



BROWNING

Automatic Machine Rifle

TYPE D

with detachable barrel

Fabrique Nationale
d'Armes de Guerre
Société Anonyme
HERSTAL-LEZ-LIÈGE
(B E L G I U M)



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INTRODUCTION

The Browning automatic rifle was originally designed by John Browning in 1917, to meet the requirements of the American Army during the 1914-1918 war. For this purpose it was mass-produced by the Colt Company in America, and used by the U. S. Armed Forces during the first world war and also in the second.

John M. Browning had for several years worked in Liège in close collaboration with Fabrique Nationale d'Armes de Guerre, and during this time had perfected many inventions. It was, therefore, natural that the Browning automatic machine rifle patents should be entrusted to them for manufacture.

During the period between the two wars F. N. introduced several modifications and improvements. These culminated in the "Type 30", made to the requirements of the Belgian Government, and incorporated a gas regulator and a slowing-up device to be used to reduce the rate of fire, when required.

Fabrique Nationale have now put on the market the present Model "D", which embodies the experience gained during the last war, and the technical advantages of modern steels and methods of production. The main features of the original design are still maintained, but in the new model the barrel has been made removable, and it is possible to take out the breech-block mechanism without complete stripping.



Its light weight, accuracy and speed into action, combined with its robustness and simplicity, make the Browning automatic machine rifle suitable for use in the field both as an automatic rifle and as a light machine gun.



Plate I.



F. N. Browning automatic machine rifle type D with detachable barrel.



Plate II.



F. N. Browning automatic machine rifle type D with detachable barrel.
Firing position.

GENERAL CHARACTERISTICS

Method of operation. — The breech mechanism is automatically opened by means of gas operating through the gas cylinder on a piston. The closing of the breech is done by means of the usual return springs. During the actual firing of the cartridge the breech-block is positively locked, but remains held in the rear position after the opening operation has been performed.

Detachable barrel. — This is held in the receiver by a differential nut, which takes up any play or clearance between the barrel and receiver. The barrel is air-cooled by flanges, and is equipped with a handle for transport or dismounting of the barrel.

Method of feed. — The method of feed is by means of a 20-round magazine positioned in the underside of the receiver. This position reduces visibility to an enemy, and magazines can be changed without the firer betraying his position.

Rates of fire. — The normal rate of fire is 600 rounds per minute, but a specially designed slowing-up device, which is incorporated in the trigger guard, enables this rate to be reduced to 350 rounds per minute.

Stripping. — Stripping is possible in two stages. In the first place the breech-block can be quickly removed by the firer, whilst still in the firing position, for the purpose of replacing a firing pin or extractor. Complete stripping of the mechanism can be done in the same position by hinging the butt downwards to form a support, leaving both hands free to handle the mechanism.

Safety. — Every care has been taken to ensure safety under all conditions. In addition to the normal mechanical safeties, the breech-block is also positively locked at the moment of firing, which cannot occur prematurely. The mechanism being held in the rear position



after a round has been fired enables the chamber to cool more quickly, and there is no danger from a cartridge being left in a hot barrel.

Suppleness. — The Browning automatic rifle has a remarkable suppleness of action because the opening of the bolt is progressive by means of cams. The extraction of the case does not occur by a straight pull but by soft primary extraction. This avoids hardship of the mechanism and allows a good functioning without cleaning nor oiling event with ammunition which are not perfect. It is one of the reasons why the gun is able to function without breakages or stoppages of any kind.

Gas regulator. — The amount of gas taken from the barrel into the gas cylinder is controlled by a regulator, based on the exhaust type, that is to say the regulator allows sufficient gas to enter the gas cylinder to operate the mechanism and the surplus is vented outside. By this means, it is possible to regulate the functioning of the gun to suit atmospheric conditions or variation in types of ammunition. The fouling of the mechanism is also reduced to a minimum, and the flow of escaping gas ensures constant clearance of gas fouling.

Holding open device. — When the magazine is empty a special device keeps the mechanism open. One has just to drop the empty magazine and put a full one in place: firing may be resumed at once without cocking the gun.

Buffering. — The final rearward movement of the mechanism is damped by a specially designed buffer, housed in the butt, which absorbs the final shock of recoil, and thereby reduces wear on the mechanism and fatigue of the firer.

Ejection. — Ejection is to the right and slightly forward.

Weatherproofness. — All openings have been provided

with covers to ensure maximum protection against dust and mud.

Portability. — The weight and balance of the weapon are such that it can be carried quite easily by the carrying handle.

Calibre. — The gun can be produced to fire any type of infantry rimless ammunition.

Accessories. — A bipod is provided for stability during firing. This is also the purpose of the shoulder strap fitted on the butt. If required, a light tripod can be provided, so that the gun may be used in a heavier machine gun rôle.



SUMMARY DESCRIPTION

Principal parts of the F. N. Browning automatic rifle type D:

1. Barrel group: barrel, foresight, regulator and handle;
2. Receiver group: receiver, gas cylinder and bipod;
3. Mechanism;
4. Trigger guard with slowing-up device;
5. Butt with buffer and return springs;
6. Magazine.

1. BARREL GROUP

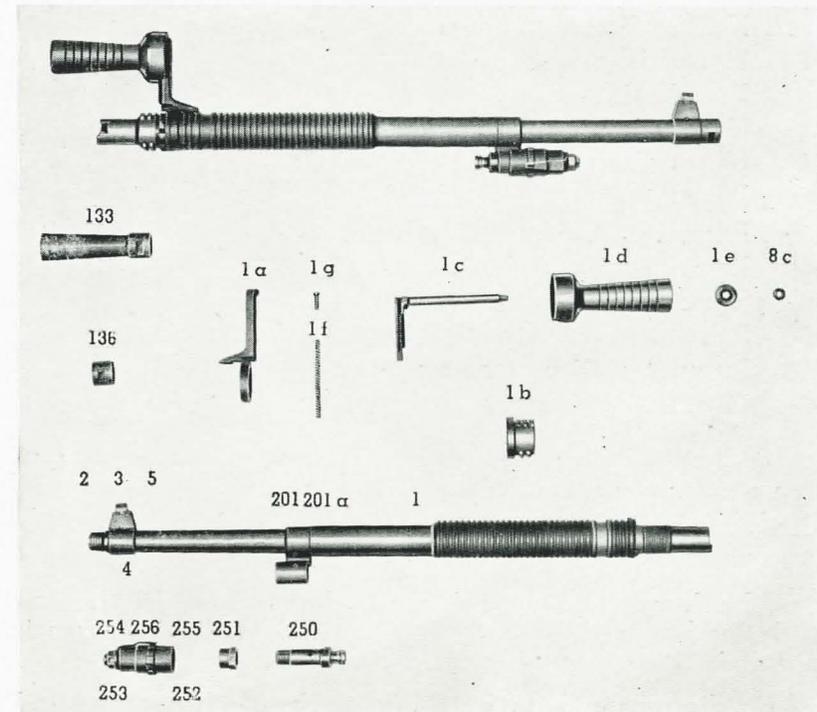


Plate III.

List of component parts

- 1 Barrel.
- 1a Barrel handle support.
- 1b Barrel locking nut.
- 1c Barrel handle (steel) inner.
- 1d Barrel handle (wood) outer.
- 1e Barrel handle washer.
- 1f Barrel handle coil spring.
- 1g Barrel handle coilspring plunger.
- 2 Foresight blade.
- 3 Foresight bed.



- 4 Foresight bed key.
- 5 Foresight bed pin.
- 8c Nut for barrel handle.
- 133 Flash hider.
- 136 Muzzle ring.
- 201 Gas cylinder tube bracket.
- 201a Gas cylinder tube bracket pin.
- 250 Regulator.
- 251 Regulator fixing nut.
- 252 Regulator operating screw.
- 253 Regulator operating screw head.
- 254 Regulator operating screw assembling pin.
- 255 Regulator sliding shroud.
- 256 Regulator sliding shroud spring.

The barrel (1) is provided at the front by a foresight bed (3) which is supporting the foresight blade (2). It has also a gas cylinder bracket (201) which is a housing for the regulator (250-256).

The lower wall of the barrel has a hole in the gas cylinder bracket. It is through this hole that the gas is blown into the gas cylinder.

At the rear end the barrel has a handle (1a) connected with the locking nut (1b) which has an external and internal differential thread. The internal thread engages the barrel, the external thread engages the receiver.

By swinging the handle, it is thus possible, for the differential thread, to tighten the barrel on the receiver so as to avoid any clearance which is automatically absorbed.

By pulling the handle, in the same way as if one wished to separate it from the barrel, it is loosened from the notch in the locking nut and the handle is no more connected to the nut and can swing freely. It may then be used as a handle to carry the gun.

The muzzle of the barrel has a thread which may be used to screw the muzzle ring (136) the flash hider (133) or the blank firing device (503).

The rear of the barrel has a recess for the extractor (45) and a ramp guiding the cartridges in the chamber.

The barrel has flanges to increase air cooling.

The regulator is of the exhaust type. In the unscrewed position it enables most of the gas to escape outside while only a small part of it is allowed to penetrate into the gas cylinder. In the screwed position, most of the gas goes straight in the gas cylinder.

This has the advantage to allow just the quantity of gas required to operate the gun to come into the mechanism.



2. RECEIVER GROUP
(PLATES IV AND V)

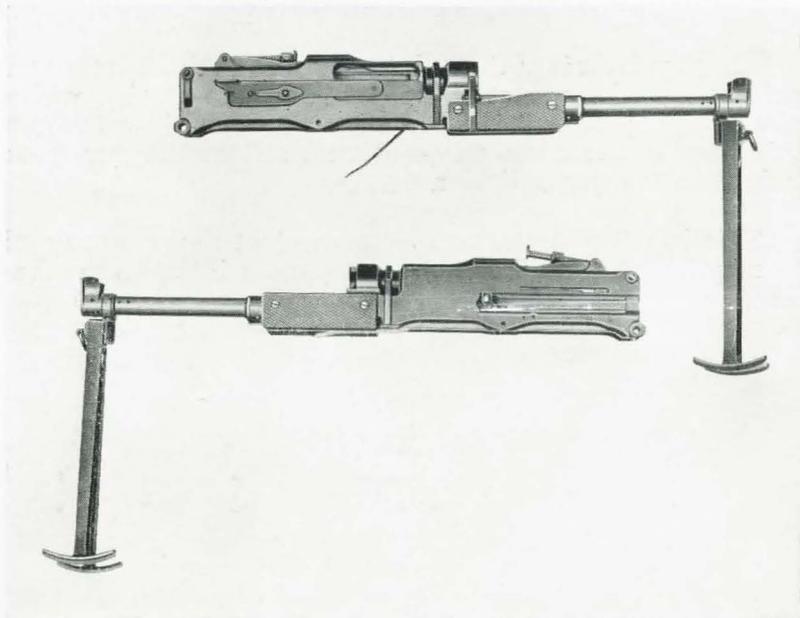


Plate IV.

List of component parts

- 8 Receiver.
- 8a Locking nut catch lever.
- 8e Axis pin plunger.
- 8f Axis pin plunger coil spring.
- 8g Removable axis plunger coil spring screw.
- 8i Backsight leaf.
- STA1 Backsight spring.
- STA2 Backsight slide catch.
- STA3 Backsight slide.
- STA4 Backsight slide catch spring.
- STA21 Backsight leaf pin.
- 8n Backsight base.

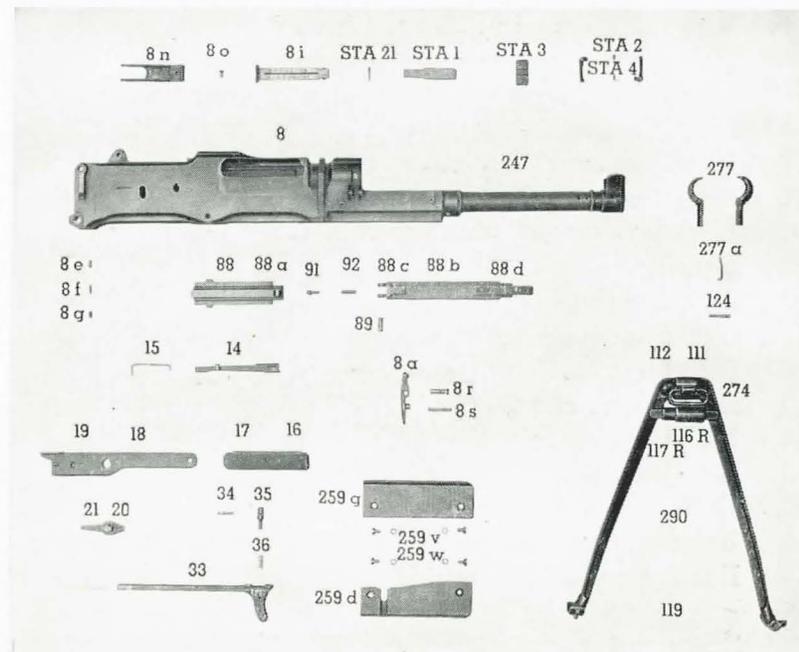


Plate V.

- 8o Backsight base rivet.
- 8r Locking nut catch lever axis pin.
- 8s Locking nut catch lever axis pin spring.
- 14 Bolt guide.
- 15 Bolt guide spring.
- 16 Ejection opening cover.
- 17 Ejection opening cover stud.
- 18 Ejection opening cover lever.
- 19 Ejection opening cover safety stud.
- 20 Ejection opening cover fixing stud.
- 21 Ejection opening cover stud retainer.
- 33 Cocking handle.
- 34 Cocking handle plunger pin.
- 35 Cocking handle plunger.
- 36 Cocking handle plunger spring.
- 88 Magazine opening cover.



- 88a Magazine opening cover hinge.
- 88b Magazine opening cover support.
- 88c Magazine opening cover support spring box.
- 88d Magazine opening cover support stop spring.
- 89 Magazine opening cover axis pin.
- 91 Magazine opening cover stop pin.
- 92 Magazine opening cover stop pin spring.
- 111 Bipod pivot.
- 112 Bipod assembly block.
- 116R Bipod legs external plug.
- 117R Bipod legs internal plug.
- 119 Bipod legs shoe.
- 124 Bipod fixing pin.
- 247 Gas cylinder.
- 259D Handguard plate right.
- 259G Handguard plate left.
- 259v Handguard plate screws.
- 259w Handguard plate screws lock washers.
- 274 Sling swivel.
- 275 Sling swivel pin.
- 277 Bipod head.
- 277a Bipod head spring.
- 290 Bipod legs.

The receiver (8) is a housing for the whole mechanism. The backsight is mounted on the receiver. In the left side plate is a groove guiding the cocking handle (33). Above this groove is a push button (placed upon the bolt guide) (14). This button loosens the bolt for quick dismounting. The left side plate has also the trigger guard retaining pin (52) as well as the marks referring to the kind of firing required (M for automatic firing, R for automatic firing at slowed rate, S for safety).

On the right side plate, is the ejection opening with its cover (16). (This cover opens automatically when cocking the gun or firing.) The bottom of the receiver has an opening for the magazine (127) [during transport this opening is closed by a cover (88)] and an opening for the

trigger guard. At the rear the butt support (8h) is fastened by means of a removable axis (8d) and an axis screw (8b).

Inside the receiver are two grooves guiding the slide (205) an opening for the bolt guide (14) and its spring (15), the recess for the breech-block (41) and the two guides for the bolt (11-12).

The front of receiver has an interrupted thread to fasten the barrel and a recess for the gas cylinder (247) to which the forearm plates (259G, 259D) and the magazine opening cover (88) are fastened.

The gas cylinder (247) is fastened to the receiver. Three openings for exhaust of the gun are bored at the front of the gas cylinder. The gas cylinder is open at the front side for the regulator (250). At the upper front part, the gas cylinder has two wings to support and guide the barrel and make it easy to locate it.

The bipod is fastened at the fore-end of the gas cylinder by means of the bipod assembly block (112) pinned on the bipod head (277). It has two legs (290) at the ends of which are the bipod shoes (119). The sling swivel (274) is fastened on the bipod head.



3. MECHANISM

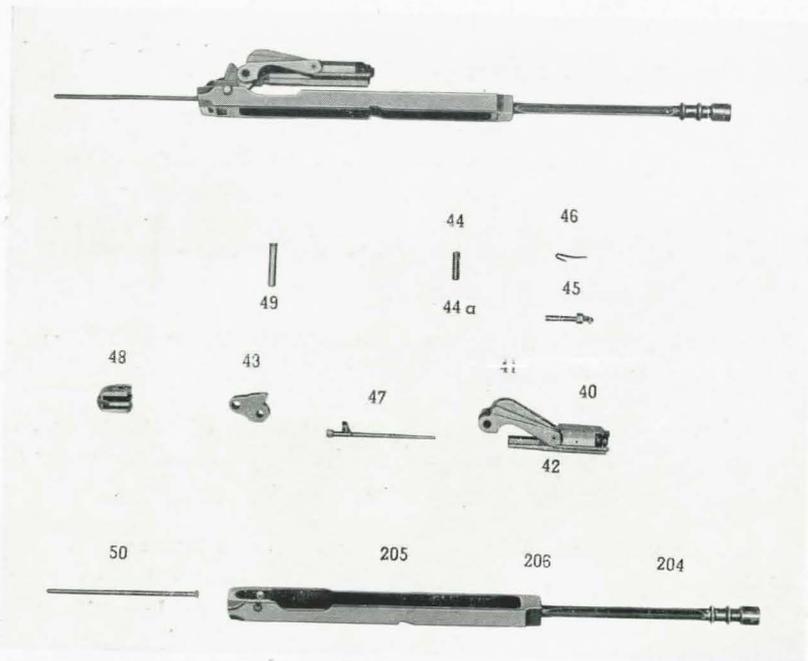


Plate VI.

List of component parts

- 40 Bolt.
- 41 Breech block.
- 42 Bolt and breech block assembly axis.
- 43 Link.
- 44 Breech block and link assembly pin.
- 44a Breech block and link assembly pin spring.
- 45 Extractor.
- 46 Extractor spring.
- 47 Firing pin.
- 48 Hammer.
- 49 Link and slide assembly pin.

- 50 Return springs rod.
- 204 Gas piston.
- 205 Slide.
- 206 Gas piston firing pin.

The receiver contains the bolt (40) with breech block (41). The breech block is connected to the slide (205) by means of a link (43).

The bolt to which the extractor (45) is fastened contains the firing pin (47).

Percussion occurs through action of the hammer (48) located at the rear of the slide (205).

The whole mechanism is connected with the recoil springs (97E, 97I) located in the butt stock (93) through the recoil springs rod (50).

The lower face of the slide has two notches, one of which being used as a housing for the two sears (213, 216) of the trigger guard while the other one acts as a safety.

In the middle on the lower face of the slide are two notches in which the slide stop (238) engages when the magazine is empty.

The piston (204) is screwed and pinned at the front end of the slide.



4. TRIGGER GUARD AND SLOWING UP DEVICE

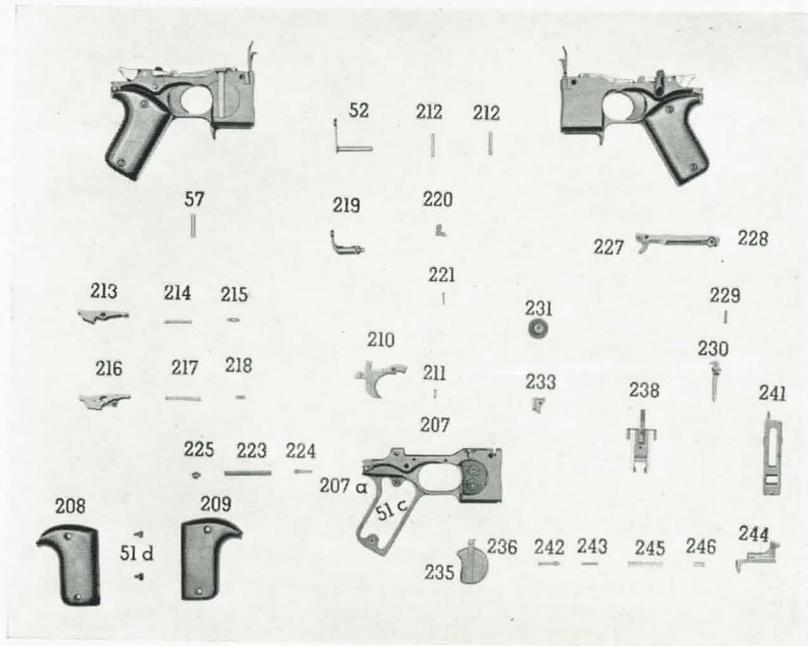


Plate VII.

List of component parts

- 51c Pistol grip frame.
- 51d Pistol grip screws.
- 52 Trigger guard retaining pin.
- 57 Sears axis pin.
- 207 Trigger guard.
- 207a Trigger guard stop.
- 208 Right grip plate.
- 209 Left grip plate.
- 210 Trigger.
- 211 Trigger spring.
- 212 Axis pin front.
- 212a Axis pin rear.

- 213 Right sear.
- 214 Right sear and change lever spring.
- 215 Change lever stop.
- 216 Left sear.
- 217 Left sear spring.
- 218 Left sear spring stop pin.
- 219 Change lever.
- 220 Slowing-up device catch.
- 221 Slowing-up device catch spring.
- 223 Slowing-up device lever spring.
- 224 Slowing-up device lever plunger.
- 225 Slowing-up device lever spring stop.
- 227 Slowing-up device lever.
- 228 Rack pin.
- 229 Rack spring.
- 230 Rack.
- 231 Slowing-up device pinion.
- 233 Ratchet.
- 235 Trigger guard cover.
- 236 Trigger guard cover spring.
- 238 Slide stop.
- 241 Ejector.
- 242 Ejector plunger.
- 243 Ejector plunger spring.
- 244 Magazine catch.
- 245 Magazine catch spring.
- 246 Magazine catch spring plunger.

The trigger guard contains the trigger mechanism, the slowing-up device, the slide stop, the magazine catch and the ejector.

The slowing-up device has a lever (227) articulated to a rack (230) which engages hooks of the pinion (231). The pinion engages a ratchet (233).

The left sear (216) acts the slowing-up device lever (227) through the catch (220). (Functioning of the device is described in separate chapter.)



The right sear (213) releases the slide (205).

On the left side of the trigger guard, is the change lever (219). The change lever acts the left sear (216) according the rate of fire required and puts the gun in safety.

The ejector (241) and the slide stop (238) are at the front end of the trigger guard.

The magazine catch (244) is at the bottom of the trigger guard.

On both sides of the grip of the trigger guard are wooden plates (208, 209) fastened by screws (51d).

5. BUTT STOCK WITH BUFFER AND RECOIL SPRINGS

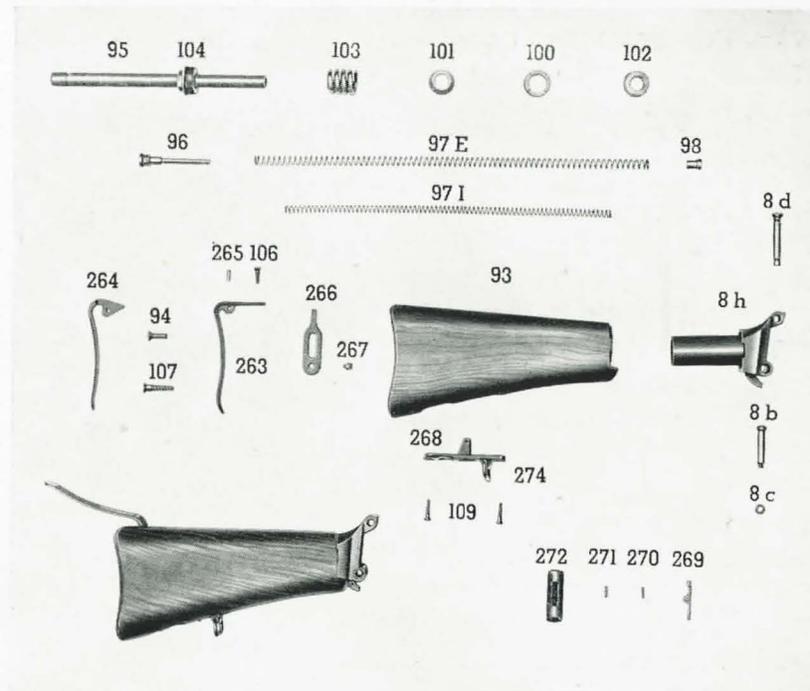


Plate VIII.

List of component parts

- 8b Axis pin screw.
- 8c Axis pin screw nut. (Nut for barrel handle).
- 8d Butt axis pin.
- 8h Butt support.
- 93 Butt.
- 94 Butt screw.
- 95 Return springs tube.



- 96 Return springs tube screw.
- 97E External return spring.
- 97I Internal return spring.
- 98 Return springs cap.
- 100 Buffer friction ring.
- 101 Buffer friction cone.
- 102 Buffer plug.
- 103 Buffer spring.
- 104 Buffer tube nut.
- 106 Butt plate screw (short).
- 107 Butt plate screw (long).
- 109 Butt support screw.
- 263 Butt plate.
- 264 Shoulder strap.
- 265 Shoulder strap axis pin.
- 266 Shoulder strap spring.
- 267 Shoulder strap spring screw.
- 268 Butt support.
- 269 Butt support socket catch.
- 270 Butt support socket catch axis pin.
- 271 Butt support socket catch spring.
- 272 Butt support socket ring.
- 274 Sling swivel.

The butt (93) in walnut, has a butt plate (263) with a swinging shoulder strap (264) which makes it easier to aim the gun.

The butt is fastened to its support (8h) by a screw (94).

The butt plate is fastened by screws to the butt (106, 107) and to the butt support (94).

The bushing (268) is fastened on the lower part of the butt by screws (109). (This device makes it possible to fasten the gun to a light tripod.)



At the front end of the butt the support (8h) contains the buffer consisting of a plug (102), four friction rings (100), four cones (101) and the buffer spring (103).

A tube (95) is screwed at the end of the support by a ring (104). The tube (95) contains the recoil springs (97E, 97I) with their cap (98) and screw (96).



6. MAGAZINE

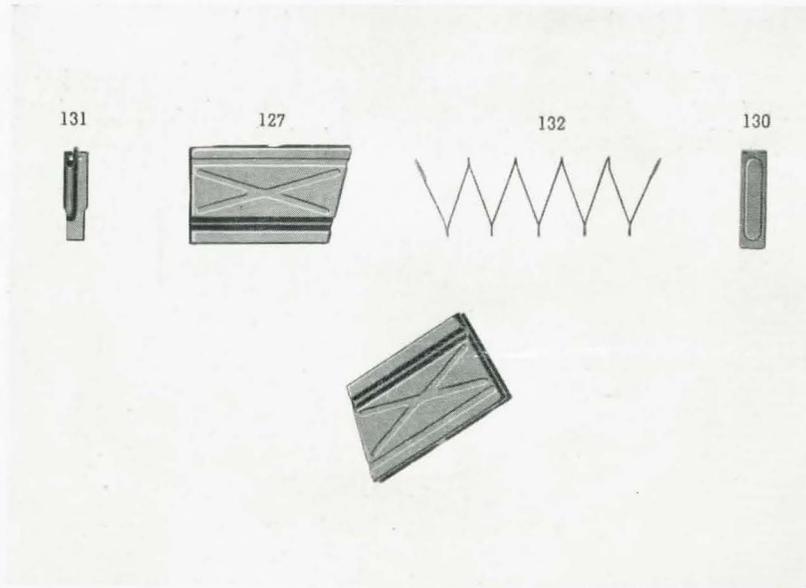


Plate IX.

List of component parts

- 127 Magazine.
- 130 Magazine bottom plate.
- 131 Magazine platform.
- 132 Magazine platform spring.

The magazine contains 20 cartridges. It is made of steel sheet reinforced by stamped grooves.

The upper face is open. The cartridges slide out along the lips of the upper opening of the magazine.

The magazine platform (131) pushes upward the cartridges through the action of the spring (132) which leans against the bottom plate (130) of the magazine.

The platform has at the rear a tail which acts the slide stop (238) when the magazine is empty.

7. ACCESSORIES

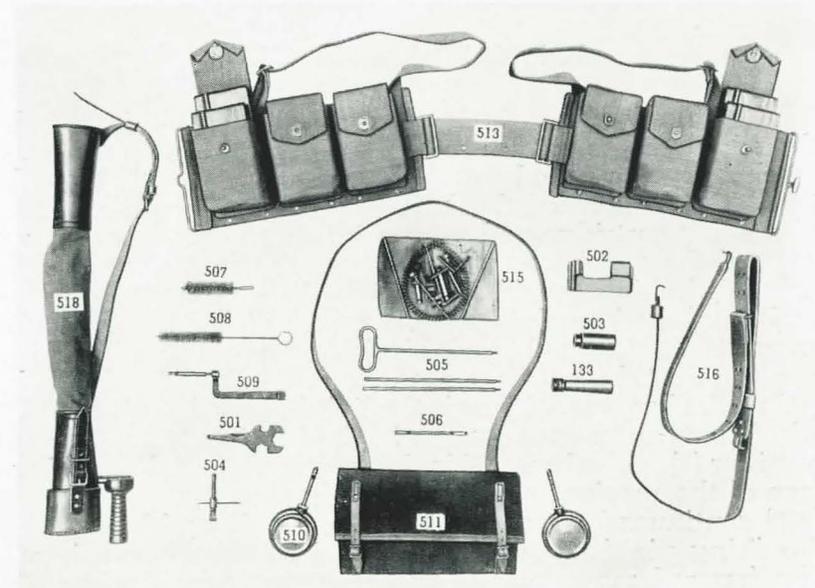


Plate X.

List of component parts

- 133 Flash hider.
- 501 Combination tool.
- 502 Magazine filler.
- 503 Blank firing device.
- 504 Gas cylinder cleaning tool.
- 505 Cleaning rod (3 pieces).
- 506 Barrel cleaning jag.
- 507 Barrel cleaning brush.
- 508 Chamber cleaning brush.
- 509 Extractor for ruptured cases.
- 510 Oil can, petrol can.
- 511 Fabric accessory case.
- 513 Belt for magazines.
- 515 Fabric pocket for small pieces.
- 516 Strap.
- 518 Fabric and leather case for spare barrel.



FUNCTIONING

FORWARD MOVEMENT

The gun being cocked, when the trigger (210) is pulled, the slide (205) is released by the right sear (213) and the mechanism is pushed forward by the recoil springs (97E, 97I). The bottom of the bolt (40) strikes the upper part of the first cartridge and pushes it into the chamber. The base of the cartridge case slides up the front face of the bolt (40) behind the extractor (45). When the lower cam surface of the breech-block (41) strikes the end of the bolt supports (11, 12) the breech-block raises up. The bolt (40) stops against the rear face of the barrel. The breech-block (41) pushed upward through the link (43) by the slide (205), which moves forward, comes in the locking recess of the receiver (8). The breech-block leaning against the locking face of the receiver completely locks the gun. The slide (205) continues forward with the hammer (48) which strikes the firing pin (47) and fires the primer of the cartridge. The forward movement of the slide is stopped when its shoulder strikes the rear part of the gas cylinder (247).

BACKWARD MOVEMENT

After the shot has been fired, when the bullet passes the gas opening in the barrel, a part of the expanding powder gases passes through the opening into the gas cylinder (247) and pushes to the rear the piston (204) and the slide (205). The slide (205), through the link (43) pulls down the breech-block (41) and unlocks the gun. The bolt (40) starts very slowly backwards, gaining speed as the breech-block (41) nears its completely unlocked position. When this point is reached the bolt (40) and breech-block (41) travel at the same speed as the slide (205). The withdrawal of the firing pin (47) results from the action of the slope cut in the breech-block (41) on the firing pin heel. The empty case is drawn from the chamber by the extractor (45) and is held against the front face of the bolt (40) until it strikes the ejector (241) which throws it out to the right through the ejection opening.

The backward movement limited to the rear by the buffer (102) produces the compression of the return springs (97E, 97I). The opening movement being complete, the slide (205) and the whole firing mechanism is held to the rear as the slide (205) is hooked by the right sear (213).

A remarkable feature of the Browning automatic rifle is the extreme softness with which the case is drawn out of the chamber. At the beginning of the opening movement when the breech-block reaches its low position, it is slightly pushed backward by a progressive movement when its cam comes in contact with the rear parts of the bolt guides (11, 12). That slight movement to the rear loosens the case from the chamber before it is carried out by direct pull. Extraction occurs thus by a double movement: first loosen the case from the chamber, then pull out by direct pull. That is one of the reasons why the gun is able to function correctly even with irregular ammunition.

AUTOMATIC FIRING AT FULL RATE

Cock the gun and set change lever (219) in position "M". Pull the trigger. Firing will be going on at full rate until the pull on the trigger is released. With change lever (219) in the "M" position, the left sear (216) is switched off and does not interfere with the movement of the slide (205). The slowing-up device has consequently no action on the mechanism.

AUTOMATIC FIRING AT SLOW RATE

Cock the gun and set change lever (219) in position "R". The slide is kept in the rear position by the right sear (213) which is a little longer than the left sear (216). By pulling the trigger (210) the sear (213) releases the slide (205). The slide (205) pushed forward by the recoil springs (97E, 97I) is retained by the second sear (216) which moves slightly forward owing to the oval hole of its pin (57). The left sear drives forward the catch (220) which releases the slowing-up device lever (227). This lever raises up under the action of the spring (223). The raising movement of the lever is slowed by the interference of the rack (230),



the pinion (231) and the ratchet (233). That slowing-up movement constitutes the slowing-up of the rate of fire itself.

The lever (227) being raised, swings up the forward end of the left sear (216) and draws down the rear end of the sear. When the raising movement of the lever (227) is completed, the sear (216) disengages completely from the notch in the slide and the slide is released and pushed forward by the return springs (97E, 97I). When moving forward the slide (205) depresses the lever (227) which is caught again by the latch (220).

SINGLE SHOT FIRING

Cock the gun and set change lever (219) in position "R" (same as for slow automatic firing). Release the trigger after each shot. The rate of fire is slow enough to release the trigger quickly enough to prevent double shots.

GAS INLET ADJUSTMENT

The gun being ready in firing position, the adjustment of the gas inlet is made as follows:

Unscrew the shroud (255) by means of the screw (253) and the combined tool (501) until the gas escape holes are nearly discovered. Cock the gun and set change lever (219) in position "R". Firing shot by shot the mechanism must remain open after every shot, the slide being stopped at the rear, and the ejection must be normal, i.e. the empty cases are projected about one and a half yard away.

If the functioning is not correct screw the mantle a little more, in order to obturate a little more the gas escape holes, until functioning is correct.

If the ejection is too violent unscrew the shroud until functioning is as described above.

FUNCTIONING OF THE BUFFER

After every shot, the slide (205) is violently projected to the rear. That movement is slowed by the return springs (97E, 97I) through the return spring rod (50).

The slide strikes the plug (102) which recoils and pushes back the first friction ring (100) and the first cone (101) which is pressed into the ring and pushes the next one and so on the last one compressing the buffer spring (103). The friction rings (100) who are split, open slightly under action of the cones (101) and rub against the tube (8h) containing the buffer. The friction of the rings (100) added to the action of the return springs (97E, 97I) and that of the buffer spring (103) absorb the recoil of the mechanism.



HOW TO OPERATE THE GUN

TO PUT THE GUN IN FIRING POSITION

Squeeze slightly the two legs of the bipod (290) and swing them to the front until they are perpendicular to the gun. Release the legs which will open under action of their spring (121R). The tops of the legs will insert themselves in the grooves of the head of the bipod (112). The bipod is then in position to support the gun. Swing the handle (1d) to the left and engage end of the handle in the groove of the nut (1b). Open magazine cover (88) by swinging it forward. Open ejection opening cover (16). Raise shoulder plate (265).

TO REMOVE THE GUN FROM FIRING POSITION

Lower the shoulder plate (265). Close ejection opening cover (16). Close magazine cover (88). Disengage the handle (1d) out of the nut (1b) and swing it upward. Squeeze the legs of the bipod (290) in order to disengage their heads from the grooves in the bipod head (112) and swing them backward along the gas cylinder.

TO PUT THE GUN IN SAFETY

Push the change lever (219) in front of the letter "S". In that position the trigger (210) is locked and unable to act on the sear (213).

TO LOAD THE GUN

Pull back the cocking lever (33) as far as possible to the rear in order to let the slide (205) be caught by the sear (213). Push forward cocking lever (33). Push a filled magazine upward in the receiver.

Push the change lever (219) in the desired position (full or slow rate of fire). The gun is ready to fire.

TO UNLOAD THE GUN

Drop the magazine by pulling the magazine catch (244). Close the mechanism by pulling the trigger. Push lever (219) in safety position "S".

TO REMOVE THE BARREL

Make sure that the end of the handle (1a) is inserted in the groove of the locking nut (1b). Press the locking lever (8a) and turn the handle (1d) upward to the vertical position. Take off the barrel by pushing forward on the handle.

TO REPLACE THE BARREL

Take the barrel by the handle (1d) the regulator being downward. Introduce the rear of the barrel in the receiver (8) the front of the barrel leaning in its V support in the front part of the gas cylinder (247) on its flat face. The regulator is then introduced in the gas cylinder (247). Pull the barrel to the end in the receiver (8) and swing to the left as far as possible the handle (1d). The barrel is locked to the receiver.



DISMOUNTING AND ASSEMBLING

A. DISMOUNTING AND ASSEMBLING OF THE MECHANISM

I

PARTIAL DISMOUNTING

The rifle is left in the firing position, resting on its bipod.

Remove the magazine (127) by pulling the magazine catch (244).

Pull the trigger (210) to allow the mechanism to move forward.

Remove the trigger guard retaining pin (52) and the trigger guard (207).

With the left hand pull the cocking handle to the rear as far as possible; keep it in that position and press the right hand thumb on the bolt guide stud (14) which is placed on the receiver left side, above the cocking handle (33).

The bolt guide is withdrawn and the bolt (40) disengages itself under the action of its own weight.

Let the mechanism move forward.

The shooter can thus reach the bolt (40), the bolt lock (41), the extractor (45), the extractor spring (46) and the firing pin (47); the three latter parts can be replaced if necessary. This quick dismounting makes it also possible to have the trigger guard checked and dismounted if needed.

PARTIAL ASSEMBLING

Replace the firing pin (47), the extractor (45) and its spring (46).

With the left hand, pull the cocking handle (33) to the rear as far as possible.

With the right hand, grasp the bolt (40) and, while keeping the firing pin home (47), introduce the bolt (40) in the receiver (8) in order to engage the bolt head behind the bolt support (11 and 12).

Press upwards in order to overcome the resistance of the bolt guide (14).

Let the mechanism come forward under the action of the return springs (97I, 97E).

Replace the trigger guard and its retaining pin (52).

Replace the magazine.

II

COMPLETE DISMOUNTING

The weapon is placed in the firing position on its bipod.

Remove the magazine and let the mechanism come forward by pulling the trigger.

Remove the trigger guard retaining pin (52) and the trigger guard (207) (for the dismounting of the trigger guard, see special chapter).

Pull completely to the right the butt axis pin (8d) fixing the butt to the receiver.

Swing **completely** downward the butt (93); the weapon is thus held standing by the bipod and the butt.

By means of the recoil spring rod (50), pull to the rear the mechanism off the weapon, that is the slide (205), the piston (204), the bolt (40), the breech block (41), the link (43), the hammer (48) and the return spring rod (50).

Remove the firing pin (47) from the bolt (40).

Remove the hammer pin (49). The slide is thus separated from the hammer (48) and from the link-bolt-breech block group.

Withdraw the hammer (48) from the slide (205).



Remove the return spring rod (50).

Remove the link pin (44). The link (43) is thus separated from the bolt-breech-block group.

Put the firing pin under the head of the extractor (45) and disengage the extractor from the bolt (40), remove the extractor (45).

Remove the extractor spring (46).

COMPLETE ASSEMBLING

Replace the extractor spring (46) in the extractor (45).

Replace the extractor (45) in the bolt by pressing the head of the extractor and pushing it completely home.

Reconnect the bolt-breech-block group to the link (43) by means of the link pin (44).

Replace the return spring rod (50) in the slide (205).

Replace the hammer (48) in the slide.

Reconnect the bolt-link group to the slide (205) and to the hammer (48) by means of the hammer pin (49) taking care to place the head of this pin on the right side of the slide.

Replace the firing pin (47) in the bolt (40).

Replace the parts constituting the mechanism in the receiver (8). Push home all the parts of the mechanism in the receiver by introducing the slide in its housing and keeping the bolt in the upper part of the receiver in such a way as to introduce it in its guiding grooves.

Swing the butt (93) upwards.

Fix the butt (93) to the receiver (8) by pushing home the axis pin (8d).

Replace the trigger guard (207) and its retaining pin (52).

Replace the magazine (127).

B. COMPLETE DISMOUNTING AND ASSEMBLING OF THE WEAPON

I

COMPLETE DISMOUNTING OF THE BARREL

a) **Remove the barrel of the weapon** as indicated in the chapter "How to use the gun".

b) **Dismounting of the handle.** – Unscrew the barrel ring (1b); to do so, disengage it from the handle support (1c), swing the handle until its nozzle is turned downwards and remove it. Unscrew the handle screw (8c), remove the washer (1e) and the handle (1d). The handle (1c) can then be disengaged from the main body of the handle liberating the spring (1f) and the handle spring head (1g).

c) **Dismounting of the regulator.** – Unscrew the regulator (252) by means of its nut (253) and remove the parts. Unscrew the regulator fixing screw (251) and remove the regulator (250) from behind.

d) Unscrew the flash hider (133) or the muzzle ring (136).

COMPLETE ASSEMBLING OF THE BARREL

a) **Assembling of the regulator.** – Insert the regulator (250) in the gas cylinder tube bracket. Screw the regulator by means of the fixing screw (251) and screw the regulator nut (252).

b) **Assembling of the carrying handle.** – Replace the handle spring (1f) in the handle grip, fit the handle spring head (1g) on its spring (1e), insert the handle (1c) in the handle support (1a) and push it home in order to press the spring completely, then introduce the handle (1d) completely home. Replace the washer (1e) and the nut (8c).

c) Replace the carrying handle on the barrel, proceeding by reverse way as when dismounting it.

d) Replace the flash hider (133) or the muzzle ring (136).



COMPLETE DISMOUNTING OF THE RECEIVER

After dismounting of the mechanism (see chapter "complete dismounting of the mechanism"), separate the "butt group" from the receiver (8) by pulling as far as possible to the right the axis (8d) and unscrewing the butt axis pin screw nut (8b) fixing the butt to the receiver (8).

a) **Bipod.** - To disengage the bipod push out the swivel pin (124) and pull the bipod downwards. The bipod head and its spring are thus disengaged (277, 277a). The assembly [the bipod legs (290), swivel (112), pivot (111), outside and inside plugs (116R, 117R), leg brace spring (121R), shoes (119)] being riveted cannot be dismounted.

b) **Cocking handle.** - To remove the cocking handle (33) push down the plunger pin (34) in order to enable it to move over the slot of the lever groove. Withdraw the operating handle (33) forward. Push the small cocking handle plunger (35) (by means of the firing pin) to the bottom, push the handle plunger pin (34) out and let the operating handle plunger (35) come back under the action of its spring (36).

c) **Bolt guide.** - Turn the receiver upside down and disengage the forward part of the bolt guide spring (15) from the slot in the bolt guide (14) then draw back the back part of the spring from its housing as well as the bolt guide (14).

d) **Magazine opening cover.** - Disengage the stop spring (92) from the magazine opening cover support (88d) and draw the magazine opening cover spring (88b) to the rear, as well as the magazine opening cover (88). This latter part disengages from its support by chasing the magazine opening cover axis (89) thus liberating the pin of the cover (91) and its spring (92).

e) **Ejector opening cover.** - Swing the cover stud retainer (21) a quarter turn towards the bottom. The cover lever (18), the cover (16) and the fixing stud (21) are thus disengaged.

f) **Backsight.** - Expel the pin from the backsight base (STA21). Press on the back of the backsight base (8) to compress the backsight spring (STA1) and enable the disengagement of the backsight leaf from the backsight base (8n). At the same time, push forward. Pull the backsight spring (STA1) to the rear. By pressing on the two backsight slide catches (STA2) disengage the backsight slide (STA3) from the backsight leaf (8i). Pull the knobs (STA2) and the springs (STA4). The backsight base (8n) remains riveted to the receiver (8).

g) **Handguard plates.** - Remove the handguard plates (259D, 259G) by unscrewing the screws (259v) and remove the lock washers (259w).

h) **Locking nut catch lever.** - It can be dismounted by expelling its axis (8r) disengaging thus the lever (8a) and its spring (8s).

i) **Butt axis pin.** - The axis pin (8d) is disengaged by unscrewing the screw (8g) which liberates the spring (8f) and the axis pin plunger (8e).

COMPLETE ASSEMBLING OF THE RECEIVER

a) **Butt axis pin.** - Replace the axis pin (8d) in its place (upper hole) on the receiver (8). Turn the receiver upside down and introduce the plunger (8e), the spring (8f) and the screw (8g) in their place on the end of the right side of the receiver.

b) **Locking nut catch lever.** - Put the lever spring (8s) in its base on the lever (8a). Place the lever on the receiver by compressing the spring (8s) and introduce the axis pin (8r).

c) **Handguard plates.** - Screw the plates (259D, 259G) and insert the lock washers (259w) between the screws (259v) and the receiver.

d) **Backsight.** - Replace the catches (STA2) and the springs (STA4) on the backsight slide (STA3) by pressing on both catches (STA2). Introduce the backsight leaf (8i)



in the slide (STA3). Replace the spring (STA1) in its housing, then press on that spring using the backsight leaf (8i) to enable the reengagement of the leaf knobs in the base (8n). Introduce the backsight base pin (STA21).

e) **Ejector opening cover.** — After the cover (16) has been reconnected to the lever (18), place them on the receiver in the "open" position. Introduce the cover stud retainer (STA21), press it against the receiver and turn the stud (STA21) one quarter of a turn to the left.

f) **Magazine opening cover.** — Introduce the spring (92) and the plunger (91) in the support spring box of the cover (88c), fit it in the hinge of the cover (88a) and press to introduce the axis (89). Replace the support (88d) and the cover (88) in its grooves making sure that the stop spring (92) is in the right position.

g) **Bolt guide.** — Replace the bolt guide (14) by proceeding in the reverse way used for dismounting.

h) **Cocking lever.** — Introduce the cocking handle spring (36) and the small plunger (35) in the handle of the cocking lever so as to have the ovale part of the plunger turned downward. Push the plunger, by means of the firing pin, so as to be able to introduce the pin (34) through the lower opening of the handle, the longer part of the pin (34) being introduced first. Replace the cocking lever in the groove of the receiver so that the plunger pin (34) overleaps the notch of the lever's groove.

i) **Bipod.** — Replace the bipod head spring (277a) into its position, locate the two parts of the bipod head (277) at the end of the gas cylinder (247) and introduce the bipod head in the assembly block (112) so as to have the sling swivel turned forward. Place the bipod legs at mid position between the carrying and the firing position, then replace the fixing pin (124).

To replace the butt. screw the axis screw (8b) fastening the butt to the receiver.

III

DISMOUNTING AND ASSEMBLING THE MECHANISM

See chapter "Dismounting and assembling of the mechanism", page 34.



IV

COMPLETE DISMOUNTING OF THE TRIGGER GUARD

Remove the pin (52) and the trigger guard (208) from the receiver.

By means of the firing pin, expel the pin (57) pushing with the thumb on both right and left sear (213, 216) and remove the sears and their springs (215, 218).

Remove the change lever (219) by pressing the fore-end of lever (227).

With a screw driver, press the catch spring plug (225) and turn it one quarter of a turn. This lets free the spring plug (225), the spring (223) and the plunger (224).

Remove the pin (212) by means of the firing pin.

Keep the lever plunger (224) off the action of the catch (220) by pushing it forward, at the same time depress the rear end of the lever (227) so as to raise its fore-end.

Remove the lever (227), the rack and the rack spring (229), and disassemble them.

Raise the trigger guard cover spring (236) and turn the cover (235) one quarter of a turn to the left. Remove the cover (235).

Remove the pinion (231).

Remove the ratchet (233) by turning it one quarter of a turn to the right.

Remove trigger pin (212) by means of the firing pin.

Remove the trigger (210) and trigger spring (211).

Remove the catch (220) and the catch spring (221).

Push to its rearmost position the magazine catch (244) and, using the cartridge tip, or the firing pin, push the ejector plunger (242) in so as to liberate the plunger from the ejector (241). Pull up the ejector as far as possible. Let the magazine catch go: the magazine catch (244), the spring (245) and the plunger (246) are disengaged.



Remove the ejector (241) and the slide stop (238).

Unscrew the hand grip screws (51d) and remove right and left hand grip plates (208, 209).

COMPLETE ASSEMBLING OF THE TRIGGER GUARD

Replace the grip plates (208, 209) and fasten them with the screws (51d).

Replace the ejector (241) and the slide stop (238) in their grooves (the upper one for the ejector). Stop the ejector (241) when its lower part reaches the upper edge of the housing of the magazine catch (244).

Push the slide stop (238) as far as possible. Replace the magazine catch (244), the spring (245) and the plunger (246). Push the catch to the rear. Push the ejector (241) down in its groove until it comes in touch with the plunger (242). Push the plunger (242) in, using the point of a cartridge, push the ejector home.

Replace the slowing-up device catch (220) and the spring (221).

Replace the trigger (210), the spring (211) and the trigger pin (212).

Replace the ratchet (233) and the pinion (231).

Replace the trigger guard cover (235).

Assemble the lever (227), the rack (230) and the rack spring (229).

Replace the assembled lever (227) so that the rack engages the hooks of the pinion (231). Fasten the lever with the trigger pin (210).

Replace the lever spring (233), the lever plunger (224) and the spring plunger (225) by proceeding in the reverse way used for dismounting.

Replace the change lever (219) by pushing slightly down the fore-end of the lever (227).

Replace the right sear (213) by introducing the change lever stop (215) carried by the right sear, in its housing in the trigger guard (207). Fasten the right sear by the sear axis (57) partly introduced.

Replace the left sear (216), the spring (217) and spring plug (218). Fasten the sear by the sear axis (57).

V

COMPLETE DISMOUNTING OF THE BUTT

Remove completely to the right the axis pin (8d). Unscrew the axis pin screw (8b). Remove the screw. The butt is disconnected from the receiver (8).

a) **Butt support.** — Remove the butt screw (109) and the butt support (268). Expel the catch axis pin (270) and disengage the socket catch (269) and the spring (271). Remove the socket ring (272) from the butt.

b) **Butt plate.** — Unscrew the butt plate screws (106, 107) and the butt screw (94). Remove the butt plate (263). Unscrew the shoulder strap screw (267), disengage the spring (266). Expel the pin (265) connecting the shoulder strap (264) with the butt plate (263).

c) **Return springs.** — The butt plate, the butt screw (94) and the butt (97) having been removed. unscrew the screw (96), remove the return springs (97E, 97I) and disassemble them as well as the cap (98).

d) **Buffer.** — The butt screw (94) and the butt (93) removed from the support (8h) using the combination tool (501) unscrew the buffer tube (104) fastened on the tube (95). Remove the buffer spring (103), the buffer friction ring (100) and the cones (101) as well as the buffer plug (102).

COMPLETE ASSEMBLING OF THE BUTT

a) **Buffer.** — Replace on the recoil spring tube (95) the friction rings (100), the cones (101) (placing alternatively one cone, one friction ring, and so on) and the buffer plug (102), taking care that the flat face of the first cone (101) rests on the buffer tube nut (104) and that each of the friction cones (101) fits into the conical part of the preceding



friction ring (100). The buffer plug is replaced so that its larger diameter is in contact with the flat part of the last buffer friction ring (100). Replace these parts into the butt support (8h). After correct location, remove the tube (95). Replace the buffer spring (103) in the butt support (8h) then screw again the buffer tube nut (104).

b) **Return springs.** - Replace return spring cap (98) on the external spring (97E), replace internal spring (97I) inside the external one. Replace both springs and cap in the recoil tube (95) and screw the screw (96).

c) **Butt plate.** - Fasten the shoulder strap (264) on the butt plate (263) with the pin (265). Replace shoulder strap spring (266) and screw (267). Screw the butt plate screws (106, 107), the butt screw (95) after buffer device and recoil springs have been replaced in the butt.

d) **Butt support.** - Replace the socket ring (272) in the butt. Locate butt support catch (269) into the butt support (268), place the catch so that its recess takes the end of the spring (271), press on the spring and replace the pin (270). Replace the butt support (268) and fasten it to the butt with its screws (109).

RECOMMENDATIONS

1. Always carry the gun in safety position.
2. Oil very slightly the moving parts. It is important to keep from oiling too much the gun when used in a sandy country. The gun must be kept nearly dry.
3. See that the barrel is clean and clear before firing.
4. See that gas inlet has the proper setting.
5. Make sure that magazine is clean and dry without oil.
6. Make sure that magazine is well inserted in the receiver and well fastened.
7. Do not introduce by hand a cartridge in the chamber of a hot barrel.
8. In case of stoppage drop the magazine and cock the gun.
9. In case of misfire wait 3 seconds before opening the mechanism.
10. In order to be ready to fire at once, it is possible to carry the gun safely with closed mechanism and a filled magazine inserted in the receiver. One has just to cock the gun to be ready to open fire.
11. When the rifle is not in use the magazine cover and the ejection opening cover would be kept closed to prevent introduction of sand or dust in the mechanism.



GENERAL DATA

Weight of the gun	9.200 kg.
Weight of the complete barrel	2.650 kg.
Weight of the magazine	0.250 kg.
Length of the gun	1,060 mm.
Length of the gun with flash hider . .	1,145 mm.
Length of barrel	500 mm.
Rate of fire (slow rate)	350 shots/min.
Rate of fire (full rate)	600 shots/min.

STANDARD EQUIPMENT

SPARE PARTS

- 1 assembled barrel,
- 1 link and breech block assembly pin,
- 2 link and assembly pins,
- 1 sear axis pins,
- 11 magazines,
- 2 trigger guard retaining pins,
- 2 assembly axis (receiver - butt),
- 1 ejector,
- 2 extractors,
- 1 trigger axis pins,
- 1 slowing-up lever pin,
- 2 firing pins,
- 1 link axis spring,
- 2 extractor springs,
- 1 bolt guide spring,
- 1 return spring (outside and inside),
- 2 return spring rods.

ACCESSORIES

- 133 Flash hider.
- 501 Combination tool.
- 502 Magazine filler.
- 503 Blank firing device.
- 504 Gaz cylinder and piston cleaning tool.
- 505 Cleaning rod (3 parts).
- 506 Barrel cleaning jag.
- 507 Barrel cleaning brush.
- 508 Chamber cleaning brush.
- 509 Extractor for ruptured cases.
- 510 Oil can.
- Petrol can.



- 511 Fabric accessory case.
- 513 Belt for magazines.
- 515 Fabric pocket for small pieces.
- 516 Strap.
- 518 Fabric and leather case for spare barrel.

F. N. BROWNING AUTOMATIC RIFLE

Type D

WITH DETACHABLE BARREL

LIST OF PARTS

N°	Part	Number
1	Barrel	1
1a	Barrel handle support	1
1b	Barrel locking nut	1
1c	Barrel handle (steel) inner	1
1d	Barrel handle (wood) outer	1
1e	Barrel handle washer	1
1f	Barrel handle coil spring	1
1g	Barrel handle coil spring plunger	1
2	Foresight blade	1
3	Foresight bed	1
4	Foresight bed key	1
5	Foresight bed pin	1
8	Receiver	1
8a	Locking nut catch lever	1
8b	Axis pin screw	1
* 8c	Axis pin screw nut. (Nut for barrel handle)	1
8d	Butt axis pin	1
* 8e	Axis pin plunger	1
* 8f	Axis pin plunger coil spring	1
* 8g	Axis pin plunger coil spring screw	1
8h	Butt support	1
8i	Backsight leaf	1

N. B. - The parts marked with an asterisk * don't appear on the maps representing the cross section of the weapon.



N°	Part	Number
STA1	Backsight spring	1
STA2	Backsight slide catch	2
STA3	Backsight slide	1
*STA4	Backsight slide catch spring	2
*STA21	Backsight leaf pin	1
8n	Backsight base	1
8o	Backsight base rivet	1
* 8q	Gas cylinder pin	1
8r	Locking nut catch lever axis pin	1
8s	Locking nut catch lever axis pin spring	1
9	Top plate	1
11	Bolt support right	1
12	Bolt support left	1
13	Bolt support rivet	6
14	Bolt guide	1
* 15	Bolt guide spring	1
16	Ejection opening cover	1
17	Ejection opening cover stud	1
18	Ejection opening cover lever	1
19	Ejection opening cover safety stud	1
20	Ejection opening cover fixing stud	1
21	Ejection opening cover stud retainer	1
33	Cocking handle	1
34	Cocking handle plunger pin	1
35	Cocking handle plunger	1
36	Cocking handle plunger spring	1
40	Bolt	1
41	Breech block	1
* 42	Bolt and breech block assembly axis	1
43	Link	1
44	Breech block and link assembly pin	1
* 44a	Breech block and link assembly pin spring	1

N. B. - The parts marked with an asterisk * don't appear on the maps representing the cross section of the weapon.



N°	Part	Number
45	Extractor	1
* 46	Extractor spring	1
47	Firing pin	1
48	Hammer	1
49	Link and slide assembly pin	1
50	Return springs rod	1
51c	Pistol grip frame	4
51d	Pistol grip screws	4
52	Trigger guard retaining pin	1
* 53	Trigger guard retaining pin handle	1
57	Sears axis pin	1
88	Magazine opening cover	1
88a	Magazine opening cover hinge	1
88b	Magazine opening cover support	1
88c	Magazine opening cover support spring box	1
88d	Magazine opening cover support stop spring	1
* 88e	Magazine opening cover support stop spring rivet	2
89	Magazine opening cover axis pin	1
91	Magazine opening cover stop pin	1
92	Magazine opening cover stop pin spring	1
93	Butt	1
94	Butt screw	1
95	Return springs tube	1
96	Return springs tube screw	1
97E	External return spring	1
97I	Internal return spring	1
98	Return springs cap	1
100	Buffer friction ring	4

N. B. - The parts marked with an asterisk * don't appear on the maps representing the cross section of the weapon.



N°	Part	Number
101	Buffer friction cone	4
102	Buffer plug	1
103	Buffer spring	1
104	Buffer tube nut	1
106	Butt plate screw (short)	1
107	Butt plate screw (long)	1
109	Butt support screw	2
111	Bipod pivot	1
112	Bipod assembly block	1
116R	Bipod legs external plug	1
117R	Bipod legs internal plug	1
118R	Bipod legs plugs axis	2
119	Bipod legs shoes	2
121R	Bipod legs spring	1
123	Bipod legs axis pin	2
124	Bipod fixing pin	1
125	Bipod legs rivets	2
127	Magazine	1
128	Magazine filler	1
129	Magazine rivets	2
130	Magazine bottom plate	1
131	Magazine platform	1
132	Magazine platform spring	1
133	Flash hider	1
* 136	Muzzle ring	1
201	Gas cylinder tube bracket	1
201a	Gas cylinder tube bracket pin	1
204	Gas piston	1
205	Slide	1
206	Gas piston fixing pin	1
207	Trigger guard	1
* 207a	Trigger guard stop	1

N. B. - The parts marked with an asterisk * don't appear on the maps representing the cross section of the weapon.

N°	Part	Number
208	Right grip plate	1
209	Left grip plate	1
210	Trigger	1
211	Trigger spring	1
212	Axis pin	1
212	Slowing up lever axis pin	1
213	Right sear	1
214	Right sear and change lever spring	1
215	Change lever stop	1
216	Left sear	1
217	Left sear spring	1
218	Left sear spring stop pin	1
219	Change lever	1
220	Slowing-up device catch	1
221	Slowing-up device catch spring	1
222	Slowing-up device catch axis pin	1
223	Slowing-up device lever spring	1
224	Slowing-up device lever plunger	1
225	Slowing-up device lever spring stop	1
226	Slowing-up device lever spring stop pin	1
227	Slowing-up device lever	1
228	Rack pin	1
229	Rack spring	1
230	Rack	1
231	Slowing-up device pinion	1
232	Slowing-up device pinion axis pin	1
232	Ratchet axis pin	1
233	Ratchet	1
235	Trigger guard cover	1
* 236	Trigger guard cover spring	1
* 237	Trigger guard cover spring rivets	2
238	Slide stop	1

N. B. - The parts marked with an asterisk * don't appear on the maps representing the cross section of the weapon.

N°	Part	Number
239	Slide stop pellet	1
240	Slide stop pellet spring	1
241	Ejector	1
242	Ejector plunger	1
243	Ejector plunger spring	1
244	Magazine catch	1
245	Magazine catch spring	1
246	Magazine catch spring plunger	1
247	Gas cylinder	1
250	Regulator	1
251	Regulator fixing nut	1
252	Regulator operating screw	1
253	Regulator operating screw head	1
254	Regulator operating screw assembling pin.	1
255	Regulator sliding shroud	1
256	Regulator sliding shroud spring	1
259D	Handguard plate right	1
259G	Handguard plate left	1
* 259r	Handguard plate right plug	2
259v	Handguard plate screws	4
259w	Handguard plate screws lock washers	4
263	Butt plate	1
264	Shoulder strap	1
265	Shoulder strap axis	1
266	Shoulder strap spring	1
267	Shoulder strap spring screw	1
268	Butt support	1
269	Butt support socket catch	1
270	Butt support socket catch axis	1
271	Butt support socket catch spring	1
272	Butt support socket ring	1
274	Sling swivel	2

N. B. - The parts marked with an asterisk * don't appear on the maps representing the cross section of the weapon.



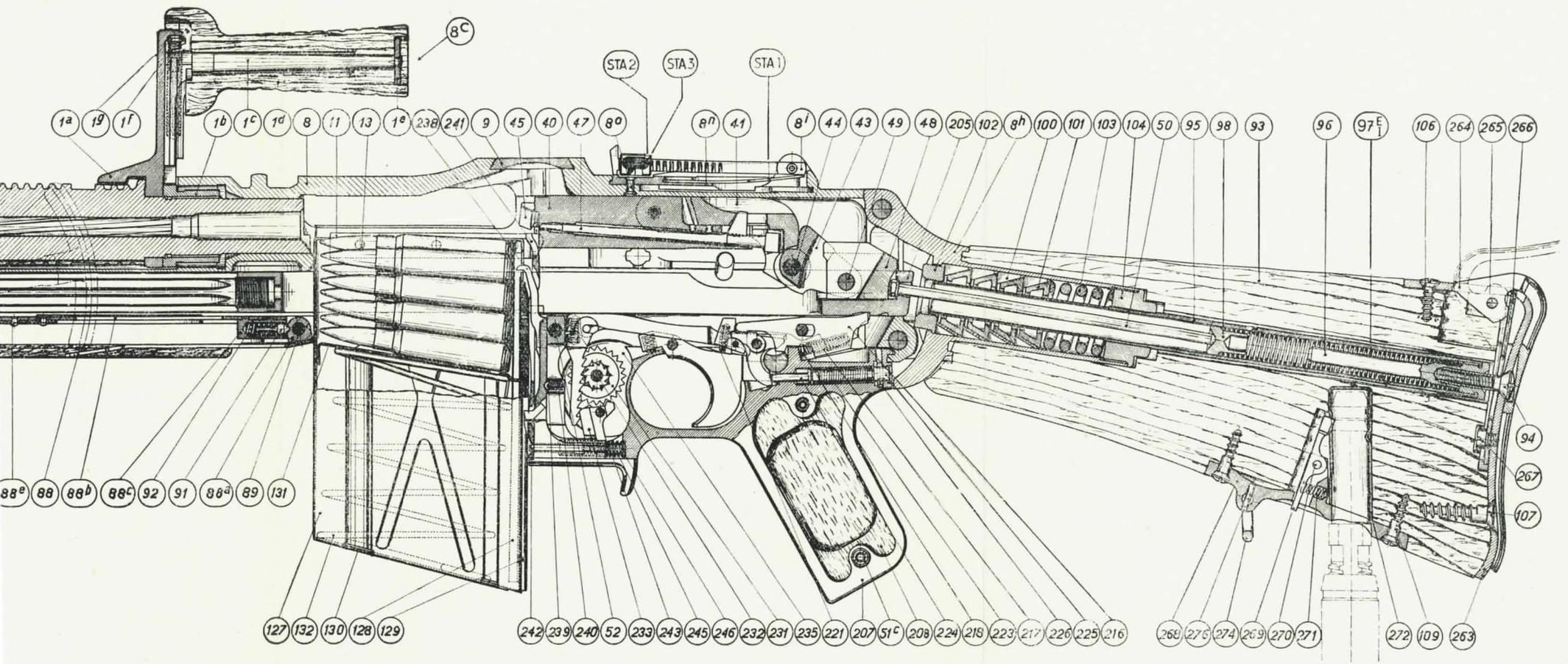
N°	Part	Number
275	Sling swivel pin	1
276	Sling butt swivel pin	1
277	Bipod head	1
277a	Bipod head spring	1
290	Bipod legs	2

N. B. - The parts marked with an asterisk * don't appear on the maps representing the cross section of the weapon.

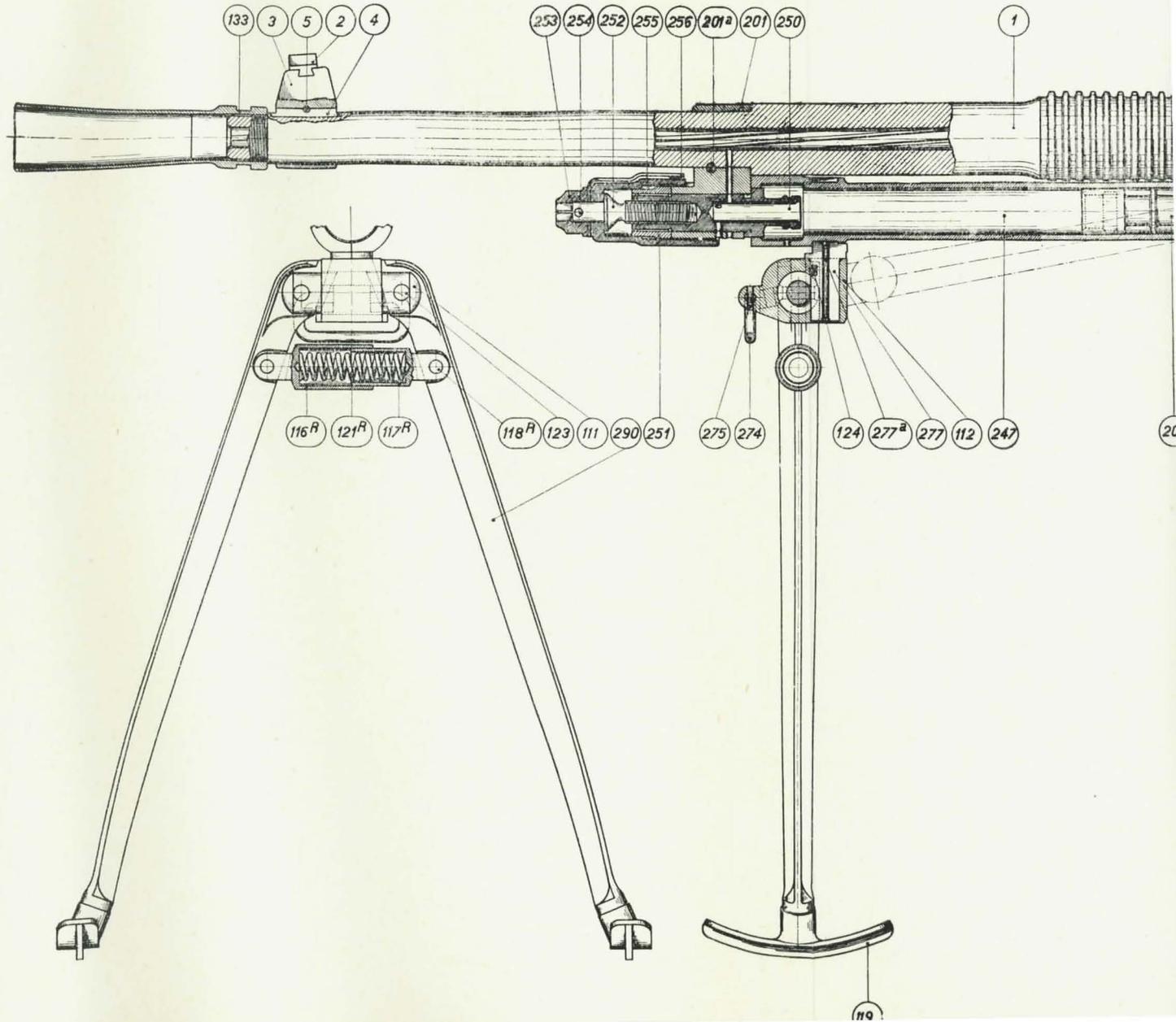


LINE RIFLE, TYPE D, WITH DETACHABLE BARREL

CUTAWAY VIEW

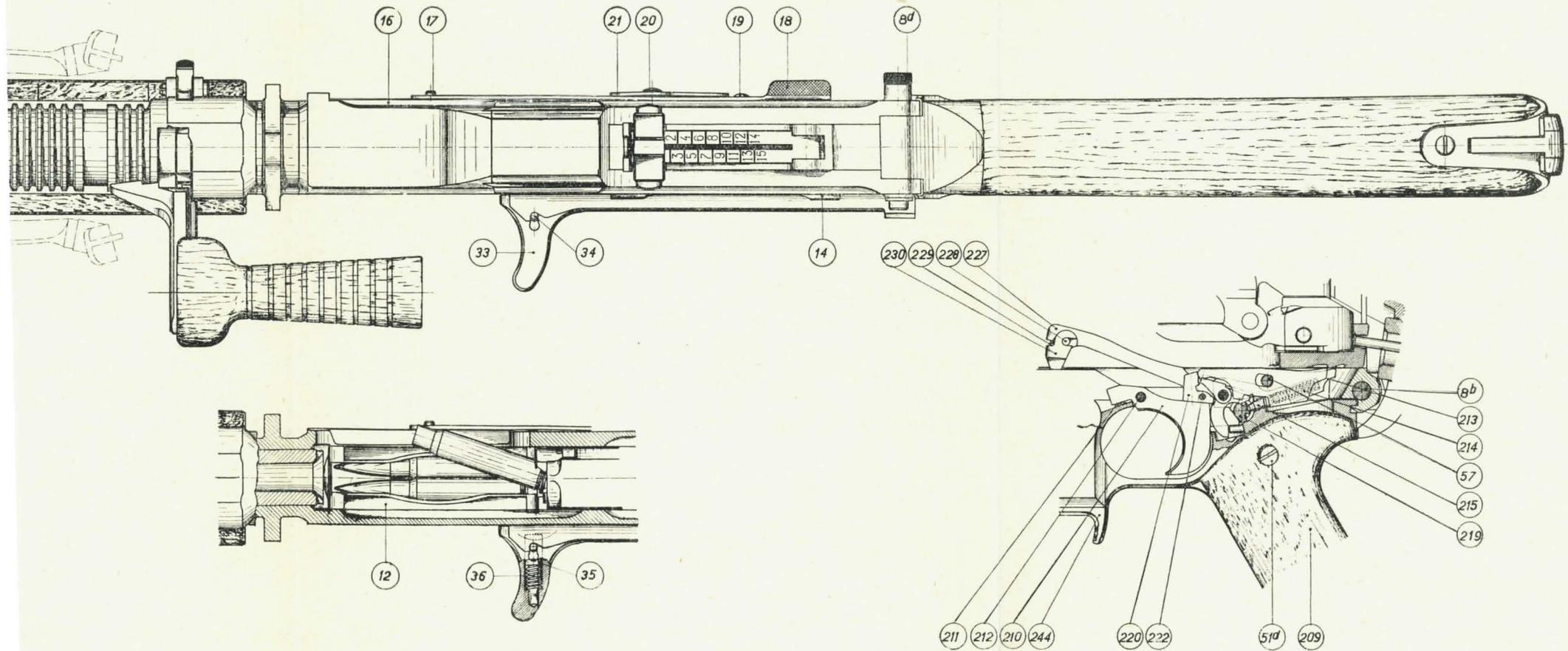


BROWNING AUTOMATIC



LINE RIFLE, TYPE D, WITH DETACHABLE BARREL

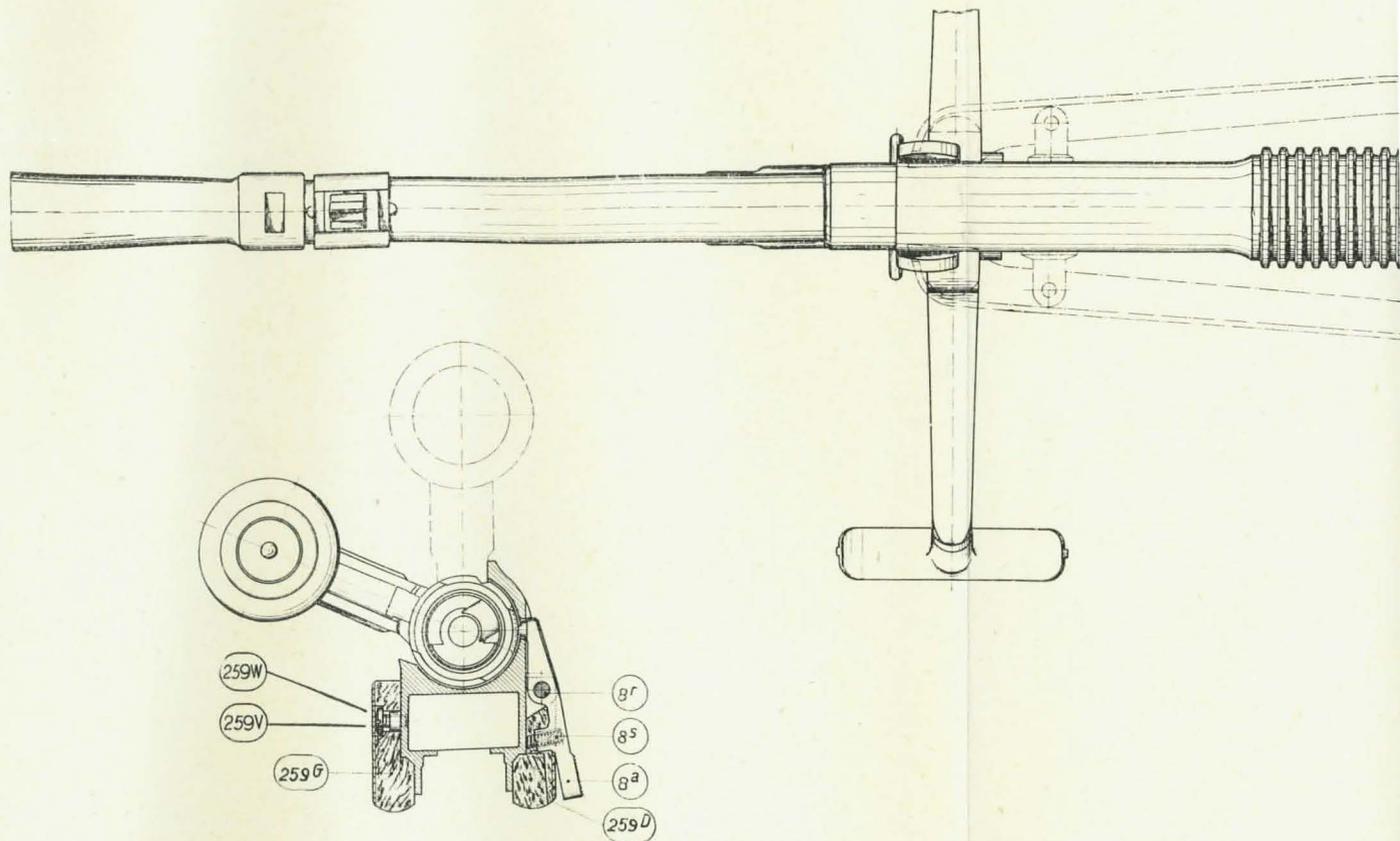
TOP VIEW



Empty shell ejection

Trigger mechanism

BROWNING AUTOMATIC



Fixing device of the barrel

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