

HÄMMERLI®



AR20

Air rifle

Cal. 4.5 mm (.177)

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SAFE HANDLING OF GUNS



DESIGNATION



OPERATION



CARE



SAFETY INSTRUCTIONS

Learn how to handle your gun in a safe and proper manner. Remember that according to the basic rules of safety, touching a gun is the same as handling it.

- Always handle a gun as if it were loaded.
- Keep your finger out of the trigger guard and put it on the trigger only when you want to shoot.
- Use only ammunition that has been approved for this weapon.
- Always point the muzzle in a safe direction.
- Shooting is permitted only within one's own home, on police-approved shooting ranges and on enclosed private property where there is no risk of projectiles leaving the premises. Keep the danger area of the projectile in mind.
- Never transport a loaded weapon. Load a weapon only when you intend to fire it.
- Never point a weapon at people or animals. Avoid ricocheting. Never shoot at smooth, hard surfaces or at water.
- Before shooting, make sure that the target and surroundings are safe.
- Always make sure that the gun is not loaded when you transport it or take it from another person.
- Make sure you can control the direction of the muzzle if you stumble or fall.
- Wear safety glasses when shooting.
- Store your weapon in a safe place and in unloaded condition. Keep it out of reach of unauthorized persons (untrained persons, children, persons under 18). Store ammunition separately.
- Give this gun only to persons over 18 who are thoroughly familiar with its use, and always include the instruction manual.
- Modifications or repairs should be made only by authorized companies or gunsmiths.
- Never put down a loaded gun.
- Do not give your weapon to someone else unless you have unloaded it.



SAFETY INSTRUCTIONS



CARE

EN



CAUTION

For your own safety and the safety of others, carefully read these instructions before using this weapon. Buyers and owners must observe all rules concerning the use and ownership of air guns. Modifying this weapon may result in a change of its classification under weapons law and is therefore prohibited. In such cases the manufacturer's warranty will immediately become void.

Instructions for AR 20 air rifle

The gun remains under pressure even after removal of the compressed air cylinder. The air used must comply with DIN 3188 (breathing air). Do not store compressed air cylinders at temperatures above 50°C (122°F). Always adhere to the warnings and safety instructions of the manufacturer concerning the handling and storage of compressed air cylinders.

WARRANTY

During the legal warranty period, which begins on the date of purchase, Walther will repair or replace your weapon at no charge provided the defect was not caused by you. Return your weapon to an authorized dealer along with a description of the problem and proof of purchase.

The air guns manufactured by CARL WALTHER GmbH Sportwaffen are made according to the regulations of the PTB (Physikalisch-Technische Bundesanstalt), German federal law, the CIP regulations and the technical know-how of CARL WALTHER GmbH Sportwaffen.

We will not assume any liability whatsoever if this product is exported to territories outside of Germany and as a consequence does not comply with domestic legal requirements of these territories. It will be the sole responsibility of the importer to ensure compliance with local laws and regulations.

REPAIR

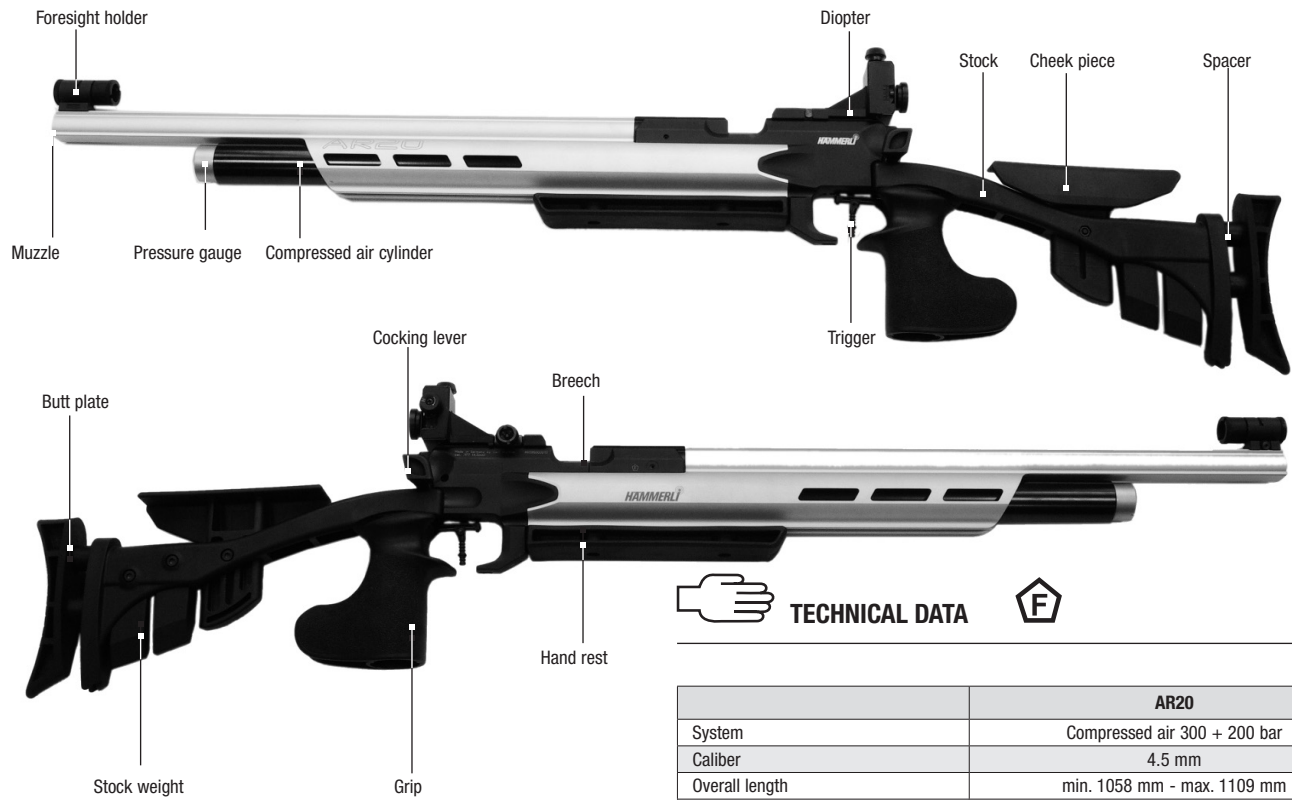
A weapon that does not work right is dangerous. Do-it-yourself repairs are difficult, and incorrect assembly can lead to dangerous malfunctions. Warning: Have your gun inspected and repaired only by an authorized dealer or gunsmith.

CARE

Clean the external metal parts with a soft cloth that has been moistened with gun oil.

PROBLEMS

	Possible causes					
	Cylinder is empty	Dirt in barrel	Cylinder not correctly screwed on	Wrong ammunition	Ammunition not properly loaded	Trigger not properly adjusted
Problems						
Poor shooting performance	●	●		●	●	
Gun does not shoot	●		●	●		●
Slow projectile	●	●		●	●	



TECHNICAL DATA



	AR20
System	Compressed air 300 + 200 bar
Caliber	4.5 mm
Overall length	min. 1058 mm - max. 1109 mm
Sight length	750 mm
Barrel length	500 mm
Weight (with cylinder)	3970 g
Muzzle velocity (energy)	up to 170 m/s
Propellant	Aluminum compressed air cylinder



HANDLING THE COMPRESSED AIR CYLINDER

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Note: To ensure that your gun works properly, please use only Walther accessories.

Insert the compressed air cylinder into the fore-end with the opening first and screw it tight (clockwise). The rifle is now under pressure. To test whether the cylinder has been screwed in correctly, make sure the gun is not loaded and shoot in a safe direction. If the gun doesn't fire, check the items under "Problems".

CAUTION

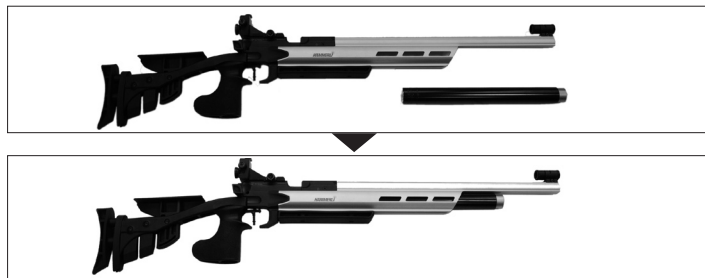
The airgun remains under pressure even after removal of the compressed air cylinder.

CAUTION

To release all the pressure, unscrew the compressed air cylinder and shoot in a safe direction until the gun can no longer fire.

CAUTION

When you pierce a compressed air cylinder, make sure that the barrel is pointing in a safe direction.



Filling procedure

The compressed air cylinder can be refilled at any time, even if it is not yet empty. When filling, observe the provisions of the TRG (technical regulations relating to pressurized gas). The maximum permissible filling pressure of 300 bars must not be exceeded under any circumstances. Observe applicable national statutory regulations for refilling. Cylinders which are leaky, have expired or are otherwise unsafe must not be refilled. Empty them in a safe manner. Screw the adapter onto the refill cylinder and tighten it. Then screw the compressed air cylinder onto the adapter and tighten it securely. Open the cylinder valve for approx. 5 s and then close it. Remove the cylinder and screw it back onto the gun. Compressed air cylinders must never be used or stored above maximum pressure.

Instructions on the use of compressed air cylinders

Compressed air cylinders which are leaky, damaged or more than 10 years old should be emptied in a safe manner and not used or filled again. Ten years after the manufacturing date, the compressed air cylinder must be tested at the owner's expense or replaced. The manufacturing date is recorded on the cylinder.

CAUTION

The air used must comply with DIN 3188 (breathing air).

CAUTION

Never try to use force when inserting a compressed air cylinder.

CAUTION

Do not store compressed air cylinders at temperatures above 50°C (122°F).



CAUTION

Do not use BBs, darts or similar unsuitable ammunition.

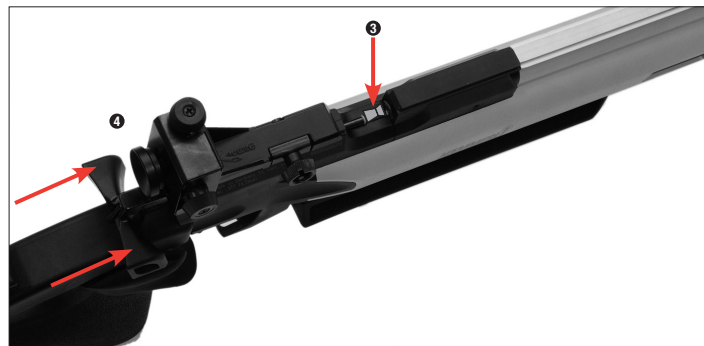


Loading

- ❶ Release the cocking lever.
- ❷ Pull back the cocking lever. The cocking piece is now cocked. The breech is freed.

CAUTION

Make sure that the muzzle is always pointing in a safe direction.



- ❸ Place a pellet in the breech. Observe correct position!
- ❹ Push the cocking lever forward until it clicks into place.

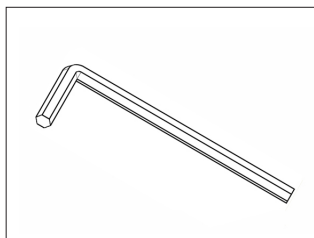
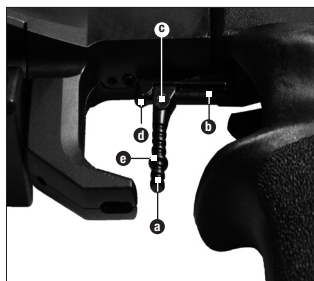


ADJUSTING THE TRIGGER

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CAUTION

Before performing any adjustment, assembly, care or cleaning work, always check the gun to be sure it is unloaded and the barrel is free of pellets and foreign matter. Always wear protective eyewear.



- c** 2.0 mm
- d** 1.5 mm
- f** 1.5 mm
- g** 1.5 mm
- h** 2.5 mm

TRIGGER FINGER PIECE

The trigger finger piece **3** can be individually adjusted according to the shooter's trigger finger. After the screw **2** has been loosened, the trigger finger piece can be pushed forward or pulled back on the guide **1** and can also be pivoted sideways. The height adjustment is made by moving the O-ring **4**. Another O-ring can be additionally mounted. The trigger finger piece is designed so that it can be used by both left-handed and right-handed marksmen. By fully removing the trigger finger piece and turning it by 180°, the length adjustment area can be extended in one direction.

TRIGGER PRESSURE POINT

The pressure point is set at the factory to the optimal setting. If a correction is required, then by turning the screw **1** to the right (clockwise), you can achieve a dry, direct trigger pressure point. Turning the screw to the left (counterclockwise) sets a "sluggish" pressure point. To shoot with trigger slack, avoid turning the screw too far to the right as this will neutralize the pressure point and it can no longer be felt and the hammer will no longer engage in the loading procedure.

TRIGGER WEIGHT

The trigger pull weight can be individually adjusted without intervals. The trigger pull weight is increased by turning the screw **1** to the right (clockwise). Turning the screw to the left (counterclockwise) produces a lower trigger pull weight.

TRIGGER STOP

A trigger stop can be set by turning the screw **1** to the right (clockwise). The trigger stop is disabled by turning the screw to the left (counterclockwise).

TRIGGER SLACK

The trigger slack, i.e. the path of the trigger finger piece **3** up to the pressure point, can be individually adjusted. The trigger slack is reduced by turning the screw **4** on the trigger finger piece to the right (clockwise). Turning the screw to the left (counterclockwise) produces a lower trigger pull weight.

DIRECT TRIGGER

To set the trigger to "direct", that is without trigger slack, the screw **1** is turned at least two rotations further to the left (counterclockwise) than described above for an optimal pressure point. That is, the screw no longer contacts. The pressure point can now be set as described above with the screw **1** on the trigger holder **2**.

**CAUTION**

Shooting with insufficient pressure can cause a pellet to lodge in the barrel.

Insert filled compressed air cylinder. Close cocking lever and shoot without a pellet.
The blocked pellet will fire.
If this procedure fails to resolve the problem, push the pellet out backwards using a cleaning brush.

**ADJUSTING THE SIGHT**

Push the diopter on the dovetail rail and tighten hand-tight at the required eye base with the knurled screw.

Height and lateral adjusting screw

Adjustments are made using the two adjusting knobs.

The impact point is adjusted by 0.5 mm at 10 m distance per click.

Adjustment ranges

Height adjustment 100 mm, lateral adjustment 80 mm.

Excessive turning when making adjustments will impair the accuracy.

Turning direction

Elevation adjustment
= when firing high turn clockwise
= when firing low turn counterclockwise

Windage adjustment
= when firing to the right turn clockwise
= when firing to the left turn counterclockwise



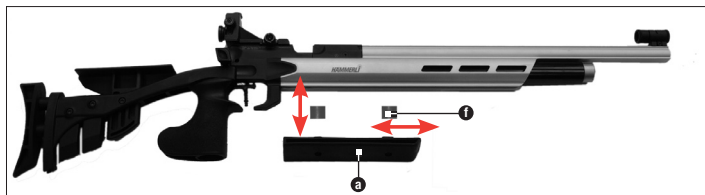
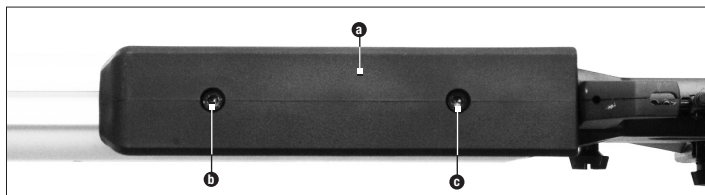


STOCK ADJUSTMENT

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CAUTION

The specifications of the ISSF sports ordinance must be observed with all settings on the stock.



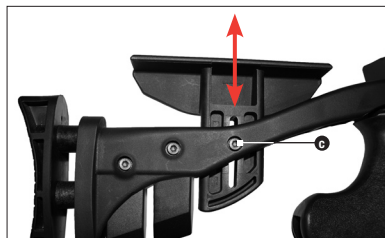
HAND REST

Adjust the hand rest **a** lengthways by loosening the two screws **b**. You can use spacers **d** to adjust the height of the hand rest.



GRIP

The grip can be turned on its own axis by loosening the screw. The grip can be used by both left-handed and right-handed shooters.

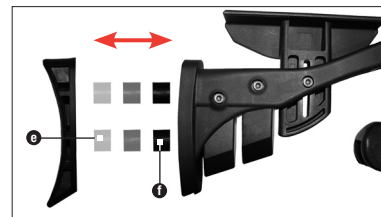
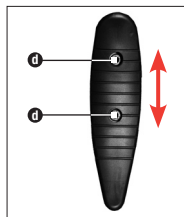


CHEEK PIECE

Loosen screw **c** to adjust the height of the cheek piece.

The cheek piece can be used by both left-handed and right-handed shooters.

To switch it, loosen screw **c** all the way, remove the cheek piece, turn it by 180°, put it back in and tighten the screw.

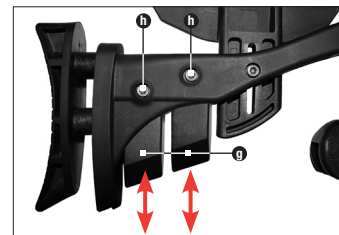


BUTT PLATE

Loosen screws **d**, adjust the height of the butt plate **e** and retighten the screws. Use the spacers **f** to adjust the length of the stock.

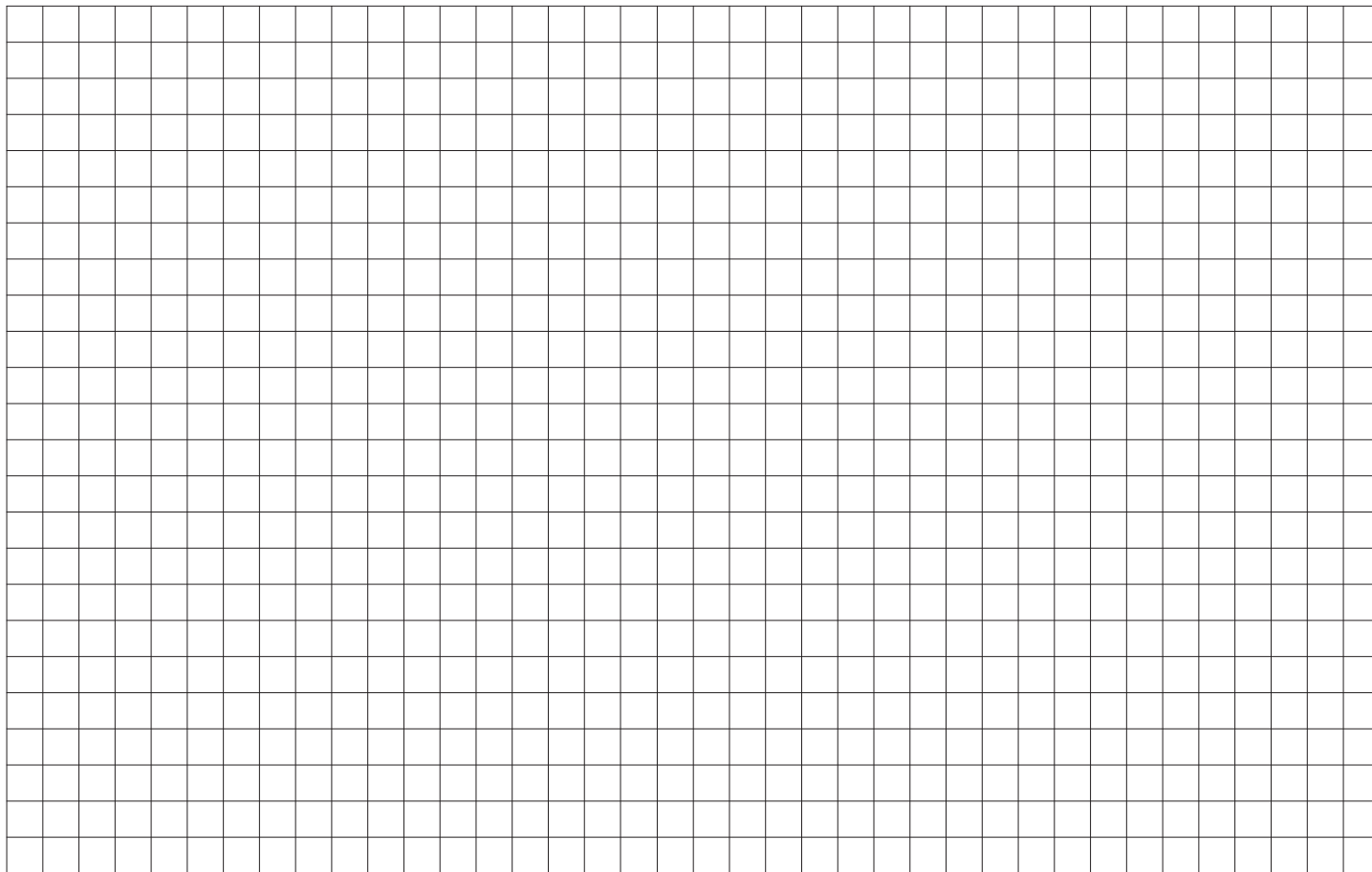
STOCK WEIGHTS

Insert the required number of stock weights **g** into the stock and secure them in place with screw **h**. (A stock weight weighs approx. 200 g).





NOTES





Carl WALTHER GmbH - Sportwaffen

P.O. Box 27 40

D-59717 Arnsberg | Germany

Phone: +49 29 32 / 638-100

Fax: +49 29 32 / 638-149

service@carl-walther.de | sales@carl-walther.de

www.carl-walther.com | www.haemmerli-ar20.com

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