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Instructions for Use
HK G36/SL8-1 Dual Sighting System

This document covers the installation, use and maintenance of the unique Dual Sighting System on the Heckler & Koch G36 and SL8-1 rifles.

Sight Description

The Dual Sighting System, produced for HK by the Hensoldt Division of Zeiss Corporation, combines an optical sight (either 1.5X or 3X magnification) and a electronic red dot reflex sight together in one unit housed within a polymer carrying handle. This unique sighting system was designed for and has been fielded with the German military on their issue G36 rifles and carbines. This sighting system can be fitted to the G36 and its variants or SL8-1 rifle without modification using the hardware provided with the sight and the HK SL8-1 Multi-tool, or Phillips head screwdriver.

Once mounted the Dual Sighting System allows the user the means to zero each sight independently and engage targets with either an optical sight or red dot sight to account for various targets and shooting conditions. The intent of the sight's design was for the shooter to use the optical sight for range estimation and precise engagements of long-range targets (out to 800 meters) or for engaging small targets, normally under lighted conditions.

The red dot sight is used more often for snap shooting, for engaging short range or moving targets or for circumstances where the ability to keep both eyes open during aiming is preferred. For this reason the red dot sight is often the better choice for firing while moving or during periods of limited visibility or darkness. Once zeroed the red dot acts as the aiming point for the shooter. However, like all sighting systems the point of impact of the rounds on target will vary depending on the distance at which the red dot sight was zeroed.

When using the Dual Sighting System on the SL8-1 it may be necessary to adjust the cheekrest provided on the rifle for optimum head position. Generally speaking the red dot sight is used with the head in a more upright position wherein the head may not make full or firm contact with the buttstock. As head position and cheekweld is less critical with a red dot reflex sight as long as the red dot is visible to the shooter the target can be effectively engaged once the sight is zeroed.

The two openings within the top of the carrying handle immediately forward of the optical sight are for mounting the optional Hensoldt NSA80/II passive night vision sight module.

Sight Installation

⇒WARNING⇐

Clear the Rifle!

To install the Dual Sighting System on the G36 or SL8-1, first "clear" the rifle by placing the safety/selector lever in the safe position, removing the magazine from the rifle, locking the bolt rearward and inspecting the chamber for the presence of a cartridge or empty case.

1. Once the rifle is "clear" use a Phillips head screwdriver or the HK Multi-tool supplied with each SL8-1, to loosen and remove the three mounting screws that hold the standard sight in place.

2. Pull the standard sight rearward off of the receiver of the rifle.

3. Slide the Dual Sighting System over the rear end of the receiver dovetail and push it forward into place on the rifle. Insure that the front extension of the carrying handle fits over the front mounting pedestal located on the rifle forward of the cocking lever.

4. Once fully seated, reinstall the three locking screws to secure the sight to the rifle.

⇒NOTE⇐

The longest of the three screws received with the Dual Sighting System (1 ½ inches in length) goes in the front end of the carrying handle. The two shorter screws (1 3/16 inches in length) are installed in the holes provided in the rear of the carrying handle under the optical sight.

When inserting the screw place one unthreaded washer under the head of the each screw. Insert the screws in the rifle from left to right. Install the threaded nuts on the end of the screws visible from the right side of the carrying handle. Hand tighten the screws using a Phillips head screwdriver or the HK SL8-1 Multi-tool. If using a torque screwdriver to tighten the screws set the torque setting to 250 NCM (22.5 inch pounds).

5. After mounting zero or reconfirm the zero of the sight(s) by following the directions provided in the operators manual for the rifle. Unless the proper torque setting is used when the sight is remounted there may be minor zero changes after remounting.

Use of the Dual Sighting System

Optical Sight

The use and adjustment of the Optical Sight, to include the features and function of the unique reticle pattern provided within the sight, is explained in the operators manual for the rifle.

Electronic Red Dot Reflex Sight
The red dot within the upper sight of the dual sighting system is powered by ambient light through a solar collector or by means of a battery contained within the sight. During normal daylight conditions with the solar collector shade on top of the dual sight open (slid forward) the solar collector will illuminate the red dot as long as sufficient ambient light is available to do so. The dot will glow brighter in stronger outdoor sunlight than it will indoors or under artificial light. For periods when very little ambient light is available or when the shooters prefers a brighter red dot, the battery back up can be switched on.

Turning the Red Dot Sight On and Off
The on/off switch for the red dot sight is located on the right rear end of the dual sighting system. Rotating this switch **COUNTERCLOCKWISE will turn the sight ON** (when the white line aligns with the white dot), **CLOCKWISE will shut the sight OFF** (when the white "O" aligns with the white dot – remember "O" means "off").

The red dot cannot be adjusted for brightness or size nor are there intermediate positions within the rotary on/off switch. The relatively large red dot is designed primarily for quick instinctual aiming and not finite precision. For precision engagements of small or distant targets the fine reticle within the optical sight of the Dual Sighting System should be used.

If desired the shade of the solar collector can be closed to hide the glow of the battery-illuminated collector during periods of darkness.

Changing the Red Dot Sight Battery
The Red Dot Sight uses only a single **3.6-volt size AA <u>Lithium</u> Battery**. One manufacturers model number for this battery is SL-760. It is available at many local stores, from Radio Shak or from HK directly under ID# 986444.

⇒NOTE⇐

Do not attempt to use other types of batteries in the red dot sight other than that specified above or poor performance or damage to the sight may occur and is not covered under warranty.

To remove the battery, locate the battery compartment positioned to the left of the red dot sight opposite the on/off switch. Use a coin inserted within the slotted cover to rotate the battery compartment 1/8th turn counterclockwise. The battery compartment can then be pulled out only far enough to remove and install the battery. DO NOT attempt to completely remove the battery compartment. The correct orientation for the battery is noted within the battery compartment. To close the battery compartment push in on and rotate the slotted cover 1/8th clockwise until secure.

Dual Sighting System Maintenance

If the red dot fails to illuminate when the battery on/off switch is turned on or the red dot flickers or is hard to see, try exchanging the battery with a fresh one. If this fails to improve matters clean the battery contacts within the battery compartment using a cotton swab and rubbing alcohol. If problems persist, contact your unit armorer, your HK dealer or Heckler & Koch.

DO NOT attempt to disassemble the Dual Sighting System for any reason. The solar collector and red dot and optical sight lens should be cleaned with lens cleaning tissues only to avoid scratching the lens.

DO NOT immerse the Dual Sighting System in cleaning solvent as damage to the sights lens and rubber and electronic components may occur and is not covered under warranty.

Zeroing

Due to the unique design of the Dual Sighting System both sights can be independently zeroed for the same or different ranges. For instance a hunter might prefer a long range zero (200 meters) for the optical sight for longer shots and a 50 meter zero for closer shots on moving targets or when the lighting conditions worsen.

The standard factory zero for rifles equipped with the Dual Sighting System is a 200 meter (219 yard) zero. Once established the 200 meter zero will insure that the aiming points provided within the Optical Sight reticle will correspond to the targets fired at longer distances when using 55 or 62 grain ammunition (results may vary with different types and brands of ammunition). The Red Dot Sight can also be adjusted using the same 200-meter zeroing procedure described below.

Zeroing Procedure

The intersection of the Optical Sight crosshairs within the thick black aiming circle, or the red dot of the reflex sight, should be used for zeroing.

1. With a target placed 25 meters (27.5 yards) from the firing position, adjust the impact of the rounds on target until the center of a good 3-shot group passes through the target 1 ¾ inches (45 mm) low of the point of aim. This will provide a 200 meter zero without the need to fire on or have access to a 200-meter range.

2. Consult the applicable operators manual for the rifle being fired for the method, direction of movement and degree of adjustment for the Optical Sight, which are also the same for both sights within the Dual Sighting System.

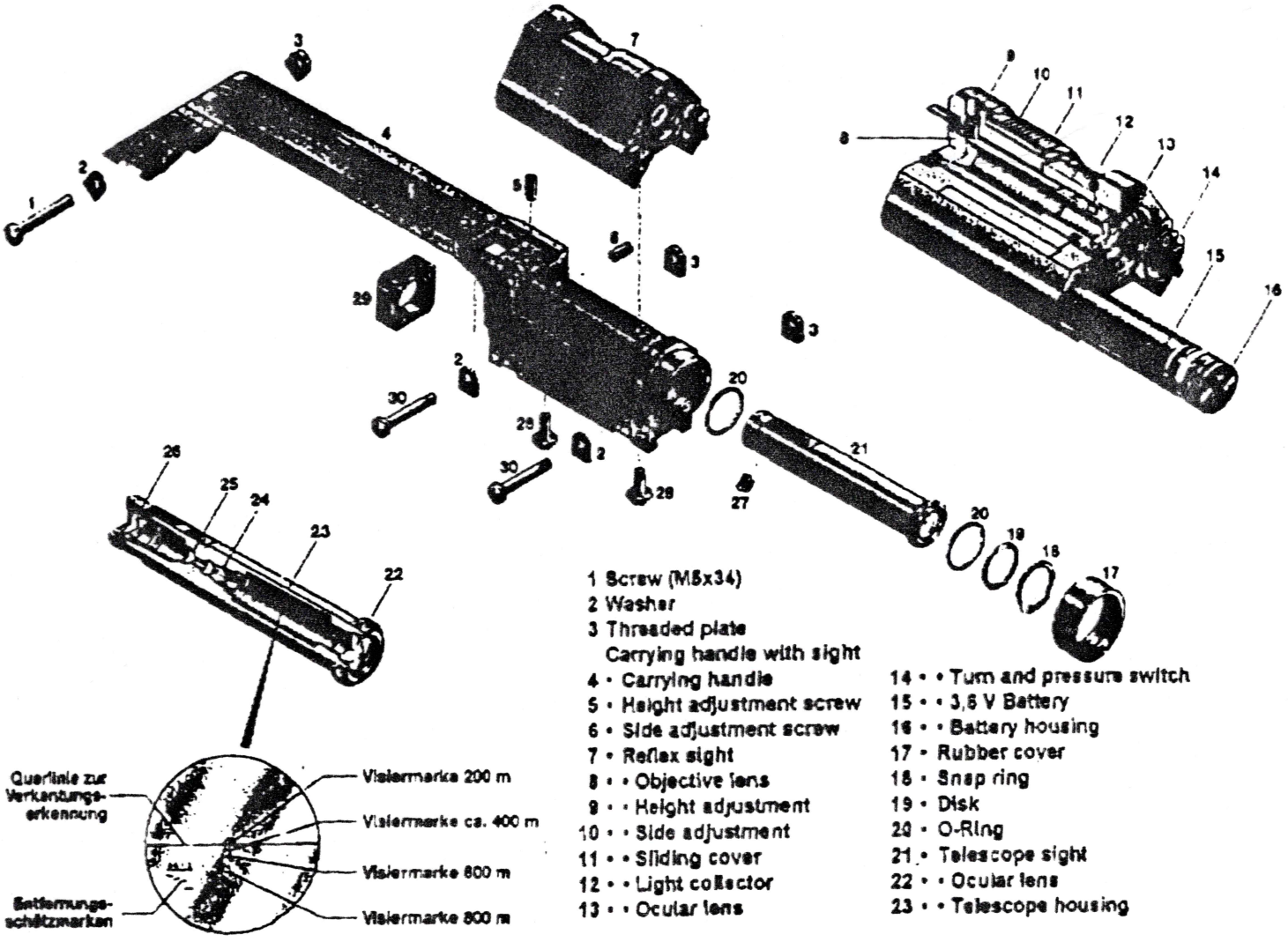
3. Use the 2.5 mm Allen wrench contained within the HK SL8-1 Multi-tool to make windage and elevation adjustments.

⇒NOTE⇐

There are no tactile clicks within the windage and elevation adjustment screws but a circular series of index lines are provided around the screws to note the desired degree of rotation.

Contact HK Customer Service at (703) 450-1900 should you have further qustions concerning this item or its use.

HK G36/SL8-1 Dual Sighting System



1 Screw (M5x34)
2 Washer
3 Threaded plate
Carrying handle with sight
4 • Carrying handle
5 • Height adjustment screw
6 • Side adjustment screw
7 • Reflex sight
8 • • Objective lens
9 • • Height adjustment
10 • • Side adjustment
11 • • Sliding cover
12 • • Light collector
13 • • Ocular lens
14 • • Turn and pressure switch
15 • • 3,6 V Battery
16 • • Battery housing
17 • Rubber cover
18 • Snap ring
19 • Disk
20 • O-Ring
21 • Telescope sight
22 • • Ocular lens
23 • • Telescope housing
24 • • Inversion System
25 • • Reticle
26 • • Objective lens
27 • Pressure spring
28 • Screw
29 • Cover
30 • Screw (M5x25)

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