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INTRODUCTION

REMEMBER THAT ANY PRODUCT, WHICH IS STRUCTURALLY SIMILAR TO AIR GUNS, MAY BE **DANGEROUS** TO PEOPLE'S LIFE AND HEALTH IF CARELESSLY HANDLED AND USED. STUDY AND FOLLOW THE INSTRUCTIONS ON USE OF THE PISTOL CONTAINED IN THE SECTIONS OF THIS INSTRUCTION MANUAL (HEREINAFTER IM).

IM is intended for studying the arrangement of the MP-53M Air Pistol and the rules of its operation.

Since the pistol design is constantly refined to improve its reliability and performance, its specifications are subject to change without special notice in this IM version.

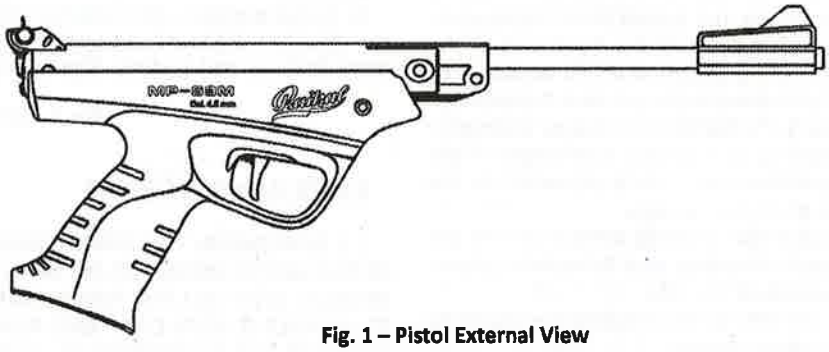


Fig. 1 – Pistol External View

1 DESCRIPTION AND OPERATION

1.1 INTENDED USE

The MP- 53M Air Pistol (a product, which is structurally similar to air guns) (Fig. 1) is intended for training shooting with 4.5 mm pellets compatible with air guns at an ambient temperature of 272 K (minus 1 °C) to 323 K (+50 °C).

1.2 DESIGN AND PRINCIPLE OF OPERATION

1.2.1 The pistol design is simple and reliable. The scheme of pistol mechanisms is shown in Fig. A.1.

1.2.2 The pistol is cocked by turning the barrel which can be locked in intermediate positions.

1.2.3 The pellet flies out of the barrel bore under the action of air being compressed in the cylinder by means of the fast-moving piston which is actuated by the preliminary compressed mainspring.

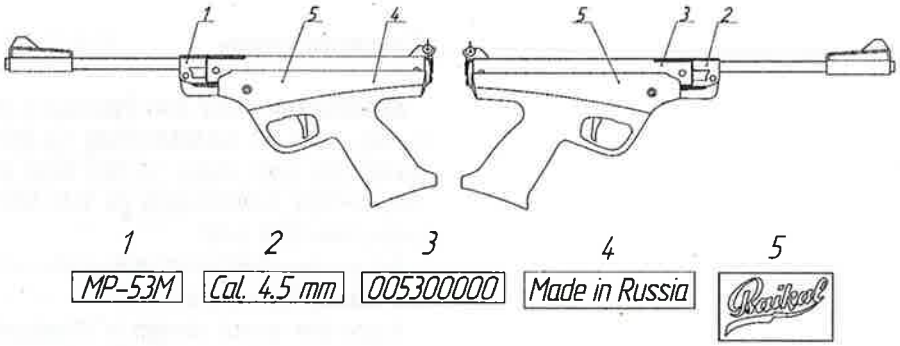
1.2.4 The barrel with receiver is securely locked by the locking mechanism. Tight barrel-to-receiver fit is provided by the seal of original design.

1.2.5 The sighting device can be adjusted in vertical and horizontal planes (item 4.6 of this IM).

1.2.6 Safe pistol handling is ensured by the safety devices.

1.3 MARKING

Marking of the pistol is carried out at the spots indicated in Fig. 2.



1. Name of the model.
2. Caliber.
3. Serial number (the first two digits are two last digits of the year of pistol manufacture and testing, the next two "53" are the pistol model, the last digits are the order number).
4. Country of manufacture.
5. Trademark of the manufacturer (JSC "Izhevsky Mekhanichesky Zavod").

Fig. 2 – MP-53M Marking

2 SAFE HANDLING RULES

2.1 REMEMBER: THE MAIN OBJECTIVE OF THE SAFETY MEASURES SET UP IN THIS MANUAL IS TO CALL THE PISTOL OWNERS TO HANDLE IT WITH CARE AND REMEMBER THAT THE RESPONSIBILITY FOR THE USE OF THE PISTOL LIES ON THOSE WHO OWN AND USE IT.

2.2 WARNING! When choosing the direction of fire, keep in mind that the pistol is dangerous at a distance within 100 m.

2.3 For shooting, use pellets intended for air guns only (item 1.1 of this IM).

2.4 ALWAYS TREAT YOUR PISTOL AS IF IT IS LOADED AND READY TO FIRE.

2.5 ALWAYS carry or store your pistol unloaded.

Before performing any operations on the pistol (disassembly, cleaning, lubrication), you MUST check to make sure the pistol is unloaded.

When receiving a pistol from another person, NEVER accept the word that the pistol is unloaded.

2.6 Even if the pistol is unloaded, NEVER point it at people. When shooting, hold the pistol at arm's length. When loading, unloading, maintaining, or cleaning, always be sure the barrel is pointed in a safe direction and ALWAYS keep your finger OFF the trigger.

2.7 NEVER turn the pistol muzzle end at yourself. NEVER put your hand over the muzzle.



Fig. 3

2.8 DO NOT alter or modify your pistol. Do not try to change the trigger pull, remove the safety or any internal safety device as it may cause accidental firing.

3 OPERATIONAL PROCEDURE

3.1 WARNING! BEFORE USING A NEW PISTOL, REMOVE FACTORY RUST-PREVENTIVE LUBRICANTS FROM IT AND THEN COVER ITS MOVABLE AND FRICTION PARTS WITH A THIN COAT OF A GUN OIL, THE BARREL BORE SHOULD BE CLEANED AND WIPED DRY.

3.2 BEFORE SHOOTING:

- Grasp the pistol grip with one hand and with the other hand apply pressure on the front sight base to open the barrel.
- Turn the barrel around the pin to its extreme rearward position against the mainspring force. You will cock the piston

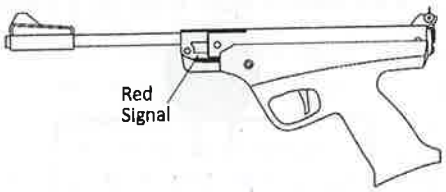


Fig. 4

(the white signal is shown on the barrel band, which means that the safety is in the "safe" (ON) position, Fig. 3).

- Insert a pellet into the barrel bore.
- Turn the barrel around the pin until it locks in its initial position (the red signal is shown on the barrel band, which means that the safety is in the "fire" (OFF) position, Fig. 4).

3.3 Fire a shot.

3.4 In case of a delayed shot, open the barrel and, to set the pistol in the "safe" position, turn it around the pin and fix at the end of its travel.

3.5 AFTER SHOOTING, make sure that the pistol is unloaded. If there is a pellet left in the barrel, fire a shot at the target.

4 MAINTENANCE

4.1 DISASSEMBLE THE PISTOL for maintenance or repair procedures only. Disassembling procedure for the pistol is as follows (Fig. A.1):

- Remove the grip screws and detach the grip 15.
- Detach the butt plate 13 together with the sight 2. Perform this operation on a desk. Set the pistol in the vertical position and while resting its butt plate on the desk with one hand, drift out the pin 14 with

the other hand. WHEN DOING IT, BE VERY CAREFUL AS THE BUTT PLATE IS UNDER ACTION OF A COMPRESSED SPRING ACTION AND CAN MOVE VERY FAST AT THE MOMENT OF DETACHMENT.

- Remove the mainspring 34.
- Detach the sear 37, trigger sear 36 and the trigger 18, but first, drift out their pins.
- Drift out the pin 22, to separate it from the cocking lever, move the cocking lever to its rear position.
- Remove the piston assembly.
- Turn the barrel 1 around the barrel pin 30 at an angle and remove the barrel pin 30.
- Detach the barrel 1 with the hinge 25 from the receiver 38.
- Drift out the latch pin 31, remove the latch 24 and latch spring 26.

4.2 REASSEMBLE THE PISTOL in the reverse order.

WARNING! When reassembling, take care not to damage the piston cup 33 by the slot in the receiver 38.

4.3 If in shooting an air leakage is detected between the breech and the receiver 38, turn over the barrel gasket 32 inside its seat (so that the front end faces inward).

4.4 Every 500-1000 shots tighten the grip screws and the barrel pin 30. If the barrel pin 30 or its nut becomes very loose, exchange their places by inserting the pin head in the seat where the nut has been placed initially.

4.5 CLEANING AND LUBRICATION

4.5.1 Every 1500-2000 shots, lubricate all parts of the trigger mechanism and barrel locking unit with any grease.

Lubricate the piston, piston cup, and the cylinder, wherein the piston and piston cup move, with the RZh gun oil (РЖ ТУ 38.1011315-90).

Clean the barrel bore every 500-1000 shots.

4.5.2 Before storing, cover all surfaces of pistol metal parts with a thin coat of a gun lubricant.

4.6 This pistol has been test-fired at the distance of 10 m to check the allowance for adjustment of the sighting device based on firing results.

IF IT IS REQUIRED TO ZERO THE PISTOL, perform this operation in the following order.

4.6.1 Draw a black circle on a white sheet of paper and aim the pistol at this target as shown in Fig. 5. Fire several shots.

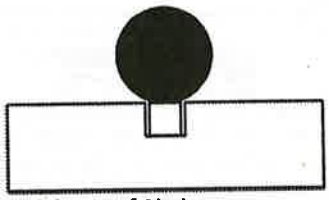


Fig. 5 – Scheme of Aiming



Fig. 6

4.6.2 FOR HORIZONTAL SIGHT ADJUSTMENT:

- Turn the adjustment screw 8 (Fig. A.1) counterclockwise to shift the rear sight blade 7 (Fig. A.1) to the left if hits are on the right of the black circle.
- If hits are on the left of the black circle, shift the rear sight blade to the right by turning the screw clockwise.

4.6.3 FOR VERTICAL SIGHT ADJUSTMENT, turn the knurled nut 20 (Fig. A.1). Right-hand turning (direction of the arrow U, Fig. 6) elevates the rear sight. Left-hand turning (Fig. 6) lowers the rear sight. If the nut fails to turn easily, apply pressure on the top of the sight in the direction of the arrow D (Fig. 6).

5 STORAGE

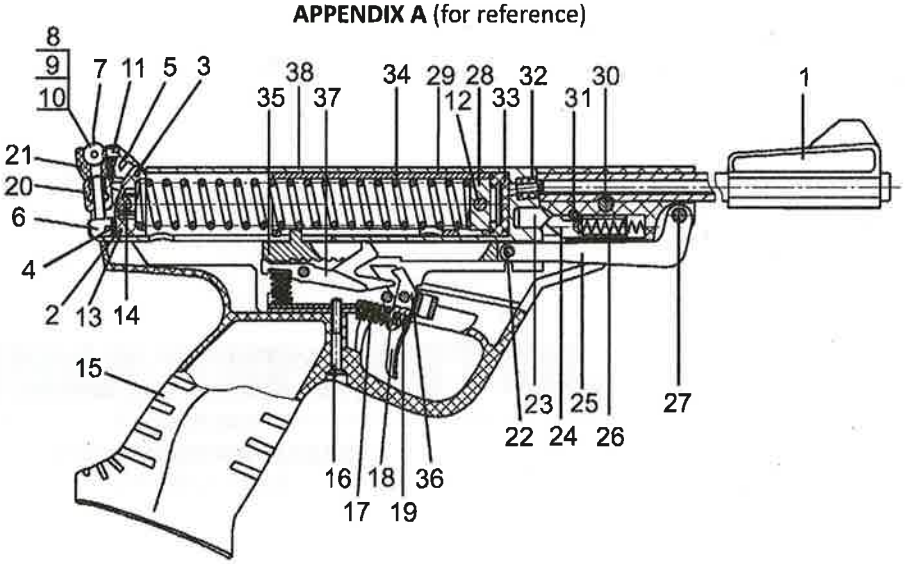
The storage period for the pistol kept in the intact factory packing is 24 months from the date of preservation given by the manufacturer (the date is set according to the item 2.3 of the attached Technical Passport). Upon expiration of the above period, the pistol must be represerved.

Store the pistol in air-ventilated storerooms without artificially regulated climate conditions (like stone, concrete, or thermally insulated metal storehouses) where temperature and air humidity vary less than outdoors. Storehouses may be located in any macroclimatic areas including tropical climate regions.

WARNING! When in storing, all surfaces of the metal parts should be covered with a thin coat of a gun oil. To avoid slackening of the mainspring, store the pistol with the piston decocked.

During the storing process, white bloom may appear from hidden pistol surfaces. This bloom can be easily removed with a clean oiled fabric.

APPENDIX A (for reference)



1 – barrel; 2 – sight; 3 – pin; 4 – pin; 5 – sight frame; 6 – elevation screw; 7 – rear sight blade; 8 – screw; 9 – sight spring; 10 – rear sight base; 11 – screw; 12 – piston pin; 13 – butt plate; 14 – pin; 15 – grip; 16 – grip screw; 17 – trigger spring; 18 – trigger; 19 – sear spring; 20 – nut; 21 – trunnion; 22 – pin; 23 – wedge; 24 – latch; 25 – hinge; 26 – latch spring; 27 – hinge pin; 28 – piston head; 29 – tube; 30 – barrel pin; 31 – latch pin; 32 – barrel gasket; 33 – piston cup; 34 – mainspring; 35 – cocking lever; 36 – trigger sear; 37 – sear; 38 – receiver.

Fig A.1 – Scheme of Pistol Mechanisms