

MESSERSCHMITT



PCC

Bedienungsanleitung
Operator's Manual

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1 INTRODUCTION

The Messerschmitt PCC is based on a system which has already been in use for decades by militaries all over the world. Much has changed over the years, especially in the field of material development. For instance, a wide range of alloy components now makes it possible to produce stronger materials than ever before. That's why the upper and lower receiver of the Messerschmitt PCC are made of drop-forged 7075 T6 aluminum. This manufacturing process gives the material an uninterrupted grain structure, as opposed to receivers which are machined from solid.

The Messerschmitt PCC is a blowback-operated weapon. The following operator's manual gives the user an overview of the weapon's most important functions, handling, maintenance, cleaning and care.

1.1 WARNINGS AND SAFETY NOTIFICATIONS

WARNINGS



Danger to life when handling loaded firearms.

Only fire this weapon where permitted by law.

Always consider a firearm to be loaded as long as you have not conducted a safety inspection on the firearm yourself.

Never point the firearm at a person, even if the firearm is believed to be unloaded! Always keep the muzzle pointed in a safe direction, such as a bullet trap.

Conduct a safety check before using the firearm.

Only use ammunition which is approved according to CIP specifications, undamaged and free of dirt. Failure to observe this can lead to severe injuries or even death. Only use the firearm when it is in technically flawless condition.

WARNINGS



Read the operator's manual thoroughly before using the weapon.

Do not interchange locking mechanism parts from other rifles with one another. This could cause damage to the rifle and result in personal injury or even death.

Do not overheat the barrel of the PCC. Sustained shooting can lead to critical barrel temperatures. If you shoot rapidly and continuously, e.g. approx. 150 rounds in a very short time, temperatures may reach the so-called COOKOFF POINT. This can cause a cartridge in the chamber to ignite on its own (self-ignition). For this reason, you must let your firearm cool down as necessary. If you cannot remove the ammunition from the rifle, then keep the rifle pointed in a safe direction (bullet trap) for approx. 15 minutes and put it on safety. The rifle should then be cooled down so that it is possible to remove the ammunition.

Self-ignition is not possible at a sustained rate of fire of 20 to 25 rounds per minute.

If there are any liquids, dirt or particles in the barrel during shooting, it may cause the weapon to explode, leading to personal injury or even death.

Stop shooting immediately if you hear a changed sound or feel a difference in recoil. Open the bolt and remove the ammunition from the rifle. Then conduct a safety check on the weapon and make sure that there is no bullet or powder or other fouling in the barrel.

SAFETY NOTIFICATIONS



The operator's manual is part of the weapon.

Only persons who have completely read and understood the operator's manual should be allowed to use the weapon.

Before handing the weapon over or laying it down, check to make sure it is not loaded and keep the action open until it is loaded for use.

2 TECHNICAL DATA

CALIBER	9mm Luger (9 x 19)
MAGAZINE	10-round
TWIST	1:10



3 HANDLING AND MODE OF OPERATION

Safety check

Always conduct a safety check before you handle the weapon, before and after shooting as well as when loading the weapon and handing it over to other persons.

Always make sure the muzzle is pointing in a safe direction.

1. Set the weapon on safety
2. Remove the magazine from the weapon (if it is inserted). To do this press the magazine release button on the right or left side.
3. Pull back the charging handle and hold it in rear position
4. Look through the ejection port into the chamber to make sure that there is no cartridge in the chamber.




5. Then release the charging handle. The bolt will move forward.
6. Pull the trigger to release the hammer.
7. The weapon is now uncocked.



Safety

The PCC has an ambidextrous trigger safety, that can be engaged with the hammer cocked or uncocked.

Turn the safety lever to the horizontal position.  (Safety on). The safety shaft now blocks the trigger.



Operating sequence

The shot is fired when the trigger is pulled. Ignition of the gunpowder creates high gas pressure in the cartridge, which drives the bullet through the barrel. At the same time, the cartridge case and the bolt move backward.

The inertia of the bolt and the buffer spring limit the recoil velocity.

Only when the bullet has left the barrel, and thus the gas pressure in the barrel has abruptly reduced, the cartridge case and the bolt have moved back so far that the powder chamber of the cartridge case is no longer supported in the chamber.

This prevents a case rupture as a result of the initially high gas pressure.

The bolt and the cartridge case, held by the extractor claw, move further backwards against the force of the buffer spring. During the backward movement, the cartridge case is ejected from the side of the upper by the ejector and the hammer is cocked again by the recoiling bolt.

The backward movement ends when the bolt has transferred all its kinetic energy to the buffer spring, or the bolt or buffer hits the rear of buffer tube.

The bolt is then moved forward again by the force of the buffer spring. This removes the top cartridge from the magazine and feeds it into the chamber.

The gun is now ready to fire again.

Bolt catch

The MESSERSCHMITT PCC has an automatic bolt catch.

It is triggered by the magazine follower after the last shot is fired. To manually catch the bolt in the rear position, the bolt must be pulled all the way back with charging handle, and the bolt catch lever on the left side must be pressed at the bottom end, or the lever on the right side must be pushed up. To close the bolt, either press the bolt catch lever at the top end or push the lever on the right side down. Alternatively, you can pull the charging handle to the rear position and let it snap forward.

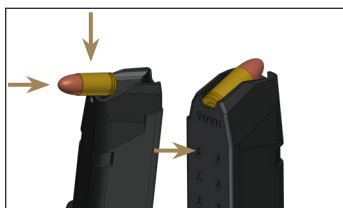


4 LOADING THE WEAPON

Loading the magazine

We recommend to use only original Glock double stack magazines gen4 or higher!

Grap the magazine in one hand and push down the magazine follower with your thumb. Take the cartridge in your other hand and push it under the magazine lips, bottom first, from the front. When the cartridge is held by the magazine lips lift your thumb and slide the cartridge all the way back. Continue loading by pushing down on the top cartridge with your thumb and sliding the next cartridge in from the front until it rests at the rear side of the magazine. Repeat the last steps until the magazine is fully loaded. The cartridges should be able to move without jamming. If the cartridges are jammed, you can correct the problem by lightly tapping the back of the magazine with the palm of your hand.



Inserting the magazine


1. Turn the safety lever horizontal (Safety on)
2. Insert a full magazine into the magazine well.
3. Push the magazine into end position until it audibly clicks into place.
4. Make sure that the magazine is properly engaged



Chambering a round and firing

1. Hold the weapon firmly with one hand on the grip. The index finger is outside the trigger guard.
2. Pull the charging handle all the way back and let it snap forward.



3. Set safety lever to position  (fire)



4. Pulling the trigger will fire the shot.

SAFETY NOTIFICATIONS



Make sure that the magazine is not dented, dirty, or damaged.

Only chamber a round immediately before shooting.

First, perform a safety check to make sure the firearm is not loaded

Check if the elements of the silencer are completely screwed together

Check that the silencer is screwed onto the barrel hand-tight.

Reloading

1. Put the weapon on safety
2. After the last cartridge has been fired and the empty case has been pulled out of the chamber by the extractor, the bolt is held in the rearmost position by the bolt catch
3. Remove the magazine



4. Make sure that the chamber is empty (see Point Safety check).
5. Insert a loaded magazine into weapon
6. Make sure that the magazine is fully engaged
7. Press the bolt catch lever to release the bolt or pull back the charging handle and let it snap forward.



1. The weapon is now fully loaded

Unloading

1. Put weapon on safety
2. Press magazine release button and remove magazine
3. Pull the charging handle all the way back (if it is not being held by the bolt catch) to remove the cartridge from the chamber.
4. Check if the cartridge chamber is empty (see Point Safety check)
5. Close bolt, take weapon off safety and dry fire in a safe direction



5 DISASSEMBLING THE WEAPON

SAFETY NOTIFICATIONS



Make sure that the weapon is unloaded and on safety during disassembling and cleaning
(see *Safety check*)

Bolt must be locked in the front position for weapon disassembling

There is no need to remove the extractor and thus the bolt guide for regular cleaning.

Disassembling the upper and lower receiver

1. Use your thumb or the safety flag to push out the take down pin from left to right until it is in the end position.
3. Remove the upper receiver from the lower receiver.



2. Use your thumb or the safety flag to push out the pivot pin from left to right until it is in the end position



Removing the bolt

1. Pull the charging handle backwards to open the bolt.



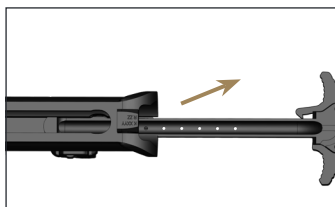
WARNINGS



Pushing out the extractor pin from top to bottom will damage pin and bolt

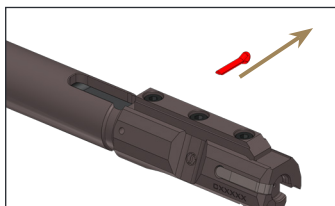


3. Pull the charging handle back to the recess of the upper receiver and remove it upwards

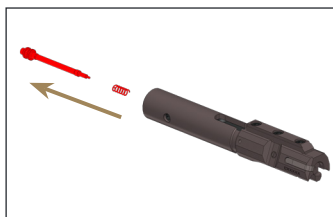


Disassembling the bolt

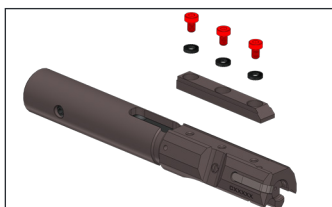
1. Pull out the firing pin retaining pin to the left side or push it out with a drift punch.



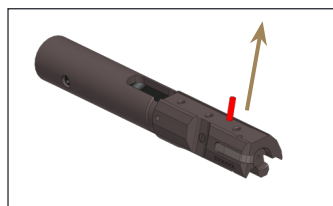
2. Remove firing pin and firing pin spring to the rear from the bolt



3. Loosen screws and remove lock washers to remove the guide piece



4. Push the extractor pin out of the bolt from the bottom to the top using a drift punch



Disassembling the lower receiver

1. Push the buffer retaining pin down (make sure that the hammer is cocked, otherwise the buffer and buffer spring cannot be removed)

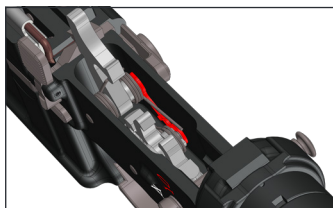


2. Remove buffer and buffer spring

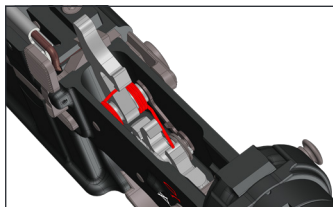


Removing the trigger group assembly

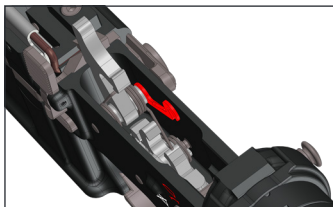
1. The locking plate must be removed before removing hammer.



2. Place the right leg of the hammer trigger spring on the disconnector



3. Turn the locking plate upwards and then pull it out. Afterwards the hammer and trigger pins can be pushed out. Now hammer and trigger can be removed upwards.



Removing the front handguard

1. Loosen the screws counter-clockwise with the supplied Allen key. (Remove screws)



2. Remove the handguard forward over the barrel



SAFETY NOTIFICATIONS



There is no need to remove the handguard and especially the trigger group assembly for regular cleaning and inspection: Improper handling during (dis)assembly may cause damage and impair the safety of the rifle.

Before removing hammer and trigger the locking plate must be removed. Pushing out the hammer and trigger pins without removing the locking plate leads to damage!

6 ASSEMBLY OF THE PCC

Assembling the lower receiver

1. Cock the hammer and put the weapon on safety

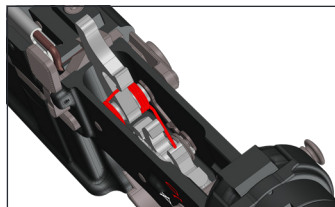


2. Insert buffer into buffer spring and slide them together into the buffer tube until it is held by the buffer retainer pin (make sure to align the buffer so that one of the three straight surfaces on the buffer is facing downward)

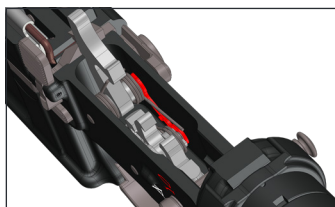
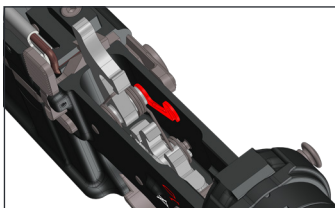


Installing the trigger group

1. Insert trigger and hammer. Align them in the lower receiver and push in the hammer and trigger pins flush. Make sure the notch of the pins is on the right side.
2. Place the right leg of the hammer spring on the disconnecter.



3. Insert the locking plate into the notch of the hammer pin and rotate it down so that it engages the notch of the trigger pin, too. Place the right leg of the hammer spring on the lug of the locking plate.



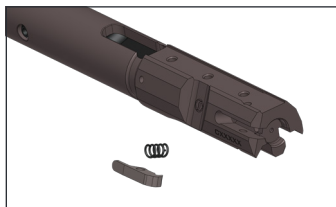
SAFETY NOTIFICATIONS



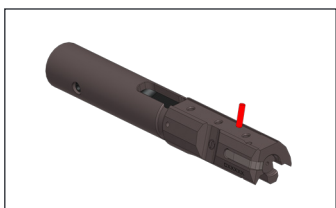
To check the correct seating of the firing pin retaining pin, hold the bolt upwards. The firing pin must not fall out.

Assembling the bolt carrier group

1. Insert extractor and extractor spring into the



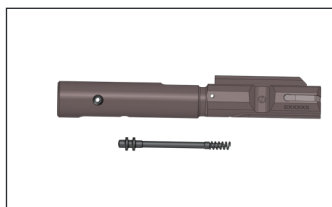
bolt .



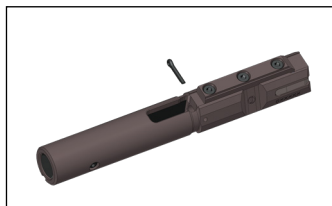
2. Align the extractor in the bolt and insert the extractor pin from above, flush with the bore
3. Place the bolt guide with the bevel facing forwards on the bolt and align it. First hand-



tighten the screws with lock washers , then tighten tem to approx. 3-3,5 Nm.

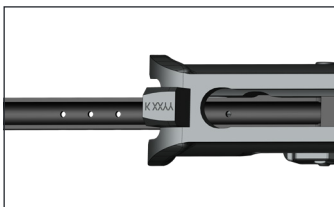


4. Place the firing pin spring on the front of the firing pin and insert them together from the rear into the bolt
5. Push the firing pin slightly forward with your



Assembly of the upper receiver

1. Insert charging handle into the groove of the upper receiver and push it forward.



2. Tighten the hexagon socket screws back to front and then in reverse order with a final



2. Insert the bolt into the upper receiver from behind and push it forward as far as it will go.



Attaching the lower receiver to the upper receiver

1. Pull out the pivot and takedown pins as far



Attaching the handguard

1. Carefully slide the handguard over the barrel onto the barrel nut and align it to the Picatinny rail of the upper receiver



as possible.

2. Place the upper receiver on the lower receiver.



7 FUNCTION CHECK

1. Set the safety lever to position (on safety)
2. Cock the hammer by pulling the charging handle all the way back and letting it snap forward.



1. Set the safety lever to position (on safety)
2. Cock the hammer by pulling the charging handle all the way back and letting it snap forward.
3. Pull the trigger – the hammer must not fall.



1. Set the safety lever to position (on safety)
2. Cock the hammer by pulling the charging handle all the way back and letting it snap forward.
3. Pull the trigger – the hammer must not fall.
4. Set safety lever to position (fire) and pull



1. Set the safety lever to position (on safety)
2. Cock the hammer by pulling the charging



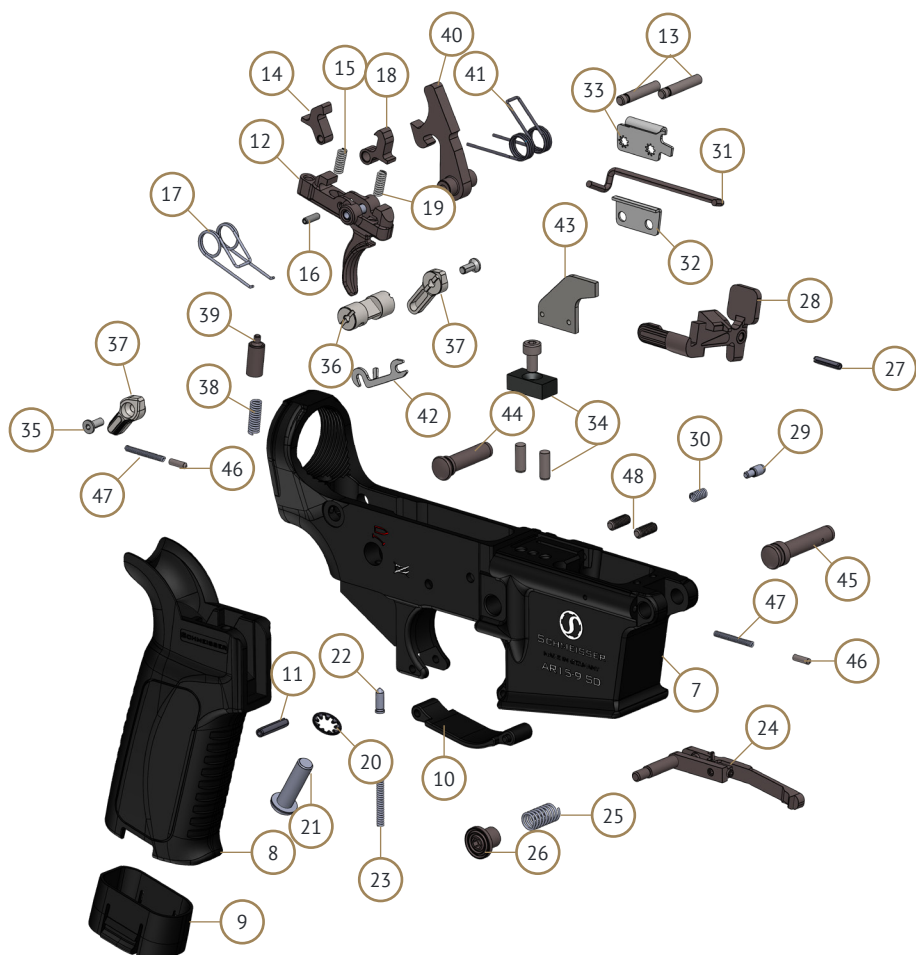


EXPLODED DIAGRAMS BY ASSEMBLY GROUP



Lower receiver

- | | |
|----------------------------------|---------------------------------|
| 1 <u>Buttstock</u> | 14 <u>Disconnecter</u> |
| 2 <u>Solid buffer tube</u> | 15 <u>Disconnecter spring</u> |
| 3 <u>Solid castle nut</u> | 16 <u>Disconnecter pin</u> |
| 4 <u>Solid Sleeve QD</u> | 17 <u>Trigger spring</u> |
| 5 <u>Buffer spring</u> | 18 <u>Sear</u> |
| 6 <u>Buffer</u> | 19 <u>Sear spring</u> |
| 7 <u>Lower receiver</u> | 20 <u>Pistol grip washer</u> |
| 8 <u>Pistol grip</u> | 21 <u>Pistol grip screw</u> |
| 9 <u>Pistol grip plug</u> | 22 <u>safety detent</u> |
| 10 <u>Trigger guard</u> | 23 <u>safety detent spring</u> |
| 11 <u>Trigger guard pin</u> | 24 <u>Magazine catch</u> |
| 12 <u>Two Stage Trigger</u> | 25 <u>Magazine catch spring</u> |
| 13 <u>Trigger and hammer pin</u> | 26 <u>Magazine catch button</u> |



- | | | | |
|----|---|----|------------------------------------|
| 27 | <u>Bolt catch pin</u> | 40 | <u>Hammer</u> |
| 28 | <u>Bolt catch</u> | 41 | <u>Hammer spring</u> |
| 29 | <u>Bolt catch plunger</u> | 42 | <u>Locking plate</u> |
| 30 | <u>Bolt catch spring</u> | 43 | <u>Ejector</u> |
| 31 | <u>Bolt catch transfer lever</u> | 44 | <u>Takedown pin</u> |
| 32 | <u>Transfer lever bracket right</u> | 45 | <u>Pivot pin</u> |
| 33 | <u>Transfer lever bracket left</u> | 46 | <u>Takedown / Pivot pin detent</u> |
| 34 | <u>Bolt catch block incl. screws and pins</u> | 47 | <u>Takedown / Pivot pin spring</u> |
| 35 | <u>Safety lever screw</u> | 48 | <u>Ejector set screw</u> |
| 36 | <u>Safety shaft</u> | | |
| 37 | <u>Safety lever short / long</u> | | |
| 38 | <u>Buffer retaining spring</u> | | |
| 39 | <u>Buffer retainer</u> | | |



Upper receiver

- | | | | |
|----|--------------------------|----|----------------------------|
| 1 | <u>Upper Receiver</u> | 11 | <u>Crush washer</u> |
| 2 | <u>Barrel</u> | 12 | <u>NoFlash flash hider</u> |
| 3 | <u>Barrel nut</u> | 13 | <u>Flip-up sight rear</u> |
| 4 | <u>Bolt</u> | 14 | <u>Flip-up sight front</u> |
| 5 | <u>Charging handle</u> | | |
| 6 | <u>Dust cover</u> | | |
| 7 | <u>Dust cover spring</u> | | |
| 8 | <u>Dust cover rod</u> | | |
| 9 | <u>Handguard</u> | | |
| 10 | <u>Handguard screw</u> | | |

AR15-9





Bolt assembly

- | | |
|----------------------------|----------------------------|
| 1 Bolt | 10 Guide piece |
| 2 Extractor pin | 11 Guide piece lock washer |
| 3 Firing pin | 12 Guide piece screw |
| 4 Firing pin spring | |
| 5 Firing pin retaining pin | |
| 6 Extractor spring | |
| 7 Extractor | |
| 8 Additional weight | |
| 9 Additional weight pin | |

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



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