



# INSTALLATION INSTRUCTIONS FOR THE GLOCK HEXSITE® SIGHTING SYSTEM

The All New Superior Composite Construction HexSite® Sighting System is 100% Made in the U.S.A.

## **SAFETY FIRST—CONSUMER SAFE HANDLING WARNING!**

1. ALWAYS keep the gun pointed in a safe direction.
2. ALWAYS keep your finger off the trigger while handling firearms
3. ALWAYS unload and disassemble firearm prior to performing any service operations, e.g. Sight Installation.
4. ALWAYS wear eye protection when using tools and eye and ear protection while shooting.

## **CONTENTS OF HEXSITE® SIGHTING SYSTEM PACKAGE**

1. Three (3) Front Sights (0.150", 0.165", 0.180", printed at base of sight-face).
2. One (1) Front Sight Bolt (size 3-56 NF).
3. One (1) Rear HexSite® Sight Body.
4. One (1) Rear Doved Based-Plate.
5. One (1) Rear Sight Bolt (size M3x0.5 mm).
6. One (1) Rear Sight Bolt Allen Wrench.

## **NECESSARY TOOLS AND EQUIPMENT (NOT INCLUDED)**

1. One (1) 12 inch Ruler.
2. One (1) Padded Bench Vice.
3. One (1) Nylon Punch.
4. One (1) Dial Caliper/Depth Gauge (or equivalent depth measuring tool).
5. One (1) Fine Pick or pointed-nose tweezers.
6. One (1) Needle-Nosed Pliers.
7. One (1) Swiss Pattern Pillar File with safe edge (fine or #2 cut).
8. One (1) 3/16<sup>th</sup> Inch Thin-walled Nut-driver or Glock Front Sight Installation tool.
9. One (1) Toothpick (wood or plastic).
10. One (1) Q-tip.
11. CA Glue (i.e. Super Glue).
12. Isopropyl Alcohol (or other mild cleaner/degreaser).
13. Eye and ear protection.

## **PLEASE READ CAREFULLY BEFORE ATTEMPTING INSTALLATION OF THE HEXSITE® SIGHTING SYSTEM.**

The HexSite® Sighting System has been granted one (1) Utility (6,321,479B1) and four (4) Design Patents (413,645 / 429,789 / 420,888 / 450,800) because it is unique in concept, installation, and operation. It is the sole responsibility of each user to recognize this fact and to ensure that each HexSite® Sighting System is properly installed.

Before beginning installation, read the instructions from the beginning to the end and ensure that you thoroughly understand them.

**NOTE: If you are not familiar with the mechanics of your firearm, or if you are not skilled with the use of the tools required for HexSite® Sight installation, or if you do not have all the necessary tools or equipment specified, or if, for any reason, you are not 100% confident of your ability to perform the necessary installation tasks as illustrated in the instruction sheet, THEN WE VERY STRONGLY RECOMMEND THAT YOU HAVE THE INSTALLATION DONE BY A QUALIFIED GUNSMITH.**

**NOTICE! Failure to properly install the HexSite® Sighting System on your firearm may result in personal injury or death; damage to the HexSite® Sighting System; or damage to your firearm's appearance, functionality, and safety.**

Should you decide to install the HexSite® Sighting System on any firearm without the aid or assistance of a qualified gunsmith after reading the above information, warnings, and recommendations, you acknowledge, assume, and accept all responsibility for injury to yourself or others, as well as any damage that may result to the HexSite® Sighting System or the firearm's appearance, functionality and safety as a result of your installation of the HexSite® Sighting System.

**PLEASE NOTE: INSTALLATION BY OTHER THAN A QUALIFIED GUNSMITH WILL VOID ANY AND ALL PRODUCT WARRANTIES.**

If you decide to install the HexSite® Sighting System yourself and you need or desire additional technical assistance regarding its proper installation, you may contact us directly at (928) 284-1483, or email us at [tacsite@aspect1.net](mailto:tacsite@aspect1.net). This offer also applies to any gunsmith or other person involved in the installation of the HexSite® Sighting System.

**PLEASE READ BEFORE USING THE HEXSITE® SIGHTING SYSTEM**

Independent study results indicate that the HexSite® Sighting System improves, on a general basis, the speed and accuracy of target acquisition while the operator of the weapon is experiencing a Body Alarm Response (BAR) condition. However, no user should rely on such findings, and it is the sole responsibility of each user to determine the suitability of the HexSite® Sighting System for his or her own needs and applications. Goshen Enterprises, Inc. also strongly recommends that appropriate training and qualified instruction in the use of the HexSite® Sighting System be sought prior to use.

**LIABILITY DISCLAIMER**

By purchasing and installing the HexSite® Sighting System, the user acknowledges and agrees to hold harmless Goshen Enterprises, Inc., its owners, employees, agents, assigns, and affiliates for any and all legal actions arising from the purchase, installation, use or ownership of the HexSite® Sighting System; including, but not limited to any lawsuit or claim by the user or a third party for any bodily injury or death, or property loss or damage, or for any negligent or unlawful activity related in any way to the purchase, installation, use or ownership of the HexSite® Sighting System.

The user further indicates that he or she has read and understands the above liability disclaimer and that the user agrees to be bound by its terms.

**FIREARM DISASSEMBLY**

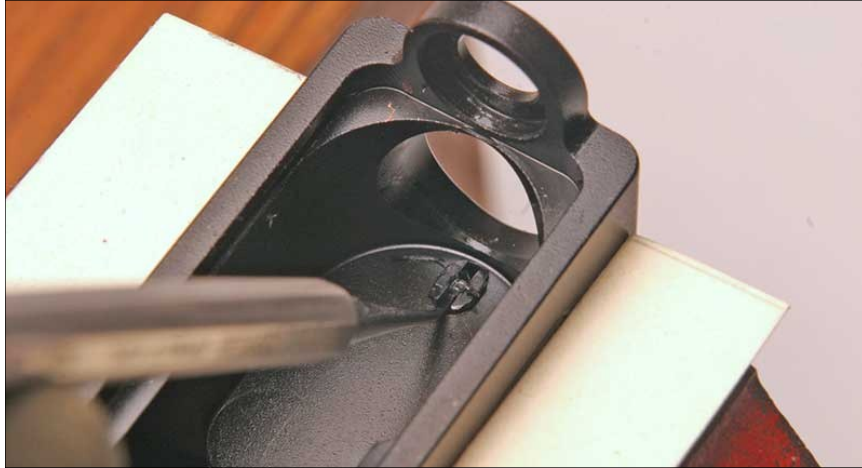
1. Remove the magazine, and all ammunition from the firearm.
2. Visually inspect the unloaded firearm to ensure that it is **unloaded!**
3. Remove the magazine and all ammunition from the installation area.
4. Remove the slide from the firearm frame and then the recoil spring and barrel from the slide (review the manufacturer's instructions).

## **[A] REMOVAL OF EXISTING SIGHTS**

### **[A1] Original Equipment Plastic Glock Front Sight**

Place the slide on a solid surface with the underside facing upward and the muzzle-end pointing away from the installer.

1. Remove the small locking wedge from within the front sight tenon using a pair of tweezers or a fine pick.  
**(Illustration A1-1)**



**Illustration A1-1**

2. Compress the sides of the sight tenon and push the sight downward out through the top of the slide  
**(Illustration A1-2)**. The front sight is now removed from the slide and should be resting on the installation surface.



**Illustration A1-2**

***Note: GLOCK pistols with OE factory installed night sights have a metal tenon that must be cut flush & pushed out with a small punch.***

***Note: Review the manufacturer's instructions for the removal of all other front sights.***

## **[A2] Glock Rear Sight**

*Note: With few exceptions, removal of original and aftermarket rear sights should be relatively similar; however, always review the manufacturer's instructions prior to removal.*

Place the slide in the upright position with the rear channel closest to the installer and the muzzle-end facing away, furthest from the installer.

- Using a properly shaped nylon punch or sight pressing tool, move the dove-tailed rear sight from left to right by slowly driving or drifting the rear sight from the slide (**Illustration A2-1**).



**Illustration A2-1**

You have now removed the sight from the channel and may proceed to the installation steps.

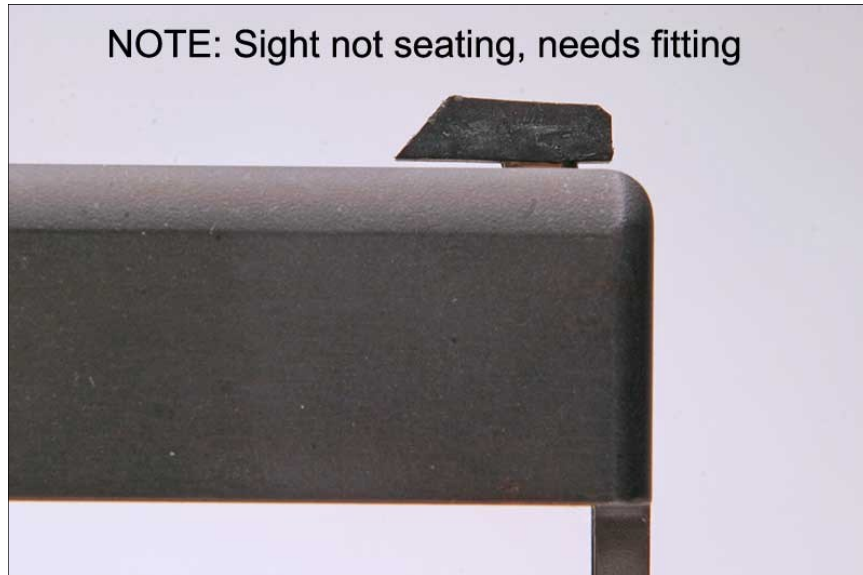
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**[B] INSTALL HEXSITE® SIGHTING SYSTEM**

**[B1] Installation steps for the front sight - HexSite® Honeycomb**

The slide should remain upright with the rear channel closest to the installer, and the muzzle-end facing away, furthest from the installer.

1. Test-fit the medium height (.165) front sight by placing the brass tenon into the oval hole at the muzzle end of the slide, and with the HexSite® Honeycomb facing rearward toward the shooter (**Illustration B1-1**).



**Illustration B1-1**

*Note: The front sight is designed to fit snugly when a moderate amount of pressure is applied to the top. If the front sight fits snugly, and the bottom of the front sight is flush with the top surface of the slide, then skip step 2 of this section and proceed to step 3. If the front sight does not seat snugly and flush with a moderate amount of pressure continue with step 2.*

2. Lightly file the front and rear curved surface area of the brass tenon with a fine-cut safety edge file until a snug fit is achieved (**Illustration B1-2**).



**Illustration B1-2**

3. Holding the inserted front sight in position with the tip of your finger, rotate the slide with the underside facing upward and the muzzle-end furthest from the installer.  
*Note: The brass tenon should sit just below the inside surface of the slide, to allow the retaining bolt to draw the sight tightly into a secure fit. If the tenon extends above the inside surface of the slide, proceed with step 4; otherwise you may skip step 4 and proceed to step 5.*
4. Lightly file the length of the brass tenon with a fine-cut safety edge file until it is just below flush with the inside surface of the slide (**Illustration B1-3**).



**Illustration B1-3**

*Note: You will need to temporarily remove the front sight from the slide while dressing the brass tenon. A small punch may be necessary to tap the brass tenon out from inside the slide. Be sure to re-insert the front sight once a proper fit is achieved.*

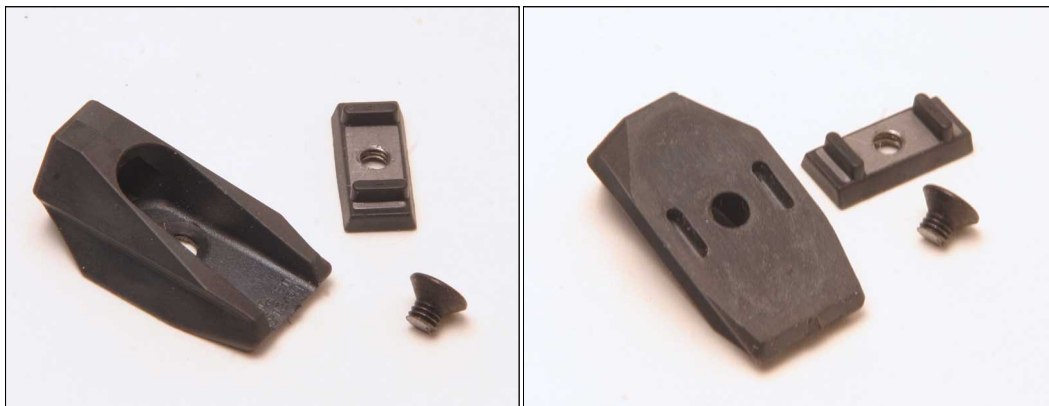
5. With a thin-wall 3/16" nut driver, install the retaining bolt; lightly tightening the front sight down to a finger-tight tension. Be careful not to cross-thread the bolt (**Illustration B1-4**). **DO NOT OVER-TIGHTEN [3-4 in. lbs. max]** and **DO NOT USE THREAD SEALANT**.



**Illustration B1-4**

*Note: If you are installing the HexSite® Sighting System on a Glock Model 30, 34, 36, OR 17L (long slide) contact Goshen Enterprises, Inc. for special assistance.*

**[B2] Installation of the rear HexSite® Aperture (Illustration B2-1)**



**Illustration B2-1**

Place the slide in the upright position in a padded heavy vice with the rear channel closest to the installer and the muzzle-end facing away, furthest from the installer.

1. Remove the dovetailed base-plate from the rear HexSite® body and insert the dovetailed base-plate from right to left into the rear dovetailed channel (**Illustration B2-2**) until the dovetailed base plate is centered with the middle of the slide.



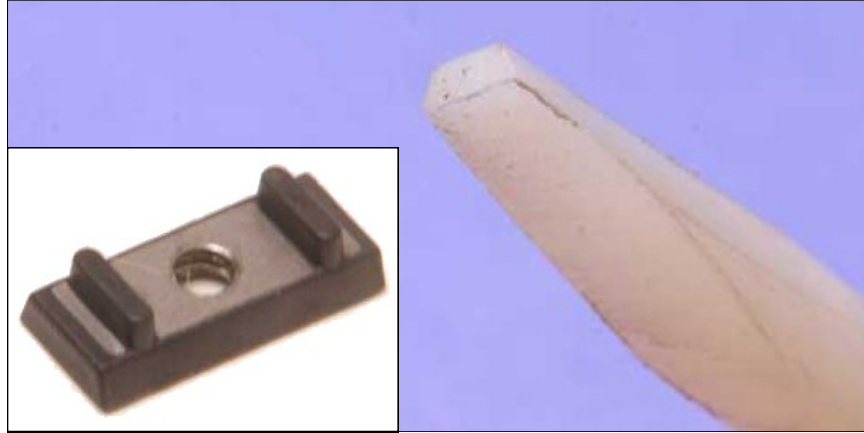
**Illustration B2-2**

*Note: Insertion of the dovetailed base-plate should start easily and then will meet some resistance. This is to insure a properly tight fit. You can overcome this resistance by using a sight pressing tool or a mallet & properly shaped non-marring punch (nylon, wood, brass, etc.). This shape should match the end face of the dove plate. (Illustration C-3)*

**DO NOT** use a round punch, damage will occur.

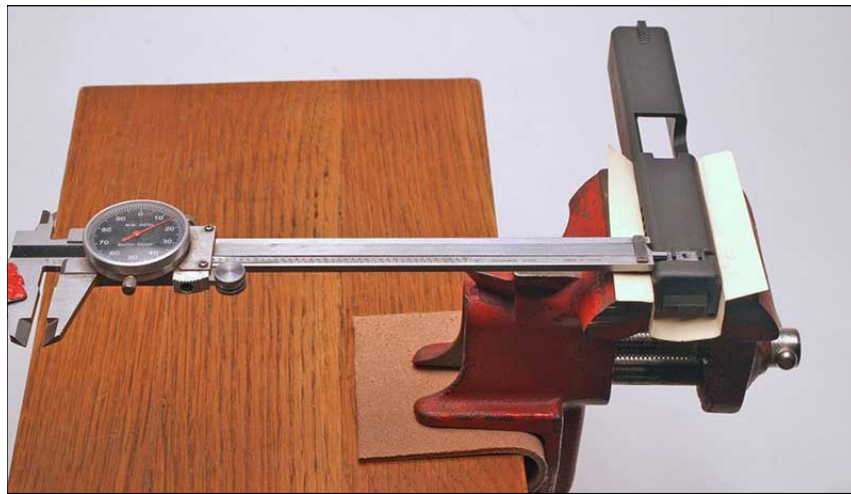
**Helpful Hint:** As with all dove type installations, light lubrication of the contact areas will make the insertion easier.

***CAUTION;*** *If you are using the punch and mallet method of installation. BE CAREFUL, DO NOT let the punch slip off the contact area and let it strike the locator tabs that are on top of the dove-plate! They can be severely damaged if this occurs.*



**Illustration B2-3**

2. Use a depth gauge/measurement tool to confirm that the dovetail base-plate is centered and make note of these measurements to assist you later on in making windage adjustments to the sight alignment (**Illustration B2-4**).



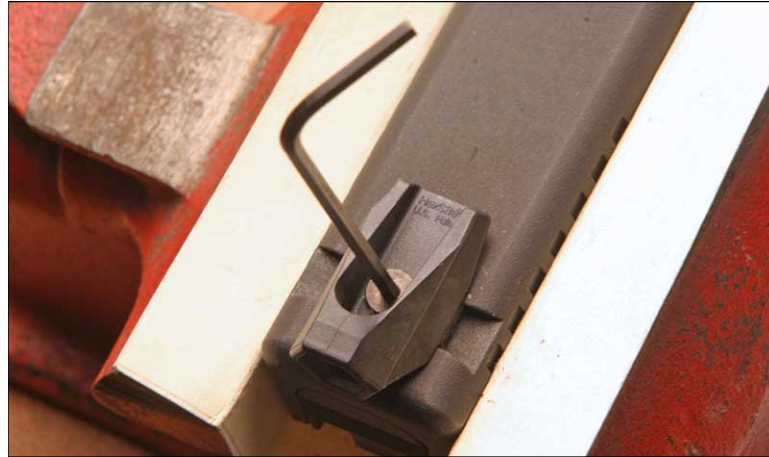
**Illustration B2-4**

- WRITE DEPTH MEASUREMENT HERE: **D**= \_\_\_\_\_  
D on the left should be equal to D on the right.

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3. Mount the HexSite<sup>®</sup> body to the dovetailed base-plate with the provided 3.5m.m. bolt, positioning the hexagonal aperture toward the rear of the Slide.

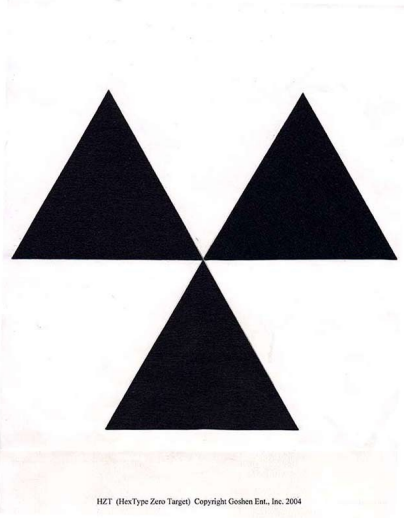


**(Illustration B2-5). DO NOT OVER-TIGHTEN [5-6 in. lbs. max] and DO NOT USE THREAD SEALANT.**



**Illustration B2-5**

*Note: This is only a temporary installation of the HexSite<sup>®</sup> Sighting System until all windage and elevation adjustments have been made.*

4. Reassemble the pistol and proceed to the range for test firing to check "Zero". We recommend using the included HEX Type Zero Target (HZT) (included on the last page of this manual) at a distance of ten (10) yards (**Illustration B2-6**).

|   |   |   |
|---|---|---|
|  |  | <p><b><u>“Hard Focus”</u></b></p> <p>Refined Monocular target shooting sight picture: Target out of focus with Front Sight crisp and clear. Use when shooting to determine the "zero" of pistol.</p>                |
|   |  | <p><b><u>“Soft Focus”</u></b></p> <p>Combat Binocular Target Focus: Sharp Binocular focus on Target, with "soft" sight picture superimposed on the Target. Use when engaging "threat" targets at combat ranges.</p> |

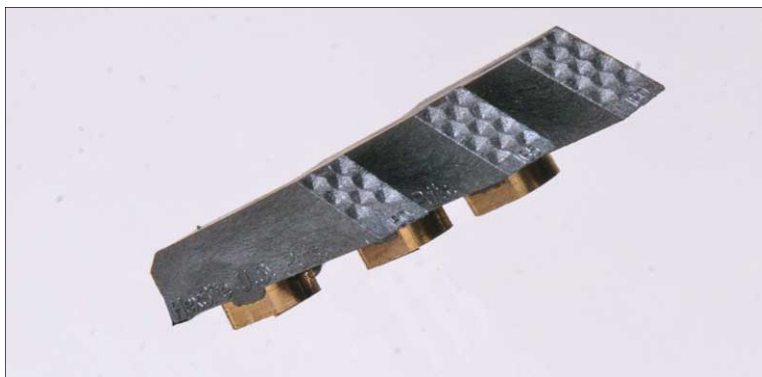
**Illustration B2-6**

*Note: If this is your first time shooting with the HexSite<sup>®</sup> Sighting System carefully read “Sighting Instructions” prior to test firing. The HexSite<sup>®</sup> is designed for combat, not bull’s-eye shooting; nonetheless the HexSite<sup>®</sup> is most effective with a true point of aim. Because the rear aperture is more open than a traditional sight, it may initially require greater focus and control in order to achieve representative groupings. However, once installed, sight alignment becomes second nature because the HexSite<sup>®</sup> works with the physiological responses to a fight or flight situation.*

## **[C] SIGHT ALIGNMENT ADJUSTMENTS**

Unload and disassemble the firearm; following steps 1 thru 5 of the “Disassembly Section” from the 2nd page.

### ***[C1] Front Sight Selection, each w/ HemisHex(tm), sighting aid cut***



**Illustration C1-1**

1. Select the appropriate front sight, based on the elevation of your shot-group. (**Illustration C1-1**)
  - a. If the shot-group is high, then select the tall (0.180”) front sight, to lower the group by one (1) inch when shooting from 10 yards.
  - b. If the shot-group is low, then select the short (0.150”) front sight, to raise the group by one (1) inch when shooting from 10 yards.
  - c. If the shot-group is level, then select the medium (0.165”) front sight, which you should have already installed.

*Note: If your shot-groups were either high or low, and you had to select a different front sight than the medium (0.165”) front sight previously installed, then you will need to remove the installed front sight, and may need to perform steps 1 thru 5 of the “Install front sight” section [B1] with the appropriate front sight selection. If the front sight was installed snugly and flush, then a small punch will be needed to push the sight out from the inside of the slide.*

If the three (3) included front sights do not sufficiently adjust your shot-group high or low, contact Goshen Enterprises for additional selections.

If and once the appropriate front sight is selected and installed proceed to “rear sight adjustment”.

### ***[C2] Rear Sight Adjustment***

Place the slide in a padded heavy vice, in the upright position with the rear channel closest to the installer and the muzzle-end facing away, furthest from the installer.

1. Determine if the shot-group is to the left or the right of the middle of the target. You can draw a center-line down the middle of the target to help estimate the distance of the shot-group from the center-line “Zero”.  
*Note: If the shot-group is adequately centered then you may skip the rest of this section.*

Calculate the distance to move the rear sight either right or left, in order to achieve a true “Zero”. For accurate adjustments use this formula:

$$S = (G \times R)/360$$

S = rear sight movement needed to achieve centered windage.

**G** = distance of the shot-group from the target center-line

**R** = sight radius

**360** = distance in inches of the shooter from the target (10 yards).

2. Measure the sight radius; this is the distance from the rear of the front sight to the rear of the rear sight in deci-



**Illustration C2-1**

mal inches (**Illustration C2-1**)

- write it here: **R** = \_\_\_\_\_
3. Determine how much correction toward the center-line you wish to make in your shot-group. This also must be done in decimal inches.
    - write it here: **G** = \_\_\_\_\_
  4. Multiply R times G,
    - write it here: **R x G** = \_\_\_\_\_
  5. Divide the answer by 360,
 

write it here: **S** = \_\_\_\_\_

For a basic adjustment without mathematical calculations refer to the chart titled “**Glock Models**”. Identify Glock Model and Sight Radius (“R”) on the top row, then select the distance you wish to move the shot-group in the left-hand column, and follow appropriate column down to the desired adjustment to determine **S** (SEE NOTE \*).

*Note\*: There are no expressed or implied warranties for the accuracy and use of this chart. This chart is for illustrative purposes only, and should not be solely relied upon in order to achieve accurate windage adjustments.*

6. Loosen the rear sight bolt one complete turn.
7. Go back to page 2, and copy the depth measurement from the “Install rear sight” section:
  - Write it here: **D** = \_\_\_\_\_

|    |      | Glock Models |       |         |       |         |       |
|----|------|--------------|-------|---------|-------|---------|-------|
|    |      | G17/G22      |       | G19/G23 |       | G26/G27 |       |
|    |      | R=           | 6.49  | R=      | 6.02  | R=      | 5.67  |
| G= | 0.25 | S=           | 0.005 | S=      | 0.004 | S=      | 0.004 |
| G= | 0.50 | S=           | 0.009 | S=      | 0.008 | S=      | 0.008 |
| G= | 0.75 | S=           | 0.014 | S=      | 0.013 | S=      | 0.012 |
| G= | 1.00 | S=           | 0.018 | S=      | 0.017 | S=      | 0.016 |
| G= | 1.25 | S=           | 0.023 | S=      | 0.021 | S=      | 0.020 |
| G= | 1.50 | S=           | 0.027 | S=      | 0.025 | S=      | 0.024 |
| G= | 1.75 | S=           | 0.032 | S=      | 0.029 | S=      | 0.028 |
| G= | 2.00 | S=           | 0.036 | S=      | 0.033 | S=      | 0.032 |
| G= | 2.25 | S=           | 0.041 | S=      | 0.038 | S=      | 0.035 |
| G= | 2.50 | S=           | 0.045 | S=      | 0.042 | S=      | 0.039 |
| G= | 2.75 | S=           | 0.050 | S=      | 0.046 | S=      | 0.043 |
| G= | 3.00 | S=           | 0.054 | S=      | 0.050 | S=      | 0.047 |
| G= | 3.25 | S=           | 0.059 | S=      | 0.054 | S=      | 0.051 |
| G= | 3.50 | S=           | 0.063 | S=      | 0.059 | S=      | 0.055 |
| G= | 3.75 | S=           | 0.068 | S=      | 0.063 | S=      | 0.059 |
| G= | 4.00 | S=           | 0.072 | S=      | 0.067 | S=      | 0.063 |

*“D” must be equal on both the left and right side of the base plate.*

8. Add S plus D for “A”; the adjusted depth measurement;  $S+D=A$

- Write it here:  $A=$  \_\_\_\_\_

9. Press or lightly tap the rear sight (**Illustration C2-2**), contacting only the side of the dovetailed base-plate, and in the appropriate direction and distance. **Always move the rear sight the same direction you wish the shot-**



**Illustration C2-2**

**group to move.**

**DO NOT CONTACT THE SIGHT BODY WHEN TAPPING THE BASE PLATE.**

- a. If the grouping shot to the left of center, then use a depth measurement tool on the left-hand side of the sight to confirm that the base plate is a depth of “A” as noted above.
  - b. If the grouping shot to the right of center, then use a depth measurement tool on the right-hand side of the sight to confirm that the base plate is a depth of “A” as noted above.
10. Retighten the rear sight bolt and confirm adjustment has not moved.

**DO NOT OVER-TIGHTEN [5-6 in. lbs.] and DO NOT USE THREAD SEALANT.**

*Note: You may wish to repeat the range test before you lock the sights into position. If you decide to repeat the range test, repeat steps 1 thru 6 of this section. However, remember that “D” was measured when the sight was “centered” with a Depth gauge; if you made adjustments prior to the retest, then “A” will replace “D” for the subsequent calculations.*

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**[D] LOCK THE HEXSITE® SIGHTING SYSTEM INTO POSITION**

*Note: Be sure to lock front & rear sight bolts before putting pistol into service.*

Unload and disassemble the firearm; following steps 1 thru 5 of the "Disassembly Section" from page 1.

***There are two procedures you can use to secure the two bolts of the HexSite® Sighting System.***

1. A 'light-strength' thread sealant (blue) may be used on these bolts.
2. The preferred method is to use a very **small** amount of CA glue (Cyanoacrylate or "Super Glue") around the heads of the bolts, both front and rear.
  - a. clean and degrease the surface area of the underside around the front sight retaining bolt (**Illustration D-1**).



**Illustration D-1**

- b. Using a tooth pick applicator "dab" a small controlled amount of CA glue around the Front Sight Bolt Head (**Illustration D-2**).



**Illustration D-2**

- c. For the Rear Sight Bolt, back the bolt out and apply a small amount of CA glue with a tooth pick in the chamfer (countersink) cut around the bolt hole.

- d. Quickly re-tighten the bolt to a snug finger tight pressure, **DO NOT OVER-TIGHTEN [5-6 in. lbs.] (Illustration D-3).**



**Illustration D-3**

Using this process will allow the bolts to be removed at a later time without causing damage to the HexSite® Sighting System or to the pistol.

### **HexZite-22 Material Information**

The **GOSHEN HexSite® Glock Sighting System** is manufactured to exacting standards using advanced composite polymer **HexZite-22™** designed to withstand the elements, absorb the shock of impact and resist normal abrasion during the life of your firearm. The **HZ-22™** is fiber reinforced and performs as well as, or better than, comparable steel sights. With a tensile strength near 40,000 PSI, **HZ-22™** is an incredibly strong polymer used for metal replacement applications and is perfectly suited for use atop your pistol. **HZ-22™** is very rigid with a tensile modulus near 3,000,000 psi at 68F. **HZ-22™** has excellent resistance to mechanical stresses with a flexural strength that can attain over 55,000 psi at 68F. **HZ-22™** is easily molded, maintains its strength even in thin walled sections, has low mold shrinkage and holds its size and shape over time. **HZ-22™** produces an excellent surface finish and the fiber reinforcement will help it stay that way as it resists abrasion. **HZ-22™** has high thermo-mechanical properties with a flexural modulus at 284F of over 700,000 psi.

## **HexSite® Sighting Systems Limited Lifetime Warranty**

HexSite® Sighting Systems products are warranted to be free from defects in material and workmanship. There are no implied warranties. Damage resulting from abnormal, abusive or improper use or installation of HexSite® Products is not covered by this limited lifetime warranty. Notwithstanding the aforementioned exceptions, the manufacturer reserves the right, at its discretion, to replace accidentally damaged HexSite® products that were not damaged as a result of negligent behavior.

- If during normal use, there is evidence of defect in material or workmanship in a HexSite® product;
- or
- If during a non-negligent commonplace-type accident a HexSite® product becomes damaged in such a way as to prevent proper usage;

then:

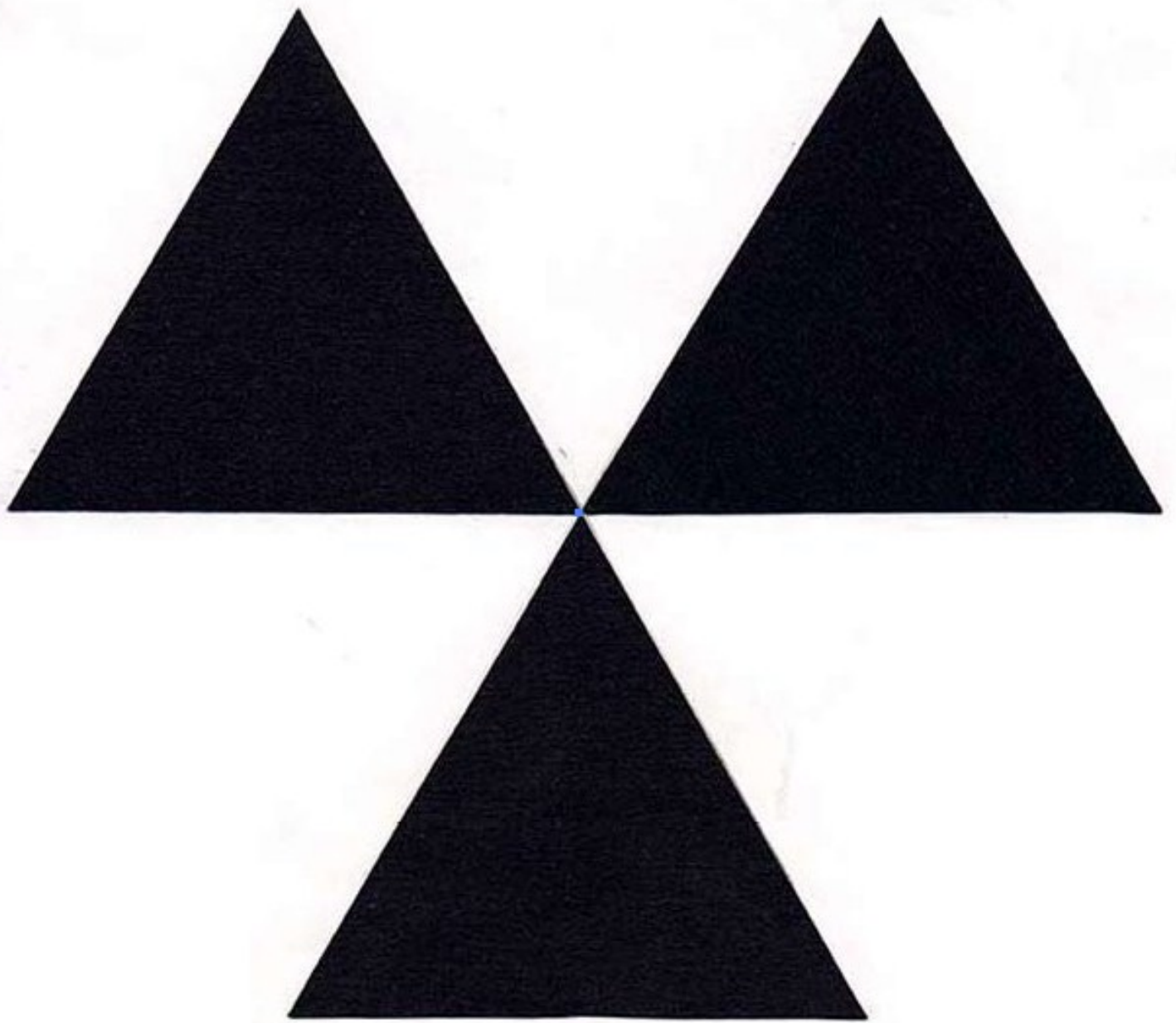
Remove the HexSite® Product from the firearm upon which it has been installed, and return the product, a copy of proof of purchase, and a brief but detailed description of how and when defect or damage occurred. Send to:

**Goshen Enterprises, Inc.,  
P.O. Box 20489,  
Sedona, AZ 86341-0489.  
www.Goshen-HexSite.com**

In the event you do not have proof of purchase, contact Goshen Enterprises, Inc. for prior authorization of claim on the Limited Lifetime Warranty.

**All claims on the Limited Lifetime Warranty  
shall receive full and timely consideration.**

DoubleHex(tm), DHX-M4(tm), DHX-Hextra(tm), HexTra(tm), HemisHex(tm), DHX(tm), and HZT(c) [Hex Zero Target] are recognized terms associated with the HexSite(R) Sighting System



HZT (HexType Zero Target) Copyright Goshen Ent., Inc. 2004