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DEFENSE INTELLIGENCE AGENCY



SMALL ARMS IDENTIFICATION AND OPERATION
GUIDE—EURASIAN COMMUNIST COUNTRIES

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**SMALL ARMS IDENTIFICATION AND OPERATION
GUIDE—EURASIAN COMMUNIST COUNTRIES**

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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 Eurasian Communist small arms. No attempt has been made to provide instruction for complete maintenance and repair.

This third edition differs from the November 1970 edition (FSTC-CW-07-03-70) in that it adds information on standard Communist weapons not covered in earlier editions, provides identification only for relatively low density weapons, and adds those secondary weapons used by second line Communist units, militia and police, or provided to Communist oriented insurgents. This edition also supersedes parts of FSTC-CW-07-1-69, *Secondary Small Arms Identification and Operation Guide—Eurasian Communist Countries*, which is now obsolete.

This guide covers, in order, pistols, submachineguns, assault rifles, rifles, and machineguns. Each basic topic is further subdivided into sections on specific model weapons, which in turn are divided into subsections on general information, technical data, operation of the weapon, disassembly and assembly, functioning of the mechanism, and accessories normally used with the basic weapon.

The cutoff date of information in this publication is April 1973.

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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 unusable. Major parts (i.e., bolts, trigger mechanisms, and the like) should not be interchanged between weapons; these parts are usually numbered to specific weapons, and their use in other weapons could cause malfunctions.

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.

Most Communist weapons have "V" notch rear sights and post front sights. The correct sight picture with this type 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 body. This sight picture is held at the point where it is desired that the bullet strike.

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Section I. PISTOLS

A. THE 9-MM MAKAROV PISTOL (PM)

1. General

The Makarov pistol is the standard sidearm of most major Eurasian Communist armies. It is known to be produced in the Soviet Union, East Germany, and the People's Republic of China (PRC). The Soviet version, the PM (Pistolet Makarov), can be identified by its lanyard loop and the encircled star cast into the grips (fig 1). The East German Pistole M has plain grips and no lanyard loop (fig 2). The PRC version, the Type 59 pistol, has "59 SHI" stamped on its receiver. The Makarov is an eight-shot, semiautomatic, blowback-operated, magazine-fed pistol fitted with a double-action trigger mechanism. In addition to conventional functioning, this mechanism also allows the hammer—to be uncocked—to be cocked and released by a single long pull on the trigger. The Makarov fires the 9x18-mm pistol cartridge (sec VI).

2. Technical Data

Technical data concerning the Makarov pistol will be found in table II.

3. Operation

The Makarov is operated like most conventional pistols.

a. 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 until the magazine is full.

b. Insert the magazine into the pistol so that the magazine catch (fig 1) retains the magazine.

c. Rotate the safety (fig 1) downward; grasp the slide by its milled grooves and pull it fully rearward against spring tension. Release the slide; it will return forward, loading the pistol.

CAUTION: The pistol is now ready to fire!

d. If desired, set the pistol on safe by rotating the safety upward until the red dot (fig 1) on the slide is covered. The hammer will fall; but because the safety blocks the firing pin, the pistol will not fire.

e. To fire, set the safety to the fire position by rotating it fully downward. The hammer can be manually cocked by pressing it rearward by thumb pressure or, when aiming, by pressing the trigger through its full arc. (The first method is preferred.) Use a conventional sight picture for aiming, and press and release the trigger for each shot. The slide will remain open when the last round is fired.

f. Remove the magazine by pressing the magazine catch away from the magazine and withdrawing the magazine. To close the slide, if open, press down on the slide stop (fig 1); or remove the magazine and pull the slide slightly rearward, then release it.

g. To clear the pistol, set it on safe, remove the magazine, reset the safety to the fire position, and retract the slide. Inspect the chamber through the ejection port in the slide to insure that no cartridges are present. Release the slide, reset the safety on safe, and insert the magazine.

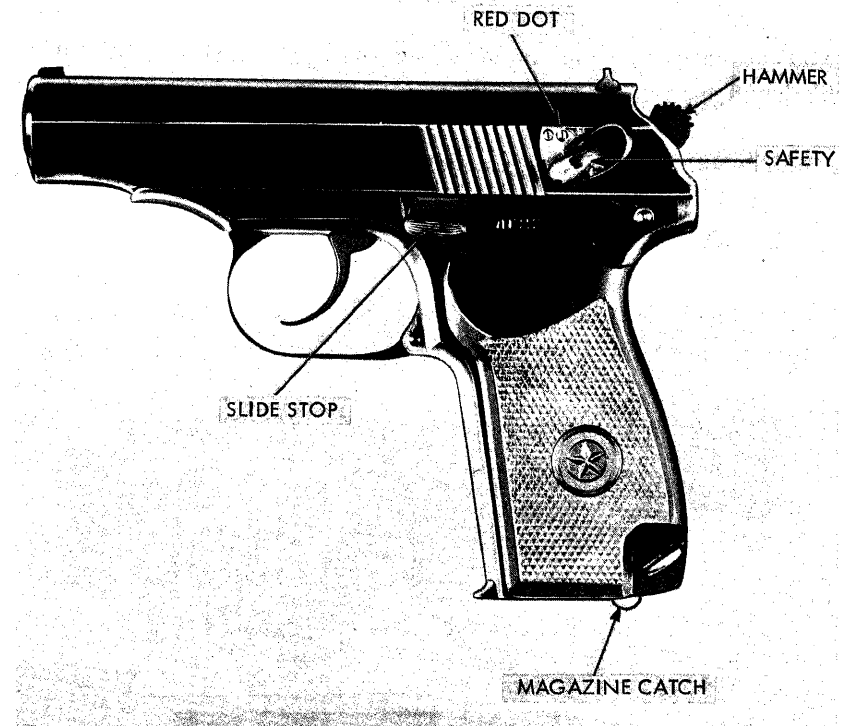


Figure 1. Soviet Makarov pistol (PM).

4. Disassembly and Assembly

a. To disassemble the Makarov pistol for cleaning:

(1) Clear the weapon (para 3g), but do not insert the magazine or set safety on safe.

(2) Pull the front of the trigger guard down and, when it is clear of the receiver, press it to one side; then rest it against the receiver (fig 3).

(3) Grasp the slide by its milled grooves, pull it fully rearward, and lift its rear end up, out of engagement with the

receiver. Ease the slide forward over the barrel until it is free. Pull the driving spring off the barrel.

(4) No further disassembly is necessary or desirable.

b. To reassemble the Makarov pistol:

(1) Insure that the hammer is cocked, that the safety is in the fire position, and that the trigger guard is in the disassembly position



Figure 2. East German Pistole M.

position (para 4a(2), above). Slide the driving spring over the barrel, small end first.

(2) Insert the end of the recoil spring into the circular front section of the slide, and slip the barrel through the hole in

the slide. Pull the slide fully rearward, press it down into position on the receiver, and allow the driving spring to drive the slide forward.

(3) Disengage the trigger guard from the receiver and let it return to its normal position. Insert the magazine.

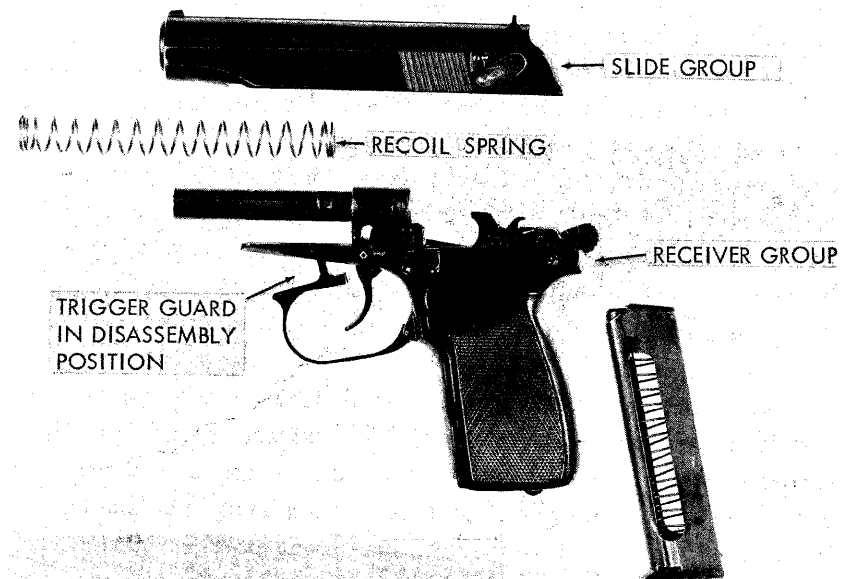


Figure 3. Makarov pistol, field stripped.

5. Functioning

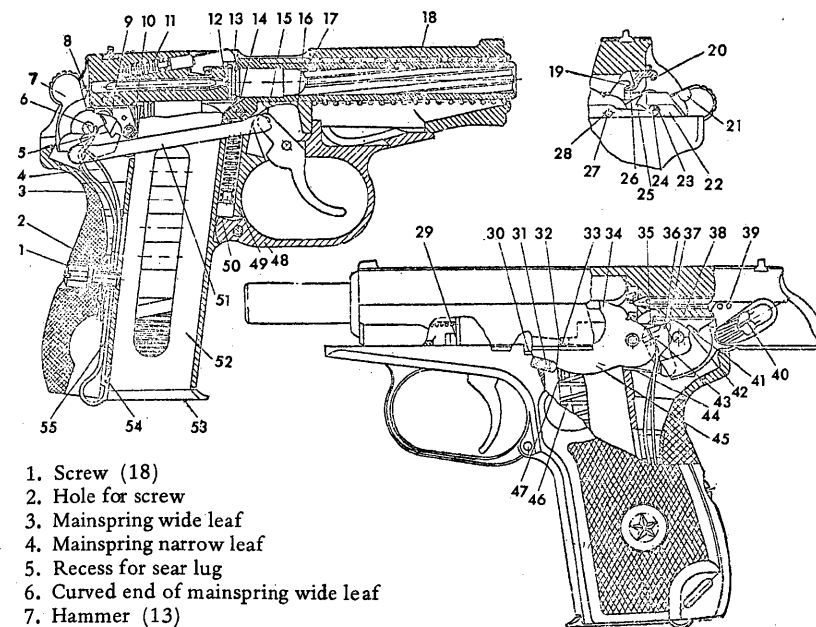
a. The Makarov pistol is blowback operated; i.e., the gas pressure that drives the bullet down the barrel also, by driving the cartridge case against the slide, provides the power to impel the slide rearward. A strong driving spring is compressed during the rearward movement; this spring provides the thrust to drive the

slide forward. The pressure of the driving spring and the great weight and inertia of the slide, as contrasted to the lesser weight bullet, causes the slide to remain closed until the bullet has left the barrel and the gas pressure has dropped to safe limits.

b. If the hammer is in its forward position, finger pressure on the trigger moves the trigger bar forward; this causes the pivoting cocking lever to engage a notch (37, fig 4) in the hammer. As the forward motion of the trigger bar continues, the cocking lever makes the hammer rotate rearward on its pin against the main spring (4, fig 4) until the angle between the hammer and the cocking lever changes enough to cam the cocking lever out of engagement. As this happens, the cocking lever lifts the sear (36, fig 4) out of engagement with the hammer. The hammer, powered by the hammer spring, swings forward and strikes the firing pin, which fires the cartridge.

c. The gas pressure generated upon firing thrusts the cartridge case and slide rearward. The extractor holds the fired cartridge case against the slide until the case strikes the ejector; the case then pivots around the extractor and is expelled. Finally, the lower rear section of the cylindrical front portion of the slide strikes the projection of the trigger guard that extends into the receiver, and all rearward motion stops. The driving spring now expands and drives the slide forward. The feed rib of the slide drives the top cartridge from the magazine and into the chamber; the extractor, under pressure of its spring, snaps into position over the cartridge rim.

d. As the slide starts to recoil after firing, a cam surface on the rear of the feed rib forces the cocking lever sideward out of engagement with the sear. The sear spring then snaps the sear against the hammer. When the recoiling slide forces the hammer



1. Screw (18)
2. Hole for screw
3. Mainspring wide leaf
4. Mainspring narrow leaf
5. Recess for sear lug
6. Curved end of mainspring wide leaf
7. Hammer (13)
8. Safety lug
9. Sear lug
10. Sear spring (11)
11. Extractor spring (26)
12. Firing pin strikes
13. Extractor hook
14. Bullet guide of barrel
15. Trigger upper end
16. Receiver curved slot
17. Recoil spring turn (of less diameter)
18. Recoil spring (12)
19. Sear tooth
20. Hook for locking hammer
21. Recess on hammer head
22. Slide guiding slot
23. Trunnion seat for hammer trunnion
24. Hammer trunnion
25. Hammer rebound tooth
26. Shoulder of safety recess
27. Sear trunnion
28. Trunnion seat for sear trunnion
29. Recess on trigger guard lug
30. Slide stop recess
31. Slide stop catch knob
32. Slide stop lug
33. Slide tooth
34. Slide stop ejector
35. Disconnecting lug of cocking lever
36. Sear (15)
37. Hammer cocking notch
38. Slide rib
39. Recess for safety thumb catch
40. Safety thumb catch (27)
41. Lug for locking hammer
42. Hammer safety notch
43. Rebound lug of cocking lever
44. Shoulder for trigger bar
45. Slide stop (14)
46. Follower spring (29)
47. Follower claw
48. Trigger guard (3)
49. Trigger guard spring (6)
50. Trigger guard lug
51. Trigger bar (10)
52. Magazine body (30)
53. Follower spring bent end
54. Lug for magazine catch
55. Mainspring lower end

Figure 4. Makarov pistol section.

