



**LEUPOLD®**

## CDS INSTALLATION GUIDE

### BDC Dial Instructions

#### Installation of CDS, M2, and M3 style BDC dials:

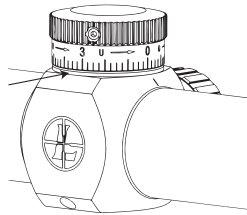
Zero the rifle with the original dial before installing the custom bullet drop compensating (BDC) dial. Zero at the Zero Distance you provided when ordering the dial. The Zero Distance will also be the lowest number engraved on the BDC dial.

Remove the original dial by loosening the set screw(s) located on the knurled rim of the dial. Lift the dial upward and clear of the adjustment mechanism.

Place your new BDC dial on the adjustment mechanism and turn it clockwise until the Zero Distance is aligned with the witness mark on the riflescope and the dial hits the Zero Stop (if present). Tighten the set screws (Max torque 5 inch-pounds).

#### Important Note on Non-Locking CDS/BDC Dials

After removing the original dial, check for a flexible rubber gasket around the base of the adjustment. If present, you must remove this gasket before installing your custom BDC dial. To remove grip the edge of the gasket and lift straight up away from the body of the scope.



#### Installation of CDS-ZL and CDS-ZL2 style BDC dials:

Zero the rifle with the original dial before installing the custom bullet drop compensating (BDC) dial. Zero at the Zero Distance you provided when ordering the dial. The Zero Distance will also be the lowest number engraved on the BDC dial.

Remove the original dial by loosening the set screw(s) located on the knurled rim of the dial. Lift the dial upward and clear of the adjustment mechanism.

Place your new BDC dial on the adjustment mechanism and turn it clockwise until the Zero Distance is aligned with the witness mark on the riflescope and the dial hits the Zero Stop (if present). The dial may not drop fully onto the adjustment until this alignment is done. Tighten the set screws (Max torque 5 inch-pounds).

#### Installation of CDS-TZL, VX-3i LRP, VX-6 Target style BDC Dials

Zero the rifle with the original dial before installing the custom bullet drop compensating (BDC) dial. Zero at the Zero Distance you provided when ordering the dial. The Zero Distance will also be the lowest number engraved on the BDC dial.

Remove the original dial by loosening the set screw(s) located on the knurled rim of the dial. Lift the dial upward and clear of the adjustment mechanism.

The new BDC dial will have a rotating skirt with a tooth that protrudes toward the inside center of the dial. Align the tooth with the notch of the adjustment before placing the BDC dial onto the scope. If needed, turn the dial clockwise until the Zero Distance is aligned with the witness mark on the riflescope and the revolution indicator shows "0". Tighten the set screws (Max torque 5 inch-pounds).

#### Installation of CDS Target, M1, and M5 style BDC dials:

Zero the rifle with the original dial before installing the custom bullet drop compensating (BDC) dial. Zero at the Zero Distance you provided when ordering the dial. The Zero Distance will also be the lowest number engraved on the BDC dial.

Remove the original dial by loosening the three set screw(s) located on the knurled rim of the dial. Lift the dial upward and clear of the adjustment mechanism.

Place your new BDC dial on the adjustment mechanism and rotate it until the Zero Distance is aligned with the witness mark on the riflescope. Tighten the set screws (Max torque 5 inch-pounds).

#### Notes on Sighting In:

- Zero your scope at the distance you provided when ordering your custom BDC dial. The Zero Distance will also be the lowest number engraved on the BDC dial.
- Only zero your rifle at the distance your dial was made for. Zeroing high at 100 yards in order to be dead on at 200 yards may result in an error that will compound when dialing for longer distances.
- If you need to dial down to zero your rifle, you may hit the Zero Stop on the dial before you are able to move the bullet impact down far enough. If this happens, loosen the set screw(s) and remove the dial from the adjustment mechanism, turn the adjustment mechanism by hand to complete your zero, and replace the dial onto the adjustment.

#### Driver Sizes for BDC Dial Set Screws

	Driver Size
CDS, CDS Target, VX-6 Target	.050"
CDS-ZL, CDS-ZL2, CDS-TZL, M2 (1.5-5x20 only), M3 (10x40 only)	3/32"
VX-3i LRP, M1, M2, M3, M5	1/16"

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# Installing the VX-6 CDS Dial and Zero Stop Assembly

## These instructions apply to the VX-6 (not VX-6HD)

### Included Items:

- Custom CDS Dial with three .050" set screws
- Zero Stop Ring
- Pressure-Sensitive Double Stick 3M Adhesive Ring
- 5/64" Hex Wrench
- .050" Hex Wrench

**CAUTION: Always verify that the firearm is unloaded and safe before working on the rifle or riflescope.**

It is recommended that you read these instructions completely and thoroughly prior to installing the CDS Dial and Zero Stop Assembly. Pay close attention to step 7, as the correct placement of the Zero Stop Ring is critical for the proper function of the CDS Dial Zero Stop. If you have questions prior to or during installation, please contact Leupold Technical Service at ProductSpecialist@leupold.com, 1-800-Leupold (538-7653), or (503) 526-1400.

### Installation:

1. Unscrew and remove the elevation adjustment dial cover. (The elevation adjustment dial is located on top of the scope, and the windage adjustment dial is located on the right side of the scope from the shooters position.) **(Figure 1)**
2. Remove the plastic elevation adjustment dial by lifting straight up. Once the dial is removed you will see the adjustment gear ring and two 5/64" hex head screws. **(Figure 2)**
3. Using the supplied 5/64" hex wrench, remove both screws and take off the adjustment gear ring. **(Figure 3)**
4. Using isopropyl alcohol on a soft clean cloth, thoroughly clean the flat surface around the raised shoulder of the adjustment assembly and the surfaces of the Zero Stop Ring. **(Figure 4)**  
Note: The Leupold Custom Dial System is designed to provide a hard stop that limits the dial to one revolution. This prohibits over/under rotating the dial once it has been zeroed. If you DO NOT want the hard stop feature, allowing for multiple revolutions of the dial, proceed to step 9.
5. Peel the Pressure-Sensitive Double Stick 3M Adhesive Ring from the backing paper and place the ring (adhesive side down) onto the Zero Stop Ring as shown in figure 5. The adhesive ring must be fully aligned with the Zero Stop Ring. Be sure to press down evenly around the entire adhesive ring. **(Figure 5)**
6. Gently peel the remaining backing paper from the top of the adhesive ring. It is now time to install the Zero Stop Ring.
7. The Zero Stop Ring is flat on one side with a raised Dial Stop Tab on the other. It is extremely important that the Zero Stop Ring is installed with the LEFT EDGE of the Dial Stop Tab aligned with the Zero Index Mark on the maintube. Carefully place the Zero Stop Ring (flat side with adhesive ring down) onto the raised shoulder of the adjuster assembly with the LEFT EDGE of the Dial Stop Tab aligned with the Zero Index Mark on the maintube. **(Figure 6)**
8. Press firmly and evenly around the entire Zero Stop Ring for 20-30 seconds to allow the pressure-sensitive adhesive to activate. Note: Allow the adhesive to cure for 24 hours before using the CDS dial.
9. Place the CDS dial on the elevation adjustment turret (loosen the three .050" hex head set screws if necessary). Align the starting zero number on the dial (usually "1" for a 100 yard/meter zero, or "2" for a 200 yard/meter zero) with the Zero Index Mark on the maintube, and then tighten the three .050" hex head set screws. Caution: Do not over tighten! **(Figure 7)**

### Zeroing:

We recommend that you zero your scope at the shortest distance engraved on your CDS dial. Most custom ballistic dials begin at 1 (100) or 2 (200) yards/meters. After you have achieved zero, simply loosen the set screws on the dial spin it back until the appropriate range reference number lines up with the Zero Index Mark on the maintube. For example, if you zeroed the rifle at 100 yards/meters, spin the dial to the 100 yard/meter mark and tighten the set screws. If you installed the Zero Stop Ring and run into the Zero Stop before achieving the amount of adjustment necessary to reach your desired point of impact, simply loosen the set screws and turn the dial away from the zero stop  $\frac{1}{2}$  to  $\frac{3}{4}$  of a turn and retighten the set screws. Once sighted in, reset the dial to zero as above.

