

BAR END BRAKE LEVERS

1 - TECHNICAL SPECIFICATIONS

FRONT BRAKE CABLES		BACK BRAKE CABLES		FRONT BRAKE CABLE HOUSING		BACK BRAKE CABLE HOUSING	
Lenght:	800 mm	Lenght:	1600 mm	Lenght:	580 mm	Lenght:	1250 mm
Diameter:	1.6 mm	Diameter:	1.6 mm	Diameter:	4.9 mm	Diameter:	4.9 mm

2 - COMPATIBILITY

COMPATIBILITY WITH HANDLEBAR

Aluminium time trial handlebar.

Carbon fiber time trial handlebar with aluminium inserts where the brakes are installed.

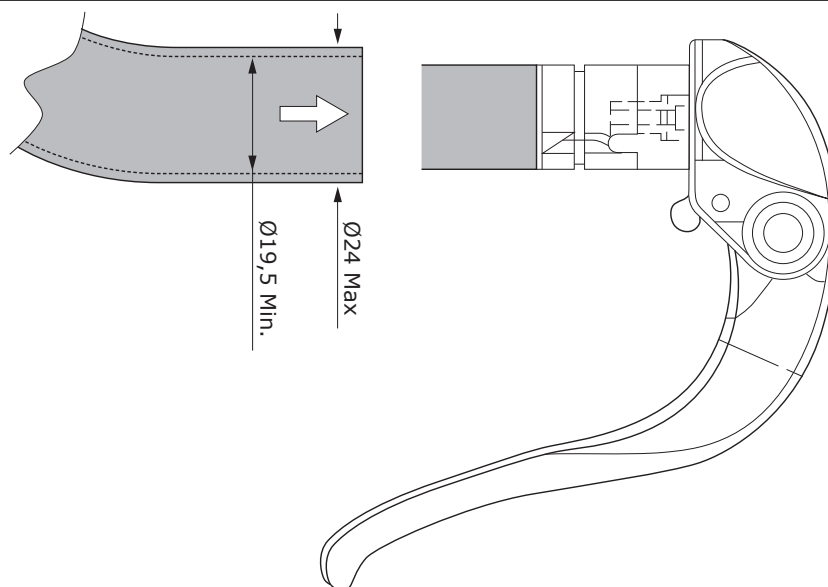
Handlebar internal diameter: 19,5 mm (Min.)



WARNING! COMPATIBILITY

The BAR END brake levers are compatible **ONLY** with caliper brakes.

3 - INTERFACE WITH HANDLEBAR



4 - ASSEMBLY

4.1 - BRAKE LEVER ASSEMBLY

- Get the housing to pass through the handlebar and adjust its length letting it stick out at the front for about 10 mm (Fig. 1).

⚠ WARNING!

Before cutting the sheath, check the selected length is suitable to the size of your frame. An incorrect length of cable and sheathing might jeopardize your ability to steer or control the bike and might cause accidents, injuries and even death.

NOTE

The sheath must be cut at a right angle without altering its section (Fig. 2). After cutting the sheath, make sure it is still round in order to avoid friction between the cable and the sheath itself.

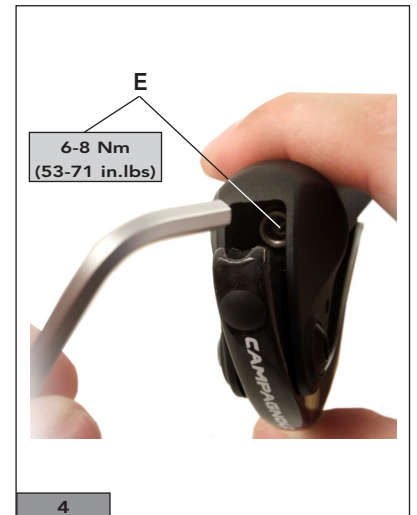
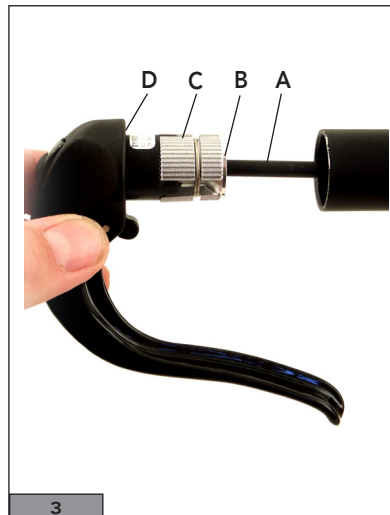
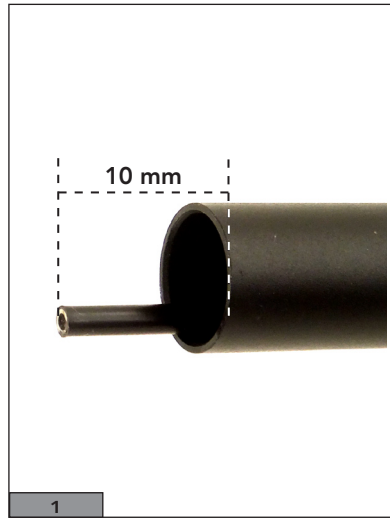
To cut the casings we suggest you to use the specific tool Park Tool CN-10.

- Insert the end (A – Fig. 3) of the sheath into the back housing (B - Fig. 3) of the control.

NOTE

The **BAR-END** brake levers do not need any housing end cap.

- Insert the expanding part (C – Fig. 3) of the lever into the handlebar bringing it level with the face (D – Fig. 3).
- Fix the lever with a 4 mm Allen key, tightening the screw (E – Fig. 4) fitted inside the lever itself, at **6-8 Nm (53 - 71 in. lbs)**.



If a carbon fibre handlebar is used, it might be necessary to reduce the tightening torque in order not to damage the handlebar. Contact the manufacturer of the bike and of the handlebar to get all the necessary information on the correct tightening torques.

4.2 - ASSEMBLING AND FITTING THE CABLE

- Remove rubber cap (F – Fig. 5) from the front of the brake lever.

- Insert cable (G - Fig. 6) making it go through hole (H – Fig. 6) of the brake lever and the hole in fixing screw (E - Fig. 4).

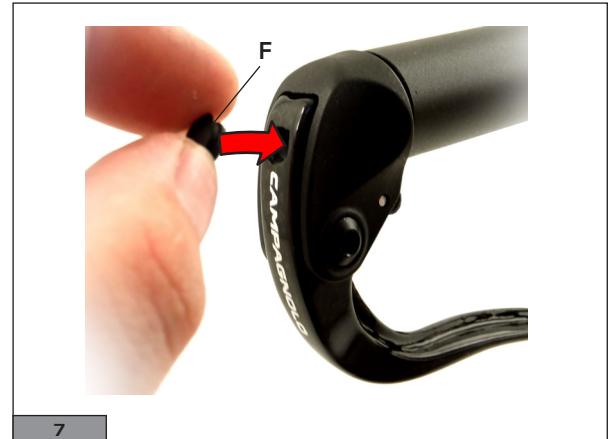
Make sure the cable slides freely in the sheath.



- Fix the cable with the brake fastening screw (refer to the brake user manual).
- Replace cap (F – Fig. 7) into the brake lever hole.

⚠ WARNING!

Once the cable is installed, check it doesn't foul steering or any other bike function. Any fouling might jeopardize your ability to steer or control the bike and might cause accidents, injuries and even death.



5 - MAINTENANCE

- The intervals stated are just an indication and might vary significantly according to the conditions and intensity with which the bike is used (i.e. significant factors are: competitions, rain, salted roads during the winter, cyclist's weight, etc.). To identify the best intervals for your characteristics, contact your mechanic.
- The cables and housings must be replaced every 2 years or after 20,000 km maximum.
- If the bike is used in competitions, the cables and housings must be replaced every year or after 15,000 km maximum.
- Dirt damages the bike and its components seriously. Clean, rinse and dry your bike thoroughly after using it.
- Never wash your bike with a pressure washer. Pressurized water, even the water coming out of a garden hose, may penetrate gaskets and enter your Campagnolo® components, damaging them irreparably. Wash your bike and Campagnolo® components with water and a neutral detergent. Dry with a soft cloth: never use abrasive or metal brushes.