

INSTRUCTION MANUAL

CZ 512



ČESKÁ ZBROJOVKA
SINCE 1936

Before handling the firearm read this manual carefully and observe the following safety instructions.

Improper and careless handling of the firearm could result in unintentional discharge and could cause injury, death or damage to property. The same consequences can be caused by unauthorized modifications or adjustments, corrosion, or use of non-standard or damaged ammunition. In these cases the manufacturer shall not be responsible in any manner whatsoever for the resultant consequences.

Before leaving the factory this firearm was tested, carefully inspected, and packed. CZ cannot accept responsibility for product handling while in transit, or upon leaving the factory. Therefore, please examine this rifle carefully at the time of purchase to ensure that it is unloaded and undamaged.

This instruction manual should always accompany the firearm and that even in the case of its loan or sale.

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SAFETY INSTRUCTIONS

Always follow the safety instructions for your safety and the safety of others.

1. Always handle your firearm as if it were loaded.
2. Never point your firearm at anything you do not intend to shoot.
3. Never take anyone's word that a gun is unloaded.
4. Always make sure that your firearm is not loaded before laying it down, or handing it to another person.
5. Always store your rifle unloaded with the striking mechanism released.
6. Never abuse your firearm by using it for any purpose other than shooting.
7. Never leave a loaded firearm unattended.
8. Prior to loading the firearm make sure that barrel bore, chamber, and action are clean and clear of obstructions. Clean a dirtied firearm immediately so that it will function properly and safely.
9. Always use only clean, dry, original high quality commercially manufactured ammunition, which is appropriate to the caliber of your rifle.
10. Never drink alcoholic beverages or take drugs before or during shooting.
11. Always wear safety glasses and ear protection during shooting whenever possible.
12. Always keep the safety on when the rifle is loaded with cartridge in the chamber, until you are ready to fire. Keep firearm pointed in a safe direction when disengaging the safety.
13. Always keep clear and keep others clear of the ejection port.
14. Never squeeze the trigger or put your finger in the trigger guard until you are aiming at a target and ready to shoot.
15. Always be absolutely sure of your target, and the area behind it, before you squeeze the trigger. A bullet could travel through or past your target up to several hundred meters.
16. Never shoot at a hard surface such as rock, or a liquid surface such as water.

17. Never fire your firearm near an animal unless it is trained to accept the noise.
18. Never indulge in "horseplay" while holding your firearm.
19. Failure to fire: In case of failure to fire hold the firearm keeping it pointed towards the target, or a safe open area and wait 30 seconds. If a hangfire (slow ignition) has occurred, the cartridge will fire within 30 seconds. If the cartridge does not fire, eject the cartridge and examine it. If the firing pin indent on the cartridge is light, or non-existent, have the firearm examined by a competent gunsmith.
20. Always make sure your firearm is not loaded before cleaning, storing or travelling.
21. Always keep and store your firearm and ammunition in separate locked receptacles out of reach and sight of children and untrained people.
22. Never alter any parts of your rifle as the safety and proper function of your rifle could be seriously compromised.
23. Always be aware that corrosion, use of damaged ammunition, dropping the rifle on hard surfaces or other "coarse treatment" could cause a damage you may not see. If something like this happens, allow let the firearm to be examined and tested by a competent gunsmith.

THE RIFLE DESCRIPTION AND TERMINOLOGY

The names of basic rifle parts used in this Instruction Manual are presented in Fig. 1 on the inner side of the cover. Nomenclatures of all CZ 512 parts are presented in the section *List of Parts*.

The rimfire model CZ 512 is a self-loading rifle with dynamic bolt, designed for hunting and sporting purposes. It features the manual safety to prevent any unintended firing. The rifle can be provided with a scope attached to the rails in the receiver top.

The rifle is supplied in several basic models provided with a semi-matt walnut butt stock. The characteristics of the various models include:

- the rifle is well-balanced and consequently quick and easy to aim
- easy mounting of rifle scope
- controlling elements, which are simple in operation, and easy to reach
- easy disassembly for cleaning and routine maintenance, which can be carried out without any tools
- a high degree of accuracy when firing
- a long service life
- high functional reliability in all environments, even with ammunitions made by various manufacturers, and with different types of bullets

OPERATING INSTRUCTIONS

Ammunition

Use only factory-manufactured flawless ammunition of appropriate caliber, which are in compliance with CIP regulations (International Proof Commission for Firearms) or SAAMI (Sporting Arms and Ammunition Manufacturers' Institute Inc. of the United States). The use of other cartridges could damage the firearm or cause injury to the shooter.

The basic model in .22 WMR calibre has been designed for the standard performance ammunition with muzzle velocity higher than 550 m/s. Apart from the standard type of ammunition, the .22 LR model has been also designed for High Velocity (HV) and subsonic ammunition.

Note:

It is recommended to treat the subsonic ammunition with steel casings with a little grease to ensure reliable functioning of the entire firing cycle.

Magazine Removal

Pull the forward magazine latch towards yourself (Fig. 2) and remove the magazine out of the rifle.

Magazine Loading

With the open end uppermost, grasp the magazine in one hand. Place a cartridge on the magazine follower with the base just forward of the retaining lips. Press the cartridge down and back until it touches the rear flat edge of the magazine. Place the next cartridge on top of the previous cartridge and slide in as already described.

Loading of the Rifle

ALWAYS MAKE SURE THE RIFLE IS POINTED IN A SAFE DIRECTION WHEN LOADING!

Insert a loaded magazine into the rifle until it is securely caught by the magazine catch.

Use your left hand to grab the rifle by the fore-stock, press the rifle butt against your body and grab the cocking lever with your right hand. Pull the bolt to its threshold rear position and release it (Fig. 3). Never try to slow the bolt down when moving forward! This movement shall result in a round being chambered with simultaneous cocking of the percussion mechanism. The rifle is now ready to fire. If you do not intend to fire immediately ensure the firearm safety as described further in the section *Safety and its Operation*.

Unloading of the Rifle

ALWAYS MAKE SURE THE RIFLE IS POINTED IN A SAFE DIRECTION!

- Remove the magazine in the manner as already described
- Pull the bolt to its threshold rear position and make sure the chamber is empty
- Release the bolt forward
- Make sure the safety is disengaged in order to allow for trigger pull
- Depress the trigger (dry fire)

The Safety and its Operation

The manual safety is located in the rear of trigger guard (Fig. 4). When disengaged the red part of the safety will protrude out of the trigger guard to indicate the rifle is ready to fire. Once engaged, the white protrusion of safety will show. With the safety engaged, the firearm bolt cannot be operated and it is not possible to push the trigger.

Sight Adjustment

The CZ 512 rimfire rifle enables rear sight adjustment for elevation and windage and front sight adjustment for elevation. The sights have been zeroed at 50m in the factory.

For rear sight adjustment for elevation and windage, loosen the H (horizontal) and V (vertical) screws and move the rear sight blade. For front sight adjustment for elevation, move the front sight in the dovetail groove in the front sight base. The front sight is secured against movement using a screw.

Rifle Scope

Mounting of the riflescope and sighting-in of the rifle should be entrusted to a qualified gunsmith's workshop.

MAINTENANCE INSTRUCTIONS**Stripping for Cleaning - Disassembly**

1. Remove the magazine.
2. Loosen the screw in fore-stock and remove it, pull the fore-stock at the direction of fire to take it off the rifle.
3. Depress the barrel in order to unblock the release pin. Depress the release pin sideways (e.g. by using the fore-stock screw or any other suitable item) and remove it once deployed (Fig. 5).
4. Use your left hand to grasp the barrel and, holding the butt stock with your right hand, pull the receiver (Fig. 6) away to remove it out of the rails, up to the threshold position, where the receiver has been stopped by the cocking lever.
5. Remove the cocking lever out of the rifle (Fig. 7) and complete the removal of receiver and barrel. When removing the receiver, pay special attention to prevent the bolt from release out of the receiver seat and accidental injury as the bolt is under permanent pressure by action of the recoil springs.
6. Hold onto the bolt top firmly, push it slightly to the rear to overcome the pressure of recoil springs and tilt it upwards to allow for its complete removal (Fig. 8). The bolt shall be removed with care in order to avoid any injuries due to recoil springs ejection.

No further disassembly is needed for routine maintenance. When a great number of cartridges has been fired it is advisable to also disassemble the bolt.

Note:

During the assembly of the recoil springs use the guide fork (it is supplied only with the bolt in caliber .22LR) which ensures an accurate and simple lead of the springs into the hole in the bolt (Fig. 9).

CAUTION:

Do not strip your firearm any further. If you assume that your firearm requires adjustment or repair, entrust this work to a competent gunsmith in a specialized workshop!

Cleaning the Rifle

Clean the Rifle

- each time you use it
- if you get your rifle wet
- as soon as possible after shooting
- at least once a year in a temperate climate
- as often as once a month in a tropical climate, or other demanding environment

Cleaning the Barrel Bore and the Cartridge Chamber

If the firearm has not been fired or if only a few cartridges have been fired clean the barrel bore and cartridge chamber by the clean patch attached to the cleaning rod. Repeat the cleaning, changing patches, until the last patch comes out clean.

When the barrel bore is very dirty, apply a gun cleaning solution using cleaning brush. Let the solvent act for about 10 minutes (this time may vary depending on the solvent agent being used). Then thoroughly scrub out the barrel bore. Subsequently, dry the barrel bore and cartridge chamber with a clean patch and check that all powder residues, or fouling have been removed. If necessary repeat this procedure. The cleaning rod and the brush must be inserted into the barrel bore from the chamber, to prevent wear or damage to the muzzle. Pass the brush all the way through the barrel bore before reversing the movement. If you try to change directions with the brush in the barrel, the brush could stick.

Cleaning of Other Rifle Parts

Other parts of the rifle can be cleaned with a dry cloth, old toothbrush, copper bristle brush or a wooden scraper. Preserving oil or paraffin oil can be used for proper cleaning. Never use the agent designed for barrel bore cleaning! These solutions could remain in the joints, and after some time could cause corrosion. Check that cloth particles or brush bristles have not become lodged in any part of the rifle. The maintenance of the stock can be carried out with a dry cloth or by some furniture-polishing product.

Preserving

When the barrel bore, cartridge chamber, and all accessible parts are clean and dry, wipe these parts with a cloth soaked in gun oil or apply the oil in a spray. In order to ensure a correct operation of the weapon it is necessary to apply the oil on the lubrication surfaces of the bolt which are located at the rear part of the feeding bridge and above the holes for recoil springs. Furthermore, it is necessary to apply the oil on the upper surface of the guiding slots of the casing and on the outer contact surface of the percussion hammer (see the picture on the inner page of the cover). Remove all excess oil.

Before the shooting always wipe the barrel bore dry. At very low temperatures remove the oil from all accessible parts or apply a lubricant prepared especially for these conditions. Use thick preserving agents for example, preserving grease only for long-term storage in demanding climate environments, and before any use of the rifle, it must be thoroughly removed from all parts of the firearm.

Waste Management

When used properly, the materials used in the product and packaging have no adverse effects on human health or the environment. When disposing of the product or its packaging, metal parts (steel and non-ferrous metals), plastics, wood, paper and cardboard should be stored separately in collecting containers intended specifically for that purpose.

LIST OF PARTS

1 Barrel	28 Extractor Spring	55 Swivel Attachment (2x)
2 Front Sight Base	29 Cocking Lever	56 Fore-Stock
3 Front Sight Base Screw (3x)	30 Recoil Spring (2x)	57 Fore-Stock Screw
4 Front Sight	31 Recoil Spring Strut (2x)	58 Fore-Stock Lip
5 Front Sight Screw	32 Recoil Spring Carrier	59 Fore-Stock Lip Screw (2x)
6 Front Sight Cover	33 Trigger Mechanism Casing	60 Magazine Shell
7 Fore-Stock Fixture	34 Trigger Safety	61 Magazine Plunger
8 Rear Sight	35 Trigger Safety Pin	62 Magazine Plunger Spring
9 Rear Sight Screw (2x)	36 Trigger Safety Pin Spring	63 Follower
10 Receiver	37 Trigger	64 Magazine Spring
11 Slide	38 Trigger Pin	65 Magazine Base
12 Slide Pin	39 Trigger Spring	66 Magazine Shell
13 Barrel Screw (2x)	40 Disconnecter	67 Follower
14 Release Pin	41 Disconnecter Pin	68 Magazine Spring
15 Ejector	42 Disconnecter Spring	69 Magazine Base
16 Ejector Pin	43 Percussion Hammer	70 Magazine Shell
17 Casing	44 Percussion Hammer Spring	71 Follower
18 Magazine Housing	45 Hammer Insert (2x)	72 Magazine Spring
19 Magazine Catch	46 Hammer Pin	73 Magazine Housing Insert
20 Magazine Catch Pin	47 Trigger Backstop Pin	74 Magazine Housing Insert Pin
21 Magazine Catch Spring	48 Securing Pin	75 Magazine Shell
22 Slide	49 Stock Screw Nut	76 Follower
23 Firing Pin	50 Stock Screw	77 Magazine Spring
24 Firing Pin Lug	51 Fan-shaped Washer	
25 Firing Pin Spring	52 Stock	
26 Extractor	53 Butt Plate	
27 Extractor Pin	54 Butt Stock Screw (2x)	

TROUBLESHOOTING, CAUSES AND REMEDIES

If your firearm is properly used and maintained, malfunctions will rarely occur. However, if such a situation does occur please observe the following instructions.

CAUTION - if a malfunction occurs, the possibility of an unintentional discharge is substantially increased. For this reason, when clearing malfunctions, observe the Safety Instructions already mentioned above. Keep the rifle pointed in a safe direction, do not turn the rifle against your body or anyone else's. Do not place your hands in front of the barrel!

Malfunction	Possible Cause	Remedy
A cartridge has not been fed into the chamber	Magazine is not fully inserted or is damaged. The rifle or cartridges are fouled (dirty).	Insert magazine properly or change magazine. Clean the rifle and cartridges and wipe them dry or as the case may be slightly lubricate.
Misfire	Defective cartridge. Firing Pin hole fouled (dirty) or improper lubrication agent used during low temperatures conditions.	Follow the Safety Instructions according to point 19. Disassemble and clean the firing pin or use low temperature lubricant.
A shot sounds "weak"	The cartridge has been activated but no powder load was inside the cartridge case.	Unload the rifle and check that the bullet is not lodged in the barrel. Any subsequent shot could cause damage to the barrel!
The spent case has not been ejected	Cartridge chamber, extractor or ammunition dirty or unsuitable lubricant in low temperature environment.	Clean and wipe the rifle dry or eventually lubricate lightly with a suitable agent. Use clean and new ammunition.

If you cannot clear away any malfunction in the manner described above, entrust the rifle to a competent gunsmith for inspection and repair.

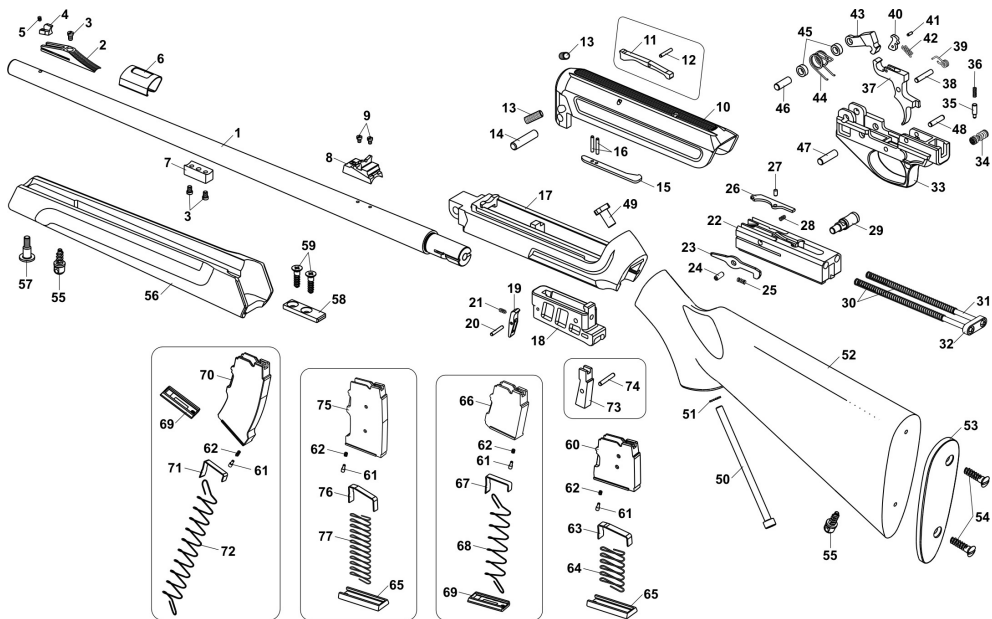
TECHNICAL SPECIFICATIONS

Caliber		.22 WMR, .22 LR
Overall Length	[mm]	1000
Height	[mm]	186
Width	[mm]	57
Barrel Length	[mm]	525
Sight Radius	[mm]	406
Weight (Empty Magazine)	[kg]	2,65
Magazine Capacity	[cartridges]	5 / 10
Trigger Pull	[N]	max. 29

LIST OF ILLUSTRATIONS

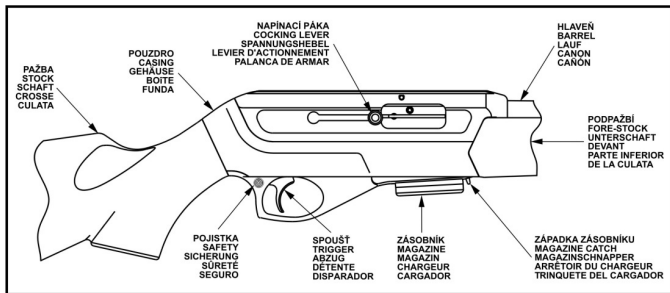
1. The Names of Basic Parts
2. Magazine Removal
3. Loading of the Rifle
4. Engaged Safety Detail
5. Depressing the Release Pin
6. Receiver and Barrel Removal
7. Cocking Lever Removal
8. Complete Bolt Disassembly
9. Use of the Guide Fork during the Assembly of the Recoil Springs

The Company, reserves the right to make any changes it thinks necessary to improve its models or to meet any requirements of manufacturing or commercial nature.



Lubrication surfaces
Puntos de lubricación
Mazaci místa
Schmierstellen
Points de graissage





1



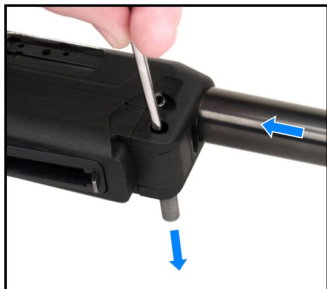
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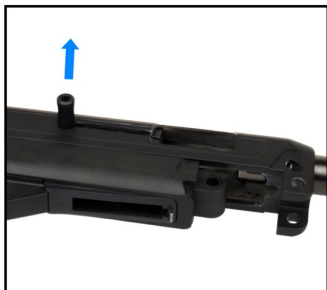
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