

adamas
Brake & Brake Lever

SHIMANO
Dero
dynamics



■ FEATURES
Brake Lever

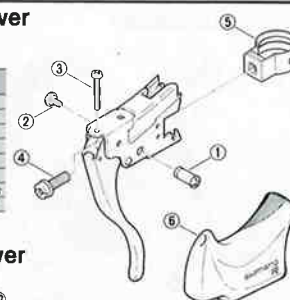
- By assembling the cables along the handle bars, frontal area is decreased thereby reducing air resistance for an aerodynamic design.
- The design is simple and complete because the cables are never seen in front of the handle bar.
- The lever grip stroke is adjustable to suit different hand sizes.
- A well fitting bracket cover provides a secure grip for a more comfortable ride. The hand and bracket are now combined to work as a total unit.

Caliper Brake

- The brake arm and brake shoe holder are made as one unit with unnecessary protrusions eliminated for decreased air resistance and a smarter design.
- The return spring is built into the brake arm and is sealed thus enhancing the brake.
- The combined design of the brake shoes and brake arms means efficiency is no longer dependant on the assembly position of the brake shoe.

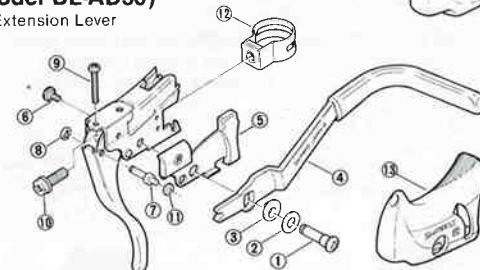
ADAMAS AX Brake Lever
(Model BL-AD10)

| ITEM NO. | PART NO. | DESCRIPTION |
|----------|--------------|--------------------------|
| 1 | 885 0200 | Stopper Axle |
| 2 | 888 1900 | Stopper Bolt |
| 3 | 888 1400 | Adjusting Bolt |
| 4 | 888 1100 | Clamp Bolt (M6x20) |
| 5 | 3-849 9100-1 | Clamp Band (ø22.2mm) |
| 6 | 3-849 9110-1 | Clamp Band (ø23.8mm) |
| | 885 0100 | Right Hand Bracket Cover |
| | 885 0101 | Left Hand Bracket Cover |



ADAMAS AX Brake Lever
(Model BL-AD50)
w/Extension Lever

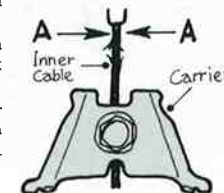
| ITEM NO. | PART NO. | DESCRIPTION |
|----------|------------|-----------------------|
| 1 | 888 1600 | Extension Lever Axle |
| 2 | 888 1800 | Washer |
| 3 | 888 1500 | Flanged Bush (Black) |
| | 888 1501 | Flanged Bush (Gray) |
| | 888 1502 | Flanged Bush (White) |
| 4 | 3-888 9001 | Right Extension Lever |
| | 3-888 9002 | Left Extension Lever |
| 5 | 888 1700 | Right Hand Holder |
| | 888 1701 | Left Hand Holder |
| 6 | 888 1900 | Stopper Bolt |
| 7 | 888 2000 | Extension Pin |



| ITEM NO. | PART NO. | DESCRIPTION |
|----------|--------------|--|
| 8 | 531 1401 | Stop Ring (M5) |
| 9 | 888 1400 | Adjusting Bolt (M4x25) |
| 10 | 888 1100 | Clamp Bolt (M6x20) |
| 11 | 888 2800 | Rubber Ring |
| 12 | 3-849 9100-1 | Clamp Band (ø22.2mm) |
| | 3-849 9110-1 | Clamp Band (ø23.8mm) |
| | 888 1300 | Right Hand Bracket Cover for Extension Lever |
| | 888 1301 | Left Hand Bracket Cover for Extension Lever |

Note: Brake Lever

- ① When changing the cable, please use a genuine Shimano aerodynamic cable for outer casings and inner cables.
- ② When the inner cable is frayed, as seen in the diagram, cut the cable at "A" position and then grip the lever and pull the inner cable out from the lever side before changing.
- ③ When cutting the cable, use a sharp pair of pliers and cut cleanly.
- ④ When the bracket cover becomes dirty, wipe clean with soapy water. Do not use alcohol or thinner.



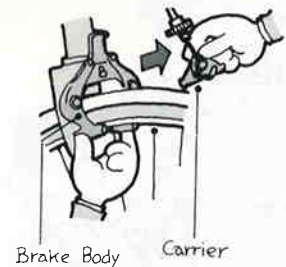
ADAMAS AX Caliper Brake (Model BR-AD10)

| ITEM NO. | PART NO. | DESCRIPTION | ITEM NO. | PART NO. | DESCRIPTION |
|----------|----------|------------------------------|----------|------------|----------------------------|
| 1 | 863 2702 | Lock Nut for Center Bolt | 6 | 865 1600 | Brake Shoe |
| 2 | 811 6030 | Radius Bushing for Front | 7 | 863 2200 | Shoe Fixing Screw |
| 3 | 811 6040 | Radius Bushing for Rear | 8 | 3-865 9001 | Carrier Assembly |
| 4 | 866 2000 | Springs | 9 | 865 0900 | Cable Fixing Bolt |
| | 866 2300 | Springs | 10 | 866 1400 | Cable Fixing Washer |
| 5 | 865 1300 | Center Bolt for Front 65mm | 11 | 866 1100 | Carrier |
| | 865 1301 | Center Bolt for Front 61.5mm | 12 | 531 6800 | Washer (M5) |
| | 865 1400 | Center Bolt for Rear 45.5mm | 13 | 865 1000 | Cable Fixing Nut |
| | | | 14 | 531 0600 | Washer (M6) |
| | | | 15 | 3-866 9001 | Cable Adjusting Bolt & Nut |

Note: Caliper Brake

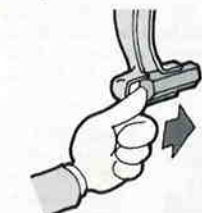
- ① Use a 1-1/4" - 1-3/8" width rim.
- ② There are two types of brake shoe. The black brake shoe is for light alloy rim. And the grey shoe is for steel or stainless steel rims.
- ③ After changing the cable or wheel, confirm that the carrier is correctly positioned.
- ④ Because the brake shoe and brake arm are built as one unit, assembly to a curved top frame is not possible. Ensure that the shoe is correctly aligned with the rim plate.
- ⑤ When using a mud guard, check that the width is under 46mm.
- ⑥ Ensure the grease or oil does not get on the brake shoes or rim. In the event that this happens, wipe off completely with alcohol.

How to change the brake shoes

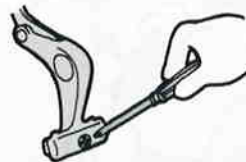


Brake Body Carrier

- Remove the brake shoe fixing screw.



- Loosen the cable adjusting bolt fully and then remove the carrier from the brake arm. Next remove the brake body from the frame.



- Replace the brake shoe with a new one. Remember to lock in place with brake shoe fixing screw.

SPECIFICATIONS:

ADAMAS AX Caliper Brake
Model BR-AD10

- Type: Parapul
- Weight: 317g (Front & Rear)
- Material: Light Alloy, Steel
- Size: 65mm-80mm

ADAMAS AX Brake Lever
Model BL-AD10
BL-AD50

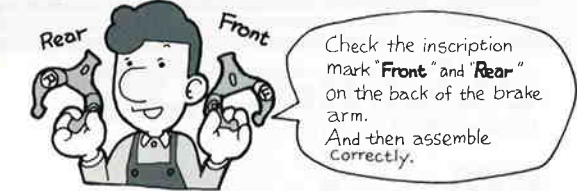
- w/Extension Lever
- Weight: 280g (pair) 440g (pair/with Extension Lever)
- Clamp diameter: ø22.2mm, ø23.8mm
- Assembly position: Drop Handle Bar
- Material: Light Alloy, Steel



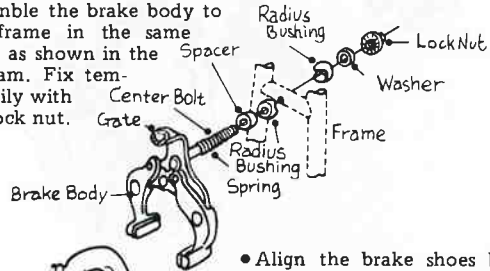
Specifications are subject to change without notice.

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Caliper Brake Assembly



- Assemble the brake body to the frame in the same order as shown in the diagram. Fix temporarily with the lock nut.



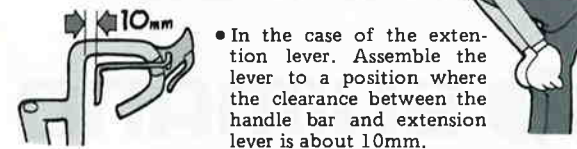
- Align the brake shoes by moving the gate section up and down until the brake shoes are positioned to contact the rim properly. Also make sure the rim is centered between the shoes. Next, tighten the lock nut.

Tightening torque:
80—100kgfcm.

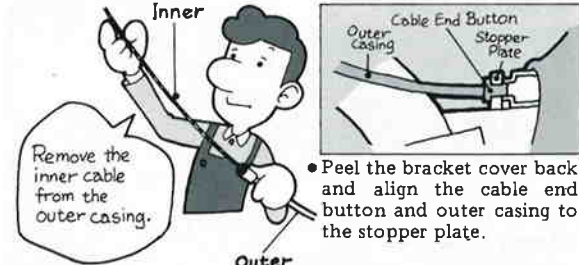
Brake Lever Assembly



- Assemble the brake lever so that the bottom of the handle bar grip is level with the tip of the brake lever. Clamp band fixing torque; 40kgfcm.



Cable Assembly

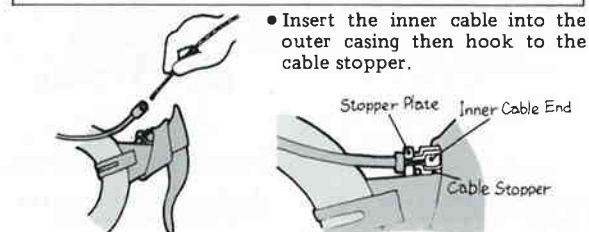


- Peel the bracket cover back and align the cable end button and outer casing to the stopper plate.
- Deciding the outer casing length.** At this time align the outer casing with the back of the handle bar. Then check that the outer casing does not make contact with the head parts and that the handle bar can operate both left and right with more than 90 degree movement. And then cut the outer casing.

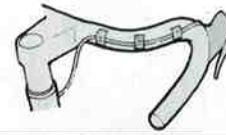


Note:

- Cutting pliers for the outer casing should be very sharp and strong. After cutting the outer casing, take care not to pull out the resin which is necessary inside the casing.
- Check the cut area of the outer casing and if cut is not clean (i.e. wire is sticking up, thus impeding smooth cable action) please cut again.

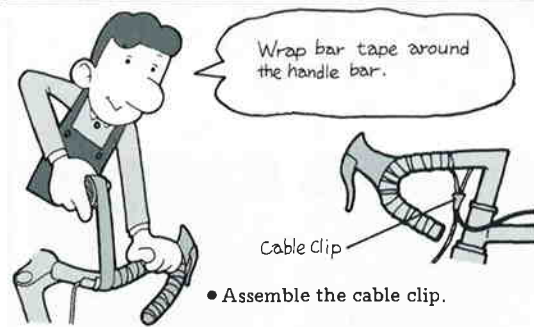
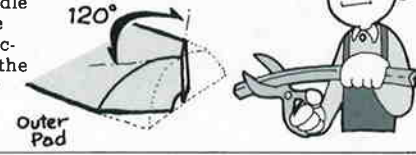


- Align the outer casing along the back of the handle bar, then fix temporarily with celotape.



Note:

- When using an outer pad (Optional part), cut the end of the outer pad as shown in the diagram, and align it with the outer casing. Then fix with celotape to the handle bar. Cut the outer pad according to the handle bar length.

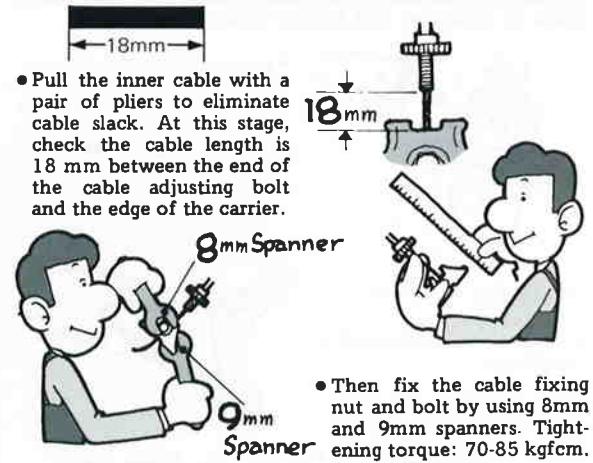


- Assemble the cable clip.
- Adjust the grip stroke to the most suitable setting by using a screw driver.

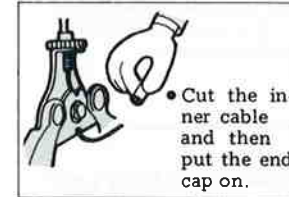


How to assemble the cable to the caliper brake

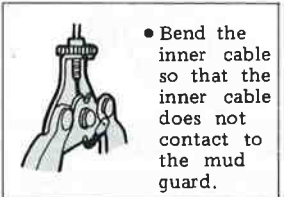
- Pass the inner cable through the cable adjusting bolt and cable fixing bolt on the carrier.



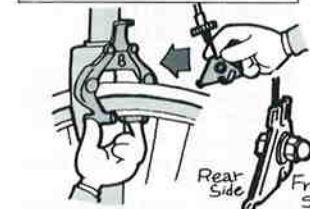
- Then fix the cable fixing nut and bolt by using 8mm and 9mm spanners. Tightening torque: 70-85 kgfcm.



- Cut the inner cable and then put the end cap on.



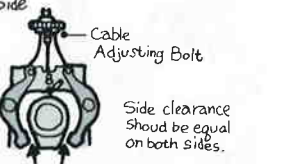
- Bend the inner cable so that the inner cable does not contact to the mud guard.



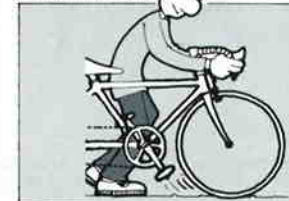
- Set the cable adjusting bolt to the gate section and assemble the carrier to the brake arm.

Check the carrier position.

- Adjust the brake shoe clearance, by turning the cable adjusting bolt, so that the total clearance between brake shoes and rim is 3mm.



Confirmation:



Confirm that the carrier is correctly positioned. Grip the brake lever strongly and push the bicycle forward about 2m to confirm effectiveness. If there is no problem, then the bicycle can be used safely.