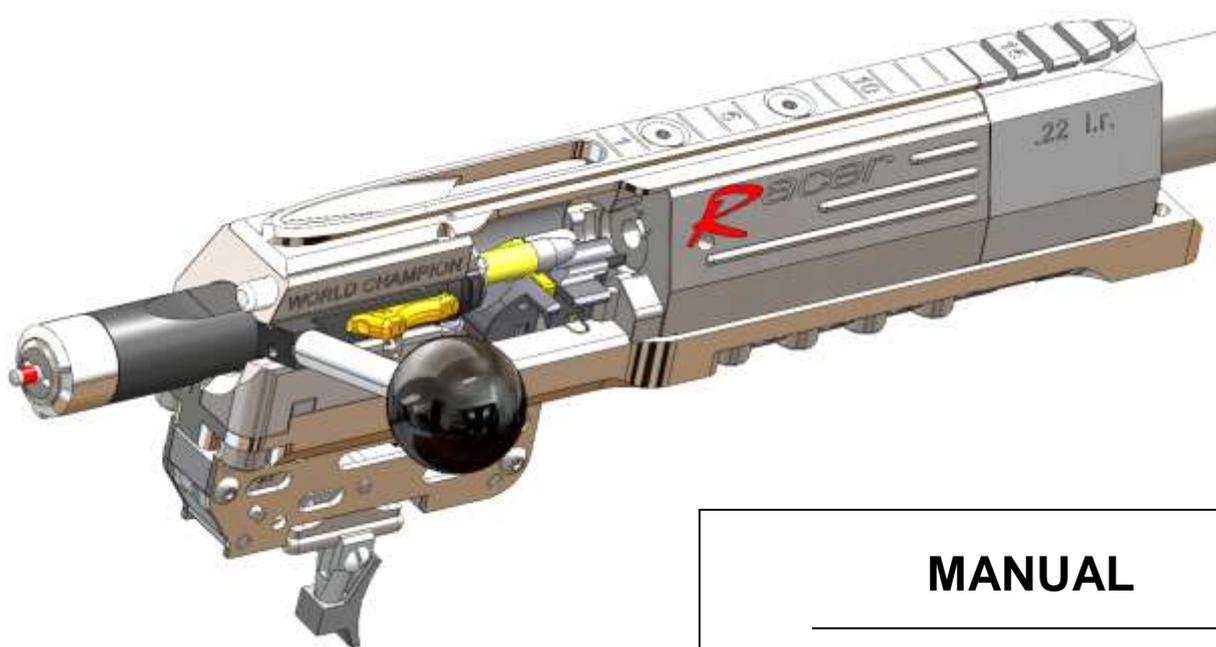


Racer

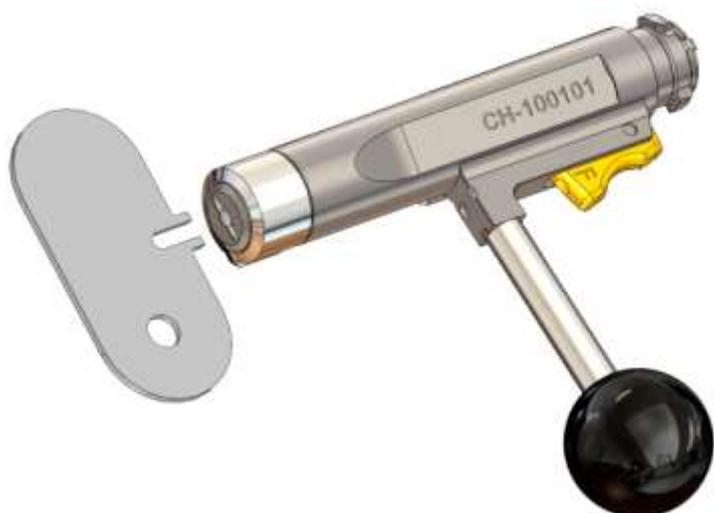
WORLD CHAMPION

SMALL BORE RIFLE .22 l.r.



MANUAL

Bolt Assembly



Bolt Assembly

- General information	Page 2
- Safety and dry fire mechanism	Page 3
- Firing pin cocked, safe, decoked	Page 4
- Bolt release	Page 4-5
- Bolt disassembly	Page 4
- Tighten bolt handle	Page 5
- Bolt assembly	Page 6-7
- Changing the firing pin spring	Page 8-9
- Parts list of bolt assembly	Page 10
- Exploded view of bolt assembly	Page 11

Dear Target Shooter

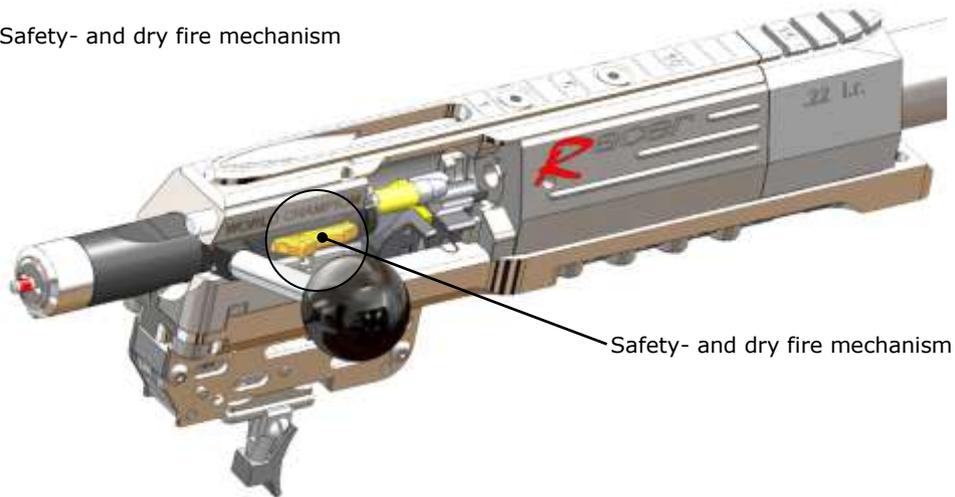
Congratulations on the acquisition of your new target rifle. Our rifles are used worldwide with great success. We are convinced that your decision was easy. Our products fulfill the highest engineering standards and are manufactured with the latest product technology.

Please carefully read the following before using your new rifle:

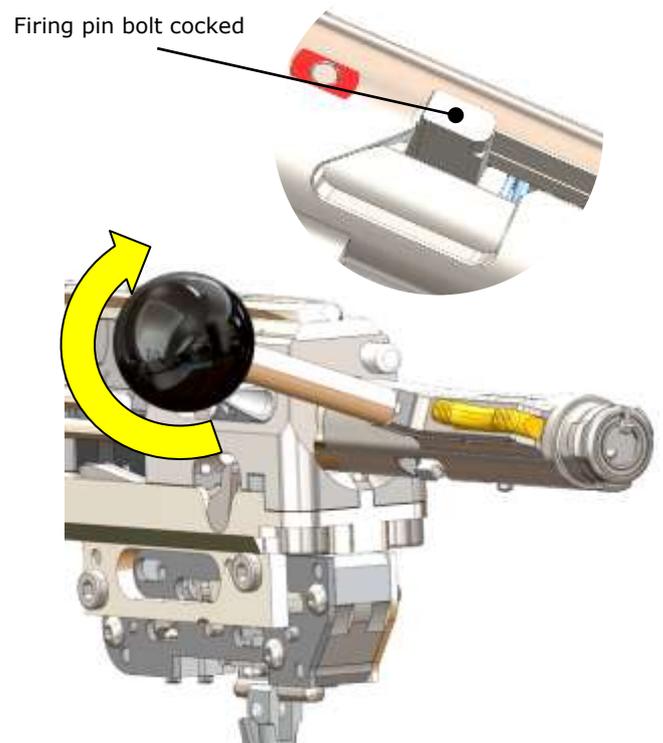
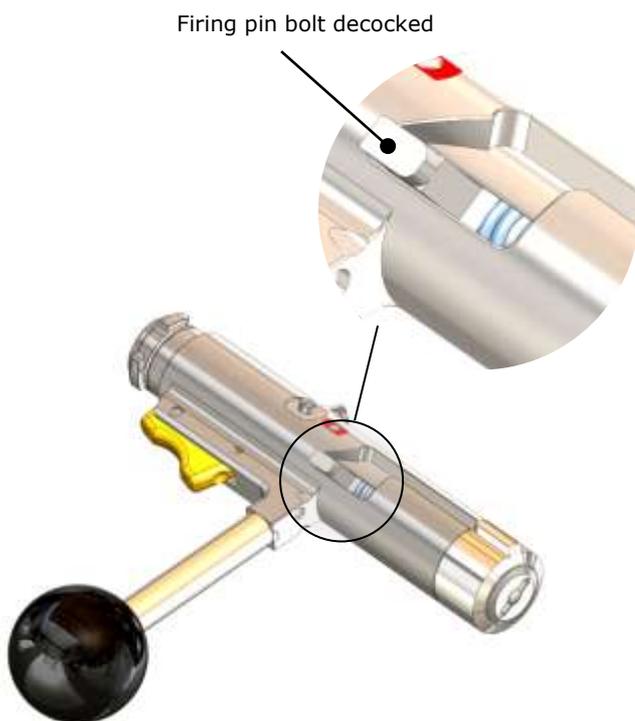
1. Always consider a rifle loaded until you personally checked that it is not. Make sure the action is open when you carry the rifle around so everybody can see that your rifle is unloaded.
2. Make sure the muzzle is always pointed downrange or in a safe direction!
3. Always make sure that you are using the correct ammunition for your rifle.
4. Before shooting always check to see that your barrel is not obstructed.
5. The safety lever must always be pushed all the way in either "safe" or „ready to fire" position (F)! Always keep your rifle on "safe" until you are ready to fire. Make sure there is nothing between the muzzle and the target before you release the safety lever. Always keep the finger off the trigger until you are ready to shoot.
6. Except for cleaning, your rifle should only be disassembled by an authorized gunsmith.
7. The life of your rifle and your barrel depends on proper care. Please carefully follow the instructions in your rifle's manual.
8. Target rifles should only be used by an experienced shooter or under the supervision of such an individual.

(190511/1757)

Safety- and dry fire mechanism



Should the firing pin bolt be decocked, it can be easily cocked by inserting the bolt in reverse into the action and turning the bolt handle clockwise.



Firing pin cocked



Firing pin cocked but secured

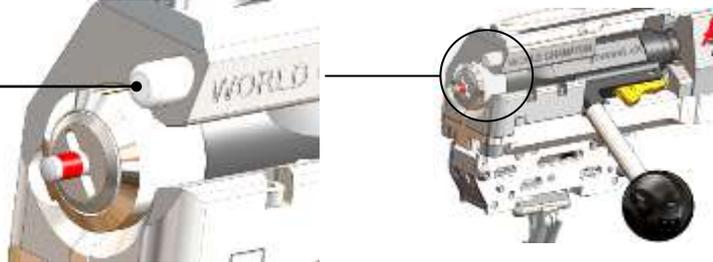


Firing pin decocked



Bolt release

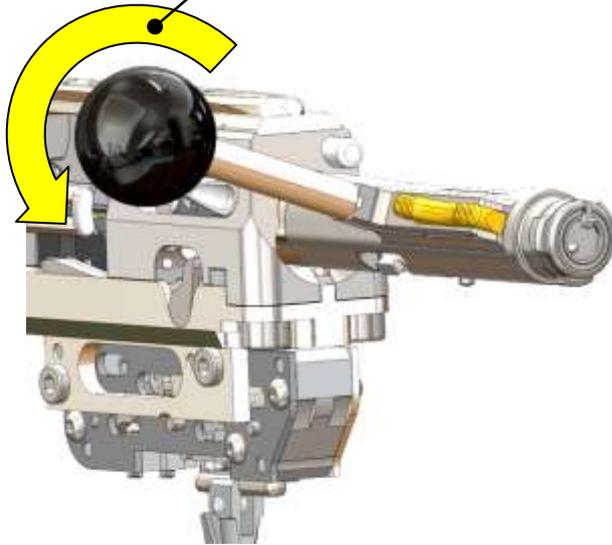
Push to release bolt



Bolt disassembly

The bolt can be easily disassembled. Please proceed in the following sequence as illustrated below. Decock the firing pin. Press the **safety switch to the firing position (F)**.

Decock firing pin counter clockwise

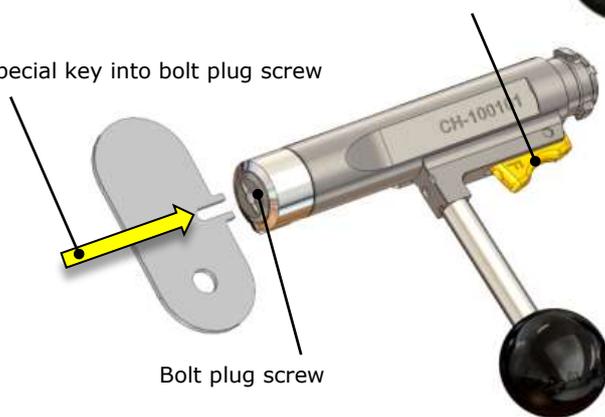


Firing pin bolt decocked



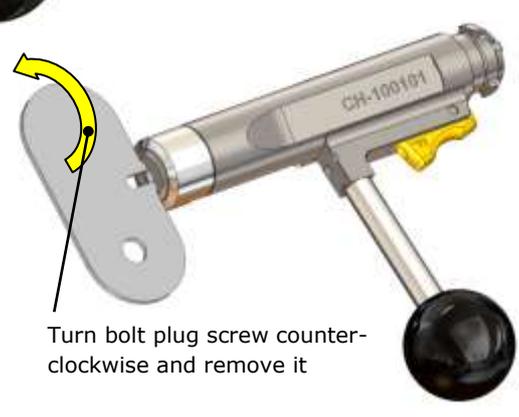
Press **safety switch to the firing position (F)**

Insert special key into bolt plug screw

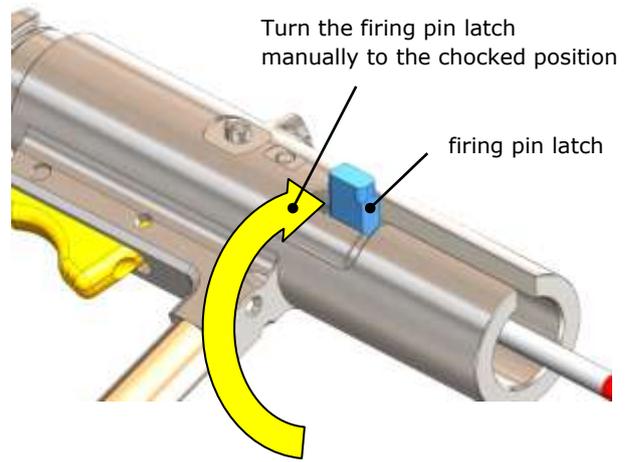
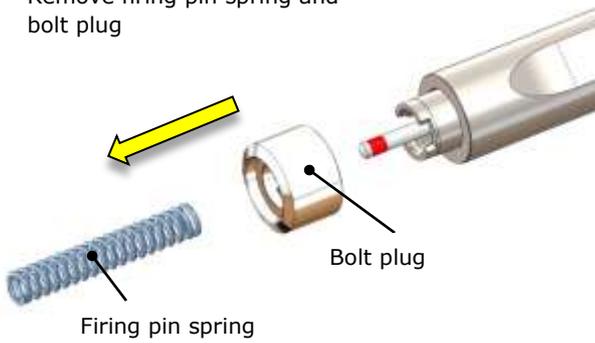


Bolt plug screw

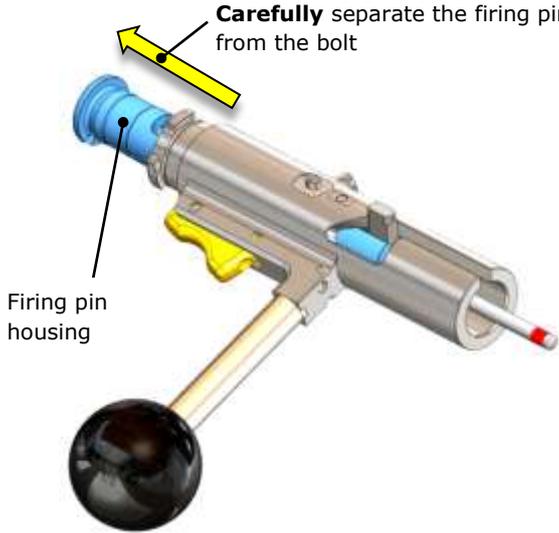
Turn bolt plug screw counter-clockwise and remove it



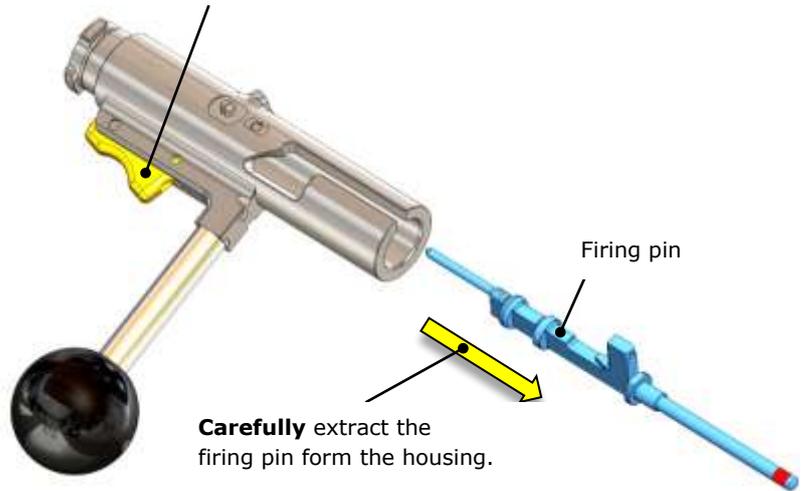
Remove firing pin spring and bolt plug



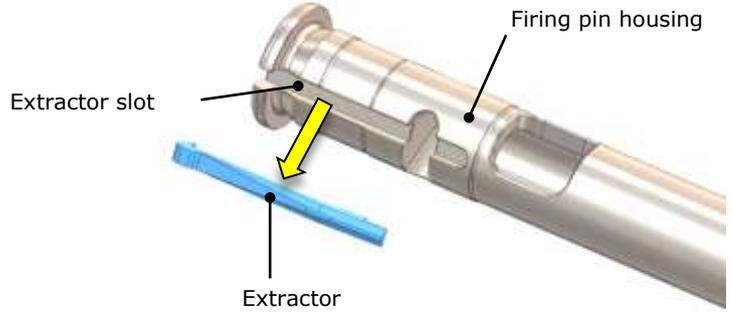
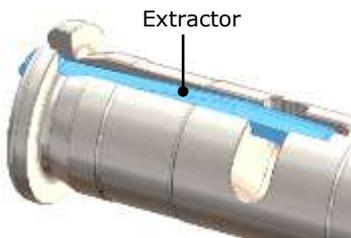
Carefully separate the firing pin housing from the bolt



The safety switch **must be unlocked and switched to F**, otherwise the firing pin cannot be extracted

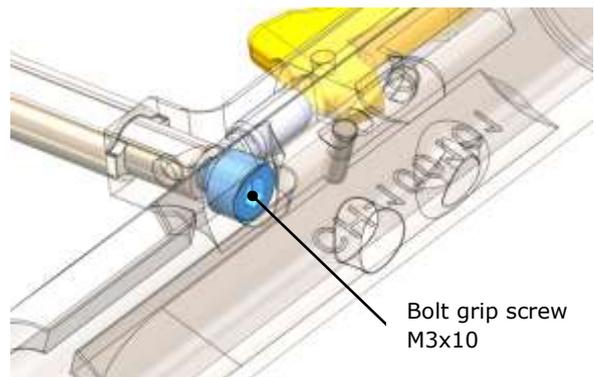
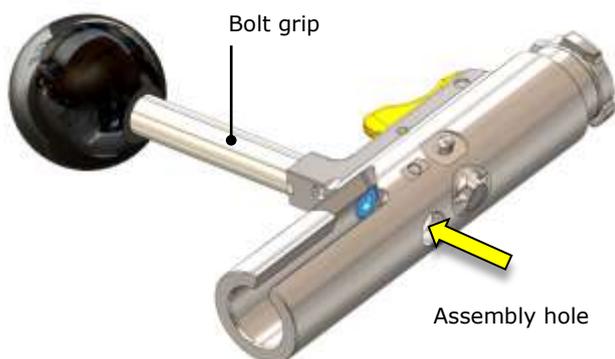


Watch out: The extractor sits loosely in a slot of the firing pin housing.



Tighten the bolt grip

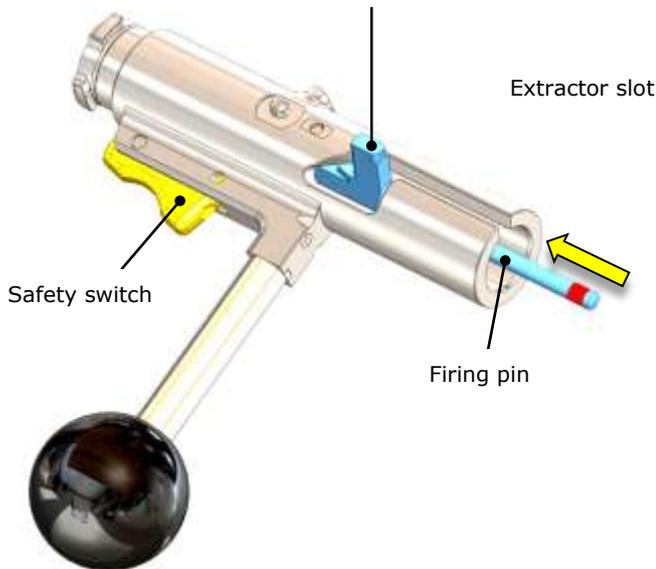
A loose bolt grip can be tightened through the assembly hole.



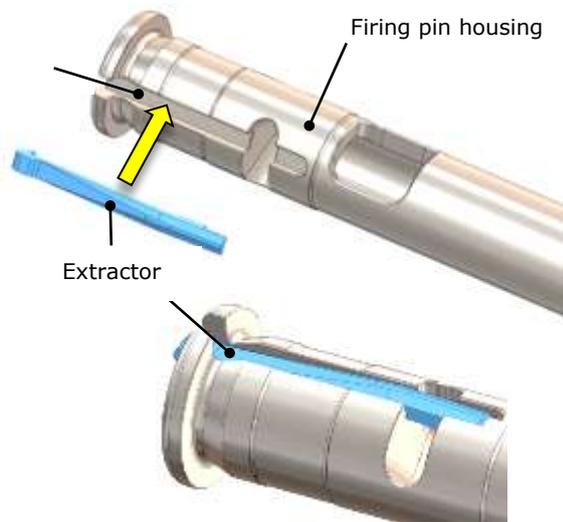
Bolt assembly

The bolt is **assembled** by using the above steps in **reverse**. Please follow exactly the sequence illustrated. Make sure the **safety switch is in the firing position (F)**.

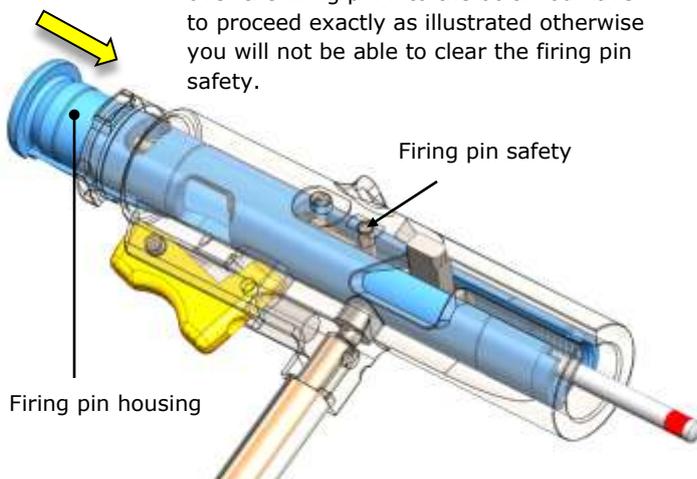
Switch safety to the **firing position (F)**, slide firing pin **carefully** into the cocked position



Put extractor into the extractor slot

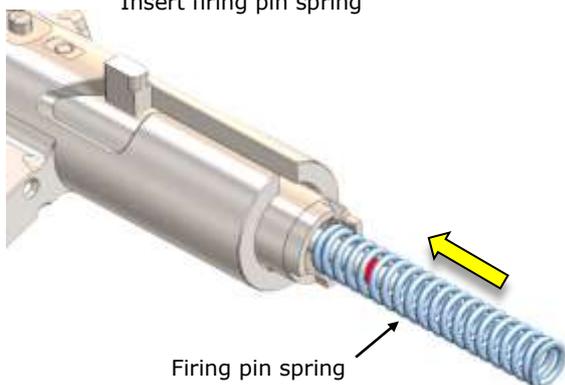


Insert the firing pin housing **carefully** over the firing pin into the bolt. You have to proceed exactly as illustrated otherwise you will not be able to clear the firing pin safety.

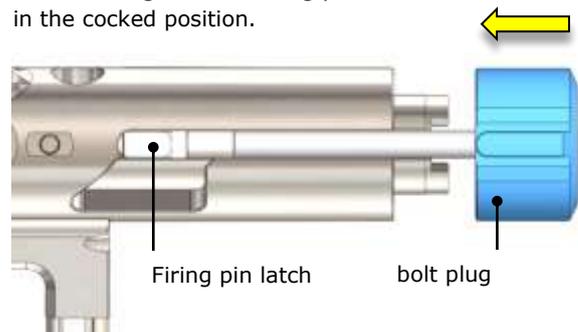


Check if the extractor is installed correctly

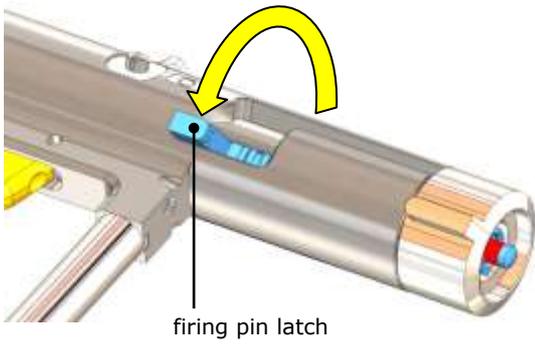
Insert firing pin spring



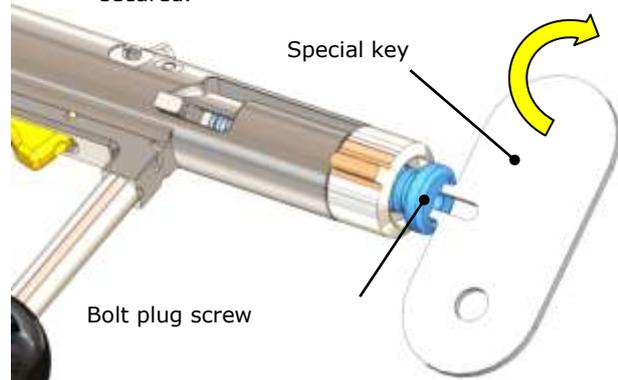
Slide the bolt plug over the firing pin while making sure the firing pin is still in the cocked position.



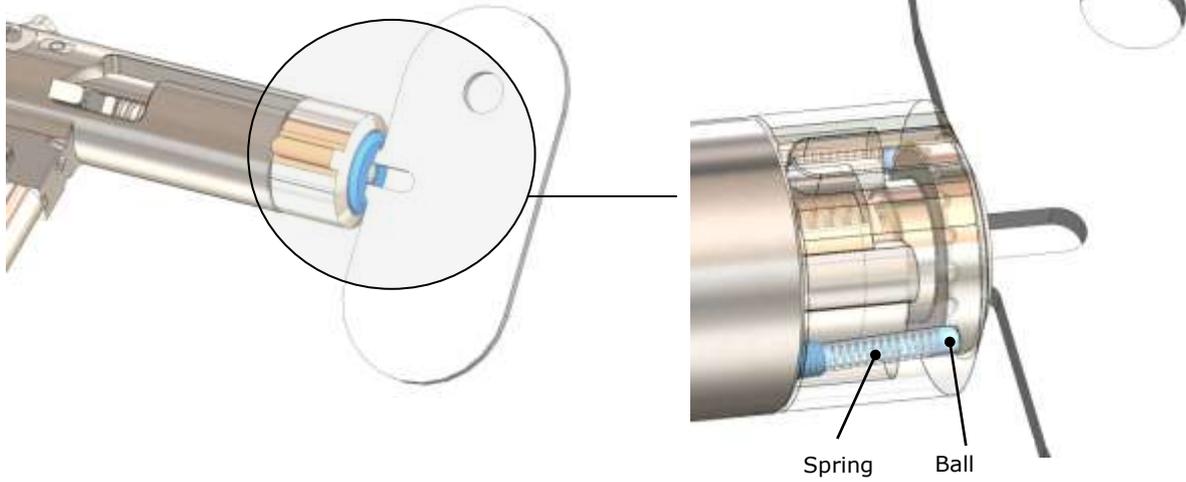
Slide the firing pin latch **carefully** into the decocked position.



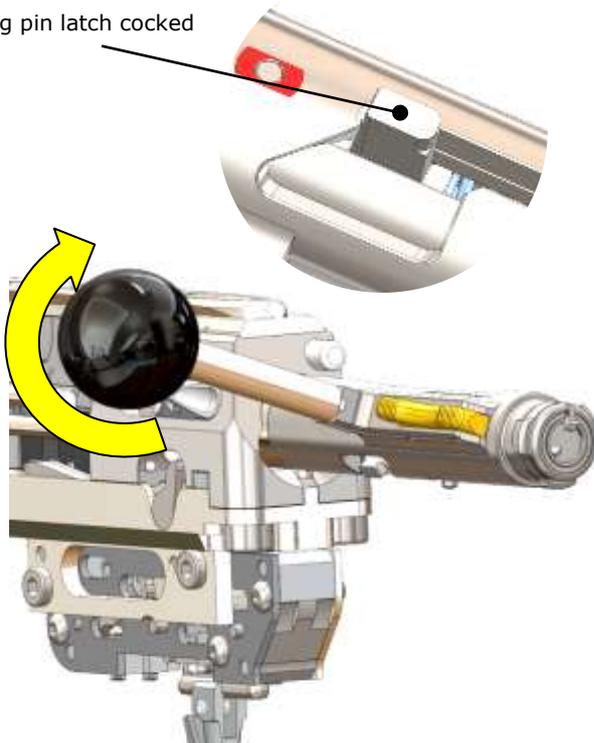
Insert the special key into the bolt plug screw and turn it clockwise until the screw is secured.



The bolt plug screw is secured from loosening by two spring loaded balls.



Firing pin latch cocked

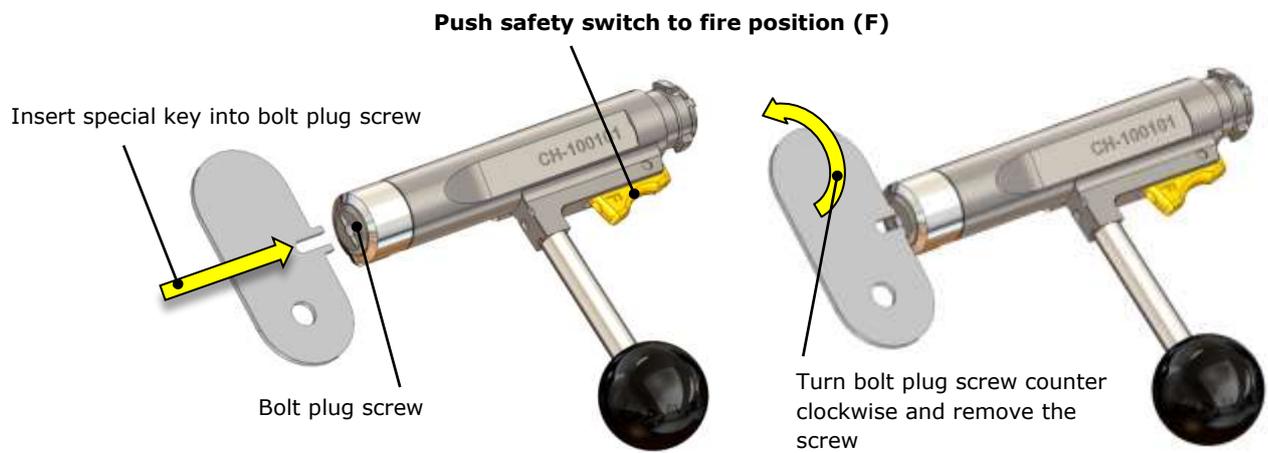
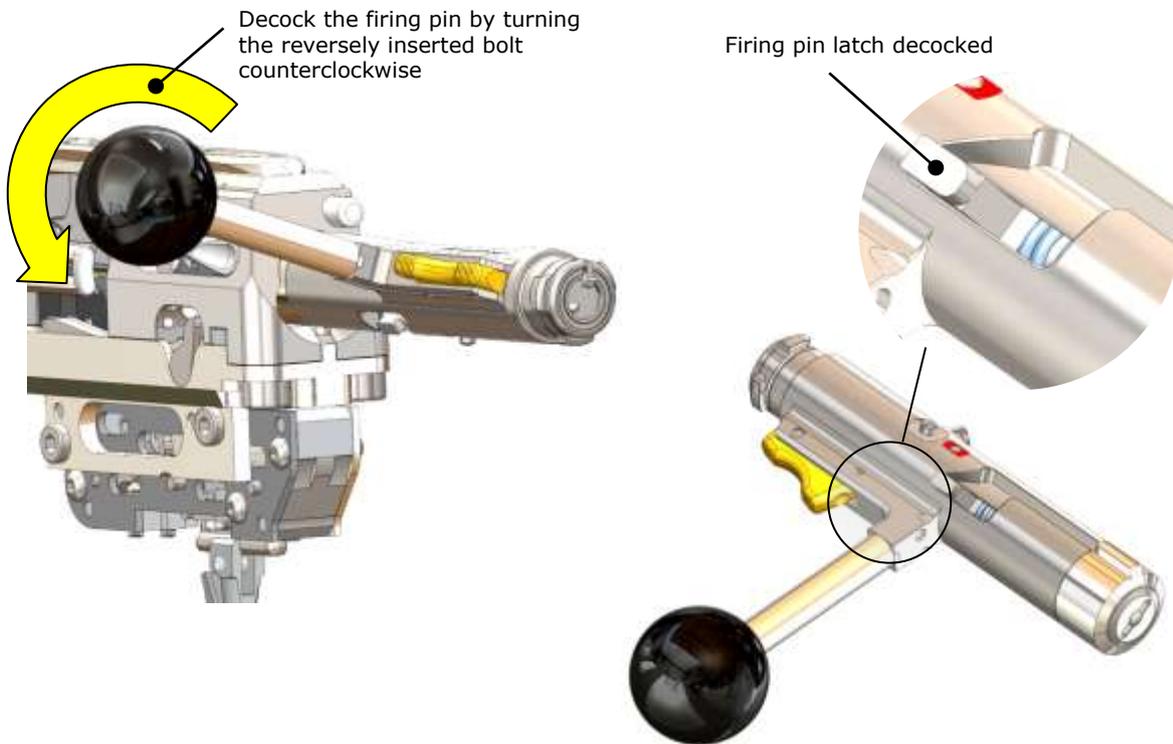


Cock the bolt as illustrated and switch the safety switch to the "safe!" position.

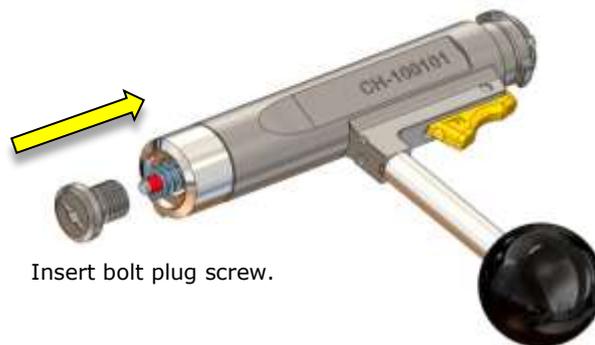
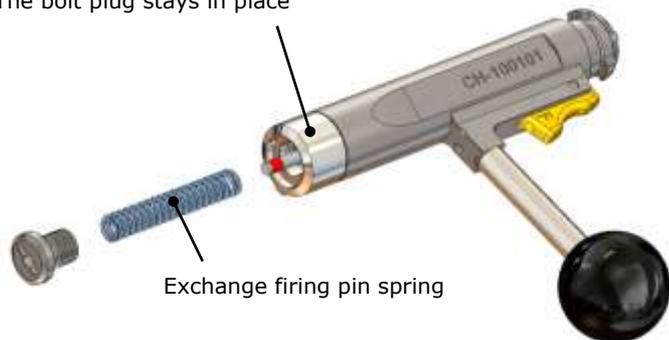


Changing the firing pin spring

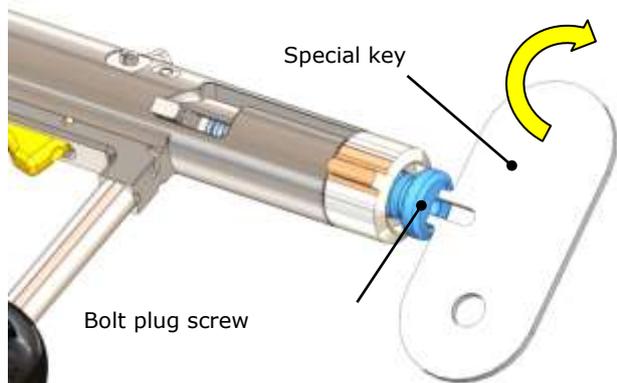
Change the firing pin using the following steps:



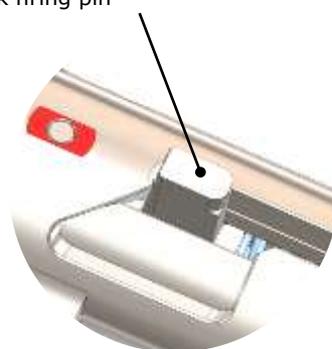
The bolt plug stays in place

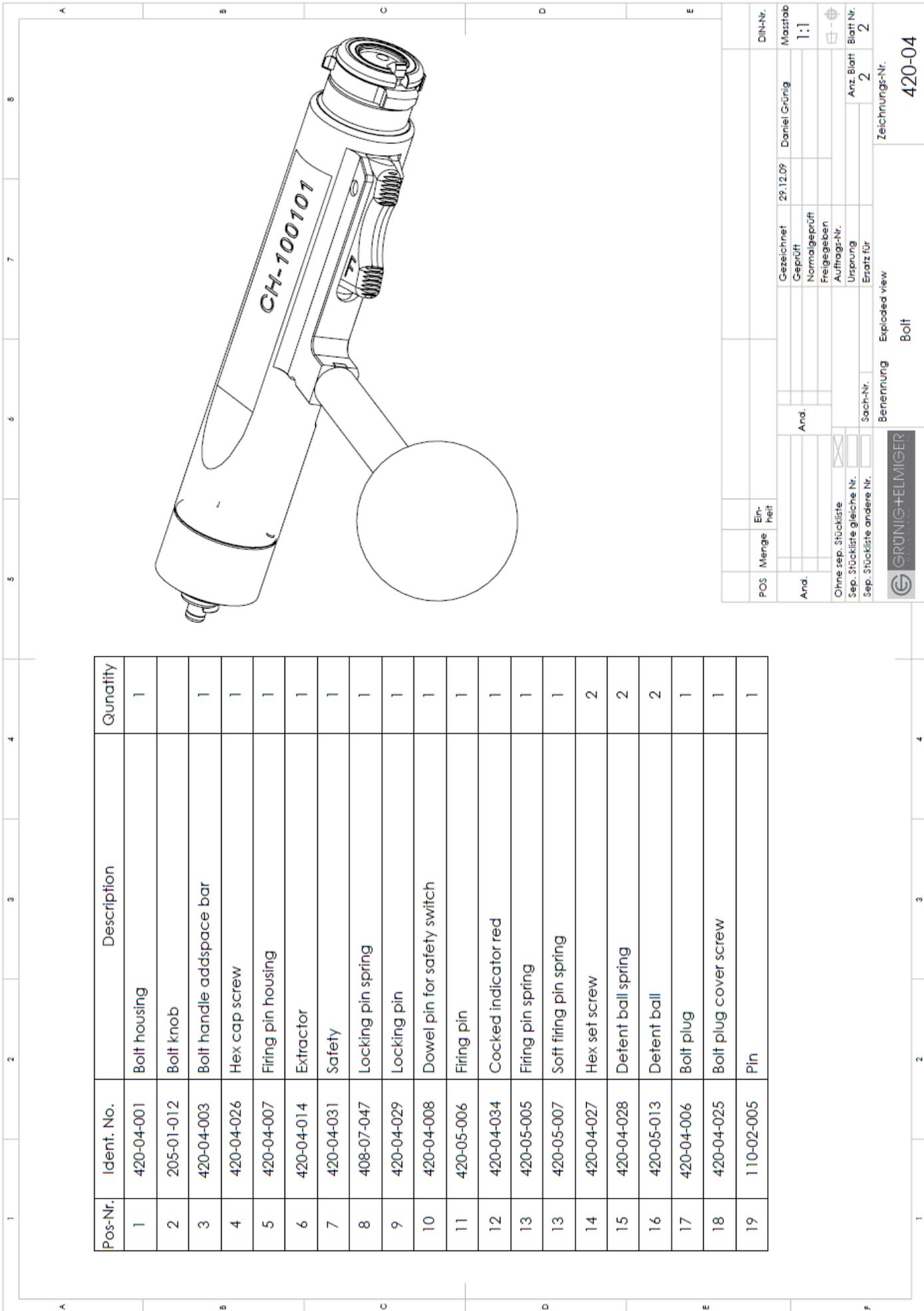


Using the special key turn the bolt plug screw clockwise until it is secured.



Cock firing pin





Pos-Nr.	Ident. No.	Description	Quantity
1	420-04-001	Bolt housing	1
2	205-01-012	Bolt knob	
3	420-04-003	Bolt handle addspace bar	1
4	420-04-026	Hex cap screw	1
5	420-04-007	Firing pin housing	1
6	420-04-014	Extractor	1
7	420-04-031	Safety	1
8	408-07-047	Locking pin spring	1
9	420-04-029	Locking pin	1
10	420-04-008	Dowel pin for safety switch	1
11	420-05-006	Firing pin	1
12	420-04-034	Cocked indicator red	1
13	420-05-005	Firing pin spring	1
13	420-05-007	Soft firing pin spring	1
14	420-04-027	Hex set screw	2
15	420-04-028	Detent ball spring	2
16	420-05-013	Detent ball	2
17	420-04-006	Bolt plug	1
18	420-04-025	Bolt plug cover screw	1
19	110-02-005	Pin	1

POS	Menge	Einheit	Gezeichnet	29.12.09	Daniel Grüning	DIN-Nr.	Maßstab
And.			Gepprüft				1:1
			Normalgeprüft				
			Freigegeben				
			Auftrags-Nr.			Anz. Blatt	Blatt Nr.
			Ursprung			2	2
			Ersatz für			Zeichnungs-Nr.	
			Sach-Nr.			420-04	
Benennung			Exploded view				
Bolt							
GRÜNIG+ELMIGER							

