



PEBBLE

Reflex Sight User Manual

PB10RD: Bodyguard 2.0 Dovetail Mount, Red Illumination

PD10GN: Bodyguard 2.0 Dovetail Mount, Green Illumination



Thanks for choosing Gideon Optics. This short manual will help you understand the features of your new optic, how to mount it, how to change the battery, and how to use it.

Battery Warning

Reese's Law, 16 CFR 1263

- Remove and immediately recycle or dispose of used batteries according to local regulations and keep away from children. Do NOT dispose of batteries in household trash or incinerate.
- Even used batteries may cause severe injury or death.
- Call a local poison control center for treatment information.
- Battery Type: CR1632
- Nominal battery voltage: 3V
- Non-rechargeable batteries are not to be recharged.
- Do not force discharge, recharge, disassemble, heat above the manufacturer's specified temperature rating, or incinerate. Doing so may result in injury due to venting, leakage or explosion resulting in chemical burns.
- Ensure the batteries are installed correctly according to polarity (+ and -).
- Do not mix old and new batteries, different brands or types of batteries, such as alkaline, carbon-zinc, or rechargeable batteries.
- Remove and immediately recycle or dispose of batteries from equipment not used for an extended period of time, according to local regulations.
- Always completely secure the battery compartment. If the battery compartment does not close securely, stop using the product, remove the batteries, and keep them away from children.

TORQUE SPECS TIGHTEN SCREWS TO 12 (TWELVE) INCH POUNDS

WARNINGS:

1. DO NOT observe the sun directly while looking through the optic. The lens coatings are not dark enough to prevent damage to your eyes if you look directly at the sun.
2. Never put this product in a place close to a heat source or a place of high temperature for an extended period of time, like an oven. If you want to change colors, please use the air-dry variants of Duracoat / Cerakote or simple spray paint.
3. Never leave the optic, mounts, batteries or screws in reach of children or pets, to avoid the potential danger of swallowing.

Specifications

Magnification: 1x

Lens Dimensions: 14.8mm tall x 15.2mm wide

Elevation/Windage adjustment range: 35 MOA (Total 70 MOA)

Reticle: 3 MOA Dot

Color: Red or Green Emitters

Parallax Free: Beyond 33 yards

Brightness Setting: 10 levels (8 Daytime, 2 NV Compatible)

Power Supply: 1x CR1632 3V Lithium battery

Auto Wake/Sleep: 225 Seconds after no movement

Shockproof & Waterproof

Dimensions: (LxWxH) 43.9mm x 21mm x 27.3mm

Deck Height: 7.5mm

Weight (with battery installed): 0.84 oz

How to Install/Change the CR1632 Battery

Pebble features a side mounted battery compartment so the removal of the optic from its mount is not necessary when changing batteries. Using the flat head screwdriver included in the box, loosen the battery compartment screw by turning in counter-clockwise direction. You can then use the included tool to pry open the side battery tray using the ledge built into it. Be gentle, it should not take very much force at all! Remove the old CR1632 battery and replace with a new one. The “+” side should face down, towards the slide. With the battery in place, carefully slide the tray back into the housing until it is flush against the optic body. Then tighten the battery compartment screw. Be careful not to cross-thread to avoid damage to the threads. To avoid stripping out the battery compartment screw, do not over tighten it. There is no torque spec on the screw, just stop turning when it no longer turns.

Power On

Press the “+” shaped UP button (on the left side of the optic body) to turn on the sight.

Motion Activation

Pebble features an automatic timeout and motion sensitive “shake to awake” feature. If the optic senses no movement or vibration for 225 seconds, the dot will turn off and the optic will enter a low power state, extending battery life. When the optic is bumped or moved, the dot will immediately power on and return to the previously selected brightness level. The motion sensor is very responsive—when carrying a firearm with Pebble mounted, or when placed in a vehicle with the engine running, the unit will remain awake continuously.

Power Off

Pebble can be completely powered off by holding the “-“ shaped DOWN button (on the left side of the optic body) for three seconds.

NOTE: This is a complete power off that disables the motion-sensitive “wake” function. This is recommended for long term storage, or travel when the optic will not be used. After being shut down manually, Pebble will return to the previously selected brightness level when powered back on with a press of the “+” button.

Brightness Adjustment

Pebble is equipped with 10 brightness settings. Use the UP and DOWN buttons to quickly toggle through the different brightness levels. Always select the lowest brightness setting that still provides good contrast against the target. The higher brightness settings should only be used in bright daylight (otherwise, the reticle will bloom and possibly distort). The two lowest settings are intended for use in conjunction with night vision devices only.

Button Lock-out

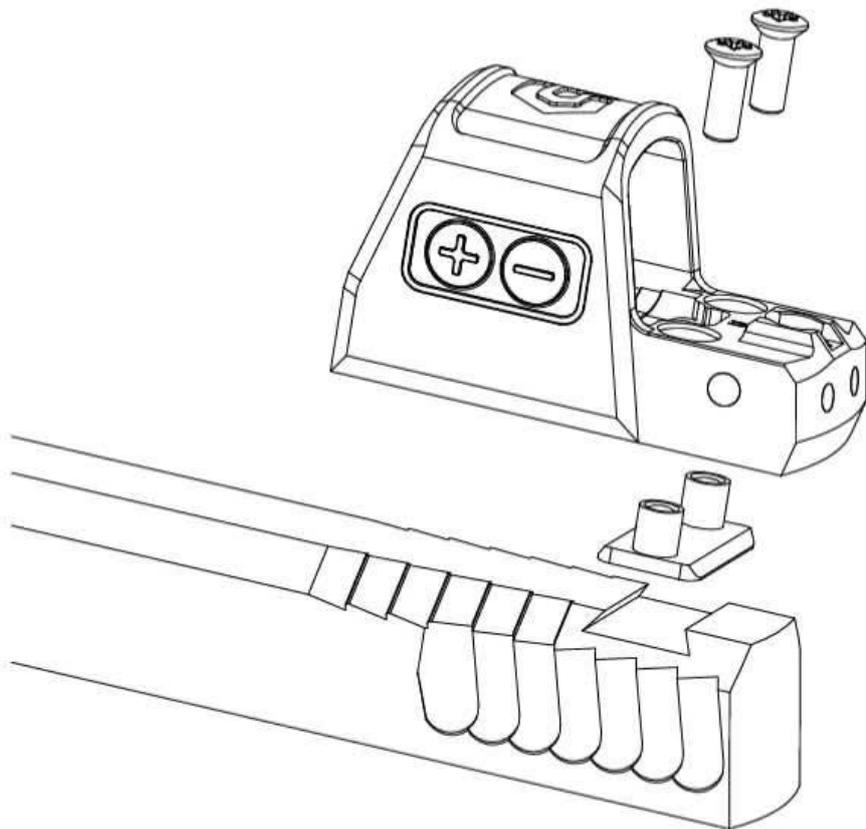
Pebble features a "lock-out" mode to help prevent inadvertent brightness changes or powering off during carry. To lock your buttons, press and hold the "+" PLUS button for 5 seconds. To deactivate lock-out and restore normal button functions, press and hold the PLUS button for 5 seconds again.

Mounting the Sight

Installation by a reputable gunsmith is highly recommended. Due to variances in dovetail cut sizes, it may be necessary to plane/sand the bottom surface of your Pebble dovetail insert in order to install it without damage.

Pebble is intended to direct mount onto the slide of Smith & Wesson M&P Bodyguard 2.0 pistols only. It is not compatible with any other pistol slide or system. Use a sight pusher tool or carefully apply a hammer and punch to remove the rear sight from the slide dovetail, then install the included dovetail mount for Pebble in its place. Attempt to center the dovetail mount relative to the slide as best you can, but any small imperfections in alignment can be compensated for during the zeroing process.

With the dovetail mount in place, press Pebble straight down onto the slide, aligning the holes in the scope body with the posts of the dovetail mount. Install the provided screws and torque them down to just twelve inch pounds. Optionally applying a tiny drop of blue threadlocker directly to the screw threads can help prevent the screws from loosening up due to the vibrations of firing.



Parallax

Pebble has been carefully designed to be parallax free at 33 yards. At distances closer than 33 yards, parallax shift should be so minor that it is irrelevant. At distances significantly greater than 33 yards, some parallax may be observed. To reduce the possibility of a point of impact (POI) shift caused by parallax for precision shooting at longer distances, the reticle should be kept in the middle 2/3 of the field of view when aiming.

Reticle, Elevation/Windage Adjustment

Pebble uses a 3 MOA dot reticle. The elevation and windage dials do NOT feature audible and tactile clicks, but are tensioned to remain in place once adjusted. For zeroing and precision shooting, always select the lowest brightness setting that still provides good contrast against the target to help the reticle be as crisp and sharp as possible.

Zeroing

Please note that the reticle comes from the factory “centered” in the middle of its adjustment range. Only minor windage and elevation adjustments should be required to zero. If significant adjustments appear necessary, please make sure the sight is properly mounted. This is not a defect of the optic. Adjustable mounting bases (or shims) may be required for certain applications.

After properly mounting the optic to the firearm, fire a 3-shot group and observe the point of impact using an average of the group. Initial zeroing at shorter ranges is recommended before fine-tuning the optic for longer ranges. Zeroing at extremely short distances (10 yards or closer) will likely not provide a true zero at longer ranges due to the angle created by the optic’s centerline height over bore.

Using the included T10 wrench, set the elevation dial (top of optic) and the windage dial (side of optic) to adjust the alignment of the reticle. The rotation directions engraved on the optic refer to point of impact shift, not the position of the dot inside the window. After making your adjustments, fire another 3-shot group to confirm the change in point of impact. Repeat as necessary.

Maintenance:

CLEANING THE LENS

Blow away any dust or grit on the lens surface before wiping the lenses. Gently wipe the lenses clean with a soft and dry cloth. Glass cleaner is fine to use but keep harsh solvents and other gun cleaning chemicals away from the lens.

STORAGE

If possible, Pebble should be stored in a cool and dry place. Remove the battery from the battery compartment if the optic is to be stored for an extended period of time.

NOT USER SERVICABLE

DO NOT attempt to disassemble any components of the Pebble reflex sight. There's nothing in there you can fix. Disassembling the optic will void the warranty.

Limited Lifetime Warranty

Your Gideon Optics product is guaranteed for life against manufacturer defects or accidental breakage. If your product fails to function during normal and intended use, Gideon Optics will repair or replace it at our discretion, following evaluation by our service team. Cosmetic damage is not considered a covered "failure"—for example, if your optic is scratched and/or dented and has the finish rubbed off of it but still functions correctly, then it still works. Intentional abuse is likewise not covered—leave the torture tests to the guys on YouTube. Refinishing a Gideon Optic will not void the warranty provided you used an air dry type coating only. Do not put optics in ovens to "cure" a custom finish. In the event that a refinished optic must later be returned, you will receive a standard optic with black finish in exchange.