

P7 Selfloading Pistol

Calibre 9 mm x 19



HECKLER & KOCH GMBH · D-7238 OBERNDORF
FEDERAL REPUBLIC OF GERMANY

P7 Selfloading Pistol

Functional Description

P7 Selfloading Pistol

Item	Part designation	Part No.	Ident No.
1	Slide	9224-21	221881
2	Front sight (height 5.7 mm)	9224-22(09)	222220
2.1	Front sight (height 5.9 mm)	9224-22(08)	222221
2.2	Front sight (height 6.1 mm)	9224-22(01)	221928
2.3	Front sight (height 6.3 mm)	9224-22(02)	221929
2.4	Front sight (height 6.5 mm)	9224-22(03)	221930
2.5	Front sight (height 6.7 mm)	9224-22(04)	221931
2.6	Front sight (height 6.9 mm)	9224-22(05)	221932
3	Drop safety catch	9224-28	221874
4	Elbow spring	9224-20.06	221899 228322
5	Extractor	9224-20.09	221888
6	Pressure pin	9224-20.08	221892
7	Compression spring	9224-20.07	221896
8	Rear sight	9224-24	221893
9	Ring	9224-26.07	221889
10	Cylindrical pin	9224-26.09	221908
11	Compression spring	9224-26.05	221898
12	Compression spring	9224-26.03	221897
13	Firing pin	9224-26.01	221882
14	Bush	9224-20.05	221883
15	Retaining pin	3 x 12 DIN 7344	928333
16	Clamping pin	9225-30.03	222478
17	Compression pin	9224-20.03	221895
18	Retaining pin	DIN 1481 - 1 x 6 -	
19	Piston	9225-30.01	222479
20	Elbow spring	9224-11.08	221877
21	Trigger	9224-11.07	221854
22	Cylindrical pin	9224-11.04	221880
23	Sear	9224-11.05	222282
24	Sear control lever	9224-11.06	221857
25	Slide catch lever	9224-11.21	221860
26	Transmission lever, compl.	9224-18	221916
27	Spring	9224-11.18	221876
28	Elbow spring	9224-11.20	221873
29	Locking pin	9224-11.13	221890
30	Retaining pin	1,5 x 8 DIN 1481	971919
31	Slide retaining catch	9224-11.01	221858
32	Compression spring	9224-11.02	221871
33	Cylindrical head screw	M 4 x 5 Ko DIN 85	929480
34	Recoil spring	9224-11.26	221870
35	Receiver with barrel	9224-14	221925
36	Squeeze cocker	9224-11.17	221862
37	Drag lever	9224-11.16	221856
38	Rocker	9224-11.12	221864
39	Retaining pin	3 x 10 DIN 1481	922606
40	Stop	9224-11.09	222186
41	Cocking latch	9224-11.10	221863
42	Compression spring	9224-11.11	221872
43	Elbow spring	9224-11.15	221875
44	Grip shell, left	9224-17	222468
45	Grip shell, right	9224-19	222467
46	Magazine catch	9224-11.28	222465
47	Magazine housing	9224-50.01	221902
48	Follower	9224-50.03	221904
49	Follower spring	9224-50.05	221905
50	Locking plate	9224-50.07	221869
51	Magazine floor plate	9224-50.09	221903

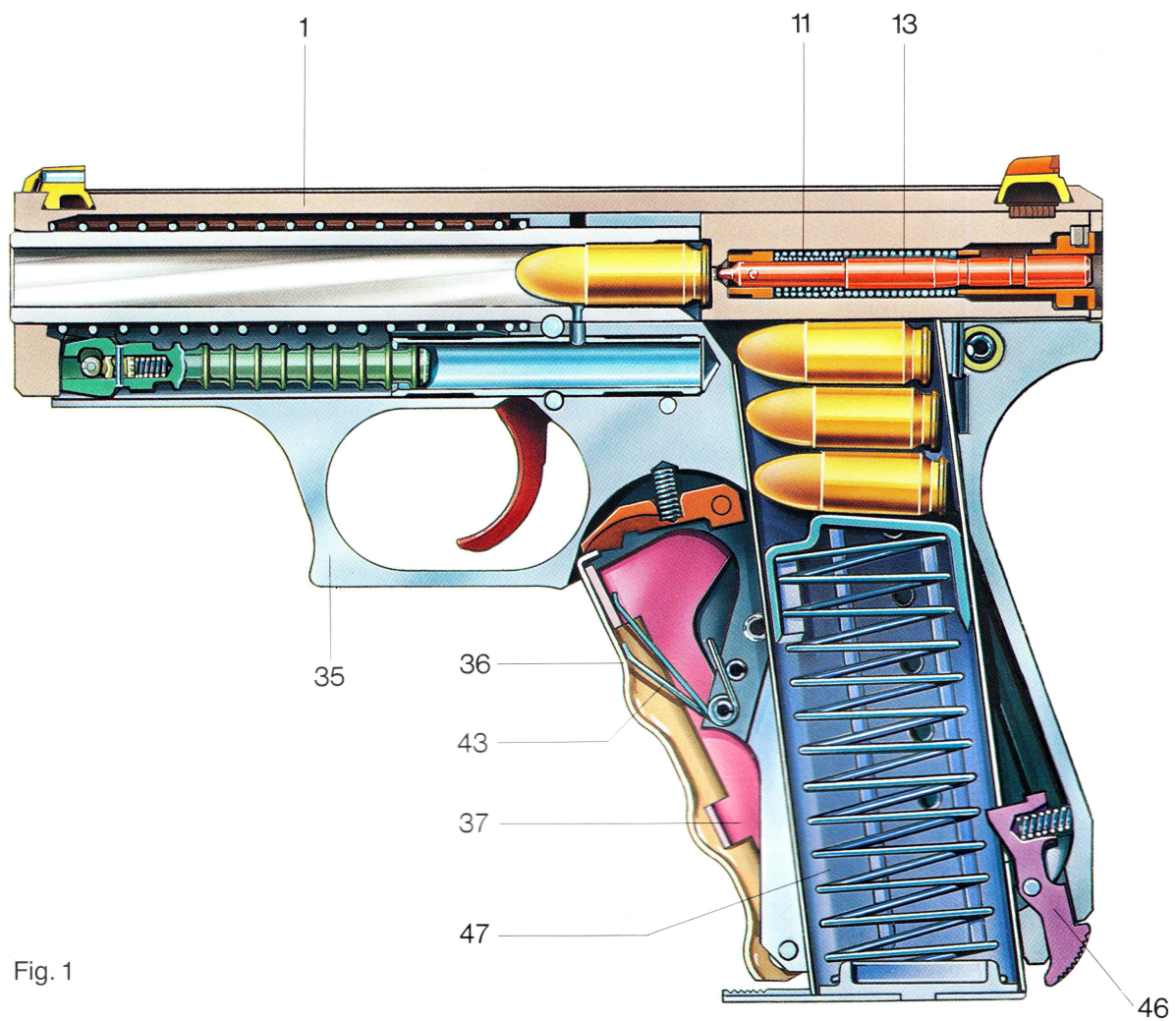


Fig. 1

Pistol loaded and uncocked (Fig. 1).

The magazine (47) is fitted and the magazine catch (46) is engaged.

There is a round in the chamber.

The slide (1) is closed and touching the base of the cartridge.

Compression spring (11) holds the firing pin (13) in the rest position.

Elbow spring (43) presses the drag lever (37) and the squeeze cocker (36) forward in the rest position.



Fig. 2

Pistol loaded and uncocked (Fig. 2).

The transmission lever (26) – which is pivoted in the drag lever (37) – is pushed up by spring (27), and is in contact with the receiver positioned in front of the firing pin cocking pawl.

The firing pin (13) is rendered safe by the transmission lever (26) and the drop safety catch (3).

The sear (23) is held against the sear control lever (24) by the pressure of elbow spring (20).

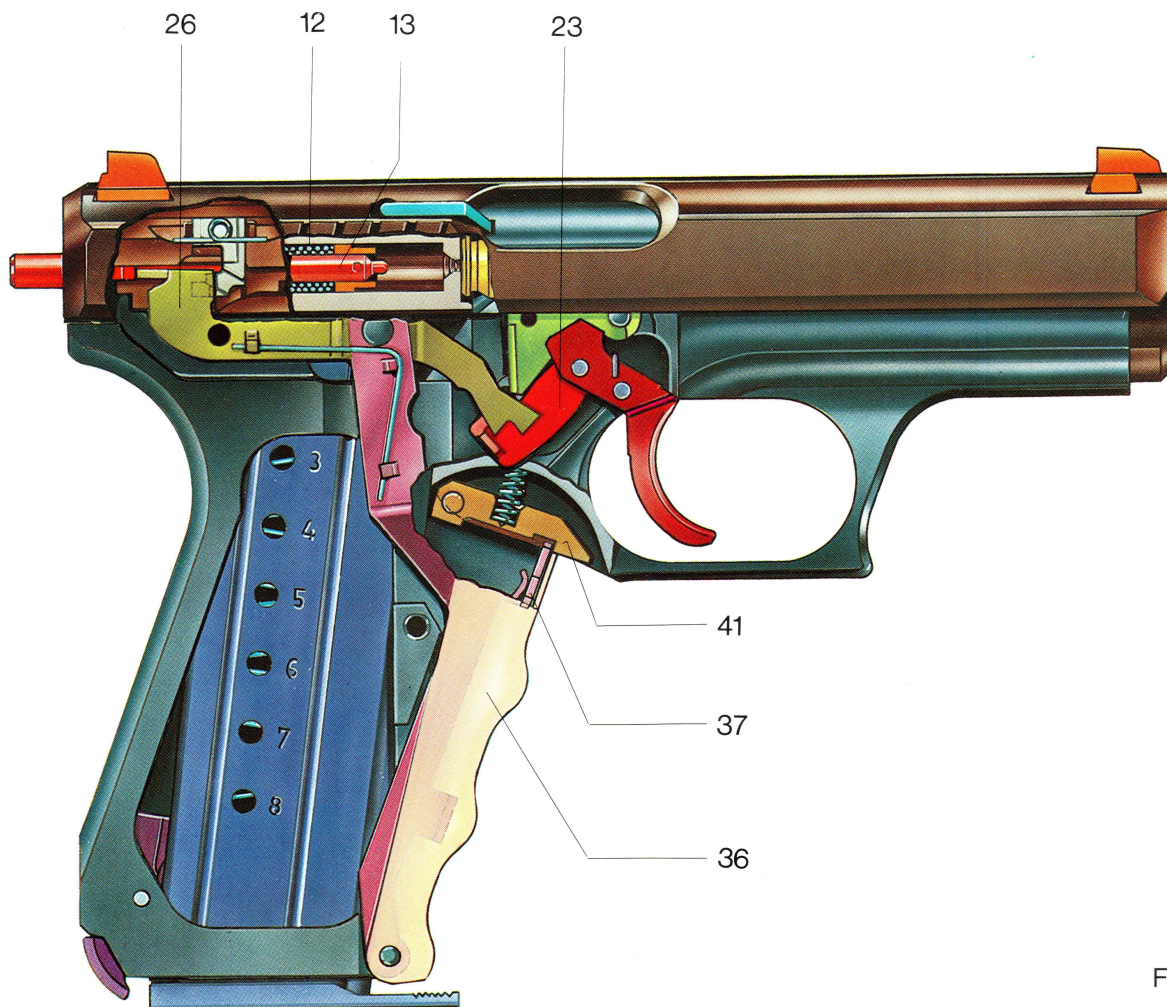


Fig. 3

Pistol cocked (Fig. 3).

The pistol is loaded and cocked.

The drag lever (37) is pressed back with squeeze cocker (36). Cocking latch (41) is engaged and holds the drag lever (37) in place.

The transmission lever (26) is moved back at the same time as the drag lever, and tensions the firing pin (13) via compression spring (12).

When doing so the front arm of the transmission lever (26) lies in front of the release edge of the sear (23).

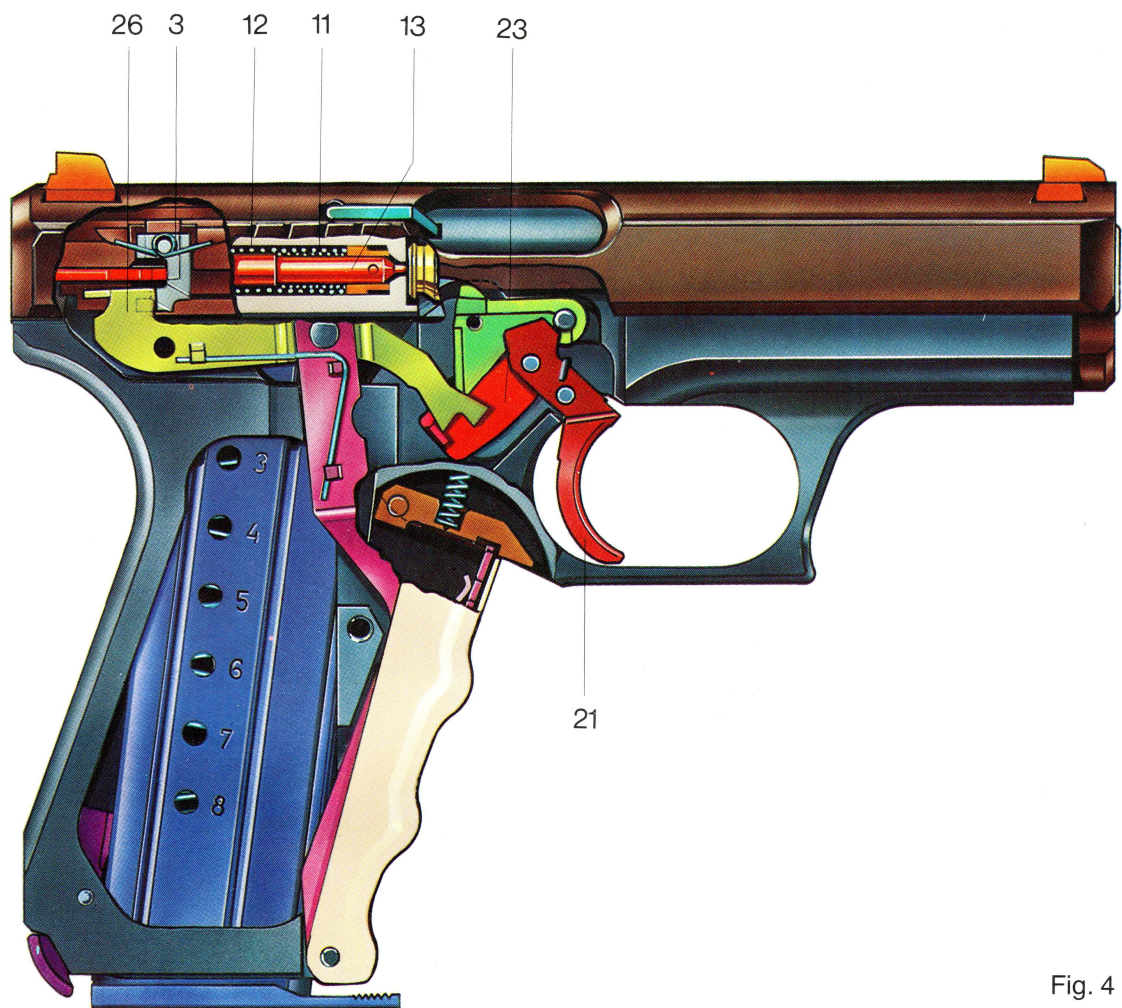


Fig. 4

Pistol fired (Fig. 4).

The trigger (21) is to the rear. The sear (23) has pivoted the transmission lever (26) clear of the cocking pawl on the firing pin, and at the same time pulled down the drop safety catch (3).

Under the action of spring (12) the firing pin (13) is accelerated forwards, and strikes the detonation cap in the base of the cartridge.

Compression spring (11) returns the firing pin (13) to its rest position.

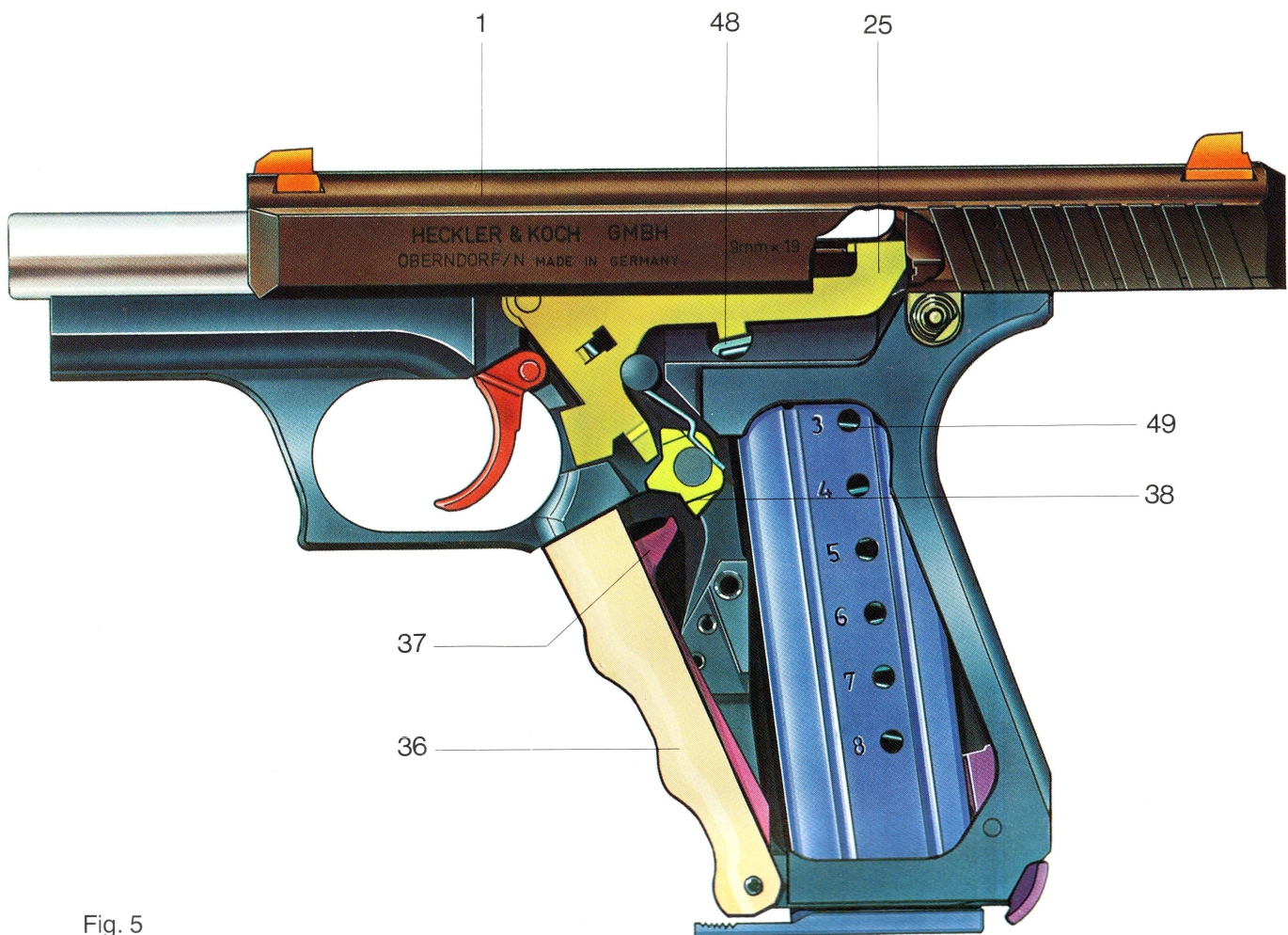


Fig. 5

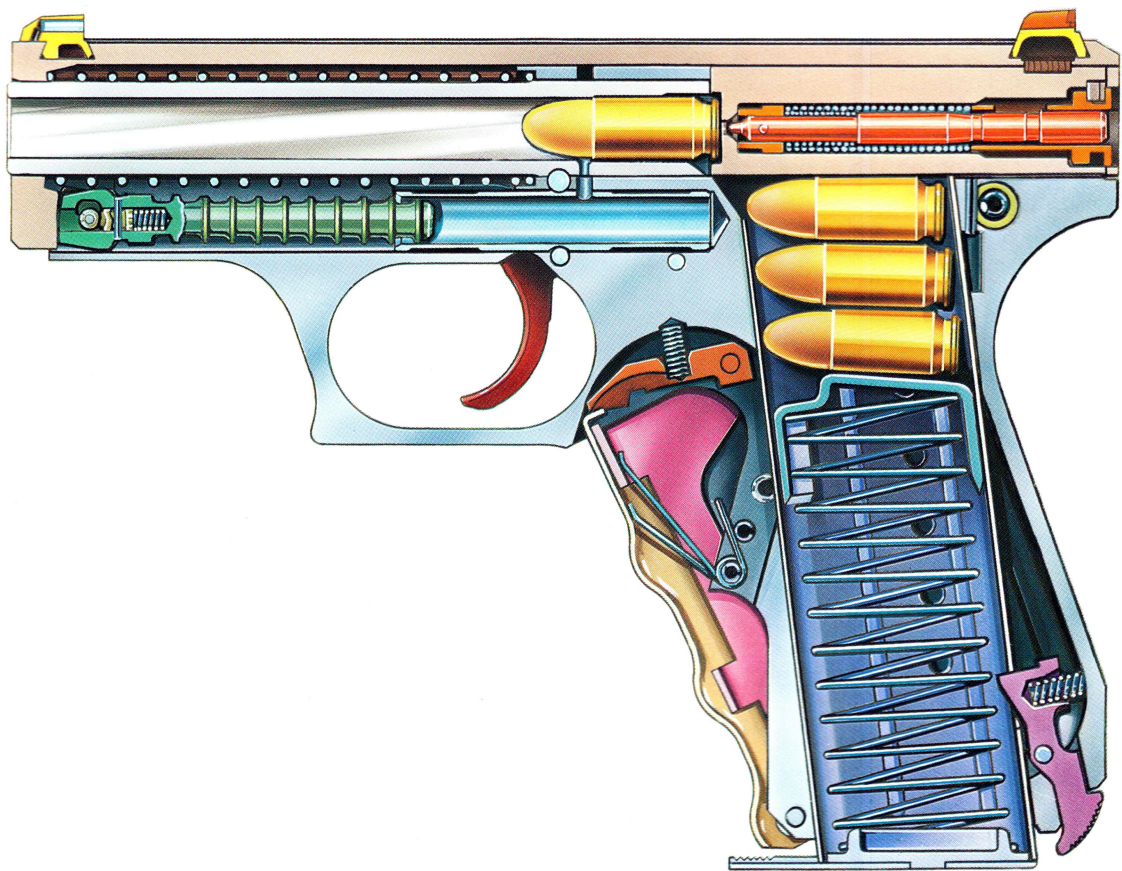
Pistol after firing the last round (Fig. 5).

After the last round has been fired, the magazine follower (48) pushes up the slide catch (25) under the action of the follower spring (49). The slide (1) is held in the rear position by the slide catch.

Closing the pistol by means of the squeeze cocker:

When the squeeze cocker (36) is pulled back the rocker (38) is rotated by the nose on the drag lever (37) so that the slide catch is pivoted downwards out of the hold-back position.

The slide (1) is pressed forwards by the action of the tensioned recoil spring, and the firing pin (13) is cocked again by the transmission lever (26).



Motions

The P7 is loaded, and there is a round in the chamber. The extractor claw is engaged in the extraction groove in the base of the round. The filled magazine is held in the magazine housing by the magazine catch. If the squeeze cocker is now operated, then at the same time the drag lever is moved to the rear together with the transmission lever, which is pivoted in it. After travelling approx. 1 mm the inwards inclined lever comes up against the cocking pawl on the firing pin. Continuing to press the squeeze cocker to the rear forces back the firing pin, cocking it at the same time. When the squeeze cocker is pressed all the way to the rear the notch in the cocking latch holds the drag lever.

In this position all that is needed is to hold the spring-loaded squeeze cocker. The rear, inwards inclined arm of the transmission lever lies over the shoulder of the drop safety catch; the front arm is in front of the release edge of the sear. The reinforced section of the sear control lever projects into the semi-circular recess in the slide. If the trigger is now squeezed the front arm of the transmission lever moves upwards, and its rear arm moves down together with the drop safety catch. The firing pin is released, and accelerates forward driven by the pressure of the main spring. The tip of the firing pin strikes the detonation cap in the base of the cartridge.

The charge is ignited producing gas which expands rapidly so driving the bullet up the barrel.

Immediately the bullet separates from the cartridge a small amount of powder gas is diverted through a borehole into the braking cylinder. The gas pressure thus introduced into this cylinder acts on the piston to slow down the rearwards motion of the slide. When the gas pressure subsides, the piston moves to the rear with the slide. As soon as the repeating action commences the sear control lever is pushed down onto the sear by the slide. This releases the front arm of the transmission lever.

Under the pressure of the elbow spring, the rear part of the transmission lever swivels up, and moves in front of the cocking lever pawl on the firing pin. At the same time the drop safety catch moves upwards preventing the firing pin from moving. The cartridge case is withdrawn and held by the extractor before being ejected by the slide catch (which simultaneously acts as ejector) just before the slide reaches its rearmost position.

The pressure on the follower spring pushes the next round into the path of the slide. The compressed recoil spring presses the slide to the front. As it moves forwards the lower edge of the recoil face presses the round out of the magazine, and positions it in the chamber. In the final phase of the slide's forward travel the firing pin is checked by the raised transmission lever, and cocked again.

Releasing the trigger swivels the sear and the sear control lever into the rest position. The pistol is again ready to fire.

After the last round has been fired the slide catch holds the slide in the rear position.

After removing the magazine there are two methods of closing the slide: Either

a) by releasing the squeeze cocker and pressing it again. This causes the nose of the drag lever to rotate the rocker so that the slide catch is swivelled downwards out of engagement. Under the action of the tensioned recoil spring the slide snaps forwards, and at the same time the firing pin is cocked.

or

b) the slide can also be released and closed by pulling it back a short distance.

Releasing the squeeze cocker will now decock the firing pin without any risk, and the weapon is automatically safed.

Note:

Firing by means of the squeeze cocker

Pull back the trigger, and the sear moves into the firing position. As the squeeze cocker is pressed the transmission lever carried in the drag lever is moved back at the same time. The transmission lever cocks the firing pin. Simultaneously the transmission lever moves against the release edge of the sear causing the lever to swivel out of the way of the cocking pawl on the firing pin. It also pulls down the drop safety catch. The firing pin is now accelerated forwards by the tensioned main spring, and strikes the detonation cap in the base of the cartridge.



P7, actual size

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