

# CZ 200 INSTRUCTION MANUAL

**PLEASE READ THIS MANUAL BEFORE USING YOUR NEW RIFLE, IT CONTAINS IMPORTANT SAFETY INFORMATION AND INSTRUCTION ON HANDLING, ADJUSTMENT AND MAINTENANCE.**

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

Before leaving the factory the air gun was tested, carefully inspected and packed. The manufacturer cannot control manipulation with the air gun after leaving the factory. Therefore examine please the gun carefully at the time of purchase to ensure that it is unloaded and undamaged.



## **SAFETY INSTRUCTIONS.**

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

1. Always treat the gun as if loaded.
2. Always keep the gun muzzle pointed in a safe direction; never point your gun at anything you do not intend to shoot, even if unloaded.
3. Never take anyones word the gun is unloaded.
4. Always make sure your gun is not loaded before laying it down or handing to another person.
5. A gun not in use should always be unloaded and uncocked.
6. Never abuse your gun by using it for any purpose other than shooting.
7. Only load or cock the gun when you are shooting.
8. Always keep the gun muzzle clean and clear of obstructions.
9. Always use only clean, original quality manufactured ammunition appropriate to the calibre of your gun.
10. Never drink alcoholic beverages or take drugs before or during shooting.
11. Never squeeze the trigger or put your finger in the trigger guard until you are aiming at the target and ready to shoot.
12. Before you squeeze the trigger check your target and the area beyond it. The pellet could travel through or past your target.
13. Avoid ricochet. Never shoot at a flat hard surface or at the surface of water.
14. Never indulge in 'horseplay' while holding your gun.
15. Always make sure your air gun is not loaded before cleaning, storing or travelling.
16. Always store your air gun and ammunition separately, beyond the reach of children and trespassers.
17. Never alter parts of your air gun as its safety and proper function can be compromised.
18. Always be aware that corrosion, use of damaged ammunition, dropping the gun on a hard surface or other rough handling could cause damage you may not see.

## AIR RIFLE DESCRIPTION AND TERMINOLOGY

The names of all air rifle parts are given in the chapter *Illustration and parts list*.

Series CZ200 pcp (pre-charged pneumatic) air rifle is a result of the close co-operation between Ceska-Zbrojovka and Air Arms.

These guns, involving a compact receiver with a fixed or removable compressed air reservoir, feature accurate, consistent and recoilless behaviour that will be appreciated mainly by the wide spectrum of young and beginning shooters.

The basic CZ200 S versions are made in calibre .177 (4.5mm) or .22 (5.5mm) with a muzzle energy of 12ftlb (16 joules).

**Model CZ 200 S pcp air rifle can be designated also as Model AA S 200.**

The target style model CZ 200 T, made in calibre .177 (4.5mm), is designed mainly for training and basic competition shooting. Design of the air rifle complies with ISSF rules.

**Model CZ 200 T pcp air rifle can be designated also as Model AVANTI Valiant.**

CZ 200 pcp air rifles are based on a modular concept, containing following sub-assemblies (fig 1.)

\* *Receiver (A)* involves an adjustable trigger mechanism, single shot cocking/loading mechanism and an adjustable striking device. The receiver body enables installation or change of various components. Manual safety is not available on current products.

\* *Compressed air reservoir (B)* can be pressurized either by means of a quick release coupling or through the striking valve input, if the filling connector is fitted.

\* *Barrel assembly (C)* based on the precision rotary swaged barrels in calibers .177 or .22 with 12 grooves and conical choke.

\* *two-piece stock (D)* is made of beech and comes in fixed or adjustable formats.



Fig 1.

### CAUTION!

The compressed air reservoir was carefully assembled, adjusted and tested as a pressure vessel by the manufacturer. Therefore any dismantling by the customer must be avoided. Do not pressurize the cylinder if there are any surface abrasions or dents. Do not store the rifle in places with, or near sources of high temperature. Contact manufacturer for advice in any trouble relating to the compressed air reservoir will occur or entrust it to a competent air rifle repair shop. The manufacturer cannot carry the responsibility for damage caused by unauthorized manipulation.

### Warning note concerning 300 Bar bottles.

With the advent of the 300 bar bottle it should be noted that care has to be taken when filling your rifle.

The filling procedure described in this manual must be followed to avoid damage to the rifle, particularly the slow opening of the valve on the bottle. Opening the valve quickly will allow up to 300 bar of pressure into the cylinder at once, this could cause serious personal injury or irreparable damage to the cylinder.

## OPERATING INSTRUCTIONS

### Ammunition

For shooting use only quality pellets in calibers .117 and .22.

### Reservoir filling

USE ONLY CLEAN, FILTERED AND DRY COMPRESSED AIR.

For filling the compressed air reservoir use only a compressed air bottle, compressor or mechanical pump complying with your country's requirements on manipulation with such devices and limited to 230 bar operation. The reservoir is hydraulically tested by the manufacturer at 300 bar, **DO NOT ATTEMPT TO EXCEED TO 200 BAR AIR PRESSURE.** In the interest of safety the compressed air reservoir has a safety device that operates at approximately 250 bar. Once operated (indicated by the deforming of the cylinder) the reservoir is beyond further use and must be replaced.

NOTE: Filling to a higher pressure will not increase power and may damage the mechanism. Filling to lower pressures will not decrease power just the number of shoots. If the rifle is continually fired when the pressure in the reservoir is below refill pressure (less than 60 bar) the remaining air will eventually escape through the barrel. This is not harmful to the rifle but can cause surprise to yourself or bystanders.

NOTE: The rifle must be unloaded when refilling or replacing the reservoir.

#### Filling the reservoir by the quick release coupling (Fig 2.)

This type of reservoir (only on models AA S 200) can be filled on the gun after removing the dust cover.

- \* Connect the coupling at the hose (A) from the compressed air bottle (or other pressurized device) with the coupling connector located at on the reservoir.
- \* Check that the release screw (C) on the adapter (B) is closed.
- \* **Slowly** open the main bottle valve (D) and feed the air in the reservoir until the pointer on the gauge (E) reaches 190 bar.
- \* Close the bottle valve.
- \* Turn the air release screw to release the air in the hose.
- \* Disengage the quick release coupling.

The compressed air reservoir and the gun are ready to use.

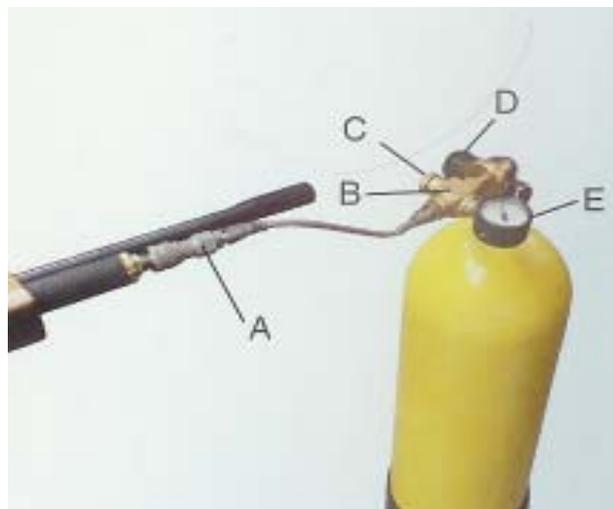


Fig 2

Filling the reservoir with the air pressure gauge (fig 3.)

This type of reservoir must be first removed (unscrewed) from the gun.

\* Screw the reservoir (A) on the adaptor (B) attached to the valve of the compressed air bottle.

\* Check that the release screw on the adaptor is closed.

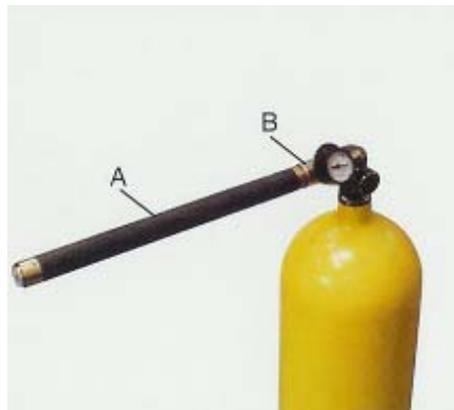
\* **Slowly** open the main bottle valve and simultaneously check the pointer on the pressure gauge. As soon as it approaches 170 bar on the CZ 200 T and 190 bar on the CZ 200 S close the valve.

\* Check again the value indicated by the pressure gauge.

\* Turn the release screw to release the air in the adaptor.

\* Unscrew cautiously the reservoir from the adaptor.

The reservoir is ready to be screw into the gun.



**Sight adjustments**

The sights should be fitted to the 3/8 dovetail and adjusted according to the instruction manual accompanying the sights.

**Pellet velocity (energy)**

Models CZ 200 S can be set for a pellet muzzle energy up to 12ftlb (16 joules). According to the purpose of use, the rifle performance can be optimized for specific pellets. If the rifle is adjusted it must be check over a chronograph.

Models CZ200 T are set for a muzzle energy of 5.5 ftlb (7.5 joules).

**WARNING.**

**It is a very serious offence to be in possession of a over powered rifle.**

## **Adjustment of the trigger mechanism**

### Striking point adjustment

The trigger mechanism is set by the manufacturer for the two stage weight, 1st stage up to 3 N and the 2nd stage over 5 N. The engagement of the trigger lever and the 1st stage weight are not recommended to change from original.

### Trigger play, pull and position adjustment

The trigger play can be controlled by M3x6 screw, which is located in the front side of the trigger base (Fig 4.).

2nd stage trigger weight can be controlled by the adjustment screw located behind the trigger guard.

The position of the trigger can be changed by shifting it on the trigger base after releasing the clamping screw.

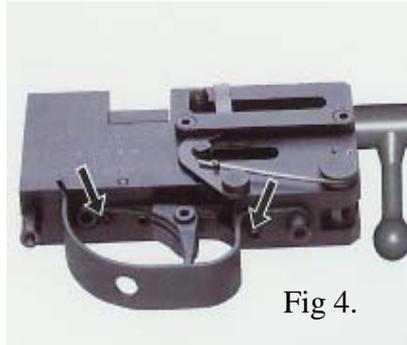


Fig 4.

## **Cocking and loading the rifle**

**WHEN LOADING ALWAYS KEEP THE RIFLE POINTING IN A SAFE DIRECTION**

Holding the gun securely, grasp the bolt handle and rotate counter-clockwise and pull toward the rear of the gun. The bolt will remain open when it reaches the full rear position, the trigger mechanism will be engaged (Fig 5.).



Fig 5

If the bolt is gripped with the thumb on the other side, the cocking action will be smoother.

The proper calibre pellet can be inserted into the pellet channel (Fig 6). Beware of its proper orientation.

Push the loading bolt right the way forward and at the end of the stroke turn clockwise until locked. The pellet is loaded in the barrel and the striking mechanism is cocked. Check if the cocking arm has returned under action of the cocking arm spring to the initial position. The gun is now ready to shoot.

**CAUTION. The gun has no trigger safety.**

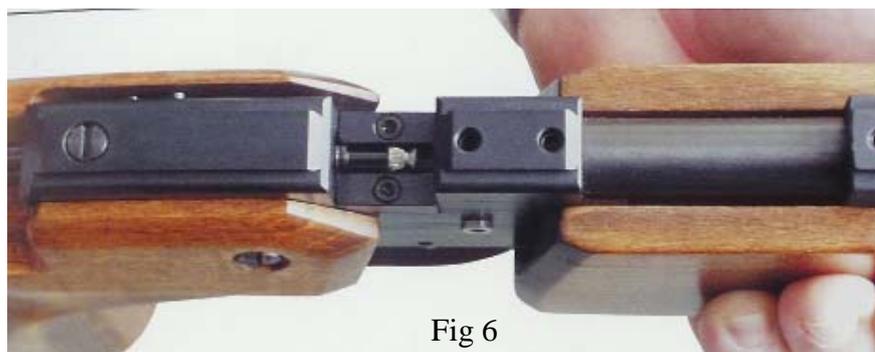


Fig 6

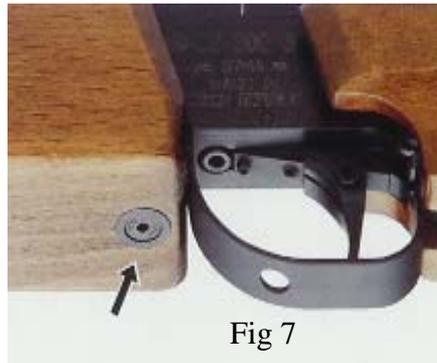
## MAINTENANCE INSTRUCTIONS

### Disassembly for cleaning

ALWAYS KEEP THE RIFLE POINTING IN A SAFE DIRECTION.

The CZ 200 is based on a modular concept, consisting of sub assemblies shown in Fig 1. To dismantle the rifle into the sub assemblies follow this procedure.

- \* Loosen the fore-end screw by the socket screw key (Fig 7). After it is unscrewed the fore end stock can be slid forwards and removed.
- \* The cylinder can be unscrewed by hand and removed.



\* The barrel assembly can be removed after loosening the two M5x6 socket head screws situated in the front part of the receiver (Fig 8).

\* The butt stock can be taken apart by means of a screwdriver after loosening the right side stock screw and unscrewing the nut situated in the pistol (Fig 9).

The gun is now ready for cleaning.

### Caution

Do continue dismantling the sub assemblies as they were preset by the manufacturer and unauthorized disassembly may damage the gun.



### **Assembling the rifle.**

- \* Insert the barrel assembly in the receiver and fix by means of two screws.
- \* The cylinder can be screwed in by hand.
- \* slide on the fore end stock and fix with screw.
- \* Refit the butt stock and tighten the screws.

### **Cleaning the bore and pellet chamber.**

For ultimate accuracy clean and re-lube the barrel frequently.

Correct materials for this purpose are very important, therefore use products recommended by air rifle specialists in relevant countries. Cleaners and oils intended for firearms are not suitable for air rifles.

For cleaning we recommend the following procedure.

- \* Cut a piece of nylon fishing line 3 times the length of your barrel, fold it in half and tie the ends together.
- \* Open the loading bolt.
- \* Feed the looped end down the barrel from the muzzle end until it protrudes at the breech.
- \* Pass a piece of cleaning cloth through the loop, apply a small amount of gun cleaner to the cloth and pull through the barrel.
- \* Repeat this with clean cloth until the cloth comes out clean.
- \* Now repeat this process once using a small amount of gun oil.

### **Cleaning other parts of the rifle.**

Clean the rest of the rifle with a soft oily cloth.

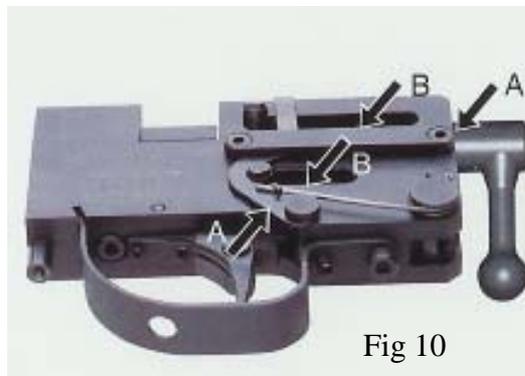
### **Lubrication (Fig 10)**

Lubrication of the internal mechanism should not be required until the annual service.

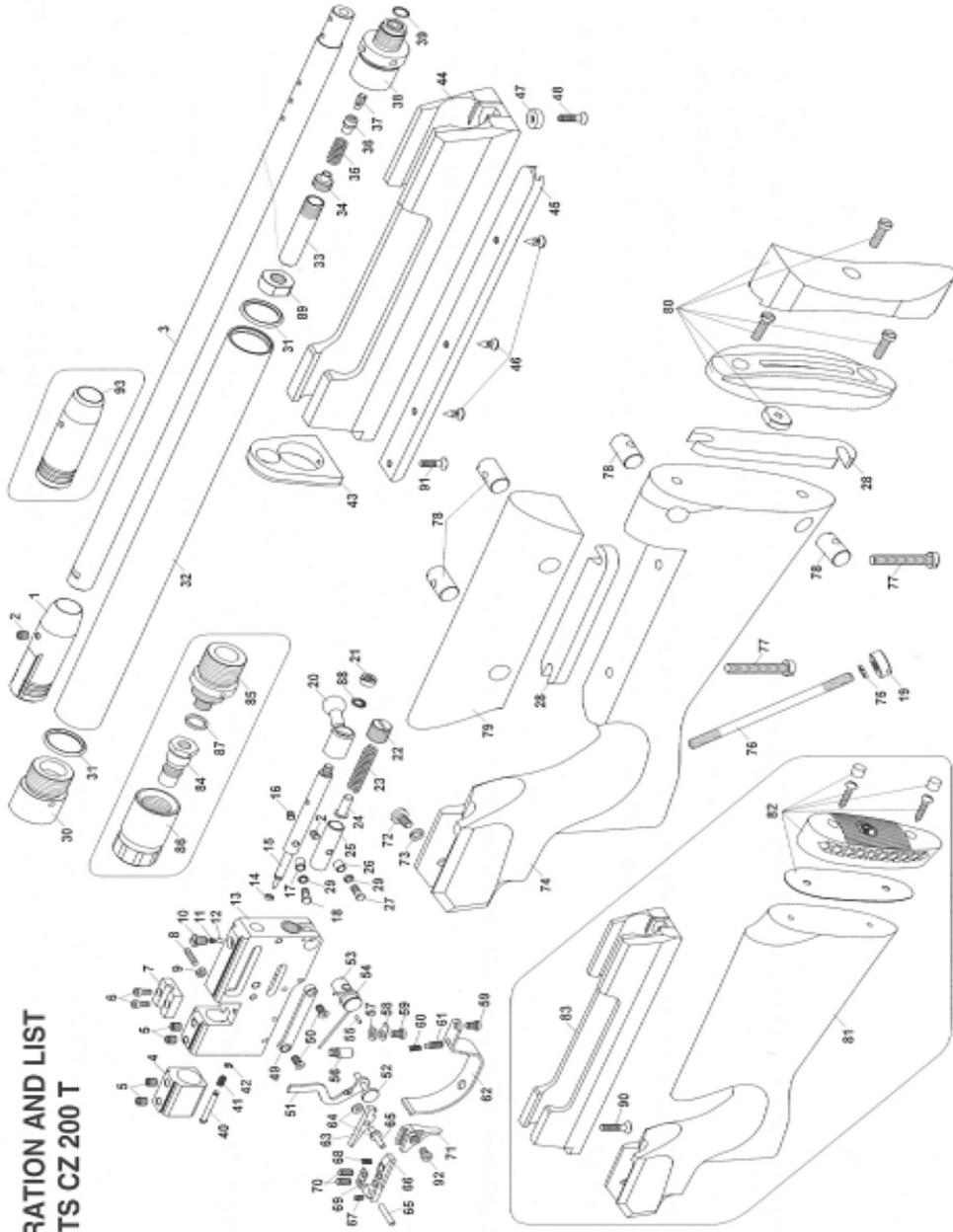
A small dab of gun grease may be applied to the loading bolt and cocking arm (A). Work them by moving them forwards and backwards.

A small drop of the gun oil may be applied to the striker (B).

*Keep your gun in a dry dust free environment. Regular care and proper handling will keep your gun as new and its functioning will not be compromised.*



**ILLUSTRATION AND LIST  
OF PARTS CZ 200 T**



1	Muzzle Extension	53	Nut Socket
2	M4x5 Screw	54	Cocking Arm Spring
3	Barrel	55	1.6x8 Spring Pin
4	Sight Base	56	Fastening Screw
5	M5x6 Screw	57	4x8 Seal Ring
6	Pellet Channel Screw	58	Latch Washer
7	Pellet Channel	59	trigger Screw
8	M3x12 Screw	60	Trigger Lever Spring
9	M3 Nut	61	Adjustment Screw, Rear
10	Ball Catch Screw	62	Trigger Guard
11	Ball Catch Spring	63	Trigger Lever
12	3mm Steel Ball	64	Distance Washer
13	Receiver Body	65	Pin
14	3x1 'O' Ring	66	Trigger Base
15	Loading Bolt	67	M3x6 Screw
16	M4x4 Screw	68	Trigger base Spring
17	Roller Bush	69	Locking Washer
18	Screw, Loading Bolt	70	Adjustment Screw Front
19	Nut	71	Trigger
20	Bolt Handle	72	Stock Side Screw
21	M6 Bolt Handle Nut	73	5mm Washer
22	Adjustment Screw	74	Butt Stock
23	Main Spring	75	6mm Washer
24	Main Spring Guide	76	Connecting Screw
25	Striker	77	M5x45 Screw
26	Roller Bush	78	Roller
27	Screw, Cocking	79	Cheek Piece
28	Washer 4 or 8	80	Adjustable Butt Pad
29	Roller Bush	88	Lock Washer
30	Pressure Gauge	89	Latching Nut
31	21x2 'O' Ring, Cylinder	91	M4x10 Screw
32	Cylinder Tube	92	M4x8 Screw
33	Pot		
34	Valve Cap		<b>CZ 200 S Different Parts</b>
35	Valve Spring	81	Solid Butt Stock
36	Firing Valve Seat	82	Ventilated Rubber Butt Pad
37	Firing Valve Gate	83	Single Fore-End Stock
38	End Plug, Firing Valve	90	M4x16 Screw
39	6.5x2 "o" Ring, Plug	93	Muzzle Extension Sporting
40	Striking Pin		
41	Striking Pin Spring		<b>AA S 200 Different Parts</b>
42	1.9mm Retaining Pin	81	Solid Butt Stock
43	Supporting Bracket	82	Ventilated Rubber Butt Pad
44	Fore-End Stock	83	Single Fore-End Stock
45	Fore-End Rail	84	Filling Connector
46	3.9x9.5 Wood Screw	85	Filling Connector End Plug
48	Fore-End Stock Screw	86	Connector Cover
49	Cocking Arm Guide	87	Washer
50	Cocking Arm Guide Screw	93	Muzzle Extension Sporting
51	Cocking Arm		
52	Pivot, Cocking Arm		

## TROUBLESHOOTING.

When properly used and maintained there is minimum probability of trouble.  
If a problem occurs try the following.

### Caution:

If a problem occurs during shooting the probability of an unwanted discharge will rise.  
Therefore extra care must be taken when troubleshooting.

**ALWAYS KEEP THE RIFLE MUZZLE POINTING IN A SAFE DIRECTION.**

Problem	Probable cause	Troubleshooting.
The gun didn't discharge after pulling the trigger	The bolt is insufficiently cocked	Repeat bolt cocking procedure.
	The pellet is inserted incorrectly	Disassemble the barrel and carefully remove the jammed pellet.
	Insufficient air pressure in the cylinder.	Refill the cylinder.
After cocking the bolt to the rear position the striking mechanism is not retained.	Damage or change of adjustment to the trigger mechanism.	Gun should be sent for repair.

Model	CZ 200 S	CZ 200 T
Caliber	.177 (4.5mm) or .22 (5.5mm)	.177 (4.5mm)
Overall Length	907mm	872 - 928mm
Distance between trigger (in rear position) and stock end.	360mm	320-336...short stock 340-356... medium stock 360-376...long stock
Rifle height w/o sights	165mm	180mm
Overall width	53mm	53mm
Barrel length	485mm	485mm
Rifling	12 R/H grooves	12 R/H grooves
Rifling pitch	1 turn in 450mm	1 turn in 450mm
Total weight	2.80kg	3.0kg
Reservoir volume	122ml	122ml
Filling pressure	190bar	170bar
Muzzle energy	16 Joules (12 ftlb)	7.5 joules (5.5ftlb)
Trigger pull	2 stage adjustable	2 stage adjustable