SUNTOUR
CANTILEVER BRAKE

Model: CT-XP10(Code No.62689921)
Model: CT-XD20(Code No.62729921)

INSTRUCTIONS FOR SUNTOUR XC-PRO AND XCD "SE" CANTILEVER BRAKES

CHECKED 05 MAR 2010

Caution: These "SE" cantilever brakes are made for use as rear brakes only, and are not designed for use as front brakes.

1 Apply a light coat of grease to the braze-on studs before installing the cantis. Use the sequence shown in figure 1 to assemble the cantilever assemblies onto the braze-on studs.
Lightly tighten the mounting bolts with a 5mm allen wrench.
Do not overtighten the arms as they should be free to pivot fully without rattling on the studs.
This will facilitate shoe positioning in step 2.

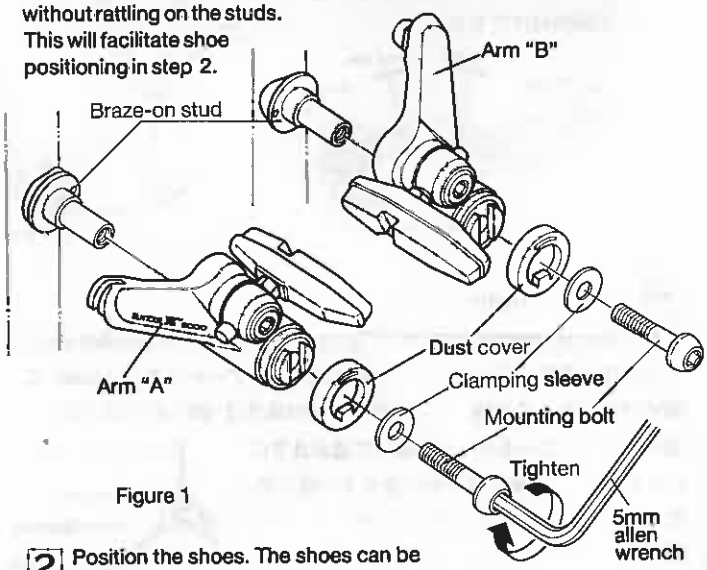
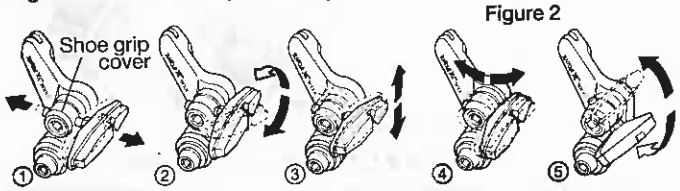


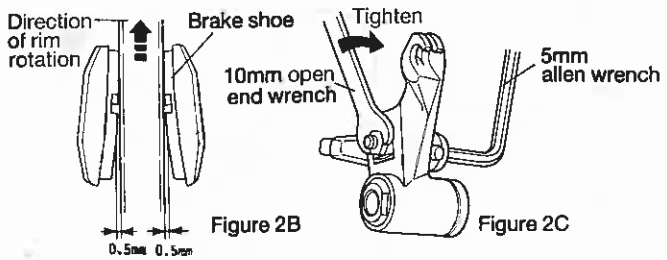
Figure 1

2 Position the shoes. The shoes can be adjusted in five directions, as shown in figure 2A.
Note: the plastic shoe grip cover encircling the shoe's post and the eyebolt is designed to grip the shoe during adjustment and prevent unwanted movement before the shoe mounting hardware has been tightened. This makes precise adjustments simpler.

Figure 2



Position the shoes as shown in figure 2B. Each shoe should have enough toe-in to leave 1/2mm of clearance at the trailing end of the shoe as the leading end just begins to touch the rim (note direction of rim rotation). When you're satisfied with the shoe position, tighten the shoe mounting hardware using a 5mm allen wrench and a 10mm open end or box wrench. (Figure 2C) The shoe grip cover will hold the shoe so both your hands can be free for tightening the hardware.



3 Loosen the mounting bolts, and rotate each arm away from the rim until there is 1/4" (6mm) of clearance between each shoe and the rim. Then, holding each arm in position, tighten each 5mm allen mounting bolt to a torque of between 80 and 90 kgf/cm (Figure 3A).

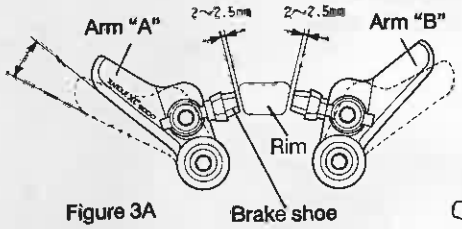


Figure 3A

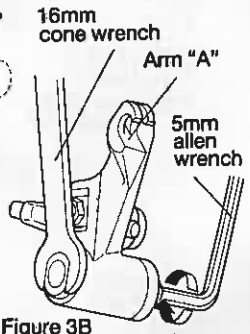


Figure 3B

4 Install the transverse cable by first inserting the cable end into the cable socket of arm "A", and then threading the other end of the cable through the cable clamp assembly on arm "B". Shorten the transverse cable until each segment is at right angles to the arm it's connected to (figure 4)* and each shoe is between 2mm and 2.5mm away from the rim (Figure 3B).

* During this operation, keep the transverse cable tight by pulling it upwards at its center with one hand, and adjusting its length with the other.

When the transverse cable is the correct length, tighten the cable clamp assembly on arm "B", and trim and cap the exposed end. Then, install the cable hanger onto the brake cable, and clamp it high enough along the brake cable to allow each shoe to return to between 2mm and 2.5mm away from the rim.
Trim and cap the brake cable.

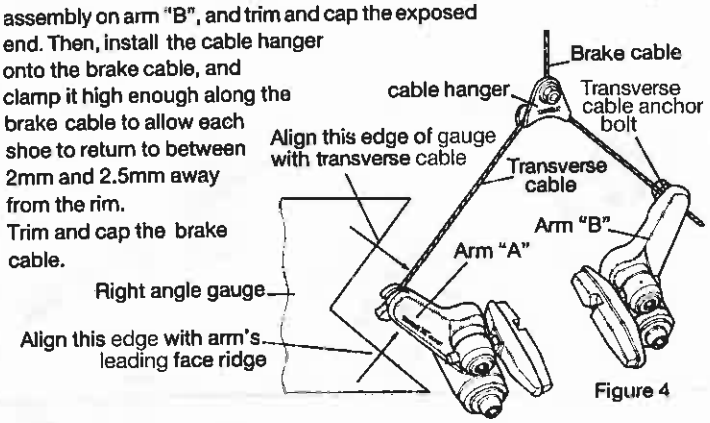


Figure 4

If necessary, use the right-angle gauge in these instructions to determine the best cable/arm angle. Use the ridge along the leading face of the brake arm as the reference for the right angle gauge. Mechanically, this "high rise" canti brake design is most effective when the transverse cable is pulling at right angles (90 to 100 degrees) to each arm. You may shorten or lengthen the transverse cable as you wish, but this will slightly diminish the efficiency of the brake.

5 Squeeze and release the brake lever a few times to be certain that the adjustments are stable.

6 To remove the rear wheel, squeeze the brake shoes against the rim to allow enough slack at the transverse cable to remove its cable end from its socket in arm "A". When the cable end is free, pivot the brake arms away from the rim (Figure 5).

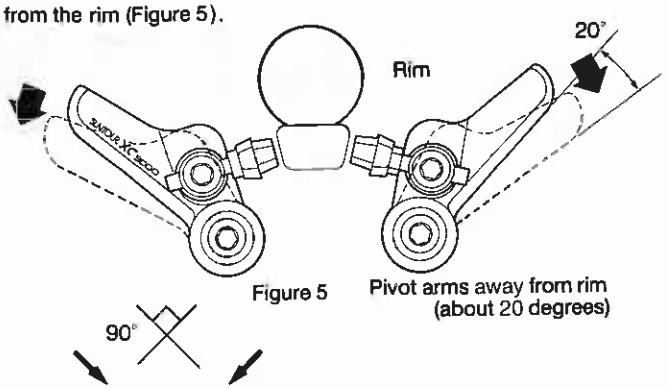


Figure 5

Pivot arms away from rim (about 20 degrees)

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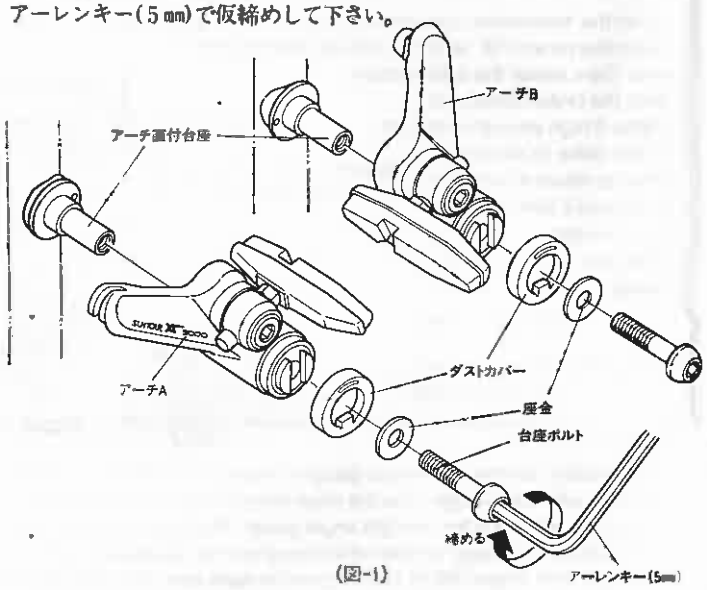
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取り扱い マニュアル

1 台座への取り付け

アーチ直付台座にグリスを塗り(図-1)の順ではめ込んで、台座ボルトをアーレンキー(5㎜)で仮締めして下さい。



(図-1)

2 シューの位置調整

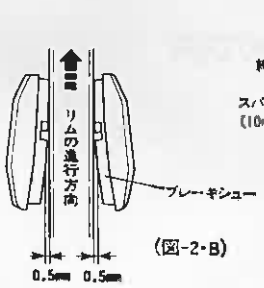
シューのアジャスト範囲は(図-2・A)のように5方向に行なえます。
①及び②についてはシュー固定カバーにより、仮止めができます。



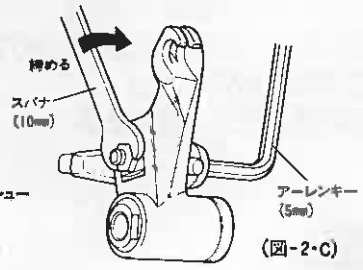
(図-2・A)



以上の調整方法で(図-2・B)の状態になるようセットし、アーレンキー(5㎜)でシュー固定ボルトを固定し、スパナ(10㎜)でナットを締め付けて下さい。(図-2・C)



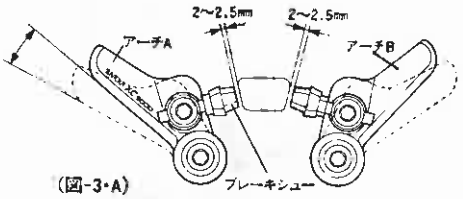
(図-2・B)



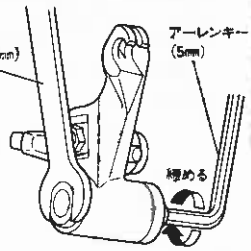
(図-2・C)

3 アーチの位置調整

リムとブレーキシューのスキマが左右それぞれ2～2.5㎜になるように位置決めを行ないますが、アーチ自体に矢印でしめした遊びの範囲があります。(これは、破線部の位置からかるく押した時に動きが硬くなる位置までをさします。) このあそびをなくした位置でリムとブレーキシューのスキマを2～2.5㎜にし、(図-3・B)のようにスパナ(16㎜)でその位置を動かないよう固定し、アーレンキー(5㎜)で台座ボルトを締め付けて下さい。



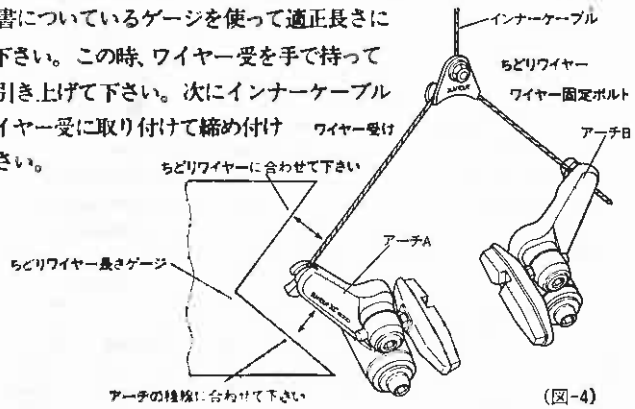
(図-3・A)



(図-3・B)

4 ワイヤーの取り付け

ちどりワイヤーをアーチAの先端部にひっかけワイヤー受の溝を通して、アーチBの溝部に沿わせワイヤー固定ボルトをアーレンキー(5㎜)で締め付けます。この時、ちどりワイヤーの長さは(図-4)のように説明書についているゲージを使って適正長さにして下さい。この時、ワイヤー受を手で持って軽く引き上げて下さい。次にインナーケーブルをワイヤー受に取り付けて締め付けて下さい。

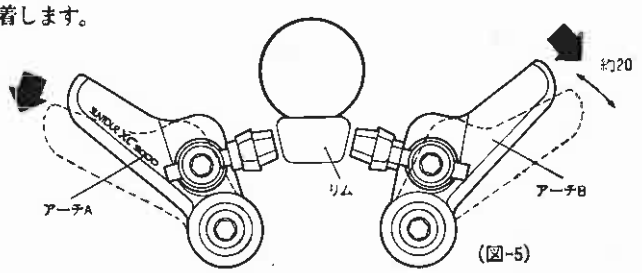


(図-4)

ブレーキの取り付けが終わりましたら、ブレーキレバーを引いてブレーキが正常に作動するかを確認して下さい。

5

車輪を脱着する際には、左右のブレーキシューを手ではさみリムに押しつけてちどりワイヤーのニップル部をアーチAからはずします。
(図-5)の様に左右 各アーチを手で矢印方向へ(約20°)動かし、車輪を脱着します。



(図-5)

マエダ工業株式会社 〒587/大阪府南河内群美原町丹南97 Tel (0723)61-1300(代)
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