

# VVT Zone Controller VVT Bypass Controller

## Mounting Instructions

**NOTE** This document contains mounting information only. See the controller's *Installation and Start-Up Guide* for more information.

The VVT Zone Controller provides zone level temperature and air quality control for Variable Volume and Temperature (VVT) applications. The VVT Bypass Controller regulates the supply duct static pressure for VVT applications.

Mount the VVT Zone Controller on the air terminal's damper actuator shaft. Mount the VVT Bypass Controller on the bypass duct damper actuator shaft. For service access, allow at least 12 in. of clearance between the front of the controller and adjacent surfaces.

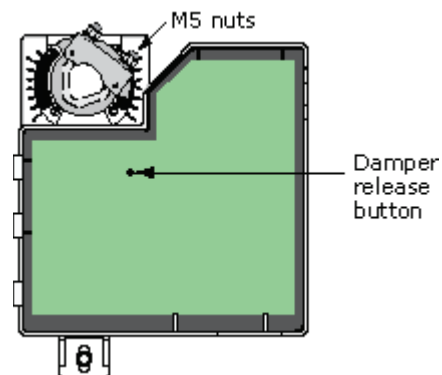
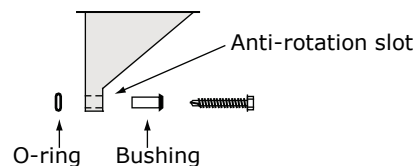
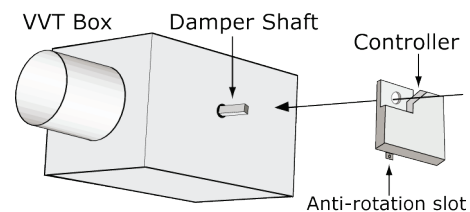
### Tools required:

- 1/4 in. nut driver
- 5/16 in. or 8 mm wrench or socket
- No. 1 Phillips head screwdriver

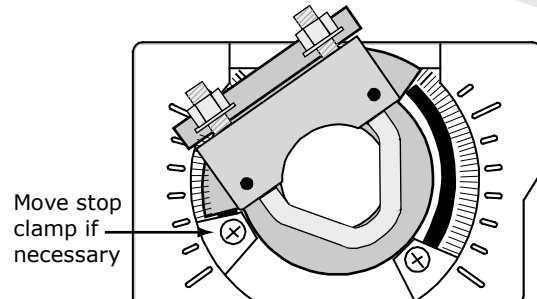
### To mount the controller

1. Turn the damper shaft to fully close the damper.
2. Remove the controller's cover.
3. Mount the controller to the VVT terminal by sliding the clamp assembly onto the damper shaft.
4. Secure the controller by installing the screw provided through the anti-rotation slot's bushing and o-ring.
 

**NOTE** Center the bushing in the slot. Failure to do so may cause the actuator to stick or bind.
5. Hold down the controller's damper release button and rotate the actuator clamp in the same direction that closed the damper. Rotate the clamp until it stops, then rotate it back one notch.
6. Release the button.
7. Using a 5/16 in. or 8 mm wrench or socket, tighten the actuator clamp to the damper shaft by tightening the two M5 nuts.



8. Hold down the damper release button and rotate the damper from fully closed to fully open. If the damper traveled less than 90 degrees, do the following to prevent the damper opening past fully open:
  - a. Loosen the appropriate stop clamp screw.
  - b. Move the stop clamp until it contacts the edge of the actuator cam.
  - c. Tighten the screw.



9. Hold down the actuator damper release button, rotate the damper to verify that it fully opens and closes, then release the button.

10. **WT Bypass Controller only** – Connect the filter tube to the controller's **High** connector, and using 1/4" poly tubing, connect the other end to a static pressure pickup located in the supply air duct downstream of the bypass damper.

11. Connect the controller's **Low** connector to open space for plenum return or to a room space if using ducted return.

12. Replace the controller's cover.

