



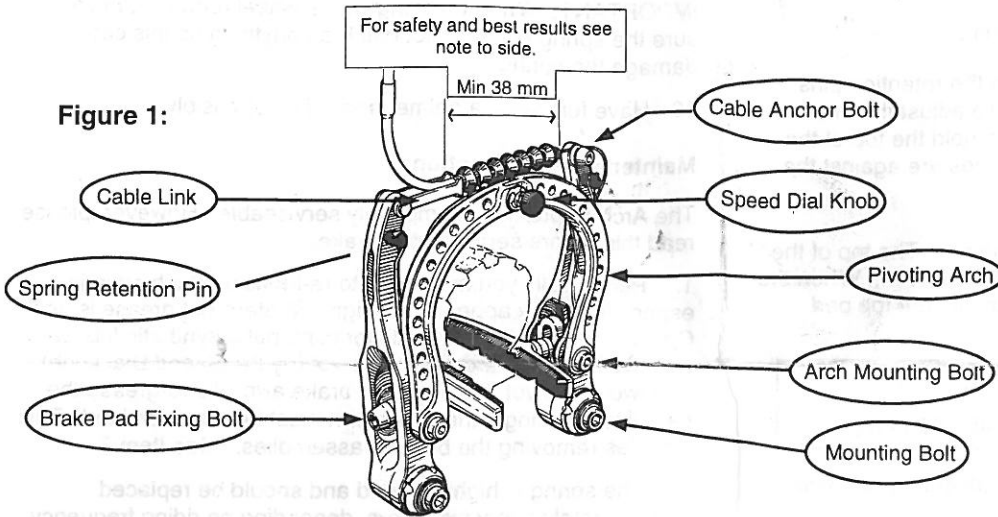
# ARCH SUPREME™ BRAKE INSTALLATION INSTRUCTIONS

## Important Safety and Performance Note:

It is important, when installing / adjusting these brakes to have the distance, with both brake pads against the rim, between the edge of the cable link and the inside of the right brake arm (with Cable anchor bolt) be between 52 and 59 mm (about 2" and 2 3/8"). This adjustment will allow for optimal spring tension.

For safety reasons this distance MUST be at least 35mm.

Figure 1:



Congratulations on purchasing Arch Supreme™ Brakes. We are confident they will provide you with unprecedented levels of performance and enjoyment.

**Failure to read and abide by these instructions will result in a severe reprimand and/or stern looks from the Avid staff.**

Seriously, brakes are one of the most safety critical items on a bicycle. Improper set-up or use of brakes can result in loss of control or an accident, which could lead to a severe injury. Direct-pull cantilevers, such as the Arch Supreme brakes, offer greater power than center-pull cantilevers which have been the industry standard. This greater power requires less effort to lock-up a wheel when braking. It is the responsibility of the owner/rider to learn proper braking techniques (such as brake lever pressure, and when to brake). We suggest you consult your owner's manual and professional bike dealer, and practice your riding and braking techniques prior to aggressive riding.

### IMPORTANT - PLEASE READ

The Arch Supreme is a technically unique product which may initially appear complex. Do not let the appearance fool you: It is easy to install, but please observe two very crucial steps:

- 1) Washers are supplied that need to be placed on the brake bosses prior to installing the brake arms. **These must be used**, as they avoid the possibility of the precision bearings binding on brake bosses.
- 2) Install the arms onto the brake bosses first. Then attach the arch. If you try attach the arms with the arch already installed, you may damage the arch.

### Installation of the Brakes:

Follow these instructions carefully. If you do not understand them, or feel unsure of properly installing the brakes yourself, have the steely-eyed bike man at your favorite shop inspect your brake installation, or have him install them for you.



**Hot Tip:** Prior to installing the brakes, spin the wheel and true it as necessary.

1. Make sure the brake bosses are clean and free of debris.

**IMPORTANT:** Grease the bosses and slide the enclosed thin 13mm diameter washers onto the brake bosses. Then slide the brake arms onto the bosses and secure with the enclosed mounting bolts. Use a 5 mm hex to tighten them.

Tighten Mounting Bolts to:

**Tightening Torque: 5 - 7 Nm (40 - 60 in lb)**

2. The brake arms should freely rotate on the bosses without resistance. Now install the pivoting arch using the arch mounting bolts and washers. Make sure the washers are properly seated on the arch before tightening the bolts.

Tighten Arch Mounting Bolts to:

**Tightening Torque: 4 - 5 Nm (35 - 40 in lb)**

**NOTE:** After installing the pivoting arch, make sure the brake arms still rotate freely on the brake bosses. If they are not, it could mean your brake bosses are out of alignment. Take your bike to your bike shop to get it examined.

3. While holding both brake pads against the rim, measure the distance from the link to the inside edge of the opposite brake arm. This distance should be between 52 - 59mm, and never less than 35 mm (see Fig. 1). Switch the spacer washers on the pad to achieve this distance.

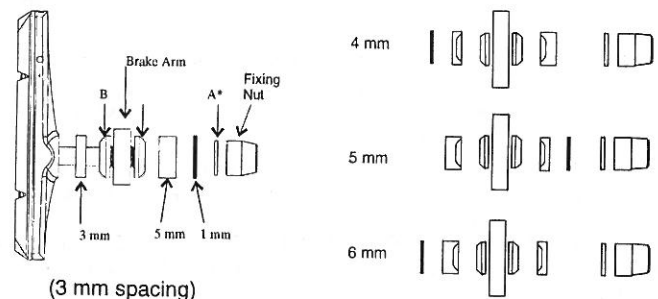


Figure 2:

\* The "A" washer is polished and must always be next to the nut.

Each brake shoe has a 1, 3, and 5 mm spacer washer (see Fig. 2).

These spacers will allow you to achieve the correct amount of