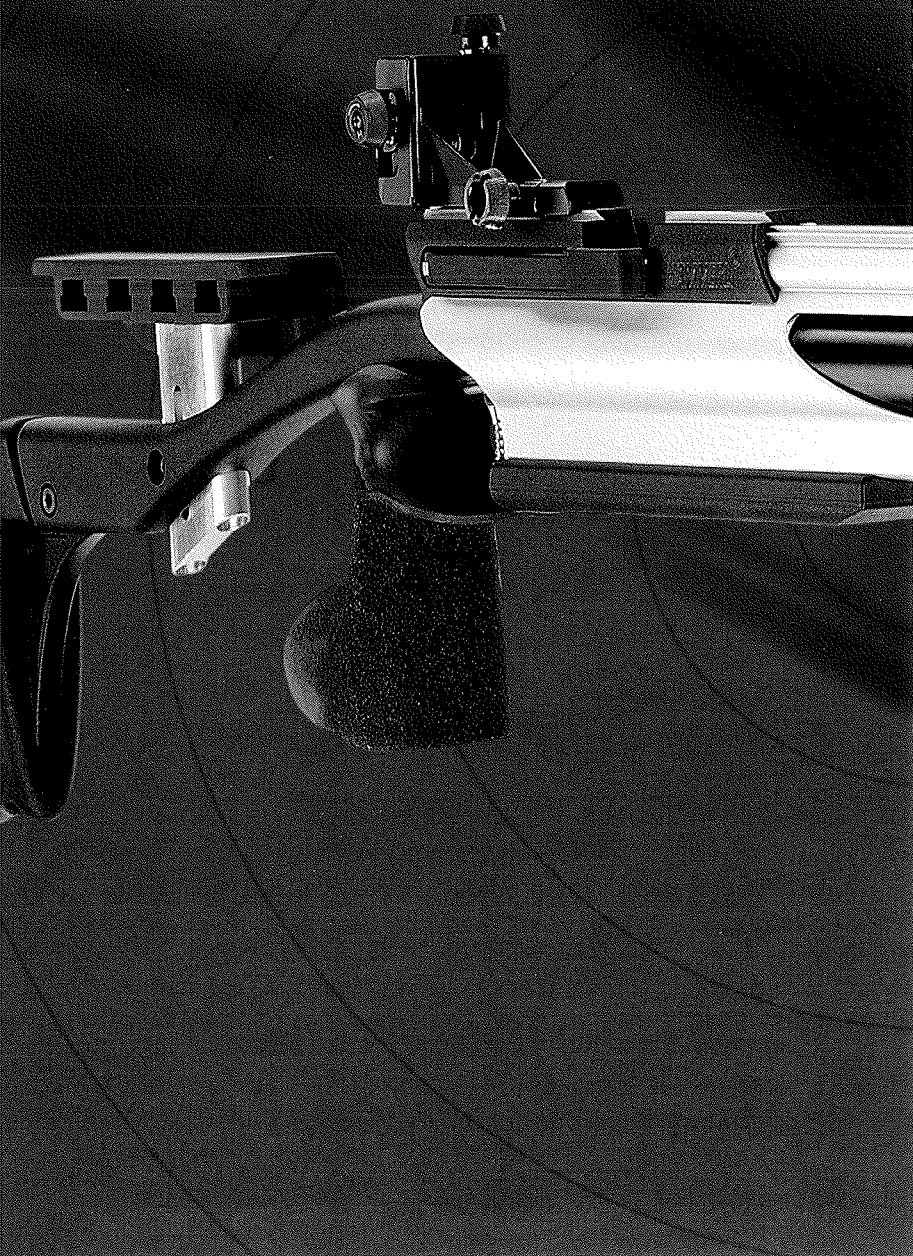
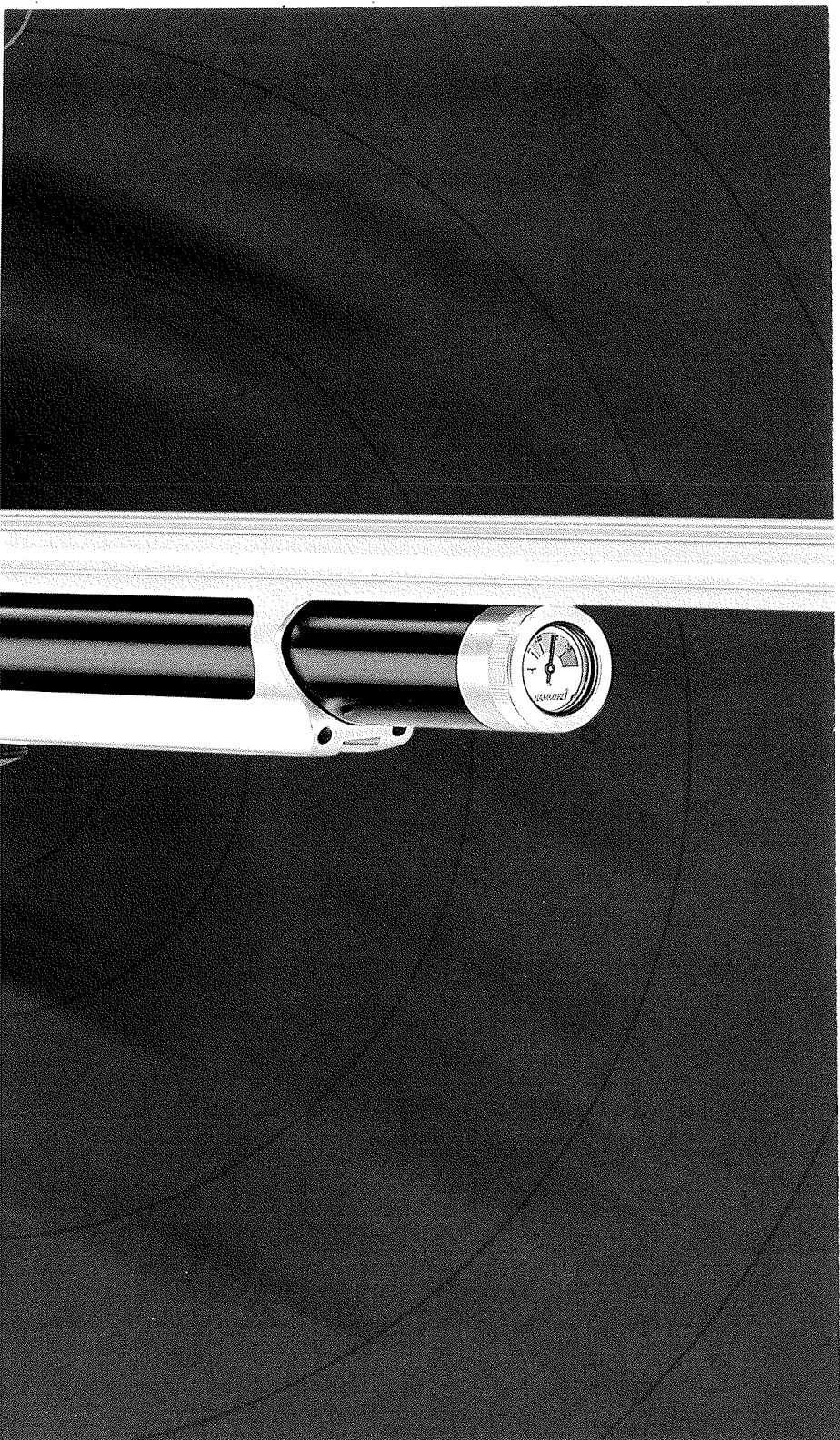
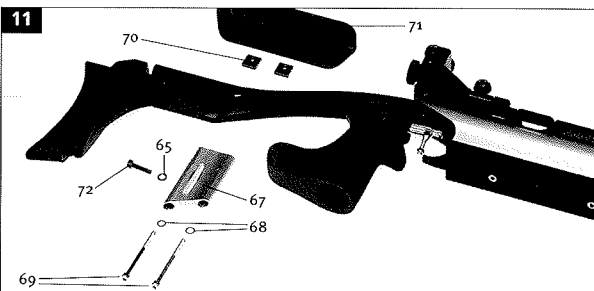
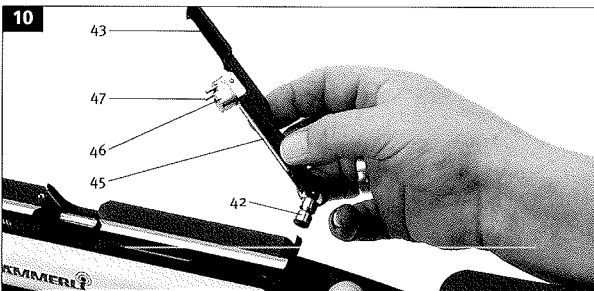
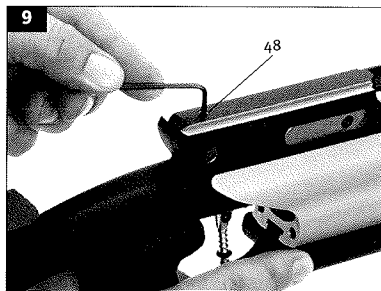
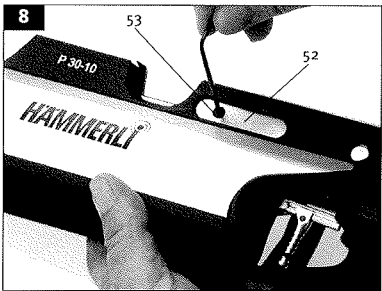
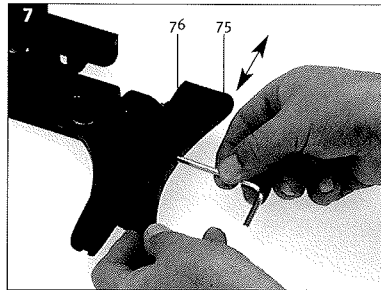
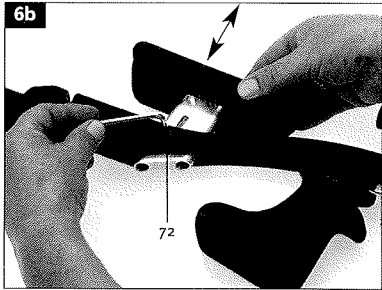
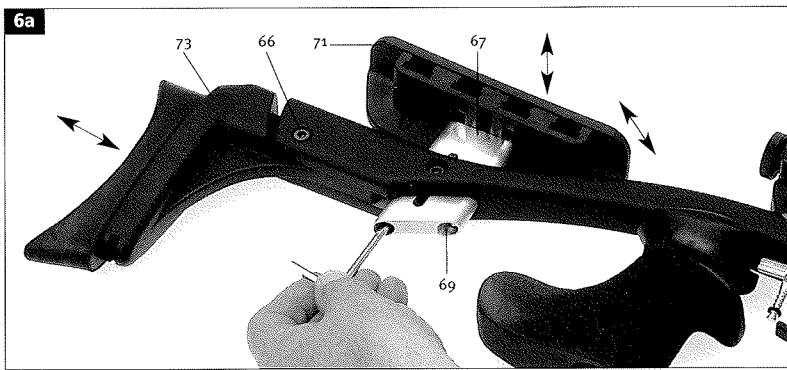
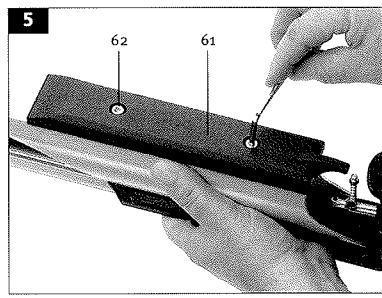
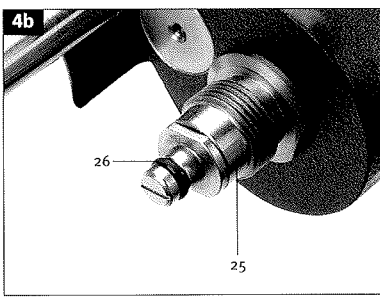
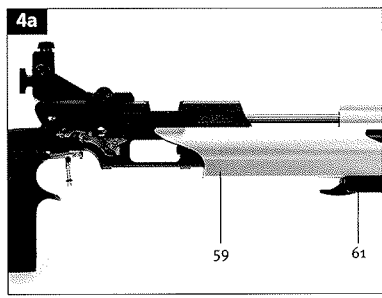
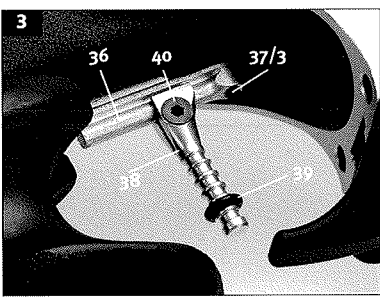
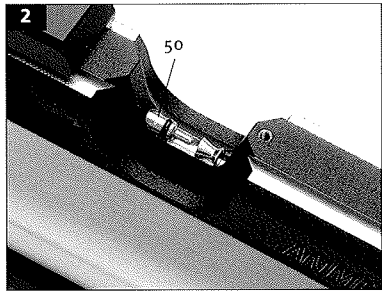
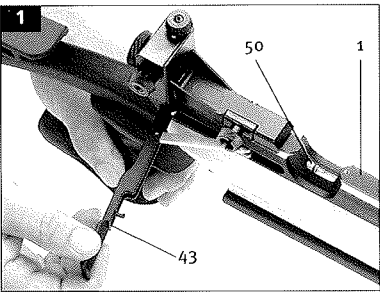


HÄMMERLI AR30










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Operating Instructions


Operating instructions AR30

 **Caution:**
Before using this sports gun, be sure to carefully read the instructions and warnings included in this reference manual!

These instructions have been compiled to explain how this sports gun functions, how it must be handled and how it must be maintained. These instructions must always accompany the gun, including with a change of ownership.

 **Warning:**
Guns are dangerous! Read the instructions and warnings contained herein carefully and precisely before you use the gun!

 **Never use a gun without a clear understanding of its properties, functions and safety regulations!**

 **Even the safest of guns can be dangerous for you or for others because of improper handling, inadequate care or changes!**

Dear Sports Marksman/Markswoman,

Many thanks for opting for the new AR30 Air Gun. You may have already used our products in other shooting disciplines. If you haven't, however, then we would like to take this opportunity to warmly welcome you as a Hämmerli marksman/markswoman. As of immediately you will benefit from our 140 years of know-how in shooting and firearms production technology, as well as from our worldwide renowned quality and precision standards and our highly efficient service infrastructure.

With the hi-tech design and innovative concept of the AR30, we at Hämmerli have once again broken new ground in enhancing your success potential and your sporting pleasure. So please, enjoy both as much as you can!

Your Hämmerli Team

Please be sure to observe the following!

Before you use your air gun, please familiarize yourself with the operation and functioning of the gun using the operating instructions. Even the safest gun can be dangerous for you or for others due to improper handling! Always basically hold your gun so that it never endangers anybody. Even an unloaded gun must essentially be handled as if it were loaded.

Improper handling and inadequate care can impair the functioning and safety of your gun.

Improper interferences in the mechanical workings, damages caused by violent forces and alterations by third parties release the manufacturer from all guarantee claims.

Work on the gun may only be performed by specialists in this field. Have your gun checked for safety and proper functioning at regular intervals by a recognized specialist firm.

These instructions must always accompany the gun if it is being passed on to another person.

Firearms must always be stored where they are inaccessible for unauthorized persons, **especially children**. Ammunition must always be stored separate from the firearm.

Warning:

The trigger pull weight can be regulated with fine adjustment on match guns to achieve maximum accuracy in competition. **A shot can therefore be discharged with a setting of the trigger pressure that is too low**, even with just light contact with the trigger or the gun being jolted or impacted.

Please also always observe the applicable legal regulations for the use of sports guns in your country.

Operating instructions AR30

⚠ Basic Safety Regulations for the Safe Handling of Firearms:

The following safety regulations must always be observed by firearms owners! Safe handling of firearms is absolutely necessary for your own safety and the safety of others.

- 1. Fully familiarize yourself with and study the technical properties of the functioning and operation of the gun!**
All guns do not function the same (especially with regard to the trigger, loading and unloading). You should therefore spend plenty of time getting to know the characteristics of your gun!
- 2. Always keep the muzzle pointed in a safe direction!**
Never point the muzzle towards yourself or another person, even when dry training or with other procedure steps, such as loading, unloading, etc.! A safe direction means in a direction in which no person or animal can be endangered, or where an object cannot ricochet the round, or the round cannot penetrate an object.
- 3. Firearms must always be unloaded if they are not going to be used immediately!**
If a gun is not going to be used straight away it may never be kept loaded. Firearms and ammunition must be kept stored safely separate from one another, out of sight and reach of third parties, especially children, visitors, etc. The owner must ensure that unauthorized parties do not come into contact with the gun or the ammunition.
- 4. Ensure that the barrel is free of foreign matter, dirt, grease, oil, water, etc. before firing!**
Even a small amount of dirt, excess grease or oil can damage the barrel and endanger you or others present. Always be sure that only the correct ammunition in the correct calibre and in flawless quality is used for the gun that you use.
- 5. Before shooting, ensure that your target is perfectly safe!**
Never shoot before you are fully certain where the bullet will hit. Be fully sure that the bullet will be stopped directly behind the target, as the bullet is, of course, still dangerous even at long distances. Take plenty of time to be absolutely sure before you pull the trigger.
- 6. Always wear eye and ear protection when shooting!**
Every shooter and every person in their immediate vicinity must wear protective goggles and ear protectors as the noise can of course damage your hearing.
- 7. Never carry a loaded weapon on your person!**
Only load the gun immediately before it is to be used. Never let a loaded gun fall and never throw a loaded gun.
- 8. Never shoot at a hard surface or at water!**
The bullet could ricochet uncontrolled and injure or kill you or a third party with the very high force that propels it.
- 9. Never transport a loaded firearm!**
Firearms must always be unloaded before being transported. A purpose-built case or sheath should be used for transporting firearms to and from the firing range.
- 10. Firearms must never be used if alcohol or other drugs have been consumed!**
Alcohol, medication and other drugs affect your judgment, your corporal constitution and your ability to think and act. Such firearms use is punishable by law.

1. Care

⚠ Always be unconditional sure that the gun is unloaded!

The metal parts must be treated after use for moisture with an acid-free gun oil. The moving parts, especially hammer and valve parts are treated at the factory with a long-life grease and don't have to be greased again.

The interior of the barrel may only be cleaned using trade standard felt pellets, which are shot through the barrel. Under no circumstances should you pass a cleaning rod through the muzzle into the inside of the barrel. Have your sports gun maintained regularly by a specialist to guarantee long-term flawless functioning.

2. Loading mechanism

2.1 Cocking and loading

By cocking the loading lever (43), the loading pin (50) releases the loading recess and cocks the hammer. (fig. 1).

Place the Diabolo into the loading recess as shown in fig. 2 and close the loading lever (43) until it is parallel with the receiver (1) again or has engaged.

By pulling the trigger (38), the pre-cocked hammer (5) is released and opens the valve (10 – 13) of the firing chamber, whereby the pre-compressed air propels the Diabolo out of the barrel (55).

⚠ Caution: Pulling the trigger with an open or not correctly closed loading lever can cause damage!

⚠ Caution: Never leave a loaded gun out of your hands. Never carry a loaded weapon on your person.

⚠ Caution: If the gun falls in a loaded or safety-off condition the impact may cause a shot to be discharged.

2.2 Unloading

⚠ Caution: Observe the following instructions very precisely so that potential accidents can be prevented.

Always point the muzzle in a safe direction and **keep your finger away from the trigger and outside the trigger guard.**

Remove the bullet by pointing the muzzle in a safe direction and discharging the shot.

⚠ Caution: The gun must be basically checked to see if it is unloaded and the barrel is free of Diabolos or foreign matter before any adjustment, assembly, care and cleaning work. Always wear protective eyewear.

Operating instructions AR30

3. Trigger

3.1 Trigger finger piece (fig. 3)

The trigger finger piece (38) can be individually adjusted according to the shooter's trigger finger. After loosening the screw (40), the trigger finger piece can be pushed forward or pulled back on the guide (36) and can be also be pivoted sideways. The height adjustment is made by moving the O-ring (39). 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 still be extended in one direction.

3.2 Trigger slack

The trigger slack, i.e. the path of the trigger finger piece (38) up to the pressure point can be individually adjusted. The trigger slack is reduced by turning the screw (37/3) on the trigger finger piece to the right (clockwise). Turning the screw to the left (anticlockwise) produces a longer trigger slack.

3.3 Trigger pull weight

The trigger pull weight can be individually adjusted without intervals. The trigger pull weight is increased by turning the screw (35) to the right (clockwise). Turning the screw to the left (anticlockwise) produces a lower trigger pull weight.

3.4 Trigger pressure point

The pressure point is set at the factory to the most optimal setting. If a correction is required, then by turning the screw (37/1) to the right (clockwise), you can achieve a dry, direct trigger pressure point. Turning the screw to the left (anticlockwise) 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 would no longer engage with the loading procedure.

3.5 Triggerstop

A trigger stop can be set by turning the screw (37/2) to the right (clockwise). The trigger stop is disabled by turning to the left (anticlockwise).

3.6 Direct trigger

To set the trigger to „direct“, that is without trigger slack, the screw (37/1) is turned at least two rotations further to the left (anticlockwise) 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 (37/3) on the trigger holder (36).

4. Sights

4.1 Diopter mounting

Push the diopter (78) on the prism guide and tighten hand-tight at the required eye base with the knurled screw.

Further tightening with a tool, for example, is not necessary.

4.2 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.

4.3 Adjustment ranges

Height adjustment 10 mm;
lateral adjustment 8 mm.

Excessive turning when making adjustments will impair the accuracy. A guarantee will not be honoured if the adjusting screw is excessively tightened.

4.4 Turning direction

Height adjustment = when firing high turn clockwise

= when firing low turn anticlockwise

Lateral adjustment = when firing to the right turn clockwise

= when firing to the left turn anticlockwise

5. Shot speed

The chamber pressure can be set with the screw (24) and the spring pressure of the hammer spring (4) can be set with the screw (2). The shot speed can then be influenced by regulating both screws.

The speed is factory-set at approx. 173 m/s. This setting should only be changed by a corresponding specialist. A setting that causes **a shot energy of over 7.5 joules** (corresponds with a speed depending on the shot of approx. 175 m/s) **is not permissible for legal reasons.**

Operating instructions AR30

6. Compressed air cylinder

The AR30 Air Gun is equipped with a screw-on/screw-off compressed air cylinder, which is only permitted for compressed air of **max. 200 bar**. It can be screwed off at any time, filled or exchanged.

⚠ Caution: When fixing/removing the compressed air cylinder, it must be fully screwed on/screwed off. That is, changing the turning direction while fixing/removing must be avoided, as otherwise the O-ring (26) can be damaged.

⚠ Warning
When using compressed air cylinders or compressors with 300 bar, a pressure reducer that is set to 200 bar must be used. It must be ensured with re-filling that only oil and water-free compressed air with a maximum pressure of 200 bar is used. Filled compressed air cylinders may never be subjected to temperatures over 50°C. The valve on the compressed air cylinder may not be altered. The provisions of the TRG (technical regulations relating to pressurized gas) for filling compressed air cylinders must be complied with.

6.1 Filling compressed air cylinders

Screw and tighten the supplied adapter to the compressed air cylinder. Screw compressed air cylinder (79) off the sports gun and then screw on to the adapter of the compressed air cylinder. Slowly open the cylinder valve of the re-fill cylinder and close again after approx. 1 minute. Screw off the now filled compressed air cylinder and firmly screw on to the sports gun by hand until it stops.

The O-ring must be greased at regular intervals with special lubricating grease (e.g. Vaseline).

6.2 Emptying the compressed air cylinder

The compressed air cylinder (79) can be emptied with the supplied adapter. To do this it is screwed on to the cylinder until the air can be heard flowing out.

The compressed air cylinder must be tested by an authorized centre (e.g. Hämmerli) after ten years. The year of manufacture is shown on the cylinder.

If this safety measure is not observed or if the compressed air cylinder and/or refill cylinders are improperly handled, then Hämmerli will not accept liability for damages of any kind.

6.3 Changing the O-ring on the connection piece (fig. 4b)

If the O-ring (26) is damaged or torn by numerous or improper changing of the compressed air cylinder (79), it must be replaced. To do this the hand rest (61) must be shifted into the forward half of the stock (see 7.1) by loosening the screws (62), and the two screws (60) must be removed from the forearm (59). The forearm can be carefully shifted forward (fig. 4a). Remove the O-ring (26) and push a new O-ring on to the connection piece (25) with the mounting mandrill. Grease the O-ring with special lubricating grease (e.g. Vaseline). Carefully push the forearm (59) over the barrel (55) again up to the butt stock (1). Tighten the screws (60) and position the hand rest (61) again.

7. Stock adjustment

⚠ Caution: The specifications of the ISSF sports ordinance must be observed with all settings on the stock!

7.1 Hand rest

(fig. 5)

The hand rest (61) can be adjusted lengthways by loosening the two screws (62).

Caution: By shifting the hand rest forward, the integrated trigger guard is also shifted.

7.2 Handle

The handle can be turned on its own axis by loosening the screw (66).

The handle is designed as a universal handle, that is it can be used by both left-handed and right-handed shooters.

7.3 Stock plate

(fig. 6a/b)

The stock plate (71) can be shifted laterally and diagonally by loosening the screws (69). Four guide slots are integrated on the underside of the stock plate (71), via which three different length positions can be set. To do this the screws (69) on the support (67) must fully loosen. Remove the cocking slide (70) from the respective guide slots and re-insert in the required position. Tighten the screws (69) again.

The height can be set to the required position by loosening the screws (72).

7.4 Stock extension

(Positions, see fig. 6a)

To adjust the length, loosen the screw (66), shift the stock cap (73) to the required position and tighten the screw again.

7.5 Stock cap

(fig. 7)

Height adjustment:

Loosen screw (76), move the stock cap (75) to the required position and tighten the screw again.

Turning the stock cap at an angle:

Loosen the screw (76) and remove from the stock cap (75). The stock cap can be set on both sides in the angled positions 7° and 15°. To do this the spigot of the stock cap guide (74) must be inserted into the corresponding hole of the stock cap (75), that is, for the 7° position, the spigot of the stock cap guide (74) must be turned downwards. Then tighten the screw (76) again.

7.6 Weight change

The eight recesses of the hand rest (61) can be filled as required with the weight stones available as accessories in order to attain an optimal balance of the sports gun.

The weights are positioned from above in the respective recess after the hand rest has been removed.

Operating instructions AR30

8. Right/left-handed use

The AR30 Air Gun is basically designed as a universal gun, that is, it can be converted with very little effort from left to right-handed use.

8.1 Loading mechanism

(fig. 8 – 10)

Unload the sports gun before changing the loading mechanism, as unintentional activation of the trigger with opened loading lever can cause damaging. As the next step, the screw (53) and the cover (52) can then be removed. Then pivot out the loading lever (43), the loading bar (45) and the coupling piece (46) together (similar to the loading movement). After the screw (48) has been loosened (approx. 4 rotations anticlockwise) the pivot pin (42) can be pulled out of the hole with the attached parts and re-inserted on the opposite side. It must be ensured when inserting the coupling piece (46) that the lower of the two pins (47) enters the hole of

the loader coupling (49) and the loader pin (50) lies in the catch stop of the loader coupling (49). Then fit the cover (52) on and tighten the screw (53) from the free side. Push the pivot pin in against the butt stock (1) and fix with the screw (48).

8.2 Stock cheek

(fig. 11)

Changing the side of the stock cheek (71) is performed similar to the length positioning (see 7.3). As the stock cheek is symmetrically designed, it can be turned by 180° after the screws (69) have been loosened and screwed to the support (67) again.

9. Spare parts list

Important:

The article and gun number must be provided with each order for a spare part.

Item	Part description	Article no.	Item	Part description	Article no.
1	Butt stock	1 701 000	41	Compressed spring	1 701 660
2	Mainspring screw	1 701 100	42	Pivot pin	1 701 700
3	Valve base	1 701 190	43	Loading lever	1 701 710
4	Firing spring	1 701 110	44	Cylinder pin	1 701 730
5	Hammer	1 701 120	45	Loading bar	1 701 720
6	Firing valve cover	1 701 130	46	Coupling piece	1 701 820
7	O-Ring	1 701 140	47	Cylinder pin	1 701 830
8	O-Ring	1 701 150	48	Grub screw, M5x12 m, cone point	1 401 760
9	Pin	1 701 160	49	Coupling	1 701 800
10	Firing valve lifter	1 701 170	50	Loading pin	1 701 810
11	Flat seal	1 418 082	51	O-Ring	34 170 106
12	Spannscheibe	1 701 240	52	Cover	1 701 840
13	Sicherungsscheibe	1 701 180	53	Cylinder screw	1 701 850
14	Firing chamber cover	1 701 210	54	Complete butt stock	1 700 500
15	O-Ring	1 701 230	55	Barrel, .177	1 702 000
16	Compressed spring	1 701 220	56	O-Ring	1 702 010
17	Complete pressure reducing valve	1 701 300	57	Back-up ring	1 702 050
18	Connection piece	1 701 310	58	Grub screw	1 701 560
19	O-Ring	1 701 320	59	Forearm	1 702 100
20	O-Ring	1 701 330	60	Countersunk screw with 16kt.	1 702 110
21	Piston	1 701 350	61	Hand rest	1 702 130
22	O-Ring	1 701 360	62	Cylinder screw with flange	34 170 551
23	Compressed spring	1 701 380	63	Groove stone for hand rest	34 170 964
24	Worm screw	1 701 390	64	Handle	1 702 200
25	Insert for connection piece	1 701 400	65	Washer	1 702 280
26	O-Ring	1 701 410	66	Cylinder screw with 16kt.	1 702 290
27	Compressed spring	1 701 460	67	Stock plate support	1 702 300
28	Tappet	1 701 450	68	Washer	1 702 320
29	Worm screw with spigot / Threaded pin with spigot	1 701 490	69	Cylinder screw with 16kt.	1 702 330
30	Pin with neck	1 701 500	70	Cocking slide	34 170 546
31	Circlip	1 701 510	71	Stock cheek	1 702 350
32	Holding pawl, smoothed	1 701 530	72	Cylinder screw with 16kt.	1 702 370
33	Release pawl, smoothed	1 701 550	73	Butt stock plate	1 702 400
34	Compressed spring	1 701 570	74	Butt stock guide	34 170 535
35	Worm/ screw / Threaded pin	1 701 580	75	Butt stock cap	34 170 532
36	Trigger holder	1 701 600	76	Cylinder screw with flange	1 702 420
37	Worm / Threaded pin	1 701 560	77	tunnel front side	34 170 182
38	Trigger finger piece	1 701 630	78	Gamo Diopter	34 170 801
39	O-Ring	1 701 640	79	Complete compressed air cylinder	34 170 630
40	Countersunk screw with 16kt.	1 701 650			

Operating instructions AR30

10. Standard accessories

1 700 900	Operating instructions
1 309 130	6kt key sw1.5
1 309 140	6kt key sw2
1 309 120	6kt key sw2.5
1 206 030	6kt key sw4
1 409 430	Filling adapter for compressed air pump and cylinder
1 701 410	Spare O-ring for connection piece
34 170 610	Mounting mandrill for O-ring

11. Special accessories

1 702 150	Weight stones for hand rest
34 170 630	Complete AR50/AR30 compressed air cylinder

12. Technical data

Calibre	.177 (4.5mm)
Overall length	1093 mm to 1142 mm
Overall width	45 mm
Overall height	Without diopter, approx. 205 mm
Overall weight	approx. 3,9 kg
Compressed air supply	Operating pressure, max. 200 bar
Propellant	Compressed air
Barrel length	495 mm
Shot speed	approx. 170 m/s
Firing capacity	Approx. 400 shots per filling

Subject to technical changes!

13. Provisions of guarantee

Should the air gun become defective due to material or production faults, Hämmerli AG shall be obliged to repair the air gun for the purchaser of the air gun for a guarantee period of 1 year, beginning on the date the air gun is purchased. **You should therefore send us the guarantee card completely filled out within 8 days of purchasing your sports gun.** Our customer service is, of course, available to you at all times.

The guarantee shall **not** cover normal wear and tear, the effects of improper handling, usage for other than the intended purposes, insufficient care, interference by unauthorized persons, wilful damage and cleaning work.

Procedure to Follow

Should you experience any problems with your sports gun, bring it to your specialist dealer or send the sports gun to the address listed on the rear side. The sports gun will be delivered directly back to you after it has been repaired.



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Technische Änderungen vorbehalten
Subject to technical modifications
Sous réserve de modifications techniques sans préavis
Con riserva di modifiche tecniche