

# INSTRUCTION MANUAL

## CZ 455



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 455 parts are presented in the section *List of Parts*.

The CZ 455 is a bolt-action rimfire rifle intended for hunting and sporting purposes, with the trigger adjustable for weight of pull. The manual safety prevents the gun from firing and the bolt from opening. Dovetail grooves for a scope mount are provided on the receiver.

Multiple versions are available. The characteristic features of all the versions include the following:

- 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
- cocking indicator indicates cocking of the striking mechanism
- 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
- threaded muzzle as option for Still or Parker Hale sound moderator attachment (available on special request only, territories with appropriate legislation only)

CZ 455	Caliber			Surface finish		Description
	.22 LR	.22 WMR	.17 HMR	Blued	Nickeled	
Standard	✓	✓	✓	✓	✗	Version with lacquered beech stock with a plastic butt pad, the barrel is equipped with iron sights
Supermatch	✓	✗	✗	✓	✗	Version with varnished beech stock and plastic butt pad, the barrel with 12-groove bore is equipped with sights
American	✓	✓	✓	✓	✗	American-style lacquered walnut stock with a higher comb and plastic butt pad, without iron sights
Varmint	✓	✓	✓	✓	✗	sport-style lacquered walnut stock with a higher comb and a lower rubber butt pad, heavy barrel without iron sights
Lux	✓	✓	✓	✓	✗	lacquered walnut stock with a plastic butt pad, iron sights on the barrel

## OPERATING INSTRUCTIONS

### Ammunition

Use only factory-manufactured 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.

### Magazine Removal

Press the magazine catch located at the front of the magazine in a rearward direction (Fig. 2), and remove the magazine (single-shot adapter) from the firearm.

### 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 (Fig. 3). 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.

Grip the rifle with the left hand by its fore-end, place the buttplate against your body and grip the bolt handle with the other hand. Open the bolt by raising the bolt handle and pulling it to the rear to its stop (Fig. 4). Then push the bolt continuously to its forward position again and by rotating the bolt handle in a downward direction close the bolt action. This procedure inserts the cartridge into the cartridge chamber and cocks the striker 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*.

When using a single-shot adapter, keep it inserted in the rifle, open the bolt and place the cartridge on the follower. Further proceed in the same manner as when employing the magazine. The single-shot adapter is intended for the highest accuracy levels of shooting as it protects the bullets against damage during the feeding of cartridges.

### **Unloading of the Rifle**

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

- Remove the magazine in the manner as already described
- Move the safety to its "Safety-Off" position in order that the bolt can be opened
- Open the bolt and check to ensure that the cartridge has been extracted from the chamber and ejected
- Close the bolt
- Depress the trigger (dry fire)

### **The Safety and its Operation**

Shift the safety forward to its "Safety-On" position (Fig. 5) until the red dot is fully covered. This procedure locks the trigger mechanism and the bolt, it is not possible to discharge a cartridge or manipulate the bolt.

### **Cocking Indicator Operation**

Cocking of the striking mechanism is indicated by the striker. When the striker is cocked (activated), its rear part protrudes (Fig. 6). This protrusion can be checked both by sight and by touch.

### **Trigger Adjustment**

The trigger pull adjustment is carried out using the adjusting nut after the stock has been removed (Fig. 7).

### **Sight Adjustment**

The CZ 455 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 (Fig. 8). 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 (Fig. 9).

### **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. Shift the safety to its "Off" position, in order that the bolt can be manipulated.
3. Open the bolt, and after depressing the trigger to its extreme rear remove the bolt by moving it rearward.

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.

### **Disassembly of the Bolt**

1. Remove the bolt from the receiver as previously described.
2. Keeping the firm grip of the bolt body rotate the bolt handle to the right (in the same manner as if closing the bolt in the firearm). The main spring is thus released.
3. Place the striker spring support against a suitable solid object (Fig. 10) and push it a little way into the bolt body. At the same time pulling the safety up and out.
4. After detaching the safety, carefully release the bolt while holding the striker spring support. Be very careful when doing this disassembly procedure as the spring support is under main spring tension and its ejection could result in the loss of this part, or could cause an injury.

**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!

**Barrel Exchange**

In case you have bought a rimfire rifle CZ 455 as a set there is an exchangeable barrel in the package which enables you to change the caliber of the rifle. The exchange of the barrel is described below. You can also find the instructions with illustrations on the web pages of Ceska zbrojovka.

1. Disassemble the rifle according to the instructions described in chapter *Stripping for Cleaning - Disassembly*.
2. Unscrew both stock screws, take off the trigger guard together with the trigger guard plate and then take off the stock. When you assemble the rifle after you have changed the barrel the stock screws must be tightened at a torque of 6 Nm.
3. If needed put in/off magazine housing insert and its pin. The magazine housing insert is used only with the caliber .22LR.
4. Loosen the magazine housing rear screw approximately 1-2 turns. The screw must be loosened in order to let the barrel fit perfectly when it is inserted into the receiver so as to impede collisions with the bolt guide. After the barrel is set tight in the receiver it is necessary to tighten the magazine housing screw up!
5. Loosen both barrel screws and take off the barrel. When you assemble the barrel back again you have to tighten the screws at a torque of 5 Nm. Always tighten the barrel screws only after you have tightened the magazine housing screws.

**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. 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.

## 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.

## LIST OF PARTS

1 Barrel	26 Trigger	51 Sling Swivel
2 Front Sight	27 Trigger Rivet	52 Sling Swivel Screw
3 Front Sight Screw	28 Trigger Pin	53 Elastic Spacer
4 Front Sight Cover	29 Trigger Rod Pin	54 Trigger Guard
5 Front Sight Base	30 Trigger Rod	55 Trigger Guard Plate
6 Front Sight Base Screw	31 Trigger Rod Nut	56 -
7 -	32 Trigger Spring Washer	57 Rear Stock Screw
8 Rear Sight	33 Trigger Pull Spring	58 Magazine Shell
9 Rear Sight Screw (2x)	34 Bolt Guide	59 Magazine Follower
10 -	35 Bolt	60 Magazine Follower Spring
11 -	36 Extractor	61 Magazine Base
12 Magazine Housing Insert	37 Holder	62 Magazine Plunger
13 Magazine Housing Insert Pin	38 Extractor Spring	63 Magazine Plunger Spring
14 -	39 Safety	64 Magazine Shell
15 Receiver	40 Bolt Handle	65 Magazine Follower
16 Magazine Housing	41 Striker	66 Magazine Follower Spring
17 Magazine Housing Front Screw	42 Striker Spring	67 Adapter Body
18 Magazine Housing Rear Screw	43 Striker Spring Support	68 Magazine Shell
19 Magazine Catch	44 Stock	69 Magazine Follower
20 Magazine Catch Spring	45 Butt Plate	70 Magazine Follower Spring
21 Magazine Catch Pin	46 Butt Plate Screw (2x)	71 Magazine Base
22 Sear	47 Front Stock Screw	72 Magazine Shell
23 Sear Steel Ball	48 Barrel Screw (2x)	73 Magazine Follower Spring
24 Sear Spring	49 Sling Swivel Assembly (2x)	74 Magazine Follower
25 Sear Pin	50 Sling Swivel Wood Screw	

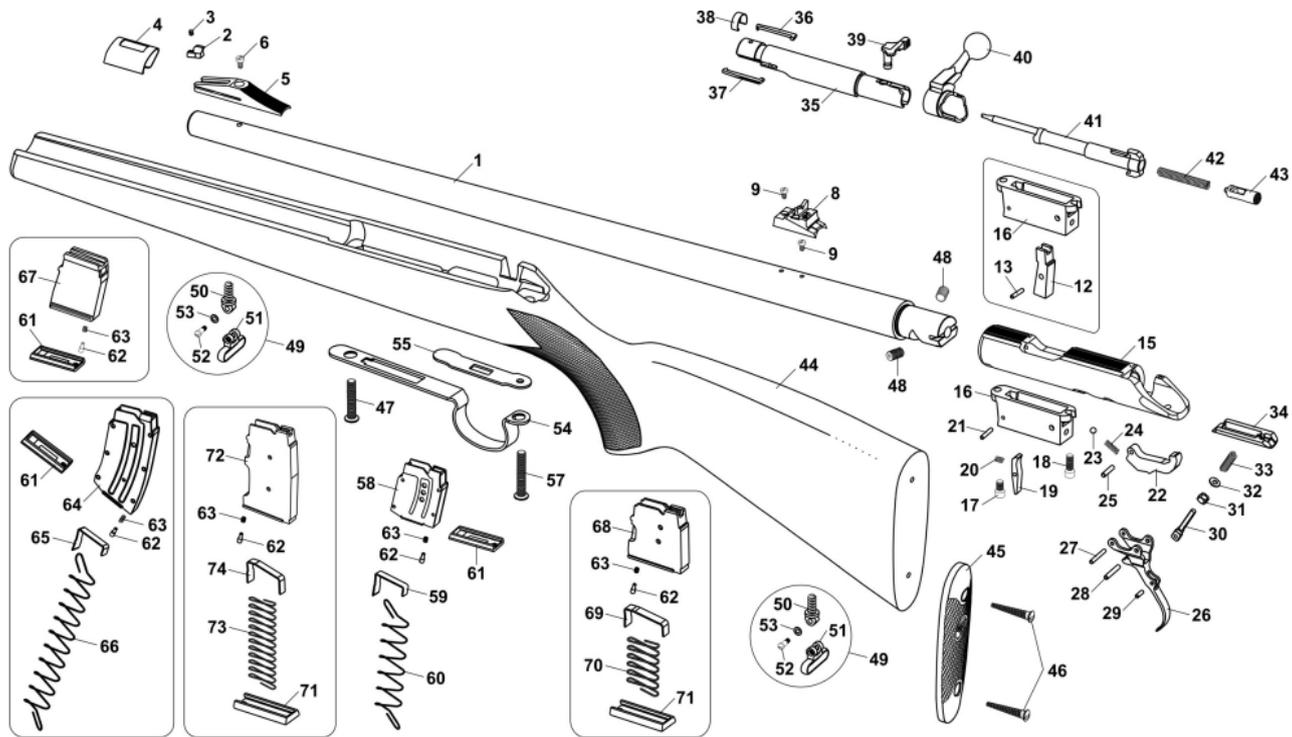
## TECHNICAL SPECIFICATIONS

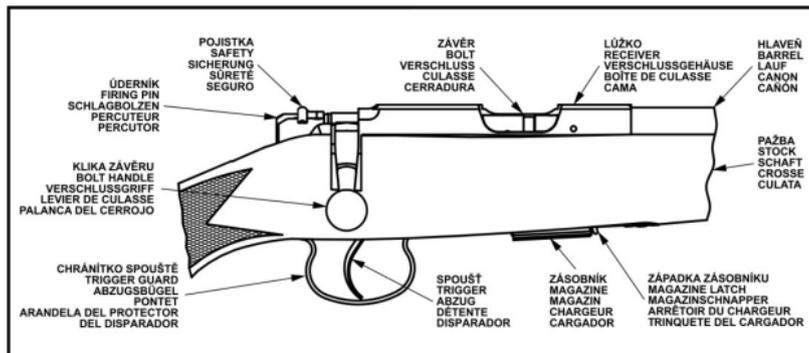
Model		American	Varmint	Standard, Lux, Supermatch
Overall Length	[mm]	980	980	980
Height	[mm]	168	170	215
Width	[mm]	65	69	66
Barrel Length	[mm]	525	525	525
Sight Radius (Open Sights)	[mm]	-	-	406
Weight (Empty Magazine)	[kg]	2,8	3,2	2,8
Magazine Capacity	[cartridges]	.22 LR: 5/10    .22 WMR: 5/10    .17 HMR: 5/10		
Trigger Pull, Adjustment Range	[N]	15 - 18		

**LIST OF ILLUSTRATIONS**

1. The Names of Basic Parts
2. Magazine Removal
3. Magazine Loading
4. Loading of the Rifle
5. Detailed View of the Safety
6. Cocking Indicator Operation
7. Trigger Pull Weight Adjustment
8. Rear Sight with Fixing Screws ("H" for Horizontal, "V" for Vertical Shift)
9. Detailed View of the Front Sight Screw
10. Disassembly of the Bolt

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.





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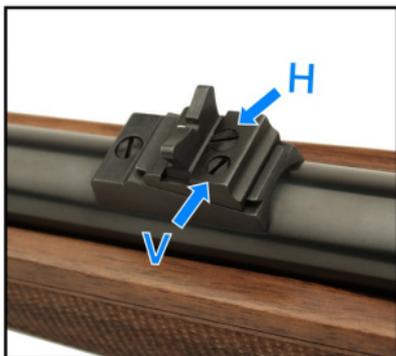
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