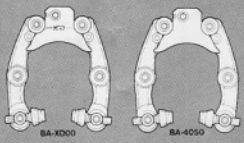
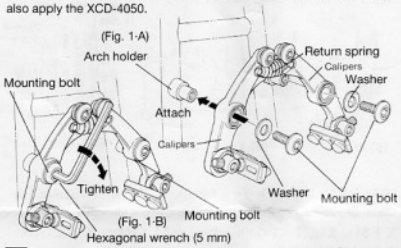
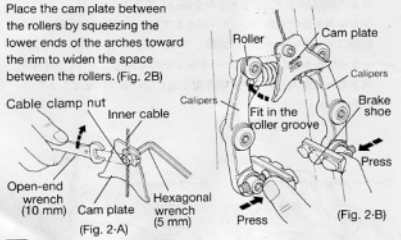
SUNTOUR
BRAKE CALIPERS
Model:BA-XD00, Code No.62299051
Model:BA-4050, Code No.62279051
INSTRUCTION MANUAL



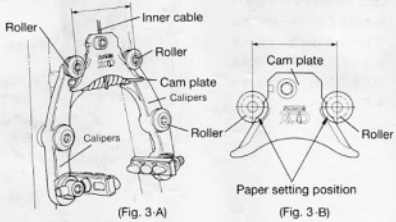
1 Lubricate Brake Bosses with grease.
Attach the brake calipers to the lubricated bosses. (Do not attempt to remove the spring.) (Fig. 1-A)
Attach the face the face washer and the mounting bolt and tighten to a torque of 80 to 90 Kgf-cm. (Fig. 1-B)
*Although the illustrations show the XCD-6000, the same procedures also apply the XCD-4050.



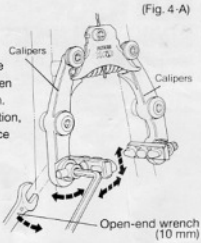
2 Attach the cam plate to the inner cable and temporarily fix it in that position by gently tightening the cable clamp bolt. (Fig. 2A)
Place the cam plate between the rollers by squeezing the lower ends of the arches toward the rim to widen the space between the rollers. (Fig. 2B)



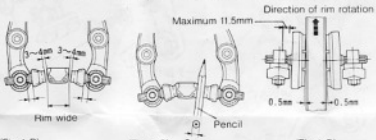
3 Position the rollers at the uppermost part of the cam "ramp" (Fig. 3A, 3B) and remove any cable slack. Do not pull the cam out of this position while removing the cable slack.



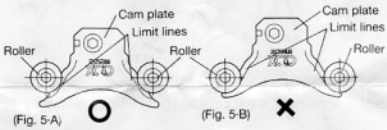
4 Correct shoe position is vital to the performance of the brake. When the brake is in the closed position, the shoes should meet the rim squarely and be centered betwen the top and bottom edge of the rim. When the brake is in the open position, there should be 3-4 mm of clearance between each shoe and the rim. (See Fig. 4-B) You can check this clearance using a standard 7 mm wide pencil. With the cam plate in place, slip a pencil between the rim and one brake shoe. If the gap is correct, the opposite shoe will just contact the rim. (See Fig. 4-C) To adjust the gap, slide the brake shoes closer to or further from the brake arms. Make sure that the shoes are both located the same distance from their respective brake arms. Do not be concerned with brake centering at this time. It is accomplished in a later step. If the shoes cannot be set to the proper distance without locating the arms more than 11.5 mm from the brake arms, move the rollers to the other set of mounting holes in the brake arms and repeat steps 3 and 4. (See Fig. 4-A)



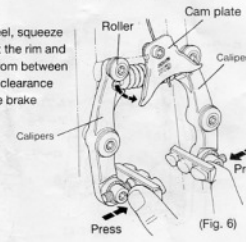
Set the shoe toe-in so that there is 0.5 mm between the rim and the rear edge of the brake shoe when the front edge is touching the rim. This allows the front edge of the shoe to contact the rim first for gradual, smooth and noiseless braking. After adjusting, tighten the brake shoe fixing bolt with an open end wrench and an allen wrench. Recommended torque is between 80-90 kgf-cm. (See Fig. 4-A & 4-D)



5 Finally, pull the brake lever several times to check the stroke as well as the movement of the cam plate against the roller. Also, make sure that all the nuts and bolts are properly tightened.
(Note) Make sure that the clearances between the rim and each of the brake shoes is approximately equal when the lever is released after braking.
Adjust the cable so that the rollers do not pass over the limit line on the cam plate when the brakes are applied (Fig. 5-A).
To make sure that the rollers are always within the designated limit lines, check for possible increase of cable stroke due to cable stretch or brake shoe wear during operation.



6 To remove the wheel, squeeze the brake shoes against the rim and remove the cam plate from between the rollers to widen the clearance between the rim and the brake shoes.



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