



FUZE CONTROL PAN W/ADJUSTABLE MECHANICAL SWITCH

820327, 820328, 820329, 820330,
820331, 820332



Quick Sheet Instructions

The Control Pan Drawing below is shown as END-OF-LINE Installation but may be used in MID-LINE installations.

The Control Pan with Mechanical Switch is pre-assembled and **MUST** be mounted **VERTICALLY** and with the Mechanical Switch located on the proper side of the broiler tube, shown in Figures 1 & 2.

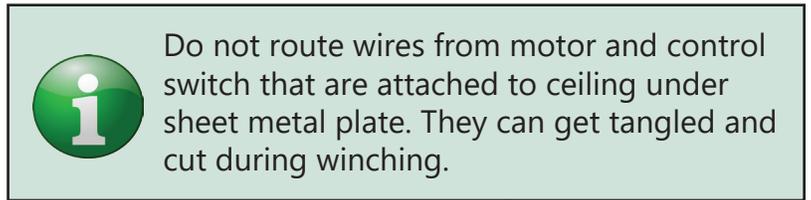
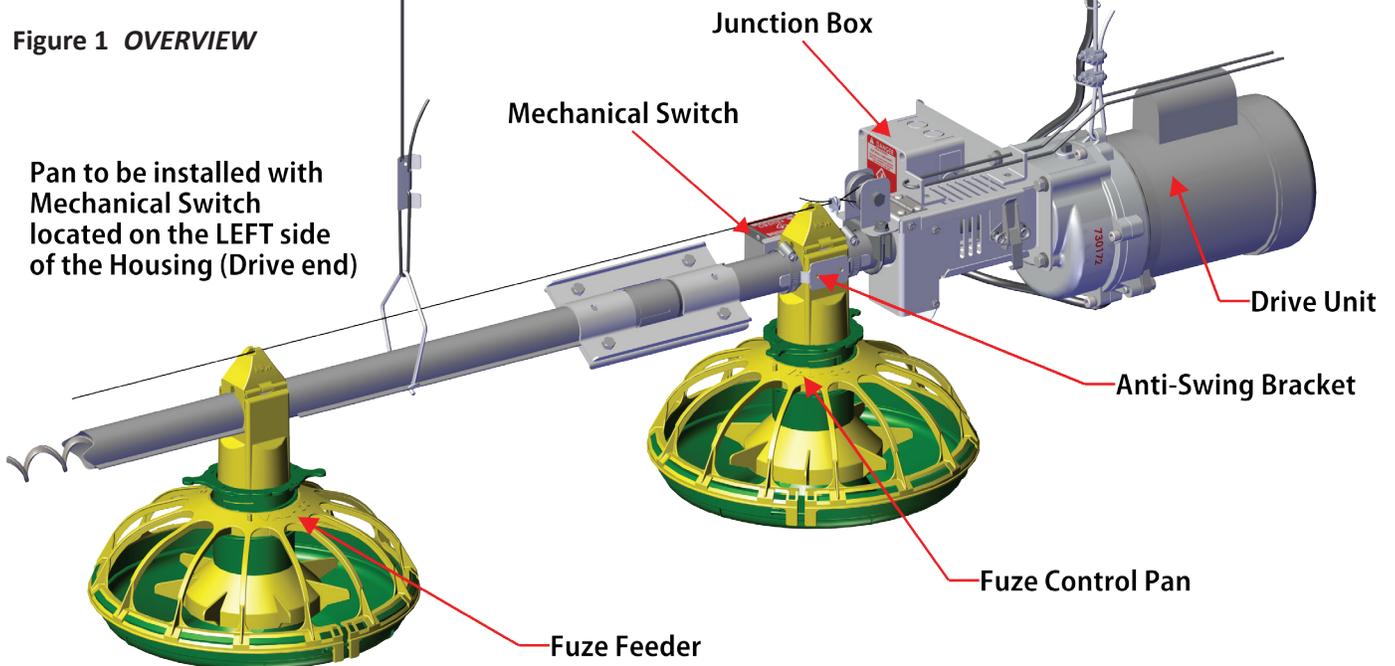
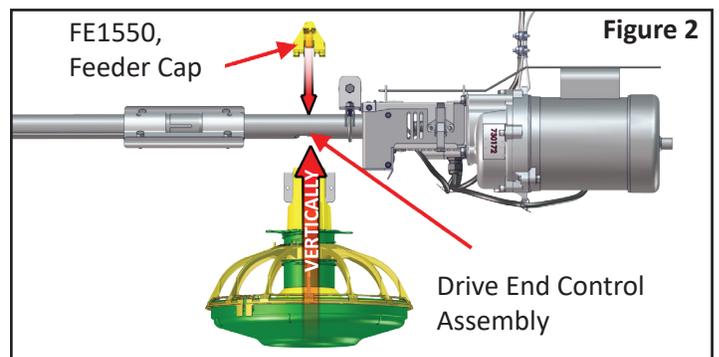


Figure 1 OVERVIEW



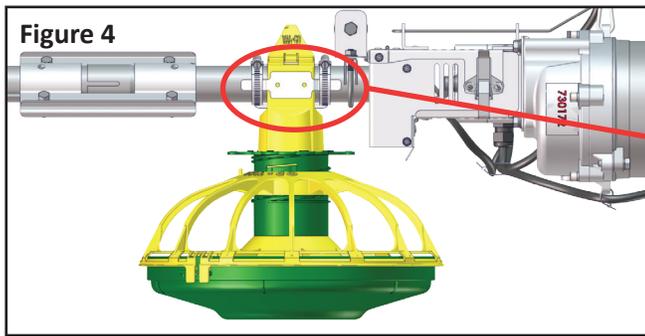
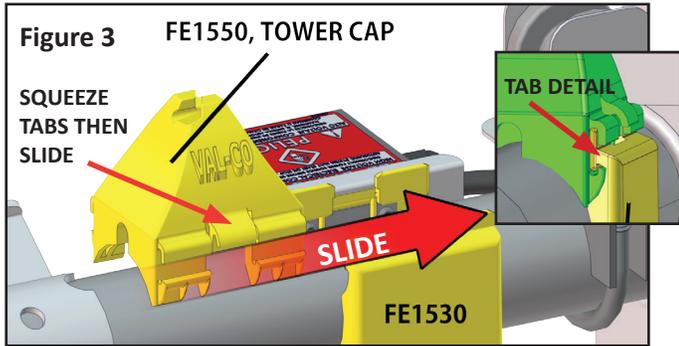
Installation Instructions

1. Remove the FE1550 Feeder Tower Cap from assembly by pressing the tabs and sliding it off. (If pre-assembled to the Control Pan.)
2. Lift the Control Pan onto the bottom of the Port Tube centered under the Feed Drop Hole, as shown in Figure 2.



Installation Instructions-continued

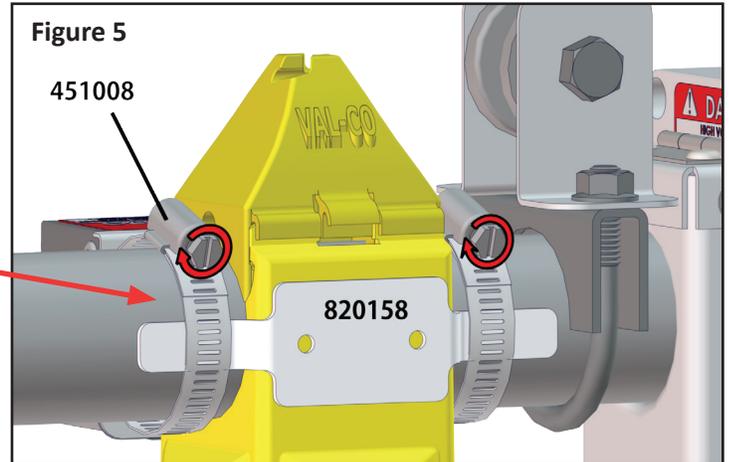
3. Squeeze Tabs then Slide the FE1550 Feeder Tower Cap onto the Feeder Tower tabs, as shown in Figure 3.



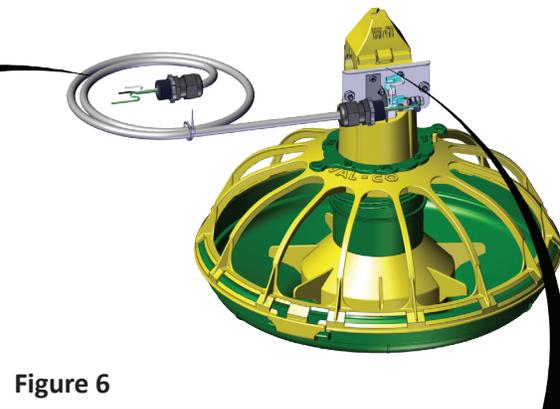
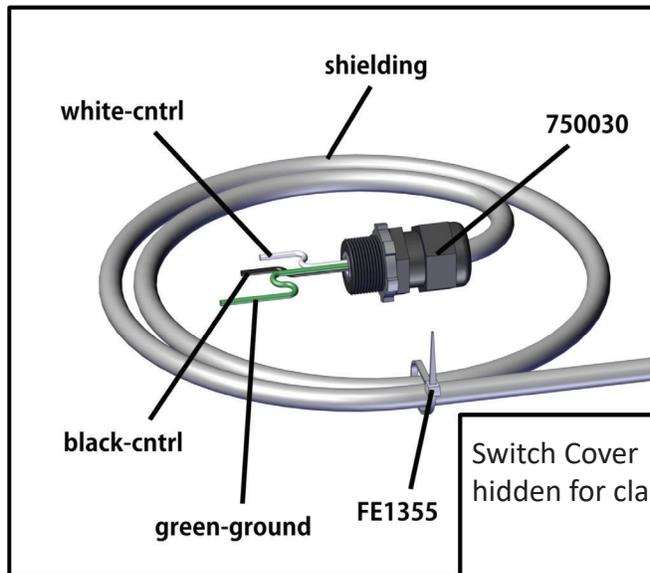
4. With the feeder tower hanging vertically, fasten the 820158 Anti-Swing Bracket onto the Port Tube using (2) 451008 Tube Clamps, as shown in Figure 4 and 5.
5. Route the wire from the switch and the motor into the junction box. Wire tie the cords away from the birds to prevent bird injury and wire damage. Connect wires as shown in the wiring diagrams on page 3.



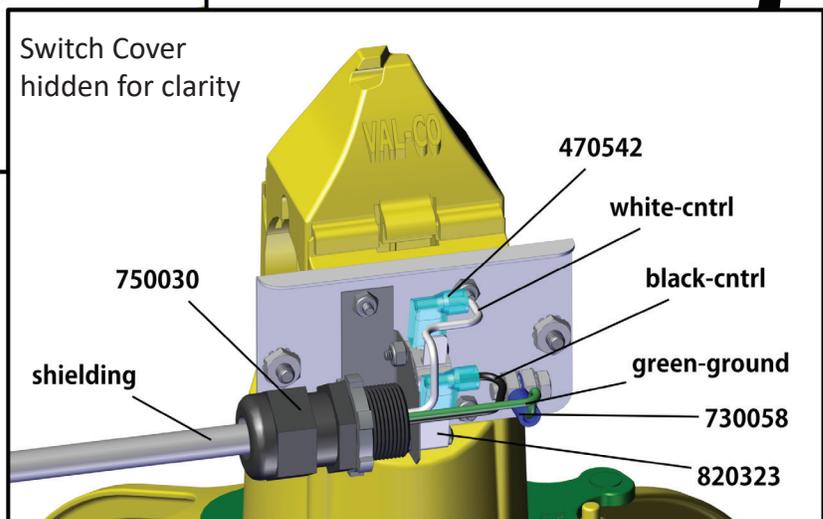
TIGHTEN THE 451008 TUBE CLAMPS OVER THE 820158 NON-SWING BRACKET TABS, AS CLOSE TO THE CONTROL PAN AS POSSIBLE.



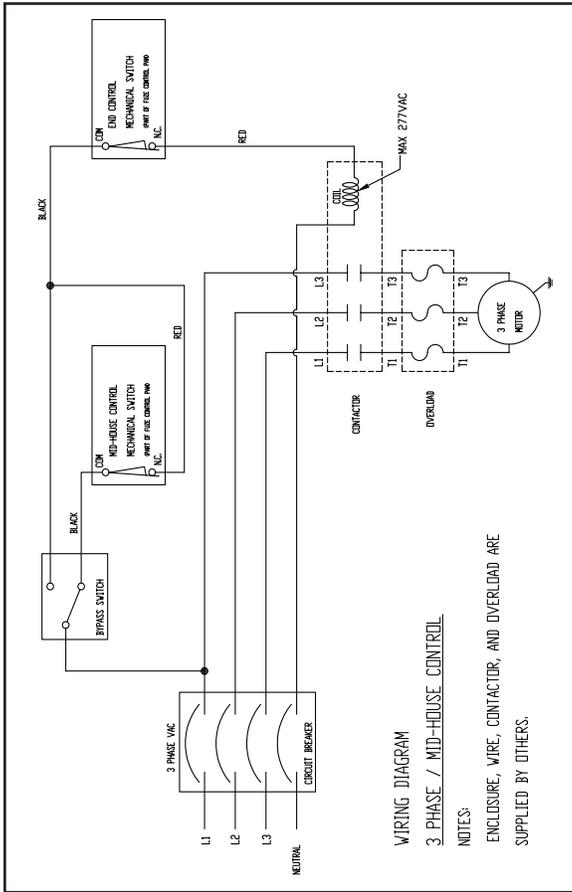
Factory Wiring



SEE WIRING DIAGRAMS ON PAGE 3 FOR CONNECTIONS

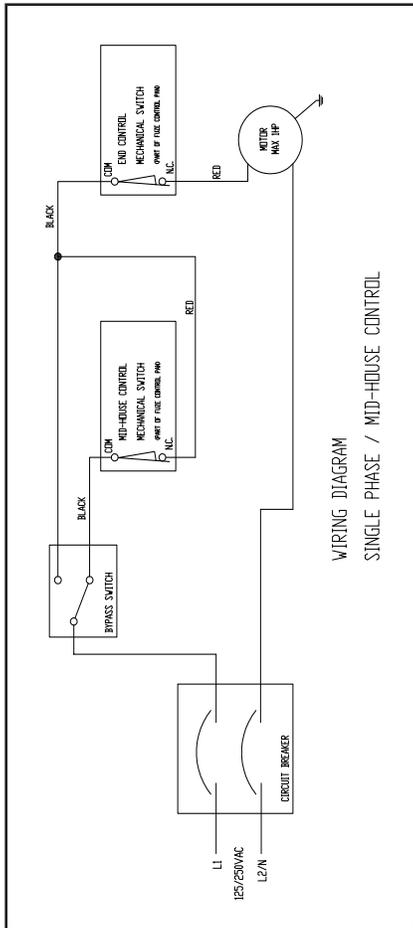
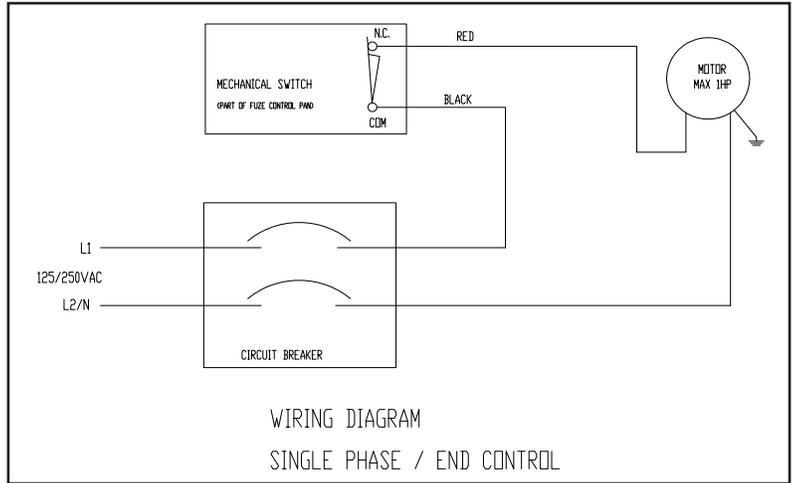


Wiring Diagrams





**WIRING MUST BE DONE BY A LICENSED ELECTRICIAN.
ALL LOCAL CODES MUST BE FOLLOWED!**

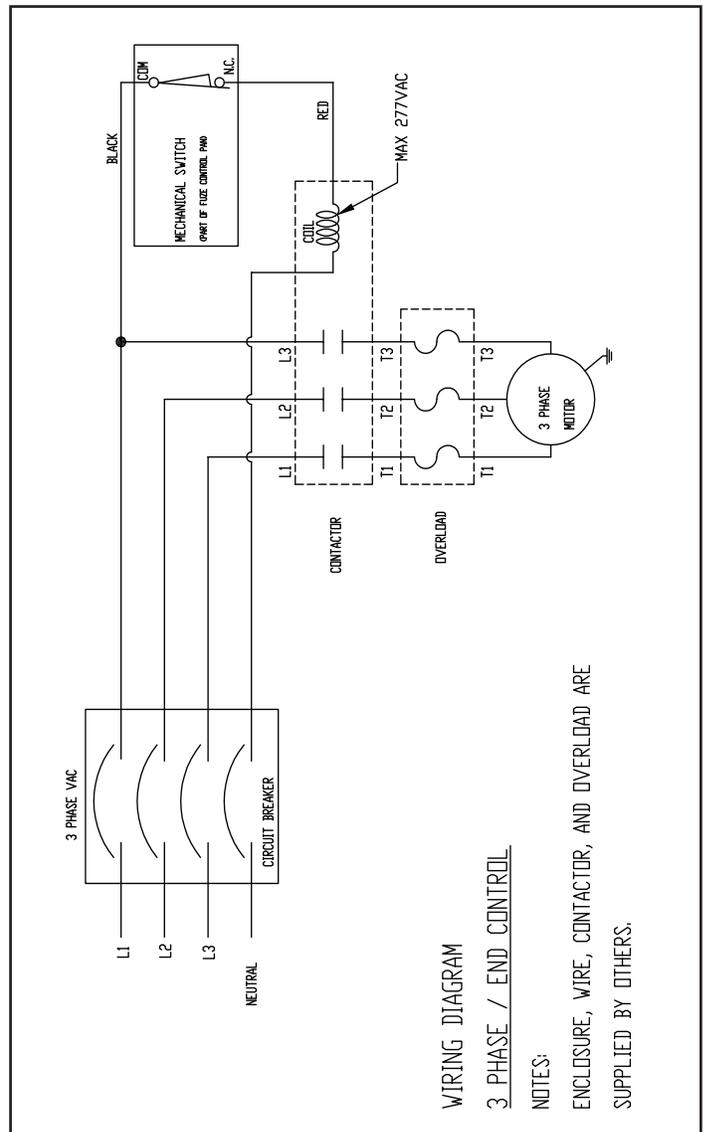




**RELAYS/COILS
MUST BE
INTEGRATED AS
SHOWN.**



**MECHANICAL
SWITCH MUST
NOT BE USED
TO DIRECTLY
SWITCH MOTORS
OVER 1 HP.**



Switch Sensitivity Adjustment

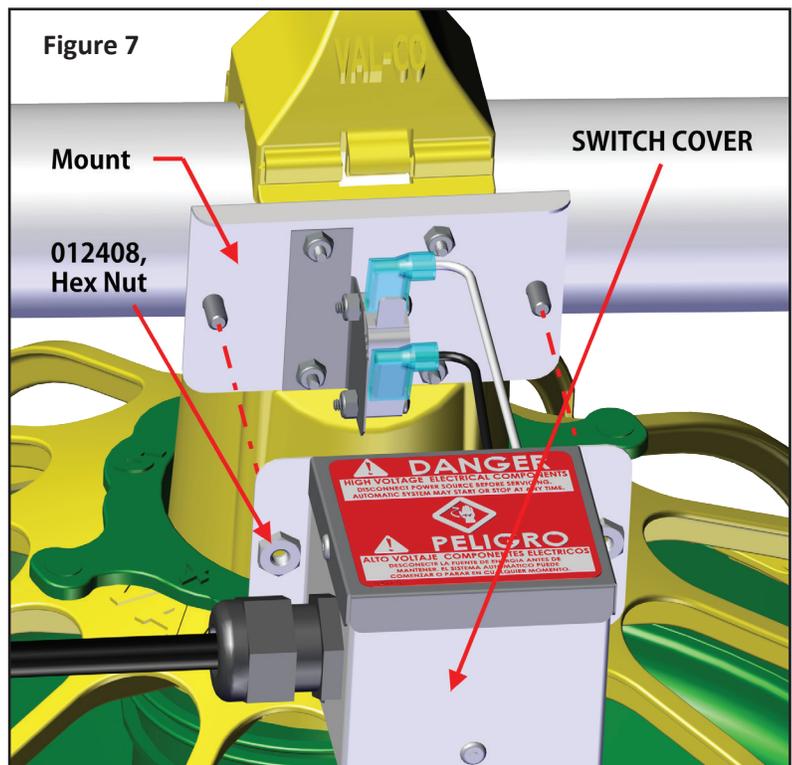
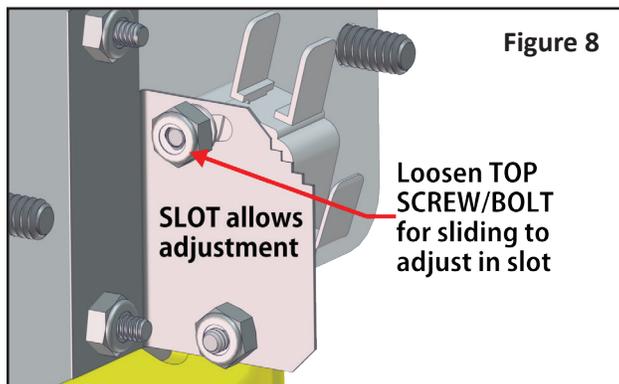


Disconnect power to Switch circuit.



The Switch sensitivity is adjusted from the factory to a range that will work for most feeds. It may be necessary for you to adjust for a specific feed type or when replacing the Switch. Should your Switch require adjustment from the Factory Setup, please follow the steps below.

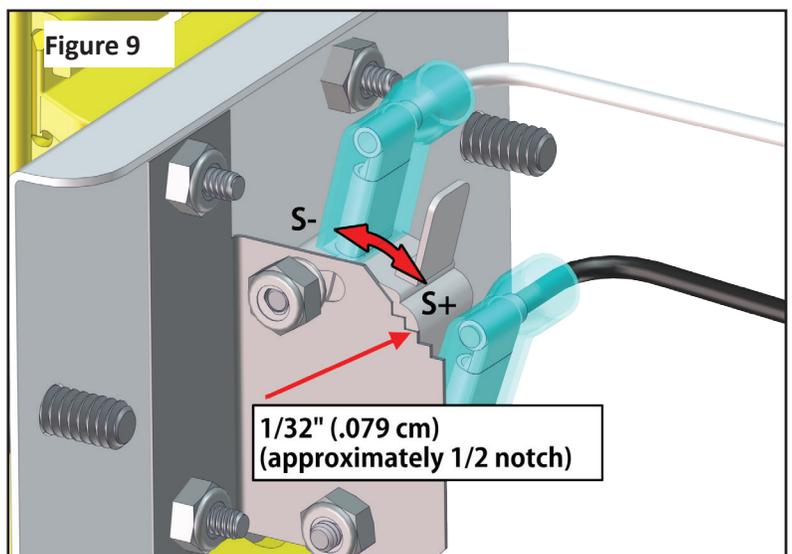
1. Disconnect power to the switch circuit.
2. Remove the two 012408 Hex Nuts that attach the switch cover and gently pull the switch cover away from the mount to access the switch, as shown in Figure 7.
3. Loosen the top switch mounting screw, as shown in Figure 8.



4. Rotate the top of the switch 1/32" (about 1/2 notch), as shown in Figure 9.
 - a) Rotating the top of the switch toward the tower will decrease sensitivity (the tower will fill up more).
 - b) Rotating the top of the switch away from the tower will increase sensitivity (the tower will fill up less).



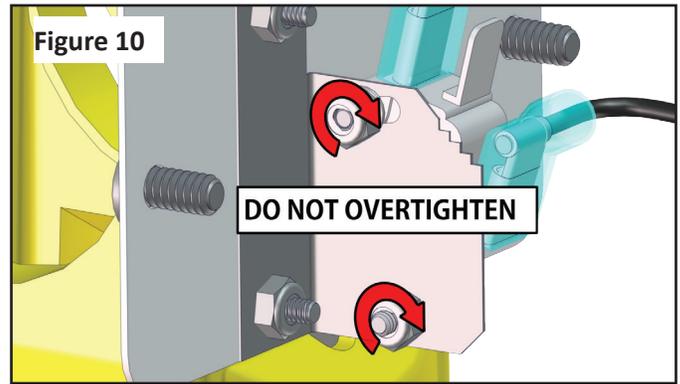
"It does not take much rotation of the switch to greatly influence the sensitivity of the switch. It is better to move in 1/32" (0.079 cm) increments (about 1/2 notch)."



Continue to next page for additional instructions.

Switch Sensitivity Adjustment -continued

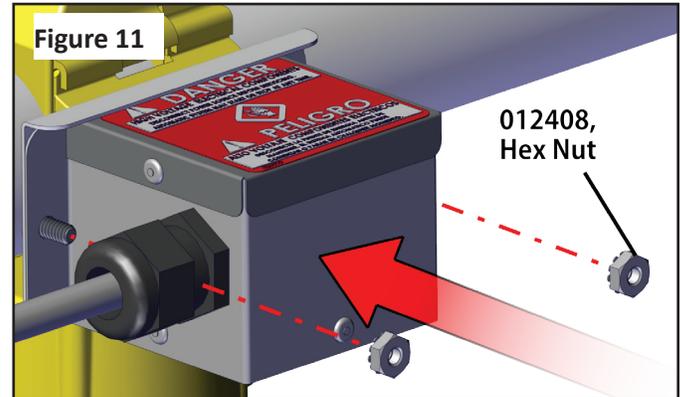
- Without moving the switch, tighten both switch mounting screws. **DO NOT OVERTIGHTEN**, as shown in Figure 10.
- Re-attach the Switch Cover as shown in Figure 11.
- Re-adjust if necessary.



Mechanical Switch Replacement

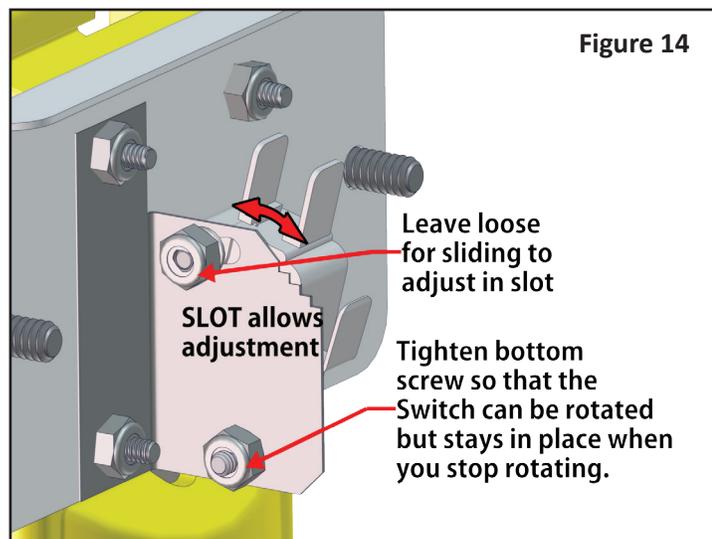
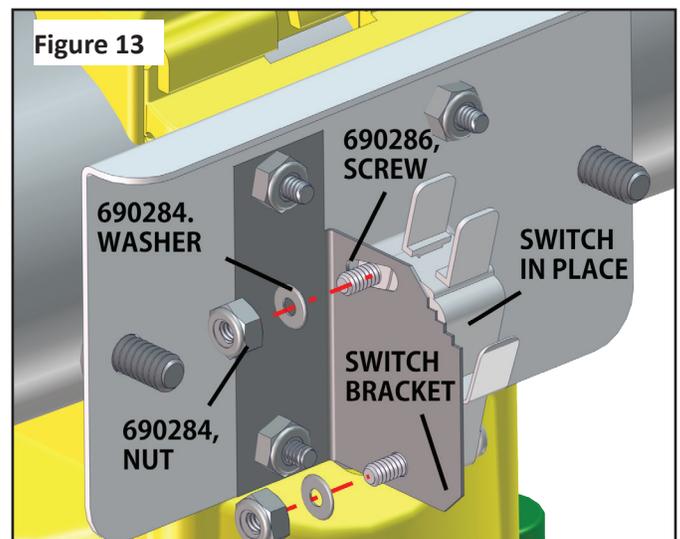
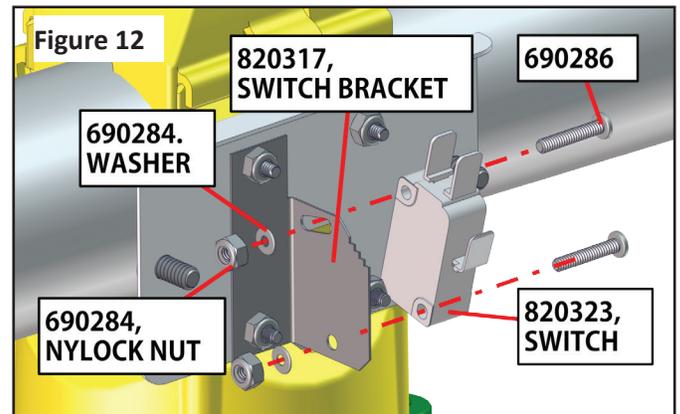
(REMOVING THE OLD SWITCH)

- Disconnect power to the Switch circuit then empty all feed out of the tower and pan.
- Remove the two 012408 nuts that attach the switch cover to the mount, as shown in Figure 7 on page 4.
- Gently pull the switch cover away from the mount and then disconnect electrical terminals from the switch.
- Remove the switch from the bracket, as shown in Figure 12 on this page.



(INSTALLING THE NEW SWITCH)

- Install the replacement switch, as shown in Figure 13 on this page.
- Tighten the bottom screw until the switch can be rotated, but stays in place when you stop rotating it. Keep the top screw loose, as shown in Figure 14.



Switch Sensitivity Adjustment When Replacing the Mechanical Switch

- To set to Switch sensitivity, loosen the Top Screw and slowly rotate the top of the switch AWAY from the tower until you hear the switch click, as shown in Figure 15.
- Then slowly rotate the top of the switch TOWARDS the tower until you hear the switch click again, as shown in Figure 16, below.

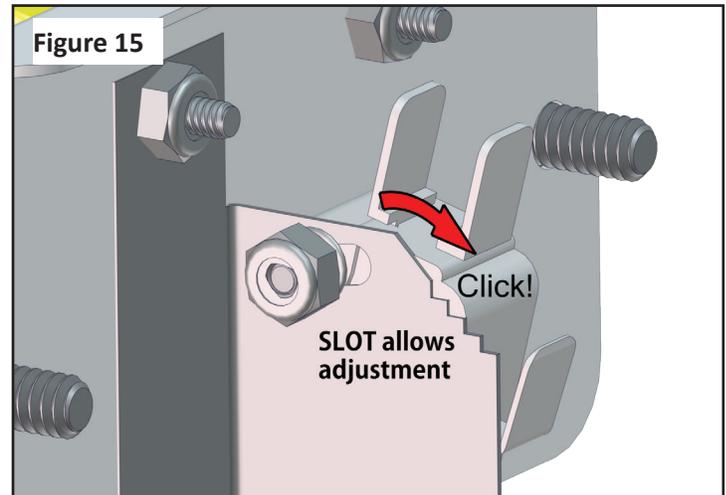
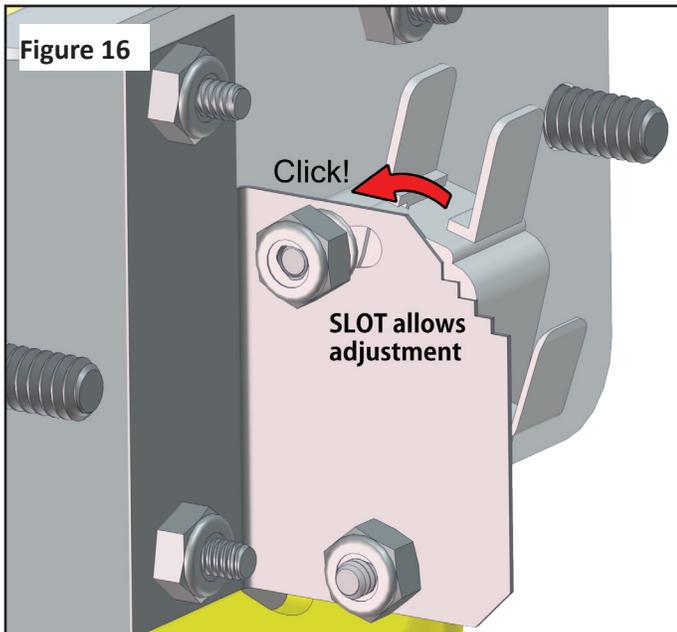


Figure 15

Click!
SLOT allows adjustment



It does not take much rotation of the switch to greatly influence the sensitivity of the switch. It is better to move in 1/32" (0.031 cm) increments (about 1/2 notch).



Do not route wires from motor and control switch that are attached to ceiling under sheet metal plate. They can get tangled and cut during winching.

- Continue to rotate the top of the switch towards the tower another 1/32" (about 1/2 notch).

This should set the Switch to typical Factory Setup

- Without moving the switch, tighten both switch mounting screws. DO NOT OVERTIGHTEN, as shown in Figure 10 on page 5.
- Reach inside the bottom of the tower and move the paddle back to verify the paddle moves freely and opens and closes the switch, as shown in Figure 17.
- Re-attach the Switch Cover, as shown in Figure 11 on page 5.
- If further sensitivity adjustment is required, follow the steps in the "Switch Sensitivity Adjustment" section on page 4.

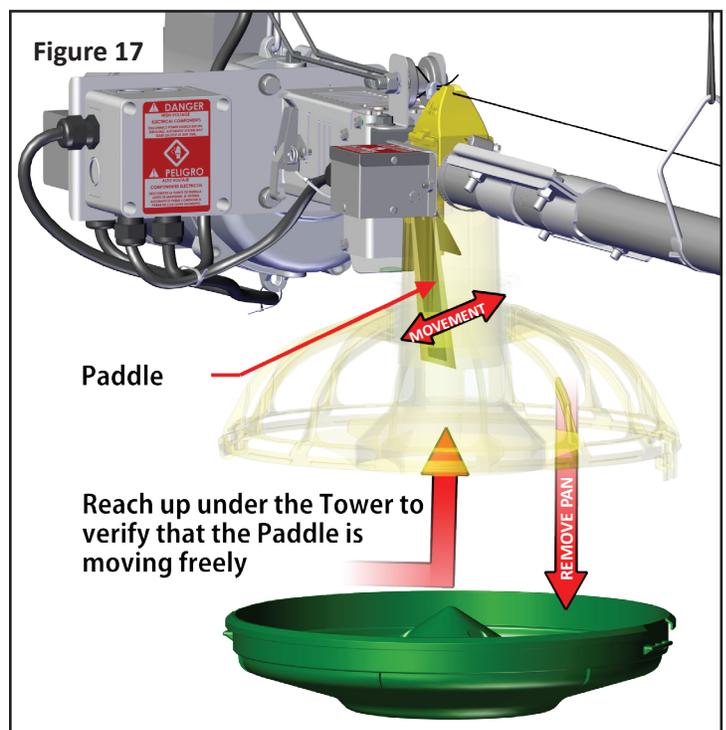


Figure 17

Paddle

Reach up under the Tower to verify that the Paddle is moving freely

REMOVE PAN

Diaphragm Replacement



Disconnect power to Switch circuit.



1. Disconnect power to switch circuit then empty all feed out of the tower and pan.
3. Remove tower from feed line, as shown in Figure 18.
4. Remove pan from grill, as shown in Figure 19.

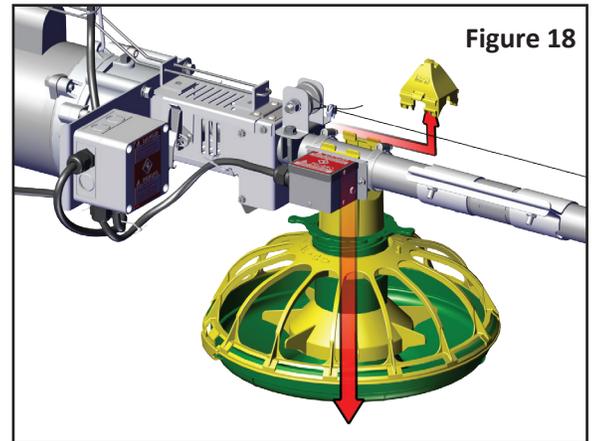


Figure 18

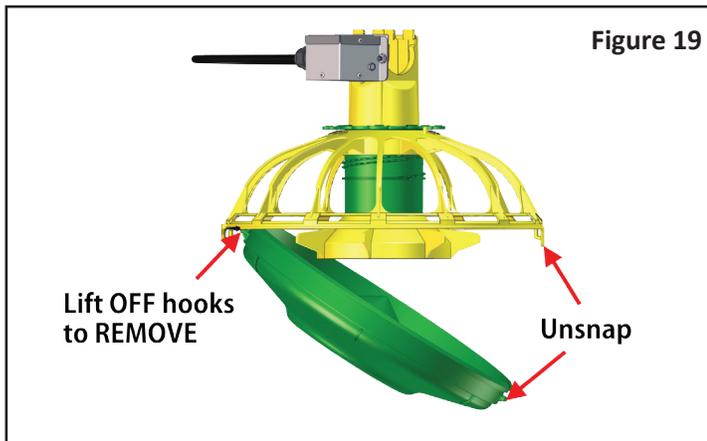


Figure 19

5. Remove the two nuts that attach the switch cover and gently pull the switch cover away from the mount to access the switch. Disconnect the terminals from the switch, as shown in Figure 7 on page 4.
6. Remove the two (2) 690282 screws holding the paddle assembly to the mounting bracket, as shown in Figure 20 .
7. Remove the paddle assembly from the tower, as shown in Figure 21.

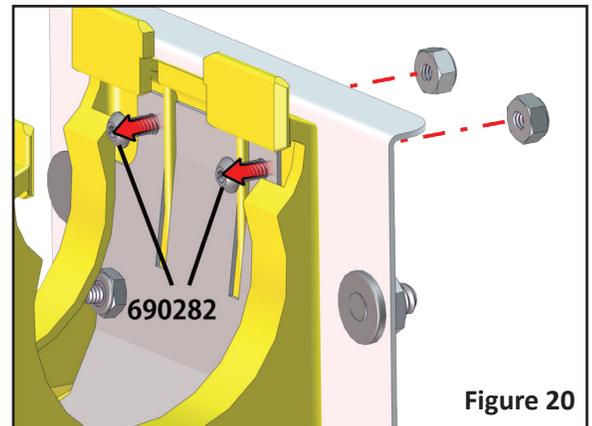


Figure 20

8. Remove the two screws from the paddle assembly, as shown in Figure 22.
9. Replace the diaphragm and re-assemble.
10. Once the control pan is re-installed on the feed line, reset the switch to factory sensitivity. Adjust the sensitivity further if necessary, as show in the *Switch Sensivity Adjustment* section on pages 4, 5 and 6.

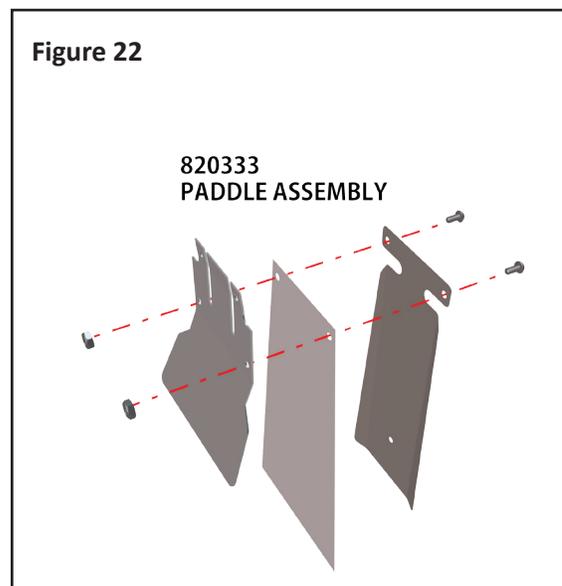


Figure 22

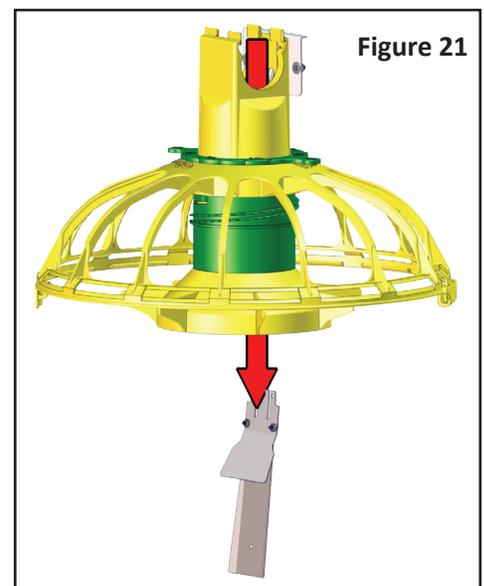
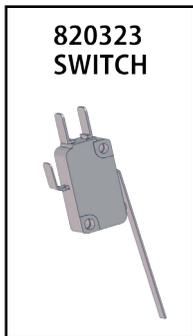
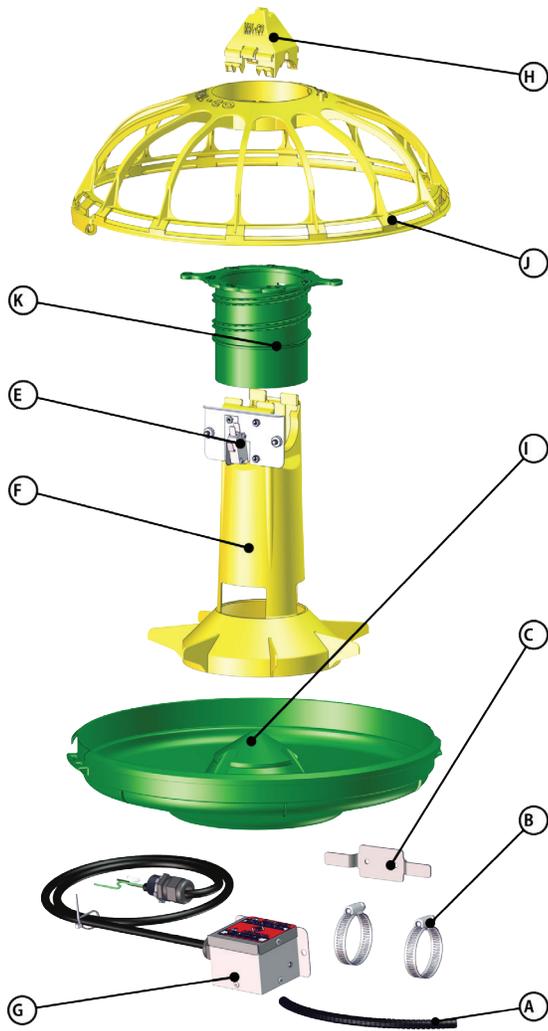


Figure 21

Control Pan Assembly (example for all models) and Control Pan Parts List



Replacement Parts List

PART #	DESCRIPTION	QTY
REPLACEMENT PARTS		
820323	SWITCH, SPDT, 21A, 277VAC, 1HP/125VAC, 2HP/250VAC	1
820324	WIRING ASSEMBLY, FUZE CONTROL PAN, MECH SWITCH	1
820333	PADDLE ASSY, ADJ SWITCH FUZE CONTROL PAN	1

PART #	DESCRIPTION - CONTROL PANS	QTY
<i>Interchangeable Components (all Mech. Switch models)</i>		
A	450965 3/8" CABLE COVER	1
B	451008 1-3/4" SS TUBE CLAMP	2
C	820158 FUZE NON-SWING BRACKET	1
E	820323 SWITCH, SPDT, 21A, 277VAC 1HP/125VAC, HP/250VAC	1
F	820319 TOWER, ADJ. SWITCH, FUZE CONTROL PAN	1
G	820324 WIRING ASSY, FUZE CNTL PAN, MECH SWITCH	1
H	FE1550 FUZE FEEDER TOWER CAP	1
<i>(parts specific to) 820327</i>		
I	FE1510S 13" FUZE SLOTTED STANDARD PAN W/HINGE & LOCK	1
J	FE1520R 13" FUZE GRILL - 13 SPOKES W/ HINGE & LOCK	1
K	FE1540 FUZE ADJ COLLAR - STANDARD PAN	1
<i>(parts specific to) 820328</i>		
I	FE1510LS 13" FUZE SLOTTED SHALLOW PAN W/ HINGE & LOCK	1
J	FE1520R 13" FUZE PRO GRILL - 13 SPOKE W/ HINGE & LOCK	1
K	FE1540S FUZE ADJ COLLAR - SHALLOW PAN	1
<i>(parts specific to) 820329</i>		
I	FE1610S 14" FUZE SLOTTED STANDARD PAN W/HINGE & LOCK	1
J	FE1620R 14" FUZE PRO GRILL - 14 SPOKE W/ HINGE & LOCK	1
K	FE1540 FUZE ADJ COLLAR - STANDARD PAN	1
<i>(parts specific to) 820330</i>		
I	FE1610LS 14" FUZE SLOTTED SHALLOW PAN W/ HINGE & LOCK	1
J	FE1620R 14" FUZE PRO GRILL - 14 SPOKE W/ HINGE & LOCK	1
K	FE1540S FUZE ADJ COLLAR - SHALLOW PAN	1
<i>(parts specific to) 820331</i>		
I	FE1610S 14" FUZE SLOTTED STANDARD PAN	1
J	FE1820R 14" FUZE PRO GRILL - 5 SPOKE W/ HINGE & LOCK	1
K	FE1540 FUZE ADJ COLLAR - STANDARD PAN	1
<i>(parts specific to) 820332</i>		
I	FE1610LS 14" FUZE SLOTTED SHALLOW PAN W/ HINGE & LOCK	1
J	FE1820R 14" FUZE PRO GRILL - 5 SPOKE W/ HINGE & LOCK	1
K	FE1540S FUZE ADJ COLLAR - SHALLOW PAN	1



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