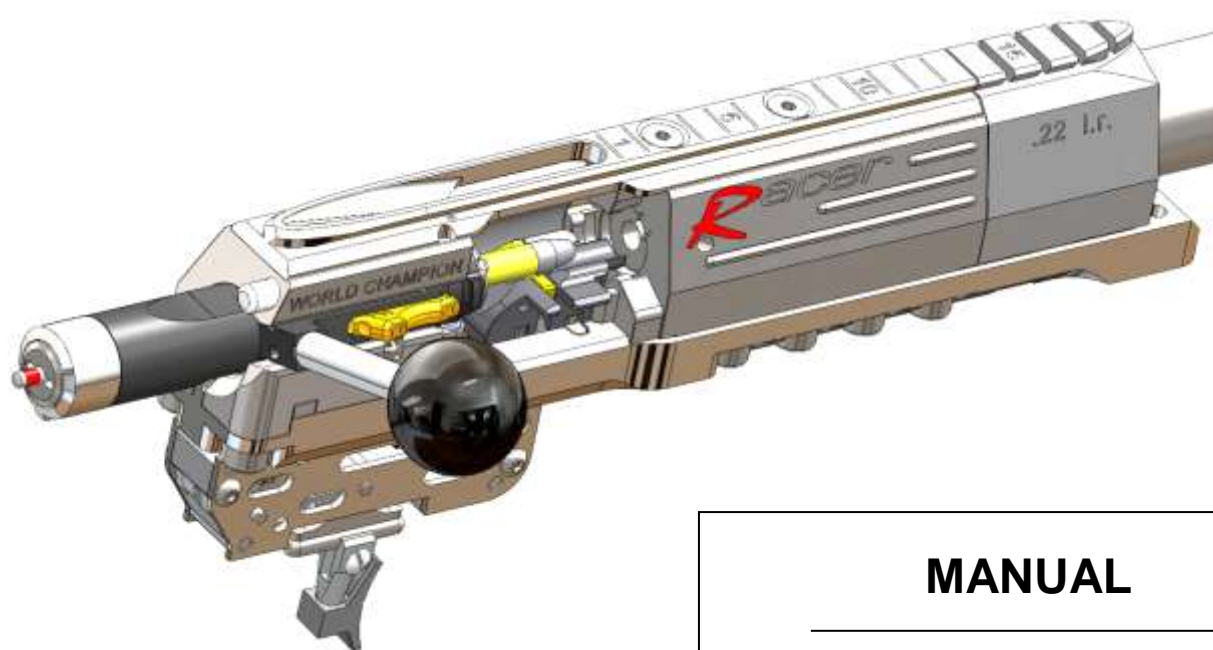


Racer

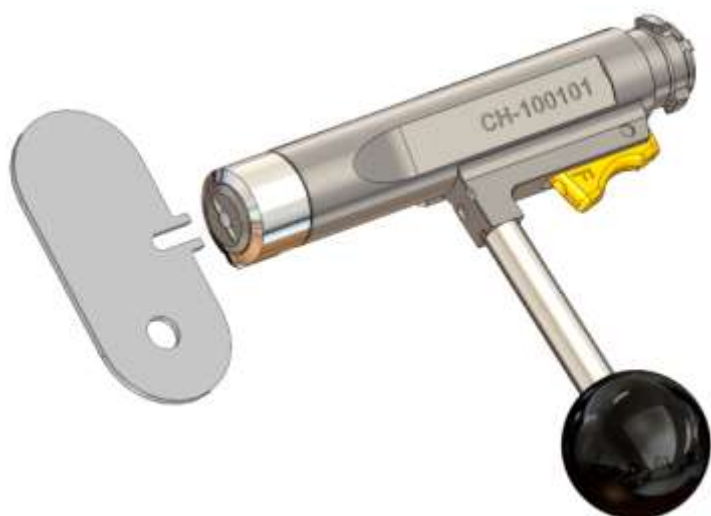
WORLD CHAMPION

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

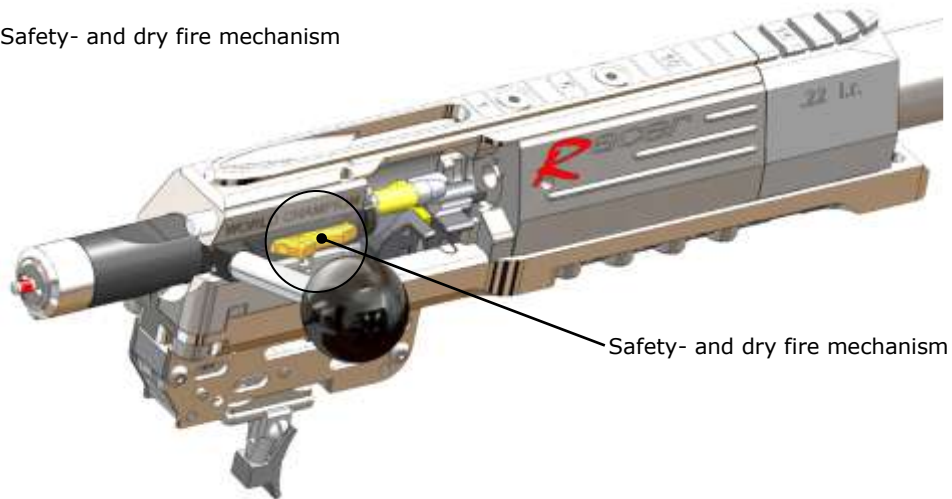
Congratulations on the acquisition of your new target rifle. Our rifles are used worldwide with great success. We are convinced that your decision was easy. Our products fulfill the highest engineering standards and are manufactured with the latest product technology.

Please carefully read the following before using your new rifle:

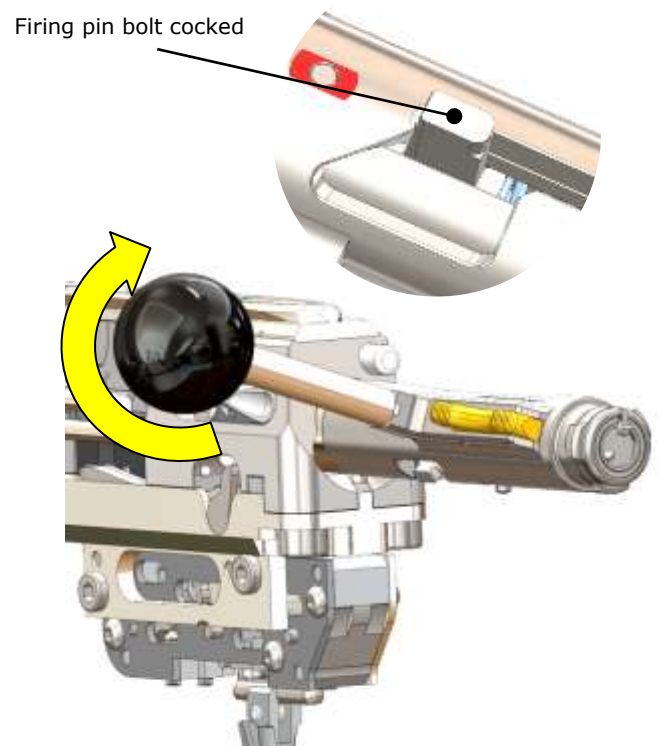
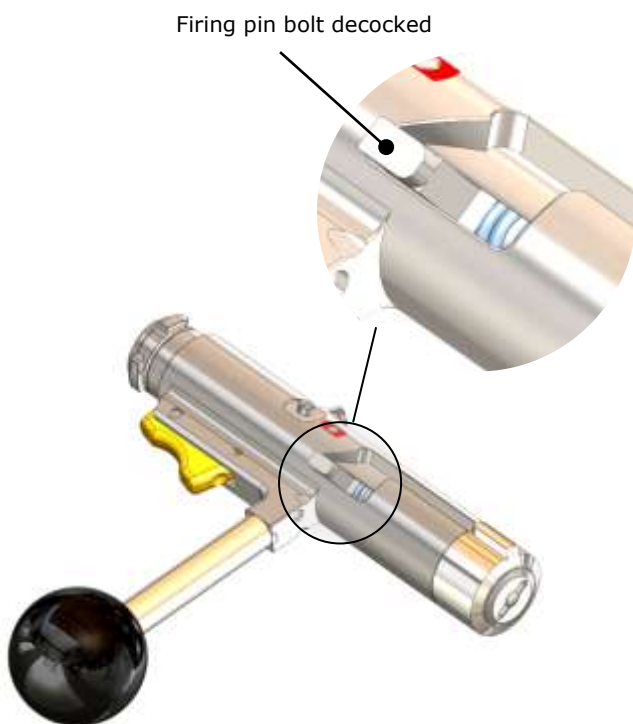
1. Always consider a rifle loaded until you personally checked that it is not. Make sure the action is open when you carry the rifle around so everybody can see that your rifle is unloaded.
2. Make sure the muzzle is always pointed downrange or in a safe direction!
3. Always make sure that you are using 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

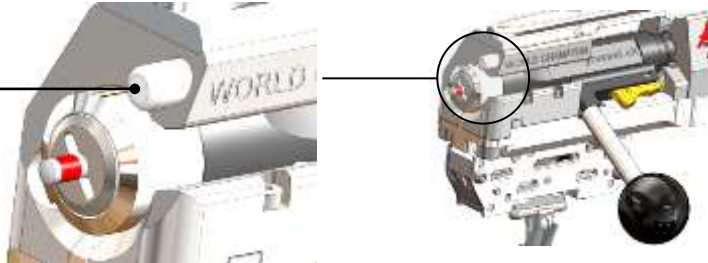


Firing pin decocked



Bolt release

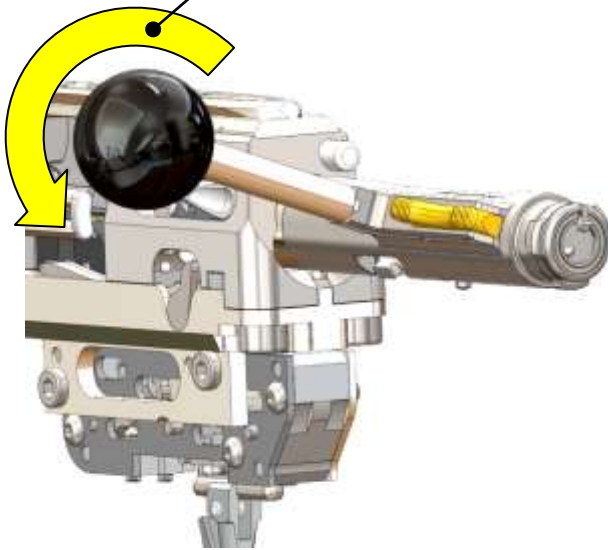
Push to release bolt



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

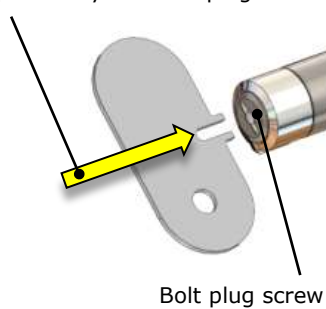


Firing pin bolt decocked

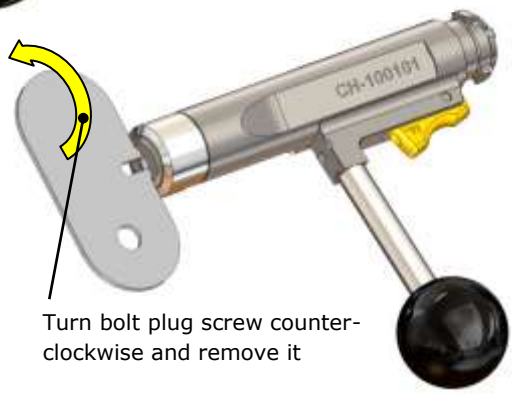


Press **safety switch to the firing position (F)**

Insert special key into bolt plug screw

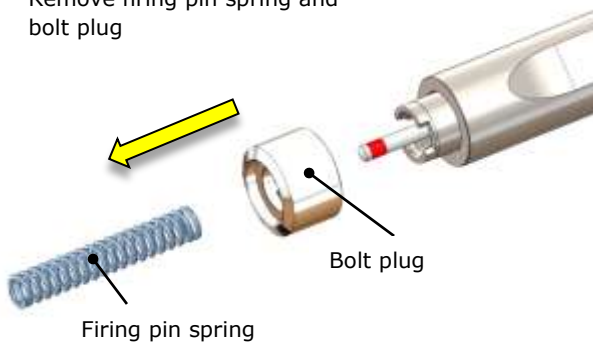


Bolt plug screw

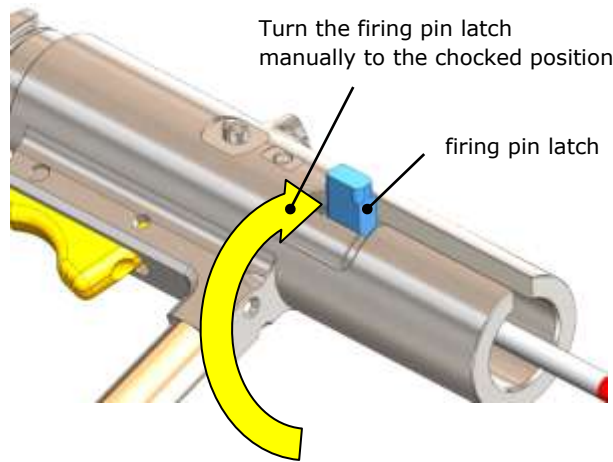


Turn bolt plug screw counter-clockwise and remove it

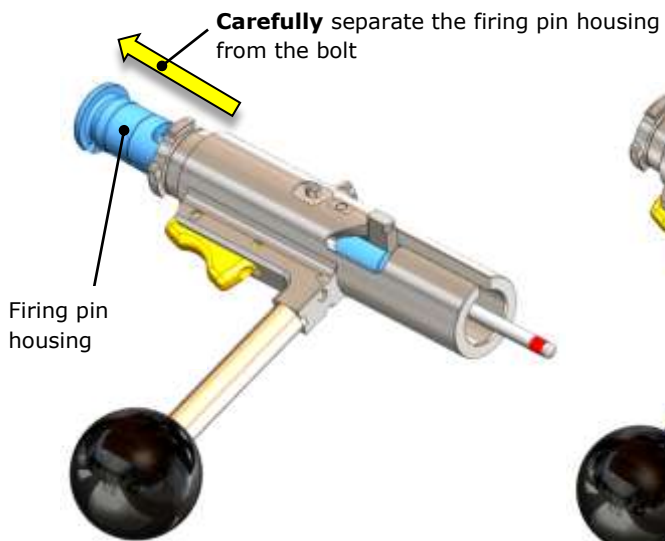
Remove firing pin spring and bolt plug



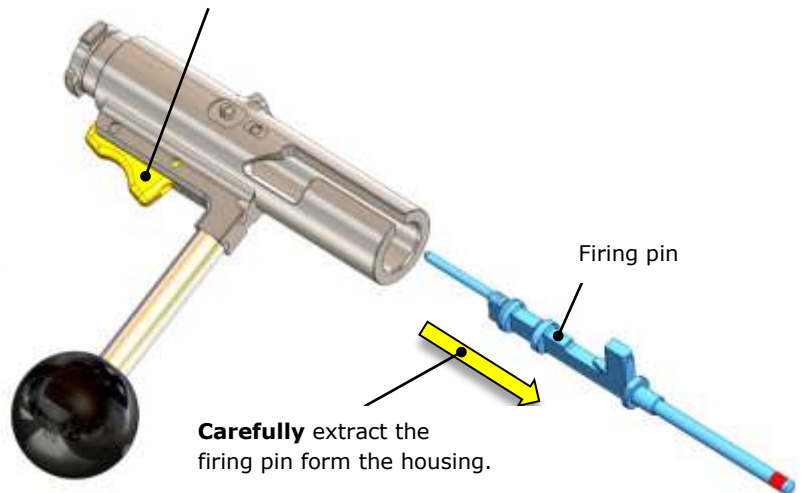
Turn the firing pin latch manually to the chocked position



Carefully separate the firing pin housing from the bolt

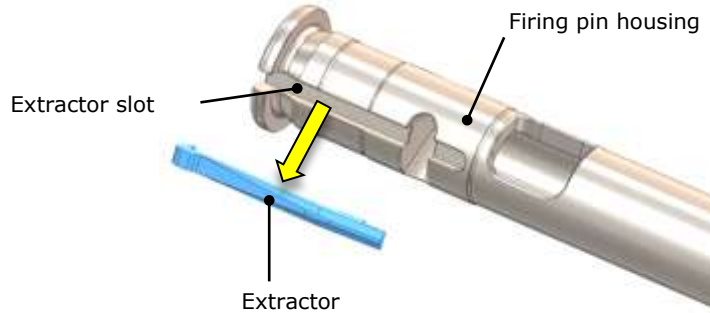


The safety switch **must be unlocked and switched to F**, otherwise the firing pin cannot be extracted



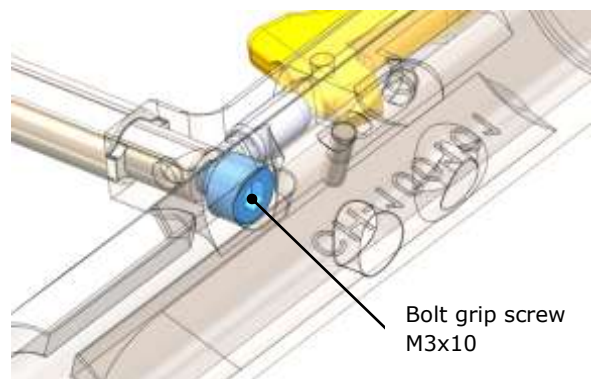
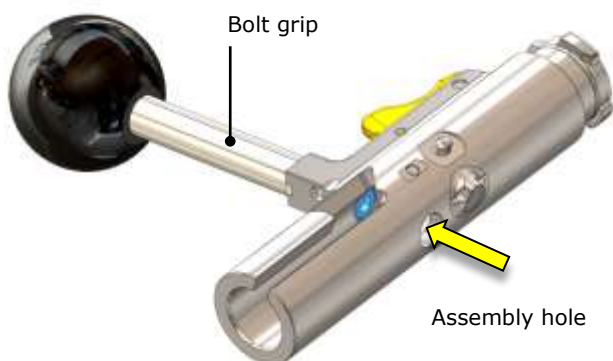
Carefully extract the firing pin form the housing.

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



Tighten the bolt grip

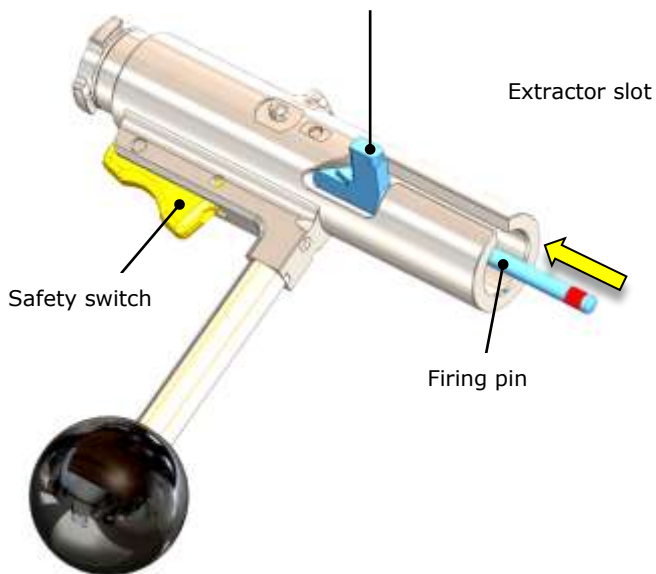
A loose bolt grip can be tightened through the assembly hole.



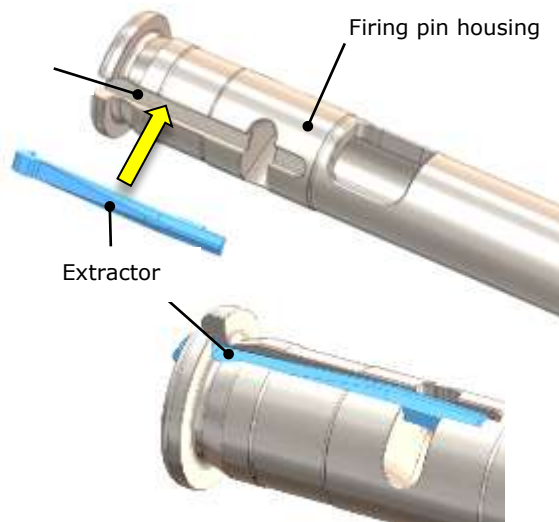
Bolt assembly

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)**.

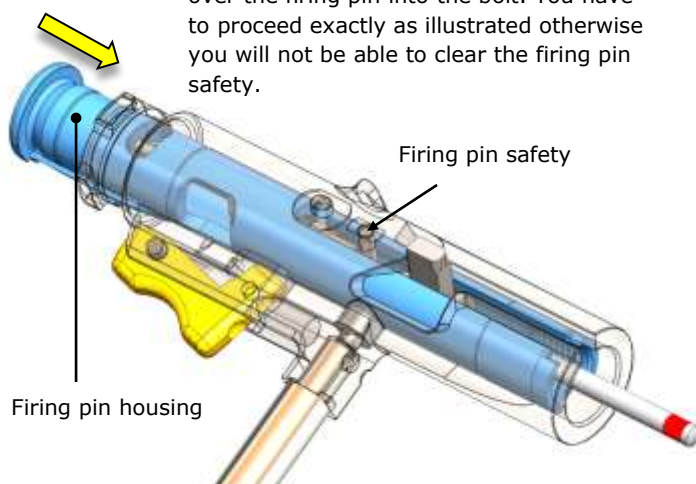
Switch safety to the **firing position (F)**, slide firing pin **carefully** into the cocked position



Put extractor into the extractor slot

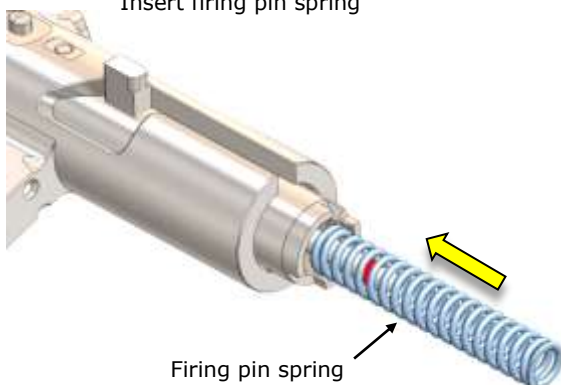


Insert the firing pin housing **carefully** over the firing pin into the bolt. You have to proceed exactly as illustrated otherwise you will not be able to clear the firing pin safety.

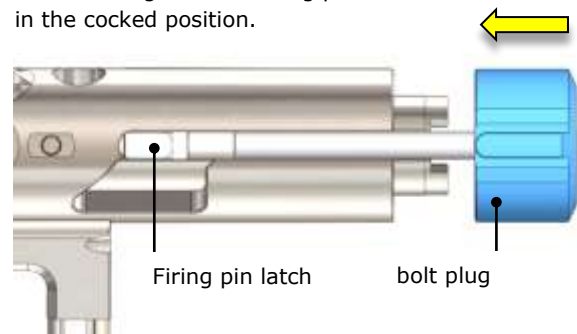


Check if the extractor is installed correctly

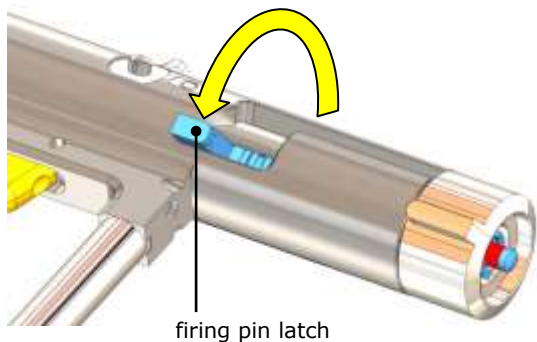
Insert firing pin spring



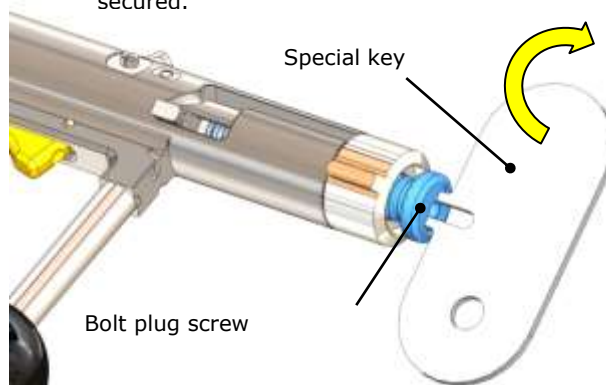
Slide the bolt plug over the firing pin while making sure the firing pin is still in the cocked position.



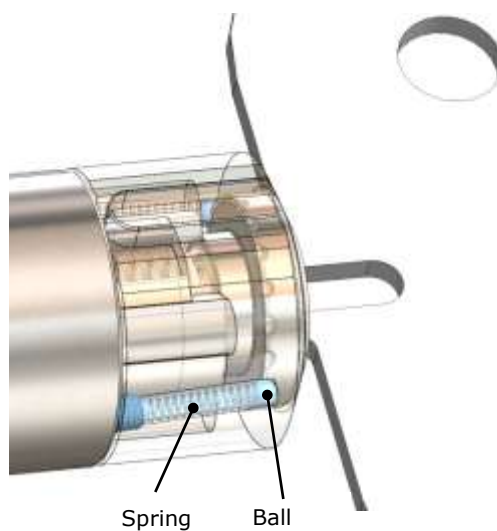
Slide the firing pin latch **carefully** into the decocked position.



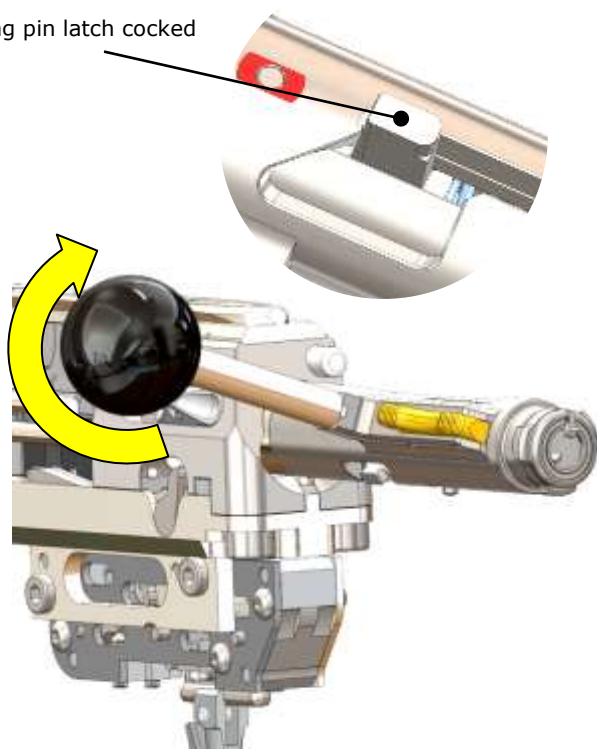
Insert the special key into the bolt plug screw and turn it clockwise until the screw is secured.



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



Firing pin latch cocked

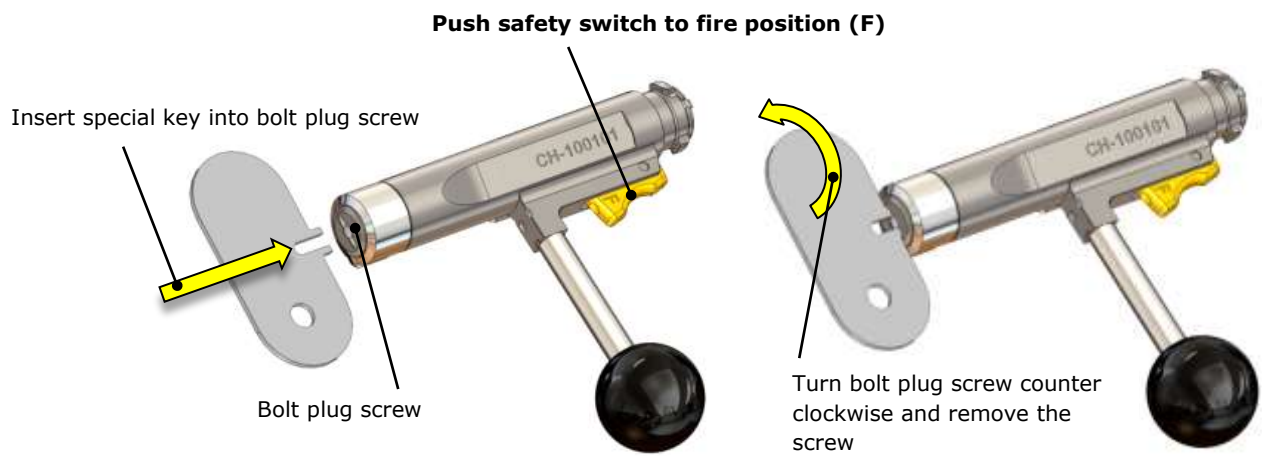
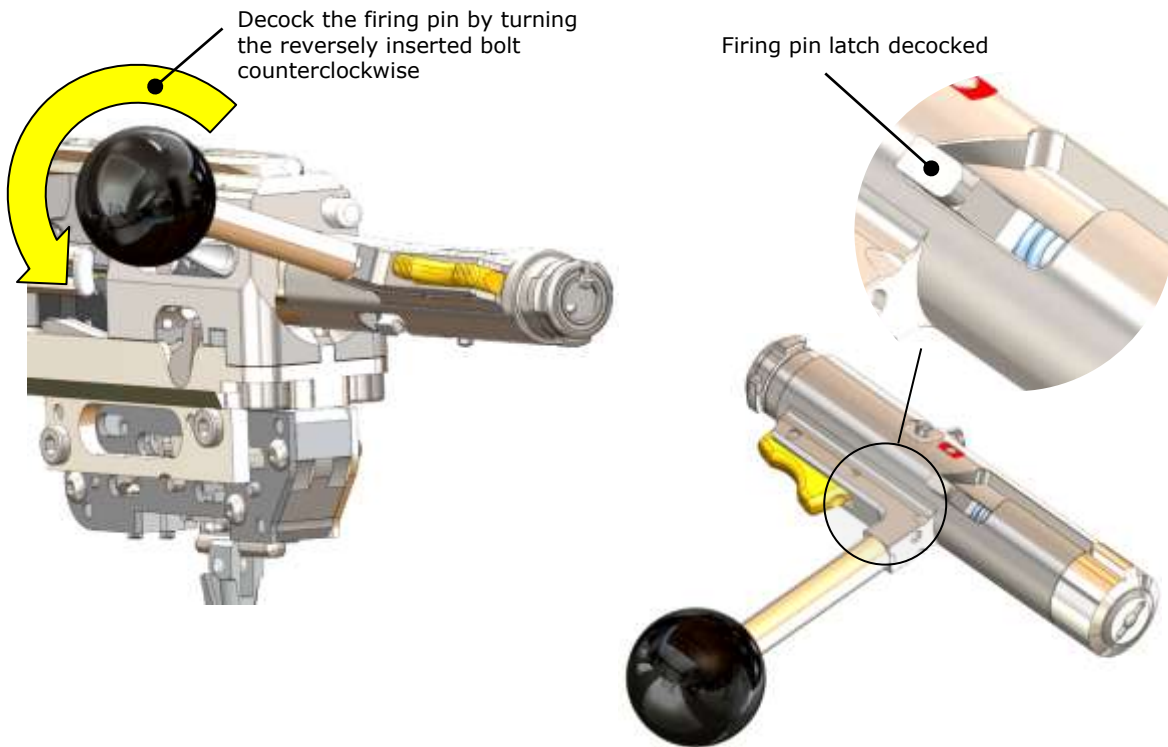


Cock the bolt as illustrated and switch the safety switch to the "safe!" position.

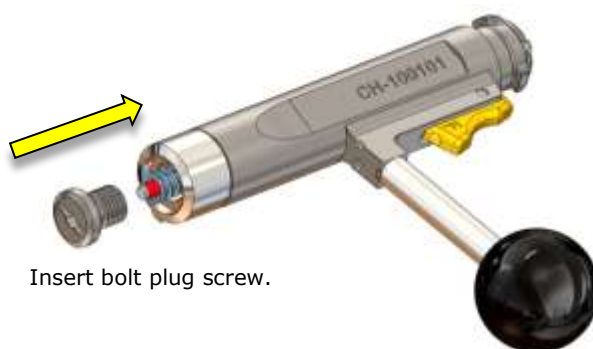
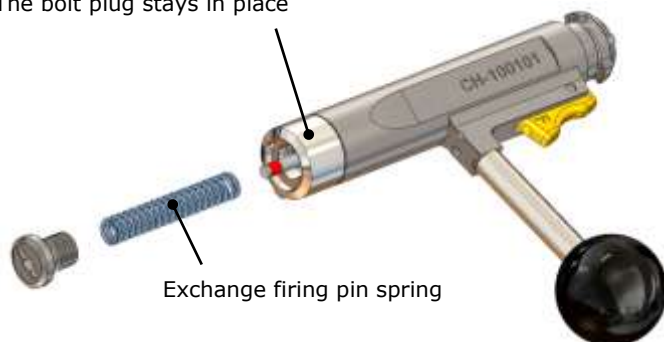


Changing the firing pin spring

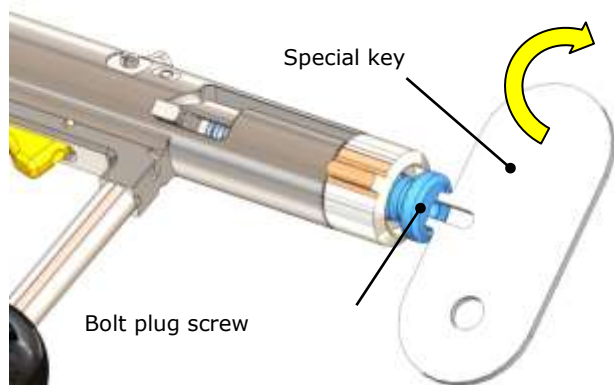
Change the firing pin using the following steps:



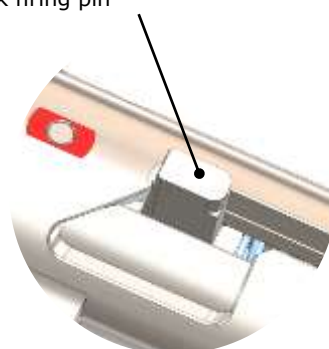
The bolt plug stays in place



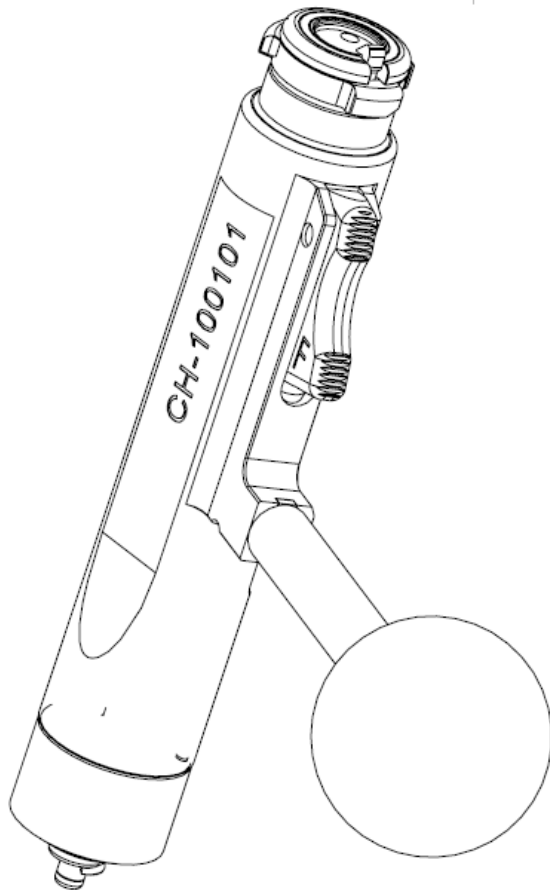
Using the special key turn the bolt plug screw clockwise until it is secured.



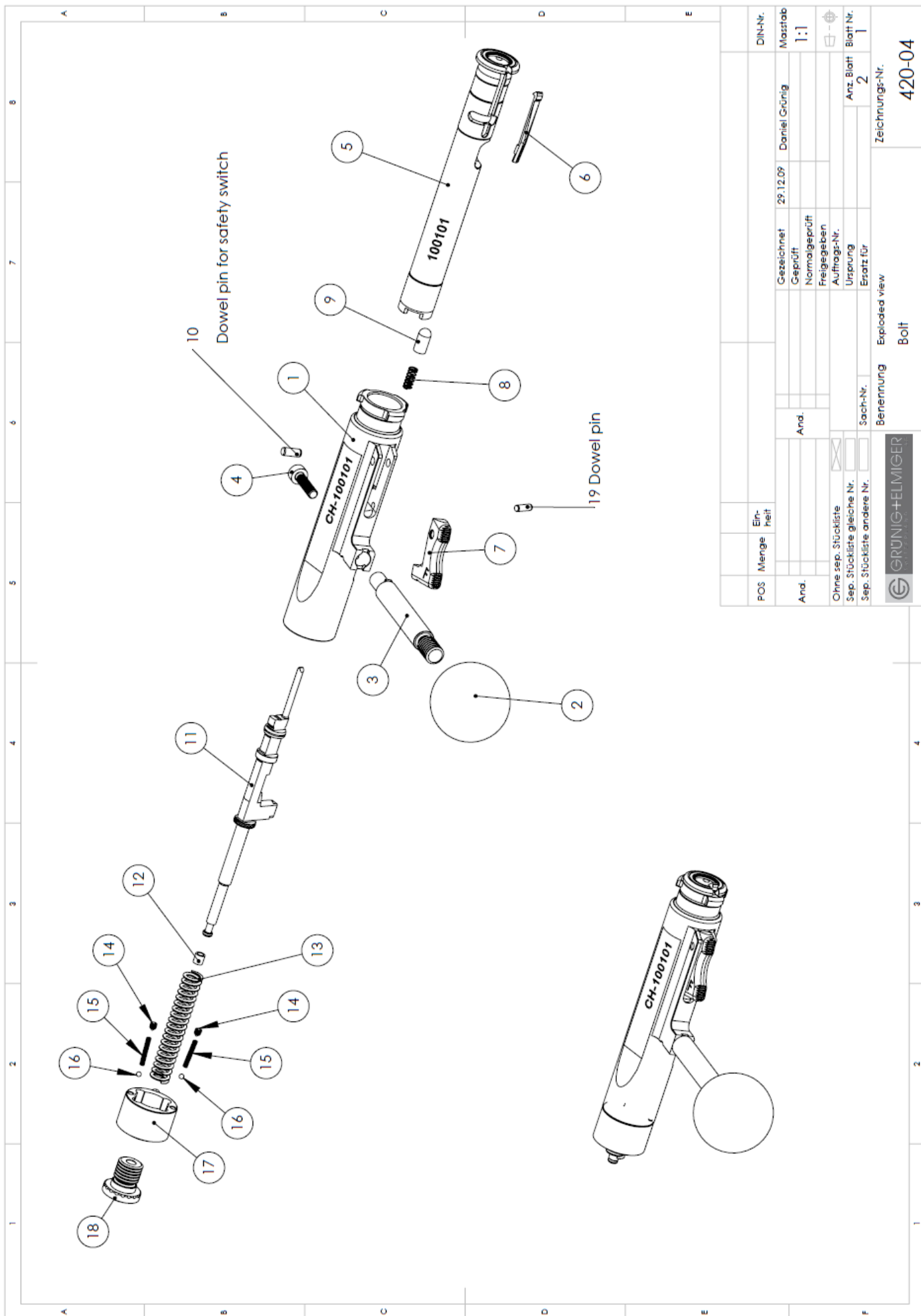
Cock firing pin



| 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. |
| And. | | | Geprüft | | | Maßstab |
| | | | Normalgeprüft | | | 1:1 |
| | | | Freigegeben | | | |
| Ohne sep. Stückliste | | | Auftrags-Nr. | | | Anz. Blatt |
| Sep. Stückliste gleiche Nr. | | | Ursprung | | | Blatt Nr. |
| Sep. Stückliste andere Nr. | | | Ersatz für | | | 2 |
| Benennung | | | Exploded view | | | Zeichnungs-Nr. |
| Bolt | | | | | | 420-04 |



| POS | Menge | Einheit | DIN-Nr. |
|-----------------------------|---------------|----------------|---------|
| And. | | And. | |
| Ohne sep. Stückliste | | | |
| Sep. Stückliste gleiche Nr. | | | |
| Sep. Stückliste andere Nr. | | | |
| Sach-Nr. | | | |
| Benennung | Exploded view | | |
| | Bolt | | |
| | | Zeichnungs-Nr. | 420-04 |