Zastava arms



Smallbore rifles
MP 22, MP17 & Z5

in calibers .22 LR, .22WMRF & .17HMR



Fig. 1 Smallbore rifle

SPECIFICATION

MODEL	**MP17, Z5**	**MP22, Z5**
Caliber	17 HMR (4.27 mm)	.22 LR, .22 WMRF (5.56 mm)
Overall length	1040 mm (41″)	1040 mm (41″)
Barrel length	560 mm (22″)	560 mm (22″)
Twist pitch	228.6 mm (9″)	406 mm (16″)
No. of grooves	6	6
Length of sighting line	406 mm (16″)	406 mm (16″)
Mass of rifle	2800 g	2800 g
Magazine capacity	5r ds	5rds 10rds (.22LR) on ustomer's request

Action: longitudinally sliding, rotating bolt

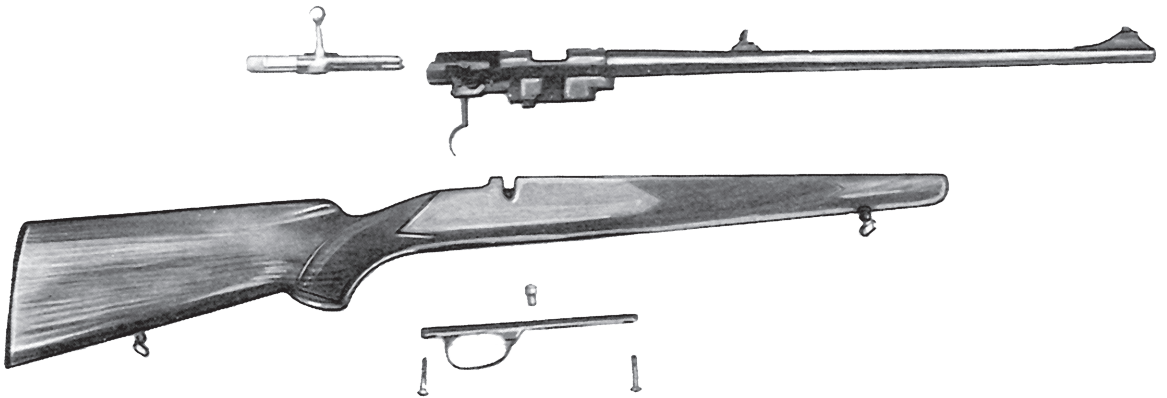


Fig. 2 Main assemblies and parts of the rifle

DESCRIPTION AND FUNCTION

The rifle consists of the following main assemblies and parts (Fig. 2):

— barrel with sights
— action
— bolt
— stock with trigger guard, and
— magazine.

The Smallbore rifle is designed on the basis of a repeating system with rotating, longitudinally sliding bolt.

The magazines are detachable and with capacities of 5 rounds.

The trigger mechanism is adjustable with lateral longitudinally sliding safety.

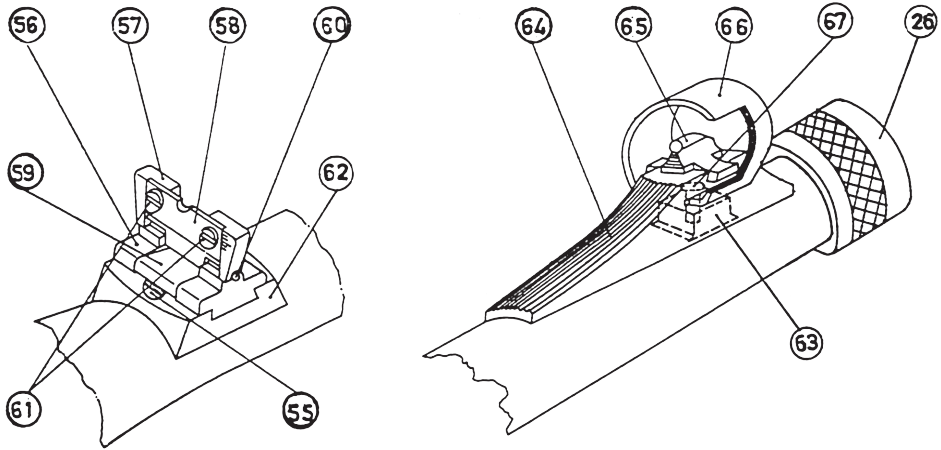


Fig. 3 Rear and front sight

BARREL WITH SIGHTS

The barrel (2) is connected to the receiver (1) by a longitudinally pressed joint and secured against separating by a cross lock pin (3).

There are mechanical sights, rear and front, on the barrel. The rear sight consists of: base (62), plate carrier (57) and plate (58). The carrier can be folded forward. The plate, with aiming notch is fixed to the carrier by two screws. The plate can be moved vertically upon slackening the screws and the plate carrier can be moved within the base channel to the left and right. This allows for rectification of the sight by moving the rear sight parts only.

The front sight consists of the sight base (64) and ring type sight guard (66). It (65) is fixed and no movement is possible.

Sound moderator version of 22 Long Rifle is threaded and covered with protective ring (26).

Barrel bore is grooved by cold forging procedure which ensures the quality of the surfaces guiding the projectile, free from waves and roughness.

ACTION

Action of the rifle houses bolt, magazine, trigger parts and others. All the elements are connected to the receiver (1).

Trigger mechanism is adjustable for trigger pull and amount of engagement between the trigger (4) and firing pin (in the bolt). Adjustments are made in the factory and during use of the rifle they can be made in authorized service shops.

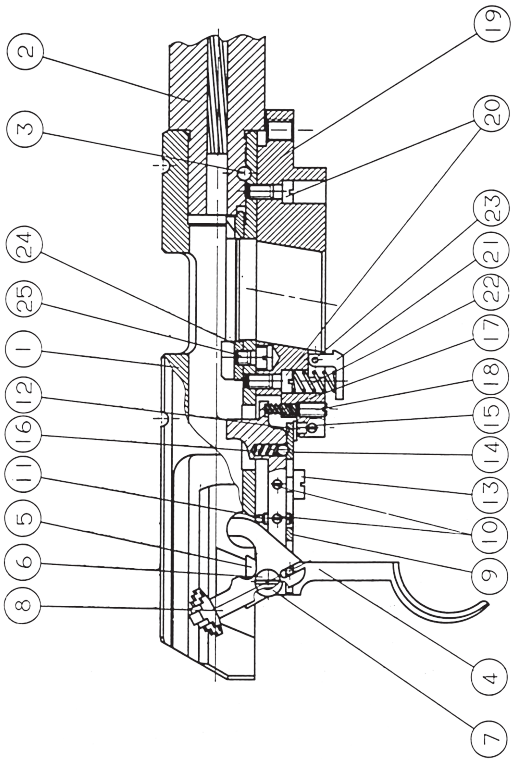
To block the trigger and make firing impossible, it is necessary to act upon the lever (8) which activates the safety (9).

Magazine is connected to the rifle through its carrier (19) and secured on the rifle by means of the holder (21) connected to the carrier (19). Magazine carrier is fixed to the receiver by the screw (20).

Inside the receiver there is the cartridge case ejector (24) which serves also as a magazine abutment on 22 Long Rifle.

Locking of the bolt in the receiver is achieved through a channel on the right side of the receiver.

Fig. 4 Action



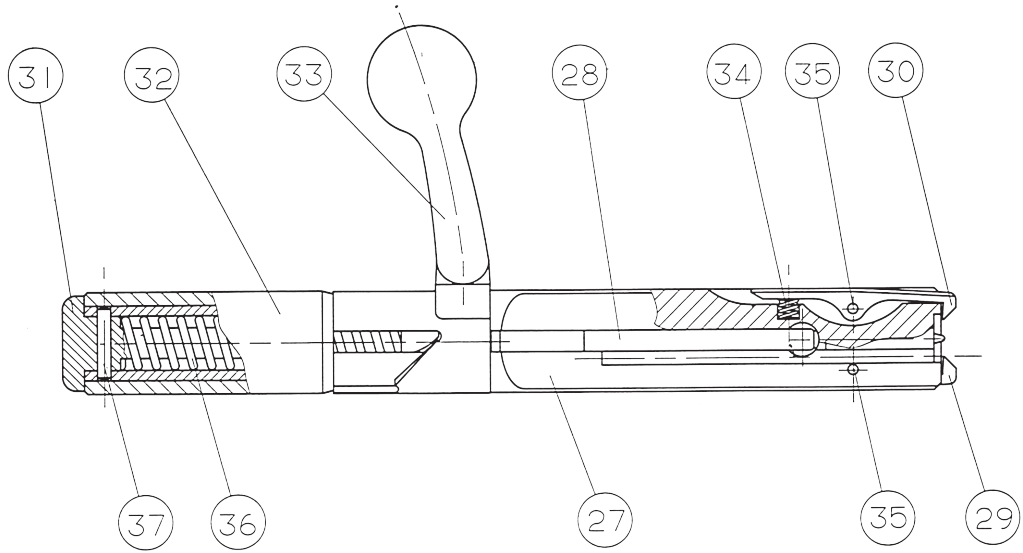


Fig. 5 Bolt

BOLT

Bolt of the rifle (27) is of cylindrical shape with a recess on the face to accommodate the cartridge case bottom.

Bolt handle (33) is a detachable part of the bolt and it can rotate around it for locking in the receiver.

In the front part of the bolt there are extractors (29 and 30); the right extractor extracts the case from the barrel and the left one holds the case. Firing pin (28) travels longitudinally under the action of its spring located in the rear part of the bolt.

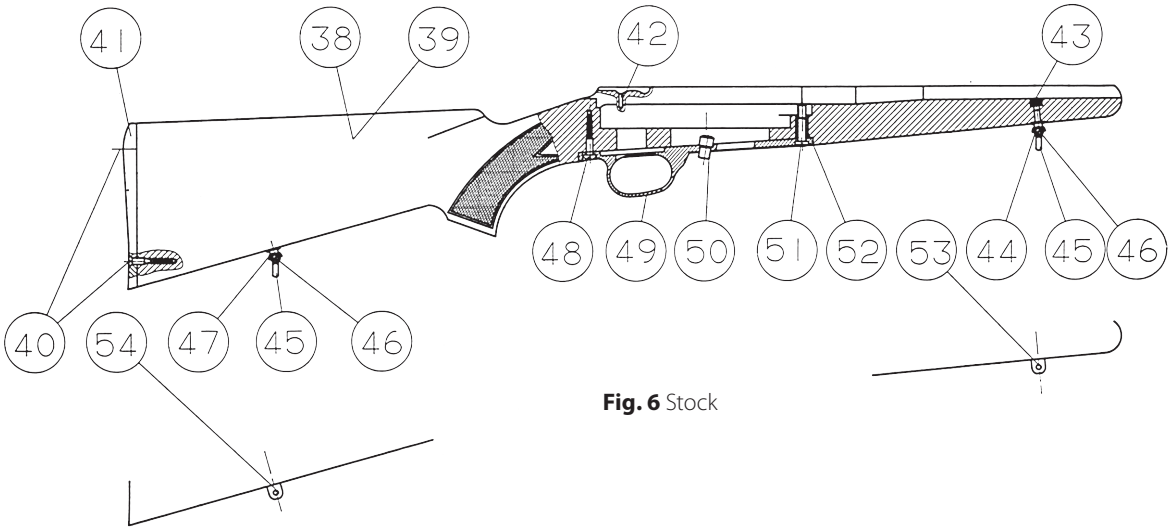


Fig. 6 Stock

STOCK

Stock (38, 39) is made of quality walnut, conditioned wood, anatomically shaped for easy handling with the rifle. It is a standard type, and covers a half of the barrel length. Forehand and pistol grip are checkered to prevent slipping of hands.

Sizes and shapes of the stock are suited to average sizes, of users in compliance with the standards related to weapon design.

The stock could be provided with swivels (45) for rifle carrying belt or only with swivel holders (53, 54).

Finish of the rifle is made by polishing and external surfaces are lacquered (38) or oiled (39) to protect it from moisture.

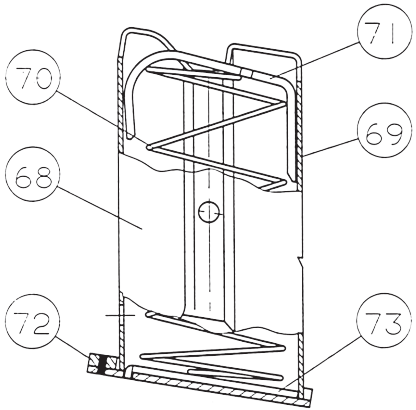


Fig. 7 Magazine for 22 LR

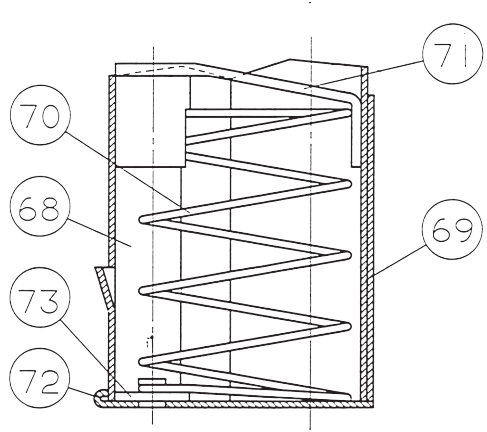


Fig. 8 Magazine for 22 WMRF, .17 HMR

MAGAZINE

Magazine for Smallbore rifle has the capacity of 5 rounds.

The magazines are detachable and can be carried separately from the rifle.

The magazine consists of magazine body (69), follower (71) magazine bottom plate (72), bottom lock piece (73) and follower spring (70).

HANDLING

— Stripping and assembling

The rifle is to be stripped for cleaning, inspection and lubrication of parts. Stripping includes separation of magazine from the rifle and the separation of bolt assembly from the rifle.

Further stripping, such as separation of the barrel from the receiver and stock, stripping of trigger parts, should not be done by the owner of the rifle. This should be done in workshops by persons qualified for this type of work and provided with adequate tools.

Force should not be applied in stripping and assembling since this is an easy and trouble free operation if the proper procedure is followed.

Bolt is separated by the right hand upon unlocking it by turning its handle upward. Then pull the bolt backward withdrawing the trigger to enable the bolt to be taken out of the receiver.

The rifle is assembled in the sequence opposite to stripping.



Fig. 9 Separation of magazine from rifle



Fig. 10 Withdrawal of trigger and removal of bolt

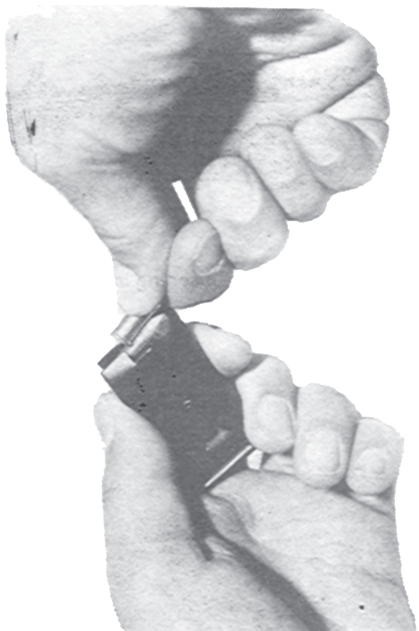


Fig. 11 Magazine loading

LOADING OF MAGAZINE AND RIFLE; FIRING AND EJECTION OF CARTRIDGE (CASE) FROM BARREL

Magazine of the sporting rifle is used to hold ammunition. A round is to be fed into the barrel just before shooting.

Ammunition must be in original factory packages provided with a label with all necessary data printed. The ammunition of unknown origin should not be used.

Magazine capacity is 5 (22.LR, 22 WMRF, 17 HMR) and 10 (22 LR) rounds respectively. Never try to insert more rounds into the magazine since this will unnecessarily deform the spring.

The ammunition is to be inserted into the magazine from the top (Fig. 11). After loading the magazine insert it into the rifle having closed the bolt before that.

When the round is in the barrel, the safety must be »at safe«. Before shooting move the safety into position »ready« — red dot visible.

To unload the rifle when a round is in the barrel, it is necessary first to eject it by means of the bolt, and then with the bolt still in rear position, detach the magazine by the left hand. It is not recommendable to unload the magazine by feeding rounds into the barrel first and then ejecting.



Fig. 12 Magazine inserting into-rifie



Fig. 13 Loading of rifle
(cartridge inserting into barrel)



Fig. 14 Trigger mechanism blocking

SIGHT ADJUSTMENT AND AMMUNITION

Since ammunition of different manufacturers has different characteristics, they may cause a drop of trajectory and deviation of shots from the aiming point.

To solve this problem the rifles are provided with built-in adjustable rear sight which can very easily eliminate the differences in ammunition and aiming in regards to the factory setting of sight.

The ammunition should be purchased in original factory packages with exactly specified caliber and mass of projectile. If the same ammunition is always used, the need for correction of sight is eliminated.

The ammunition of unknown origin, oxidized, damaged or hand-loaded ammunition should not be used since it may cause a failure to function or heavy damages.

MAINTENANCE

To ensure long life and proper functioning of the rifle it is necessary to maintain and clean it carefully.

A poorly maintained and corroded barrel with soot caused by powder gases and deposits of tombac, oxidized and damaged parts of mechanisms result not only in improper function and shortening of life, but may also be a life hazard to the shooter and his companionship.

The rifle should be thoroughly cleaned after every use regardless of whether it has been fired or not. While carried, the rifle has been exposed to dust or moisture (dew, rain, snow) and therefore requires cleaning and lubrication.

For cleaning and lubrication it is advisable to use well-known oils intended for this purpose. Immediately after use the rifle must be cleaned and wiped dry, and the barrel lubricated with oil.

Thanks to its chemical composition the oil dissolves the soot residuals in the barrel bore. Then clean the barrel from soot deposits with the barrel cleaner and rags changing rags several times until the last rag comes out clean which means that the barrel is well cleaned.

After that lubricate the barrel with oil using the brush. Two-three days later inspect the barrel and wipe it again with a rag wrapped around the barrel cleaner until the rag comes out clean. Upon wiping lubricate the barrel again.

It is not advisable for the owners of the rifles to strip them unless provided with adequate tools and experience.

For every possible repair and replacement of parts refer to authorized service shops which are provided with skilled personnel, required tools and original spare parts.

Before shooting the rifle should be wiped, particularly the barrel which must be dry. Failure to do this may result in increasing soot deposits on the barrel bore walls and bulging of the barrel.

Cleaned and oiled rifles should be kept in a dry room not exposed to a heat source. The most suitable place for keeping them is a safely locked cabinet.

COMPONENT PARTS

	22 LR	22 LR for sound mod.	22 WMRF	17 HMR
ACTION				
1. Receiver	106404	106404	108522	108522
2. Barrel	106406	106500	108523	120906
3. Barrel lock pin	106407	106407	106407	106407
4. Trigger	106412	106412	106412	106412
5. Trigger holder	106414	106414	106414	106414
6. Trigger screw	106410	106410	106410	106410
7. Washer	106463	106463	106463	106463
8. Safety lever	108930	108930	108930	108930
9. Safety	106416	106416	106416	106416
10. Screw	106413	106413	106413	106413
11. Regulating screw	106422	106422	106422	106422
12. Plug	108447	108447	108447	108447
13. Abutment screw	106415	106415	106415	106415
14. Ball	106417	106417	106417	106417
15. Plug lock piece	108865	108865	108865	108865
16. Safety spring	6939	6939	6939	6939
17. Trigger spring	106420	106420	106420	106420
18. Trigger spring screw	106421	106421	106421	106421
19. Magazine carrier	106418	106418	108527	108527

	22 LR	22 LR for sound mod.	22 WMRF	17 HMR
20.Magazine carrier screw	106419	106419	108528	108528
21.Magazine holder	106424	106424	106424	106424
22.Magazine holder spring	106423	106423	106423	106423
23.Magazine holder axle	106425	106425	106425	106425
24.Ejector	106409	106409	108524	108524
25.Ejector securing pin	106408	106408		
26.Protective ring		106499		

BOLT

27.Bolt body	106432	106432	108526	108526
28.Firing pin	106434	106434	106434	106434
29.Extractor, left	106436	106436	113747	113747
30.Extractor, right	106437	106437	113748	113748
31.Spring holder	106438	106438	106438	106438
32.Cover	106439	106439	106439	106439
33.Bolt handle	106440	106440	106440	106440
34.Extractor spring	106441	106441	106441	106441
35.Extractor axle	106442	106442	106442	106442
36.Firing pin spring	106443	106443	106443	106443
37.Securing pin	106444	106444	106444	106444

	22 LR	22 LR for sound mod.	22 WMRF	17 HMR
STOCK				
38.Stock (lacquered)	108516	108516	108516	108516
39.Stock (oiled)	106447	106447	106447	106447
40.Stock plate screw	1868	1868	1868	1868
41.Stock plate	1869	1869	1869	1869
42.Stock plug	1860	1860	1860	1860
43. Front swivel nut	1871	1871	1871	1871
44.Front swivel holder	108449	108449	108449	108449
45.Swivel	1874	1874	1874	1874
46.Swivel screw	1875	1875	1875	1875
47.Rear swivel holder	1877	1877	1877	1877
48.Trigger guard screw	106488	106488	106488	106488
49. Trigger guard	106427	106427	108546	108546
50.Magazine holder button	106426	106426	106426	106426
51.Screw	106428	106428	106428	106428
52.Distance bushing	106429	106429	106429	106429
53.Front swivel holder	7492	7492	7492	7492
54.Rear swivel holder	7493	7493	7493	7493

	22 LRong Rifle	22 LR for sound mod.	22 WMRF	17 HMR
SIGHTS				
55.Base screw	1798	1798	1798	1798
56.Rear sight carrier	1791	1791	1791	1791
57.Plate carrier	1792	1792	1792	1792
58.Rear sight plate	1793	1793	1793	1793
59.Rear sight spring	1794	1794	1794	1794
60.Rear sight axle	1795	1795	1795	1795
61.Plate screw	1796	1796	1796	1796
62.Rear sight base	1797	1797	1797	1797
63.Carrier	1786	1786	1786	1786
64.Front sight base	108547	108547	108547	108547
65.Front sight	1784	1784	1784	1784
66.Front sight guard	1785	1785	1785	1785
67.Screw	1788	1788	1788	1788
MAGAZINES				
68.Magazine	106449	106449	108530	108530
69.Magazine body	106451	106451	108531	108531
70.Follower spring	106453	106453	108535	108535
71.Follower	106452	106452	108532	108532
72.Magazine bottom plate	106454	106454	65	65
73.Magazine bottom lock piece	106455	106455	66	66

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