

Semi-Automatic Rifle SIG-PE 57

Cal. 7.5 x 55 mm (Suisse)



Important Do not discard

Keep this manual with your firearm
Upon change of ownership transfer
this manual with the firearm

Manual

Safety rules

- The shooter should always consider the weapon as loaded and unsafe (ready to fire) until he has personally convinced himself of the contrary by unloading it.
- Use only commercial grade ammunition.
- Use only ammunition that corresponds to the caliber of the weapon.
- During all manipulations point the weapon in a safe direction.
- Never aim the weapon at any object you do not intend to shoot at.
- Do not load the weapon until immediately before use.
- Do not place your finger on the trigger until the target has been sighted.
- Keep weapon and ammunition separately and under lock.
- Never leave the weapon unattended and keep it out of the reach of children.

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1. Weapon theory

1.1. Designation and purpose

The semi-automatic sporting rifle SIG-AMT is a delayed blow-back weapon with stationary barrel and semi-rigid breech.

The cartridges are fed from magazines of 6 or 24 rounds.

A considerably reduced recoil and the bipod which lends the rifle a firm support, improves accuracy of aim in all types of fire.

Next to the normal trigger, in latched neutral position, is a winter trigger. This can be unlatched and shifted into engagement to allow firing in mittens.

In the head of the breech casing is a loading indicator, affording a visual check as to whether the weapon is loaded or unloaded.



1.2 Main components

The principal parts of the weapon are:

- Barrel, bolted firmly to the breech casing.
- Breech casing with 2 lock heads, carrying handle, loading indicator, bolt, rear sight and cartridge ejector opening.
- Breech with breech head and director shaft, connected by a transverse key.
- Rear casing with butt and recoil spring column.
- Trigger unit with trigger casing, trigger mechanism, safety catch, winter trigger and pistol grip.
- Barrel casing with bipod, hand rest, and front sight mount.

1.3. Accessories

- Magazines for 24 rounds
- Magazines for 6 rounds
- Sling
- Cleaning kit
- Loading indicator holder

1.4 Dismantling and assembly

Routine dismantling

- a. Unload weapon as per Section 2.1.
- b. Remove butt
- c. Draw and remove bolt
- d. Extract breech
- e. Remove trigger casing (squeeze retaining pin with thumb and forefinger, and slide to the right).
- f. Separate the breech head from the director shaft by removing the transverse key
- g. Remove the recoil spring column from the butt.

Detailed dismantling

- h. Routine dismantling (a-g)
- i. Detach the sling by unhooking the spring hook from the front sling bracket.
- j. Remove upper part of hand rest.
- k. Unscrew the hand rest screw, and remove the hand rest.
- l. Unscrew and remove the screw from the connector piece of the barrel casing
- m. Slide the barrel casing forward off the barrel.
- n. Dismantle the magazine
- o. Unscrew the butt screw
- p. Remove the butt, together with the end plate and the rear sling bracket, from the rear casing

Assembly

Reverse the above operational sequence.



1.5 Cleaning and maintenance

Rough cleaning

- Clean down the rifle and magazine externally and then grease them.

Routine cleaning

- Routine dismantling as in Section 1.3.
- Clean down all dismantled components, including magazine, and grease them.
- Clean the bore. Caution: Lift the loading indicator and secure it in raised position with the holder. Check and grease.
- Clean and grease the breech and breech casing
- Clean and grease the recoil spring.
- Check over all principal parts.
- Assemble the weapon.
- Perform the functional checks as per Section 1.5.

Complete cleaning

- Detailed dismantling as per Section 1.3.
- Clean, check and grease all components in the same manner as for routine cleaning.
- Assemble the weapon.
- Perform the functional checks as per Section 1.5.

1.6 Functional checks

Unloading the weapon (2.1.).

a) Safety catch

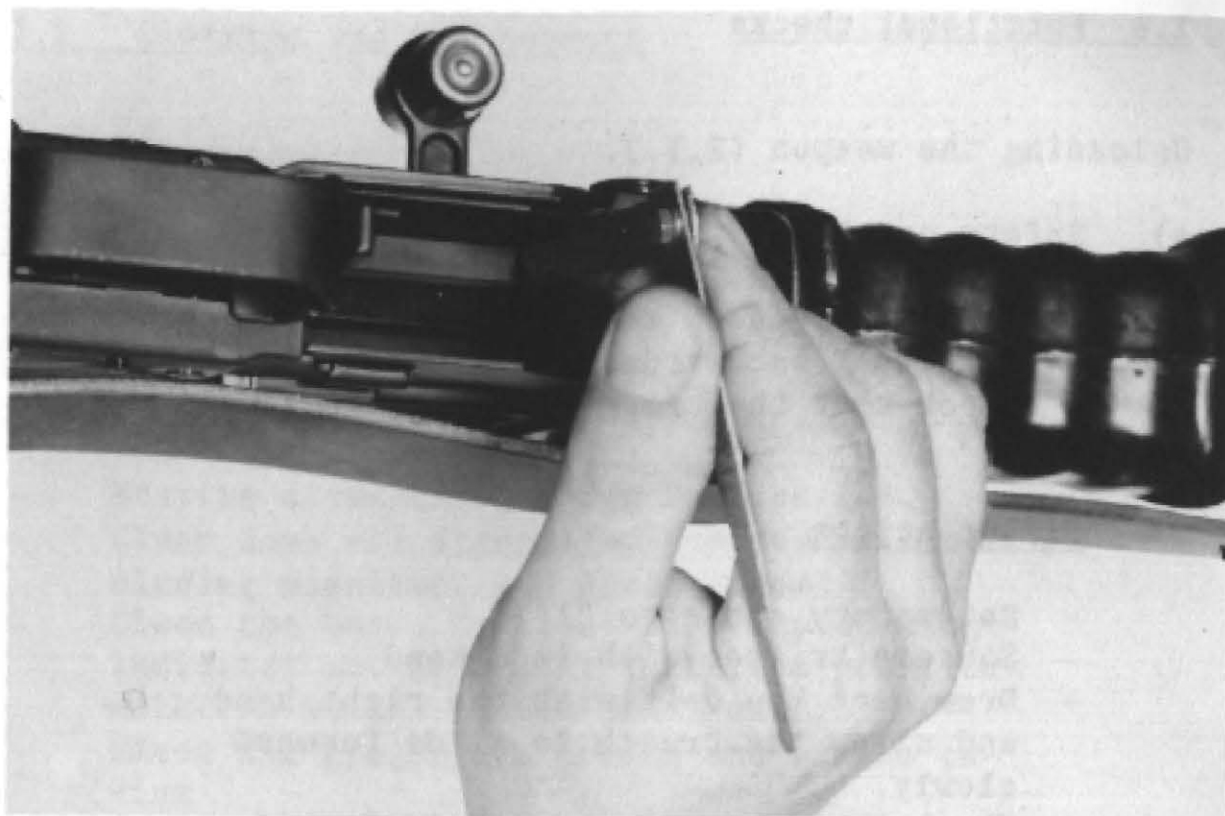
- Set safety catch to "S"
- Pull bolt backwards and release
- Check that the trigger remains locked.

b) Firing action

- Set safety catch to "1".
- Squeeze trigger with left hand.
- Draw back the bolt with the right hand, and allow the breech to glide forward slowly.
- Check that when the breech is locked, the hammer is not released.
- Release the trigger
- Set safety catch to "S".

c) Pressure point

- Set safety catch to "1"
- Squeeze winter trigger
- Check several times whether the pressure point can be felt.



d) "Locked breech" gap (similar to head space)

- Turn the weapon, without magazine, to direct the magazine opening upwards.
- Perform vigorous loading action repeatedly by hand.
- Check the gap on the left hand side between the breech head and the director shaft at locked breech position, using the gauge provided. (0,027" - 0,043")

2. Manipulation

2.1. Loading, reloading, unloading

Charging the magazine

Press the cartridges singly into the magazine.

Loading

- a. Set safety catch to "S"
- b. Insert magazine
- c. Perform loading action (bolt)

Reloading (magazine change)

- a. Remove empty magazine
- b. Insert new magazine
- c. Perform loading action (bolt)

Unloading

- a. Set safety catch to "S"
- b. Remove magazine
- c. Perform loading action
- d. Check that the loading indicator is low
- e. Set safety catch to "I"
- f. Point weapon against a bullet trap
- g. Squeeze trigger
- h. Set safety catch to "S"

2.2 Positions of firing

The best accuracy of aim is attained in the following positions:

- on bipod

Alternative firing positions are:

- prone, without support
- prone, with support
- kneeling
- sitting
- standing

2.3 Sight adjustment

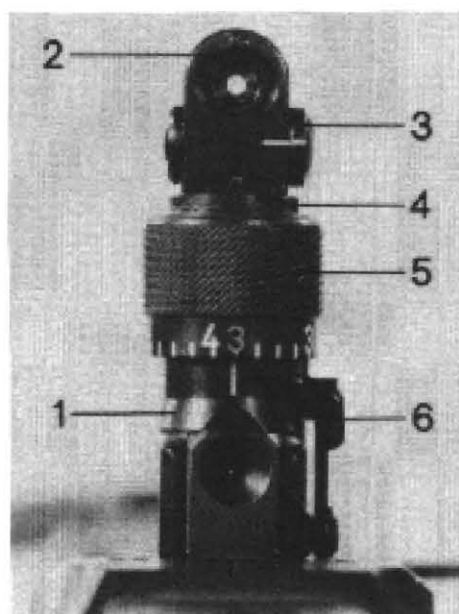
- Only make corrections when the deviation off aim has been determined definitely.
- Point of aim is corrected by elevation and lateral adjustment of rear sight as follows:

Elevation: by turning the diopter drum
- 1 stroke = 8 cm at 300 m
= 3 " at 328 yards

Windage: by turning the lateral correction screw
- 1 notch = 6 cm at 300 m
= 2 3/8 " at 328 yards

- point of impact right, turn to left
- point of impact left, turn to right

- 1 Sight base
- 2 Sight head
- 3 Lateral correction screw
- 4 Adjustment disc
- 5 Diopter drum
- 6 Sight adjustment lock

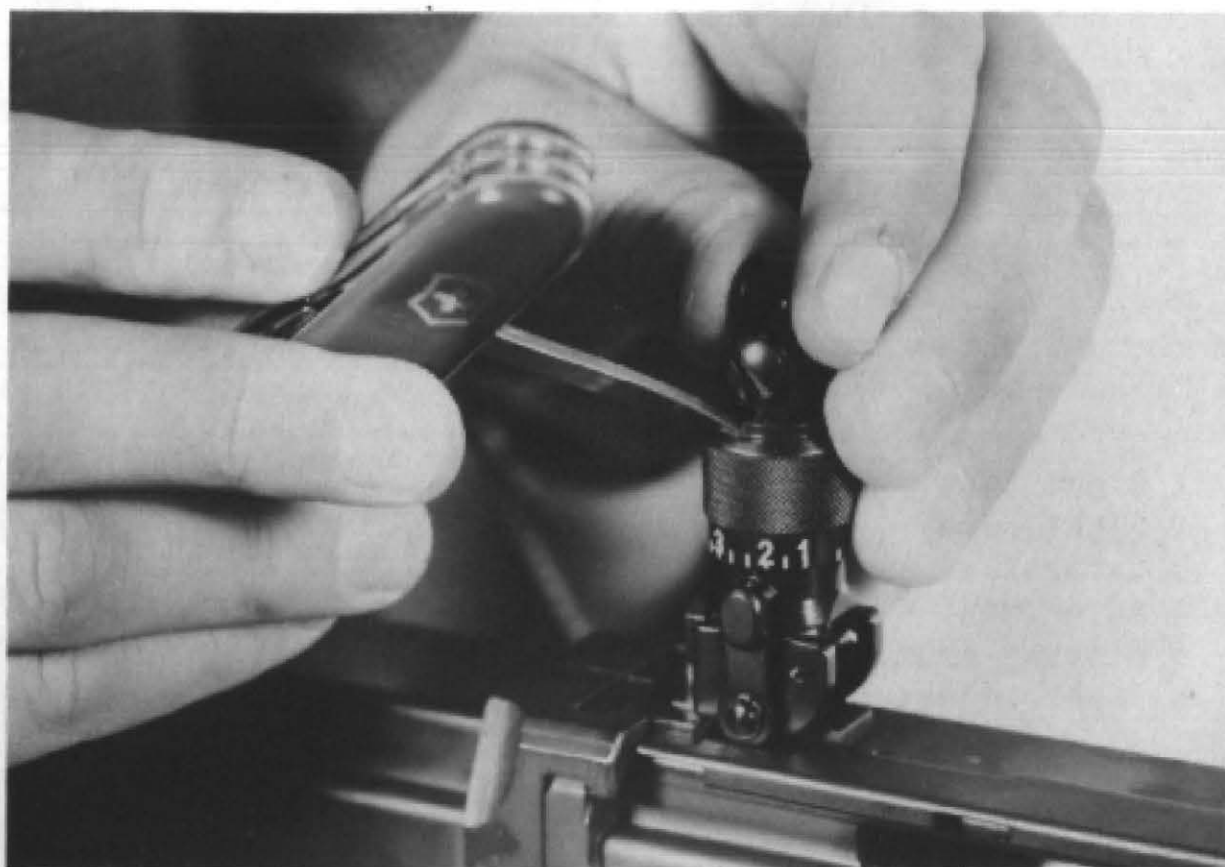


After having turned lateral correction screw it is advisable to turn down the diopter and to turn it up again.

If there are deviations on the diopter drum exceeding 100 with regard to the set distance, an adjustment is to be effected on the adjustment disc. To accomplish this, lift the sight head by approx. 2 mm and turn the adjustment disc by the necessary number of notches.

Point of impact below target = turn to the right
Point of impact above target = turn to the left

Each notch corresponds to an adjustment of 6 cm in the target at 300 m (2 3/8" at 328 yards).



Adjustment of diopter

3. Technical Data

Dimensions

Calibre	7,5 x 55 mm (Suisse)
Overall length	1115 mm (44")
Barrel length	609 mm (24")
Rifling pitch	270 mm (11")
Number of rifling grooves	4

Weights

Rifle with bipod	5700 g (12 1/2 lbs)
Empty magazine for	
- 24 rounds	250 g (8 6/8 oz)
- 6 rounds	170 g (6 oz)
Sling, complete	120 g (4 1/4 oz)

Ballistic data (average)

Muzzle velocity	750 m/sec (2460 ft/sec)
Muzzle energy	324 m/kg (2344 ft/lb)

Sights

Sight base
(rear sight - front sight) 635 mm (25")

Rear sight

- with range adjustment 100-640 m
(109-700 yd)

Rear sight lateral adjustment ± 2 o/00

Rear sight elevation adjustment ± 2 o/00

