

Attention:

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

Important measures when using arms:

All firearms are dangerous objects, they should be used and stored with utmost caution! Always treat an unloaded weapon as if it was 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 ensures safety.

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

Approved hearing and eye protection has to be used when shooting.

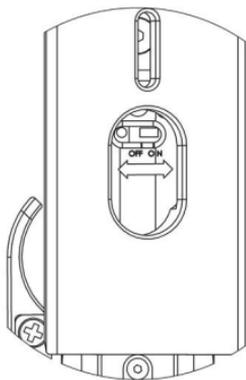
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1 TECHNICAL DATA

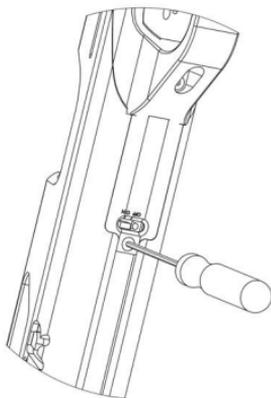
Caliber	4,5 mm (.177)
Overall height	170 mm (without sight)
Overall length	1.120 mm – 1.160 mm
Overall width	max. 58 mm
Sight length	750 mm – 890 mm Challenge 730 mm – 920 mm Bench Rest
Barrel length	450 mm
Total weight	appr. 4.400 g Challenge without additional weights appr. 5.000 g Bench Rest and sight heights
Maximum filling pressure ..	200 bar
Power max.	7,5 Joule
Electronic power supply	2 standard 1,5 V AAA alkaline cells

2 READINESS OF THE ELECTRONIC UNIT (CHALLENGE E)



Switch rifle to ON, the red LED at the ON/OFF-switch flashes once. If this is not the case, the batteries have to be changed.

The CHALLENGE E is equipped with two high-quality alkaline cells. If the weapon is not turned off after usage, the batteries loose voltage more quickly and need to be changed sooner.



To change the batteries, simply remove the battery cover on the bottom of the housing by loosening the screw (fig.). Positioning of the batteries as shown on the bottom of the battery case.

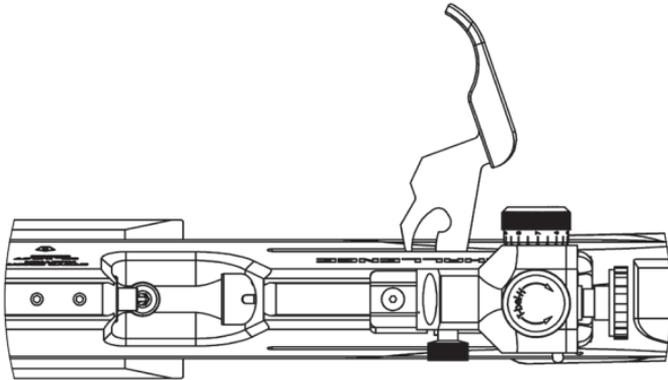
ATTENTION:

Only change batteries when electronic is switched off and weapon is unloaded.

Used batteries have to be disposed of in accordance with the laws of the respective country.

3 COCKING, LOADING AND SHOOTING

Pull back the cocking lever 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 cocking lever handle. The rifle is ready for firing.



NOTE: Weapons are also available with left-hand cocking lever!

4 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

1 click will change the point of impact by 0.3mm at 10 metres. Therefore 10 clicks will move the point of impact one complete ring on the target. The length of sight is individually adjustable by moving the rear sight and front sight tunnel. 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!

5 TRIGGER ADJUSTMENT

PLEASE NOTE: Before making any changes on the trigger, ensure that the weapon is unloaded!

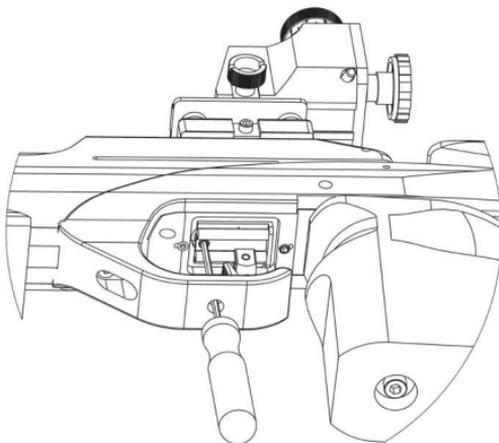
The trigger has the following individual adjustments:

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

5.1 First stage travel adjustment

Turning the screw clockwise
= shorter first stage travel

Turning the screw counter-clockwise
= longer first stage travel

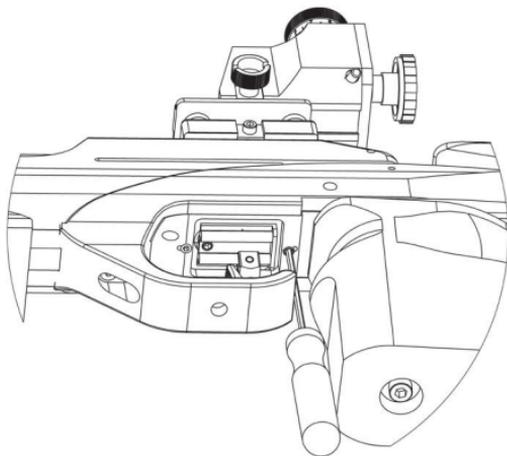


5.2 First stage weight and single stage trigger adjustment

Turning the screw clockwise
= higher first stage pressure

Turning the screw 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.

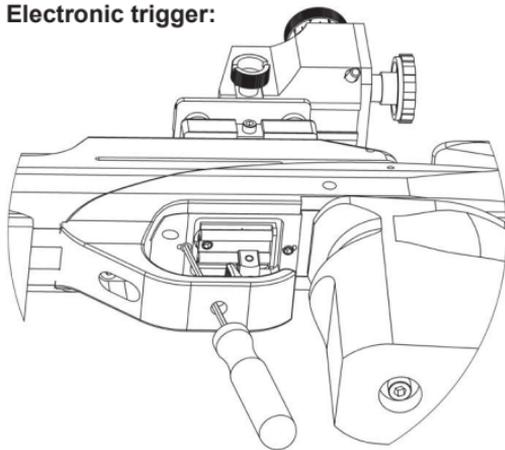


5.3 Second stage weight adjustment

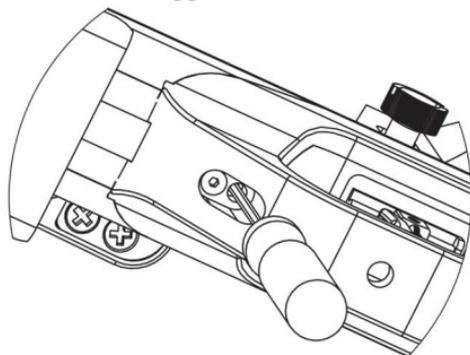
Turning the screw clockwise
= heavier second stage pull

Turning the screw anti-clockwise
= lighter second stage weight.

Electronic trigger:



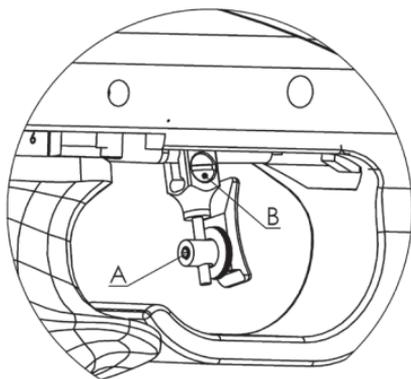
Mechanical trigger:



5.4 Trigger blade adjustment

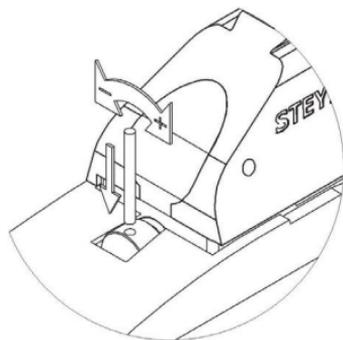
Loosen countersunk screw A, the trigger blade may be moved in height and rotated.

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



6 MUZZLE VELOCITY

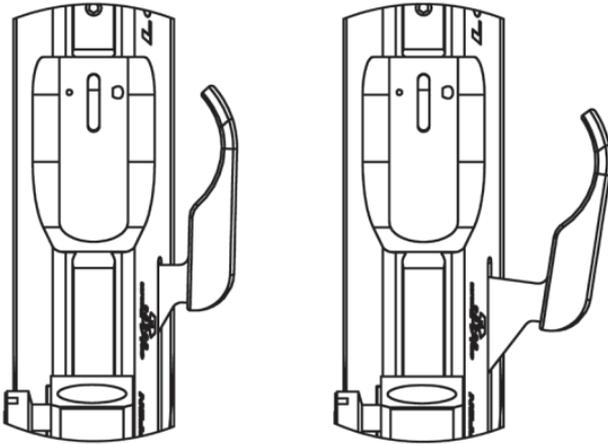
The muzzle velocity can be finely adjusted to any ammunition by turning the velocity screw as shown on the illustration.



7 DRY FIRING MECHANISM

a) Conventional dry firing (mechanical trigger)

The cocking lever handle 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 cocking lever only.



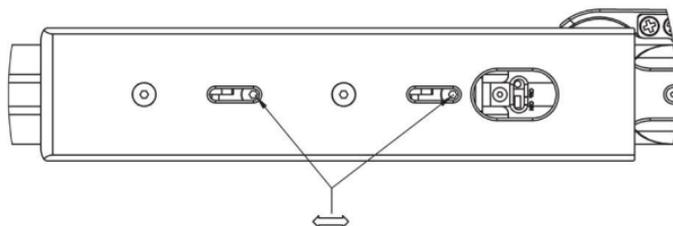
b) Dry firing with electronic trigger

Switch on the electronic unit. The system does not need to be cocked for dry firing. Make sure that the weapon is not loaded. Trigger can be tested for real shooting with the cocking lever fully closed.

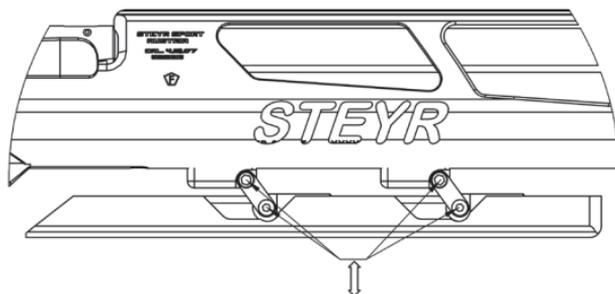
8 ADJUSTING THE STOCK

8.1 Adjusting front stock (not for Bench Rest version)

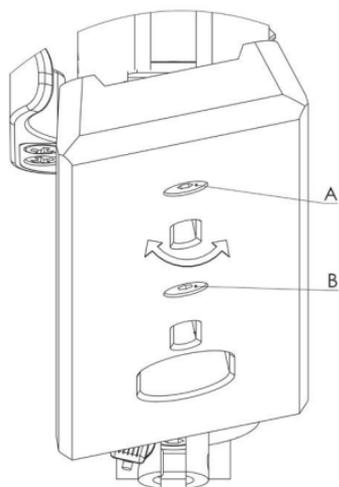
The front-stock can be moved in length by opening the screw.



The front-stock can be moved in height and can be angled by opening the four screws.

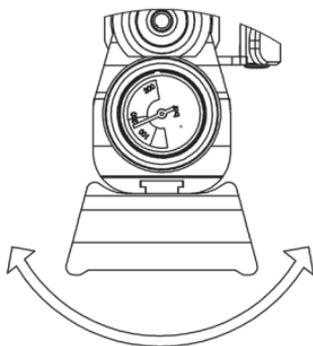


The front-stock can be angled by opening screw A + B.



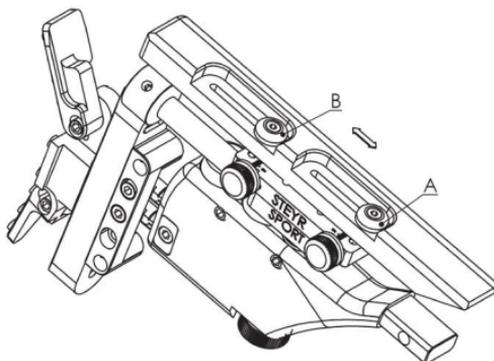
8.1.1 Adjusting front stock Bench Rest

The front stock of the BR-model can be tilted to rest perfectly on the bench.

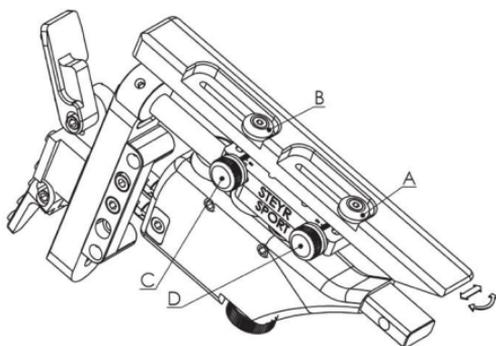


8.2 Cheek piece adjustment

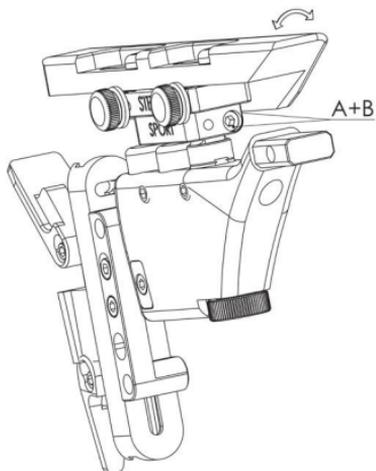
Screw A + B allows the cheek piece to be moved in length.



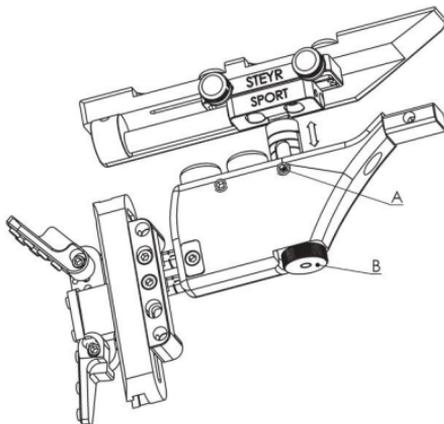
The cheek piece can be moved laterally and turned with the knurled screws C + D.



Loosening screw A + B, the cheek piece can be angled.

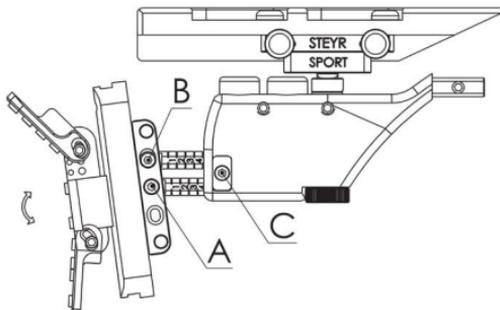


After loosening screw A the cheek piece can be adjusted in height with the knurled screw B.

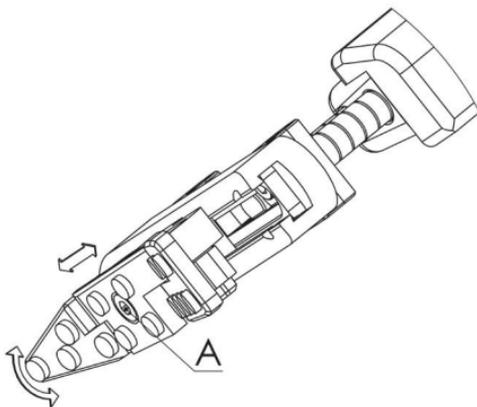


8.3 But plate adjustment

Screw C allows the butt plate to be moved in length. Loosening Screws A + B the but plate can be angled.

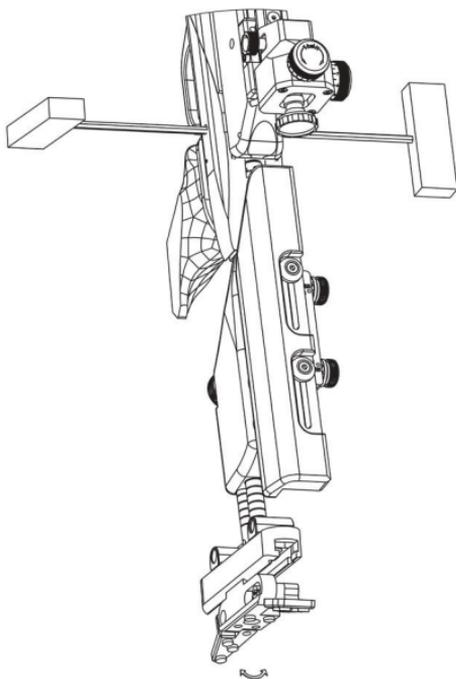


Loosening the screw A the but plate can be adjusted in height and can be angled. By shortening or completely removing the rubber inserts, precise adjustment of the butt plate can be achieved.



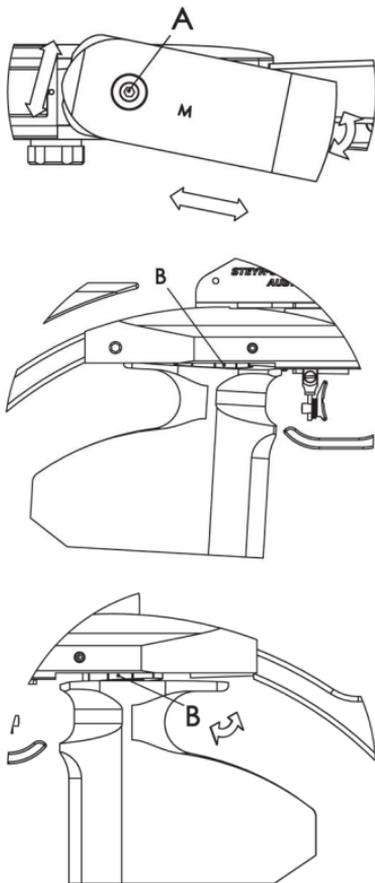
8.4 Pitch adjustment

By loosening screws, the angle of the rear stock can be adjusted.



9 ADJUSTING THE GRIP

The grip can be moved in length by loosening screw A, turned and moved laterally. Additionally with grip set disc B the grip can be adjusted in angle. The grip set disc is fixed with a screw which has to be loosened before the grip set disc can be adjusted.



10 REPLACING AND REFILLING THE COMPRESSED-AIR CYLINDER

Compressed-air cylinders must be emptied and safely disposed of 10 years after production date. The legal requirements and rules of the respective country must be adhered to.

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

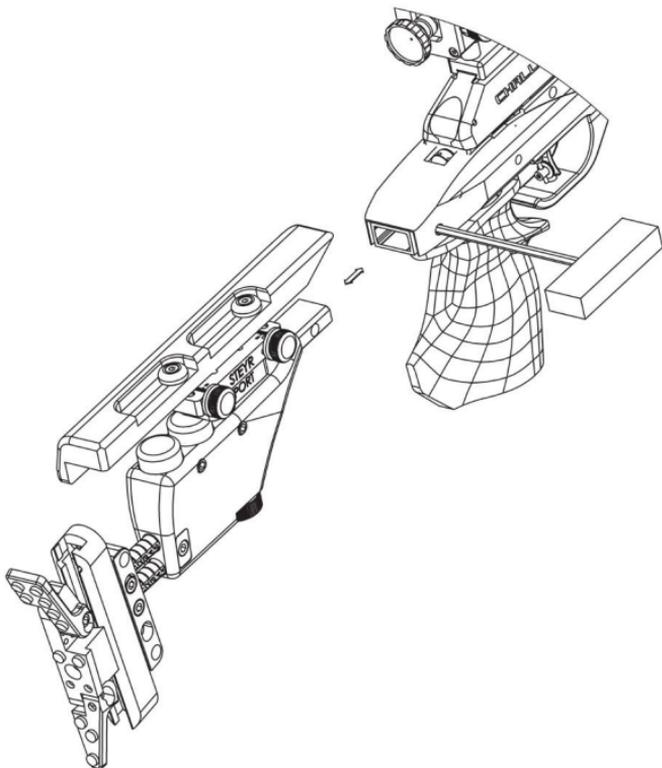
(See also the FAQ Site at www.steyr-sport.com)

11 ASSEMBLY AND DISASSEMBLY (for Connect versions only)

Knocked down to 2 parts, the CHALLENGE Connect can easily be transported.

Assembly:

Insert the rear stock up to the stop of the stock and lock with Allen key.



12 CLEANING AND CARE

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

To clean the barrel shoot some dry (not greased) felt pellets through the barrel (available at your dealer).

13 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 SPORT 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 SPORT 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, (PHG) 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 SPORT 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.

To check precision with a clamped weapon, it is advisable to clamp the weapon around the area of the massive housing.

14 PARTS LIST STEYR CHALLENGE E

Item	Designation
1	Housing Challenge
2	Weight cam
3	Catch rod
4	Trigger carrier
5	Trigger unit
6	Sear
7	Additional weight
8	Contact
9	Pressure spring
10	Pressure spring D-177
11	Slotted set screw
12	O-Ring
13	Clamping screw
14	Safety lever
15	Striker
16	Trigger blade
17	Trigger pin
18	Slotted set screw
19	Slotted set screw
20	Fillister head screw
21	Bellview washer
22	Trigger mount complete
23	Contact retainer
24	O-Ring
25	Pressure spring
26	Adapter
27	Rubber screw lock
28	Velocity screw
29	Draw spring
30	Slotted set screw
31	Torsion spring
32	O-Ring
33	Paralell pin
34	Paralell pin
35	Spring-type straight pin
36	STARLOCK disc
37	Slotted set screw
38	Washer

Item	Designation
39	Pressure spring
40	Valve complete
41	Rocker
42	Countersunk screw
43	Bolt
44	Bolt axle complete
45	Stabilizer
46	Catch Lever
47	Ball 2.0 mm
48	Drag ring
49	Pressure spring
50	Slotted set screw
51	O-Ring
52	Paralell pin
53	O-Ring
55	Sealing disc
56	Barrel 4.5 mm / .177 450 mm
57	Steel ball
58	Electronic board air rifle
59	Battery cover
60	Countersunk screw
61	Grip rod mount
62	Paralell pin
63	Grip locking rod
64	Paralell pin
65	Slotted set screw
66	Slotted set screw
67	Allen head cap screw
68	Ball bearing air pistol
69	STARLOCK disc
70	Washer
71	Allen head cap screw
74	Butt plate weight
75	Slotted set screw
76	Cheek piece carrier
77	Weight bar
78	Paralell pin
81	Slotted set screw
82	Stock carrier
83	Cheek piece screw
84	Disc spring

Item	Designation
85	Thumbscrew
86	Slotted set screw
87	Butt plate rod
88	Clamp piece Cheek piece
89	Butt plate retainer
90	Washer
91	Slotted set screw
92	Allen head cap screw
93	Butt plate
94	Sleeve
95	Slotted set screw
96	Stock weight
97	Cheek piece rod
98	Allen head cap screw
99	Washer
100	Allen head cap screw
101	Cheek piece plate
102	Parallel pin
103	Pressure spring
104	Ball
105	Sliding block
106	Thumbscrew
107	Washer
108	Allen head cap screw
109	Slotted set screw
110	Clamping piece
111	Cheek piece Challenge
114	Allen head cap screw
116	Countersunk screw
117	Bolt cover
119	Slotted set screw
120	Washer
121	Plastic front sight
122	Front sight set screw
123	Front sight tunnel
125	Srew
126	Clamp piece
127	Pin
130	Fore arm
131	Countersunk screw
132	Front arm carrier

Item	Designation
133	Base
134	Clamp piece
135	Washer
136	Pressure spring
137	Clamp piece
138	Allen head cap screw
153	O-Ring
156	Cocking lever
157	Cocking lever handle right
158	Countersunk screw
159	Grip Challenge
160	Pistol grip angle adjusting disc
161	Stock bracket
162	Clamp piece
164	Slotted set screw
166	Stock cover E
167	Barrel cover
171	Slotted set screw
172	Sight carrier Challenge
173	Allen head cap screw
177	O-Ring
178	O-Ring
179	Ball bearing
180	Cocking lever roller
181	Bolt axle
182	Roller
183	Countersunk screw
184	Countersunk screw
185	Pressure spring
186	Washer
187	Slotted set screw
189	Allen head cap screw
202	Washer

Subunits

3,1	Bolt complete
5,1	Trigger unit electronic complete
6,1	Pistol grip angle adjusting disc complete
7,1	Additional weight complete
7,5	Cheek piece weight complete

Item	Designation
7,6	Butt plate weight complete
8,1	Pressure reducing valve complete
9,1	Compressed air cylinder complete
17,1	Front sight tunnel complete
17,2	Front sight tunnel mounted
18,1	Sight riser complete
19,1	Diopter
22,1	Trigger blade complete
25,1	Cocking lever complete right
34,1	Barrel cover complete
34,2	Muzzle extension Challenge compl.
34,3	Barrel cover mounted
38,1	Filling Adapter complete
44	Bolt axle complete
55,1	Sealing disc complete
58,1	Electronic board complete
58,2	Electronic coil mounted
58,3	Hammer mounted
82,1	Stock complete
100,1	Cheek piece complete
130,1	Fore arm complete

15 PARTS LIST STEYR CHALLENGE

Item	Designation
1	Housing Challenge
2	Weight cam
3	Catch rod
4	Trigger carrier
5	Trigger unit
6	Sear
7	Additional weight
8	Slotted set screw
9	Pressure spring
10	Pressure spring
11	Slotted set screw
12	O-Ring
13	Clamping screw
14	Safety lever
15	Striker
16	Trigger blade
17	Trigger pin
18	Slotted set screw
19	Slotted set screw
20	Fillister head screw
21	Bellview washer
22	Trigger mount complete
23	Slotted set screw
24	O-Ring
25	Pressure spring
26	Adapter
27	Rubber screw lock
28	Velocity screw
29	Draw spring
30	Draw spring
31	Torsion spring
32	O-Ring
33	Paralell pin
34	Paralell pin
35	Spring-type straight pin
36	STARLOCK disc
37	Slotted set screw
38	Washer

Item	Designation
39	Pressure spring
40	Valve complete
42	Countersunk screw
43	Bolt
44	Bolt axle complete
45	Stabilizer
46	Catch Lever
47	Ball 2.0 mm
48	Drag ring
49	Pressure spring
50	Slotted set screw
51	O-Ring
52	Paralell pin
53	O-Ring
55	Sealing disc
56	Barrel 4.5 mm / .177 450 mm
57	Steel ball
59	Battery cover
60	Countersunk screw
61	Grip rod mount
62	Paralell pin
63	Grip locking rod
67	Allen head cap screw
71	Allen head cap screw
74	Butt plate weight
75	Slotted set screw
76	Cheek piece carrier
77	Weight bar
80	Slotted set screw
81	Slotted set screw
82	Stock carrier
83	Cheek piece screw
84	Disc spring
85	Thumbscrew
86	Slotted set screw
87	Butt plate rod
88	Clamp piece Cheek piece
89	Butt plate retainer
90	Washer
91	Slotted set screw
92	Allen head cap screw

Item	Designation
93	Butt plate
94	Sleeve
95	Slotted set screw
96	Stock weight
97	Cheek piece rod
98	Allen head cap screw
99	Washer
100	Allen head cap screw
101	Cheek piece plate
102	Parallel pin
103	Pressure spring
104	Ball
105	Sliding block
106	Thumbscrew
107	Washer
108	Allen head cap screw
109	Slotted set screw
110	Clamping piece
111	Cheek piece Challenge
114	Allen head cap screw
116	Countersunk screw
117	Bolt cover
119	Slotted set screw
120	Washer
121	Plastic front sight
122	Front sight set screw
123	Front sight tunnel
125	Srew
126	Clamp piece
127	Paralell pin
130	Fore arm
131	Countersunk screw
132	Front arm carrier
133	Base
134	Clamp piece
135	Washer
136	Pressure spring
137	Clamp piece
138	Clamp piece
153	O-Ring
156	Cocking lever

Item	Designation
157	Cocking lever handle right
158	Countersunk screw
159	Grip Challenge
160	Pistol grip angle adjusting disc
161	Stock bracket
162	Clamp piece
164	Slotted set screw
166	Stock cover E
167	Barrel cover
171	Slotted set screw
172	Sight carrier Challenge
173	Allen head cap screw
177	O-Ring
178	O-Ring
179	Ball bearing
180	Cocking lever roller
181	Bolt axle
182	Roller
183	Countersunk screw
187	Slotted set screw
189	Allen head cap screw
202	Washer

Subunits

3,1	Bolt complete
5,2	Trigger unit complete
6,1	Pistol grip angle adjusting disc complete
7,1	Additional weight complete
7,5	Cheek piece weight complete
7,6	Butt plate weight complete
8,1	Pressure reducing valve complete
9,1	Compressed air cylinder complete
17,1	Front sight tunnel complete
17,2	Front sight tunnel mounted
18,1	Sight riser complete
19,1	Front sight tunnel complete
22,1	Trigger blade complete
25,1	Cocking lever complete right
38,1	Filling Adapter complete
44	Bolt axle complete

Item	Designation
82,1	Stock complete
100,1	Cheek piece complete
130,1	Fore arm complete

16 PARTS LIST

STEYR CHALLENGE E BENCH REST

Item	Designation
1	Housing Challenge
2	Weight cam
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10	Pressure spring D-177
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27	Rubber screw lock
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33	Paralell pin
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65	Slotted set screw
66	Slotted set screw
67	Allen head cap screw
68	Ball bearing air pistol
69	STARLOCK disc
70	Washer
76	Cheek piece carrier
78	Paralell pin
81	Slotted set screw
82	Stock carrier
83	Cheek piece screw
84	Disc spring
85	Thumbscrew
86	Slotted set screw
87	Butt plate rod
88	Clamp piece Cheek piece

Item	Designation
89	Butt plate retainer
90	Washer
91	Slotted set screw
92	Allen head cap screw
93	Butt plate
94	Sleeve
95	Slotted set screw
96	Stock weight
97	Cheek piece rod
98	Allen head cap screw
99	Washer
100	Allen head cap screw
101	Cheek piece plate
102	Parallel pin
103	Pressure spring
104	Ball
105	Sliding block
106	Thumbscrew
107	Washer
108	Allen head cap screw
109	Slotted set screw
110	Clamping piece
111	Cheek piece Challenge
114	Allen head cap screw
116	Countersunk screw
117	Bolt cover
119	Slotted set screw
120	Washer
121	Plastic front sight
122	Front sight set screw
123	Front sight tunnel
125	Srew
126	Clamp piece
127	Pin
153	O-Ring
156	Cocking lever
157	Cocking lever handle right
158	Countersunk screw
159	Grip Challenge
160	Pistol grip angle adjusting disc
161	Stock bracket

Item	Designation
162	Clamp piece
164	Slotted set screw
166	Stock cover E
167	Barrel cover
171	Slotted set screw
172	Sight carrier Challenge
173	Allen head cap screw
177	O-Ring
178	O-Ring
179	Ball bearing
180	Cocking lever roller
181	Bolt axle
182	Roller
183	Countersunk screw
184	Countersunk screw
185	Pressure spring
186	Washer
187	Slotted set screw
189	Allen head cap screw
202	Washer
205	Sliding block
206	Washer
207	Allen head cap screw
208	Front stock Bench Rest

Subunits

3,1	Bolt complete
5,1	Trigger unit electronic complete
6,1	Pistol grip angle adjusting disc complete
7,1	Additional weight complete
8,1	Pressure reducing valve complete
9,1	Compressed air cylinder complete
17,1	Front sight tunnel complete
17,2	Front sight tunnel mounted
18,2	Sight riser Bench Rest
19,1	Diopter
22,1	Trigger blade complete
25,1	Cocking lever complete right
30,1	Front stock Bench Rest complete
34,1	Barrel cover complete

Item	Designation
34,2	Muzzle extension Challenge compl.
34,3	Barrel cover mounted
38,1	Filling Adapter complete
44	Bolt axle complete
55,1	Sealing disc complete
58,1	Electronic board complete
58,2	Electronic coil mounted
58,3	Hammer mounted
82,1	Stock complete
100,1	Cheek piece complete

17 PARTS LIST

STEYR CHALLENGE BENCH REST

Item	Designation
1	Housing Challenge
2	Weight cam
3	Catch rod
4	Trigger carrier
5	Trigger unit
6	Sear
7	Additional weight
8	Slotted set screw
9	Pressure spring
10	Pressure spring
11	Slotted set screw
12	O-Ring
13	Clamping screw
14	Safety lever
15	Striker
16	Trigger blade
17	Trigger pin
18	Slotted set screw
19	Slotted set screw
20	Fillister head screw
21	Bellview washer
22	Trigger mount complete
23	Slotted set screw
24	O-Ring
25	Pressure spring
26	Adapter
27	Rubber screw lock
28	Velocity screw
29	Draw spring
30	Draw spring
31	Torsion spring
32	O-Ring
33	Paralell pin
34	Paralell pin
35	Spring-type straight pin
36	STARLOCK disc
37	Slotted set screw
38	Washer

Item	Designation
39	Pressure spring
40	Valve complete
42	Countersunk screw
43	Bolt
44	Bolt axle complete
45	Stabilizer
46	Catch Lever
47	Ball 2.0 mm
48	Drag ring
49	Pressure spring
50	Slotted set screw
51	O-Ring
52	Paralell pin
53	O-Ring
55	Sealing disc
56	Barrel 4.5 mm / .177 450 mm
57	Steel ball
59	Battery cover
60	Countersunk screw
61	Grip rod mount
62	Paralell pin
63	Grip locking rod
67	Allen head cap screw
76	Cheek piece carrier
80	Slotted set screw
81	Slotted set screw
82	Stock carrier
83	Cheek piece screw
84	Disc spring
85	Thumbscrew
86	Slotted set screw
87	Butt plate rod
88	Clamp piece Cheek piece
89	Butt plate retainer
90	Washer
91	Slotted set screw
92	Allen head cap screw
93	Butt plate
94	Sleeve
95	Slotted set screw
96	Stock weight

Item	Designation
97	Cheek piece rod
98	Allen head cap screw
99	Washer
100	Allen head cap screw
101	Cheek piece plate
102	Parallel pin
103	Pressure spring
104	Ball
105	Sliding block
106	Thumbscrew
107	Washer
108	Allen head cap screw
109	Slotted set screw
110	Clamping piece
111	Cheek piece Challenge
114	Allen head cap screw
116	Countersunk screw
117	Bolt cover
119	Slotted set screw
120	Washer
121	Plastic front sight
122	Front sight set screw
123	Front sight tunnel
125	Srew
126	Clamp piece
127	Paralell pin
153	O-Ring
156	Cocking lever
157	Cocking lever handle right
158	Countersunk screw
159	Grip Challenge
160	Pistol grip angle adjusting disc
161	Stock bracket
162	Clamp piece
164	Slotted set screw
166	Stock cover E
167	Barrel cover
171	Slotted set screw
172	Sight carrier Challenge
173	Allen head cap screw
177	O-Ring

Item	Designation
178	O-Ring
179	Ball bearing
180	Cocking lever roller
181	Bolt axle
182	Roller
183	Countersunk screw
187	Slotted set screw
189	Allen head cap screw
202	Washer
205	Sliding block
206	Washer
207	Allen head cap screw
208	Front stock Bench Rest

Subunits

3,1	Bolt complete
5,2	Trigger unit complete
6,1	Pistol grip angle adjusting disc complete
7,1	Additional weight complete
8,1	Pressure reducing valve complete
9,1	Compressed air cylinder complete
17,1	Front sight tunnel complete
17,2	Front sight tunnel mounted
18,2	Sight riser Bench Rest
19,1	Front sight tunnel complete
22,1	Trigger blade complete
25,1	Cocking lever complete right
30,1	Front stock Bench Rest complete
44	Bolt axle complete
38,1	Filling Adapter complete
82,1	Stock complete
100,1	Cheek piece complete