



## Power Cordz and Housing Installation

POWER CORDZ™

1. First time installations of brake and derailleur cables may take 1 to 2 hours. Note original routing of cables and housing before removing. Cut new housing to match original (Fig. 1). Use awl to clean out and re-round housing ends.

2. **\*Important\*** At no time can the Cordz come in contact with a sharp surface, edge, or burr on your bicycle's frame. Check for any sharp edges and file down or note their location. You will use the included protective liners (plastic tube sections), or nosed ferrules over Cordz when installing.

3. Feed Cordz through shift or brake levers making sure they are fully seated. At point of exit from the shifter, you will use the smaller 45° short-nosed ferrule (included in Power Cordz Systems) to protect Cordz within the shift lever. **\*Campy groupos\*** may need the EZ-Bend adapters (included in our **brake** systems), to protect the cord.

4. Lube the Cord as you push it through ferrules and housing. Use nosed ferrules where Cordz exit housing (fig. 2a, 2b) and protective liner where Cordz cross hard edges or under the bottom bracket (Fig. 3). Pull Cordz back and forth through each component of housing system to find high drag places and reduce the ferrules noses length or reroute as necessary to minimize friction. Finish installing housing.

**5. Ferrule Placement-** Included with your Power Cordz system are 4 sizes of nosed ferrules. The 45° short-nosed ferrules will be used where the cordz exit the shifter, and the flat-nosed through the braze-ons. The longer nosed ferrules will be used through the barrel adjusters. If you receive a kit with same length noses, cut them to size with a scissor.

Please note that derailleur systems include **one** small-diameter long nosed ferrule (shorter of the three long-nosed ferrules). This will be used exclusively through the barrel adjuster on the rear derailleur (Fig. 4).

### Tools:



Cable Cutters



Allen Wrenches  
Size 4 or 5mm



Awl



Third-Hand  
Tool/Clamp (for  
Brake Install only)

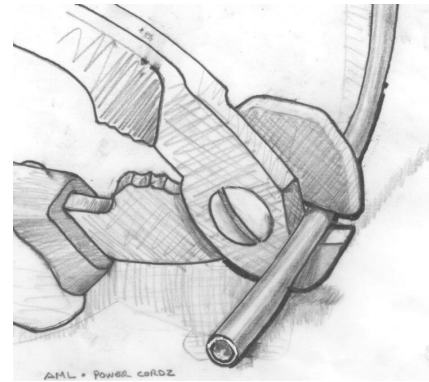


Fig. 1—Cut new housing to match original

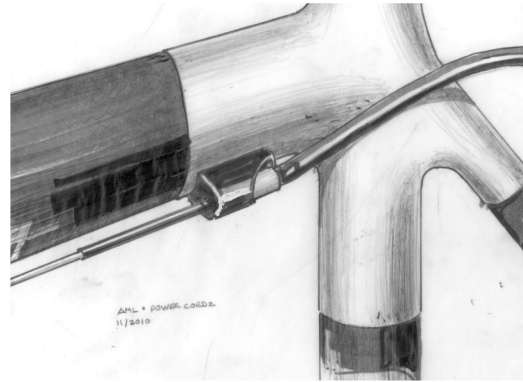


Fig. 2b—Nosed ferrule, Cordz enters housing

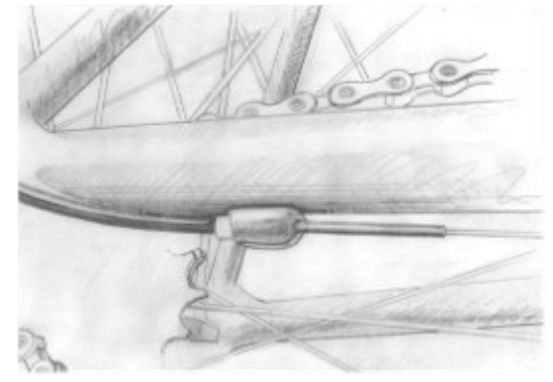


Fig. 2a—Nosed ferrule, Cordz exit housing

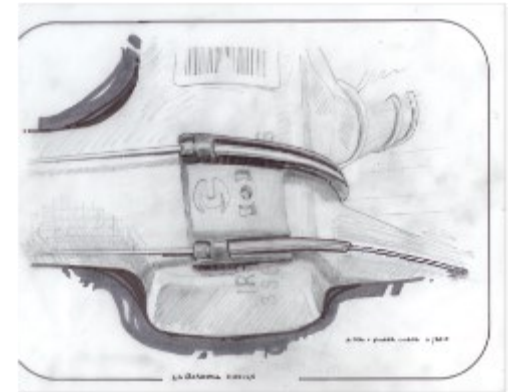


Fig. 3—Protective liner where Cordz cross under the bottom bracket

### Ferrules: Derailleur



3x—Flat-nosed/Braze-on



2x—  
45° short-  
nosed



2x—Long-nosed for  
Barrel Adjuster  
1x—Long-nosed  
for rear derailleur

### Ferrules: Brake



4x—Flat-nosed/Braze-on



2x—Long-nosed for  
Barrel Adjuster



2x—45° short-nosed

2x —EZ-Bend





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**IO**  
IO PRODUCTS llc.

### Derailleur Cordz

6. Screw barrel adjusters half way in and align chain onto middle gear on rear cassette.

7. Place Grommet Clasp over component anchor bolts, under stock washer (Fig. 6).

8. Run Cordz under anchor bolt and washer following the same entry path of original cable so Cordz follows hollow of Grommet Clasp. If your bike has a protruding edge on the anchor bolt of the front derailleur, cut and use small piece of included liner (fig. 5) **Wrap Cordz 360 degrees around anchor bolt.** Tighten bolt enough to hold Cordz but no more at this time.

9. Crank the pedals and shift up and down a couple times. Look to see that all ferrules and housing segments are fully seated and that the Cordz' tension is close enough to adjust with barrel adjuster and limit screws.

10. If the tension is not correct, adjust and repeat from step 8. Otherwise, fully tighten anchor bolt and continue to step 11.

11. If necessary, use high and low limit screws to align high and low gears. Use barrel adjuster to tune all other speeds while focusing on precision shifting from larger (more teeth) to smaller (fewer teeth) gears.

### Brake Cordz

6. Screw barrel adjusters *almost* all the way *out* (so cable tension can be loosened later in install process).

7. Place Grommet Clasp over component anchor bolts, under stock washer.

8. Clamp brake pads tight against the rim using third-hand clamp (see tools). Install to widest rim in use on bike.

9. Run Cordz under anchor bolt following the same entry path of original cable. **Wrap Cordz 360 degrees around anchor bolt while creating an overhand knot** (fig. 7).

10. Pull Cordz tight and, using a finger to hold underside of knot in place, tighten knot around the anchor bolt (fig. 7). Tighten bolt enough to hold Cordz but no more at this time.

11. Release clamp and squeeze brake levers. Look to see that all ferrules and housing segments are fully seated and that the Cordz' tension is close enough to adjust with barrel adjusters.

12. Fully tighten Cordz or loosen anchor bolts and repeat from step 8.

13. Use barrel adjusters to fine tune Cordz' tension.

\*Visually inspect brakes and squeeze brake levers prior to every ride.

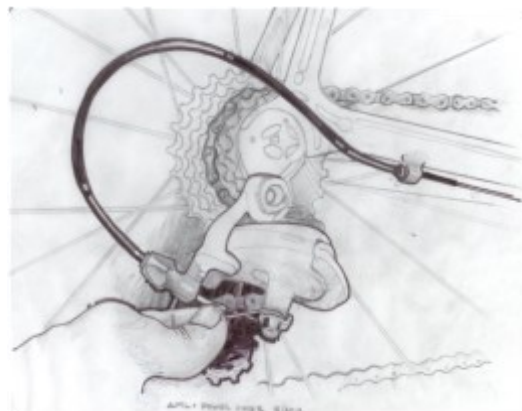


Fig. 4 — Rear derailleur setup

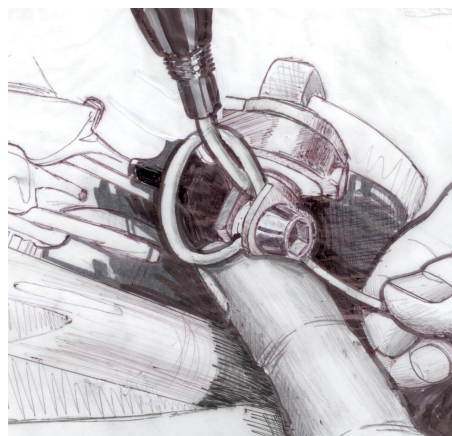


Fig. 7—Wrap Cordz 360 degrees around anchor bolt while creating an overhand knot.

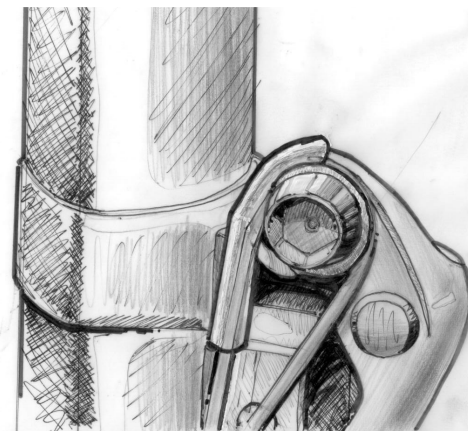


Fig. 5 — Front derailleur setup with protective liner

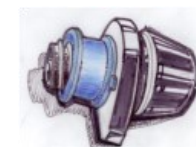


Fig. 6—Grommet Clasp over component anchor bolt

For installation videos and further instructions, please visit:

**[powercordz.com/installation](http://powercordz.com/installation)**

Or call us at 208.908.0630

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