

RZ3-1M Troubleshooting Guide

1. The allen head screw on your new RZ3 motor is 180 degrees opposite of the Allen head screw on Honeywell M847D type motor, and some other motors; ***since the motor is being tightened to a round shaft this does not matter.***
2. If replacing a Honeywell M847D type motor: if the minimum set point adjustment levers are being used this feature can be added to the RZ3 motor with the “Adjustable Stop Kit” at <https://www.retrozone.com/rz3-stop-kit.html>. The minimum shipping charge will be waived for this part.
3. Do not feel comfortable with mounting your new motor: even if it is in the incorrect orientation on the blade, no damage will occur, it will simply not operate correctly.
4. You may encounter a “normally closed” damper (typically a damper connected directly to a thermostat or a switch, that is closed with no power applied, and powered to open-directly opposite of a zone control damper). In this case the mounting instructions are reversed. Rotate the blade clockwise till stopped, then tighten the de-energized motor to the shaft; the blade when energized will then travel counter clockwise till open.
5. Note that other methods of determining blade position exist if you are having issues. It can often be easy to drill a small hole to observe, remove a piece of flex duct, or in some manner actually be able to see blade position. If you have not removed your old motor, you can try marking the shaft with a sharpie, but the issue here is that your old motor may not fail in the fully open position due to gear train issues.
6. To summarize operation of the 24vac RZ3 motor,
 - A. when looking at the back of the motor mounted on the damper, when powered the blade will move counter clockwise. When not powered, and being reversed by spring power, the blade will move

clockwise. This is exactly the same operation as Honeywell M847D and similar motors, this motor is not turning “the wrong direction”.

But, these same directions of travel can be used for either a normally open or a normally closed damper, depending on how the damper was configured when installed. For instance, many dampers can be changed, in the field, from normally open to normally closed, by simply mounting the motor on the opposite side of a round damper.

RZ3 Replacement Damper Motor for HONEYWELL ARD ZD M847D & DuroDyne 35105 2-wire Motors



[Click on Video to View](#)

Positioning Your Dampers Blade for Correct Motor Installation.



[Click on Video to View](#)

Stop Block for RZ3 Replacement Damper Motor



[Click on Video to View](#)