



LG 20

Bedienungsanleitung
Operator's manual

STEYR SPORTWAFFEN GmbH, Olympiasstraße 1, A-4432 Ernstshofen/Austria
Tel.: +43/(0)7435 / 20259-0, Fax +43/(0)7435 / 20259-99
e-mail: office@steyr-sportwaffen.com
<http://www.steyr-sportwaffen.com>



ATTENTION:

This operator's manual should be read carefully before using the rifle!

NOTE:

Observe the regulations of the ISSF during adjustments.

IMPORTANT MEASURES FOR HANDLING OF FIREARMS

All firearms are dangerous objects, storage and use of which demand utmost caution.

Always treat an unloded weapon as if it were loaded.

Never put your finger on the trigger, except when actually firing a shot. Always ensure that the weapon is pointing in a safe direction. Keeping the weapon in perfect condition insures safety.

Weapons always have to be stored out of the reach of unauthorized persons.

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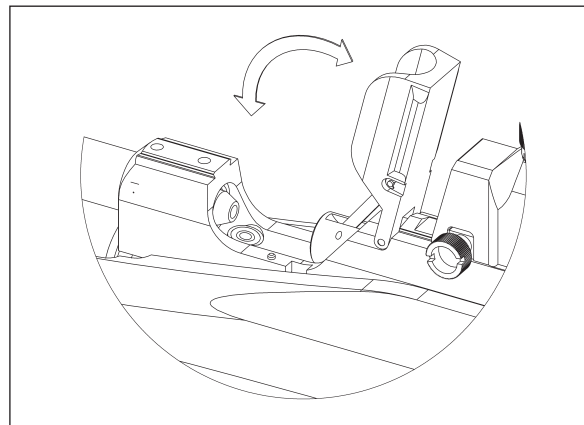
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1 TECHNICAL DATA

Caliber.....	4,5 mm (.177)
Overall height	195 mm - 235 mm (without sight)
Overall length	1008 mm - 1117 mm
Overall width	52 mm
Sight length.....	700 mm - 875 mm
Barrel length	420 mm
Total weight without additional weights and sight heights	appr. 4030 g
Maximum filling pressure	200 bars
Power max	7,5 Joules

2 COCKING, LOADING AND SHOOTING

Pull back the loading gate all the way to the rear, this cocks the rifle and opens the loading port of the barrel. Insert a pellet and fully close the loading gate. The rifle is ready for firing.



3 SIGHT ADJUSTMENT

The setscrews have to be turned on the rear sight as follows:

High hit	turn height-adjusting knob direction "H"
Low hit	turn height-adjusting knob direction "T"
Right hit	turn side-adjusting knob in direction "R"
Left hit	turn side-adjusting knob in direction "L"

The length of sight is individually adjustable by moving the rear sight and front sight tunnel. Optional: The rear and front sight are adjustable for lateral offset and height due to different distance discs. In addition it can be moved laterally up to 7 mm.

Please note: If adjustments of front and rear sight heights are at the maximum of 60 mm (middle of front sight to middle of barrel) the riser blocks of rear sight must be 2.75 mm (smallest additional disc) higher than front sight!

Please note: You must use the right length of screw, if too long of a screw is used, then surface of the housing will be damaged!

4 TRIGGER ADJUSTMENT

Please note: Before making any changes on the trigger, ensure that the weapon is unloaded!

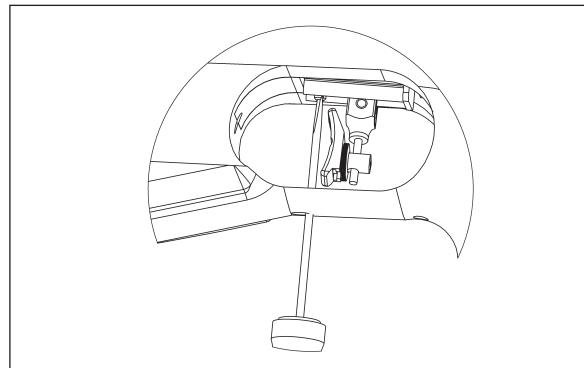
The trigger has the following individual adjustments:

- First stage travel adjustment
- First stage weight and single stage trigger adjustment
- Second stage weight adjustment
- Trigger blade adjustment

4.1 First stage travel adjustment

Turning the screw

clockwise = shorter first stage travel
counter-clockwise = longer first stage travel

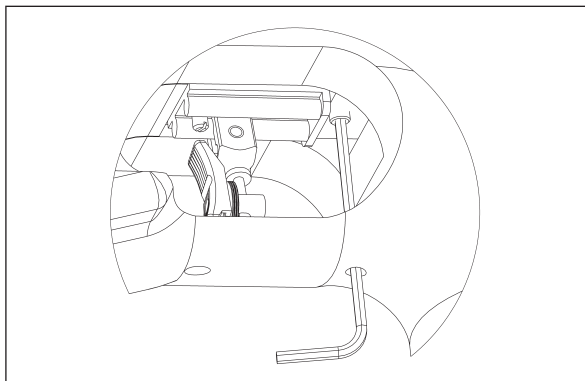


4.2 First stage weight and single stage trigger adjustment

Turning the screw

clockwise = higher first stage pressure
counter-clockwise = lower first stage pressure

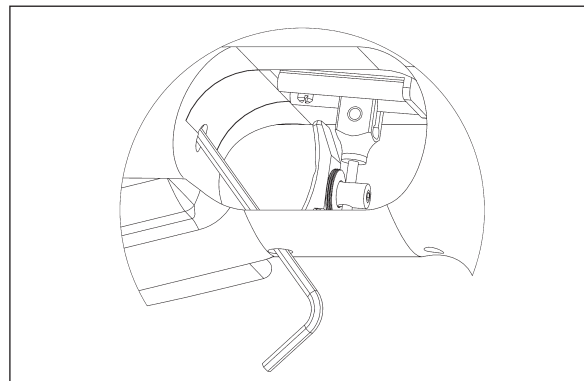
To get a single stage trigger, turn the screw counter-clockwise completely until first stage pressure is equal to zero.



4.3 Second stage weight adjustment

Turning the screw

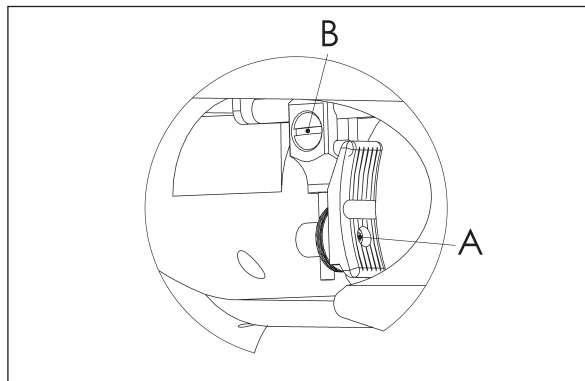
clockwise = heavier second stage pull
anti-clockwise = lighter second stage weight



4.4 Trigger blade adjustment

Loosen countersunk **screw A**, the trigger blade may be **moved in height and rotated**.

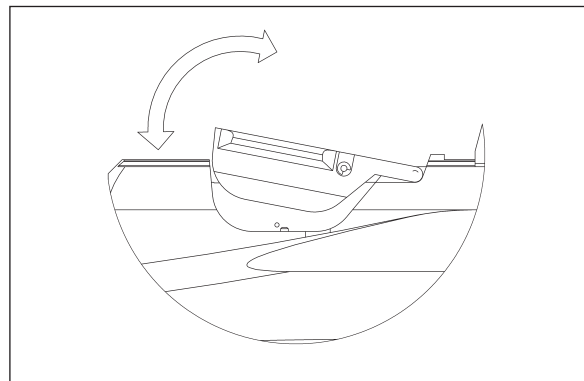
Loosen countersunk **screw B**, the trigger blade may be **moved longitudinally and can be angled**.



5 DRY FIRING MECHANISM

The loading gate is pulled backwards to the stop and then be moved forward again until the first resistance is felt.

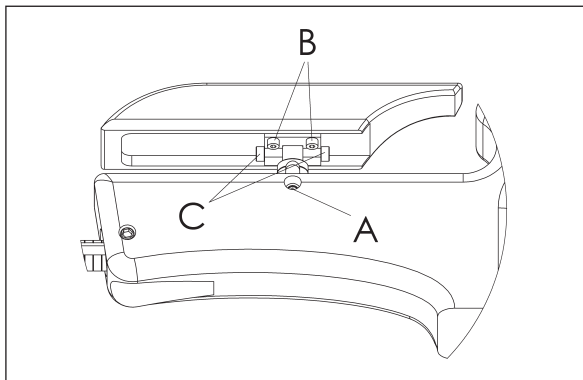
If the rifle already cocked, the dry firing mechanism can be used by opening the loading gate only.



6 CHEEK PIECE ADJUSTMENT

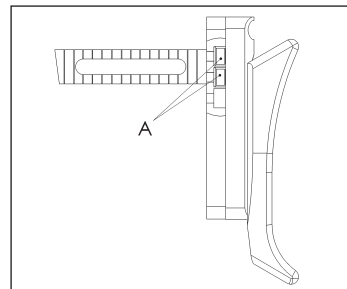
Screw A allows the cheek piece to be **adjusted in height**.
Loosening **screws B**, the cheek piece can be **moved laterally and turned**.

Loosening **screw C**, the cheek piece can be **angled**.



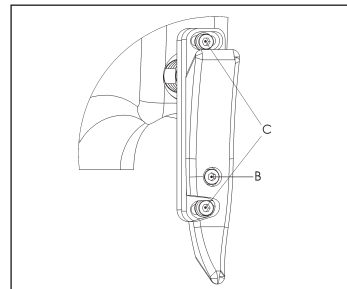
7 BUTT PLATE ADJUSTMENT

The plate of the butt plate can be adjusted in **2 different heights** by loosening **screws A**.

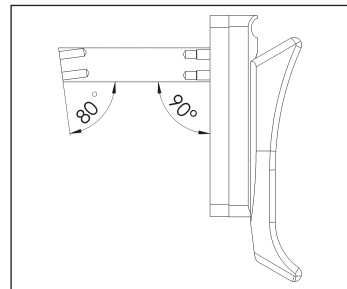


Screw B allows the butt plate to be **moved in length and swiveled**.

After loosening **screws C**, the butt plate can be **moved laterally**.



Additionally the plate can be adjusted in two different angles: **90°** and **80°**.



8 REPLACING AND REFILLING THE COMPRESSED-AIR CYLINDER

The legal requirements and rules of the respective country must be adhered to. Compressed-air cylinders have to be inspected after 10 years exclusively by the manufacturer. It is the responsibility of the customer to return the cylinder to the manufacturer. The compressed-air cylinder may be unscrewed and removed at any time without being emptied.

WARNING: Do not tamper with compressed-air cylinder and valve. It may cause injury!

The compressed-air cylinder is to be charged with a maximum filling pressure of 200 bar. For recharging the cylinder proceed as follows:

- either mount the compressed-air cylinder on a recharging bottle
- or mount the compressed-air cylinder on a hand pump
- or mount the compressed-air cylinder on a compressor

9 CLEANING AND CARE

In standard use the weapon operates maintenance-free and no oiling is required.

The only maintenance required is to slightly grease the O-ring in the loading port and the O-ring at the threaded adapter socket for the compressed-air cylinder with a special lubricant (acid-free silicone grease) every 1000 shots. This will increase the service life of the O-rings.

To clean the barrel shoot some felt pellets or cleaning strings through the barrel (available at your dealer).

10 GUARANTEE CLAUSES

If within two years from the day of purchase any cracks or breaks should occur on this weapon that are due to material failure we undertake repair the defective parts free of charge (except breakage or cracking of the stock or O-rings).

Guarantee will be given by either replacing or repairing the weapon or parts of it at our sole discretion. **The guarantee is only valid if the fully completed guarantee card is returned immediately after purchasing the weapon.**

No guarantee claims will be accepted by the Steyr-Sportwaffen GmbH if:

- a) the weapon has been damaged or destroyed by force majeure or environmental influences;
- b) in case of damages/defects having been caused by improper treatment, or handling or by lack of care.
- c) if the weapon has been repaired, machined or altered by any person or workshop other than an authorised Steyr Sportwaffen GmbH workshop.

Claims for damages and product liability:

No claims for direct or indirect damages will be accepted. Liability for material damages resulting from the product liability law, BGBL 99/1988, as well as any product liability claims that could be derived from other provisions are excluded.

The object of purchase warrants only that type of safety which may be expected in accordance with the homologation rules, service manual, manufacturer's instructions as well as any other pertinent information received.

The above clauses govern the full customer/manufacturer relationship with our company. Any additional claims, in particular for any kind of damages or losses caused by the weapon or its use, are excluded.

Guaranteed Steyr Sportwaffen accuracy:

Our barrels are made from high quality barrel steel and are produced according to the latest findings in barrel production technology. Our weapons are well known for their outstanding accuracy. However, the accuracy of a weapon depends on several factors; one of the most important factors is the ammunition used. Not every ammunition "fits" every barrel equally good.

If you follow our suggestion, we guarantee that you will achieve outstanding accuracy with your new product.

11 PARTS LIST LG 20

No.	Designation
1	Receiver LG 20
2	Sear catch link
3	Sear
4	Trigger carrier
5	Weight cam
6	Pointed Allen head screw M4
7	Valve complete
9	Cam
11	Cam pin
12	Loading Gate LG-10
13	Valve bolt combination
14	Bolt
15	Catchlink Lever
16	Catch lever
17	Stabilizer LG 20
18	Compressed air cylinder
19	O-Ring 8x1,65
20	Valve Cover
21	O-Ring 7x2
22	Pressure spring
23	Cylinder valve
24	Supporting ring (brass)
25	Cylinder valve compl.
27	O-Ring 2,9x1,8
28	O-Ring 24x2
30	pressure gauge
32	Trigger blade
33	Trigger axis
34	Allen set screw M3x5 DIN 913
35	Allen set screw M3x3 DIN 913
36	Countersunk screw M3x8 DIN 964

No.	Designation
37	Bellview washer 10
38	Trigger post assy
40	Allen set screw M6x8 DIN 553
41	Allen set screw
42	Draw spring
43	Draw spring
44	Torsion spring
45	Washer - STARLOCK
46	Parallel pin 3m6x24 DIN 6325
47	O-Ring 6x2
48	Pressure spring
49	Barrel cover
50	Cam screw
51	Allen set screw
52	cover for Stabilizer
53	Detent Ball 2mm III-ST-stainless
54	Parallel pin 1,5m6x7 DIN 6325
55	Pressure spring G.K. VD-085
56	Pressure spring D-117H-51
57	Pressure spring
58	Allen set screw M3x10 DIN 913
59	Parallel pin 2m6x8 DIN 6325
60	Parallel pin 2,5m6x20 DIN 6325
61	Lock
62	Allen set screw
63	Cheek piece rod
64	Cheek piece carrier
65	Allen head cap screw M5x16 DIN 912
66	Thread insert M4
67	Allen head cap screw M4x12 DIN 912
68	Stock LG 20
69	Rail

No.	Designation
70	Screw 4x20
71	Stock clamp socket
72	Cheek piece
73	Butt plate mount Anschütz
74	Butt rod
75	Butt plate mount
76	Clamp piece
77	Butt plate alu
78	Allen head cap screw M5x14 Din 912
79	Washer M5,3 A DIN 125
80	Allen head cap screw M5x12 DIN 912
81	Screw M3,5x45
82	Velocity Set screw
83	Allen set screw M5x5 DIN 913
84	Barrel Support
85	O-Ring 36x2
86	Allen set screw M5x6 DIN 913
87	Washer M5,3 DIN 9021
88	Allen head cap screw M5x16 DIN 912
89	Allen head cap screw M5x35 Din 912
90	Spring
91	O-Ring 3x1,5
92	O-Ring 1,5x1
93	Adjusting screw
94	Guiding sleeve
95	Cover
96	Screw M3,5
97	Regulator housing front LG-100
98	Regulator piston compl.
100	O-Ring 8,92x1,83
101	Bellview washer 12,5
102	Screen

No.	Designation
103	Regulator housing back
104	O-Ring 18x2
105	Barrel
106	O-Ring 5,28x1,78
107	Sight carrier
108	Plastic front sight
109	Front sight set screw
110	Front sight tunnel
111	Set washer 3,2
112	Screw M3x20
113	Clamp piece
114	Barrel cover weight
115	Cover
119	Adjusting cap (T-H)
120	Spring loaded pin
121	Adjusting cap (L-R)
122	Clamp piece
126	Screw M3,5
127	Rear sight mounting
128	Diopter washer
129	Pressure spring
130	Guide ring compressed air
131	Allen head cap screw 2,5m6x16
132	Pressure spring
133	Bushing sleeve
134	Parallel pin
135	Circlip 1,5
136	Allen head cap screw
137	Filling adapter
138	O-Ring 13x2
139	Hammer LG-20
141	Screw
142	Washer

Complete components:

- 1.1 Sight carrier complete
- 3.1 Receiver complete
- 3.2 Trigger blade complete
- 6.1 Stock complete
- 6.2 Cheek piece complete
- 6.3 Butt plate complete
- 6.4 Barrel support complete
- 8.1 Regulator complete
- 9.1 Compressed air cylinder complete
- 9.2 Cylinder valve complete
- 9.3 Filling adapter complete
- 9.4 Front sight tunnel complete
- 9.5 Rear sight complete

