PRODUCT IDENTIFICATION

Features of the *RAAM GSS*

Sub-Component Identification

Display Features

CARE, MAINTENANCE AND STORAGE

Dismount the *Wilcox RAAM GSS* from the primary weapon and inspect the unit for dirt, rust, and corrosion. If the display or lenses are broken or cloudy, notify unit armorer.

Ensure that the Battery Compartment Cap and o–ring are tightly sealed and that the area is free of sand and dirt particles. If a Battery Compartment Cap o–ring becomes cut, nicked or torn, notify unit armorer.

Dirt and other residue, like exposure to salt water, may impede the mechanical operation of the *RAAM GSS*. Flush with water while pivoting the *RAAM GSS* Sighting Module to remove any debris. Blow any residual dirt or dust free from the lenses, then wipe with a clean Lens Cloth, provided. Do not use the brush provided for cleaning optic glass and laser port (aperture) lenses. Using the brush, remove dirt and debris from the mounting rails and controls. This should be done on a regular basis.

Always keep the Communication Port Plug fully installed to prevent ingress of foreign debris and to protect the port from corrosion.

INSTALLING AND REMOVING THE BATTERY

Remove Old Battery and Install New, Observing Battery Orientation, as Depicted Below.

Installing and Removing the *RAAM GSS* Battery

MODE SELECTION OPTIONS

KNOB POSITION	SUBMENU OPTION	MODE / FUNCTION DESCRIPTION
OFF		*RAAM GSS* Power Off.
FNC		Function Menu.
Display Bright		*Adjust Display Brightness - Automatic, Night Mode or M 1 (Manual, Dimmest) through M 8 (Manual, Brightest) (Dft = Automatic)*
Ammo 1 Set		*Assign Firing Table to Ammo 1 Quick Select switch position. WX HEDP, WX PRAC (Dft = First Table Stored on Unit)*
Ammo 2 Set		*Assign Firing Table to Ammo 2 Quick Select switch position. WX HEDP, WX PRAC (Dft = Second Table Stored on Unit)*
Reticle Shape		*Select Reticle Shape: Dot and Circle, Dot and Sides, Dot Only, Circle Only (Dft = Dot and Circle)*
Boresight		*Activates the red Visible Aiming Laser for Boresighting: Enable (Activates Red Laser), Disable (Dft = Disable)*
IR Laser Cant		*Enables or Disables Blink of the IR Aiming Laser When the Laser is Active and the Weapon is Canted: Enable/Disable (Dft = Enable)*
Built In Test		*Run Built In Test.*
Atmos Comp		*Atmospheric Compensation Enable/Disable. (Dft = Enable)*
Set Defaults		*Reset Persistent Storage to Factory Default .(Dft = Do Not Change)*
Event Log		*Display GSS Log of System Events.*
About…		*Displays the Software Version, Hardware Version, Battery Percentage and the version and date stamp for each ammo table.*
RD		Red Dot Sight Operation: On, Dft and Brightness Adjustment
AL		Aiming Low Power: IR Aiming Laser, Low Power On and Dft.
DL		Dual Low Power: IR Aiming Laser and Illuminator Low Power On and Dft.
DH		Dual High Power: IR Aiming Laser and Illuminator High Power On, Dft and Power Adjustment. (Can be Locked Out using Blue Lockout Screw)

MODE BUTTON OPERATIONS

Mode Selection Switch Positions	Left Button Operation	Center Button Operation	Right Button Operation
Laser Modes: **DH DL AL**	**Single Press:** Decreases laser power in DH mode when the laser is turned on. The selected power level persists through *RAAM GSS* power cycling.	**Single Press:** Active Laser On/Off.	**Single Press:** Increases laser power in DH mode when the laser is turned on. The selected power level persists through *RAAM GSS* power cycling.
Red Dot Mode: **RD**	**Single Press:** Dims the red dot.	**Single Press:** Turns the red dot On/Off.	**Single Press:** Brightens the red dot.
Function Menu: **FNC**	**Single Press:** Scroll up through available options.	**Single Press:** Select currently highlighted option.	**Single Press:** Scroll down through available options.

Manufactured by:

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CAUTIONS, WARNINGS AND NOTICES

▲ *WARNING* ▲

You are required to thoroughly read all instructions and product safety information in the Wilcox RAAM GSS Grenadier's Manual before using this product. FAILURE TO COMPLY WITH PROPER INSTRUCTIONS COULD RESULT IN PROPERTY DAMAGE, INJURY AND/OR DEATH. Wilcox is not responsible for damages resulting from improper use and/or maintenance. Customers may obtain a copy of the Manual by contacting Wilcox Customer Service at 603-431-1331.

Do not fire the weapon if the RAAM GSS displays a left or right cant indicator. Firing the weapon when the RAAM GSS is canted can cause unintended damage to surrounding targets and may result in injury or death.

■ *CAUTION* ■

Lithium Batteries can rupture and explode if exposed to fire, heat, electrical charge, or damage to the battery. Follow proper battery storage and maintenance procedures for handling of lithium batteries.

Verify range setting after each shot as needed.

Laser Safety Label

CLASS 3B LASER PRODUCT

Quick Reference Guide for the WILCOX RAAM™ GSS

Grenadier Sighting System

PN: 67800G01
CAGEC: 004F1

Primary Weapon

Both Options Configurable for Left– or Right-Handed Shooter

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ATTACHING THE RAIL MOUNT ASSEMBLY TO THE RAAM GSS

Step 1.) Position the flat of the Rail Mount Assembly against the *RAAM GSS* so that the bolt holes of the Rail Mount Assembly are aligned with the Cradle.

Step 2.) Insert the two hex bolts provided with the Rail Mount Assembly and lightly thread the screws for retention.

Step 3.) Finish threading the bolts CW with the 5mm hex key. When the bolts no longer turn by hand, turn with the hex key one quarter turn.

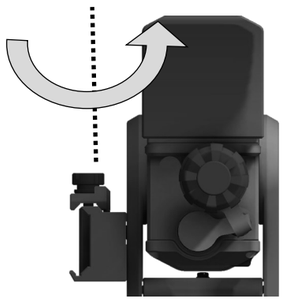
Attaching the Rail Mount Assembly to the *RAAM GSS*
(Depicted for Mounting to 0900 Rail Position for Right-Handed User)

ATTACHING THE RAAM GSS TO THE PRIMARY WEAPON

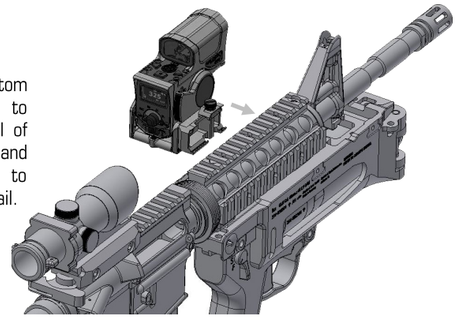
▲ *WARNING* ▲

Ensure that the weapon is CLEAR and on SAFE before proceeding, in accordance with its Operator's Manual.

STEP 1:
Loosen the Rail Clamp Screw CW on the Rail Mount Assembly.

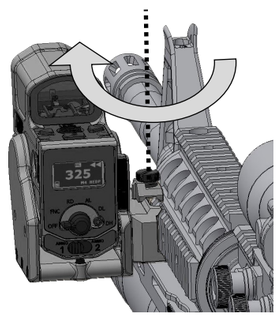


STEP 2:
Attach the bottom Rail Grabber to the bottom rail of the weapon and pivot inward to catch the top rail.



STEP 3:
Tighten the rail clamp screw by hand CW. Turn the screw another half of a turn CW.

Do not overtighten the Adjustment Screw.



Mounting the *RAAM GSS* to the MIL-STD-1913 Rail
(Left-Side Mounting Depicted)

DETACHING THE RAAM GSS FROM THE PRIMARY WEAPON

Holding the *RAAM GSS* firmly in one hand, follow steps for attaching in reverse.

TO PERFORM DAYTIME ENGAGEMENT WITH THE RAAM GSS

Step 1.) Configure your display brightness and Red Dot Sight shape appropriately to match operational conditions.

Step 2.) Rotate the Mode Selection Knob to the Red Dot (RD) mode position. Press the Left and Right Buttons on the *RAAM GSS* to adjust your Red Dot Sight brightness.

Step 3.) Select the desired firing table using the Ammo Quick Select Switch.

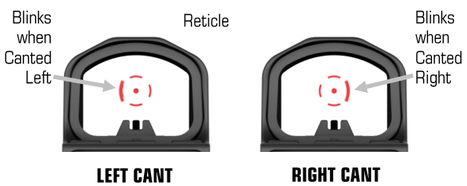
Step 4.) Rotate the *RAAM GSS* Sighting Module to the desired target distance and acquire the target using the Red Dot Sight.

Step 5.) Verify that the weapon is level to the horizon (not canted) by checking for cant indication. If the *RAAM GSS* is not level, cant indicators will appear. Tilt the weapon in the direction the cant indicator arrows point to correct cant.

Additionally, the left and right arc segments of the Red Dot Sight provide cant awareness by flashing when canted. The IR Aiming Laser will blink slowly when canted to the left, or quickly when canted the right.

Step 6.) Acquire the target. To minimize time to acquire the Red Dot Sight reticle, align the iron sights inside the Red Dot Sight and the reticle will come into view.

Step 7.) Fire the weapon.



***RAAM GSS* Reticle Display**

TO PERFORM NIGHTTIME ENGAGEMENT WITH THE RAAM GSS

Step 1.) Configure your display brightness and Red Dot Sight shape appropriately to match operational conditions. For optimal covert operation, set display brightness to Night Mode.

Step 2.) Rotate the Mode Selection Knob to the Red Dot (RD) mode position.
If Red Dot Sight use is desired for nighttime engagements, press the Left and Right Buttons on the *RAAM GSS* to adjust your Red Dot Sight brightness. Otherwise, press the Center button to disable the Red Dot Sight.

Step 3.) Rotate the Mode Selection Knob to the appropriate nighttime operational mode position (AL, DL, or DH).

Ensure that display brightness is set appropriately to match conditions.

Step 4.) Select the desired firing table using the Ammo Quick Select Switch.

Step 5.) Rotate the *RAAM GSS* Sighting Module to the desired target distance and acquire the target using laser(s).

Step 6.) Press the Center Button to activate the laser(s).

▲ *WARNING* ▲

When adjusting RAAM GSS range, use caution to ensure that lasers are not fired in an unsafe manner.

Step 7.) Verify that the weapon is level to the horizon (not canted) by checking for cant indication. If the *RAAM GSS* is not level, cant indicators will appear. Tilt the weapon in the direction the cant indicator arrows point to correct cant.

Additionally, cant indication is provided via blinking of the IR Aiming Laser in all nighttime operational modes. The aiming laser will blink slowly when canted to the left and will blink fast when canted to the right. A clever way to remember this is "**Slow/Left, Tight/ Right**".

Step 8.) Fire the weapon.

TO PERFORM ENGAGEMENTS WITH THE RAAM GSS POWERED OFF

The *RAAM GSS* can still be used to accurately engage targets without being powered on through the use of the iron sights and the backup range indicator.

Step 1.) Rotate the *RAAM GSS* until the alignment marking aligns with the range on the backup range indicator, matching the range of your intended target.

Step 2.) Look through the Red Dot Sight window and align the iron sights so that the front pin is centered between the two rear pins. Align all pins so that their heights match.

Step 3.) While maintaining the alignment of the Iron Sights, as described above, aim so that the top of the center pin is aimed at the target.

Step 4.) Ensure that the weapon is level to the horizon.

Step 5.) Fire the weapon.

BORESIGHTING THE RAAM GSS (10 METER BORESIGHT CHART METHOD)

The following procedure boresights the *RAAM GSS* to 200 meters using a 10 meter boresight chart. All three lasers and the red dot are co-aligned at the factory and are adjusted simultaneously.

Laser Boresight Procedure:

Step 1.) Ensure the weapon is stable and square to the ground. If possible, use a steady rest.

Step 2.) Rotate the *RAAM GSS* Sighting Module to the "0" position against the hardstop.

Step 3.) Set the boresight chart level with the weapon, 10 meters from the *RAAM GSS* front end.

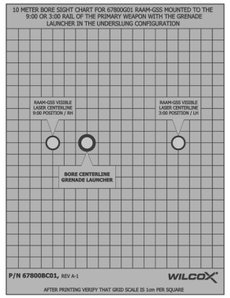
Step 4.) Install the Laser Boresight Kit for the GL as instructed in its operational instructions.

Step 5.) Zero the GL borelight in accordance with the instruction manual for the device.

Step 6.) Place the GL borelight laser on the Bore Centerline of the chart.

Step 7.) Enable Boresight Mode from the Function menu. This activates the visible boresight laser. Use right and left buttons to adjust the visible laser power up and down.

Step 8.) Adjust the *RAAM GSS* to the corresponding labeled position on the chart by rotating the Windage and Elevation Control Knobs. Use the cant indicators on the display while boresighting to ensure that the *RAAM GSS* is level.



Boresight Chart for the *RAAM GSS*