, Arctic Weapons) to all functional parts.
- C. To prevent freezing, keep the pistol covered when moving from a warm to a cold area. This

will allow gradual cooling.

- D. Always keep the pistol dry.E. Do not lay a hot pistol in snow or ice.F. Keep ammunition dry; moisture will cause ammunition. malfunctions. Do not lubricate the
- G. Always keep snow out of the bore of the barrel. before firing using a swab and cleaning rod. If snow should get into the bore, clean the bore

2.12 Hot, Wet Climates

- A. Perform maintenance more frequently. Inspect hidden surfaces for corrosion. If corrosion is found, clean and lubricate.
- B. To help prevent corrosion, remove hand prints with a cloth. Dry and lubricate the pistol with CLP/LSA (Cleaner, Lubricant, Protectant).
- C. Check ammunition and magazines frequently for and wipe dry with a cloth. If necessary, clean corrosion. Clean the magazine using CLP/LSA ammunition with a dry cloth.
- D. Always keep mud out of the barrel. If mud should get into the bore, clean it before firing using a swab and cleaning rod.

2.13 Hot, Dry Climates

- A. Dust and sand will get into pistol and cause malfunctions and excessive wear on component contact surfaces during firing. Keep the pistol covered when possible.
- B. Corrosion is less likely to form on metal parts in a dry climate. Therefore, lightly lubricate internal working surfaces only with CLP/LSA. Do not lubricate external parts of the pistol. Wipe any excess lubricant from exposed surfaces. Do not lubricate internal components of magazine.

2.14 Heavy Rain and Water Operations - All Climates

A. Perform maintenance in accordance with the appropriate climatic conditions.B. Always attempt to keep pistol dry.C. Always try to drain any water from barrel prior to

firing. Dry the bore with a swab and cleaning

D. Lightly lube the bore and chamber. Generously lube internal and external surfaces of the pistol

with CLP/LSA.

E. In extreme or prolonged wet or saltwater conditions, cover serial number and proof mark on barrel and slide with a temporary protective coating. These are etched on through the permanent protective coating on the barrel and slide and therefore may corrode under these conditions.

SECTION V - MALFUNCTIONS AND STOPPAGES

interruption of the pistol's operation and place the 2.15 Remedial Action - Remedial Action is the pistol back into operation. action performed to remedy an unanticipated

WARNING

During remedial action, make certain the pis tol is pointed in a safe direction at all times

- A. Clear the pistol!
 B. Attempt to lock slide.
 C. Remove magazine.
 D. Inspect chamber.
 E. Insert fresh magazine
 F. Release slide.
 G. Attempt to fire the pistol.

If the Mark 23 fails to fire, return the weapon to the

points:

HK Service Department for service.

Selection - When selecting a carrying holster for the HK Mark 23, it is important to consider the following

Selection and Use of a Holster -

1. The holster must not make contact with or actuate and most importantly the safety lever and the hammer, slide release, magazine release lever any of the operating controls. This includes the

WARNING

could cause personal injury. This event i occurrence of this event in time to avoi reduced report and little or no movement commonly called a "pop and no kick" o or the pistol if another round is fired an projectile into the bore. A projectile lodged alone has enough power to propel th If a round is assembled without powder (firing the next round. the slide. An alert operator should notice the "squib load" and is characterized by a muc the bore may cause damage to the barrel and fault of the manufacturing process), the prime

drawn from, or returned to the holster. trigger. The design of the holster must also not actuate these controls when the pistol is carried in,

- 2. The holster should not cause the slide to move
- (unlock) when the pistol is returned to the holster.3. Accommodations must be provided in the holster for any accessories that might be present on the
- pistol.
 4. Choose a holster designed for the Mark 23.

returning it to the holster. The pistol is considered safe to return it to the holster when: Returning the Pistol to the Holster - The HK Mark 23 must be made "safe" (or cleared) prior to

- 1. All fingers are off of the trigger and out of the trigger

- guard and:
 2. The pistol is "clear" or;
 3. The hammer is in the decocked (down) position or;
 4. The safety lever is engaged in the safe position when the hammer is cocked.

WARNING

been followed or injury or death could occur The pistol must never be returned to the holster unless the above procedures have

CHAPTER 3 MAINTENANCE INSTRUCTION

SECTION I - TOOLS & EQUIPMENT

NOTE

The service life and performance of your HI Mark 23 is dependent upon the correct handling and proper care by the operator.

- 3.1 Operator Tools and Equipment Required. At a minimum, you will require the following materials to maintain the Mark 23 pistol and its components:
- Cleaning rod with handle and eyelet
- Long handled nylon brush
- Bronze bristle bore brush (.45 caliber)
- Cotton swabs
- Solvent/bore cleaner/CLP
- Cleaning patches (.45 caliber)
- Kag

CAUTION

Use safety goggles when using solvents an exercise care if using compressed air.

SECTION II - PREVENTATIVE MAINTENANCE (PM)
SERVICE CHECKS & MAINTENANCE PROCEDURES

a.2 General - This PM Service section lists those required checks and services to be performed by personnel who operate the Mark 23 pistol. This section includes the services required to prepare the pistol for operation, to check the pistol during operation, and to ensure proper function after maintenance. Before performing any PM Service procedures, ensure that the Firearm Service Record has been updated with the correct round count and any PM Service procedures documented. If your equipment fails to operate, refer to the Trouble-shooting Table in Section III.

WARNING

Before starting an inspection procedure CLEAR THE PISTOL! Inspect the chamber to ensure that it is empty. Do not keep live ammunition near maintenance /work areas.

NOTE

Before starting any PM Service procedure ensure that the Firearm Service Record has been updated with the correct round count and any PM Service performed documented.

3.3 Disassembly (Field stripping)

A. Pistol

1 Clear the pistol!

- Depress slide release and allow slide to move forward.
- 3. If applicable, remove any mounted accessories.
- 4. Using the left hand, retract and hold the slide to the rear approximately 22 mm until the front end of the slide release is centered on the recess visible on the left side of the slide (See Figure 10).
- With he right hand push the slide release into the recess on the right side of the frame, lift and completely remove the slide release from the left side of the frame.

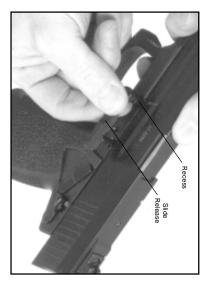


Figure 10 Removing or Installing the Slide Release

CAUTION

Hold the recoil/buffer spring assembly in place while removing the slide from the frame.

- Remove the slide with barrel and captured recoil/buffer spring assembly off of the frame by sliding it forward.
- Remove the captured recoil/buffer spring assembly from the barrel and slide by lifting up on the rear of the guide rod. The entire assembly can now be lifted out of the slide.
- 8. Lift the rear of the barrel by the locking block and withdraw it from the slide.

B. Magazine

12-Round Law Enforcement Magazine

- Using a blunt pointed instrument depress the locking detent protruding through the bottom of the magazine floor plate and hold it there.
- Place a portion of either hand over the base of the magazine to control the release of the magazine spring and locking plate.
- Slowly slide the floor plate forward off of the magazine housing.

 Gradually allow the locking plate and magazine.
- Gradually allow the locking plate and magazine spring to expand out of the magazine housing.
- Remove the locking plate, magazine spring and magazine follower from the magazine housing.

10-Round Civilian Magazine

- Using a blunt pointed instrument depress the locking insert detente located in the floor plate and hold it there.
- Place a portion of either hand over the base of the magazine to control the release of the magazine spring and locking insert.
- 3. With the locking detente still depressed, squeeze the floor plate locking tabs located on the right and left sides of the magazine.
- Gradually allow the locking insert and magazine spring to expand out of the magazine housing.
- Remove the locking insert, magazine spring and magazine follower from the magazine housing.

CAUTION

Beware of the spring tension exerted by the magazine spring while removing and installing the magazine floor plate. Keep the base of the magazine pointed in a safe direction (away from face and eyes) during disassembly and assembly.

AUTION

Operator disassembly of the Mark 23 pistol is now complete. Only trained HK Service Department personnel may disassemble the weapon further.

3.4 Reassembly (From field strip) A Magazine

12-Round Law Enforcement Magazine

- Place the magazine follower onto the end of the magazine spring having the loop at the end of the wire on the left side of the follower.
- Insert the follower and the magazine spring into the magazine housing.
- Place the locking plate onto the protruding end of the magazine spring so that the locking detent is visible (see Figure 11A).
 Push the locking plate down into the magazine housing against the pressure of the magazine
- spring and **hold it there**.

 5. Slide the floor plate over the base of the magazine housing and locking plate from front to rear making sure that:
- a. The floor plate engages the tabs located on

- the left and right sides of the magazine housing.
- b. The floor plate is fully seated on the magazine housing.
- The locking detent fits within the hole provided in the floor plate.
- d. Check the magazine for proper assembly by insuring that the follower slides up and down freely within the magazine housing and with spring tension. Also check that the magazine follower rises within the housing to be nearly flush against the bottom of the magazine lips.

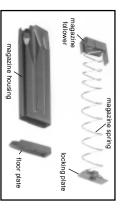


Figure 11A Assembly of Magazine Follower & Spring (12-Round Law Enforcement Magazine)

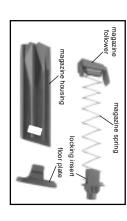


Figure 11B 10-Round Civilian Magazine (Disassembled)

10-Round Civilian Magazine (see Figure 11B)

- Place the magazine follower onto the magazine spring with the end of the spring positioned on the left of the follower.
- Insert the follower and magazine spring into the magazine housing.
- 3. Place the locking insert (on 10-round magazines) onto the protruding end of the face towards the front of the magazine. magazine spring so that the rounded corners

- spring **and hold it there.**5. Push the floor plate up onto the base of the 4. Push the locking plate down into the magazine housing against the pressure of the magazine
- engage in the sides of the housing. Check to magazine housing until the locking tabs the hole in the floor plate. locking detente on the locking plate fits within securely locked into the housing and the see if the locking tabs on the floor plate are
- 6. Check the magazine for proper assembly by be nearly flush against the bottom of the spring tension. Also check that the magazine follower rises within the magazine housing to insuring that the follower slides up and down magazine lips. freely within the magazine housing and with

B. Pistol

- 1. Insert the muzzle of the barrel through the large hole located in the front of the slide.
- 2. Drop the barrel down into the slide and push it are visible along the bottom of the slide. The the angled locking surface of the locking block locking block fits within the ejection port, and forward until the O-ring engages the slide, the

O-ring will now hold the muzzle tight in the front of the slide.

- Install the captured recoil/buffer spring
 assembly into the slide so that the front of the
 recoil spring guide rod engages in the smaller
 hole located in the front of the slide.
 A plicent the coposing angled locking surfaces of
- Align the opposing angled locking surfaces of the recoil spring guide rod with those located on the bottom of the barrel locking block.
 Dush the rear of the recoil/buffer spring
- 5. Push the rear of the recoil/buffer spring assembly forward enough so that the recoil spring retainer can be engaged on the shelf provided on the front of the barrel locking block (see Figure 12).
- Hold the slide in the right hand with the thumb holding the rear end of the recoil/buffer spring assembly in place on the slide (see Figure 13).
 Hold the frame in the left hand. Position the
- 8. Draw the slide back onto the frame so that the rails of the locking insert and guiding part slide within the grooves in the slide.

rear of the slide above the front edge of the

Retract the slide to the point where the recess in the left side of the slide is centered on the hole where the axle of the slide release will go.

> 10. Hold the slide in this position and insert the slide release from the left to right into the frame until it is flush with the side of the frame and locks in place.

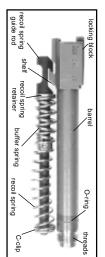


Figure 12 Proper Position for the Captured Recoil/ Buffer Spring Assembly on the Barrel Locking Block

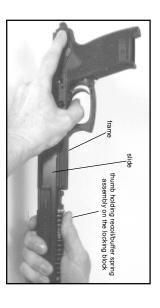


Figure 13 Correct Position for Holding Slide for Reassembly

NOTE
Operator reassembly of the Mark 23 pistol is now complete, but not finished without a safety/function check.

3.5 Safety/Function Check

A. A safety/function check should be performed anytime the pistol is reassembled. This quick

check indicates whether or not the pistol was properly assembled and with all the components. A properly executed safety/function check can also reveal many of the more obvious malfunctions that could occur between the interactive components of the pistol.

B. Always clear the pistol before performing a safety/function check! Don't assume the pistol is clear!

1. Clear the pistol!

- Actuate the slide and the operating controls to insure that:
- a. Magazine and catch the magazine is held securely in place by the magazine catch and that it drops free of the frame when the catch is depressed.
- Slide the slide moves freely and without binding on the frame (with and without a magazine installed).
- magazine installed).

 c. Barrel the barrel locking block does lock fully into battery within the ejection port of the slide as the slide is closed.

d. Slide Release -

1) The slide release does hold the slide open when retracted while:

- a) an empty magazine is in place.b) the slide release is engaged (pressed
- 2) The slide release does permit the slide to snap forward when:

upwards).

- a) the slide release is depressed
- b) the slide is retracted without a magazine installed.
- The slide release does rebound with spring pressure.
- 3. Perform the following safety checks:

a. Safety Lever Test.

- With the pistol unloaded and hammer down (uncocked) attempt to press the safety lever upward into the safe position. The safety lever should not engage. If the safety lever engages, return the pistol to the HK Service Department for service.
- With the pistol unloaded, the hammer cocked, move the safety lever several times from the "safe" to "fire" position. If the safety lever does not have a pro-

- nounced stop when moved from "safe" to "fire" position and back, return the pistol to the HK Service Department for service.
- 3) With the pistol unloaded, cock the hammer and press the safety lever upward into the safe position. Grasp the pistol in the shooting position and squeeze the trigger three or four times. If the hammer falls, return the pistol to the HK Service Department for service.

b. Decocking Lever Test

- With the pistol unloaded, cock the hammer and depress the decocking lever. If the hammer does not fall or the decocking lever does not rebound (upward into its normal position) with spring pressure, return the pistol to the HK Service Department for service.
- With the pistol unloaded, cock the hammer and press the safety lever upward into the safe position. Attempt to depress the decocking lever three or four

times. If the hammer falls, return the pistol to the HK Service Department for service

c. Decocked (hammer down) Test

NOTE

On the Mark 23 pistol when decocked (hammedown), the sear is engaged with the hammer a a rebounded stop position not touching the rear of the firing pin.

1) With the pistol unloaded, squeeze the trigger allowing the hammer to cycle in the double action mode. After the hammer drops, retain pressure on the trigger. With the non-firing hand apply pressure with your finger tips on the rear of the hammer. The hammer should move forward toward the fining pin. Release pressure on the trigger while still retaining pressure with fingers on hammer. Release pressure on hammer. If the hammer fails to spring back into the stop position, return the pistol to the HK Service Department for service.

2) With the pistol unloaded, hammer uncocked, trigger forward, apply pressure to the hammer with your finger tips. If the hammer moves forward to the firing pin, return the pistol to the HK Service Department for service.

d. Disconnector and Trigger Test.

- 1) With the pistol unloaded, cock the hammer, push the slide rearward approximately 3/16 inches (2mm) and hold in that position while squeezing the trigger. If the hammer falls, return the pistol to the HK Service Department for service.
- 2) With the pistol unloaded, pull the slide rearward until the slide stop will engage. Squeeze the trigger and release the slide forward simultaneously. If the hammer falls, return the pistol to the HK Service Department for service.

- 3) With the pistol unloaded, pull the slide rearward and engage the slide. Squeeze the trigger and release the slide forward simultaneously. Release pressure on the trigger. If the trigger does not return to its normal position, return the pistol to the HK Service Department for service. Squeeze the trigger and the hammer should fall. If the hammer does not fall, return the pistol to the HK Service Department for service.
- 4) With the pistol unloaded and the trigger forward, apply thumb pressure to the cocked hammer. If the hammer lowers solely as a result of thumb pressure, return the pistol to the HK Service Department for service.

3.6 Function Firing

If any corrective action was accomplished, the pistol shall be function fired a full magazine prior to being cleaned and returned to service use.

3.7 Cleaning - performed after each firing, or every twelve (12) months, or after any exposure to extreme environmental conditions such as salt, fog, sand, dust, mud, water, etc.

A. Normal Cleaning

Clear the pistol!

- Disassemble the pistol into the major assembly groups.
- a. Slide -
- Scrub all internal surfaces of the slide using the nylon brush moistened with
- solvent.

 2) Remove all loose fouling from all surfaces of the slide using a rag and cotton swabs.
- b. Recoil/buffer spring assembly remove all visible fouling using solvent, a nylon brush, a rag, and cotton swabs.
- c. Barrel with locking block -
- Moisten the bronze bore brush with solvent and scrub the bore from chamber to muzzle at least six passes, back and forth. (Note: Repeat steps 1 and 2 until a cleaning patch can be pushed through the

bore and remains clean.)

- Remove the loose fouling using cleaning patches.
- Scrub outside surfaces of barrel and locking block with the nylon brush moistened with solvent.
- Scrub the threads of the barrel and O-ring with the nylon brush moistened with solvent.
- Remove all loose fouling using a rag and cotton swabs.

d. Frame -

- Scrub all internal surfaces where carbon fouling is visible using the nylon brush moistened with solvent. Concentrate on the area normally covered by the slide.
- Using the rag and cotton swabs, remove all loose fouling from all areas of the frame.

e. Magazine -

- The magazine is disassembled for cleaning.
- Scrub the top of the magazine, concentrating on the follower and feed lips, using the nylon brush moistened with solvent.
- Using the rag and cotton swabs, remove all loose fouling from all surfaces of the magazine.

All parts of the HK Mark 23 can be immersed in any cleaning solvent that it is safe to put your hands into. Gasoline and other motor fuels are not authorized cleaning solvents. Avoid cleaning the frame in an ultrasonic cleaner as this can remove the colored "safe" and "fire" dots.

3.8 Inspection

During and after cleaning the operator should inspect the pistol and its components for any irregularities that may cause problems during its operation. If any potential deficiencies are noted, they should be corrected immediately and/or brought to the attention of the HK Service Department for service.

A. Visually Inspect the Pistol and Magazine for:

- Damaged or missing parts
- 2. Improper assembly or function
- 3. Absence of free movement, where applicable
- 4. Absence of spring tension, where applicable

- 5. Unaccustomed looseness6. Parts exhibiting signs of cracks, burrs, dents, or obvious signs of damage or stress
- 7. Presence of stops or tactile clicks in controls, where applicable
- 8. General overall cleanliness
- Presence of proper lubrication
 Presence of corrosion or degradation of
- 11. Rubber hammer spur for cracks or chips

CAUTION

should be returned to HK Service Departmen chipped, drop safety could be degraded. Pisto If the rubber hammer spur is badly cracked o to replace hammer.

3.9 Lubrication

corrosion including corrosion resulting from special surface treatment that resists all types of All metal surfaces of the Mark 23 pistol have a exposure to salt water. However, this surface therefore, lubricant must be applied to the pistol treatment does not reduce friction between parts

> well on the Mark 23 pistol. (oil or grease) specifically designed for use on firearms, such as "Break-Free" (C.L.P.), will work Any type of high-quality, medium weight lubricant

Do not use lubricants that boast of their ability to penetrate metal as these substances may deaden

A. Where and how much?

No Lube - (surface is dry and not slippery to the

Plastic components

little or no lube) Light Lube - (finger run across surface yields

- Bore, chamber, and exterior of barrel
- All metal parts
- All internal parts in slide and frame
 Magazine housing and spring
- Recoil/buffer spring assembly
- Sights O-ring

surface when held in a vertical position)

• Barrel locking block

• Slide rails yields some lube but lube does not run down Medium Lube - (finger run across surface

- All operating controls
 Locking insert and guiding part
 Extractor

Heavy Lube - (Lube runs down surface when held in a vertical position)

No heavy lube is required on the Mark 2. NOTE

pistol.

Reapply lubrication periodically during firing as it burns off from the heat. Apply lubricant using a shaving brush, cotton swabs, patches, or rag. A spray bottle also works well using compressed air to circulate the lubricant into all parts and to remove the excess.

SECTION III - ADJUSTMENT OF SIGHTS

Description -

- 1. The mechanical sights supplied with the Mark 23 pistol are comprised of a fixed front sight post combined with a rear sight with u-shaped notch of a conventional configuration. Both front and rear sights are held in place on the slide within a standard dovetail groove. The rear sight is also secured with a retaining screw and is adjustable for windage and elevation.
- Both front and rear sights contain white circles (or cylindrical tritium capsules) that appear as dots to the operator. One dot is positioned on either side of the rear sight aperture and in the center of the front sight post. When the sights are properly aligned vertically and horizontally, so are these dots. Thus, the three dots can be used for rapid acquisition of the sights and proper sight alignment.

Adjustment - the battle sight zero of the Mark 23 pistol is easily adjusted by moving or replacing the rear sight.

NOTE

All windage and elevation adjustments ar made using only the rear sight.

- Windage adjustments to adjust the horizontal (left and right) impact of the projectile follow these steps below:
- a. Clear the Pistol!
- Note the index mark on the rear sight and its relationship to the index mark on the slide.
- c. Loosen the rear sight retaining screw using a screw driver.
- d. With a small hammer and brass or soft metal drift punch, drift the sight to the:1) LEFT to move the point of impact to the
- RIGHT to move the point of impact to the right.
- The amount of movement will depend on the individual shooter and the ammunition used.

NOTE

Always strike the sight on the sight base, no on the sight blades.

- e. Retighten the rear sight retaining screw.
- f. Confirm your battlesight zero by firing the pistol again.
- Elevation Adjustments -To adjust the vertical (up and down) impact of the projectile follow these steps below:

a Clear the pistol!

- Determine the amount of vertical change, in inches, that is required at 25 meters. Note the index mark on the rear sight and its relationship to the index mark on the slide.
- c. Loosen and remove the rear sight retaining screw using a screw driver.d. With a small hammer and brass or soft
- metal drift punch, drift the sight completely out of either side of the dovetail groove.
 e. Note the marking on the bottom of the rear sight. (The standard sight is unmarked),
- f. Select a higher or lower rear sight from

Figure 14.

- g. Using the brass or soft metal punch and hammer, install the new sight into the dovetail groove.
- h. Align the index marks of the rear sight and slide as noted in step b above.
- Reinstall and tighten the rear sight retaining screw.
- j. Confirm your battle sight zero by firing the pistol again.
- Rear Sight Selection The rear sight is marked with -6, -4, -2, unmarked, +2, +4, or +6.
 This marking represents the amount of vertical change, in inches, that occurs when that sight is exchanged with the sight originally installed in the pistol.
- 1) To RAISE the point of impact, install a higher rear sight.
- To LOWER the point of impact, install a lower sight.

Example: The pistol is shooting 4 inches high at 25 meters. We want the pistol to shoot dead-on (point of aim, point of impact). The rear sight

removed from the pistol is unmarked (standard).

1) Figure 25 shows that the rear sight marked -4 would lower the point of impact two increments, or a total of 4 inches, from the standard unmarked rear sight removed from the pistol.

2) The -4 sight would be the correct one to install. Obtain the exchangeable rear sight from the kit delivered with the

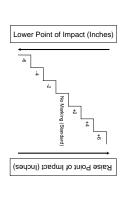


Figure 14

C. Zeroing

 The battlesight zero of the Mark 23 pistol is set by the manufacturer using +P 185 grain JHP ammunition. The pistol is fired from a machine rest at a target positioned 25 meters from the

pistol. The pistol is zeroed point of aim, point of impact (POA/POI). This means the impact of the projectile on target will coincide with the point of aim of the sights at 25 meters.

 Each individual operator of the Mark 23 pistol can battlesight zero their pistol to their unique shooting style by adjusting the sights in accordance with the procedures in subparagraphs 1 - 3 above.

SECTION IV - TROUBLESHOOTING PROCEDURES

3.11 Operator Troubleshooting Procedures

PROBLEM	SYMPTOM/CAUSE	REMEDY
1. Round does not feed	Fouled magazine or pistol	Clean and lube pistol and magazine
	Improperly assembled	Assemble correctly
	Incorrect loading procedure used	Load pistol in accordance with instructions in operator's manual
	Unserviceable magazine	Replace magazine
2. Round does not chamber	Dirty or damaged magazine	Clean and lube or replace magazine
	Obstruction present in chamber and/or bore	Remove obstruction, clean and lube chamber/bore
	Bent or damaged recoil spring, buffer spring, or guide rod. Buffer spring retainer roll pin drift. *	Return pistol to the HK Service Department for service

* NOTE

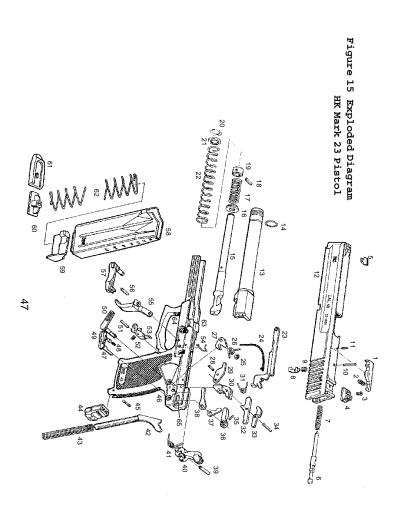
Always inspect the buffer spring retainer roll pin for drift. If not firmly seated and centered in the guide rod, return to the HK Service Department for replacement.

PROBLEM	SYMPTOM/CAUSE	REMEDY
Slide does not lock fully forward	Fouled barrel locking block or slide	Clean and lube barrel locking block and slide
	Dry component parts or pistol	Lubricate pistol in accordance with instructions in operator's manual
	Damaged or burred slide, barrel locking block, or recoil/buffer spring assembly. Buffer spring retainer roll pin drift. *	Return pistol to the HK Service Department for service
4. Pistol does not fire	Faulty ammunition	Replace ammunition
	Little or no sign of firing pin strike (indent) on primer	Return pistol to the HK Service Department for service
5. Slide does not unlock	Faulty ammunition, determined by short recoil	Check bore for obstruction and replace ammunition
	Check for broken or damaged slide, barrel locking block or recoil/buffer spring assembly. Buffer spring retainer roll pin drift. *	Return pistol to the HK Service Department for service

PROBLEM	SYMPTOM/CAUSE	REMEDY
6. Cartridge does not extract Fouled chamber	Fouled chamber	Clean and lube
	Ruptured cartridge case in chamber Remove ruptured case, clean and lube chamber	Remove ruptured case, clean and luchamber
	Fouled or corroded ammunition	Replace ammunition
	Pitted or damaged chamber	Return pistol to the HK Service Department for service
	Broken or damaged extractor or extractor spring	Return pistol to the HK Service Department for service
 Operating controls do not function as described in operator's manual 	Damaged or improperly assembled component parts	Return pistol to the HK Service Department for service
8. Accuracy degradation	Damaged or missing O-ring	Replace O-ring

3.12 Parts Listing for Mark 23 Pistol Part No. Position No. Item Description

Position No.	Item Description	Part No.	Position No.	Item Description	Part No.
_	extractor	215707	35	roll pin (right safety lever)	986430
2	extractor spring	215708	36	right safety lever	215744
ω	rear sight retaining screw	215711	37	sear block	21575
4	rear sight, 6.3mm standard (unmarked)	215770	38	decocking lockout	215745
	rear sight, 5.5mm (-4)*	215767	39	hammer axle	215738
	rear sight, 5.9mm (-2)*	215768	40	hammer, complete	215772
	rear sight, 6.7mm (+2)*	215771	41	hammer rebound spring	215739
	rear sight, 7.1mm (+4)*	215774	42	hammer strut	215740
	rear sight, 7.5mm (+6)*	215783	43	hammer strut spring	21574
σı	front sight	215721	44	insert	21573
တ	firing pin	215705	45	locking bolt	215732
7	firing pin spring	215706	46	frame	215976
00	firing pin block	215709	47	safety detent	215746
9	firing pin block spring	215710	48	safety detent spring	215747
10	firing pin retaining pin	986432	49	left safety lever	215769
1	extractor pin	986432	50	decocking lever	215766
12	slide	215667	51	magazine release pin	986432
13	barrel	215671	52	magazine release spring	215737
14	O-ring	986429	53	magazine release	215775
15	recoil spring guide rod	215724	54	slide release spring	215733
16	recoil spring retainer	215725	55	trigger	215735
17	buffer spring	215726	56	trigger pin	215736
18	dual roll pin (buffer spring retainer)	986433	57	slide release lever, complete	215763
19	buffer spring retainer	215727	58	magazine housing (12-rd magazine)	215778
20	spring ring	929191	58A	magazine housing (10-rd magazine)*	215672
21	washer	215728	59	follower (10 & 12-rd magazine)	215779
22	recoil spring	215729	60	locking plate (12-rd magazine)	21578
23	trigger bar, complete	215760	60A	locking plate (10-rd magazine)*	214853
24	trigger bar spring	215734	61	floor plate (12-rd magazine)	215780
25	c-clip (decocker)	927062	61A	floor plate (10-rd magazine)*	215673
26	decocking spring	214743	62	magazine spring (12-rd magazine)	215782
27	decocker	215742	62A	magazine spring (10-rd magazine)*	21482
28	roll pin (ejector)	986431	63	locking insert (molded into frame)	
29	ejector	215752	64	trigger guard insert (molded into frame)	
30	sear	215748	65	guiding part (molded into frame)	
31	sear spring	215749		magazine (12-rd with LE markings), complete*	215668
32	sear actuator	215750		magazine (10-rd), complete*	215670
33	disconnector	215751			
34	sear axle	215753	*not pictured		



CHAPTER 4- AMMUNITION

The Mark 23 pistol was designed to operate best using two types of .45 ACP caliber ammunition. They are:

A. M1911 230 grain Ball

B. Commercially Manufactured 185 grain +P Jacketed Hollow Point (JHP)

could result in damage to the pistol and/or The use of incorrect ammunition in the pistol injury to the operator or bystanders

> pressure of the cartridge above safe limits). sources of heat could raise the chamber exposed to direct sunlight or heat. (Exposure to possible before use and cool down ammunition WARNING

should occur because of, or as a result of, the sponsibilities for any damage or injury that Heckler & Koch specifically disclaims any renally chambered for. other than those for which the pistol was origi-(hand loaded) ammunition, or of cartridges use of faulty, remanufactured, or reloaded

WARNING

DO NOT USE

- Reloaded, remanufactured, or military surplus (foreign or outdated) ammunition
- Ammunition loaded in aluminum cartridge cases
- Cracked, split, dirty or corroded cases
- Ammunition assembled with projectile damaged and/or propellent Ammunition assembled with corrosive primer
- Ammunition exposed to oil, grease, water, or or pushed into cartridge case past crimp direct sunlight. Remove contaminants if

NOTE

questions, please contact your HK dealer or Services Department. concerning this manual to HK's Creative suggested changes or improvements Service Department. Please address any telephone the Heckler & Koch Customer If after reviewing this manual you still have