

РПБ-1М



ПНЕВМАТИЧЕСКОЕ РУЖЬЁ

РУКОВОДСТВО ПО ЭКСПЛУАТАЦИИ
еМ 2.959.007 РЭ

APPOINTMENT

Gun Pneumatic ПИБ-1М intended for sports underwater shooting in seas, rivers and lakes.

Attention!

Before first use of gun ПИБ-1М, consider familiarising yourself with this registration certificate.

Remember!

Shooting from gun is possible only under water.

1. Technical Information

- | | |
|---|--------------------------|
| 1.1 Maximum range flying harpoon in water under pressure of air in chamber of gun $P = 147 \times 10^4 \text{ N/m}^2$ (15 kg/cm ²), metres: | |
| For model eM 2.959.007 | 10 |
| For model eM 2.959.007-01 | 7 |
| 1.2 Maximum range striking target under pressure of air in chamber of gun $P = 147 \times 10^4 \text{ N/m}^2$ (15 kg/cm ²), metres: | |
| For model eM 2.959.007 | 5 |
| For model eM 2.959.007-01 | 4 |
| 1.3 Effort loading subject to pressure of air in chamber of gun, N (kgf) | 98.1-225.63 (10-23) |
| 1.4 Maximum permissible pressure of air in chamber of gun, N/m ² (kg/cm ²) | 196x10 ⁴ (20) |
| 1.5 Area cross section piston, cm ² | 1.5 |
| 1.6 Mass gun (with harpoon and loader), kg: | |
| for model eM 2.959.007 | 1.1 |
| for model eM 2.959.007-01 | 0.9 |
| 1.7 Overall dimensions gun in loaded condition indicated by figure 1. | |

2. Contents (Complete Set)

Name/Title	I version		II version	
	Symbol	Quantity	Symbol	Quantity
1. Gun	eM 2.959.007	1	eM 2.959.007-01	1
2. Pump	eM 2.962.000	1	eM 2.962.000-01	1
3. Loose Cover/Case	eM 4.166.001	1	eM 4.166.001-01	1
4. Tip/Points (no. 6)	eM 6.157.012	2	eM 6.157.012	2
5. Piston (no. 3)	eM 7.014.003	1	eM 7.014.003	1
6. Stabiliser (no. 24)	eM 8.229.019	1	eM 8.229.019	1
7. Spear Shaft (no. 5)	eM 8.352.038	2	eM 8.352.038-01	2
8. Brace (Loader) (no. 7)	eM 8.366.060	1	eM 8.366.060	1
9. Gasket/Packing (no. 15)	eM 8.683.170	1	eM 8.683.170	1
10. Cuff (Piston Seal) (no. 20)	eM 8.687.003	1	eM 8.687.003	1
11. Handbook for Operating	eM 2.959.007 Pᄁ	1	eM 2.959.007 Pᄁ	1
12. Cord woven technical grade nylon 2.5 mm diameter TY 17 PCᄁCP 44-1071-85		6 m		6 m

Note numbers position showing on figure 1.

3. Arrangement/Layout

3.1 Diagram layout gun represented in figure 1.

Gun composed out of following principal parts:

- | | |
|---|--|
| <ul style="list-style-type: none"> – Handle/Grip – no. 1; – Barrel – no. 2; – Piston – no. 3; – Valve – no. 4; – Trigger mechanism – part nos. 8 – 12; | <ul style="list-style-type: none"> – Harpoon – no. 5; – Brace/Loader – no. 7; – Safety device – no. 18; – Stabiliser – no. 24. |
|---|--|

- 3.2 Grip 1 supports barrel 2 by means of clamp, tightened by screws 17.
- 3.3 Barrel 2 composed out of double tube, inserted one in the other and corresponding to form air-tight. Space between tubes utilised as in the capacity of chamber for compressed air. Within inner tube there is piston 3, which is able to travel along the whole of length of tube.
- 3.4 On rear part barrel 2 there is valve 4, by help of which keeps back compressed air inside barrel. Against damage valve is protected by screw in plug 21.
- 3.5 Turning grooved female screw 18 up to guard on grip 1 of gun applies on safety device.
- 3.6 Trigger mechanism made up of: from stay 8, lever 9, rod 10, trigger hook 11 and return spring 12.
- 3.7 In figure 1 gun depicted in loaded condition. Stay 8 enters circular gutter on harpoon and hold onto it at this position. When pressing on trigger hook 11 stay 8 moved down by lever 9 and releases harpoon 5.
- 3.8 Harpoon 5 presents in appearance steel rod 8 mm diameter, having an end carved with thread M6x1 for attaching tip/point 6, hole for attachment cord and circular gutter for restraining it by stay of trigger mechanism.
- 3.9 On left hand side of gun there is spring hook 22 and catch 23, which serve for packing line on gun.

4. Loading/Charging

- 4.1 For preparation gun necessary in its chamber pump up by air pump. For this requirement, remove plug 21, in place of this screw in pump and carry out pumping.
- 4.2 Quantity air, which is necessary to fill chamber, depends on magnitude of fish, that you are collecting during shoot.
- 4.3 In order to pressure in chamber achieve $98 \times 10^4 \text{ N/m}^2$ (10 kg/cm^2) necessary transact about 50 pumps of pump.
- 4.4 Chamber gun designed for maximum pressure air $196 \times 10^4 \text{ N/m}^2$ (20 kg/cm^2). Exceeding this pressure prohibited! Pumping up chamber inflation for shot not consuming, but serve as accumulation of energy, reserve for loading, which permits protracted time shooting without topping up air in chamber gun.
- 4.5 For loading gun necessary, hold onto it behind grip, with help of loader introduce harpoon before, until following blow, gives evidence of about volume, that stay engages in circular gutter.
Remember, that loaded gun possesses powerful strike, in case of careless handling, capacity to cause serious injury.
- 4.6 If pressure in chamber turns out too great, and you not able to load gun or loading consumes from you excessive effort, remove plug 21, press on projection part valve 4, release air till then, until effort loading becomes acceptable for you.
- 4.7 Load gun with barrel, directed to oneself or upwards, danger!
- 4.8 Firing, product in the air, is able to lead to breakage gun, loading gun with bent harpoon also is able to lead to breakage gun.

5. Rule Use

5.1 Before firing necessary make certain faultless working of trigger mechanism. For this necessity some time load and unload gun to help stay. When loading each time you must feel distinct blow, evidence of correctly working trigger mechanism.

5.2 In case of firing at distance as far as 2+ metres we recommend you attach harpoon to gun with stacked line in this way, as shown in figure 3. Application stabiliser 24 increases straight flying of harpoon.

6. Care of Gun

6.1 Barrel gun works upon high precision and have very smooth surface. This achieves smooth motion of piston and eliminates leakage of air. In order to keep this quality, necessary take care of gun from hit sand and mud into barrel through opening 5, radially disposed at end barrel.

6.2 Each time on concluding shooting recommend you wash thoroughly all the exterior parts of gun in fresh water and dry thoroughly.

6.3 Before protracted storage necessary from cavity barrel release air, turn gun valve down. It is necessary for reduction probability sticking rubber cuff (piston seal) in barrel and for removal moisture and old lubricant from cavity barrel.

6.4 After protracted storage gun for relief movement of piston necessary to gun lubrication. For this lower gun barrel down and remove plug 21, instead of this screw in pump. From pump extract plunger, twist off for this cylinder bush, disposition at pump handle. Pour over plunger pump 3– 4 cc clean oil, leave gun in rotated position, assemble pump and transact 5 – 6 pumps. After this remove pump and tightly screw in plug.

6.5 After protracted storage possibly sticking rubber piston seal to barrel. In order to remove this occurrence, before pump up gun it is necessary move location of piston with assistance harpoon.

6.6 At conclusion guarantee period by chance, if appear leakage air through seal 20, sealing piston 3, it is possible carry out the replacement this part independently. Before dismantling gun air, pumped up in chamber gun, release through valve 4.

6.7 Dismantling carry out following sequence (see figure 1):

- (a) knock out pin, connecting rod 10 and lever 9;
- (b) pull away rod 10, hold onto gun at grip 1, unscrew sleeve 19;
- (c) extract from barrel 2 piston 3 and piston seal 20;
- (d) remove as far as possible contamination from barrel and wash it well with kerosene;
- (e) pour into barrel 3 – 4 cc clean machine oil;
- (f) insert into barrel new piston and piston seal;
- (g) screw tight sleeve 19;
- (h) insert pin, connecting rod 10 and lever 9.

If in case of dismantling that will do damage to packing 15, replace it.

7. Possible Faults Gun and Method their Elimination

Fault	Cause	Method Elimination
1. Loading too difficult	Greater pressure in chamber gun. Bent harpoon (rod). No lubricant in barrel.	Release portion air through valve. Straighten harpoon. Pour oil through valve.
2. On shooting carrying off of harpoon	Bent harpoon.	Straighten harpoon.
3. On loading harpoon not installing on stay	Worn out notch on harpoon.	Make use of spare harpoon.
4. Pump not pumping	No lubricant on cuff (seal) of pump.	Dismantle pump, knead and lubricate cuff with grease type vaseline.

8. Certificate of Inspection

Gun pneumatic РПБ-1М, factory No. 22023 in accordance with technical requirement еМ 2.959.007 ТУ and declared suitable for operation.



М. И. Date issue: 13-09-1993

Signature person, responsible at inspection

9. Guarantee Manufacturer

9.1 Factory manufacturer guarantee normal working gun РПБ-1М during 18 months from day sale of it from shop notwithstanding observance by consumer of condition of operation, circumscribed in this handbook.

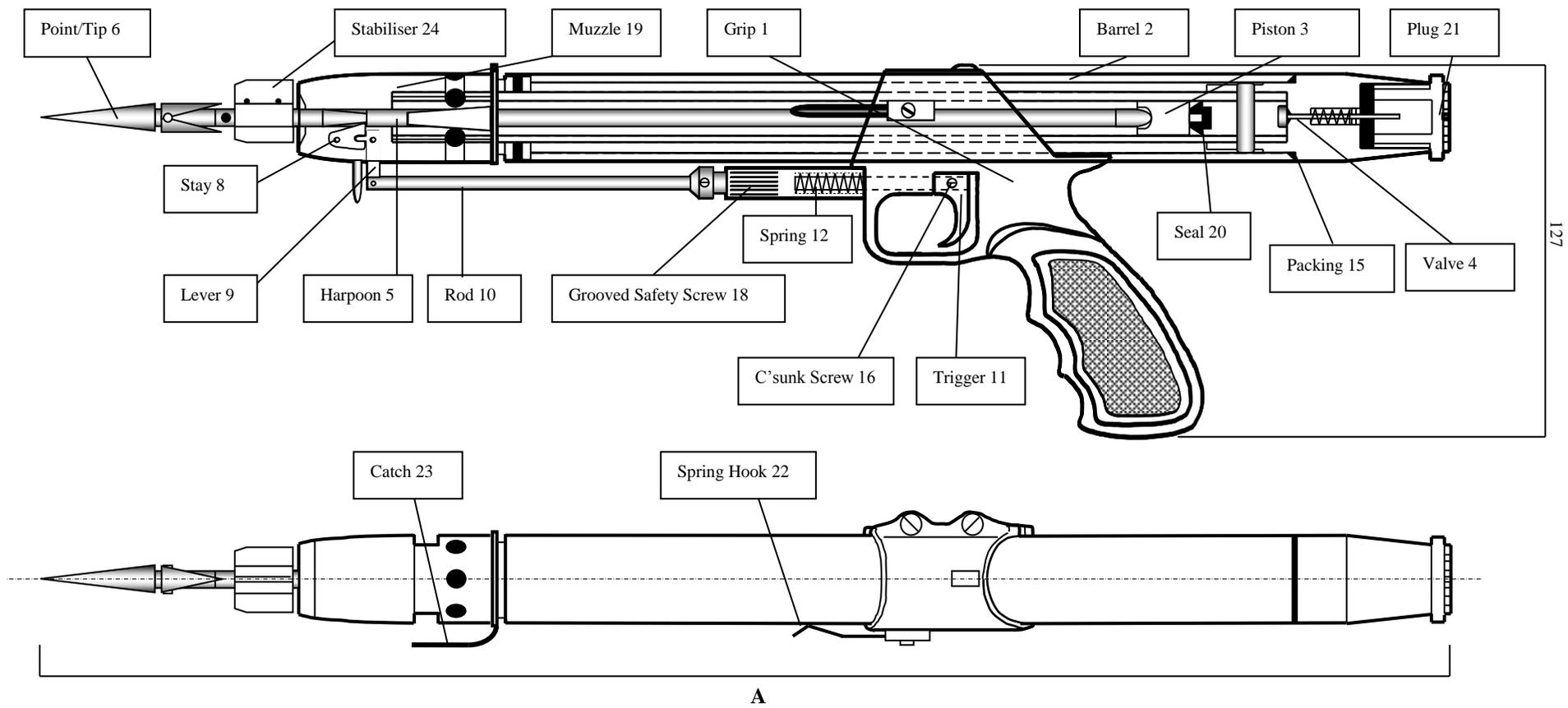
9.2 During guarantee period factory manufacturer freely eliminate defects, arising by fault factory manufacturer, under condition, which gun consumer not damage it.

9.3 Without handbook for operation with note by shop of sale claim on quality working gun not accepted.

9.4 Factory manufacturer will not carry out replacement loss/damage beyond defects, arising from fault consumer.

Address for forwarding claim: 357513, City Пятигорск, Avenue Малыгина, 5, Factory "Impulse".

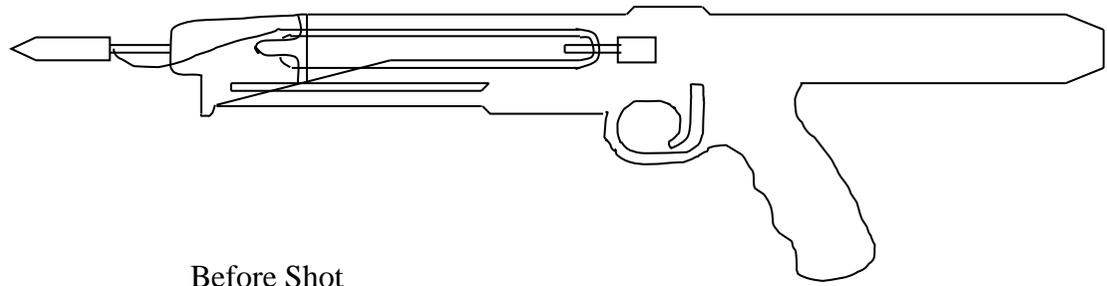
Article in accordance with requirement for safety regulation in force standard documentation.



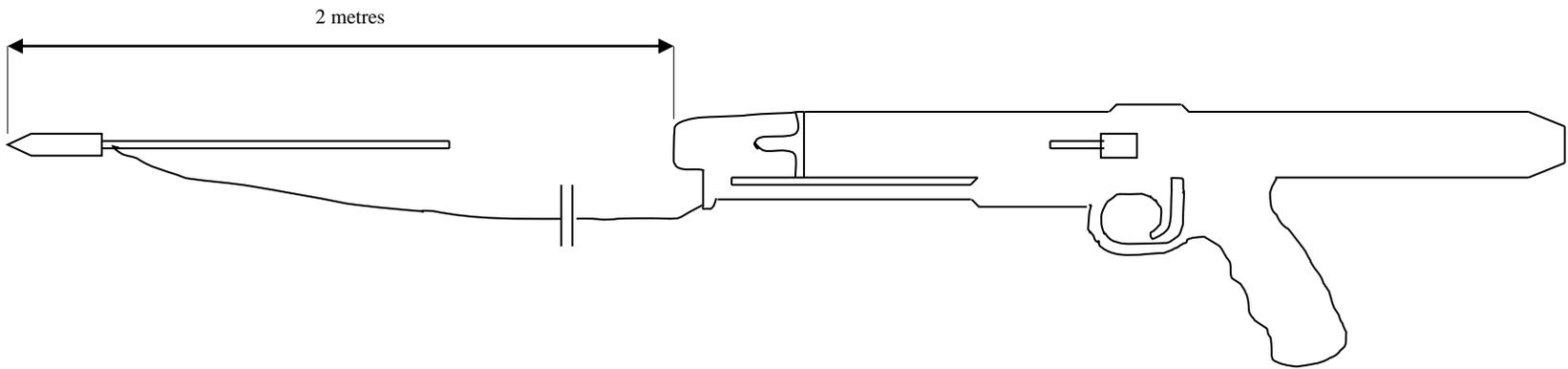
Symbol	A. mm
eM 2.959.007	765
eM 2.959.007-01	565

Figure 1

General



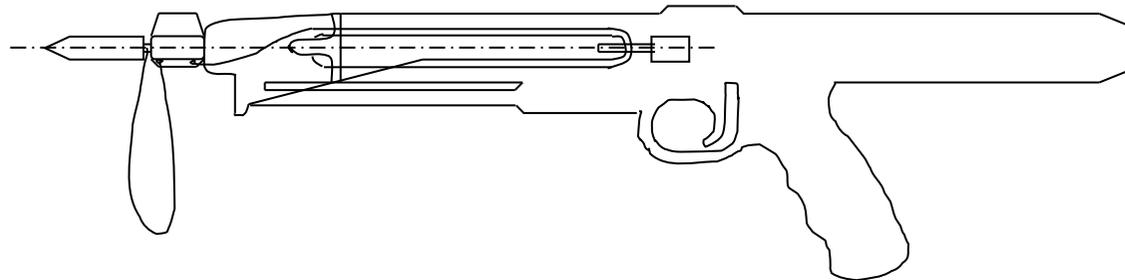
Before Shot



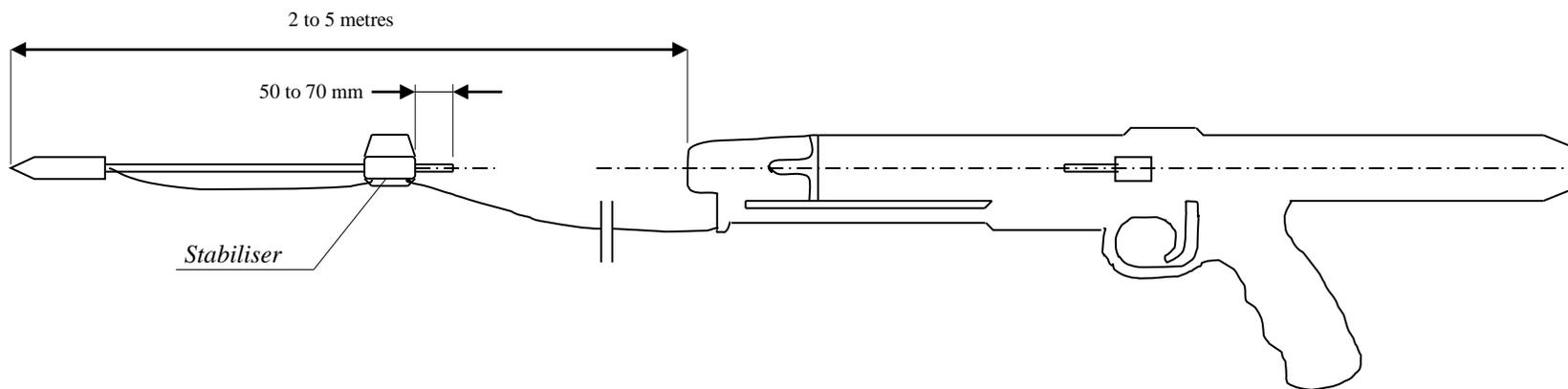
After Shot

Figure 2

Diagram loading without Stabiliser



Before Shot



After Shot

Figure 3

Diagram loading with Stabiliser

10. Guarantee Coupon

Factory "Impulse", 357513, City Пятигорск,
Ставропольского region, Street Малыгина, 5

Coupon No.

For guarantee repair gun pneumatic РПБ-1М, by manufacturer

Factory No.

Selling Shop No.

Date:

Stamp Shop
(person signature)

11. Recall Offer

Respected Comrade!

Apply your recall offer on quality gun РПБ-1М send to address:

357513, City Пятигорск, Street Малыгина, 5, Factory “Impulse”.

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