SCHMEISSER



AR15-9
AR15-9 SD

THE FINAL EVOLUTION

DE BEDIENUNGSANLEITUNG 1-39

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AR15-9
AR15-9 SD

USER MANUAL

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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

AR15-9 SD



The Schmeisser AR15-9 (SD) 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 AR15-9 (SD) 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 AR15-9SD is a blowback operated rifle in caliber 9mm Luger with an integral silencer. 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	9x19mm (9mm Luger)
MAGAZINE	10 rounds
TWIST	1:10”
GROOVES	6
ACTION TYPE	Blowback
Vº	Approx. 270-350m/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 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 AR15-9 (SD) 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 Schmeisser AR15-9 (SD) 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.



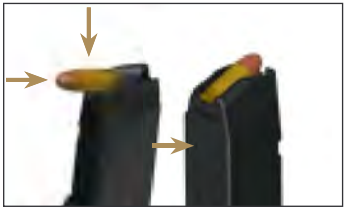


LOADING THE WEAPON

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 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.

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.



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.

Before firing the AR15-9 SD, check that the silencer is correctly mounted:

- 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.

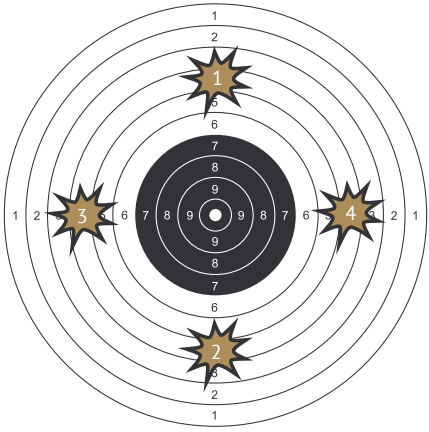
Unloading

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





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

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

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

Disassembling the upper and lower receiver

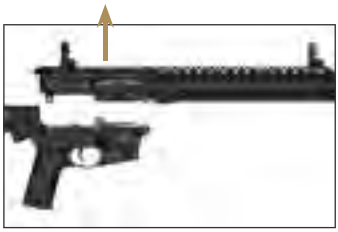
1. Use your thumb or the safety flag to push out the take down pin from left to right until it is in the end position.



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

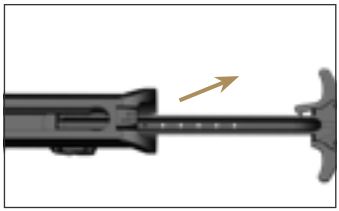
1. Pull the charging handle backwards to open the bolt.



2. Remove the bolt from the upper receiver.



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



Caution

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



Disassembling the silencer

1. Unscrew the silencer clockwise as seen in the direction of firing and remove it from the handguard towards the front



2. The elements of the silencer can be unscrewed for inspection and cleaning

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.

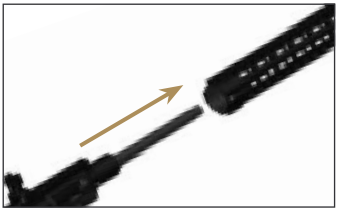


Removing the front handguard

1. Loosen the screws counter-clockwise with the supplied Allen key. (only for the AR15-9 SD: Remove screws and handguard locking plate)



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 snake



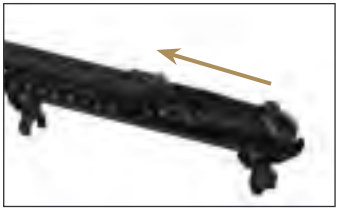


Cleaning and maintenance of the upper receiver

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!
   Remove the silencer of the AR15-9 SD before cleaning the barrel



4. Clean the barrel and cartridge chamber one after the other with the enclosed cleaning brush, the bore snake and then with a wool mop
5. Wipe the barrel with a lightly oiled wool mop to prevent corrosion

Cleaning and maintenance of the silencer

The Schmeisser AR15-9 (SD) is equipped with a modular silencer. During shooting, condensation can form in the silencer, which contains ammonia and other aggressive components. Therefore, the silencer should be disassembled and cleaned regularly. Recommended is cleaning after each shooting.

1. Spray some oil on the dirty surfaces and clean them with a soft brush or cloth. Neither use chemicals intended for cleaning pure metal, nor use an ultrasonic cleaner. It may damage the silencer and it will for sure damage the surface treatment that are applied to protect the silencer from corrosion.

2. After cleaning, all threads of the silencer and the thread of the barrel should be clean and lightly greased (e.g. with Anti Seize for aluminum components).

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 for damage and corrosion.

Check all components of the silencer for damage, especially the bullet passages in the baffles.

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
- Extractor
- Firing 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. Clean the following areas of the bolt from gunshot residue with a brush or cloth:
   a. Breech face
   b. Extractor
   c. Outer Surfaces



d. Firing pin channel



e. Firing pin, spring and retaining spring





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 AR15-9 SD



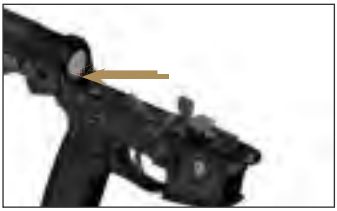
Assembling the lower receiver

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 and extractor spring into the bolt .



2. Align the extractor in the bolt and insert the extractor pin from above, flush with the bore



Safety notice

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

Push in the firing pin with a finger. It must move back again by the force of the

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 finger and insert the firing pin retaining pin into the bolt from the side so that the pin does not protrude from the bolt





Assembly of the upper receiver

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



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



Attaching the handguard (SD)

1. Slide the handguard bushing onto the barrel nut with the slot facing upwards..



2. Slide the handguard onto the bushing and align it with the picatinny rail of the upper receiver. Insert the handguard locking plate so that it engages in the notch of the bushing



1. Insert the screws through handguard and locking plate. Tighten the screws from the back to the front an then in reverse order with approx. 1-1,5 Nm.



Assembly of the silencer

1. Screw all components of the silencer together hand-tight and without the use of tools. Then screw the silencer onto the barrel hand-tight.

Safety notice

After mounting the silencer on the firearm, check that silencer and barrel bore are aligned. To do this, look through the barrel in the direction of firing, without the bolt in the upper housing.

When looking through barrel and silencer, no obstructions should be visible and the baffles should be concentric with the barrel, otherwise the bullet could contact the baffles. Damage to the firearm or serious injury could result.

If you are unsure whether barrel and silencer are aligned with each other, do not shoot the firearm under any circumstances, but consult an experienced gunsmith.

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



2. Tighten the hexagon socket screws back to front and then in reverse order with a final torque of approx. 1-1,5Nm .



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.



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 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 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. The hammer must fall.

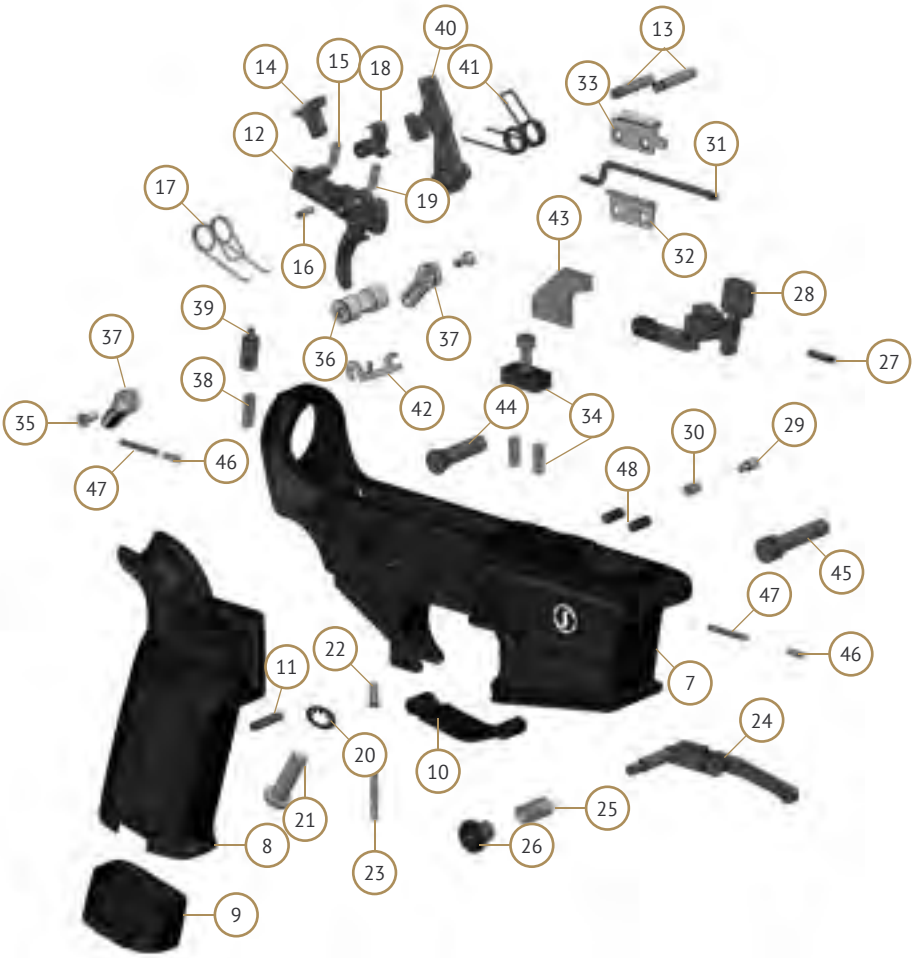


EXPLODED DIAGRAMS BY ASSEMBLY GROUP



Lower receiver

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



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



Upper receiver

1 Upper Receiver
2 Barrel
3 Barrel nut
4 Bolt
5 Charging handle
6 Dust cover
7 Dust cover spring
8 Dust cover rod
9 Handguard
10 Handguard screw
11 Crush washer
12 NoRec muzzle brake
13 NoFlash flash hider
14 Flip-up sight rear
15 Flip-up sight front
16 Handguard SD
17 Handguard SD bushing
18 Handguard SD locking plate
19 Silencer

AR15-9



AR15-9 SD





Bolt assembly

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

NOTES

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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