

HS667-24 LINEAR ACTUATOR

General Installation Notes:

Make sure that power is disconnected from system prior to servicing.

Installation of this equipment and related OEM equipment should be in accordance with these instructions, OEM’s installation instructions and local codes (if applicable). Failure to follow specified instructions may cause damage to equipment and/or personal injury or death.

Take special note of any Warnings or Safety Decals on the equipment and in manuals.

Always wear protective clothing and any applicable Personal Protective Equipment (Safety Glasses and/or Ear Plugs) when working with the equipment.

Discarded materials, equipment and boxes should be recycled in accordance with local and national codes.

Note: Linear Actuator Assembly is to be wired in accordance with all applicable local and national electrical wiring codes. All wiring sizes and fuse capacities are to be sized according to applicable electrical code specifications or other regulations.

Safety Instructions:

Read all safety messages in this manual and on equipment safety decals. Follow recommended precautions and safe operating practices.

Ground all electrical equipment for safety.

Ground all non-current carrying metal parts to guard against electrical shock.

Always keep safety decals in good condition and replace missing or damaged decals.

Overview:

The Hog Slat Linear Actuator Assembly is designed to be used with automatic ventilation control. This unit provides bi-directional control with potentiometer feedback for position sensing.

Electrical Specifications:

Model#	Voltage Rating	Amp Rating (watts)	Frequency
HS667-24	120 VAC	1.4A (167W)	60 Hz
HS667-24-240	240 VAC	.8 A(167W)	50/60 Hz

Position sensor: 10K Ω potentiometer: .650 Ω to 6.4K Ω (Closed to Fully Extended) output range

Max Duty Cycle: 20%, 12 min / hours

Mechanical Specifications:

Max Load: 350 Kgs / 772 lbs

Max Speed: 6.3mm / 1/4" per second @ 60Hz or 5.4mm/ 7/32" per second @ 50 Hz.

Stroke Length: 610mm / 24"

HS667-24 SERIES LINEAR ACTUATOR ASSEMBLY (see Figure 1)

REF#	PART #	DESCRIPTION
1	HS633	ENCLOSURE ASSEMBLY, LINEAR ACTUATOR
2	HS667-24 OR HS667-24-240	LINEAR ACTUATOR, 120 VAC @ 60Hz LINEAR ACTUATOR, 240 VAC @ 50/60 Hz

Installation:

1. Determine mounting configuration.
2. Position and secure mounting bases to linear actuator extension tube with supplied hardware. Place mounting bases at approximate distances as shown along extension tube.
3. Secure Linear Actuator machine to wall or ceiling using (8) 5/16" x 2" lag bolts provided **Figure 1** or optional mounting plate shown in **Figure 2**.
4. Wire actuator to control device. (See **Figure 3 and 4**)

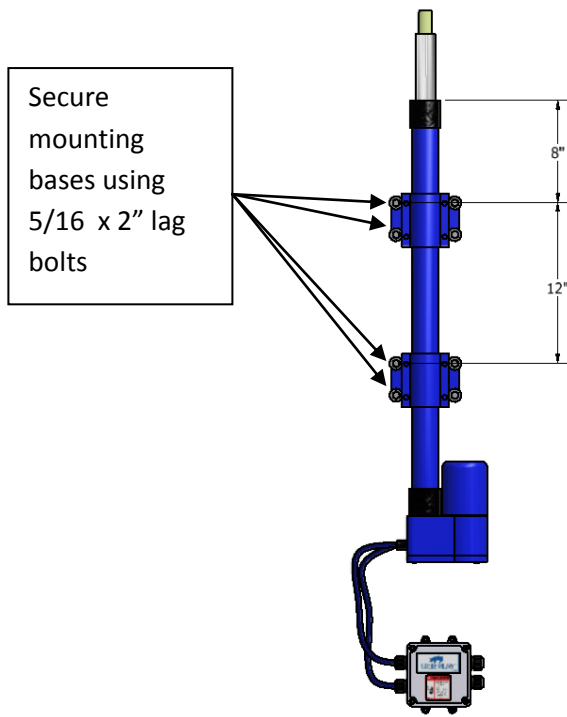


Figure 1

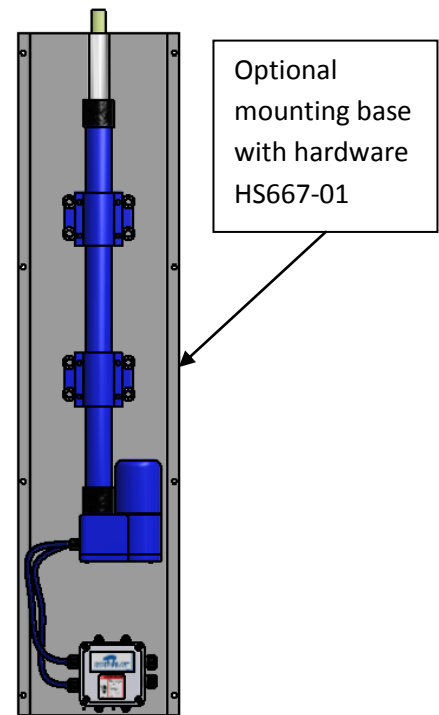
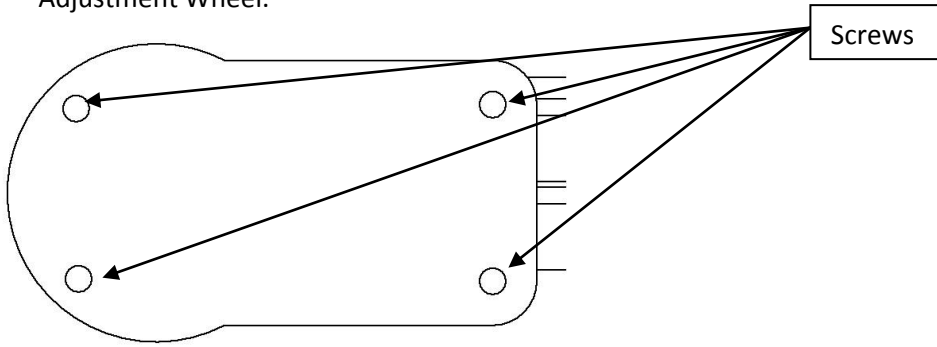
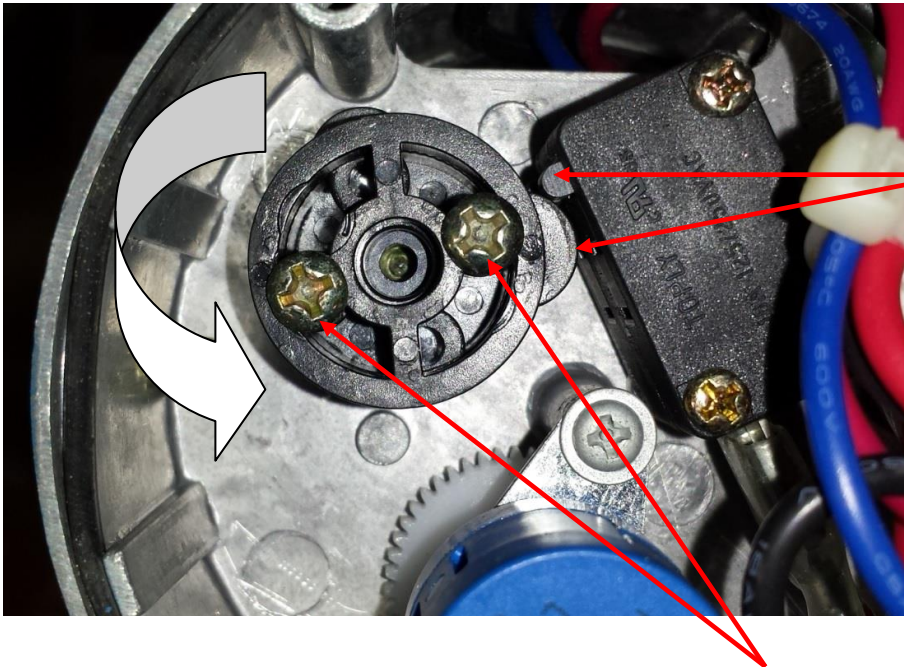


Figure 2

5. To set "OPEN" limit of actuator, run actuator (open or extend) until desired opening is achieved (maximum 24"). Once "OPEN" position has been reached, disconnect power from unit so that local limit switch can be set.
6. Remove (4) screws from the end of the actuator located at the motor end and remove cover to gain access to Adjustment Wheel.



7. Adjust "OPEN" limit by loosening (2) screws as shown below and turn "Adjustment Wheel". Adjustment Wheel rotates CCW when actuator extends shaft. To set "OPEN" limit, set "Adjustment Wheel" bump to the right of the switch button as shown below. Rotate adjustment wheel CCW until it just actuates switch.
8. **Re-tighten "Adjustment Wheel" screws.**
9. Manually run machine in "CLOSE" direction for approx. 6" and then in "OPEN" direction to verify "OPEN" limit is in desired position. Re-adjust wheel as required.
10. "CLOSED" limit is factory set and is not adjustable. Any attempt to adjust could result in permanent damage to linear actuator.

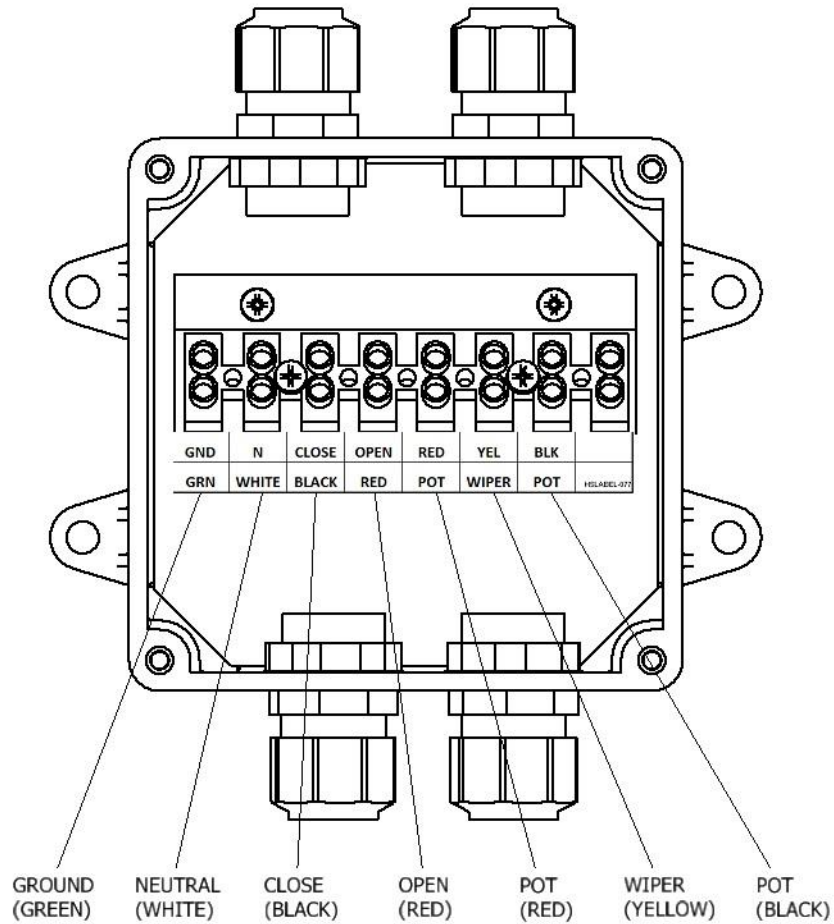


Loosen screws to adjust wheel.

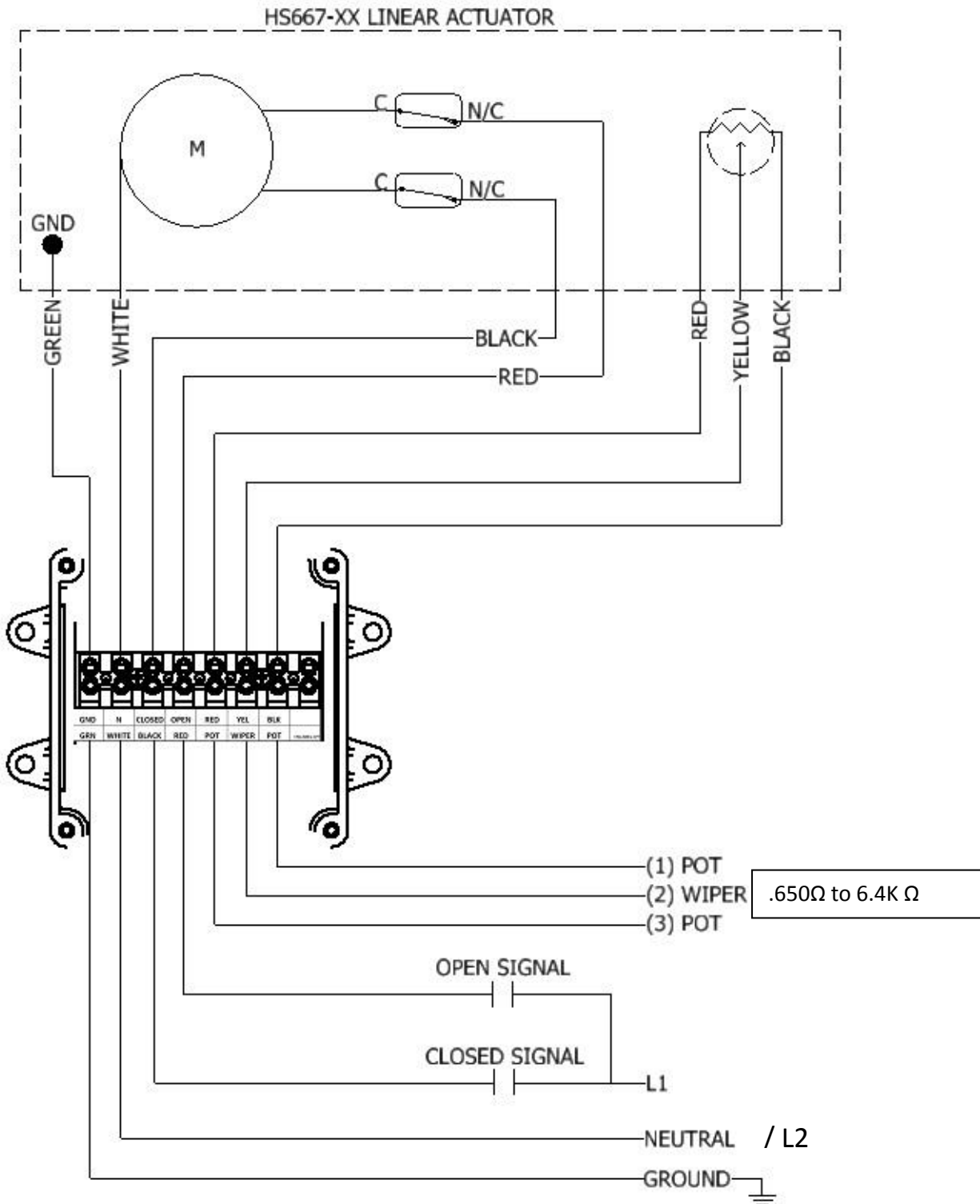
Rotate "Adjustment Wheel" CCW until bump just contacts limit switch pin.

SCREWS

ENCLOSURE WIRING IDENTIFICATION (FIGURE 3)



WIRING SCHEMATIC (FIGURE 4)



NOTES



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This equipment must be installed in accordance with all State and Local Codes and applicable Regulations which should be followed in all cases. Authorities having jurisdiction should be consulted before installations are made.



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Market – Hog & Poultry