

MP9

OPERATOR MANUAL



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Related documents:


MP9-N Illustrated Parts Catalogue.....	PC-95256
MP9-N Service Manual	SM-MP9-EN


Abbreviations

POA:	Point of Aim
POI:	Point of Impact
MPI:	Mean Point of Impact

Definition

Left / right side:	Defined looking in firing direction.
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EYE PROTECTION MUST BE WORN!	
	SAFETY GOGGLES MUST BE WORN WHEN DISASSEMBLING AND REASSEMBLING THE GUN. PARTS CAN GET INTO THE EYES IF HANDLED INCORRECTLY.

EAR PROTECTION MUST BE WORN!	
	SUITABLE HEARING PROTECTION MUST ALWAYS BE WORN WHEN SHOOTING WITH A FIREARM.

1. General rules

READ MANUAL BEFORE USE.

1.1 Safety rules

1. Consider every weapon loaded until checked personally by the individual operator.
2. Always keep fingers off the trigger and outside the trigger guard until the sights are on target.
3. Always point the weapon in a safe direction.
4. Verify your target and the backstop.
5. Before firing always verify the serviceability and condition of both the weapon and ammunition.
6. Hearing and eye protection are mandatory.
7. Be sure to use NATO, SAAMI or CIP certified cartridges of correct caliber only.

SAFETY ADVICE!



Defects that can be traced back to the use of non NATO, SAAMI or CIP ammunition (especially reloaded cartridges) are not covered by the guarantee!

8. If a cartridge fails to ignite, keep the muzzle pointed in a safe direction and open the chamber only after a minimum of 30 seconds.
9. Live fire training should be carried out in open or well-ventilated areas to prevent excessive exposure to toxic gases.
10. Operate your weapon consciously and do not use excessive force.

1.2 Maintenance rules

1. The weapon is to be cleaned after each deployment or firing.
2. Any malfunctions are to be reported to the unit armorer or manufacturer.
3. The weapon is to be presented to the unit armorer for inspection after each mission or a minimum of once per year.

2. Technical specifications

2.1 Overview - MP9



2.2 General description

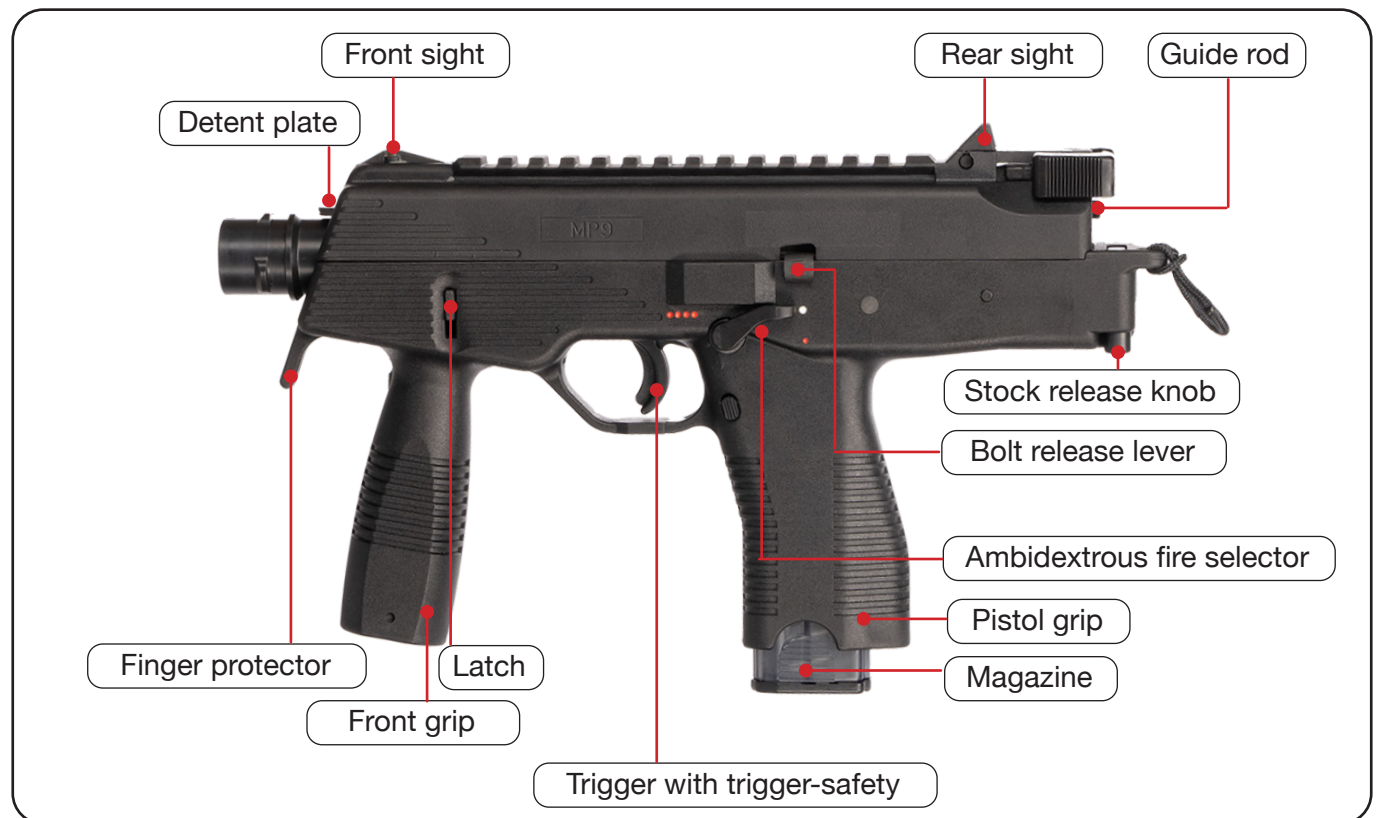
The MP9-N is a compact, lightweight submachine gun and the perfect tool for personal protection and defense. At the size and the weight of a pistol, the MP9-N is offering fire power and effective range of a rifle-sized submachine gun. Although being very small, the MP9-N is offering many interfaces to install today tactical accessories such as suppressors and electro-optical aiming devices.

Actually, the MP9-N is not only a weapon but a weapon family, including the training weapon MP9-FX for Simunition 9mm FX cartridges and the completely inert red MP9-M.

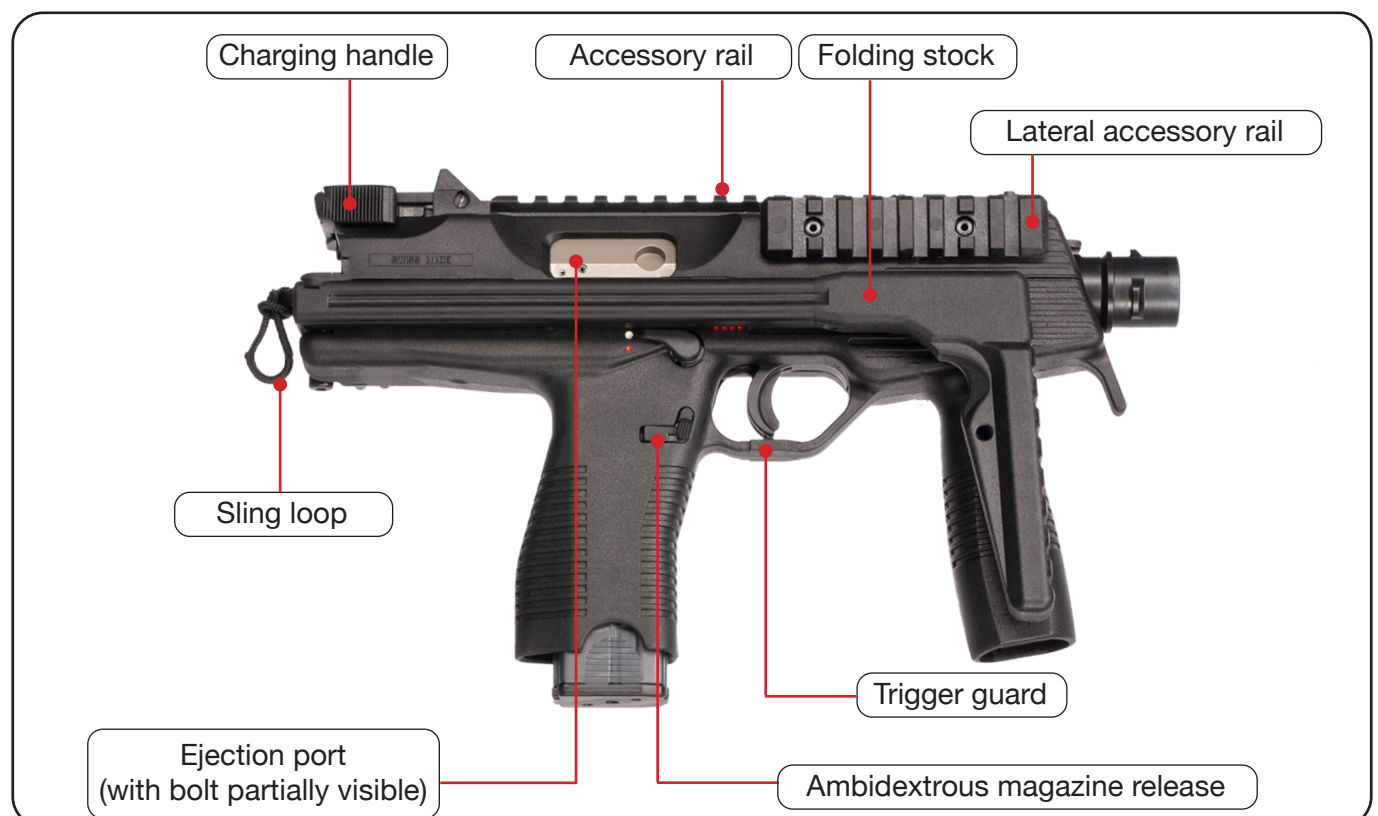
2.3 Nomenclature

2.3.1 Weapon complete

Left side

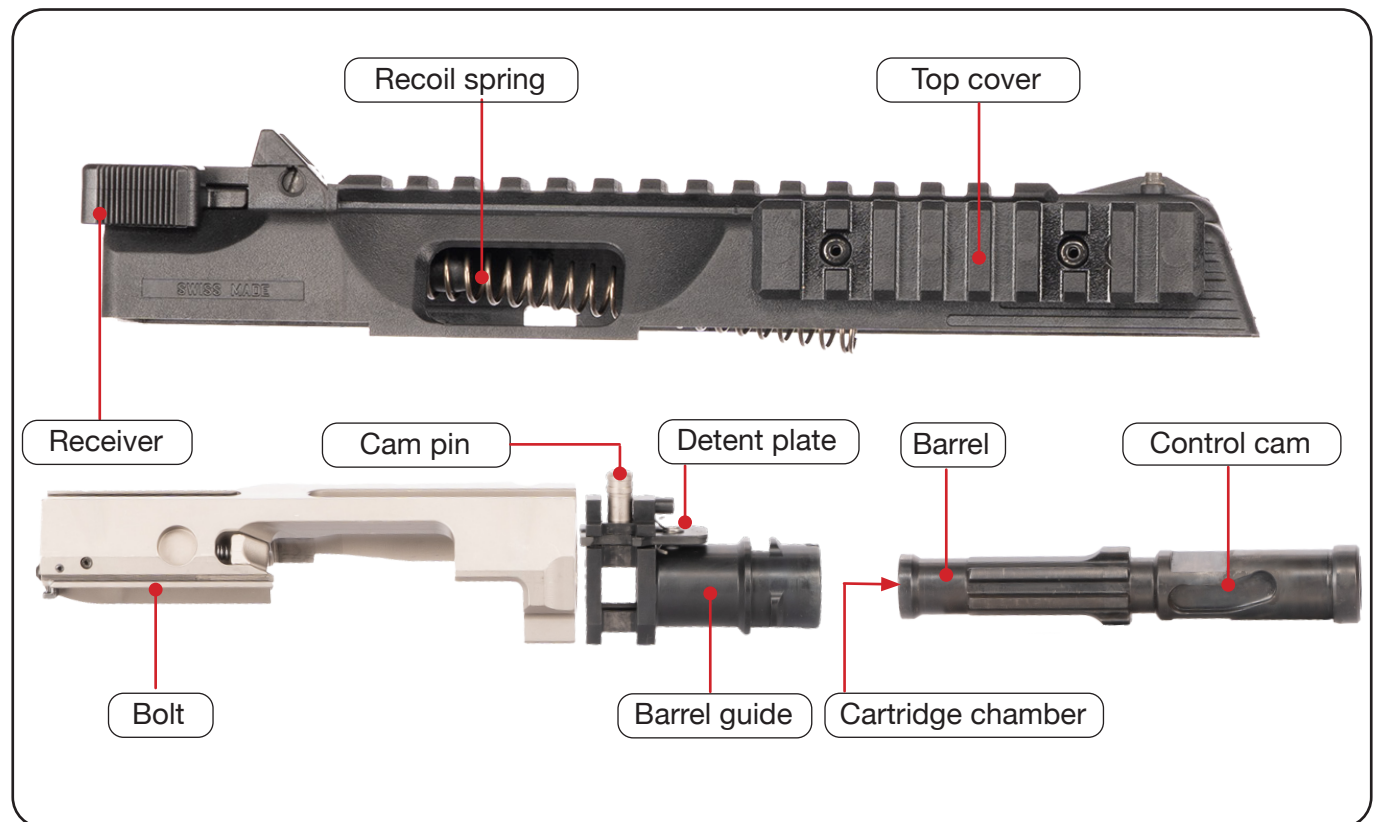


Right side

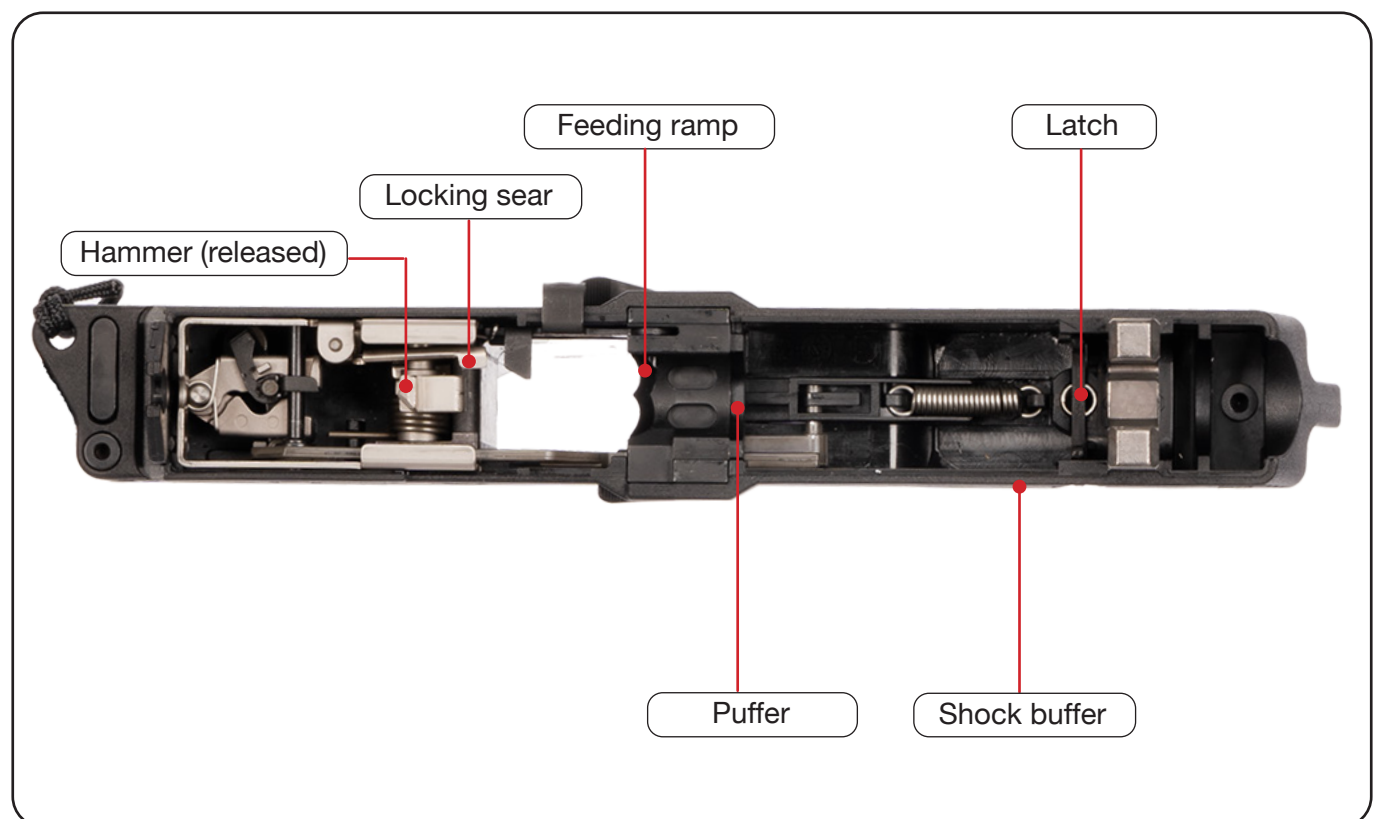


2.3.2 Weapon disassembled

Upper receiver



Lower receiver



2.4 Technical data

Designation	MP9
Caliber [mm]	9x19 NATO (370 m/s or 550 J with 124 grs FMJ)
Function	Blow back action with closed bolt and rotating barrel system Bolt remains open after last shot
Safety system	Manual safety Triple drop safety (acting on trigger, sear and firing pin)
Firing modes	Semi-automatic Full-automatic Ambidextrous fire selector
Firing rate (FA)	approx. 1100 rpm
MRBF	> 5000
Magazines	15, 20, 25 and 30 cartridges High-strength, translucent polymer
Sighting system	Aimpoint Micro T-1 reflex sight, quick detachable Mechanical emergency sight, fully adjustable
Mech. sight radius [mm]	190
Interfaces	STANAG 4694 accessory rails on top and right side
Length [mm]	523 (stock extended) 303 (stock closed)
Height [mm]	205 (with 15 round magazine) 275 (with 30 round magazine) (30 less with optical sight removed)
Width [mm]	45 (stock folded out) 56 (stock closed)
Barrel length [mm]	130
Weight [kg]	1.56 (without magazine) 1.44 (without optical sight)
Magazine weight [g]	240 15 cartridges loaded (NATO 124) 300 20 cartridges loaded (NATO 124) 370 25 cartridges loaded (NATO 124) 440 30 cartridges loaded (NATO 124)
Part number	BT-30104-N
NATO stock number	1005-17-122-0790

3. Handling and operator procedures

3.1 Clearing weapon

- Rotate the fire selector to «safe» position (see chapter 3.2 on page 9).
- Press the magazine retainer and pull the magazine downward out.

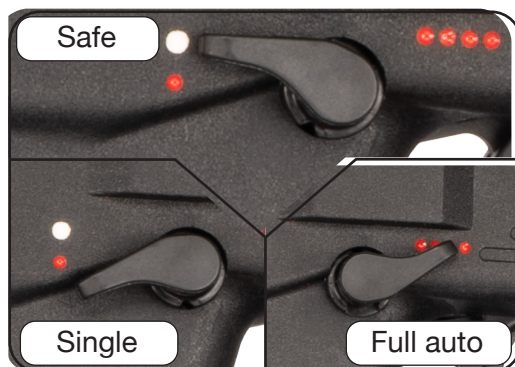


- Pull the charging handle completely to the rear and inspect the chamber visually to be clear.
- Lock the bolt in open position chapter “3.6 Bolt catch” on page 14.



3.2 Operating fire selector

- The positions of the fire selector are marked on both side of the weapon.
- Rotate the fire selector in order to engage the desired mode.



WHITE DOT = SAFE

RED DOT= SINGLE FIRE

RED LINE= FULL AUTOMATIC FIRE

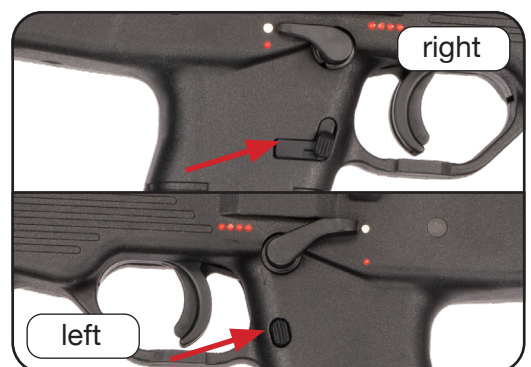
3.3 Magazine catch

3.3.1 Operating magazine catch

- a. Rotate the fire selector to «safe» position (see chapter „3.2 Operating fire selector“ on page 9).
- b. Press the magazine retainer and pull the magazine downward out.



- c. Magazine catch of the standard magazine on left and right side of the lower receiver.



3.4 Stock / Adapter

3.4.1 Close folding stock

- a. Grasp the weapon with the firing hand on the pistol grip.
- b. Push the locking knob with the non firing hand, and fold the stock.



- c. Fold in the Stock until it reaches the end position and locks audibly.



3.4.2 Open folding stock


- a. Grasp the weapon with the firing hand on the pistol grip.
- b. Grasp the folding stock with the non firing hand, and fold it out.



- c. Fold out the Stock until it reaches the end position and locks audibly.
- d. Use the non-firing hand to check the correct locking of the stock.



3.5 Sight adjustment

Note	
	Refer to the Aimpoint manual for visor adjustment when an Aimpoint sight is mounted.

Left and right corrections:

- Zeroing shots to the right or left of the point of aim is made by the windage adjustment screw at the right side of the Ghost Ring Sight with a no. 1 screwdriver.
- One full turn of the sight adjustment screw in a clockwise direction changes the point of impact to the left - therefore turn in the clockwise direction when the point of impact is right off.



Distance [m]	one full turn	
	elevation [mm]	windage [mm]
10	36	66
15	54	99
20	72	132
25	90	165
30	108	198
50	180	330

Up and Down Corrections:

- c. To zero shots above and below the point of aim disassemble the weapon (see chapter 4.1 on page 17).
- d. The zeroing of a shot above or below of the point of aim is done by the elevation adjustment screw on the inner side of the top cover group with a no. 0 screwdriver.

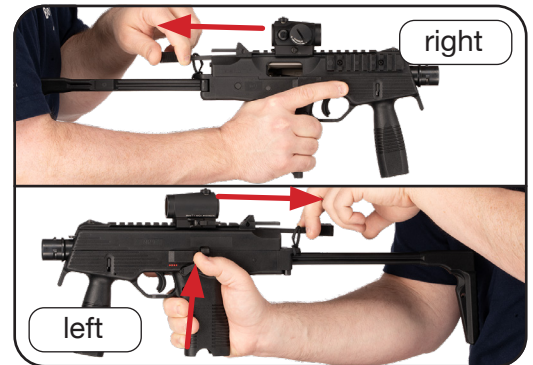


- e. One full turn of the elevation adjustment screw in a clockwise direction changes the point of impact as in table 3.5b downward – therefore turn in a clockwise direction for a high shot.
- f. After executing this correction, reassemble the weapon (see chapter 4.1.3 on page 19) and do the function check (see chapter 5 on page 26).

3.6 Bolt catch

3.6.1 Holding bolt in open position

- Remove magazine (see chapter 3.3 on page 10).
- Grab the charging handle and pull the bolt to the rearmost position and hold it there.
- Push the bolt catch upwards.
- Allow the bolt to travel forward until stopped and held by the bolt catch.
- Push the charging handle to its foremost position.



3.6.2 Closing bolt

- Push the external bolt catch (available on left and right weapons side) until the bolt snaps into closed position.



3.7 Loading and unloading weapon

3.7.1 Loading weapon

- Fill the cartridges one by one into the magazine.
 - Grab the weapon and engage safety (see chapter 4.2 on page 22).
 - Insert magazine.
 - Pull the magazine slightly downward to verify it is locked in place.
-
- If the bolt is open, push the external bolt catch downwards.
 - If the bolt is closed, vigorously pull back the charging handle to its rearmost position and allow the bolt to snap forward under its own power.



- g. Slightly pull the bolt rearward until you can spot the brass of the chambered cartridge in order to verify the weapon is loaded.



3.7.2 Unloading weapon during firing sessions

- a. Engage safety (see chapter „3.2 Operating fire selector“ on page 9).
- b. Remove the magazine (see chapter 3.3 on page 10).
- c. Pull the charging handle rearward and observe the chambered cartridge being ejected.
- d. Hold the bolt in open position using the bolt catch (see chapter 3.6.1 on page 14) and make a visual check to see if the chamber is empty.
- e. Recover the loose cartridge.

3.7.3 Unloading weapon for storage

- a. Unload the weapon (see chapter 3.7.2 on page 15).
- b. Close the bolt (see chapter 3.6.2 on page 14).
- c. Disengage safety (see chapter 4.2 on page 22).
- d. Point the weapon into a safe direction and pull the trigger - the hammer strikes audibly.
- e. Engage safety (see chapter 4.2 on page 22).
- f. Lock the bolt to the rear (see chapter „3.6.1 Holding bolt in open position“ on page 14).
- g. Insert the “Safety-Flag”.
- h. Escort the bolt, with insertet safety flag, to the front.



3.8 Firing the MP9

SAFETY ADVICE!



Refer to chapter “1.1 Safety rules” on page 4

- Engage iron sights (see chapter 3.5 on page 12) or use Aimpoint.
- Load the weapon (see chapter 3.7.1 on page 14).
- Apply a proper firing position.
- Disengage Safety (see chapter 4.2 on page 22).
- Pull the trigger until the shot is released.



Advice



Refer to chapter “5. Funktion check” on page 26

SAFETY ADVICE!



Make sure that you fully wrap around the front grip and that your hand does not reach in front of the finger stop.



4. Basic disassembly, cleaning and assembly

CAUTION!



When the weapon is disassembled, do not operate the trigger.

4.1 Field disassembly and maintenance

4.1.1 Field disassembly

- Unload the weapon - the weapon is now unloaded and cocked.
- Open the folding stock.
- Press the latch downward and slide the bolt into foremost position.



- Press the guide rod and gently lift the top cover on.



- Press the detent plate and remove top cover with barrel assembly upward in a straight movement.

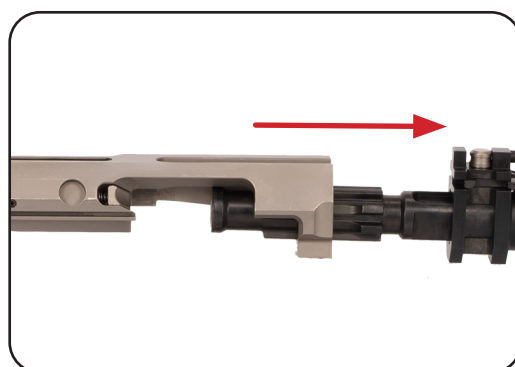


- f. With light pressure push the bolt and barrel assembly to the rear of the top cover and lift them out.



- g. Hold barrel assembly and slowly separate from the bolt, until barrel and bolt are in two pieces.

Now the top cover, the receiver, the barrel assembly and the bolt are separated and ready for cleaning.



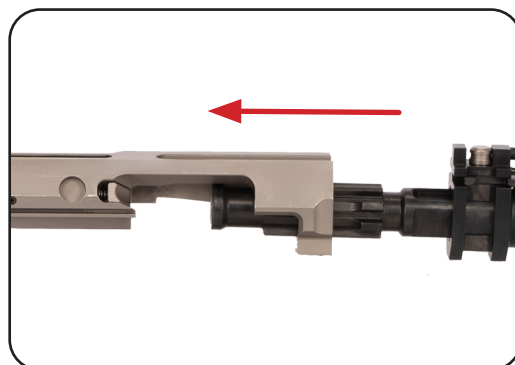
4.1.2 Cleaning

- h. Use a copper brush to clean the barrel.
- i. In case of strong carbon build up in the barrel guide, proceed full disassembly (see chapter „4.2 Full disassembly and lubrication“ on page 22).
- j. Clean carbon off the bolt with a copper brush. Wipe all metal surfaces with oily rag.
- k. Separate the recoil spring from the guide rod and wipe with an oily rag.
- l. Wipe the feeding ramp completely free of dirt with an oily rag.
- m. Brush with a nylon brush all exposed surfaces and pay particular attention to the sights to ensure these are free of dirt.

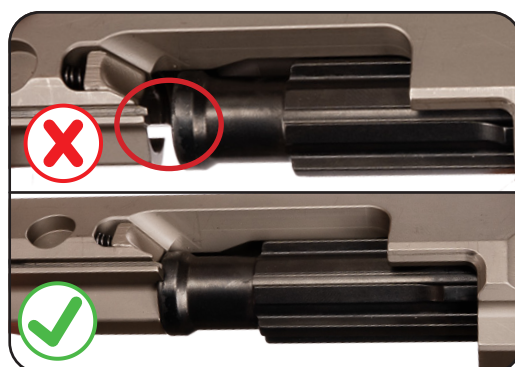


4.1.3 Reassembly

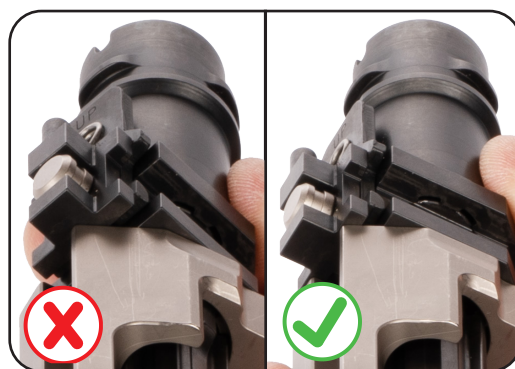
n. Push the barrel into the bolt.



o. Push the barrel into the bolt all the way to the stop until the barrel and bolt face are in contact.



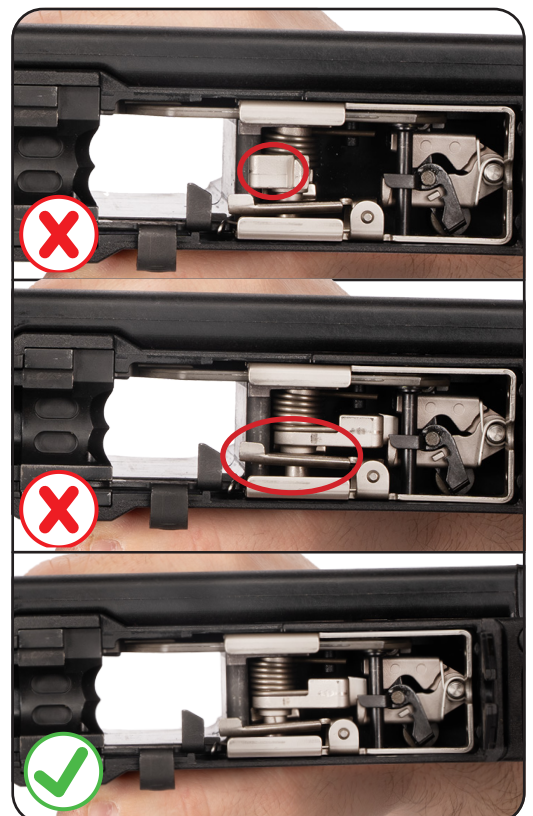
p. Rotate the barrel guide upwards that the side surfaces align with the bolt.



- q. Set the bolt and barrel assembly onto the recoil spring, push it to the rear of the top cover and slide it all the way up
- » The detent plate should sit against the top cover.
 - » The lug of the barrel guide should sit in the hole of the top cover.



- r. Check hammer to be cocked and locking sear to be in left position. If hammer or sear are in wrong position, push into correct.



- s. Put assembled top cover in a straight line motion on the receiver (reversal of 4.1e) while pushing the guide rod inside.
- » The top cover should go all the way onto the receiver and snap audibly in place.



- t. Pull the bolt by the charging handle lightly to the rear, until plate moves into the upper position.



- u. Perform function check in accordance with paragraph 5.

4.2 Full disassembly and lubrication

CAUTION!



The full disassembly releases the Cam pin. Loosening it makes the weapon useless!

4.2.1 Full disassembly

- a. Follow the steps in accordance with section 4.1.1
- b. Push the detent plate and pull the cam pin upwards out of the barrel guide.



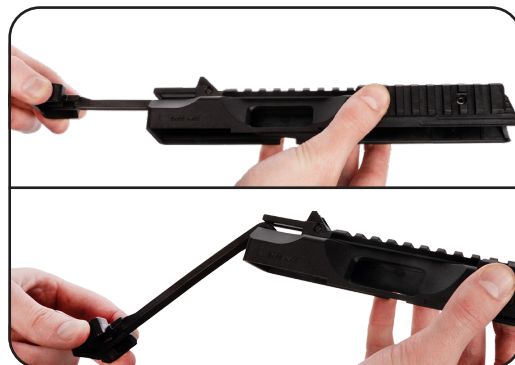
- c. Draw the barrel forward from the barrel guide.



- d. Pull and separate the recoil spring and guide rod from the top cover.

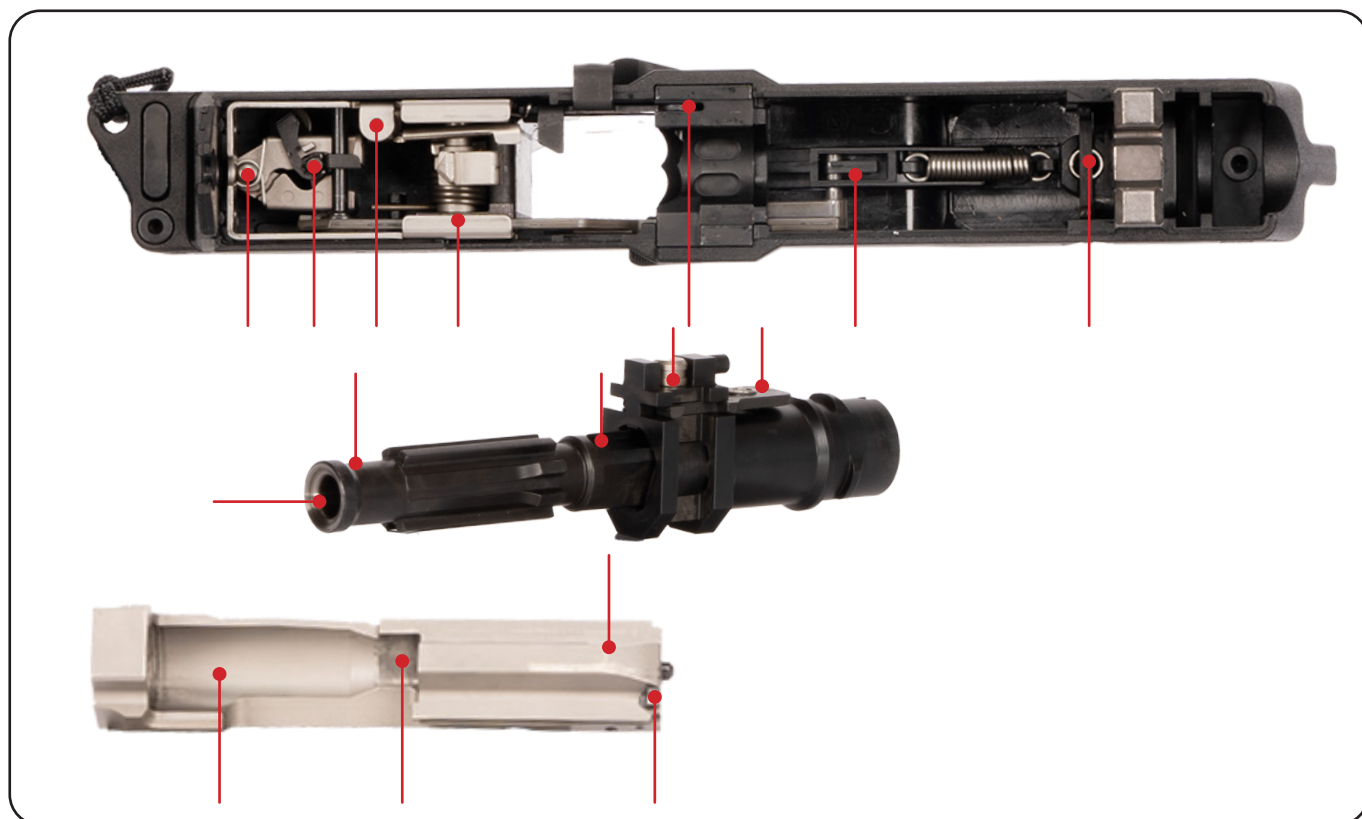
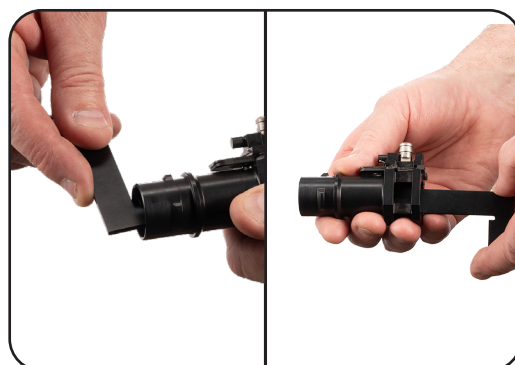


- e. Draw back the charging handle to the rear and separate it from the top cover.



4.2.2 Maintenance

- f. Clean the barrel in accordance with paragraph 4.1.2.
- g. Clean thoroughly the carbon from the inside of the barrel guide with the multi-purpose tool. Apply oil to the areas of strong build up to break down the carbon.
- h. Wipe all metal surfaces with an oily rag.
- i. Inspect all visible surfaces for crack or defect and clean with a nylon brush clean.
- j. Apply one drop of oil to the designated individual points .



4.2.3 Reassembly

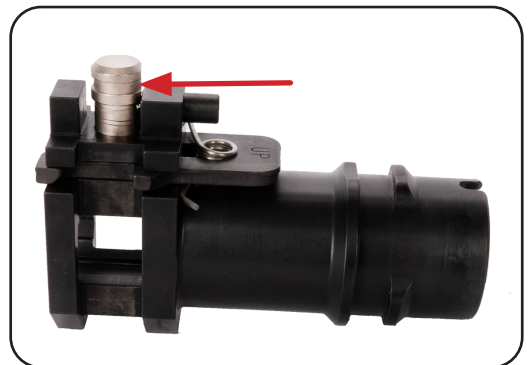
- k. Insert the charging handle from the back into the upper receiver and push it all the way in.



- l. Insert the recoil spring and recoil spring guide into the upper receiver.



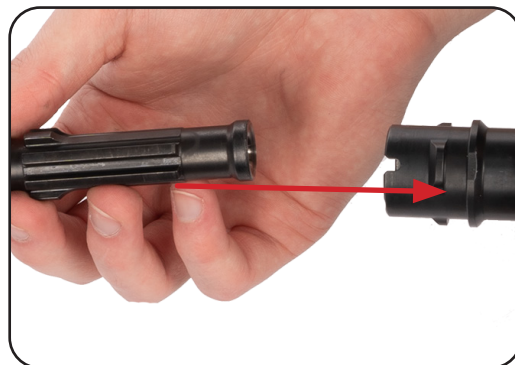
- m. Insert the cam pin into the barrel guide.
 - » Make sure the flat surface on the cam pin faces forwards.



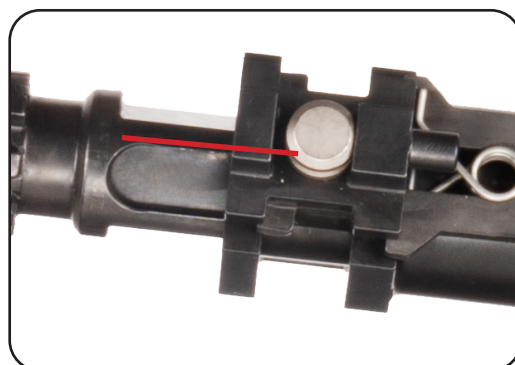
- n. While pushing on the detente plate push in the cam pin half way.



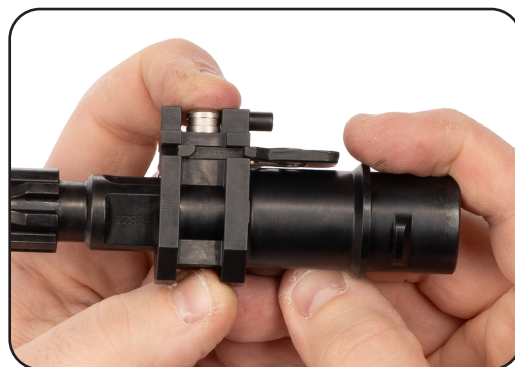
- o. Insert the barrel into the front of barrel guide.



- p. Turn the barrel in the barrel guide so that the left side of the control can lines up with the cam pin.



- q. Push in the cam pin until the detente plate snaps into place.
- r. Continue on as outlined in accordance with paragraph 4.1.3.



5. Function check

- a. Check the folding stock that it properly closes.
- b. Check the folding stock that it locks open securely.
- c. Insert an empty magazine and pull downward => the magazine release must hold securely.
- d. Leave the empty magazine in the gun, pull the charging handle to the very rear and release => bolt release lever must hold the bolt open.
- e. Push left magazine release button => magazine must become loose.
- f. Insert same magazine again until retained and push right magazine release button => magazine must become loose.
- g. Remove magazine and press bolt release => bolt must ride forward.

Steps c to g must be performed with each individual magazine.

- h. Rotate selector to safe position and press the trigger => hammer shall not strike.
- i. Rotate fire selector on single-shot and press the trigger => hammer must audibly strike.
- j. Keep the trigger pressed, pull the charging handle completely to the rear and slowly return it to the forward position. Release the trigger and press => hammer again must audibly strike.
- k. Rotate fire selector to the fully automatic position, pull the charging handle to the rear and slowly return it to the forward position. Press the trigger => hammer must audibly strike.
- l. Keep the trigger pressed, pull the charging handle to the rear and slowly return it to the forward position => hammer must audibly strike as soon as the bolt reaches the foremost position.
- m. Check sighting devices for proper function.

In case of any failure, disassemble weapon according to the following procedures and inspect for proper assembly. Adjust or replace failing part.

6. Malfunctions and immediate action

6.1 Malfunction 1


Hammer strike does not fire a shot. Measures:

1. Strike the bottom of the magazine with the palm of the support hand.
2. Pull the charging handle completely to the rear to and let it ride forward.
3. Inspect ejected cartridge later.

6.2 Malfunction 2

Pressing the trigger does not make strike the hammer. Measures:

1. Remove the magazine and inspect it individually later.
2. Pull the charging handle to the rear and verify that there are no more cartridges and/or cases in the chamber.
3. Insert a fresh magazine into the pistol grip until hearing the sound of the magazine release engaging.
4. Pull the magazine downward to assure it is firmly seated.
5. Pull the charging handle to the rear and allow the bolt to slam forward under it's own power.


Note	
	Heavy carbon build up can induce the bolt can jam shut. By means of placing a case or cartridge in the small round whole in the bolt can it be forced open again.





7. Accessories

7.1 Sound suppressor


Ammunition	w/o suppressor	w/ suppressor	Sound reduction
9x19 Standard	163 dB A	133 dB A	30 dB A
9x19 Subsonic	160 dB A	130 dB A	30 dB A

Picture	Art.-No.	Type	Description
	B&T SD-988400	APC9/MP9/TP9	B&T QD suppressor


7.2 Magazines

Picture	Art.-No.	Type	Description
	BT-30183 BT-30298 BT-30296 BT-30209	APC MP9 TP9	Magazine 30 rounds Magazine 25 rounds Magazine 20 rounds Magazine 15 rounds
	BT-231229 BT-30436	APC9 MP9 TP9	Magazine loader


7.3 Flashlights

Picture	Art.-No.	Description
	BT-WMLX-B-W-L-GEN3	B&T Weapon Mounted Light GEN-3





7.4 Sights

Pos.	Item no.	Description
	AP-200691	Aimpoint® sight ACRO P-2 3.5 MOA black

7.5 Brass catcher

Picture	Art.-No.	Description
	BT-22362	B&T brass catcher QD/QO polymer

7.6 Maintenance

Picture	Art.-No.	Type	Description
	SCT-GTS-Grease		SchleTek GTS-Grease
	SCT-002		SchleTek 2 in 1 Gun-Tuning 200ml (Liquid)
	SC-99B/6		Cleaning rod extension
	SC-TR/P_9_M5 SC-TR/P_45_M5	APC9 MP9 TP9	Cleaning kit

8. Warranty statement

Warranty claims on behalf of the Client are to be explicitly declared as such. During the legal warranty period, B&T provides warranty cover solely for defects that arise as a result of faulty materials, construction errors or poor workmanship. If a warranty claim is justified, B&T will, at its own discretion, either repair or replace the defective good. Costs incurred in transporting the defective good to B&T are borne by the Client. Spare parts fitted and replaced become the property of B&T.

Inasmuch as is legally permitted, any other liability of B&T is excluded, in particular liability for damages arising either directly or indirectly from the delivered good itself, from its use or from its defects.

Merchandise is covered by the warranty provisions of the manufacturer. Parts that are naturally subject to wear and tear, damage arising from insufficient maintenance work, noncompliance with operating regulations and cases of force majeure are all excluded from warranty cover. Warranty claims lapse if the Client itself or third parties alter or repair the delivered good without the prior written consent of B&T. All product specifications are subject to change without prior notice. Published data are mean values and therefore not suitable acceptance criteria.

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