

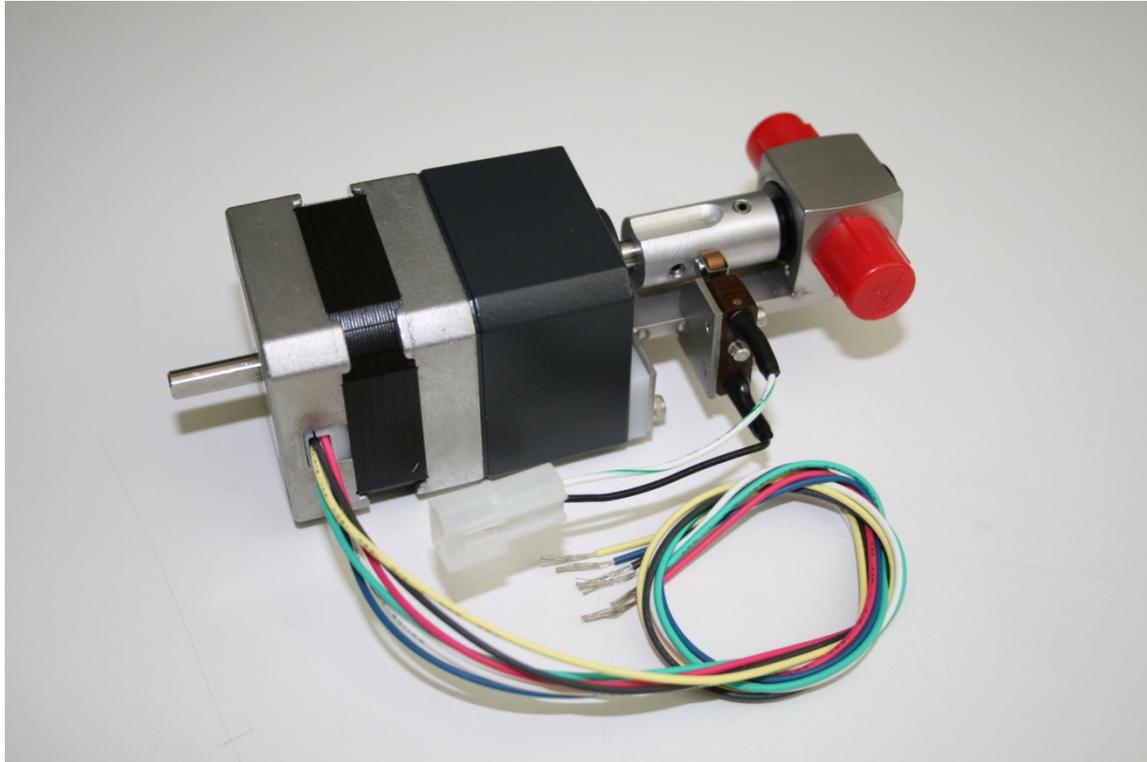
Humidity Generation and Calibration Equipment

THUNDER SCIENTIFIC®

CORPORATION THE HUMIDITY SOURCE

Model 2500

Expansion Valve Limit Switch Adjustment



Tech Support Document TSD-0216
Revision Date: August 9, 2017
Revision - A

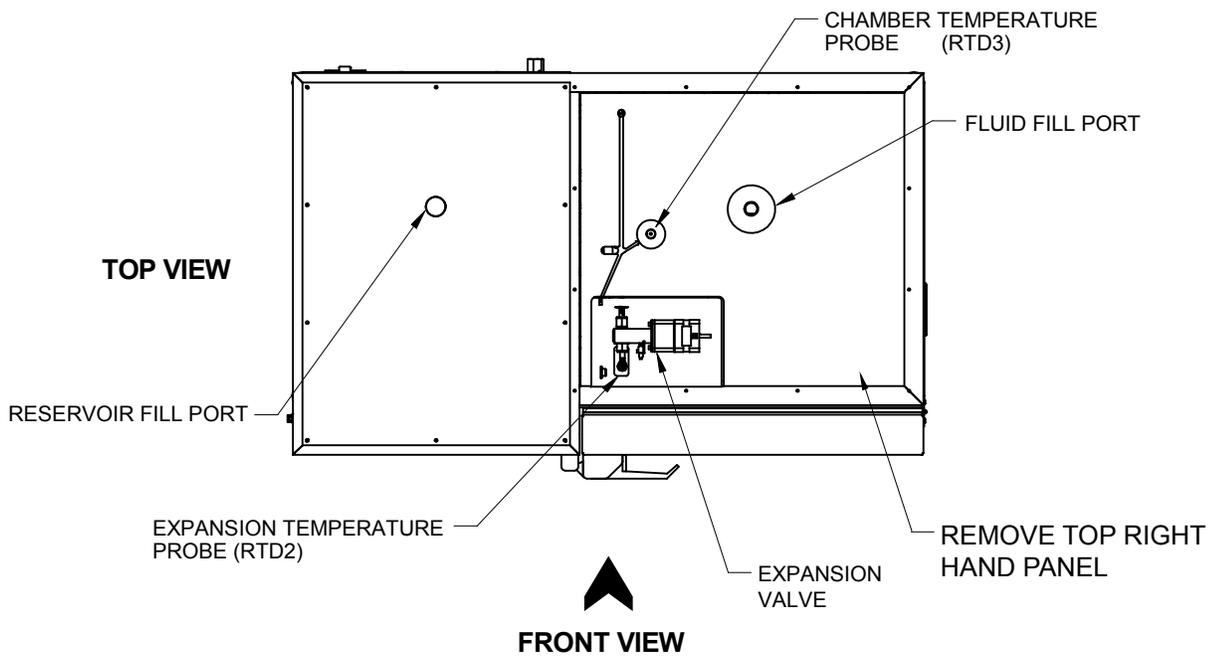
623 WYOMING BLVD. SE



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Expansion Valve Limit Switch Adjustment

1. Disconnect power from the 2500 system.



2. Using the Torx drive provided remove the Torx screws, and the right top panel.



3. Remove the top expansion valve foam insulation.



4. Remove the side expansion valve foam insulation.



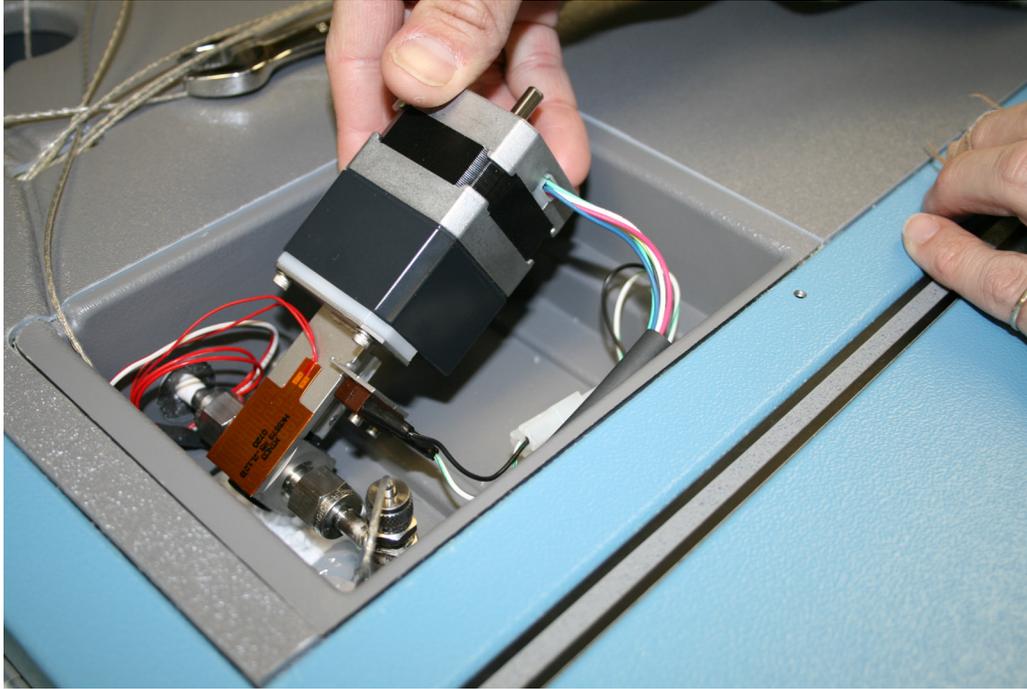
5. Take a 9/16 wrench and loosen the two nuts on both sides of the valve body.



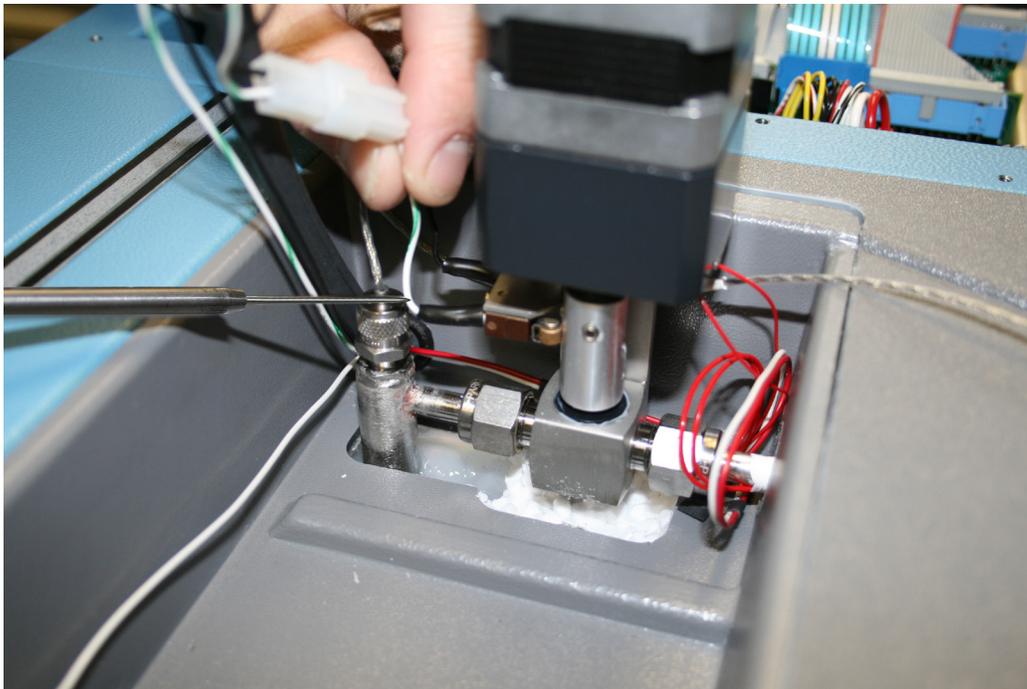
6. When loosening the front nut, be careful not to hit the switch mounting bracket.



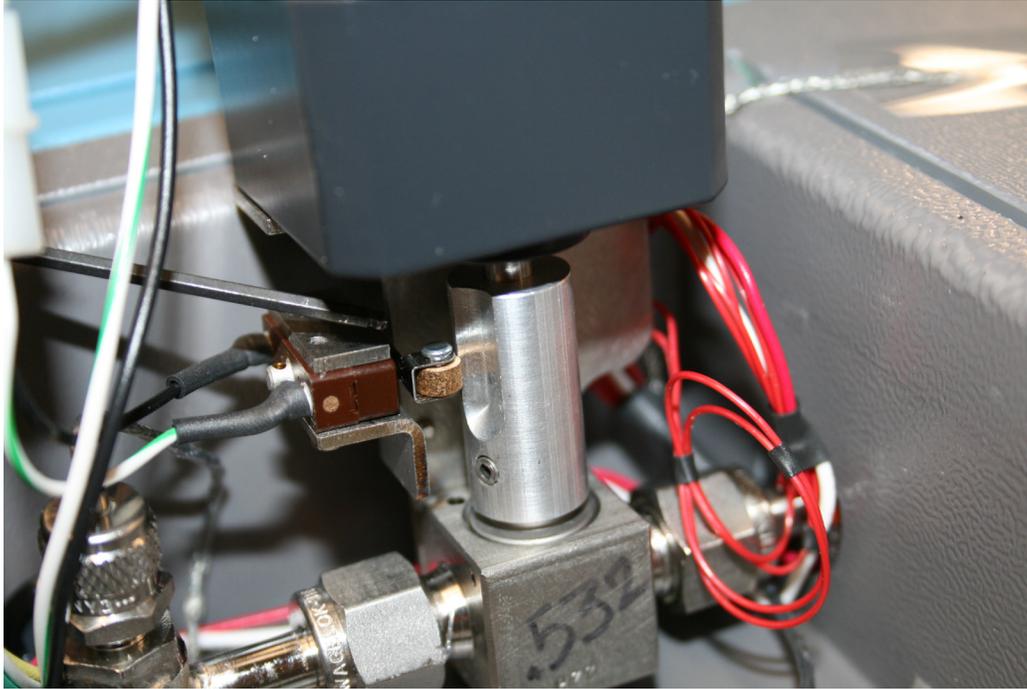
7. Rotate the valve motor 90° up.



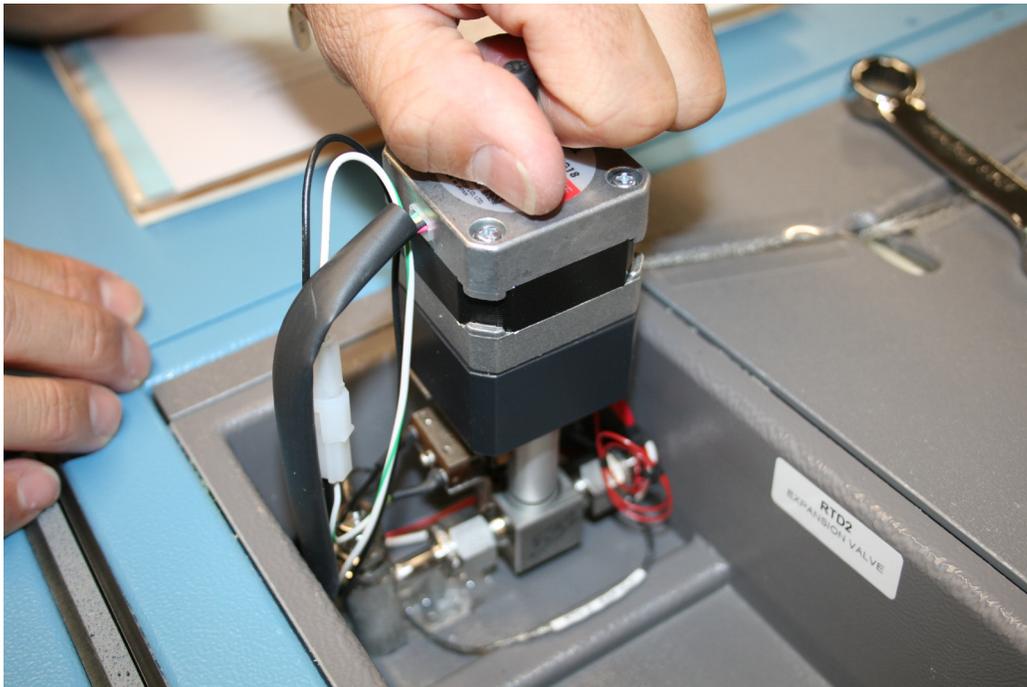
8. Make sure wire leads are bent clear of the fitting so not to catch it and get broken off the limit switch.



9. You will see the roller switch on the back/under side of the valve.

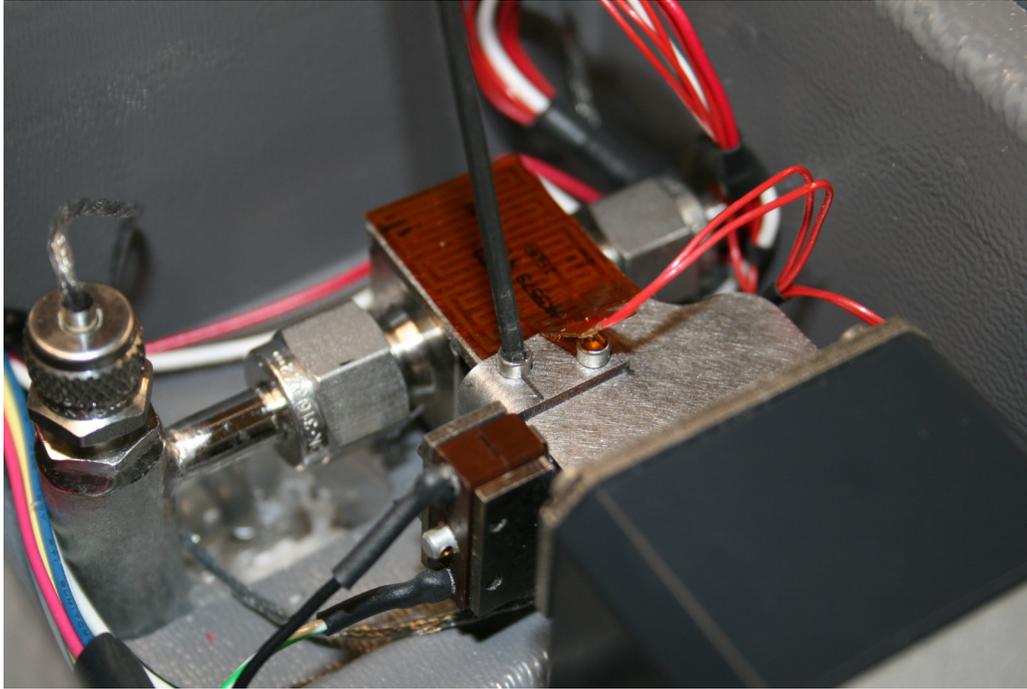


10. Twist the motor shaft back and forth and listen for the switch to make a click. You need to hear two clicks, one at either end of the valley of the coupler. One will be at the far left peak and one at the other far right peak.

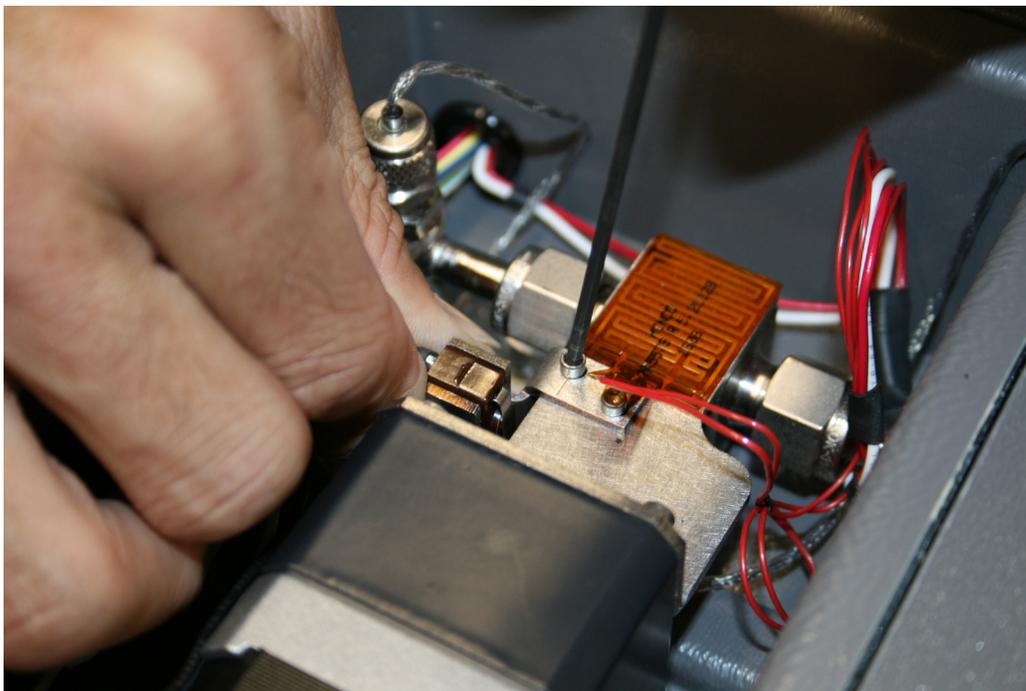


11. If the switch doesn't make the on/off clicks, adjustment is needed.

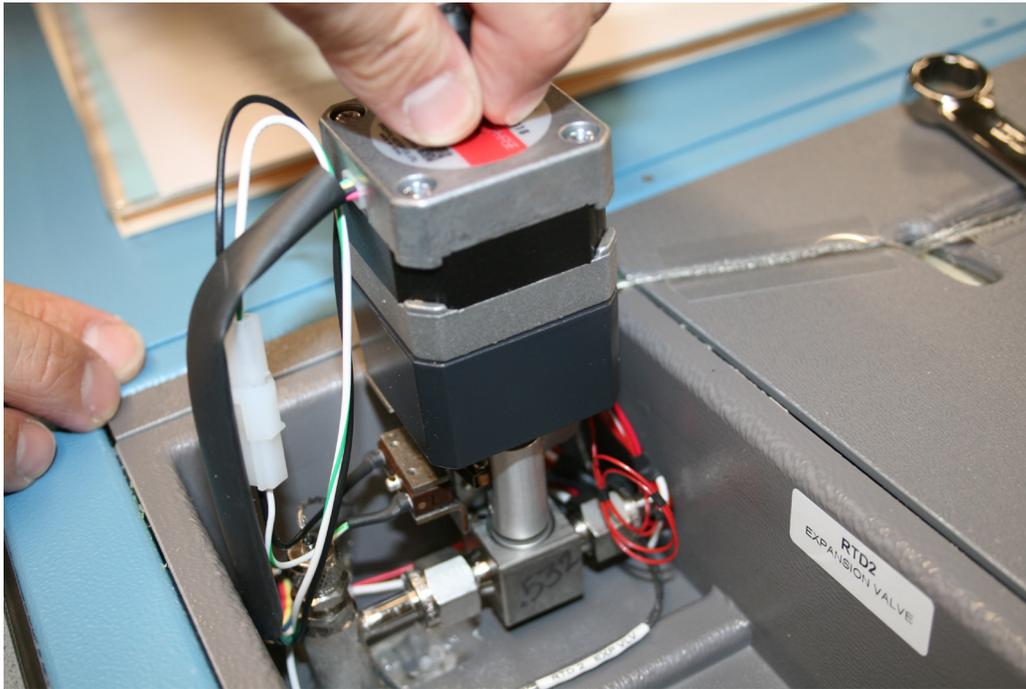
12. To make adjustments, use a 5/64th Allen wrench to loosen the switch mounting bracket.



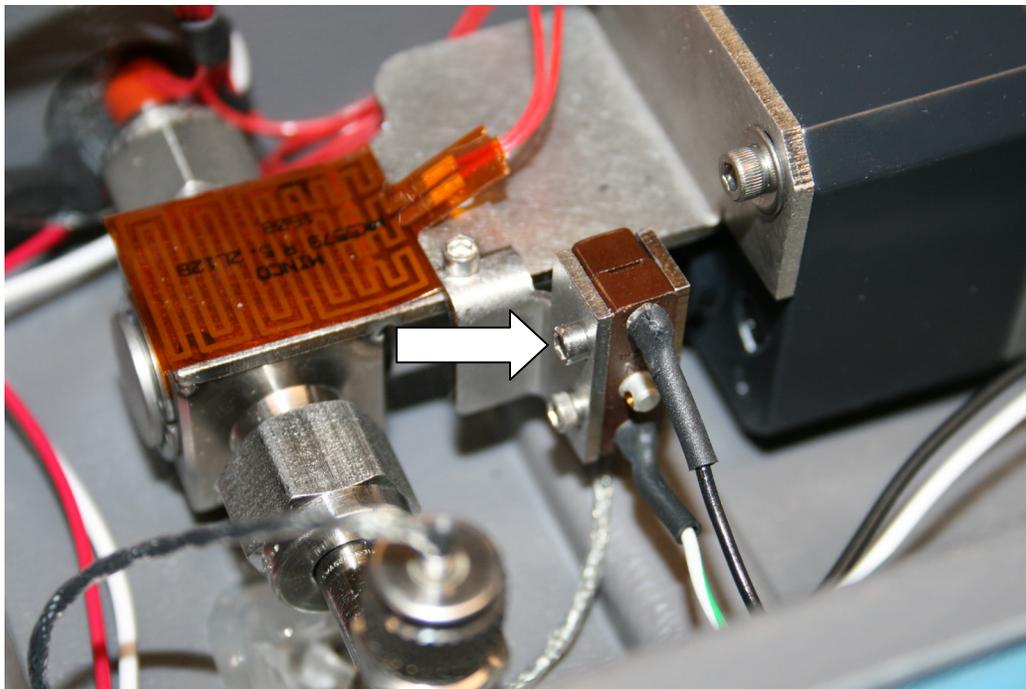
13. After loosening each of the Allen screws, push or pull the switch making minor adjustments, then tighten the screws.



14. Rotate the valve back up and twist the motor shaft back and forth to listen for the clicks.



15. You may need to adjust the vertical alignment screws if the roller is too far away or too close.



16. Repeat steps above until the limit switch is properly adjusted.

17. Turn the system back on to see if the 2500 operates properly.

For Tech Support

Please Call 1-800-872-7728, Fax 1-505-266-6203, or E-mail support@thunderscientific.com should you have any questions.