Autowinder Rollup Wall Installation & Setup Instructions

The Autowinder rollup wall kit is a simple and efficient method for controlling rollup walls according to environmental temperature. The system consists of the controller, temperature sensor, and usually two roll-up wall motors (24V dc) with mounting kits. More motors may be operated at one time however the roll up wall motors should not be driven directly off of the Autowinder controller because of the high power requirements of the motors. If more than two motors are required then each motor should be connected to a local Autowinder reversing power supply. The Autowinder reversing power supply converts 230/240Vac power to 24Vdc and has internal relays to change the direction of the motor. The Autowinder reversing power supply will accept either the 24Vdc output of the Autowinder controller or 24Vac outputs of other control systems for switching the motors.

Setting the Limit Switches:
The vent motor is a 24V DC reversing motor with built in limit switches (photo 1). It is easier if the motor is wired in but not connected to the roll up wall tube and manually run until the down limit switch trips out before attaching the motor to the rollup wall drive pipe as this means that only the up limit switch will need setting. The rollup should be positioned to stop about 10mm above the midrail to allow for overrun in the motor preventing damage to the rollup or motor drive. Each tooth of the limit switch cog relates to about 90mm of vent travel.

There are two limit switches on the back face of the motor one red and green. To adjust the up/down turn off position for the motor remove the weather proof bung from the limit switch adjustment hole and turn the limit switch with a screw driver in the appropriate direction. Note the direction of motor travel is determined by the positive/negative output from the controller and the direction of the motor can be changed by swapping the two wires around if required, either at the motor or the controller.

Remember that it is easier to start with the down limit switch in the tripped out position before the motor is attached to the rollup so that only the upper limit requires setting.

With the rollup in the closed position switch the controller to manual operation and the control mode to open then turn the rollup motor on. Run the motor until the rollup is just below the desired maximum rollup vent opening position and turn the motor off. Adjust the open limit switch so that it clicks off, then switch the vent motor to the close position and drive the vent a short distance downwards and then switch the motor back to the open position and check that the rollup vent stops in correct maximum opening position (repeat the adjustment procedure until the desired setting is achieved, remember that each tooth on the adjustment cog gives about 90mm of vent travel.) Note: Be aware when setting the upper limit switch to allow for the rollup wall tube lifting high over time, through bunching or folding of the plastic on the rollup wall tube, or debris caught in the rollup wall material, as this can cause damage to the rollup through over tightening.

(Photo 2), Autowinder motor with roller guide fitted. (Photo 3), Autowinder motor fitted to greenhouse with roller guide running on vertical guide tube.

Photo 1 Limit Switches

Photo 2 Motor & Guide

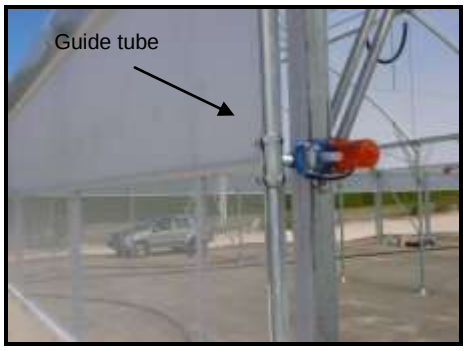

Photo 3 Installed