SCHMEISSER

SP15

THE FINAL
EVOLUTION

DE BEDIENUNGSANLEITUNG 1-39

EN USER MANUAL 40-80

QUALITY MADE IN GERMANY

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SCHMEISSER

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INTRODUCTION

Schmeisser GmbH is proud to bear the name of Hugo Schmeisser, one of the most innovative arms designers of the 20th century.

Schmeisser today

Tradition meets high-tech – definitely a sound philosophy. Production and quality controls are a major part of our production process, since we have made it our goal to produce in Krefeld, Germany the best AR15 and M16-type weaons. For hunters, sport shooters or national and international police and military market, our entire production is strictly certified according to DIN EN ISO 9001:2015 and is constantly being expanded and improved. This is the only way we canguarantee consistently high quality and delivery capacity. We see new developments and optimization ofour products as a daily challenge.

GERMANY
PRODUCTION SITE

ISO 9001
CERTIFIED

CF537
NATO NUMBER

SP15

The Schmeisser SP15 Straight Pull rifle is based on the proven AR15 system, which has been used by armedforces all over the world for decades. Over the years, a lot has happened, especially in the area of material development. Today, for example, a variety of alloy components makes it possible to produce stronger materials than ever before.

Upper and lower receiver of the Schmeisser SP15 are made of forged 7075 T6 aluminum. This manufacturing process gives the material an uninterrupted fiber orientation, unlike receivers that are machined from solid (billet receivers).

The Schmeisser SP15 is a straight pull rifle with a rotating bolt locking system. The following manual gives the user an overview of the weapon's most important functions, handling, maintenance, cleaning and care.

WARNINGS AND SAFETY INSTRUCTIONS





Danger to life when handling loaded weapons.

Fire this weapon only where permitted by law.

Always consider a firearm to be loaded until you have conducted a safety check of the weapon yourself.

Never point the weapon at a person, even if you think the firearm is unloaded!

Always point the muzzle in a safe direction, such as a bullet trap.

Conduct a safety check before using the weapon.

Only use ammunition which is approved according to C.I.P. specification and which is neither contaminated nor damaged. Failure to observe this can lead to serious injury or death.

Use the weapon only if it is in technically perfect condition.

Store rifle and ammunition in accordance with the applicable storage regulations.

Read through the operating instructions carefully before using the weapon.

Never attempt to modify or alter the rifle yourself. This may result in damage to the gun and injury or death to persons.
The manufacturer or importer of the gun declines any liability for the consequences of tampering with the gun or improper use of the gun.

If water, any other liquid, debris and/or contaminants are present in the barrel during firing, it may damage the gun and result in injury or death.

Stop shooting immediately if you notice a change in firing sound or recoil. Unload the firearm and conduct a safety ckeck. Esspecially make sure that there is no bullet, gunpowder residue or other contamination in the barrel.

Remove foreign particles and clean the barrel before shooting again. If there is a bullet in the barrel, consult a qualified gunsmith or firearm dealer who will professionally correct this problem.

Safety notice

The operating instructions are part of the weapon.

Do not use the rifle until you fully understand all safety instructions and how to handle the rifle.

Only persons who have completely read and understood the operating instructions should be allowed to use the weapon.

Before passing the rifle to another person or laying it down, check that the rifle is unloaded and the bolt is open.

Always wear hearing protection and safety glasses when shooting. Also advise bystanders to wear hearing protection and safety glasses.

Advise bystanders of possible hazards from noise, ejected cartridge cases, and gun smoke.

TECHNICAL DATA



CALIBER	.223 Rem. (5,56 x 45mm)
MAGAZINE	10 rounds
TWIST	1:9”
GROOVES	6
ACTION TYPE	Straight pull action with rotating bolt head
Vº	Approx. 900 m/s (depending on ammunition)



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



Safety

The SP15 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.

At this point the bolt head is locked into the barrel extension by its locking lugs. By pulling back the bolt handle or charging handle the bolt carrier moves towards the back of the gun. When the bolt carrier has moved approx. 6mm backwards the cam pin slides in a slot of the bolt carrier, forces the bolt head to rotate and thus unlocks it from the barrel extension.

Once the bolt head is fully unlocked it moves straight rearwards along with the bolt carrier. The empty cartridge case is extracted from the chamber by the extractor of the bolt head. As soon as the neck of the cartridge case clears the barrel extension, the spring loaded ejector of the bolt head forces it out of the ejection port. When the bolt carrier moves rearwards the hammer is rotated downwards and cocked. The buffer which rests inline with the buffer spring is located behind the bolt carrier and limiting the rearward movement. The bolt carrier moves forward by the force of the buffer spring, when the bolt handle or charging handle are released.

While moving forward the bolt´s locking lugs push a new cartridge from the magazine over the feedramps of the barrel extension into the cartridge chamber. When the bolt head is in its foreward position a pocket milled into the upper receiver allows the cam pin to follow the slot of the bolt carrier, so that the bolt head twists and locks into the barrel extension. Now the the rifle ready to fire once again.

Bolt catch

The Schmeisser SP15 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 the bolt handle or 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. In order 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 bolt handle or charging handle to the rear position and let it snap forward.





LOADING THE WEAPON

Loading the magazine

We recommand to use only original Glock double stack magazines from generation 4!

Grap the magazine in one hand and push down the magazine follower with your thumb. Take the cartridge in you 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.



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 bolt handle or charging handle all the way back and let it snap forward.



3. Set safety lever toposition (fire)



4. Pulling the trigger will fire the shot.
5. Pull the bolt handle or charging handle all the way back and let it snap forward. This will eject the empty cartridge and insert a new round from the magazine into the cartridge chamber. The weapon is now ready to fire.

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 loaded magazine into weapon
6. Make sure that the magazine is fully engaged
7. Pull the bolt handle or charging handle back a little and release,or press the bolt catch lever.



8. The weapon is now fully loaded

Safety notice

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

Only chamber a round immediately before shooting.

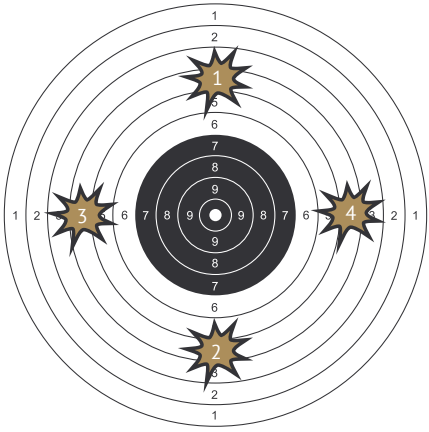
Unloading

1. Put weapon on safety
2. Press magazine release button and remove magazine
3. Pull bolt handle or charging handle all the way back (if it is not being held by the bolt catch) to remove the cartridge in 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





ADJUSTING THE SIGHTS



POINT OF IMPACT

1 **Position of the point of hit too high**
Adjust front sight in direction **DN**

2 **Position of the point of hit too low**
Adjust front sight in direction **UP**

3 **Position of diopter too far to the left**
Adjust diopter in rear sight in direction **R**

4 **Position of diopter too far to the right**
Adjust diopter in rear sight in direction **L**

Height adjustment

Adjustment of the point of hit:

The designation **UP** (high) refers to the height adjustment of the point of impact. When turned in the UP direction

➥ The weapon shoots higher.

The designation **DN** (down) refers to the height adjustment of the point of impact. When turned in the DN direction

➥ The weapon shoots lower.



Windage adjustment

Adjusting the diopter:

R (right) and **L** (left) refers to the windage adjustment of the diopter. Turning in direction **R** will move the diopter to the right

➥ The point of impact is further to the right.

L (left) refers to the windage adjustment of the diopter. Turning in direction L will move the diopter to the left

➥ The point of impact is further to the left.



DISASSEMBLING THE WEAPON

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.



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

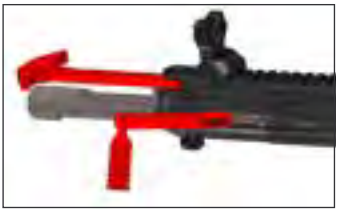


3. Remove the upper receiver from the lower receiver.



Removing the bolt

1. Use a 3mm Allen key to loosen the 3 screws and remove the bolt handle from the bolt.

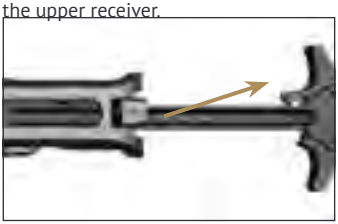




2. After removing the bolt handle the bolt can be extracted backwards from the upper receiver



1. Pull the charging handle half the way back and then remove the bolt backwards from the upper receiver.



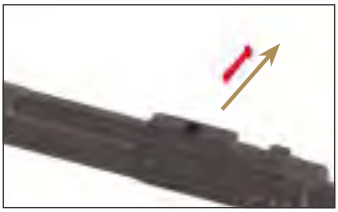
Safety notice

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

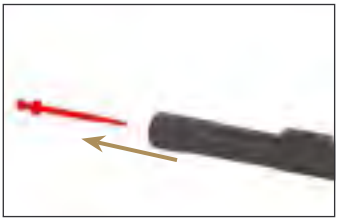
Bolt must be locked in the front position for weapon disassembling

Disassembling the bolt

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



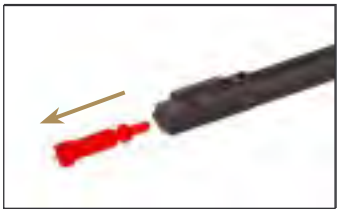
2. Pull the firing pin backwards out of the bolt carrier



3. push the bolt head all the way into the bolt carrier. rotate the cam about 90° and pull it out upwards.



4. Pull the bolt head out of the bolt carrier

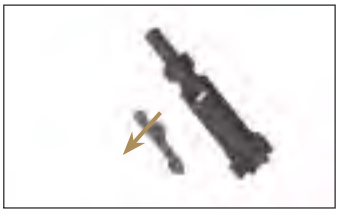


Disassembling the bolt head

1. Press the extractor with slight pressure against the bolt head and push out the extractor pin with a drift prunch



2. Remove the extractor and it's spring



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

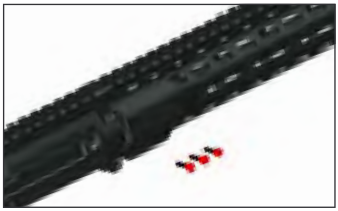


3. Turn the locking plate upwards and then pull it out. Afterwards the hammer and trigger pins can be pushed out. Now hammer and trigger can be removed upwards.

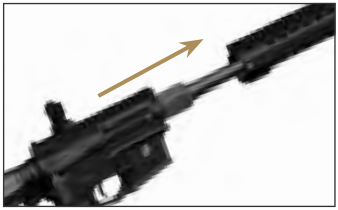


Removing the front handguard

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



2. Remove the handguard forward over the barrel



Safety notice

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

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

CLEANING AND MAINTENANCE OF THE ASSEMBLY GROUPS

Safety notice

Make sure the weapon is unloaded before cleaning or maintenance work

Never change the direction of scrubbing of the cleaning brush inside the barrel.

Never use steel brushes to clean the weapon.

Safety notice: To ensure proper functioning, precision and durability of the weapon, each assembly group should be cleaned after shooting. This applies to all surface exposed to gun smoke or gun powder residue as well as to mechanical stressed assembly groups. Only use cleaning products that are approved for firearm cleaning and maintenance. Read through the instructions carefully.

Cleaning set (included)

SCOPE OF DELIVERY 1 bag (cleaning set)

1 bore shake



Cleaning and maintenance of the upper receiver

1. Remove gun smoke residue in the upper receiver with the brush.
2. Clean charging handle with a soft cloth.



3. Oil the barrel from the inside and clean it with the brass brush or bore snake to remove rough fouling. Only pull brass brush and bore snake in the direction of fire!



4. Clean the locking lugs of the barrel extension and the cartridge chamber with the supplied brass brush
5. Clean cartridge chamber and barrel with the bore snake and a wool pull through
6. Wipe the barrel with a lightly oiled wool pull trough to prevent corrosion



Use cleaning product, lubricant and anticorrosion agent (oil) for the following areas:

All areas where corrosion can form from powder residue and fouling, as well as sliding surfaces in the upper receiver (oil for lubrication)

- In barrel and cartridge chamber (oil for corrosion protection **only**)
- On the charging handle (oil for lubrication)

Warning

Check for wear

Check all parts, especially barrel, upper and lower receiver and handguard for damage, deformation and all components for corrosion

Safety notice

Before shooting, remove oil residue in the barrel and cartridge chamber with suitable cleaning material

Warning

Check for wear
Check all parts of the bolt carrier group for damage and corrosion

Maintenance notice:
After cleaning apply some lubricant and / or anti-corrosion agent (oil) to the following areas:

Preservation:
All areas where corrosion can form from powder residue and fouling

Lubrication:
- Bolt head, inside and outside
- Bolt carrier, inside and outside
- Cam pin, firing pin and firing pin retaining pin

Caution: Too much oil can impair the function of the rifle and increase the adhesion of fouling and gun power residues

Bolt cleaning and maintenance

1. Remove gun smoke residues from the following areas:
   a. Locking lugs
   b. Recess for the extractor
   c. Extractor and spring
   d. Breech face



2. Clean bolt carrier (inside and outside), cam pin, firing pin and firing pin retaining pin with a soft cloth



Warning

Check for wear

Check the lower receiver assembly and all operating elements for damage, deformation and corrosion.

Safety notice

Further disassembly of the lower receiver for cleaning and maintenance is **not** required. Failure to do so may result in damage or malfunction of the rifle.

Lower receiver cleaning and maintenance

1. Clean recess for trigger group in the lower receiver with a pipe cleaner or cotton swab
2. Clean bolt catch lever with a brush
3. Clean magazine well with a soft cloth
4. Clean buffer tube with a 12-gauge wool mop (not included)
5. Clean buffer and buffer spring with a soft cloth



ASSEMBLY OF THE SCHMEISSER SP15

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 disconnector.





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.



Assembling the bolt carrier group

1. Insert extractor, extractor spring and its rubber insert into the bolt head.



2. Align the extractor in the bolt head and push in the extractor pin by hand.
   The extractor pin must not stick out of the bolt head.



3. Push the bolt head into the bolt carrier as far as it will go and allignt it so that the extractor claw is at 10 o´clock when viewed from the front. In this position the cam pin can be inserted from diagonally above through the control cam into the bolt head.



4. Rotate Pull the bolt head all the way forward. Insert the firing pin from the rear and push it forward



5. Insert the firing pin



6. Insert the firing pin retaining pin.
Make sure it does not stick out the bolt carrier.



Safety notice

Check that the firing pin retaining pin is correctly seated by holding the bolt carrier group vertically, bolt head upwards, and shaking it.

The firing pin must not fall out backwards, but it must be able to move freely back and forth

Assembly of the upper receiver

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



2. Pull the bolt head all the way forward. Insert the gas key into the notch of the charging handle and push the bolt carrier group into the upper receiver.



3. Place the bolt handle on the bolt carrier and hand-tighten the 3 screws using a 3mm Allen key. Then tighten the screws with a torque of 3Nm



4. The tilt angle of the bolt handle can be adjusted in steps. To do this loosen the screw with a 4mm Allen key until the handle can be adjusted to the desired notch. Check that the nose of the handle fits exactly into the corresponding notch before tightening the screw with a torque of approx. 5-6Nm.





Caution: There is threadlocker on the screw, the clamping force of of the screw decreases the more often the screw is adjusted. If the bolt handle loosens check the threadlocker and replace it if necessary.

Attaching the lower receiver to the upper receiver

1. Pull out the pivot and takedown pins as far as possible.

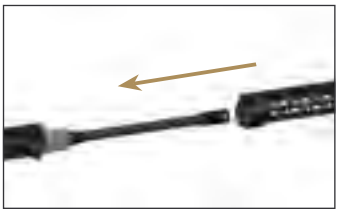


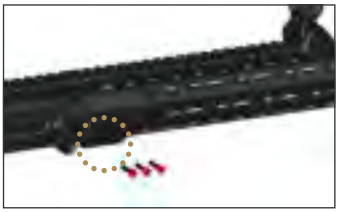
2. Place the upper receiver on the lower receiver. First push in the pivot pin and then the takedown pin.



Attaching the front handguard

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





FUNCTION CHECK



Conduct a safety check before performing the function check.
(See Point *Safety check*)

1. Set the safety lever to position (on safety)
2. Cock the hammer by pulling the bolt handle or 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 the trigger - the hammer must fall



5. After the hammer has released hold the trigger pressed while cocking the rifle by pulling back the bolt handle or charging handle and letting the bolt snap forward. At this point the hammer is held by the disconnector.



Slowly guide the trigger forward.
The disconnector will release the hammer. Then pull the trigger again. This will make a "click" sound.

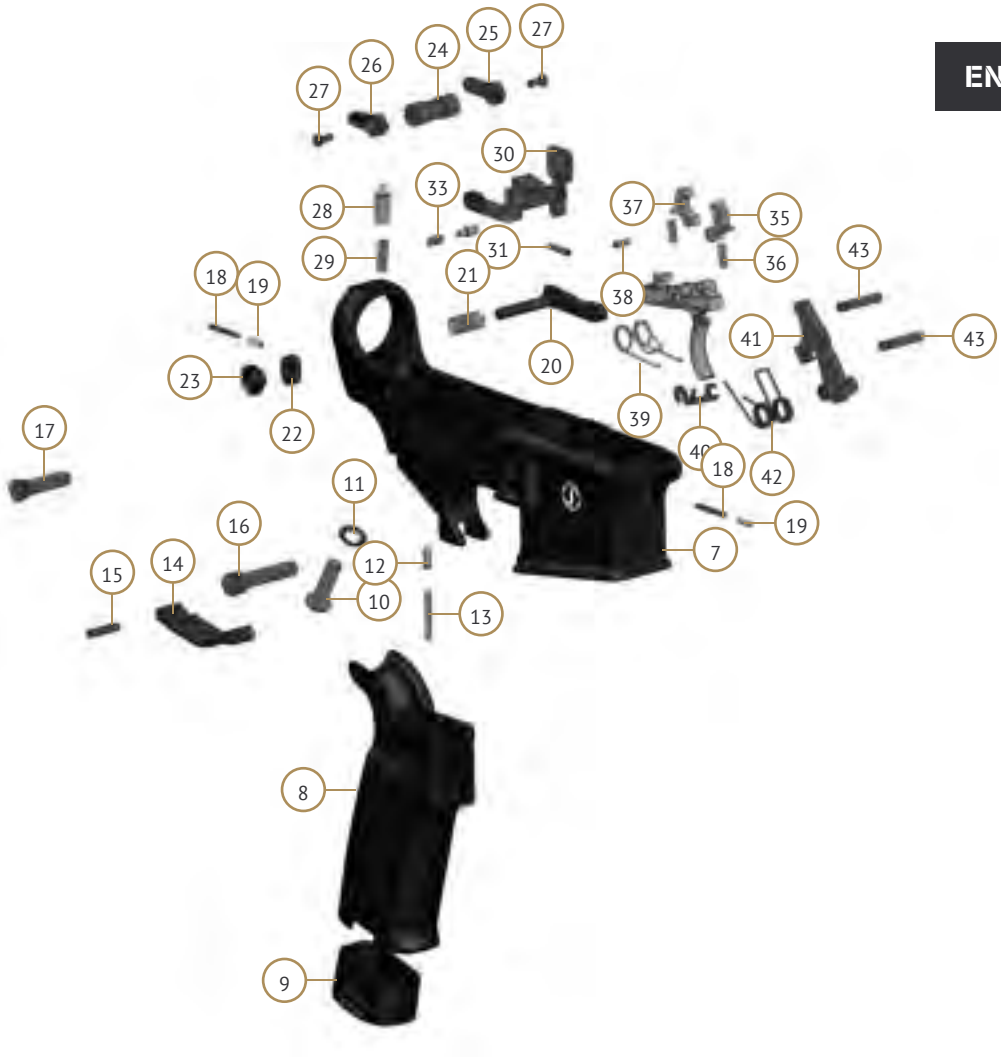


EXPLODED DIAGRAMS BY ASSEMBLY GROUP



Lower receiver

1 Buttstock
2 Solid buffer tube
3 Multi Draht Schließfeder
4 Buffer
5 Solid sleeve QD
6 Solid castle nut
7 Lower receiver
8 Pistol grip
9 Pistol grip plug
10 Pistol grip screw
11 Pistol grip washer
12 Safety detent
13 Safety detent spring
14 Trigger guard
15 Trigger guard pin
16 Pivot pin
17 Take down pin
18 Take down / Pivot pin spring
19 Take down / Pivot pin detent
20 Magazine catch
21 Magazine catch spring
22 Magazine catch spacer

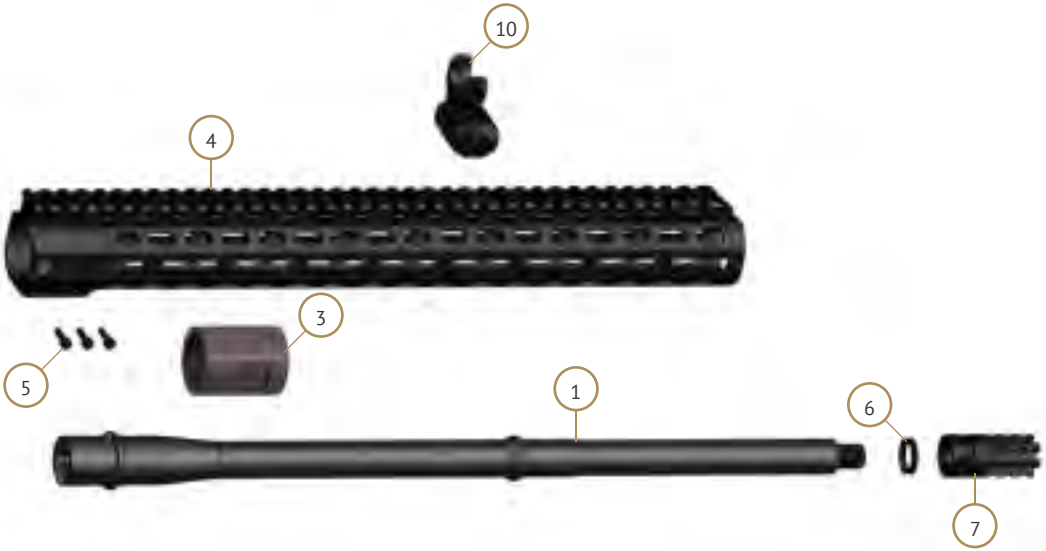


23 Magazine catch button
24 Safety shaft
25 Safety lever long
26 Safety lever short
27 Safety lever screw
28 Buffer retainer
29 Buffer retainer spring
30 Bolt catch
31 Bolt catch pin
32 Bolt catch plunger
33 Bolt catch spring
34 Trigger
35 Sear
36 Sear / disconnector spring
37 Disconnector
38 Disconnector pin
39 Trigger spring
40 Trigger locking plate
41 Hammer
42 Hammer spring
43 Hammer / trigger pin



Upper receiver

1 Barrel
2 Upper receiver
3 Barrel nut
4 Handguard
5 Handguard cylinder head screw
6 Crush washer
7 NoRec muzzle brake
8 Bolt
9 Charging handle
10 Flip-up sights


10
4
3
5
1
6
7



Bolt assembly

1 Bolt head
2 Extractor pin
3 Ejector pin
4 Ejector spring
5 Ejector
6 Extractor
7 Extractor rubber
8 Extractor spring
9 Bolt carrier
10 Firing pin
11 Firing pin retaining pin
12 Cam pin
13 Bolt handle link
14 Bolt handle link screw
15 Bolt handle
16 Bolt handle screw

SCHMEISSER

CERTIFICATE

MADE IN GERMANY

All parts and innovations are designed in-house,
in compliance with our quality requirements.
The objective is:
THE BEST

New parts are manufactured in small series and extensively tested.
After the tests have been successfully concluded, we commission
companies to manufacture these parts exclusively for us in series.

The parts manufactured for us are mainly from Germany.
In addition, parts also come from European and NATO-certified suppliers.
Our quality management is strictly certified according to DIN EN ISO 9001:2015
and is constantly being expanded and improved.

„The fact is that no parts of our firearma come from
China or the United States."

The tolerances, materials and surface finishes used in these countries
usually do not meet our quality standards requirements.

You have chosen the best - Schmeisser



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