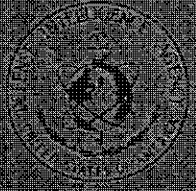
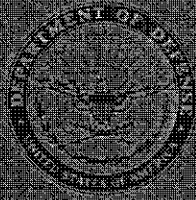


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## SMALL ARMS IDENTIFICATION AND OPERATION GUIDE— FREE WORLD

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PREPARED BY  
US ARMY

ARMY MATERIEL DEVELOPMENT AND READINESS COMMAND  
FOREIGN SCIENCE AND TECHNOLOGY CENTER

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SMALL ARMS IDENTIFICATION AND OPERATION  
GUIDE--FREE WORLD

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## PREFACE

This guide is intended to provide information on the identification, physical characteristics, operation and functioning, user maintenance, accessories, and ammunition of free world small arms. No attempt has been made to provide instruction for complete maintenance and repair.

This fourth edition differs from the August 1973 edition (ST-HB-07-163-74) in that it adds information on weapons not covered in earlier editions, and adds additional weapons used by second-line units, militia, and police.\* This guide does not provide information on US small arms or small arms of Communist origin. The latter weapons are covered in DST-1110H-394-76, *Small Arms Identification and Operation Guide—Eurasian Communist Countries*.

This guide covers, in order, pistols, submachineguns, rifles, and machineguns. Individual sections provide information on specific weapon models: general information, technical data, operation of the weapon, disassembly and assembly, and functioning of the mechanism and accessories normally used with the basic weapon.

The disassembly and assembly procedures described are limited to those operations required by the user to maintain the weapon properly. Detailed or complete disassembly should not be undertaken because of the danger of lost or broken parts, which would render the weapon unuseable. Major parts (such as bolts and trigger mechanisms) should not be interchanged between weapons; these parts are usually numbered to specific weapons, and their use in other weapons could cause malfunctions.

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\*Pages requiring no changes are reprinted and therefore bear the previous short title and date. Amended and new pages bear the current short title and date.

5 September 1980

Unless otherwise specified, the weapons covered herein should be cleaned and lubricated with the same materials and techniques used for standard US small arms. Special care should be taken to remove the firing residue from the components of the gas mechanism of gas-operated arms.

Many military weapons have "V"-notch rear sights and post front sights. The correct sight picture with this type of sight is identical with that used for the US Pistol, Caliber 45 M1911A1. The front sight is centered in the notch with the top of the front sight level with the top of the rear sight. This sight picture is held at the point where it is desired that the bullet strike. To zero a weapon's sights, move them so that the relative motion of the rear sight is in the same direction as it is desired to move the strike of the bullet. Practical range, as used in this publication, is defined by FSTC as that range at which the average trained rifleman can be expected to hit a man-sized target with approximately 50% of his shots.

Constructive criticisms, comments, or suggested changes are encouraged and should be forwarded to the Defense Intelligence Agency, Washington, DC 20301 (ATTN: DT).

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## SMALL ARMS IDENTIFICATION AND OPERATION GUIDE—FREE WORLD

### SECTION I. PISTOLS

#### A. THE 9-MM PISTOLE P1 (WEST GERMANY)

##### 1. General

a. The 9-mm Pistole P1 (fig 1) is the standard side arm of the West German Army. Commercial versions are used by other armies. The P1, descended from the World War II vintage German P-38, differs from the older pistol in its lightweight dural receiver and redesigned firing pin. The latter is not interchangeable with the older P-38 firing pin. The P1 and its civilian version, the P-38, both bear identical manufacturers' markings on the slide: the word "Walther" enclosed in a banner followed by the legend "Carl Walther Waffenfabrik Ulm/Do." Below this a second line reads "P1 Cal 9-mm" for West German Army weapons, or "P-38 Cal 9-mm" for commercial weapons. World War II vintage P-38's carry a code symbol such as "ac", "byf", "cyq", or "svw" with a two-digit date on the slide.



Figure 1. 9-mm P1 pistole.

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b. The P1 is an eight-shot, semiautomatic, recoil-operated weapon fed from a detachable box magazine. This pistol has a double-action trigger mechanism that, in addition to conventional functioning, allows the hammer to be cocked and released by a single long pull on the trigger. The P1 fires the 9x19-mm pistol cartridge (sec V).

**2. Technical Data**

Technical data concerning the Pistole P1 are given in table I.

**3. Operation**

a. Remove the magazine by pressing the magazine catch (fig 1) rearward, away from the magazine, and withdrawing the magazine. If open, the slide can be closed either by pulling it slightly rearward and releasing it, or by pressing the slide stop (fig 1) downward.

b. Load the magazine by placing a cartridge on the magazine follower just forward of the feed lips; press the cartridge down and slide it to the rear, under the feed lips, until it seats against the rear wall of the magazine. Repeat this action until the magazine is full.

c. Insert the magazine into the pistol until the magazine catch (fig 1) snaps into place.

d. Grasp the slide by its serrations and pull it fully rearward. Release the slide, and it will run forward and load the first cartridge. CAUTION: The pistol is now ready to fire. A small pin (fig 3) protrudes from the slide, above the hammer, to indicate that the pistol has a cartridge in its chamber.

e. If desired, set the pistol on safe by rotating the safety lever (fig 1) downward as far as possible. If the hammer is cocked, it will snap forward, but the pistol will not fire.

f. To fire the weapon, rotate the safety upward until its lever is horizontal. The hammer can be manually cocked by pressing it rearward by thumb pressure or, when the pistol is aimed, the trigger can be pressed through its full travel. (The first method is preferred because of the greater accuracy of fire.) Using a conventional sight picture, aim and press the trigger for each shot. The slide will remain open when the last round is fired. Remove the magazine (a above).

g. To clear the pistol, set it on safe (e above), remove the magazine, and retract the slide. Press the slide stop upward and release the slide; it will be held open. Inspect to insure that no cartridges are present. Press down the slide stop and insert the magazine.

#### 4. Disassembly and Assembly

To disassemble the P1 for cleaning, and to reassemble it, the following steps must be taken:

a. Clear the weapon (para 3g), but do not insert the magazine. Leave the safety lever set on safe. Retract the slide, and lock it to the rear with the slide stop (para 3g). Rotate the takedown lever (fig 1) downward. Pull the slide slightly rearward (to release the slide stop); then ease it forward. The hammer will fall as the slide aligns with the receiver; continue to move the slide forward until both it and the barrel are free of the receiver.

b. Invert the slide and barrel. Press in on the unlocking plunger (fig 2) to unlock the barrel from the slide and push the barrel forward, out of the slide.

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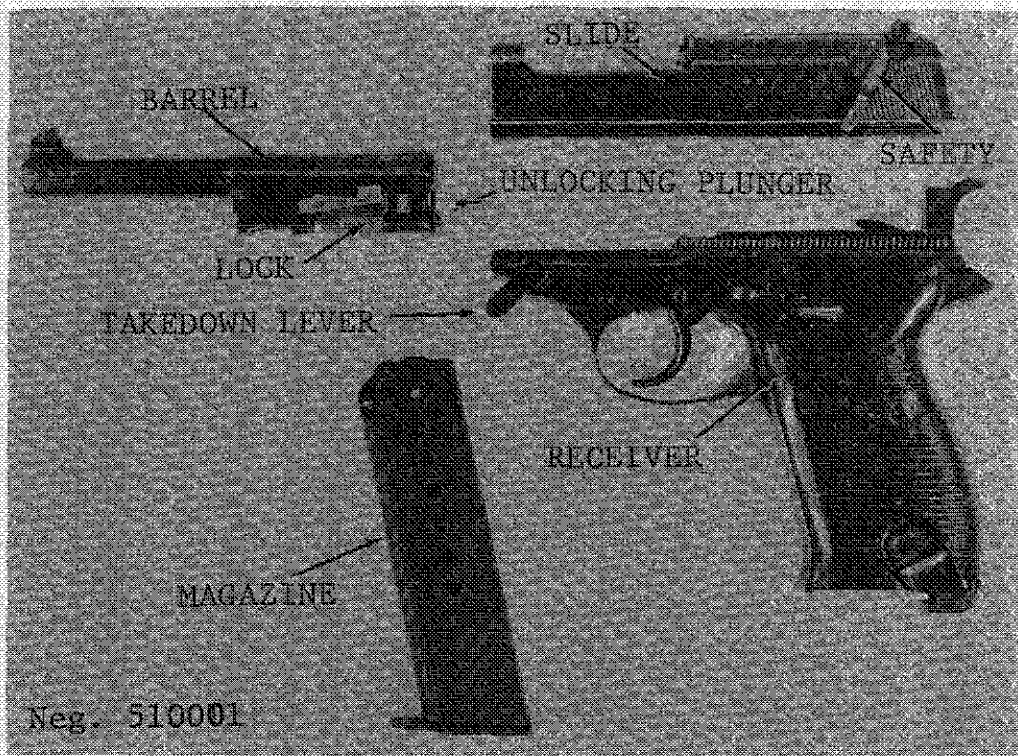


Figure 2. P1 pistol, disassembled.

- c. No further disassembly is necessary nor desirable.
- d. To reassemble the pistol, insert the barrel into the inverted slide; when the barrel is seated against the slide face, press the lock (fig 2) down.
- e. Be sure that the hammer is uncocked, that the ejector is pushed forward into the magazine well, and that the takedown lever is rotated fully forward.
- f. Turn the slide so that the sights are up and join the slide to the receiver. Pull the slide fully rearward and hold it there with the slide stop. Rotate the takedown lever back to its normal position. Release the slide and insert the magazine.

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## 5. Functioning

a. The P1 pistol is recoil operated. The barrel and slide are locked together at the instant of firing; the rearward movement of the barrel (as the result of recoil) unlocks the slide from the barrel and imparts to the slide sufficient inertia to drive it fully rearward against the driving springs. These springs provide the thrust to drive the slide forward and to reload the barrel with another cartridge.

b. If the hammer is in its forward position, finger pressure on the trigger moves the trigger bar (fig 3-14) forward. A hook on the upper rear end of the trigger bar engages the sear (fig 3-15), and as the trigger bar continues forward, the sear rotates upward. The pawl (fig 3-12) on the hammer is lifted by the sear and causes the hammer to rock back. The sear eventually moves far enough forward to release the pawl; when this happens, the hammer, under the force of its spring (fig 3-8), swings forward and strikes the firing pin to fire the pistol. As the slide recoils, it depresses the trigger bar, which then disengages from the sear. The sear spring immediately returns the sear to its original position.

c. As the slide recoils, it rocks the hammer back. A projection on the bottom of the hammer contacts the sear and lifts it up. When the slide counterrecoils and releases the hammer, the projection on the bottom of the hammer is caught by a notch in the bottom of the spring loaded sear (fig 3-15), and the hammer is held cocked.

d. Pressure on the trigger moves the trigger bar (fig 3-14) forward, and a hook on the end of the trigger bar pulls the sear out of engagement with the hammer. The hammer swings forward and strikes the firing pin (fig 3), to fire the cartridge. The recoiling slide depresses the trigger bar out of engagement with the sear, and the action described in paragraph c above starts again.

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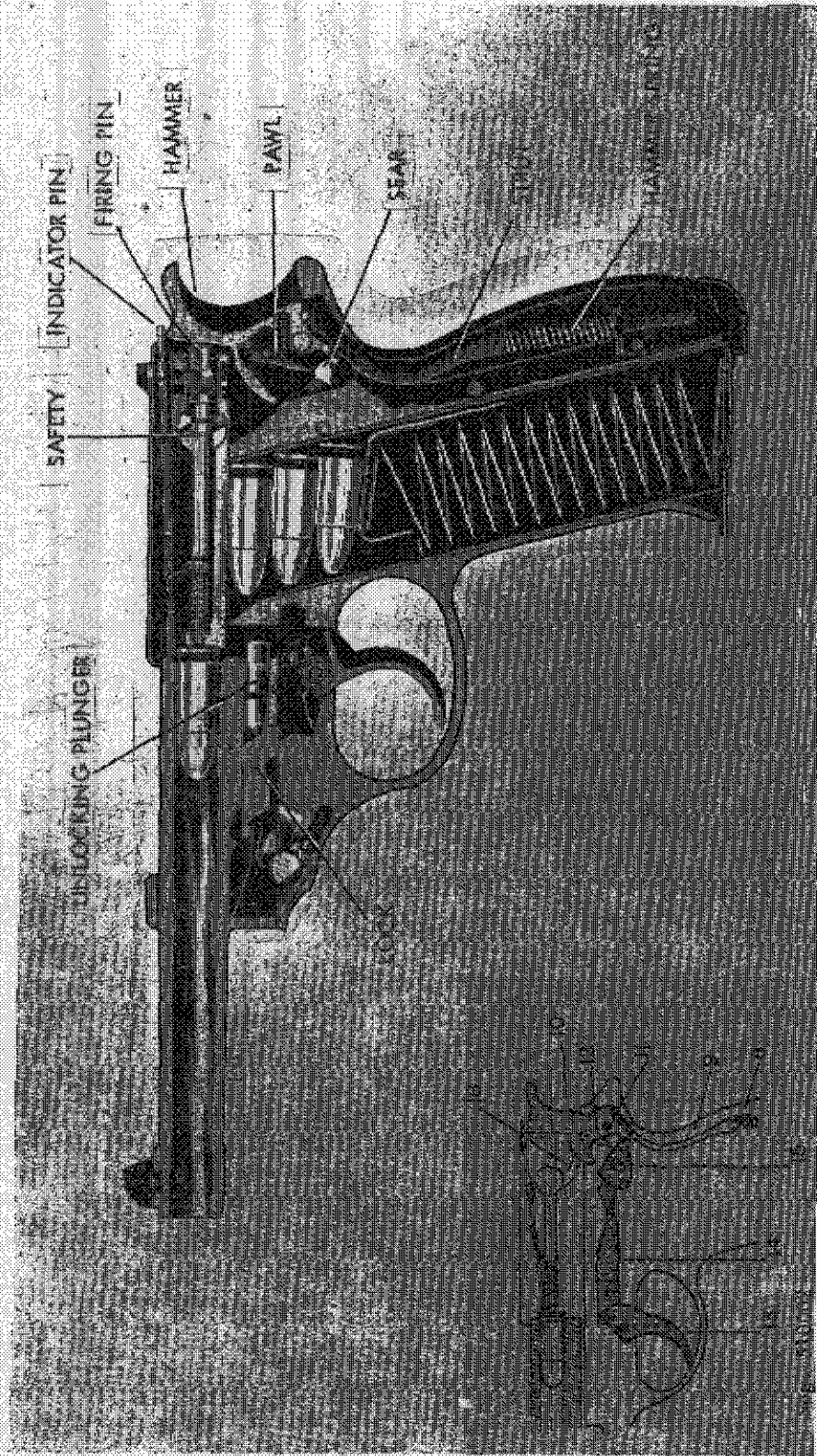


Figure 3. P1 pistol, section.

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e. The barrel is locked to the slide by the lock (fig 3), and together they recoil on the receiver when the pistol fires. As the lock moves rearward, off a shelf in the receiver, the unlocking plunger (fig 3) hits the receiver and stops. The lock moves rearward onto the now stationary unlocking plunger and is cammed down out of engagement with the slide.

f. Because of its inertia, the slide continues rearward and compresses the dual driving springs. The extractor pulls the fired cartridge from the barrel and holds it to the slide until the case strikes the ejector and is expelled. The driving springs force the slide forward and a new cartridge is loaded into the chamber.

g. The barrel is held rearward by the lock, which in turn is held down by ribs inside the slide. When the locking recesses in the slide align with the lock, the barrel is driven forward by the slide and a cam surface lifts the lock, which locks the barrel and slide together.

h. When the safety lever is rotated to the safe position, a cam surface depresses the trip (fig 3-18). The trip forces the sear out of contact with the hammer, and the hammer falls. As it rotates, the safety also interposes a solid block in the path of the firing pin. This prevents the pistol from firing.

i. A ledge on the magazine follower pushes the slide stop upward when the last round is fed from the magazine. The stop then automatically holds the slide open.

## 6. Accessories

A leather holster with a pocket for an extra magazine, a cleaning rod, and a lanyard are usually issued in conjunction with the P1 pistol. Conversion kits to allow the use of 4-mm subcaliber cartridges or to convert the pistol to .22 caliber rimfire cartridges are available for use in training.

