

Science Industrial association



of the MIA of Ukraine



**Pistol "Fort-9"
caliber 9 mm kurz**

SIA «Fort» of the MIA of Ukraine
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Operational Manual

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Operational Manual

This operation manual is intended for the learning of the principle of action and rules of operations of pistol "Fort-9" caliber 9 mm kurz (hereinafter - pistol) and contains information about the design, operating procedures, safety requirements, disassembly and assembly rules, maintenance, cleaning, greasing, storage and guarantee statement.

You must always keep in mind that the pistol is a source of higher risk and can become the reason of unpredictable consequences both for shooter and surrounding people.

It always necessary to follow below safety indications to alert risks:

1 Only clean pistol is suitable for shooting.

2 Always handle with the pistol as if it is loaded and ready to shoot.

3 Always direct the barrel in safe direction no matter if pistol is loaded or not.

4 The safety lever must be in position "safe" when the pistol is not used.

5 Clean and grease the pistol after shooting.

Pistol "Fort-9": parts list for figures 1, 2, 3

- 1 frame
- 2 slide
- 3 recoil spring guide
- 4 recoil spring
- 5 slide
- 6 firing-pin plug
- 7 extractor axis
- 8 extractor
- 9 extractor spring
- 10 firing-pin spring
- 11 firing pin
- 12 magazine body
- 13 magazine floor plate
- 14 magazine base
- 15 magazine spring
- 16 pusher
- 17 magazine locking button
- 18 spring of magazine locking button
- 19 trigger
- 20 trigger axis
- 21 trigger spring
- 22 rod
- 23 rod axis
- 24 slide slot
- 25 plate screws
- 26 interrupter
- 27 hammer axis
- 28 pusher
- 29 hammer
- 30 hammer plungers

1.4 Safety measures

Before making any action with pistol, you need learn rules and measures of firing, function principles and maintenance, shown in this manual.

Direct the pistol barrel in safe direction during loading/unloading.

Unload the pistol after end of shooting and before cleaning, disassembling and lubricating.

Do not put you finger at the trigger before aiming on target.

Never keep pistol loaded if you are not going to fire.

Keep the pistol and the ammunition separate in places, that are securely closed and out of reach of other persons.

Pistol must be always clean and lubricate. Follow instructions section 3 of this manual to carry out cleaning and lubricating of the pistol.

1.5 Pistol design

Pistol is a self-loading, single action, intended for single shot firing.

Feeding mechanism is with magazine ammunition feeding.

Breech mechanism is intended for locking and unlocking of bore - free slide is not hooked with the barrel during shot and during returning after shot.

Firing and trigger mechanism is self-cocking action, in which while pressing the trigger firing mechanism is cocked. Firing mechanism, which activate

1 PRODUCT DESCRIPTION

1.1 Function

The pistol "Fort-9" is a personal weapon with accuracy range - 10 m. The wounding power of bullet is to 150 m. The firing from the pistol is made in a single shot mode.

1.2 Technical data

Caliber, mm.....	9 mm kurz
Barrel length, mm.....	77
Accuracy of fire at distance 10 m, not more.....	150
Accuracy of shooting at distance 10 m, not more.....	50
Bullet velocity at distance 1 m, m/s.....	250±20
Deliverable rate of fire, shot/min.....	30
Trigger pull, (H).....	35-55
Magazine capacity, rounds.....	7
Overall sizes of the pistol, mm, not more:	
length.....	147
height.....	114
width.....	27
Weight with an empty magazine, kg, not more.....	0,50

1.3 Scope of supply

The pistol is supplied in such completeness:

pistol	1 pcs
magazine.....	2 pcs
wiper.....	1 pcs
operational manual.....	1 pcs
individual package.....	1 pcs

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- 31 firing spring guide
- 32 firing spring stop
- 33 firing spring
- 34 left plate
- 35 right plate
- 36 slide stop spring

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primer of cartridge, is hammer type.

The appearance and location of the pistol controllers are shown in Figures 1 and 2, and the location of the pistol parts in Figure 3.

Pistol consists of:

- frame, to which a barrel is hardly fastened;
- magazine, which is inserted into frame;
- slide which glides in grooves of the frame;
- recoil spring which is situated under the barrel;
- firing and trigger mechanism of single action, which is situated inside of the frame. It performs shot only self-cocked mode.
- slide stop, that holds the slide in rearmost position after firing the last cartridge from the magazine, and when slide stop lever is pressed down slide set down in the forward position;
- sights – open-type front and rear sight .

1.6 Concept of pistol operation

The loading of pistol is carrying out by pulling slide all the way back and release it. The slide, moving back, presses the recoil spring. In rearmost position the top of slide reaches of back side of the magazine and allows put cartridge to the magazine bends in front of breeching face. During releasing the slide moves forward under the action of the compressed recoil spring, pushing the cartridge from the magazine to the cartridge chamber and in the extreme front position closes the cartridge chamber with chamber inside by breeching face. The extractor hook runs into circular part of the cartridge-case.

A shot is carried out by pressing the trigger.

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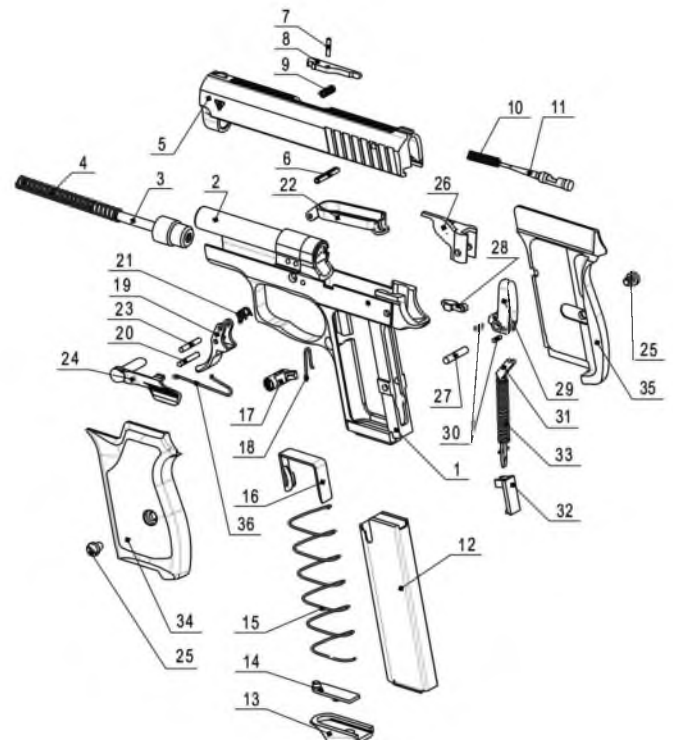


Figure 3

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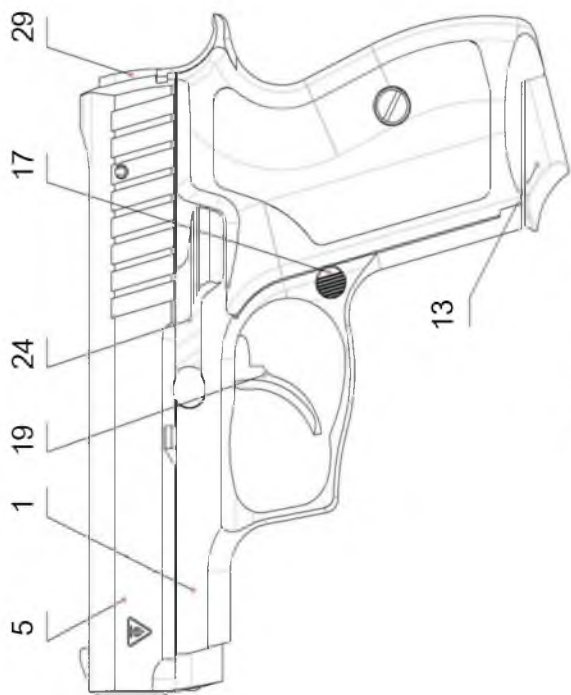


Figure 2

9 INFORMATION ABOUT CANNING AND PACKING

The pistol "Fort-9" caliber 9 mm kurz factory number _____ is canned and packed in accordance with the requirements of the valid technical documents.

Executed preservation _____

Executed packing _____

Preservation date "___" _____ 20___

L.S.

Herewith, the rod which is connected with the trigger, moves back in the internal cavity of the frame and presses on the butt end of the pusher, connected with hammer, and forces returning it around an axis. Herewith, firing pin guide, which bumps hammer plunger, squeezes the firing spring.

When the hammer deviates at such angle that its pin sets opposite hammer axis - pusher front part lifts up, rod back end slides down from butt end of pusher and set under its lower part, which provides disconnecting of hammer with trigger.

Simultaneous, pressed firing spring becomes expand and forces top of hammer to move forward towards slide back part with firing pin. Firing pin makes an inertial hit for cartridge primer, which is located in cartridge chamber, with that shot is happened.

The pressure of powder gases pushes the bullet forward on the barrel and forces slide to move back. The moving back slide presses the recoil spring; spent case engaged by the extractor hook, ejects out from the cartridge chamber through the slide slot. When moving back slide gets of rearmost position recoil spring starts to expand and pushes slide forward. Moving forward slide ejects out of magazine the cartridge into cartridge chamber, slide is set in forward position and locks cartridge in the cartridge chamber. While slide is moving back and forth, hammer moves at the same time as it.

While releasing the trigger, rod under the pressure of rod spring slides in pusher lower side and lifts up, sets in front of pusher, when trigger sets in forward position.

For preclusion of accidental discharge hammer in forward position is drowned in the slide notch, that

- make sure that the magazine is disconnected from the pistol;
- hold the barrel of the pistol in a safe direction, hold the slide to the rearmost position, check the chamber through the ejection slot, make sure that it is empty, release the slide;
- hold the pistol barrel in a safe direction, press the trigger (control slope).

2.2 Magazine loading.

Keep magazine in the vertical position, place a cartridge on the magazine follower in front of magazine lips. Press on the cartridge and push it under the magazine lips, in the same way press another cartridges. To extract cartridges out the magazine, push them in forward direction.

2.3 Loading and firing instructions

Insert loaded magazine in the handle of the pistol. Keystroke of magazine fixation is accompanied by a characteristic sound.

For shooting point the barrel in a safe direction. Pull slide back fully and release - cartridge is in the cartridge chamber.

Aim and press the trigger. After the first shot, the hammer will automatically cock for successive firing, ejection of the used case through the ejection slot and next cartridge feeding to the chamber will do automatically. To continue shooting you must release and press the trigger.

eliminates possibility of accidental and manual cocking.

After shot by the last cartridge from the magazine, the slide is stayed in the extreme back position by slide stop, which turns by the magazine follower ledge. By pressing the lever of the slide stop, the slide and hammer set in the front position.

1.7 Marking

At the pistol slide should be applied the following marking: trademark of the manufacturer; shot title of the pistol - Fort 9, caliber - 9 mm kurz; the words "Made in Ukraine".

Serial number on the pistol frame and slide applied by shock method.

1.8 Packing

The pistol in completeness according to section 1.3 of this manual is packed in individual packing box suitable for storage.

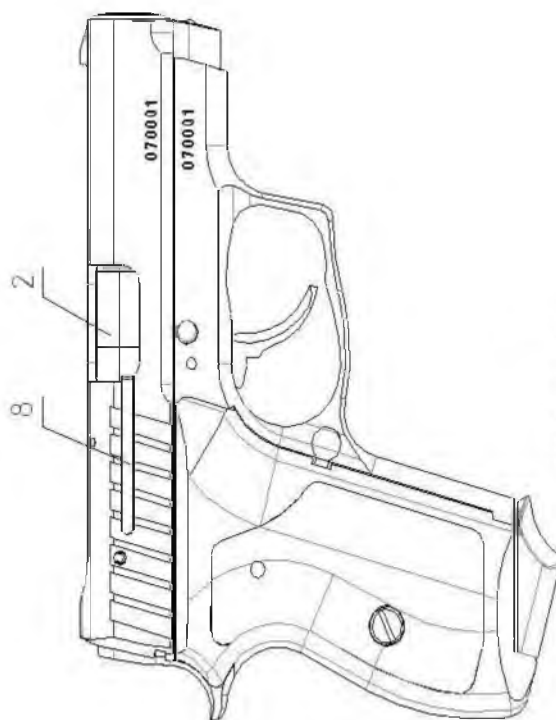
2 PISTOL FIRING

2.1 Safety measures

2.1.1 Safety inspection of the pistol is carried out in the following cases:

- when receiving or transferring a pistol;
- upon arrival to the place of fire;
- after the shooting;
- before come out of the shooting range;
- before conducting of maintenance.

2.1.2 To test the safety of the pistol, follow the steps below:



Picture 1

2.4 Unloading instructions

Press magazine catch and remove magazine.

Check the pistol safety as shown in 2.1.2 of this manual.

If a cartridge was in the chamber during checking the pistol safety, it will ejected from the chamber automatically. Pick ejected cartridge.

Remove unused cartridges from the magazine, as stated in 2.2 of this manual; insert an empty magazine in the handle slot of the pistol.

2.5 Handling operations in course of firing stoppage

The list of stoppages and handling operations are below:

- 1) If you press the trigger, but the shot failed - recharge the pistol and continue shooting;
- 2) slide did not reach the extreme front position after the automatic reloading - move with your hand the slide forward and continue firing, if it is impossible, follow the actions according to 2.5 list 3;
- 3) during automatic reloading when the cartridge is jammed between the face of slide and breech - point the barrel in a safe direction, press the magazine locking button and disconnect magazine, pull back the slide, pull out the jammed cartridge, insert loaded magazine, reload the pistol and continue shooting.

3 SERVICE AND REPAIRS

3.1 General

Carry out maintenance of the pistol immediately after shooting.

8 WARRANTY

The manufacturer guarantees conformity of the pistol to the requirements of the normative documents at the observance of the exploitation rules, transportation and storage, which are described in this manual.

The warranty is 12 months from the shipping date.

Average operation time of the pistol is not less five year or 3000 shoots, which depends from earlier event.

SIA "FORT" removes discovered defects during the warranty free of charge, under the condition of observing all the rules of exploitation and pistol storage, which are mentioned in this manual.

For fulfilling the guarantee repair the owner must send the pistol and this manual to SIA «FORT» to address:

600-richchya Street, 27, Vinnitsya, 21027, Ukraine

SIA "FORT" repairs the pistol after the end of warranty for the owner's cost.

5 STORAGE OF THE PISTOL

For a long-term storage of the pistol it is necessary to carry out its preservation. Procedure for the carry out preservation is done in the section 3.10 of this manual. After canning you should wrap up the pistol with paper .

Preserved and packed pistol must be stored in the closed storehouses, where temperature and humidity fluctuation are less than in open air.

Maximum storage term of the canned pistol is not more one year from the canning.

6 TRANSPORTATION

The pistol in the package of the original packing is transported by any transport for any distances: in the covered railroad car, covered cars, air-tight apartments of airplanes in accordance with the rules of transportation with the proper transport. During the transportation must be assured position of boxes, which excludes the possibility of their strokes at one another.

7 CERTIFICATE OF ACCEPTANCE

The pistol "Fort-9" caliber 9 mm kurz factory number _____ is made and accepted in accordance with the requirements of the normative documents, technical documents and this pistol is recognized as suitable for exploitation.

Executed acceptance _____
 L.S. " ____ " _____ 20____
 Sold _____
 L.S. " ____ " _____ 20____

4 POTENTIAL PROBLEMS

Common troubles and remedies are listed in table 4.1
 Table 4.1

Name of failure	Hypothetic cause	Troubleshooting method
Misfire. The slide is in the forward most position, the hammer is deflated, but the shot is failed	1. Cartridge defect. 2. Condensation of lubricant; firing-pin channel is polluted or the firing-pin is rubbed out 3. Precipitating or fracture of the firing spring	1. Reload the pistol. Carry out the shot. 2. Unload the pistol, disassemble it, examine and clean. If firing-pin is rubbing out, send the pistol to the workshop. 3. Unload the pistol and send it to the workshop.
Delay of a cartridge by the slide. The slide stopped without reaching the forward most position.	1. Cartridge chamber pollution. 2. Damage or precipitation of the recoil spring	1 Push the slide manually forward and go on firing. 2. Discharge the pistol and send it to the workshop.
Cartridge-case is jammed by the slide. Slide is in midtravel	1 Contamination of the pistol mobile parts. Poor round charge 2. Ejector defect.	1 Pull out the magazine, take the slide back, throw away the cartridge-case and go on firing. 2. Discharge the pistol and send it to the workshop.

With a large quantity of shooting for one day, carry maintenance after every 250 rounds.

If the pistol is not used, maintenance must be spend weekly. Priority of maintenance:

- disassemble the pistol and the magazine;
- clean the pistol and magazines;
- check the disassembled pistol;
- lubricate and assemble pistol;
- check the efficiency of the pistol after assembling.

3.2 Preparation for disassembly

Check the safety of the pistol, as described in 2.1.2 of the manual.

3.3 Field stripping instructions

Press the slide stop axis by cleaning brush or magazine while bringing slide stop lever down.

Hold the pistol in one hand. By trigger finger press the trigger till hammer angle of deflection will stay approximate 45°.

Holding the trigger in such station, by another hand pass slide back in rearmost position, lifting up the rear edge of the slide and realeasing it forward, separate it from the barrel, pull out the recoil spring and recoil spring guide.

3.4 Disassembly the pistol

It is not recommended to carry out ordnance stripping often, because it leads to premature wear of the pistol mechanism. Carry out ordnance stripping only with strong pollution, continuance under adversity (rain, snow, sand dust, high humidity).

Carry out field stripping of the pistol as directed by section 3.3 of this manual.

3.5 Disassembly the magazine

Before disassembly of the magazine, take out all cartridges. Press magazine floor plate by the drift pin and carefully move it forward, holding the bottom of the magazine base. Put out the magazine base and magazine spring with follower.

3.6 Cleaning of the pistol

Carry out cleaning of the pistol by lubricating oil for weapon in the following order.

Clear bore:

- stretch square of cloth through the cleaning brush port. Mat thickness of cloth should be such that the cleaning brush will enter into the bore with little effort;
- steep the cloth by lubricating oil;
- insert the cleaning brush in the bore and slowly slide it along the length of the bore several times;
- replace the cloth and clean again;
- repeat cleaning as long as on a clean cloth will not remain traces of dirt or soot;
- wipe dry the bore by clean and dry cloth.

Clean the slide from dirt and moisture with a cloth moistened with lubricating oil for weapon and squeeze. Thoroughly clean the place around ejector and firing pin.

The rest of the details and mechanisms, as well as magazine body, wipe dry with a cloth to the complete destruction of traces of soot, dirt and moisture.

NOTE. During first cleaning it is necessary to clean storage compound, carefully wiping details with the square of cloth, which is moistened by weapon lubricating oil and this cloth should be pressed.

By cleaning brush untwist two screw of handle plate and separate them from the frame.

By cleaning brush press lower end of firing spring stop up and remove its notch from coupling with frame, pull the bolt stop with firing spring and lever.

Knock out the firing pin plug by the drift pin, by slowly pulling the drift pin, separate bolt stop and firing spring from the lever.

Push out the hammer axis by drift pin or by hammer spring lever. Pull out ejector from the frame, and then pull out the hammer with the pusher.

Through the window in the handle frame by cleaning brush turn off right (curved) end of the spring of magazine locking button to the leftward and up so that the bent end became out of the deepening frame. Holding the compressed spring pull it square end out of the hole in the button and pull the spring from the frame groove, then pull the magazine locking button from the frame groove.

Knock out the trigger axis by drift pin and pull the trigger down so, that trigger end will stay in the deepening of trigger bow; with that connection of hammer with rod is set out of frame. Knock out the spring axis of trigger by drift pin, separate the trigger from the rod and trigger spring. Pull the trigger and rod through the top slot in the frame.

Knock out the firing pin plug by the drift pin at the right or left side of the slide. Holding the firing pin by the hand, extract the drift pin; then separate the firing pin from the slide, and spring from the firing pin.

Holding the extractor with your thumb, knock out the extractor axis in direct slide inside, pull the extractor and the extractor spring.

Name of failure	Hypothetic cause	Troubleshooting method
Pinching the cartridge between the face of the slide and barrel body by sending the cartridge to the chamber	1 Magazine pollution	1 Pull out the magazine, take the slide back, pull out the pinched cartridge. Continue shooting
	2 Straightening of magazine lips	2. Unload the pistol, change the magazine. Send the defective magazine to the workshop.
	3 Magazine is not fixed by magazine locking button	3. Pull out the magazine. Take the slide back, pull out the damaged cartridge. Insert the magazine. Continue shooting

3.7 Inspection of the disassembled pistol

Spend inspection of the disassembled pistol after cleaning.

There should not be any defects on details that adversely affect the working capacity, durability and safety of the pistol, namely:

- there must be no deformation, swellings and splits on the barrel and the chamber;
- there must be no crack, stratifications, metal breach on the slide;
- there must be no breaks, especially in the back part and the seat of the hammer, on the frame;
- the firing pin should move freely in the channel slide;
- there must be no chips on the extractor hook and hammer head;
- there must be no cracks and layers on the surface of the magazine follower;
- magazine lips must not be deformed;
- all details of pistol must not have any disunities, deformations and blight.

3.8 Lubrication and assembly pistol

After cleaning and inspection of the disassembled pistol, components and pistol mechanisms grease by weapon lubricating oil.

After cleaning and inspection of the disassembled pistol, components and pistol mechanisms grease by weapon lubricating oil.

Apply a thin coat of oil with a cloth moistened with oil and squeezed out. Wipe pistol parts. Remove oil flows by dry cloth.

Carry out assembling of the pistol and magazine in the reverse order to described in section 3.3 "Field

stripping instructions", 3.4 "Disassembly the pistol" and 3.5 "Disassembly the magazine".

3.9 Inspection of the pistol function

Without inserting magazine into handle slot direct pistol barrel in a safe direction.

Set the slide in rearmost position and inspect the chamber through a slide slot, it must be empty.

Release the slide, under the action of recoil spring slide and hammer should be set in the forward position. Hammer is cocked and strikes firing pin.

Insert the magazine and check its fixation in the handle of the pistol.

Take the slide in rearmost position and release. The slide is holding in rearmost position by slide stop. Press slide stop lever, slide is seting in forward position, press the trigger, hammer makes strike the firing pin.

3.10 Preservation

The manufacturer carries out canning/preserving of the pistol. Maximum term of storage of the pistol without repeated preservation is no more than one year.

For depreservation of the pistol it is necessary to carry out its disassembly and cleaning, in accordance with section 3 of this manual.

At achieving the maximum term of its storage or in the case when the pistol is not used for a long time, it is necessary to carry out depreservation by using the method of putting thick layer of lubricating oil on its internal and external surfaces.

Use the wiper, which is included in the scope of supply, square of cloth and lubricating oil during carrying out of the pistol preservation and depreservation.