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Mauser action

FN-BROWNING

sporting repeating rifle



FABRIQUE NATIONALE HERSTAL S.A. B-4400 HERSTAL
DIVISION *Nsports*

MAUSER ACTION BROWNING SPORTING REPEATING RIFLE

characteristics

The FN-Browning sporting repeating rifle is suitable for shooting all types of large game, from stag or wild boar of the European countries up to the largest beasts of tropical countries, such as buffalo, tiger, crocodile, elephant, etc. according to the size of the calibre.

THREE MODELS : The barrels of the FN-Browning sporting rifle have been designed both in weight and outline in keeping with the calibres made and their ballistic requirements. To ensure perfect security and comfortable shooting, a sporting rifle must have its optimum weight.

THE STOCK is made from selected French walnut ; with pistol grip, cheekpiece Monte Carlo comb. The grip and fore-end are finely checkered and the stocks for heavy calibres are fitted with a rubber recoil pad.



SPECIFICATIONS :

Models :	Light	Medium	Heavy
Calibres :	.243 Winchester	.270 Winchester .30'06 Springfield .308 Winchester 7 x 57 7 x 64 8 x 57 JS 8 x 60 S 9.3 x 62	7 mm Remington Magnum .300 H & H Magnum .300 Winchester Magnum .308 Norma Magnum .338 Winchester Magnum .375 H & H Magnum .404 Eley .458 Winchester Magnum 10.75 x 68
Average weights :	3 kg 050 (6 lb. 12 oz)	3 kg 100 (6 lb. 14 oz)	3 kg 750 (8 lb. 4 oz)
Barrel length :	560 mm. (22")	560 mm. (22")	610 mm. (24")
Magazine cover plate :	hinged	hinged	detachable on models .458 Winchester Magnum, .404 Eley and 10.75 x 68 hinged on the other models

The F.N. has the right to change, without warning, all or part of the specifications mentioned above.

IMPORTANT :

Should it need any further dismantling other than that mentioned above it would be preferable to have it done by a competent gunsmith.

to remove the bolt

THE REARSIGHT is adjustable for both elevation and windage, and is designed so as not to hinder the use of a telescope sight. At the factory the rifles are zeroed at a distance of 200 metres (220 yards) — 100 metres (110 yards), for the .458 Winchester Magnum — with a definite type of ammunition Frontsight, gold bead with detachable cover.

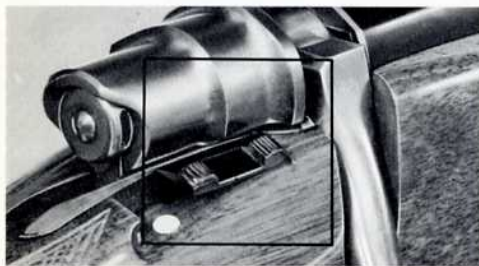
The mechanism of the F.N. Sporting rifle is of classic Mauser bolt action type, so well-known that it is quite unnecessary to describe it here. To its already proved qualities of sound design and mechanical strength, have been added important improvements.

The barrel, round of ample thickness, about 23½" long, made of chrome-vanadium steel. The perfection of the boring, rifling and adjustment, also a very careful regulating, make the F.N.-Browning rifle extremely accurate.

THE MODIFIED BOLT STOP greatly facilitates the complete withdrawal of the bolt for cleaning.

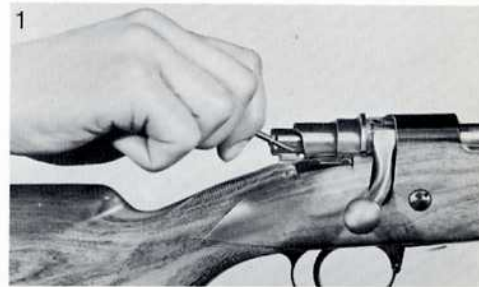
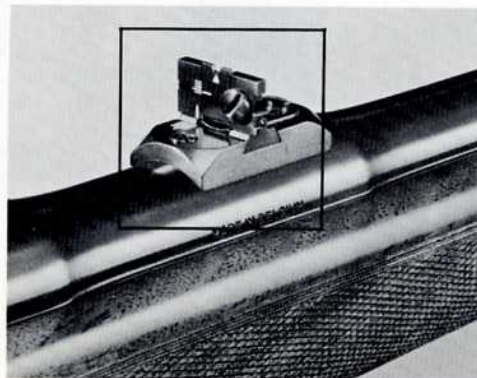
THE ACTION FRAME is drilled and tapped for the fitting of telescope sight mount bases. The fixing holes are drilled to the standardised distances.

First cock the rifle: this movement makes a hole appear at the heel of the cocking piece. Insert a pin or other suitable object into this hole (fig. 1). Then pull sideways the bolt stop and withdraw the bolt from the receiver (fig. 2). Hold the bolt with the left hand, and with the right hand, push back the bolt sleeve lock plunger, then unscrew, the bolt sleeve, disengaging all the firing pin mechanism

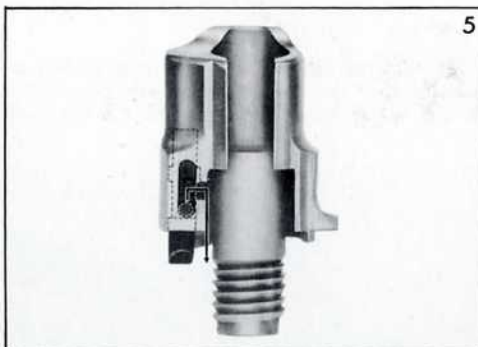
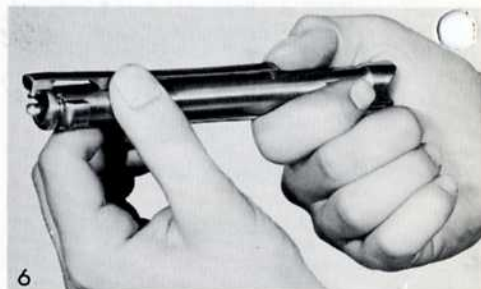
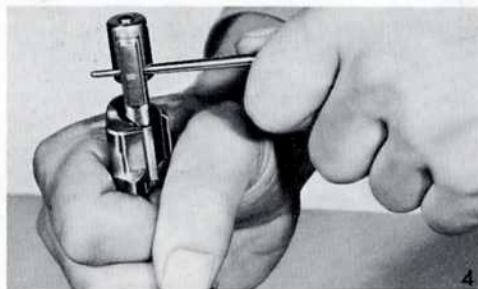
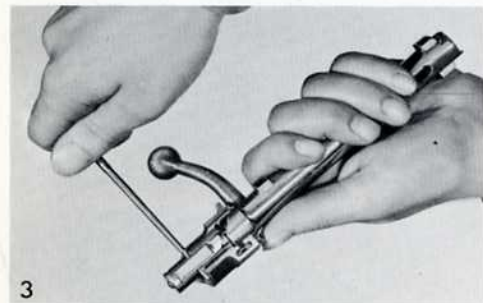


THE SIDE SILENT SAFETY has 3 positions. Forward, the rifle is ready for firing, indicated by a red disc. Backward the rifle is on safe, the bolt and trigger are locked. In the intermediate position, only the trigger is locked, the bolt can be withdrawn to change the cartridge in the chamber.

THE TRIGGER is adjusted at the factory to ensure the best possible pull: smooth, short, crisp. The weight of the pull is approx. 1 kg. 500, (3¾ lb).



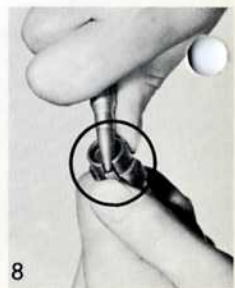
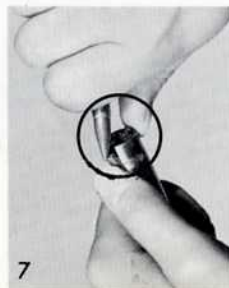
(fig. 3). Hold the firing pin mechanism vertically, putting the point of the firing pin on a piece of hard wood (fig. 4). Press the bolt sleeve downwards in order to disengage the heel of the cocking piece from its groove. Give the cocking piece one quarter of a turn in a clockwise direction which allows it to disengage the 3 ribs of the tail end of the firing pin. Slowly release the pressure exerted on the bolt sleeve to avoid a sudden releasing of the firing pin spring.



TO DISMANTLE THE BOLT SLEEVE LOCK PLUNGER. Push back the bolt sleeve bolt plunger so as to bring its tenon into the notch of the wall of the bolt sleeve. Disengage the tenon from this notch and remove the bolt sleeve lock plunger and its spring (fig. 5).

TO DISMANTLE THE EXTRACTOR (Models «Light» and «Medium»). Hold the bolt handle with the right hand, with the left hand turn the extractor around the bolt until its bolt sleeve comes out from the semi-circular groove cut in the head of the bolt in which it slides. Then push the extractor forwards and disengage it (fig. 6).

TO DISMANTLE THE EXTRACTOR (Models «Heavy»): Hold the lock with the left hand, the thumb covering the extractor. With the right hand push back the tip of the extractor with the point of cartridge foot instance, towards the outside of the lock. The extractor is disengaging from his casing and basculates easily. Take the push-rod and the spring out of its casing, being carefull not to loose it.



reassemble

For **light and medium weight models**, replace the extractor on the lock while tightening the nut so that the studs engage into the ribs of the extractor. Replace the push-rod on the tumbler guide.

For **heavy weight models**, grip the lock with your left hand while pointing the extractor casing toward the thumb. Install the spring equipped with the push-rod into its casing. Then introduce the extractor into its casing while securing its rear section firmly with your thumb. With right-hand thumb resting on the stud of the lock, use the tip of a cartridge to push against the centre of the extractor rear section while having the latter pivot by approximately 45° so as to permit its catch to slide underneath the push-rod of the spring (fig. 8).

For all models, insert the tail-end of the pin into the guide and bear fully against the latter. Install the tumbler on the tail-end of the pin and have it pivot counter-clockwise by one quarter turn. Secure the guide firmly on the lock, replace the lock into the breech case, close and withdraw the cotter.

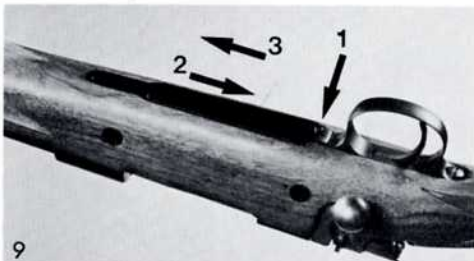
Concerning calibre .375 H & H Magnum, .458 W.M., .404 Kley and 10.75 x 68 arms :

Unloading by removing the detachable magazine back cover

Take up the arm with the magazine back cover pointing towards you.

Use your right-hand thumb to push the button (1, fig. 9) while, simultaneously, exerting pressure with your left-hand thumb on the magazine back cover to have it slide toward the trigger-guard (2, fig. 9). The magazine back cover will then disengage under the pressure produced by the feeder spring.

Turn the arm over and catch the cartridges.

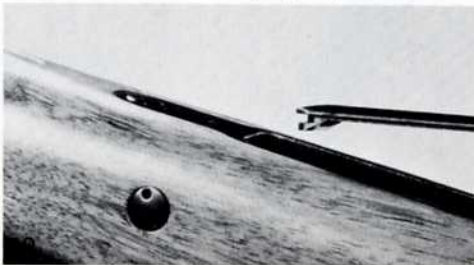


Reinstalling the detachable magazine back cover

Take up the arm with the magazine back cover pointing towards you.

Apply the magazine back cover and make sure that the front edge of the trigger-guard does engage between the lips of the cover (fig. 10).

Use both thumbs to exert pressure on the rear section of the magazine back cover while having it slide forwards (3, fig. 9). The button will rise automatically and lock the magazine back cover in place as soon as the latter has recovered its proper position.



maintenance

After each shooting session, the barrel should be thoroughly cleaned.

Legia Spray is particularly adequate for this operation. Spray the barrel inside and then run a cleaning brush through. Dry with a clean piece of special cloth. Spray again and the barrel will be protected until the next shooting session. When cleaning, always make sure the cleaning brush is introduced through the chamber.

For other parts of the pistol, use Legia Spray on each part and dry with a soft, dry and clean cloth.

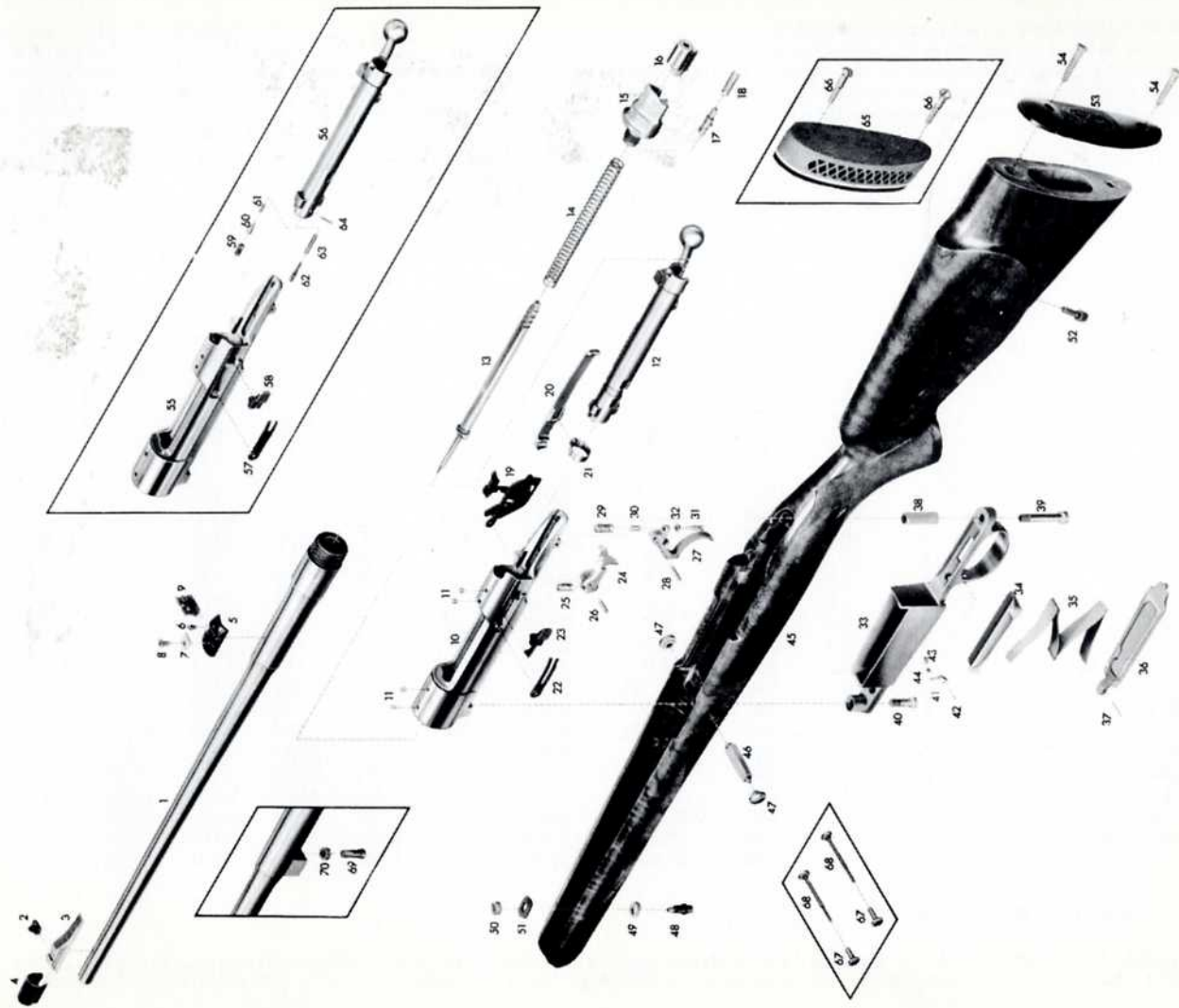
LEGIA SPRAY



list of component parts

1	Barrel	
2	Foresight bead	
3	Ramp	
4	Foresight hood	
5	Rearsight base	
6	Rearsight base-screw	
7	Locking plate	
8	Locking plate screw	
9	Rearsight	
10	Receiver	
11	Obturation screws	
12	Stripped bolt	
13	Firing pin	
14	Firing pin spring	
15	Bolt sleeve and firing pin guide	
16	Cocking piece	
17	Bolt sleeve lock plunger	
18	Bolt sleeve lock plunger spring	
19	Safety	
20	Extractor	
21	Extractor ring	
22	Floor plate catch spring assembly	
23	Ejector and bolt stop assembly	
24	Sear	
25	Sear spring	
26	Sear pin	
27	Trigger with screws, nut and spring guide	
28	Trigger pin	
29	Trigger spring	
30	Trigger spring guide	
31	Spring guide regulating screw	
32	Regulating screw nut	
33	Trigger guard	
34	Magazine follower	
35	Magazine follower spring	
36	Hinged floor plate	
37	Hinged floor plate pivot	
38	Rear guard bushing	
39	Rear trigger guard screw	
40	Front trigger guard screw	
41	Floor plate catch	
42	Pin for dito	
43	Floor plate catch spring	
44	Floor plate catch plunger	
45	Stock	
46	Recoil lug	
47	Recoil lug nuts	
48	Front sling eyelet	
49	Front swivel base washer	
50	Front swivel base nut	
51	Front swivel base plate	
52	Rear sling eyelet	
53	Butt plate	
54	Butt plate screws	
	Special parts for "HEAVY" Model	
55	Receiver	
56	Stripped bolt prooved	
57	Floor plate catch spring assembly	
58	Bolt stop	
59	Extractor	
60	Extractor plunger	
61	Extractor spring	
62	Ejector	
63	Ejector spring	
64	Ejector pin	
65	Anti recoil pad with screws	
66	Butt plate screws	
67	Stock screw bushing	
68	Stock screw bushing nut	
69	Screw lug	
70	Front swivel base washer	

REMARK. When ordering spare parts, it is necessary to specify the reference number of the required part.



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The FN-Browning Sporting Rifle Mauser action is normally supplied in the following calibres: 243 Winchester; 270 Winchester; .30/06 Springfield; .308 Winchester; 7 x 57; 7 x 64; 8 x 57 JS; 8 x 60 S; 9,3 x 62; 7 mm Remington Magnum; .300 H & H Magnum; .300 Winchester Magnum; .308 Norma Magnum; .338 Winchester Magnum; .375 H & H Magnum; .404 Eley (10,75 x 73); .458 Winchester Magnum; 10,75 x 68

The characteristics of the cartridges mentioned in the following table are for guidance of the customer, to enable him to choose the calibre best suited to the type of game he intends to hunt, it being understood that for each individual combination of gun + ammunition the actual velocities and remaining kinetic energies can vary considerably from the figure recorded.

On the other hand, the figures given for mid-range trajectories can be considered as correct.

CALIBRES	Number of grooves	Twist right (inches)	Weight of bullet grains	Type of bullet	Muzzle velocity ft./sec.	Velocity at 100 y. ft./sec.	Velocity at 200 y. ft./sec.	Muzzle energy ft. lbs	Energy at 100 y. ft. lbs	Energy at 200 y. ft. lbs	Mid-range trajectory of 100 y. (inches)	Mid-range trajectory of 200 y. (inches)	Number of cartridges in the magazine
.243 Winchester	6	10	100	P.S.P.	3,071	3,795	2,529	2,091	1,737	1,418	.5	2.2	4
.270 Winchester	4	10	100	P.S.P.	3,481	3,084	2,693	2,692	2,113	1,606	.4	1.8	5
.30/06 Springfield	4	10	150	S.T.	2,972	2,667	2,395	2,945	2,381	1,881	.6	2.4	5
.308 Winchester	4	12	150	S.P.	2,861	2,565	2,295	2,728	2,193	1,729	.6	2.6	4
7 x 57	4	8.7	172	S.P.	2,437	2,103	1,837	2,280	1,700	1,302	.4	3.3	5
7 x 64	4	8.7	155	V.S.	2,917	2,575	2,513	2,916	2,272	1,830	.2	2.0	5
8 x 57 JS	4	9.4	226	S.P.	2,224	1,935	1,676	2,489	1,881	1,425	.7	4.6	5
8 x 60 S	4	9.4	226	S.P.	2,342	2,004	1,725	2,765	2,004	1,520	.5	4.5	5
9,3 x 62	6	14.2	285	S.P.	2,234	1,942	1,686	3,163	2,381	1,795	.7	4.7	4
7 mm Remington Magnum	4	10	150	PP, CL	3,261	2,979	2,690	3,351	2,772	2,265	.4	2.0	3
.300 H & H Magnum	6	10	180	S.T.	2,923	2,674	2,454	3,416	2,837	2,316	.6	2.4	3
.300 Winchester Magnum	6	10	180	PP, CL	3,071	2,838	2,641	3,770	3,242	2,750	.5	2.1	3
.308 Norma Magnum	6	10	180	D.C.	3,100	2,887	2,657	3,843	3,307	2,786	.5	2.0	3
.338 Winchester Magnum	6	12	250	S.T.	2,700	2,428	2,165	4,053	3,242	2,555	.7	3.0	3
.375 H & H Magnum	6	14.2	300	S.T.	2,552	2,280	2,027	4,335	3,438	2,685	.7	3.3	3
.404 Eley	6	16.5	400	V.R. or T.R.	2,329	1,985	1,768	4,862	3,531	2,793	.4	3.7	3
.458 Winchester Magnum	6	16.6	510	S.P.	2,132	1,837	1,581	5,146	3,771	2,764	1.1	5.1	3
10.75 x 68	6	16.5	345	V.R. or T.R.	2,198	1,922	1,719	3,712	2,844	2,279	.5	4.1	4

Ballistic data given as indication only.

P = Pointed ; S.P. = Soft point ; S.T. = Silver tip ; P.P. = Power point ; C.L. = Core lock ; V.S. = Vollmantel spitz = Full patch bullet, pointed ; D.C. = Dual core ; V.R. = Vollmantel Rundkopf = Full Patch bullet, round-nosed ; T.R. = Teilmantel Rundkopf = Soft-nosed bullet, round-nosed.