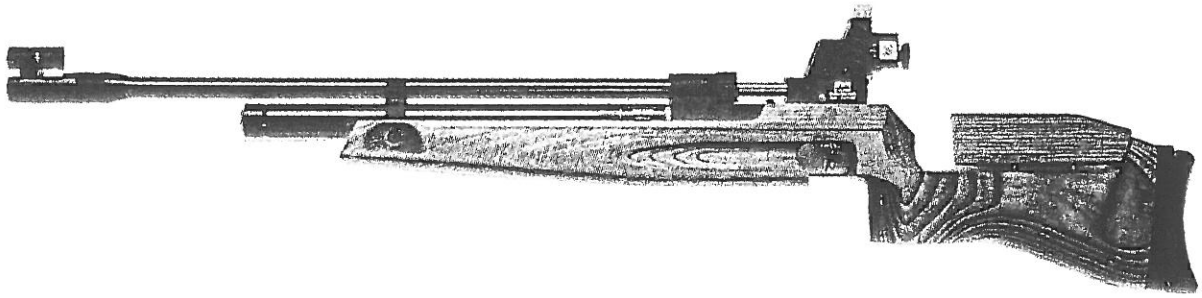
CA 100
COMPRESSED AIR SYSTEM



Bedienungsanleitung
Operating manual
Mode d'emploi
Instruktionsbok

Seriennummer
Serial number
Numéro de série
Serienr.

Dynamit Nobel Aktiengesellschaft • D-53839 Troisdorf / Germany

Introduction

With the RWS CA 100 Compressed Air System, you have opted for a new concept in an environmental-friendly air rifle. This air rifle has been produdced for Dynamit Nobel by a reputable English manufacturer.

As the maker of the world-famous RWS Air Rifle Pellets, Dynamit Nobel is equally skilled in the area of producing rifles for the sport of target airgun shooting. Dynamit Nobel is invariably represented at every major national and international sporting event.

Before firing your CA 100 for the first time, make sure you are familiar with the handling and special functions of the rifle. Please read the operating manual carefully.

Incorrect handling, changes to the rifle, self-inflicted damage, repairs carried out by third parties will exempt the manufacturer/Dynamit Nobel from all warranty claims. We recommend that from time to time you have your air rifle tested for safety through a recognised service centre.

Condition on delivery/packaging

The RWS CA 100 Compressed Air System leaves the production plant in a safe polystrene packaging including cardbox. Depending on the choice you have made, sights will either be included or not.

For reasons of safety the compressed air cylinder has not been filled by the manufacturer.

1 DIN-fitting for connecting the rifle cylinder/compressed air bottle
1 spanner for the interchangeable cylinder
1 socket wrench set
1 spare barrel seal (O-ring)
1 spare regulator seal (O-ring)
1 operating manual
1 warranty card
1 RWS championship box of R 10 air rifle pellets

Technical data

Calibre	4,5 mm (.177)
Barrel length	558 mm
Total length	112 cm
Weight (with sights)	5,18 kg
Filling pressure	200 bar, maximum
Propulsion energy	dry and oil-free compressed air
Firing capacity	maximum 250 shots

Garantie

Für das RWS-Luftgewehr CA 100 übernimmt die Dynamit Nobel AG folgende Garantie:

Die Dynamit Nobel AG garantiert Ihnen als Käufer für diejenigen Teile, die infolge von Material- oder Herstellungsfehlern schadhaft geworden sind, kostenlose Reparatur oder kostenlosen Ersatz während der Dauer von einem Jahr, gerechnet ab dem Datum der Garantieurkunde.

Die Garantie erstreckt sich nicht auf Beschädigungen oder Störungen, die infolge unsachgemäßer Behandlund oder Eingriffen, infolge schlechter Instandhaltung oder durch natürliche Abnutzung oder Verschleiß verursacht worden sind. Die Garantie gewährt keine Schadenersatzansprüche und faßt keine Nebenkosten, das heißt, die durch die Ein- oder Rücksendung des Gewehres oder schadhafter Teile entstehenden Fracht-, Porto-, Versichungs- und Zollkosten gehen zu Lasten des Käufers.

Die Anmeldung von Garantieansprüchen soll grundsätzlich über den Fachhandel beziehungsweise den Importeur erfolgen. Für die Ausführung von Garantiearbeiten sind nur die Dynamit Nobel AG und von dieser autorisierte Werkstätten zuständig.

Warranty

Dynamit Nobel issues the following warranty for the RWS CA 100.

Under the Warranty, Dynamit Nobel AG undertakes to repair or replace free of charge all parts which are faulty due to defective material or manufacture for the period of a year from the date of receipt of the warranty certificate.

The warranty does not cover damage or malfunction attributable improper treatment, poor maintenance or normal wear and tear. The warranty does not include claims for damages and does not extend to secondary costs, i.e. the costs of freight, postage, insurance and duty incurred in sending and returning the gun or damaged parts shall be charged to the purchaser.

Warranty claims should always be lodged with your dealer or importer. Warranty work may only be carried out by Dynamit Nobel AG and workshops authorized by Dynamit Nobel AG.

Garantie

La Société Dynamit Nobel AG accorde la garantie suivante sur son arme à aire CA 100.

Pour toutes les pièces devenues défectueuses à la suite de défauts de matériaux au de fabrication, Dynamit Nobel AG s'engage, envers l'acheteur, à réparer ou à remplacer gratuitement les dites pièces pour une pèriode d'un an à compter de la date du certificat de garantie.

La garantie ne couvre pas les dommages ou les anomalies résultant d'une manipulation ou d'interventions inadéquates, d'une rèparation mal effectuèe ou de l'usure naturelle de l'arme. La garantie ne reconnaît aucun droit à réparation de préjudices et ne couvre pas les coûts accessoires, c'est-à-dire que les frais de transport, d'affranchissement, d'assurance et de dèdouanement pour l'envoi et le renvoi de l'arme ou des pièces défectueuses sont à la charge de l'acheteur.

Les prétentions de garantie doivent exclusivement être transmises par le commerce spècialisè ou par l'importeur. Seuls la Dynamit Nobel AG et les ateliers autorisés par celle-ci sont compétens pour l'exécution des travaux relevant de la garantie.

Garanti

Dynamit Nobel lämnar följande garanti på RWS CA 100.

Dynamit Nobel ersätter trasiga delar och fel beroende på tillverkaren. Denna garanti gäller ender en tid av ett (1) år från försäljningen.

Garantin täcker inte skador eller funktionsproblem som beror på felaktigt handhavande eller dålig vård av vapnet. Normala förslitningsskador ersätts inte. Garantin täcker inte extrakostnader såsom frakt, postavgifter, försäkringar och tull. Kostnader för tur- och retursändning av vapnet eller skadade delar ombesörjs av köparen.

Garantianspråk skall alltid lämnas till den Ni köpt vapnet av eller till Dynamit Nobel-RWS, Skandinavien. Garantiarbeten får endast utföras av Dynamit Nobel eller av denne anvisad vapenreparatör.

RWS CA 100

Serien-No.:/Serial-No.:
Nr.Serie:/Serienr.:

Verkaufsdatum:/Date of purchase:
Date de vente:/Försäljningsdatum:

Händleradresse/Dealer's adress
Adresse du revendeur/Handlare-adress

Care and maintenance

The working parts of your RWS CA 100 need relatively little in the way of lubricating and cleaning. Given normal use of the air rifle, the manufacturer's lubrivation is sufficient for up to 10,000 shots max. Improper care will result in this capacity being considerably reduced.

It is recommended that once a year, (or after every 10,000 shots,) the rifle is taken to an expert for an inspection and overhaul. Such a service, wich can only be carried out by a recognised specialist, will ensure that all the care and maintenance measures necessary are properly undertaken.

Each time it has been used, the rifle should be wiped thoroughly with a cloth, and metal and wooden surfaces protected against corrosion by means of an appropriate oil.

We advise that the inside of the barrel should be cleaned at longer intervals by slushing it out with several dry-cleaning drops (e.G.VFG)

General safety precautions in the use of guns

Always remember that you keep a firearm. Observing the following rules can prevent accidents from occuring:

1. Always make sure when you pick up a guns that it is unloaded.
2. Only let go off your gun if it is unloaded.
3. Leave the breech block open, unless you are about to fire.
4. Never point your gun - even unloaded - at a person or in a direction where it might be dangerous or lead to injury.
5. Only fire your gun on officially recognised shooting ranges or at targets sited against an appropriately safe background.
6. Do not touch the trigger until you are on the point of firing.
7. Always keep gun and ammunition locked away separately.
8. Only hand your gun to persons of a suitably mature age who are familiar with the correct methods of handling it and with the safety rules involved in firing it.
9. Always treat your gun as if it were loaded. Make sure yourself that the gun is unloaded.

Trigger

The trigger of the RWS CA 100 Compressed Air System can be individually adjusted to meet the requirements of the shooter. The adjustment options are as follows:

Trigger weight

The trigger weight is adjusted by turning screw (1) clockwise to increase the weight, and anticlockwise to decrease the weight.

1st stage travel

1st stage travel is adjusted by means of screw (2). Turning the screw clockwise will decrease travel, anticlockwise will increase it.

Let-off point (catch overlap)

The let-off point is adjusted with screw (3). Turning the screw clockwise will make the let-off point "dryer", i.e. only a slight catch overlap is set. Turning the screw too far anticlockwise will cause the rifle to fire before the end of 1st stage travel. Clockwise turning will increase the catch overlap, i.e. the trigger "travels" or is dragged.

Follow-on travel adjustment

Follow-on travel is adjusted with screw (7). Turning the screw anticlockwise will reduce the travel, while clockwise turning will extend the follow-on of the trigger once the let-off point has been passed.

The position of the trigger shoe can be set on 3 levels:

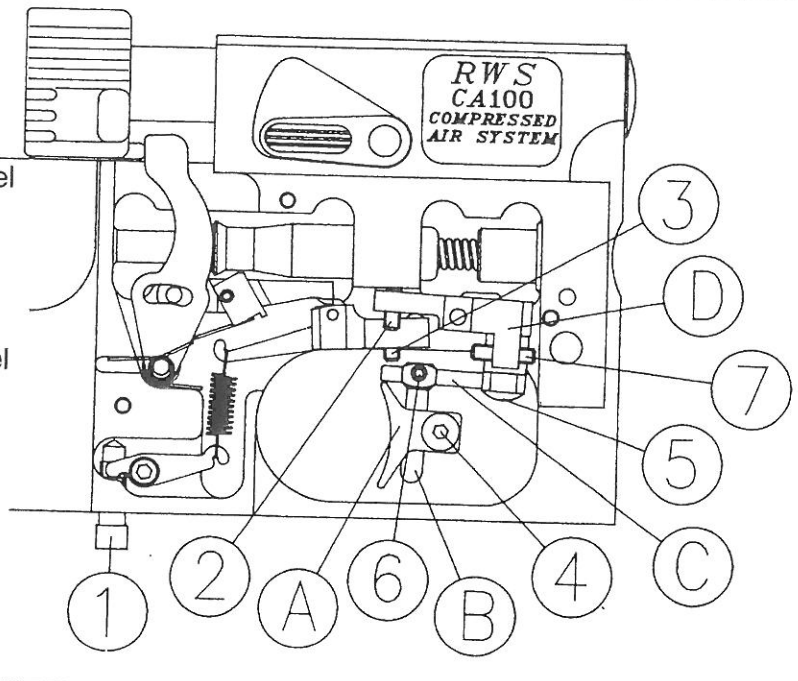
a The height adjustment is effected by loosening screw (4) and sliding the shoe either up or down on the trigger blade.

b The length adjustment is effected by loosening screw (6) and moving the trigger blade (B) along the trigger bar (C).

c The angle adjustment is effected by loosening screw (5) and swinging the trigger bar (C) on the pivot block (D).

1. Adjuster screw for trigger weight
2. Adjuster screw for 1st stage travel
3. Adjuster screw for let-off point
4. Retaining screw for trigger shoe
5. Retaining screw for trigger bar
6. Retaining screw for trigger pillar
7. Adjuster screw for follow-on travel

A. Trigger shoe
B. Trigger pillat
C. Trigger bar
D. Trigger pivot block



Compressed air logistics

The compressed air reservoir (B) is filled by the shooter at the relevant specialist retailer. The technical provisions and regulations in force in each state for filling the rifle with compressed air and transporting the compressed air receptacles must be complied with.

Compressed air can be obtained at the various branches of commercial suppliers or at specialised diving and sports equipment centres.

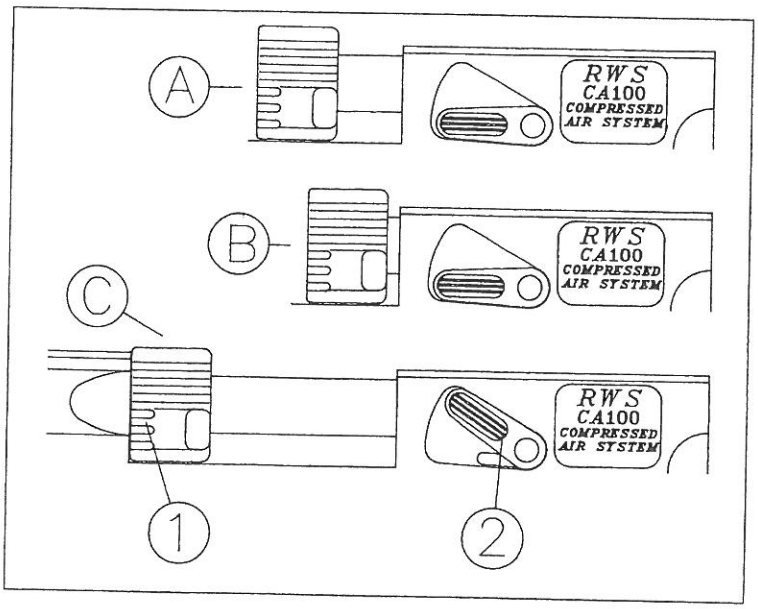
The compressed air reservoir or 3-litre refill bottle obtainable as an accessory can be topped up from large industrial cylinders (approx. 50 litres) or directly from an appropriate compressor. The DIN fitting with drain valve is required for this purpose, which is likewise obtainable as an accessory.

Cocking/loading

A The breech block (1) is retracted by pressing down the release lever (2) on both sides.

B The breech block (1) is pushed back fully with the index finger intil it locks in. The breech system is now taut and the air pellet may be loaded into the breach.

C The breech block (1) is now pushed forward, hermetically sealing the barrel at the back. Once the rifle has been fired, the release lever (2) is actuated and the breech block (1) returns to position A.



Discharging

Once the leading process is complete, the pellet may no longer be removed from the rear of the barrel. To interrupt the firing procedure, retract the breech block (1) by pressing the two release levers (2) simultanneously. Once released from the firing position, the breech block (1) can be pushed forward again and firing continue.

The air rifle can be discharged by firing the pellet inserted in the barrel. The necessary safety regulations must be strictly observed at all times.

Filling with compressed air

General advice regarding compressed air

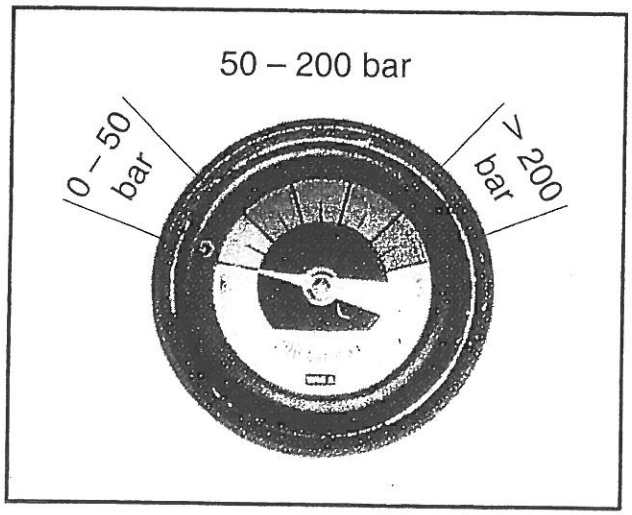
In handling compressed air, it is necessary that only "dry" compressed air is used. When filling with a compressor, the system should have a water separator. It is recommended that the compressed air reservoir is never emptied completely in order to prevent condensed water from forming there. (Danger of rust!)

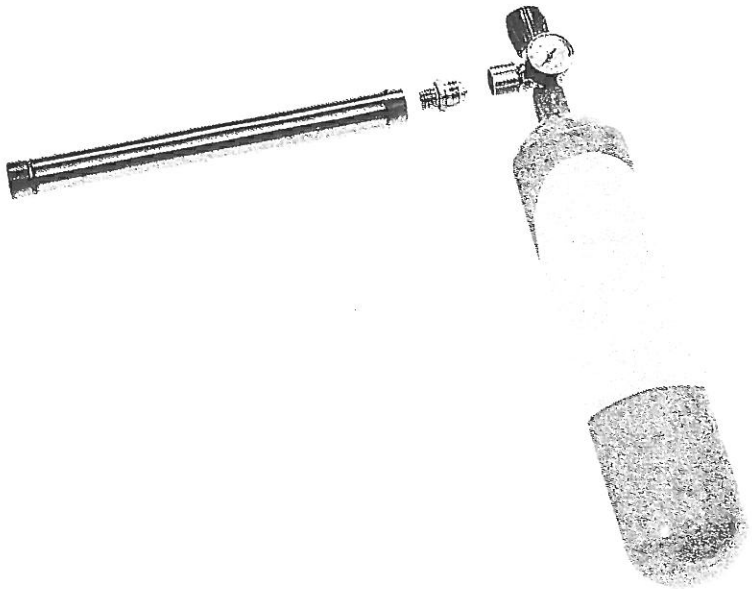
As a propulsion agent, only compressed air - not CO_2 - must be used. Filling the reservoir (B) with CO_2 will lead to malfunctioning and material damage. Use of CO_2 will invalidate the warranty.

Filling the rifle cylinder

Integrated into the front of the cylinder (B) is a pressure gauge (manometer). The filling pressure level can be read at any time, even during competition. One graduation mark on the scale is equivalent to 25 bar.

0 bis 50 bar : yellow (given a shortfall in operating pressure, cylinder must be refilled)
50 bis 200 bar : green (min./max. filling pressure)
über 200 bar : red (overpressure, the pressure indicator must not reach this area)





The compressed air reservoir (B) shoudl be filled at approx. 160 bar, sufficient for 200 shots; 200 bar is maximum.

Note:

Should the level fall short of the minimal filling pressure, the rifle is not ready for firing, and a consistent point of impact can no longer be guaranteed.

It is likewise essential that the maximum filling pressure of 20 bar is not exceeded. However, given proper use of the permitted filling sources and an admission pressure of 200 bar max., exceeding the maximum pressure is a technical impossibility.

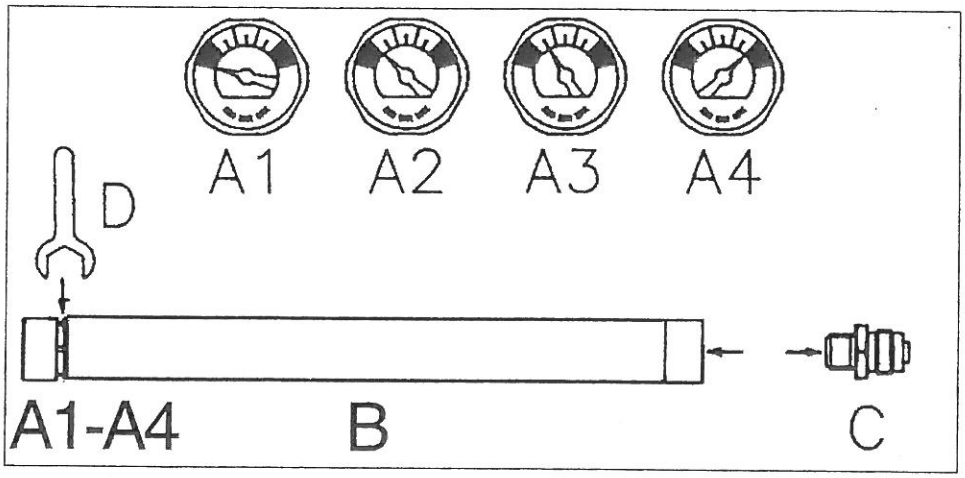
Emptying the rifle cylinder

In the threaded aperture of the cylinder there is a valve rod. This can be pushed inwards to release the compressed air.

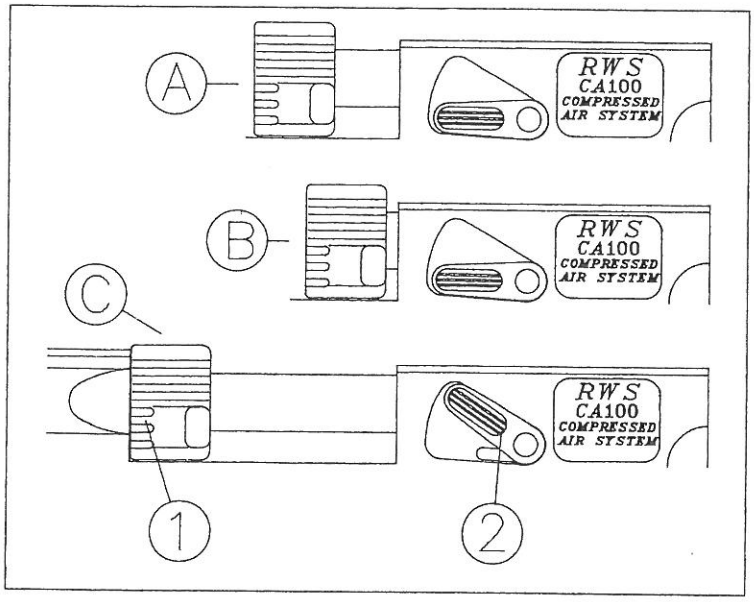
Assembly/disassembly of the compressed air reservoir

The CA 100 is equipped with a detachable compressed air reservoir (B). By using of the spannes provided (D), this can be loosened from the air rifle between the pressure gauges (A1-A4) and the pressurised cylinder. It is then unscrewed manually and removed from the rifle torwards from the front. Not requiring the use of a tool, the DIN fitting (C) is next screwed on to the reservoir. (B). Finally the entire system is connected up to either a compressor, a refill bottle or a large supply bottle. Attached to the refill bottle supplied by Dynamit Nobel is a pressure gauge that allows the contents to be read.

The reservoir (B) should be filled until the indicator registers a maximum. It is essential that attention is paid to the pressure gauges (A1-A4) during the filling process so that this may be carried out effectively. The reservoir (B) may only be shut off again once the drain valve has been closed.



By operating the air rifle release lever (2), the breech block (1) will spring back, thus allowing it to be pulled back and lockea into position. The reservoir (B) is then reinserted into the rifle, under the barrel from the front, where it is screwed in manually and lightly tightened up with the original spanner (D).
The original spanner (D) is deliberately made from soft material to avoid the reservoir (B) being screwed on too tightly.



Important

Should the breech block (1) not be pulled back fully prior to refitting the reservoir (i.e. so the rifle is cocked), then compressed air will be heard to escape. The breech block (1) may be opened still further to prevent more air from escaping, but a loss of compression is to be expected.

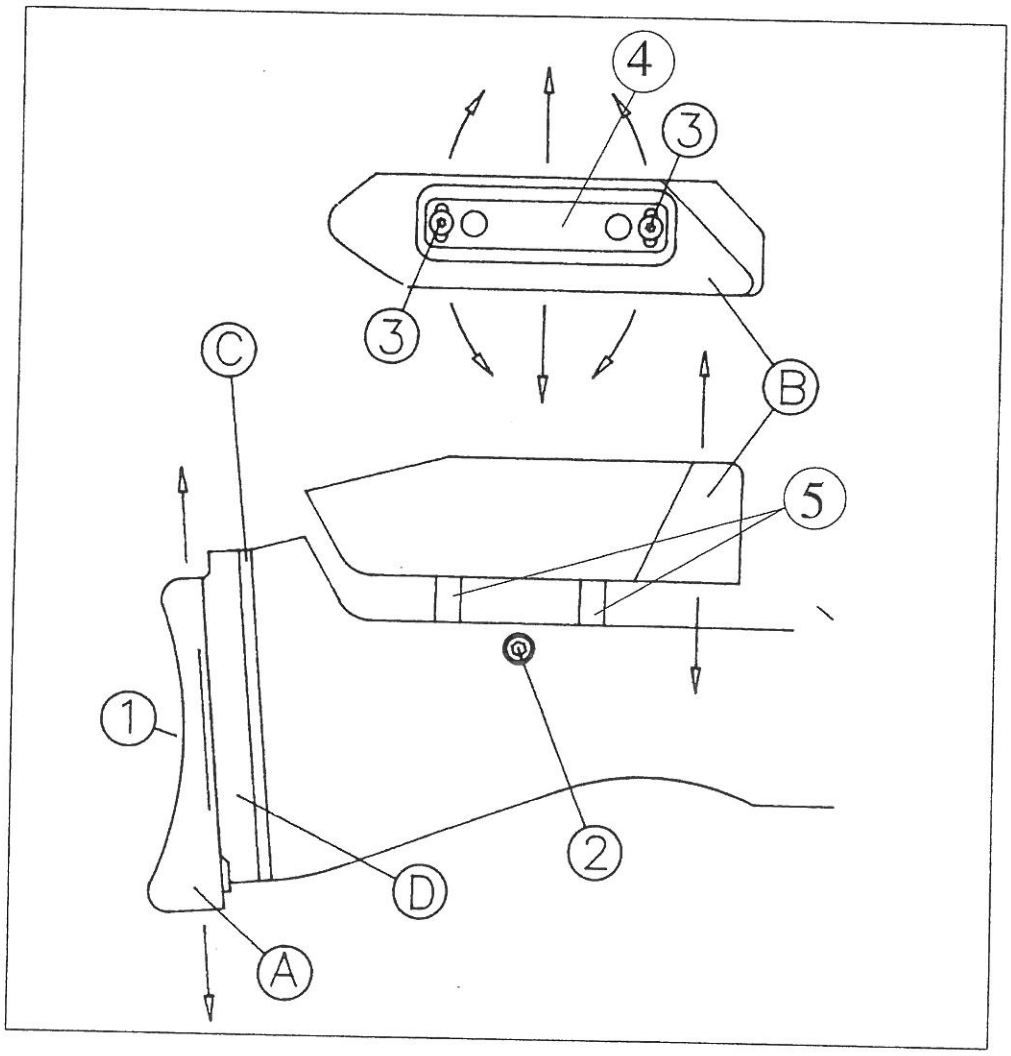
Adjusting the cheek piece

Height adjustment

The lateral locking screw (2) is loosened and the cheek piece (B) raised to the desired position. Tighten the lateral screw (2) to secure cheek piece (B) in the desired position.

Lateral adjustment

The lateral locking screw (2) is loosened and the cheek piece (B) raised to the desired position. Through tightening the lateral locking screw (2) is loosened and the cheek piece (B) are loosened and the metal section (4) moved to the side as appropriate. Finally the screws (3) are tightened up again, the cheek piece (B) is slid back down in the stock via the guide bolts (5) and fixed in the desired position again by tightening the lateral screw (2).



Adjusting the shoulder pad

The rear locking crew (1) is loosened, the height of the shoulder pad (A) individually adjusted, and the screw (1) tightened up again.

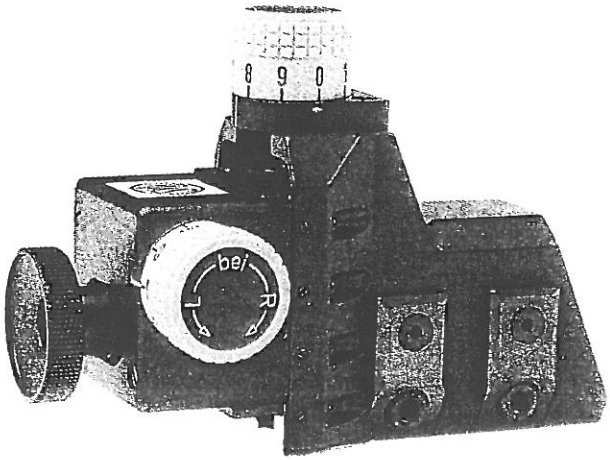
Dioptre assemby and adjustment

The dioptre sights are attached by inserting the dovetail guide into the grooved rib of the air rifle. Once the desired optical distance has been set, the fastening screws should be carefully tightenea

The point of impact of your RWS CA 100 can be regulated by adjusting the diopter. In doing so, you should observe the corresponding markings on the adjuster screws:

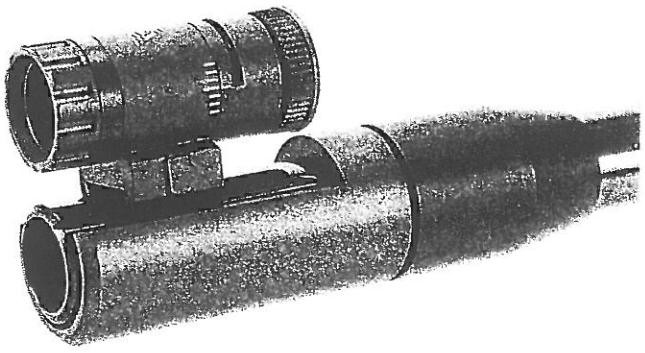
for high shots: turn upper adjuster screw towards H (right)
for low shots: turn upper adjuster screw towards T (left)
for shots right: turn side adjuster screw towards R (right)
for shots left: turn side adjuster screw towads L (left)

One click/catch corresponds, at a distance of 10 m, to an approx. 0,5 mm adjustment to the point of impact. Each adjustering screw is numerically marked =-10 so that the previous setting can be located easily.



Tunnel front sight

The positioning of the adjusting bar takes place via the tunnel of the front sight. This is provided with line markings. By means of the screw located on the front, the adjusting bar is held firm at the desired angle. The rear thumbwheel is unscrewed so far by hand that the mounted front sight can be detached from the groove. The new front sight blade once inserted is then slid into the lateral recesses. The side pieces are of various widths and the front sight blade is to be inserted accordingly. Finally the thumbwheel is tightened up by hand again.

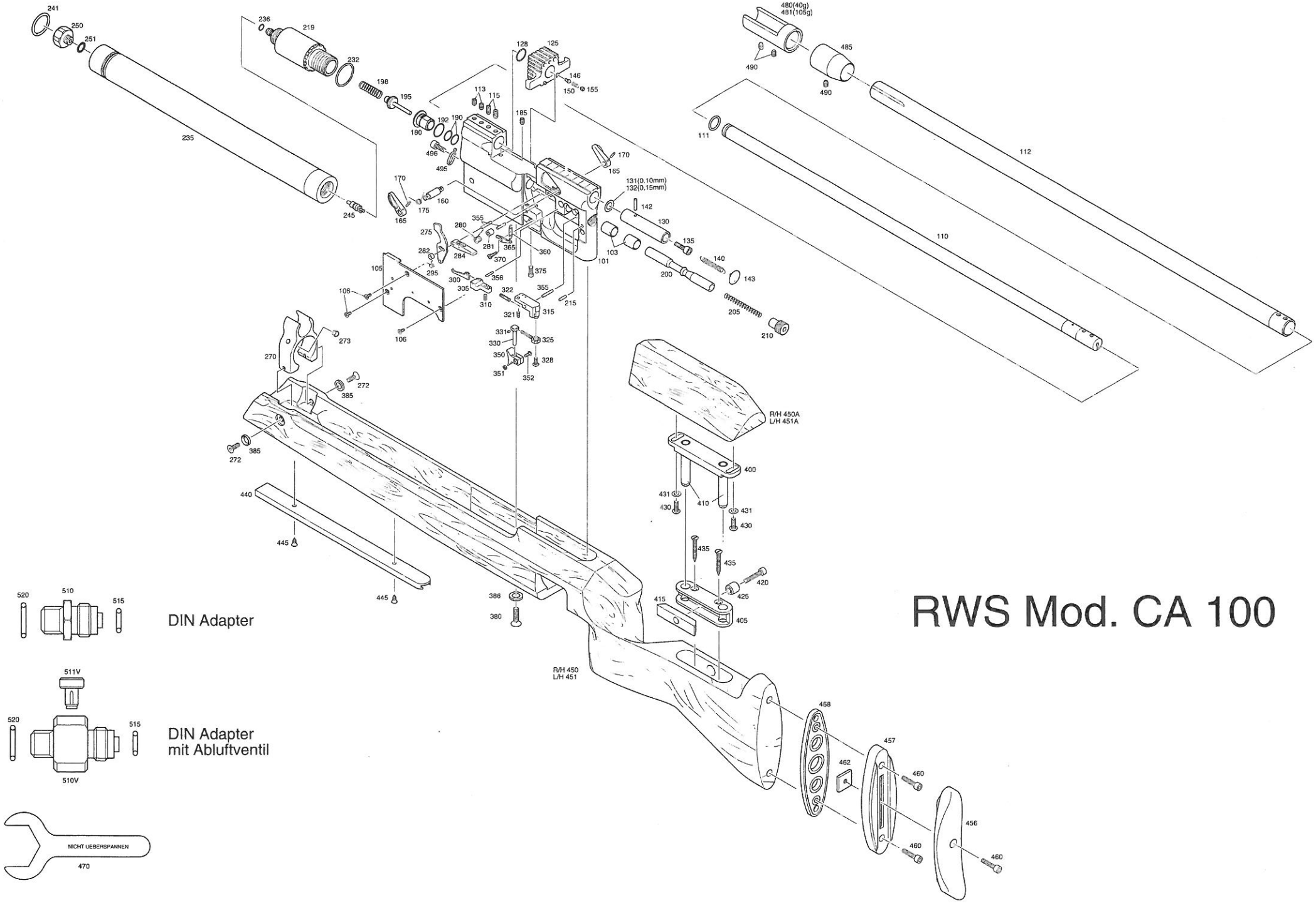


Barrel weight

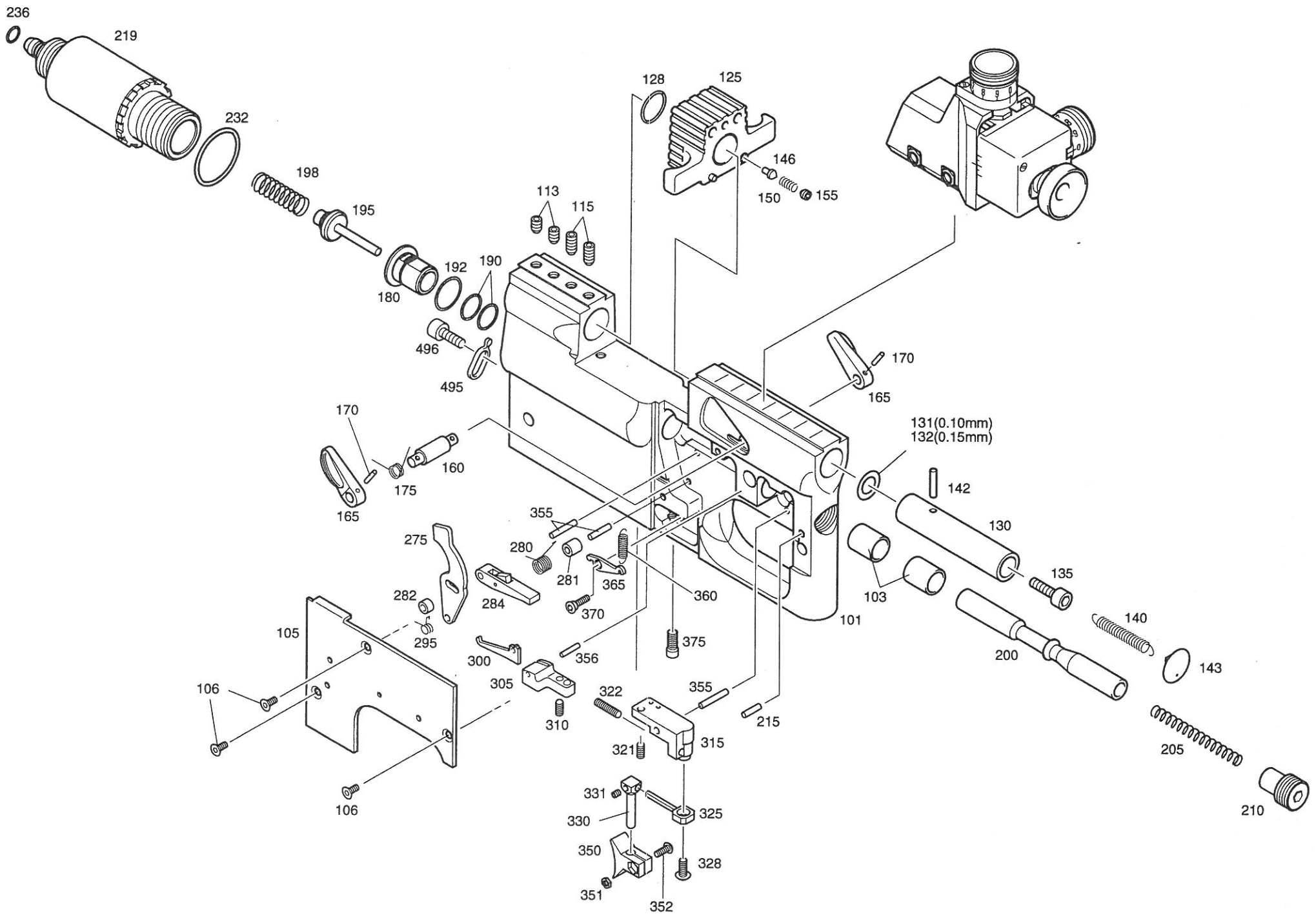
Once the socket-head cap screw has been loosened, the barrel weight can be slid backwards and forwards. The weight can then be individually positioned by each shooter. By means of the socket-head cap screw, the weight can then be secured from slipping out of place.

Teile/Part-Nr	Bezeichnung	Description
101	Gehäuse	Main Body
103	Führungsbuchse	Striker Bush
105	Abdeckplatte	Cover Plate
106	Schraube für Abdeckplatte	Cover Plate Screw
110	Lauf	Barrel
111	Lauf-O-Ring 12x2mm	Barrel O Ring
112	Laufmantel	Barrel Tube
113	Mantel-Halterschraube	Tube Retaining Screw
115	Lauf-Halteschraube	Barrel Retaining Screw
125	Verschlußblock,kpl.	Breech Block Assembly
128	Verschlußblock-O-Ring	Breech Block O Ring
130	Verschlußblock-Führung	Breech Block Shaft
131	Distanzscheibe 0,10mm	Breech Block Spacer 0,10mm
132	Distanzscheibe 0,15mm	Breech Block Spacer 0,15mm
135	Verschlußblock-Schraube	Breech Block Screw
140	Verschluß-Rückholfeder	Breech Return Spring
142	Rückholfeder-Stift	Return Spring Pin
143	Federhalter	Spring Retainer
146	Verschlußblock-Druckbolzen	Breech Block Plunger
150	Feder zu 146	Plunger Spring
155	Schraube zu 146	Pllunger Screw
160	Öffnungshebel-Führung	Breech Release Shaft
165	Verschluß-Öffnungshebel	Breech Release Lever
170	Öffnungshebel-Stift	Release Lever Pin
175	Öffnungshebel-Feder	Release Lever Spring
180	Ventilsitz	Valve Seat
185	Ventil-Schraube	Valve Seat Screw
190	Ventil-O-Ring 10x1mm	Valve Seat O Ring 10x1mm
192	Ventil-O-Ring 14x1mm	Valve Seat O Ring 14x1mm
195	Schließ-Ventil, kpl.	Firing Valve Assembly
198	Schließ-Ventil-Feder	Firing Valve Spring
200	Piston (Kolbenstange)	Striker
205	Hauptfeder	Mainspring
210	Hauptfeder-Regler	Mainspring Adjuster
215	Sicherungsstift für 210	Adjuster Lock Pad
219	Regulator kpl.	Regulator Assembly
232	Regulator-Körper-O-Ring	Regulator To Body O Ring
235	Druckbehälter-Rohr	Cylinder
236	Regulator-Abschluß-O-Ring	Cyllinder To Regulator O Ring
241	Manometer-Überring	Manometer Cover Ring
245	Füll-Ventil	Filling Valve
250	Manometer	Manometer
251	Manometer-Dichtung	Bonded Seal
270	Laufhalter	Bridge Clamp
272	Vorderschafts-Schraube	Front Stock Screw
273	Puffer für Druckbehälter	Cylinder Bearer Pad
275	Spannarm	Cocking Arm
280	Feder für Spannarm	Top Sear Spring
281	Spannarm-Distanzhalter innen	Cocking Arm Spacer Inner
282	Spannarm-Distanzhalter außen	Cocking Arm Spacer Outer
284	Abzugsklinke, kpl.	Top Sear Assembly
295	Spannarm-Feder	Cocking Arm Spring
300	Mittelhebel	Middle Sear
305	Mittelhebel-Block	Middle Sear Block
310	Mittelhebel-Schraube	Middle Sear Screw
315	Abzugs-Drehblock	Trigger Pivot Block
321	Stellschraube für 315	Pivot Block Vertical Stop
322	Stellschraube für Abzugsweg	Pivot Block Horizontal Stop

Teile/Part-Nr	Bezeichnung	Description
325	Abzugsträger	Trigger Bar
328	Abzugsträger-Schraube	Trigger Bar Screw
330	Abzug	Trigger Pillar
331	Abzugs-Schraube	Trigger Pillar Screw
350	Abzugsschuh	Trigger Shoe
351	Abzugsschuh-Mutter	Trigger Shoe Nut
352	Abzugsschuh-Schraube	Trigger Shoe Screw
355	Gehäusestift 3x20 mm	Body/sear Pin 3x20mm
356	Gehäusestift 2x20mm	Body/sear Pin 2x20mm
360	Abzugsfeder	Trigger Spring
365	Abzugsfeder-Platte	Trigger Spring Plate
370	Einstellschraube für Abzugsgewicht	Trigger Spring Plate Screw
375	Begrenzungsschraube	Adjuster Screw
380	Schaftschraube (hinten)	Rear Stock Screw
385	Unterlegscheibe (vorne)	Stock Washer Front
386	Unterlegscheibe (hinten)	Stock Washer Rear
400	Schaftrücken-Träger (oben)	Stock Adjuster Top Plate
405	Schaftrücken-Träger (unten)	Stock Adjuster Bottom Plate
410	Träger-Bolzen	Stock Adjuster Pillar
415	TrägerAbschlußplatte	Stock Adjuster Locking Plate
420	Feststellschraube	Stock Adjuster Locking Screw
425	Schraubenführung	Stock Adjuster Locking Bush
430	Schraube für Träger (oben)	Top Plate Screw
431	Zwischenscheibe	Top Plate Washer
435	Schraube für 405	Bottom Plate Screw
440	Vorderschafts-Schiene	Stock Rail
445	Schienen-Schraube	Stock Rail Screws
450	Rechtsschaft	Rh Stock
450A	verstellbarer Schaftrücken, rechts	Rh Adjustable Cheek Piece
451	Linksschaft	LH Stock
451A	verstellbarer Schaftrücken, links	LH Adjustable Cheek Piece
456	Schaftkappe	Butt Pad
457	Schaftkappen-Basis	Butt Pad Base
458	Zwischenstück (Schaftverlängerung)	Butt Pad Spacer
460	Schaftkappen-Schraube	Butt Pad Srews
462	Gewindeplatte	Butt Pad Locking Plt
470	Gabelschlüssel	Spanner
480	Laufgewicht, vorne (40g)	Front Barrel Weight 40g
481	Laufgewicht,vorne (105g)	Front Barrel Weight 105g
485	Laufgewicht,verstellbar (30g)	Rear Barrel Weight 30g
490	Schraube für Laufgewicht	Barrel Weight Screw
495	Fixierplatte für Regulator	Regulator Locking Plate
496	Schraube für 495	Regulator Locking Screw
510	Nachfüll-Adapter	Din Adaptor
510V	Nachfüll-Adapter mit Entlüftungsschraube	Din Adaptor With Vent Screw
511V	Entlüftungsschraube	Vent Srew
515	Adapter-O-Ring	Adapter O Ring - Bs111
520	Adapter-O-Ring	Adapter O Ring - Bs116
540	Ersatz-O-Ring-Set Nr.128, 236,515,520	Spare O Rings No.128, 236,515,520
545	Inbusschlüssel Satz	Tool Set



RWS Mod. CA 100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