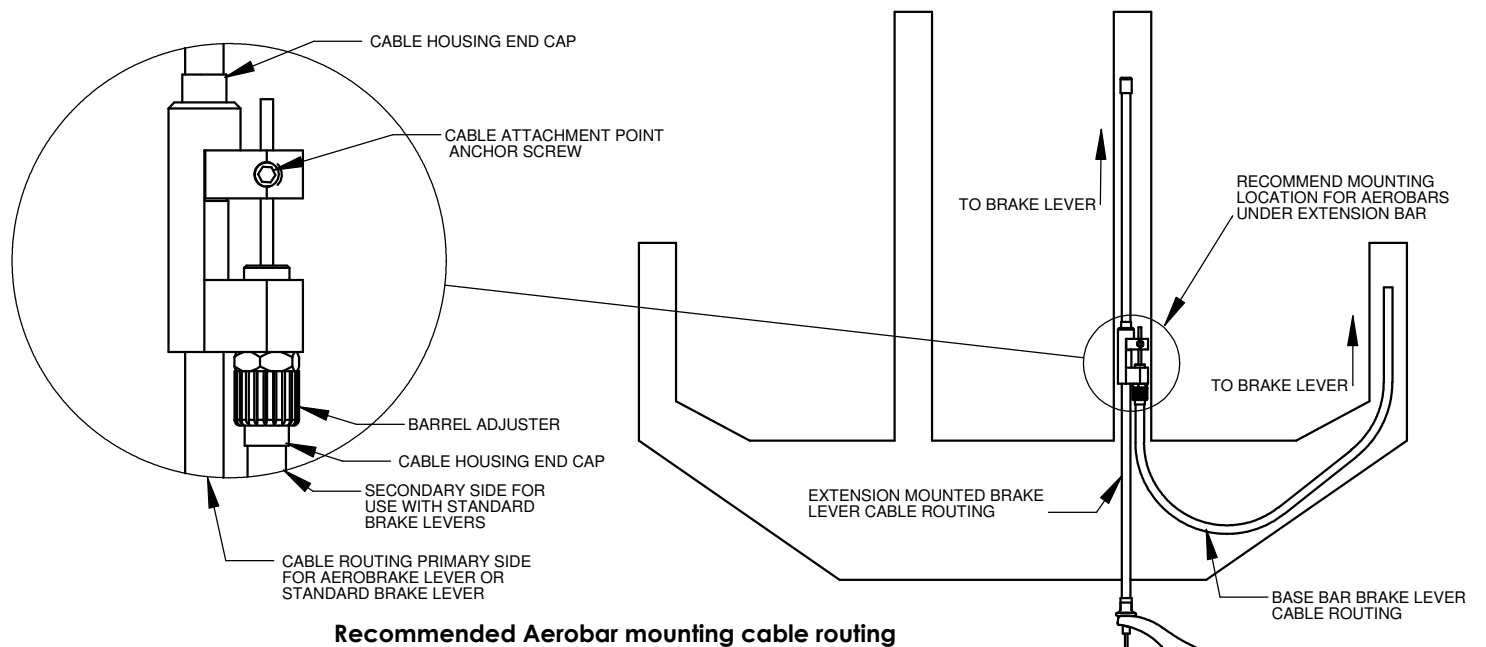


Jtek Engineering Inc

5965 138 St N.
Hugo, MN 55038
www.jtekengineering.com
Phone: 651-340-9770

DoubleControl

Dual input brake control unit
Model-S for use with road bike
style brake calipers



Recommended Aerobar mounting cable routing

The **DoubleControl** is a dual input brake controller designed to allow the use of multiple brake levers in combination with a single bicycle brake caliper. The **DoubleControl** operates by allowing the use of a primary and secondary brake input. The primary cable routes through the **DoubleControl** housing and functions like a normal brake lever to operate a single brake caliper. The secondary brake lever routes to the **DoubleControl** and attaches to the cable attachment point. When the secondary brake lever is actuated, it causes the **DoubleControl** to expand the cable housing and thereby operate the brake caliper.

General notes regarding front and rear brake usage: Which brakes should be used in a dual brake lever system tends to be a highly personal choice. Generally speaking, if you are using the **DoubleControl** system with aerobars, the primary advantage is most realized when using it with the rear brake. Front brake usage tends to be useful for straight line braking, but generally should be avoided when cornering. How, where, and the way, in which brakes are used is a highly personal choice dependent on the rider's skill, road conditions, and desired usage. Consideration should be given to desired use prior to installation.

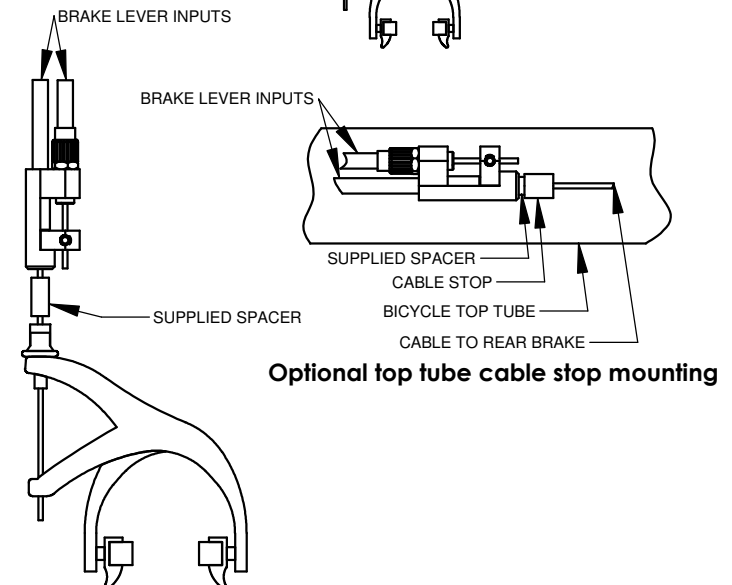
The model "S" is designed to only be installed with road caliper style brakes which use shorter cable pull operation and is **NOT** designed for mountain bike style brakes calipers, which requires a longer cable pull to operate.

Installation: It is highly recommended that installation be performed by qualified personnel knowledgeable with bicycle service and familiar with bicycle brake operation and adjustments. Installation will most often require the use of addition cable housing, new brake cables and cable housing end caps. Make sure supplies are available prior to installation.

Location: The **DoubleControl** can be mounted in a number of locations, however for aerobar use it is highly recommended that the unit be installed under the extensions. Care needs to be taken so that a location is chosen, which avoids sharp angles in the brake line. A special spacer is supplied, so that if desired, the **DoubleControl** can be mounted directly on top of the brake calipers or cable stops. Refer to the diagrams for installation cable routing details. Note the locations of where cable housing end caps are used. It is recommended these be installed on the cable housings in noted locations. **Caution:** Tighten the cable anchor screw with care. This screw needs to be firmly tightened and brake levers firmly pulled to test for cable slippage. No cable slippage should be possible when the screw is properly tightened.

Maintenance: Lubrication is normally not necessary, but may be helpful if stickiness is noticed. A small dab of grease on the inner shaft is all that is needed. Wiping away excess lubrication is recommended to avoid the collection of debris.

Warning: Always test your brakes for proper operation before riding. It is important that you understand the operation of this device and your braking system. Make sure you take the time and are careful to learn any changes in handling characteristics new braking positions may have on your bicycle. Improper use or adjustment, may lead to loss of control and severe injury.



Optional top tube cable stop mounting

Optional brake top caliper mounting method

(Note: not recommended for bikes with short head tubes due to sharp cable routing bend angles that will result)