

# Black Ops Rotor Cable Detangler

## Tools Needed



Nickel  
x2



Dime  
x1

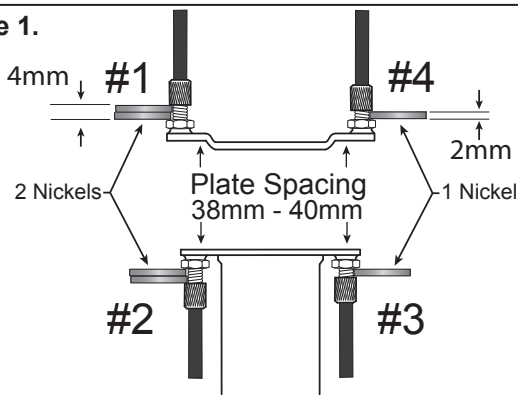


Brain  
x1

## Instructions

1. Screw the brake lever adjusting barrel and upper cable splitter all the way in.
2. With the handlebars forward, set adjusting barrels #3 and #4 so that a nickel will fit between the locknut and barrel as shown in **Figure 1**.
3. Tighten locknuts on adjusting barrels #3 and #4.

Figure 1.



4. Adjusting barrels #1 and #2 should be set so that **two** nickels will fit between the locknut and barrel end. **DO NOT TIGHTEN**

*NOTE: #1 and #2 locknuts are left loose because only 2 adjustment barrels are needed to remove play from the detangler.*

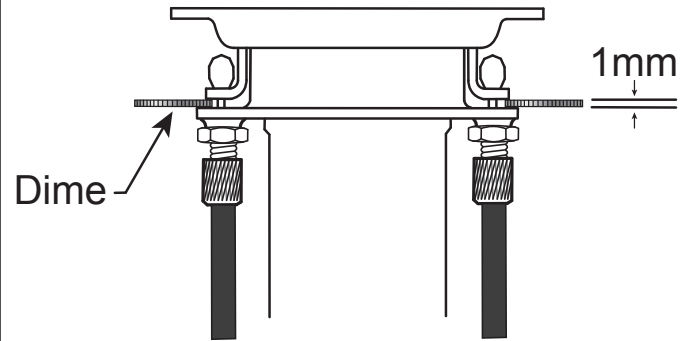
## Bearing Spacing

5. Use the upper cable splitter adjusting barrel and brake lever adjusting barrel to remove slack from the upper cable and lift the bearing off the lower plate about the thickness of a dime (1mm - 3mm) as shown in **Figure 2**.

**IMPORTANT:** If the bearing can't be set between 1mm and 3mm from the lower plate, then do the following:

(A) Repeat step 1. (B) Check that the upper cable housings are seated. (C) Check that upper and lower plates are spaced between 38mm and 40mm.

Figure 2.



## Bearing Adjustment

6. Turn the handlebars forward and rock them forward and back (Do not rotate) to make the bearing "flop". While rocking the handlebars with one hand, tighten the adjusting barrel #1 until the "flop" or play is removed.

**IMPORTANT:** If adjusting barrel bottoms out before play is removed, tighten adjusting barrel #2 until play is gone.

7. Use a felt marker to draw a line on adjusting barrel #1. You will use this line as a reference to count the number of turns used to loosen adjusting barrel #1 in the next step.
8. Turn the handlebars backwards and rock them back and forth to make the bearing flop. While rocking the handlebars, loosen adjusting barrel #1 until the play is removed from the bearing, counting the number of turns it takes.
9. Using the line drawn in step 7, tighten adjusting barrel #1 half of the number of turns you counted in step 8. (For example: half of 1-1/2 turns "IN" would equate to 3/4 turn "out".)
10. Spin the handlebars continuously while tightening the adjusting barrel until the bearing play is removed.

*Note: It may be necessary to repeat steps 6-9 a second time, but final adjustment should not require more than one half turn.*

**IMPORTANT:** Tightening the locknuts can change your adjustments, so adhere to the process detailed below.

11. Once the detangler is adjusted to your preference, tighten the locknut on adjusting barrel #2 and spin the handlebars to check your adjustment. Keep tweaking adjusting barrel #2 until it is locked and adjusted. After finishing #2, repeat the process for adjusting barrel #1.

For further assistance contact your local Black Ops Dealer

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