

# How to set the

## PHASON VTC-1D VARIABLE SPEED CONTROLLER



### *Phason VTC-1D*

How to set the Phason VTC-1D variable speed controller.



### *Tools needed*

A medium sized Phillips screwdriver and small flathead screwdriver are needed to set the controller.

## Step #1:

REMOVE FACE PLATE



### *Remove face plate*

First, loosen the 4 corner screws and remove the face plate.

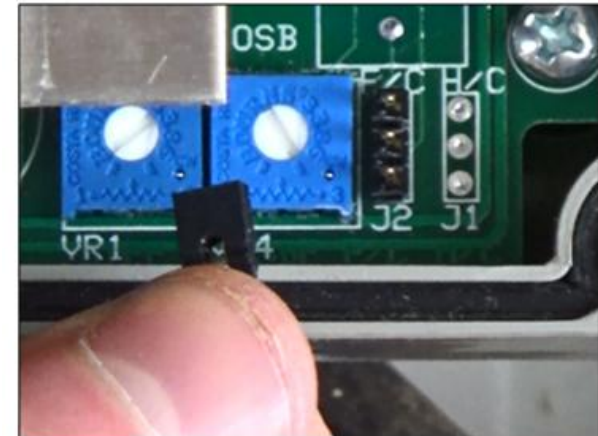
## Step #2:

ADJUST OSB SCREW



***Adjust OSB screw***

Identify the OSB screw and use the small flathead screwdriver to gently turn it clockwise until it stops turning.



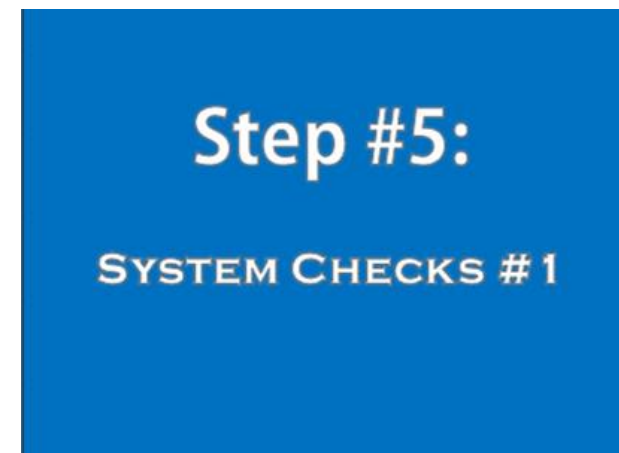
***Set temperature to Fahrenheit***

The default temperature reading is in degrees Celsius. To change the reading to Fahrenheit, identify the small black plastic cap located near the OSB screw. Grasp the tip of the plastic cap and pull up, removing the plastic piece and exposing three vertical pins. Replace the plastic cap on top of the two outermost pins and push down, seating it on the pins. The digital display will now read Fahrenheit.



***Replace face plate***

Replace the face plate and secure the four corner screws.





### Series of System Checks

Now, a series of checks will be performed to ensure the controller is working correctly.



### Set "set temp" to high

First, press and HOLD the toggle switch to the right, then turn the Temperature knob clockwise to the HIGH setting. The digital display will now read 98 if set to Fahrenheit or 37 if set to Celsius. Release the toggle switch to center position.



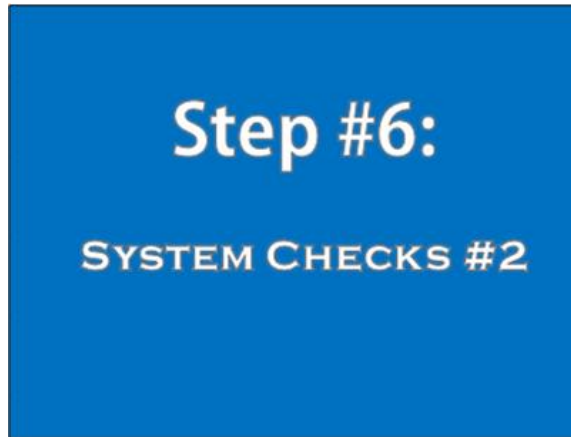
### Set Idle Speed to "0"

Next, turn the Idle Speed knob counterclockwise to "0".



### System Check 1

The fan should turn off.



### Set Idle Speed to "Full"

Now, turn the Idle Speed knob clockwise to "Full".



### System Check 2

The fan should now be running full speed.



### System Check complete

This indicates the controller and fan system is working correctly. Next, let's set the controller.



### System Set – Temperature

Press the toggle switch to the right and HOLD, then turn the temperature knob until the digital display reads the desired set temperature. Most calf barns have the temperature set between 40-50 Fahrenheit, or between 4 to 10 Celsius. Release the toggle switch to center position. The digital display should now show the ambient air temperature.



### How Set Temperature works

When the temperature in the barn is above the set temperature, the fan will run at full speed. When the temperature in the barn is below the set temperature, the fan will run at the speed indicated by the Idle Speed knob.





**System Set - Idle Speed**

Turn the idle speed knob to the desired setting. Idle speeds are most commonly set between 2 and 3. Do not set the idle speed below 2, as the fan may not draw enough fresh air over the motor to properly cool it, reducing its lifespan.



**How your system will work**

Now the Phason variable speed controller is set.

**Step #9:**  
**TROUBLESHOOTING ERROR MESSAGES**



**Troubleshooting error messages**

In the event of a power outage, the controller will need to be re-set and error messages cleared.



**Error messages**

Multiple error messages may appear on the digital display.



**General reset of digital display**

The display can be reset by rapidly wiggling the toggle switch to the left and right twice. This will remove the error message and replace the digital display readout with the ambient air temperature.

# Step #10:

## RESETTING AFTER A POWER FAILURE



### **Resetting parameters**

Once the display has been reset, push and hold the toggle switch to the right to confirm the set temperature is correct. Also, visually verify that the idle speed knob is at the correct setting.



### **DONE!**

Setting the Phason variable speed controller is now complete. Congratulations!



### **For more information**

Contact us at Crystal Creek®. Call 888-376-6777