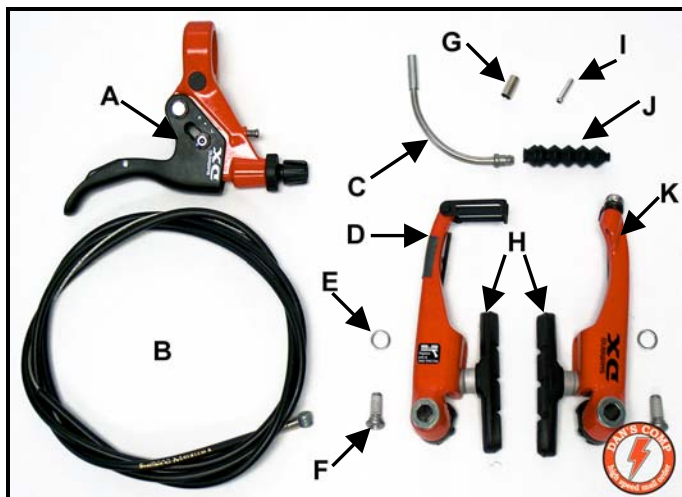


Shimano DX Linear Pull Brake Kit Installation



Included Parts

- A. DX Brake Lever
- B. Shimano Brake Cable
- C. Inner Cable Lead
- D. Left Brake Arm
- E. Fixing Bolt Washers (*Qty 2*)
- F. Fixing Bolts (*Qty 2*)
- G. Cable Housing Ends (*Qty 3*)
- H. Brake Pads (*Qty 2*)
- I. Cable Ends
- J. Boot
- K. Right Brake Arm

Shimano DX Linear Pull Brake Kit. Part #482030

Tools Needed

1. Cable Cutters*
2. Tube of Grease
3. 3 Way Allen Wrench (4,5,6mm)*
4. Philips Screwdriver
5. File or Sandpaper



** Tools used from the Professional tool kit. Part # 811110
Park PCS-1 Home Work Stand Part # 811356
Phil Wood grease 3oz. Tube. Part # 811195*



Preparing the Brake Bosses

- Inspect your brake bosses.
- Use a file or fine sandpaper to lightly sand the bosses. This should remove all unnecessary dirt, grit or paint that would prevent your brake arms from making proper contact.
- Use a small amount of grease to lubricate the outer surface of the bosses.

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Shimano DX Linear Pull Brake Kit Installation



Installing the Brake Arms

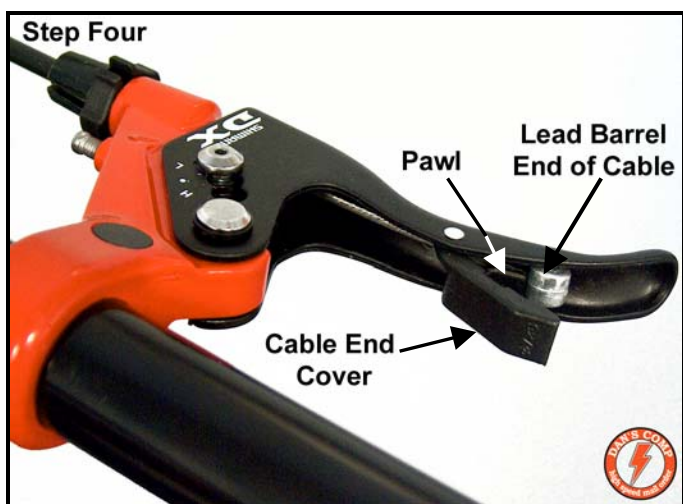
- Slide the brake arms over the brake bosses and wipe off any excess grease.
- Insert the stopper pin of the brake body into the spring hole in the frame mounting boss. If your frame has three holes, use the middle hole.
- Place a fixing bolt washer on the fixing bolts and thread them into the brake bosses and tighten completely with a 5mm allen wrench.

Adjusting the Brake Pads

- Use a 5mm allen wrench to loosen the nut on the brake pad.
- Push the brake arm towards the rim until the pad is flat against the side of the rim and the curve of the pad is parallel to the curve of the rim.
- You can rearrange the spherical washer on the brake pads if need more or less space between the rim and the pad.
- Tighten the nuts securely once you have the pads located so they do not rub on the tire or hang below the sidewall of the rim.

Tip 1: File or sand the flat braking surface of the pads. This will remove the hard, slick surface and will help improve braking.

Tip 2: Spin your wheel to make sure the brake pads is NOT making contact with your tire.

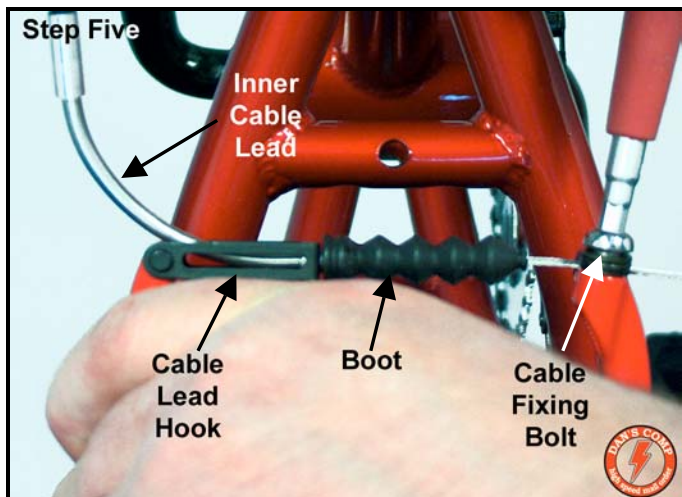


Installing the Brake Lever and Cable

- Slide the lever onto the handlebars and install your grip. Adjust the position of the lever and tighten the allen bolt with a 5mm allen wrench.
- Cut your cable housing to the desired length. Slide a cable housing cap over the end of the cable housing.
- Open the cable end cover and insert the lead barrel end of the brake cable, pull the lead barrel end completely through the lever and place it behind the pawl. Snap the cover closed (See Picture).
- Align the slots in the adjusting barrel and nut with the slot in the lever and insert the cable into the adjusting barrel.
- Completely thread the adjusting barrel and nut into the lever.
- Insert the inner cable into the cable housing and pull it completely through.

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Shimano DX Linear Pull Brake Kit Installation



Attaching the Cable to the Brake Arms

- Insert the inner cable and cable housing into the inner cable lead.
- Insert the end of the inner cable lead into the cable lead hook on the left brake arm.
- Slide the boot over the inner cable and slip it on to the pointed end of the inner cable lead.
- Loosen the cable fixing bolt with a 5mm allen wrench.
- Run the inner cable under the black plate located under the cable fixing bolt and finger tighten the bolt.
- Squeeze the brake arms together with one hand and pull the inner cable with your other hand. Make sure the inner cable lead is still in the cable lead hook.
- There should be approximately a 1mm gap between the brake pads and the rim.
- Tighten the cable fixing bolt with a 5mm allen wrench.

Finally...

- Squeeze and release the brake lever a few times to stretch the brake cable, adjust the cable tension by turning the adjusting barrel on the brake lever if necessary.
- Adjust the spring tension for both arms by using a small philips screwdriver. Turning the screws clockwise will add tension and counter-clockwise will lessen the tension. Make sure both brake pads hit the rim and release at the same time. (See Picture).
- Cut the excess from the brake cable leaving approximately 1" – 1 1/2" for you to install and crimp cable ends.
- Lightly crimp a cable end cap using a pair of wire cutters. This will keep the cable from fraying. You can substitute an old spoke nipple if you do not have cable end caps.



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