

GSP500 SPORT PISTOL



- DE
- EN
- ES
- FR



GSP500 cal. .22 L.r.
GSP500 cal. .32 S&W long WC
Conversion unit GSP500 cal. .22 L.r.
Conversion unit GSP500 cal. .32 S&W long WC

OPERATING INSTRUCTIONS

The GSP500 sport pistol is a product of
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Read the instructions and warnings contained in this manual carefully before using the firearm.

1 INTRODUCTION

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*Dear Sports Marksman/Markswoman,
Thank you for choosing one of our products. The GSP500 sport pistol combines the latest technical innovations with time-tested, perfected functions.
We are confident that you have selected an extremely high-quality product that sets the standard for quality and development. Enjoy your new sport firearm, best of luck and "aim true".*

Your Carl WALTHER-Team

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2 SAFETY INSTRUCTIONS

2.1 About this instruction manual

This instruction manual describes the design, adjustment, handling and maintenance of the GSP500 sport pistol. The terms “pistol” and “weapon” will also be used.

The instruction manual is part of the pistol and must always be stored with the weapon for reference any time before using.

2.1.1 Notation and symbols

This instruction manual points out specific hazards associated with the handling of a weapon. Hazard warnings are labeled as follows:

DANGER



This pictogram with the word “DANGER” designates a direct hazard with high risk, which can result in immediate death or severe bodily injury if not avoided.

▶ This arrow points to the corresponding measure for averting the direct hazard.

WARNING



This pictogram with the word “WARNING” designates a potential hazard with moderate risk, which can result in severe bodily injury if not avoided.

▶ This arrow points to the corresponding measure for averting the potential hazard.

CAUTION



This pictogram with the word “CAUTION” designates a hazard with low risk which can cause minor or moderate bodily injury if not avoided.

▶ This arrow points to the corresponding measure for averting the hazard or property damage.

The locations of instructions and information that are of particular importance as well as tips for making protection easier through the described handling steps are labeled as follows:

NOTE



This pictogram “NOTE” provides tips and recommendations for use and handling.

2.2 Safety instructions

The GSP500 sport pistol was developed with state-of-the-art weapons technology according to recognized guidelines for the safety and protection of the user.

Nevertheless, it is still a weapon and for this reason may only be used by persons who have completely read and understood this instruction manual. It must be used with utmost caution and in compliance with the safety instructions described in this instruction manual as well as government regulations in your country.

DANGER



MORTAL DANGER

Thoughtless actions can result in severe danger to the life of the user and other persons as well as in damage to the surrounding environment.

▶ Carefully read and observe the following safety instructions during handling.

2.2.1 General safety instructions

- ▶ Observe and comply with government regulations in your country for handling weapons and ammunition.
- ▶ Thoroughly and completely read the instruction manual before using the pistol.
 - Only use pistol if the instructions are absolutely clear.
- ▶ Always store this instruction manual with the pistol.
- ▶ Also store any supplemental information or additions to this instruction manual with the pistol.
- ▶ Be sure to include the instruction manual with any handover of the pistol to another user or owner.
- ▶ Only allow persons access to the pistol who have completely read and understood this instruction manual and are authorized according to applicable law.
 - ▶ Refrain from shooting or handling the weapon when under the influence of medication, drugs or alcohol.



2.2.2 Safety instructions for handling the weapon

- ▶ Always wear hearing protection and safety glasses when shooting. Remind people in the area to wear hearing protection and safety glasses.
- ▶ Store pistols and ammunition in compliance with the law. Unauthorized persons (especially children) must not have access to them.
- ▶ Do not shoot at flat surfaces like rocks, concrete, walls, doors, glass or even water. The projectile may penetrate or ricochet in an unpredictable direction.
- ▶ Before shooting or cleaning and in case of malfunction always ensure that the pistol is not loaded and the barrel is free of foreign bodies.
- ▶ Always treat an unloaded pistol as if it were loaded. Hold it in a way that does not endanger yourself or others.
- ▶ Always point the pistol in a safe direction.
- ▶ Never point the pistol at anyone, regardless of whether it is loaded or not. Even the safest pistol can become dangerous to you and others through improper handling.
- ▶ Always lay the trigger finger on the external housing. Only pull the trigger if the pistol is aimed at a safe target.
- ▶ Never use force when operating, inspecting, dismantling, cleaning or assembling. Improper handling impairs the function and safety of the pistol.
- ▶ Only dismantle the weapon to the extent shown in the instructions.
- ▶ Safety and function are only guaranteed as long as the pistol and ammunition are in technically flawless condition.
- ▶ Have the pistol inspected by a qualified professional in case of external damage like corrosion or dropping.
- ▶ Always wipe away excess grease and oil and ensure that the barrel is clean and free of foreign bodies.
- ▶ Do not alter, modify or replace any of the parts of the pistol unless specifically directed to do so in this manual.
- ▶ Improper adjustments impair the safety and reliability of the pistol and may lead to injury or death.
- ▶ Only allow maintenance and service work to be conducted by Carl WALTHER GmbH or a qualified repair shop.
- ▶ Never set down, carry around, transport or drop a loaded pistol.

2.3 Intended use

The GSP500 sport pistol is a weapon for sport shooting at targets in shooting ranges designed and approved for the purpose.

2.4 Liability and guarantee

Carl WALTHER GmbH assumes no liability or warranty for incidents resulting from:

- ▶ Failure to observe this instruction manual.
- ▶ Non-compliance and non-observance of government regulations for handling weapons and reloaded ammunition.
- ▶ Incorrect use of the weapon.
- ▶ Improper handling.
- ▶ Incorrect storage.
- ▶ Negligence.
- ▶ Use of accessories and replacement parts from other manufacturers without the express written consent of Carl WALTHER GmbH or
- ▶ Alterations, additions and conversions to the pistol without the express written consent of Carl WALTHER GmbH.

3 DESCRIPTION

3.1 Construction

The GSP500 is a semiautomatic pistol. Depending on the version, it can shoot .22 L.r. or .32 S&W long WC cartridges. The following components are explained below:



- 1 Rear sight
- 2 Trigger blade
- 3 Slide
- 4 Cocking handle (both sides)
- 5 Front sight
- 6 Slide stop buttons (both sides)
- 7 Magazine catch



- 8 Rear sight pin
- 9 Safety lever
- 10 Slide stop buttons (both sides)

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- 11 Cover screws (2x)
- 12 Barrel lock screws (4x)



13 Conversion unit for .22 L.r.



14 Conversion unit for .32 S&W long WC

3.2 Package contents

- ▶ Pistol in plastic case
- ▶ Two magazines
- ▶ Tool and stripping aid
- ▶ Dry-firing buffer
- ▶ Instruction manual
- ▶ 2 weight bars (20 g each), installed
- ▶ Loader for magazine

3.3 Technical data

Model	GSP500 .22L.r.	GSP500 .32 S&W long WC
Caliber	.22L.r.	.32S&W long WC
Dimensions (L/H/W)	approx. 300x140x50 mm	approx. 300x140x50 mm
Weight (with magazine + 2 weight bars, each 20 g)	1.040 g	1.150 g
Barrel length	123 mm	
Sight radius	220 mm	220 mm
Magazine capacity	max. 6	max. 5
Two-stage trigger	1.000 g	1.000 g
Width of front sight	3.8	3.8

3.4 General and special characteristics

- ▶ The pistol is available in a version for .22 L.r. cartridges and a version for .32 S&W long WC cartridges.
A conversion unit can be purchased for each pistol.
- ▶ The pistol also comes with a rear sight that can be quickly switched for different shooting disciplines (precision / duel).
- ▶ Grips in different sizes are available for right-handers.
- ▶ A size M grip is available for left-handers.
- ▶ The standard manual safety acts on the trigger bar.
- ▶ Users can adjust the nose-heaviness or center of gravity by means of weight bars inserted into holes in the front sight holder.
- ▶ The finger position is adjustable in height and length.
- ▶ The first-stage trigger weight and second-stage trigger weight are separately adjustable.
- ▶ Tension-free barrel mounting
- ▶ Large, ergonomically optimized cocking handles
- ▶ Low-lying bore axis
- ▶ Highly durable barrel thanks to completely button rifled internal contour and hardened surface.
- ▶ Easy-to-reach slide stop buttons on both sides
- ▶ Removable and replaceable rear sight (precision / duel),
Variable rear sight cut-out (width and depth)
No protruding control elements that could obstruct the user's field of vision.



3.5 Sights

3.5.1 Front sight

The mounted front sight (1) with a width of 3.8 mm is ideal in most cases.

If a different height or width is preferred, the sight can easily be replaced by loosening the front sight screw (2).

Take out the attachment screws (3) and remove the cover from the muzzle end. Open the setscrew (2) and remove the front sight (1). Use a 1.5 mm Allen key.

CAUTION



The sights can be damaged if the pistol is put down on an unsuitable surface.

3.5.2 Rear sight

The rear sight, positioned very close to the barrel axis, can be adjusted for windage and elevation. It is also easy to adjust the width and depth of the rear sight cut-out.

For rapid changeover to other settings (e.g. from precision to duel or to a different caliber), the complete rear sight assembly can easily be removed and later fitted back onto the pistol in precisely the same position. To remove the rear sight assembly, undo the screw (1) with a 2 mm Allen key and pull the sight off. When fitting the rear sight, press it downwards and retighten the screw (1). The springs remain in place.

Elevation correction

► If shots group high

Turn the screw (2) clockwise.

► If shots group low

Turn the screw (2) counterclockwise.

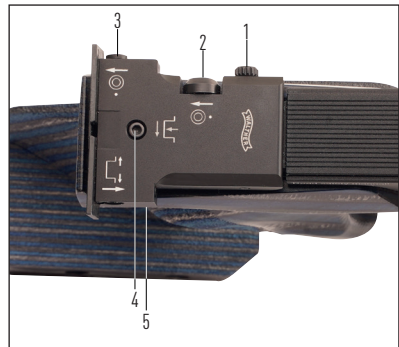
Windage correction

► If shots group to the right

Turn the screw (3) clockwise.

► If shots group to the left

Turn the screw (3) counterclockwise.



Adjustment of the rear sight width

► To increase the width

Turn the screw (5) clockwise.

► To reduce the width

Turn the screw (5) counterclockwise.

Adjustment of the rear sight depth

► To increase the depth

Turn the screw (4) clockwise.

► To reduce the depth

Turn the screw (4) counterclockwise.

At a distance of 25 meters, 1 click results in:

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- ▶ Elevation correction of approx. 0.5 cm
- ▶ Windage correction of approx. 0.5 cm

3.6 Slide

The GSP500 sport pistol has a blowback mechanism. It has a symmetrical design, making it easy to operate for both left-handers and right-handers.



3.6.1 Cocking handles

There are cocking handles on both sides. When the slide is grasped and pulled all the way back, one of the two slide stop buttons will engage in this position and the slide will stay open. To close the slide, pull it back. This disengages the slide catch. The slide will then jump forward. If there is a cartridge in the magazine, it will be fed automatically.

Do not get your hand in front of the muzzle when handling the pistol or slide.

3.6.1 Slide stop buttons

An automatic slide stop was deliberately dispensed with in the design of this pistol – this is the only way to ensure that the recoil feels the same after every shot fired. If the slide were to remain open after the last shot, this would cause a distinctly different reaction in the pistol.

3.8 Grip

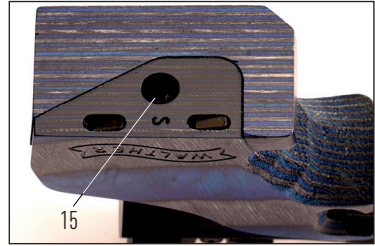
Grips of different sizes can be mounted for individual modifications. The position of the hand rest can also be adjusted.



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To change the position of the hand rest, open the screws (a) by a small amount and adjust the hand rest. Then retighten the screws (a).

To remove or replace the grip plate, open the fastening screw (15) at the bottom of the grip. Open the screw (b) with a 4 mm Allen key.



DANGER



Changes to factory trigger settings can lead to damages, malfunctions and inability to function.

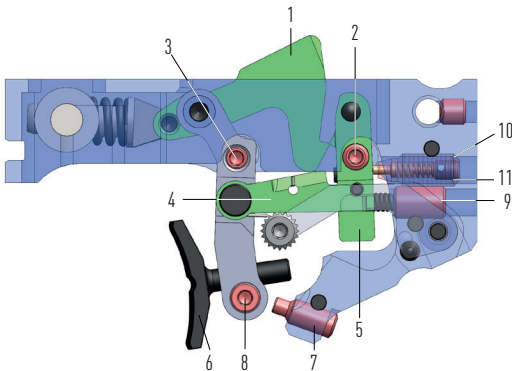
Furthermore, light touching of the trigger, shaking or other handling pose the risk of unintended firing.

3.91 Trigger

Do not make changes to the trigger settings in the absence of extensive experience and knowledge (experts, gunsmiths, experienced shooters).

All trigger settings can be changed after disassembly of the grip. It is not necessary to remove the trigger.

3.9.1 General



- 1 Hammer
- 2 First-stage travel adjustment
- 3 Trigger bar engagement screw
- 4 Trigger bar
- 5 Sear
- 6 Trigger blade
- 7 Trigger stop adjustment screw
- 8 Clamping screw for length of pull adjustment
- 9 Setscrew for first-stage trigger weight
- 10 Setscrew for second-stage trigger weight
- 11 Setscrew for let-off point

With this trigger unit the first-stage trigger weight and second-stage trigger weight are infinitely adjustable. The same is true of the trigger travel, trigger stop, finger angle and finger position. All major adjustment screws

are covered with a safety varnish to keep them in position, but individual adjustments may be made. The trigger has been optimally set in the factory. If you wish to set it to suit your individual taste, then take careful note of the following instructions to make the best of this top-quality pistol.

3.9.2 Removing the trigger unit from the frame

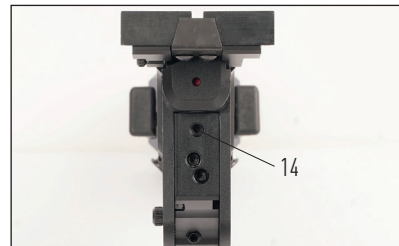
To remove the trigger unit from the frame, first dismantle the grip (see 3.8) and take out the threaded pin (11). Then unscrew the safety button (12). Next loosen the clamping screw (14) and push out the locking pin (13). Now you can pull off the trigger unit to the rear.



Please note that the trigger unit does not have to be removed from the frame for adjustments.

3.9.3 Basic setting

Cock the hammer (1). If it does not engage, turn screw (2) counterclockwise until it does so. Turn screw (2) clockwise until the hammer (1) is free (hold back the hammer so that it doesn't snap). Turn screw (2) counterclockwise two turns and cock the hammer (1). Now turn screw (3) counterclockwise until there is play between the trigger bar (4) and sear (5). Reduce the play to a minimum by turning screw (3) clockwise. If you cock the hammer with the trigger (6) pulled and allow the trigger to move slowly forward, the trigger bar should audibly engage with the sear.



3.9.4 Inserting the trigger unit into the frame

To insert the trigger unit, reverse the above steps. Cock the hammer before you push the trigger into the frame. If, after test firing, you feel the trigger needs fine tuning, proceed as follows. With a little practice, you will be able to make these adjustments without dismantling the trigger unit – all adjustment screws are accessible when the grip is removed.

3.9.5 Setting the trigger position

The trigger (6) may be adjusted for length of pull and angle by loosening screw (8). To switch from right-handed to left-handed shooting, turn the trigger (6) through 180 degrees.

3.9.6 Setting the trigger stop (after-travel)

Cock the hammer (1). Turn screw (7) clockwise until the hammer (1) can no longer be released. Pull the trigger (6). Hold the hammer (1) down and simultaneously turn screw (7) counterclockwise slowly until you feel the hammer disengage. To obtain the desired after-travel, turn screw (7) a further quarter turn counterclockwise.

3.9.7 Setting the first-stage trigger weight

By turning screw (9) clockwise, you can increase the first-stage trigger weight up to the total let-off weight. By turning screw (9) counterclockwise, you can reduce it. After making an adjustment, check the play between the trigger bar (4) and the sear (5), and adjust if necessary following the instructions in "Basic Setting".

3.9.8 Setting the second-stage trigger weight

Turn screw (10) clockwise to increase the second-stage trigger weight. Turn the screw counterclockwise to reduce it.

3.9.9 Setting the second stage

Turn screw (11) counterclockwise to increase the sear engagement (more trigger creep). Turn screw (11) clockwise to reduce the sear engagement (crisp trigger action).

3.9.10 Setting the trigger pull weight

The total trigger weight is the sum of the first- and second-stage weights.

Shooting rules specify that the total weight must be at least 1,000 grams or 1,360 grams.

We recommend setting at least 50 grams more than the rules require

EXAMPLE First-stage trigger weight 600 g + second-stage trigger weight 400 g = total trigger pull weight 1,000 g.



Similarly if you prefer a first-stage weight of 300 g, then the second stage must be 700 g to comply with the rules for at least 1,000 g total trigger weight.

3.10 Safety

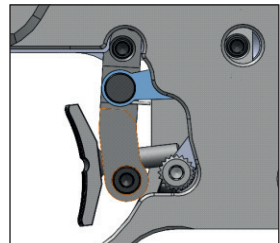
The GSP500 sport pistol has a manual safety.

The safety lever is located on the left side of the frame.

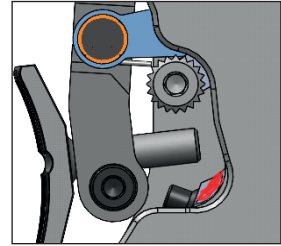
If the lever is in the upper position, the safety is off. The pistol can be fired.

The status of the safety is also indicated by a red mark.

If the red mark is concealed by the lever, the safety is on.



Make sure that the safety lever is always in the end position. If this is not the case, the pistol will fire if the trigger is pulled.



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WARNING



Never hold the weapon in a way that endangers your personal safety or the safety of others.

3.11 Magazine

The standard magazine of the .22 L.r. version has a capacity of 6 rounds. The magazine for the .32 S&W long WC version holds 5 rounds. The use of HV ammunition and reloaded ammunition with hot loads is not recommended on account of increased wear.

A loader is included for filling the magazine (see accessories).

3.12 Magazine catch

Press the magazine catch to release the magazine from the pistol. You can now remove it.

3.13 Slide damper

This sport pistol has been equipped with a pneumatic damping system that cushions the movement of the slide. The slide buffer with its special damping element should be checked for correct operation after about every 2,000 shots. When you pull back the slide, the buffer resistance should increase noticeably in the last 4 mm.

A buffer element that has been removed should be replaced and no longer used.

4 GENERAL HANDLING

Before using your GSP500 pistol, acquaint yourself with the handling and function according to this instruction manual.

WARNING



The pistol can be fired inadvertently during handling, which can result in deadly injury.

- ▶ Never set down a loaded pistol.
 - ▶ Never carry the pistol around.
 - ▶ Never drop a loaded pistol.
-

This pistol may only be used by persons who have completely read and understood this instruction manual. It must be used with the utmost caution and in compliance with the safety instructions described in this instruction manual (Section 2) as well as government regulations in your country.

4.1 Securing, checking and unloading

A safety inspection must be conducted before and after shooting, after a break and in case of malfunction. The purpose of the inspection is to confirm that the pistol is not loaded.

The inspection must be conducted especially when receiving the pistol from another user or in any other case of uncertainty as to whether it is loaded.

1. Take the gun firmly in your hand; do not place your finger on the trigger; point the weapon in a safe direction (e.g. clearing barrel).
2. Check to see whether the weapon is on safe. If the safety is not on, switch it on (see 3.10 Safety [13]).
3. Open the slide and lock it in the open position (see 3.6.2 Slide stop buttons [3]).
4. If the magazine is still in the pistol, remove it by pressing the magazine catch (see 3.12 Magazine catch [7]).
5. Remove any ammunition, such as rounds and shell casings.
6. Ensure that there are no foreign objects, dirt or grime in the barrel.

4.2 Loading

1. Open the slide and lock it in the rear position with the slide stop buttons.
2. Fill a magazine with cartridges.
3. Insert the loaded magazine into the bottom of the magazine well and ensure that the magazine catch clicks into place.

4. Using the cocking handles, pull the slide all the way back. Allow the slide to snap forward from its rearmost position. This loads a round into the chamber.
5. The gun is now loaded.

CAUTION



Always release the slide from the rearmost position and allow it to jump forward.
 Do not guide it forward with your hand.

4.3 Shooting

Shooting with firearms is only permitted at licensed shooting ranges. Strict compliance with the applicable shooting range rules is required. Follow the instructions of supervisory personnel.

1. Perform a safety check (see 4.1 Securing, checking and unloading).
2. Load the gun (see 4.2 Loading).
3. Hold your trigger finger outstretched along the outside of the housing.
4. Release the safety.
5. Aim the weapon at a safe target.
6. Aim using the front and rear sights.
7. Place your finger on the trigger.
8. Once you are sure you will hit the target where you want to, squeeze the trigger.
9. When the weapon is fired, it automatically reloads the next round until the magazine is empty.
10. When the trigger is released, the weapon is ready to fire and can be fired again.
11. When you are done shooting, perform a safety check.

WARNING



When the weapon fires, the slide opens automatically and then snaps closed very quickly.
 Keep your face and hands away from the slide, especially the cocking handles and the ejection port. Shell casings and other hot particles can cause burns.
 Always wear safety glasses and ear protection. Everyone present must comply with applicable safety regulations. If necessary, ask them to do so.
 Ensure that your actions do not endanger or injure yourself or others.

4.4 Field stripping

WARNING

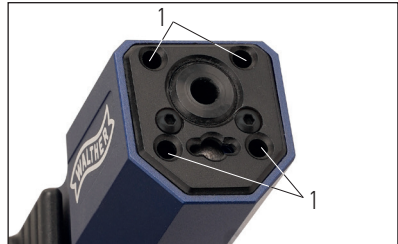


The weapon should only be disassembled in a clean, distraction-free environment. First perform a safety check (see 4.1 Securing, checking and unloading).

The pistol can easily be dismantled into its main assemblies: barrel, slide, frame and trigger unit. Use the stripping aid to separate the barrel and slide.

4.4.1 Removing the barrel assembly and slide assembly

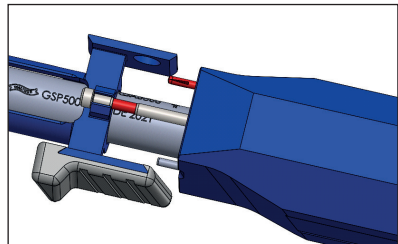
1. Close the open slide.
2. Loosen the four hexagon socket screws (1).
Use a 3 mm Allen key.
3. Then pull the barrel/slide assembly forwards from the frame.



4.4.2 Separating the slide and barrel

- ▶ Insert the tool into the hole provided in the slide rod and press it against the force of the recoil spring until the tool can be turned by 90° and locked in the front sight base.
- ▶ Next position the slide in such a way that the recoil spring rod can be pulled from the guide in the tapered area (shown in red).
- ▶ Lift the rod from the guide and at the same time pull the slide from the barrel.
The process for removing the trigger unit is described in Section 3.9 (Trigger).

4.5 Care and cleaning



CAUTION



When you remove the disassembly tool, the spring will be under tension. Firmly grasp the barrel and tool during removal.

In general, after shooting outside it is sufficient to wipe the pistol down with a lightly oiled cloth. The pistol should be cleaned approximately every 1.000 rounds. Regular cleaning will ensure trouble-free operation and safety, and it will help to retain the value of your pistol.

1. Perform a safety check (see 4.1 Securing, checking and unloading).
2. Dismantle the gun (see 4.4 Field stripping)
3. Starting from the chamber side of the barrel, push an oiled brass or copper wire brush up the bore until all of the lead deposits are gone.
4. Then remove any residue with cleaning pads, felt wads or a wool mop.
5. Clean the barrel, feeder ramp, guides, magazine well, and slide with a soft nylon brush. Finish by wiping the parts down with a lightly oiled rag.
6. Carefully blow on the trigger to remove any dirt particles. Do not use brushes or cloths in this area. Remove any heavier dirt with a small, soft brush.
7. Also clean the recoil spring and rod with a soft brush. Then wipe them with a soft cloth.
8. Clean the hole for the recoil spring with a dry cloth.
9. Clean the magazines as described under 5.
10. Lubricate the guide grooves and guide combs with a small amount of acid-free grease.
11. Mount the slide.
12. With a soft, lightly oiled cloth wipe down the exterior of the weapon.

NOTE



Use only cleaning kits made for weapons. These can be supplied by any dealer.

4.6 Storage and transport

Weapons should always be stored in safe, dry and dust-free places. Comply fully with country-specific regulations regarding storage and transport.

- ▶ Make sure that unauthorized third parties do not have access to weapons.
- ▶ Always store weapons and ammunition separately.
- ▶ Avoid exposing the weapon to large temperature fluctuations in order to avoid condensation in or on the weapon.
- ▶ Protect the weapon against corrosion by applying a light coat of oil.

CAUTION



- ▶ Before firing the weapon, it is essential to remove any oil residue from the magazine and barrel.
 - ▶ The pistol should always be unloaded, decocked and secured during transport. Use the enclosed dry-firing buffer. This also ensures, when closed, that there is no round in the chamber.
-

4.7 Dry firing / buffer attachment

The gun comes with a buffer attachment for dry-fire training. The buffer should be used for dry firing and sighting practice.

CAUTION



- Firing the gun without the buffer attachment, a round or an empty casing can damage the firing pin, slide, and the barrel. Therefore always use the buffer attachment when dry firing.
-

4.8 Attachment of additional weights

The pistol is supplied as standard with two weight bars, each weighing 20 g. To reduce nose-heaviness, take off the front cover and remove the bars. You can also attach additional weight bars to increase the nose-heaviness.

Maximum attachments:

- ▶ cal. .22 L.r.: 8 weight bars
- ▶ cal. .32 S&W long WC: 6 weight bars

5 OPTIONAL ACCESSORIES

2743772	Front sight, turnable	4.7 / 4.4 / 3.8 mm
2743778	Front sight, turnable +1	3.8 / 4.4 / 4.7 mm
2743768	Front sight, turnable	4.0 / 3.6 / 3.2 mm
2743774	Front sight, turnable +1	4.0 / 3.6 / 3.2 mm
2870738	Conversion unit GSP500 cal. .22l.r.	
2870746	Conversion unit GSP500 cal. .32 S&W long WC	
2859653	Weight bar	

DE

EN

ES

FR

GSP500 SPORT PISTOL
