



HS589 Feed Line Control Unit Switch Assembly – 230V Single Phase

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.

Unless otherwise specified, all Feed Delivery Systems (Diameters) are installed similarly.

Note: Switch 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 GrowerSELECT HS589 Control Unit Switch Assembly is designed as replacement switch assembly for HS593 control unit. It can also be used as direct replacement for other OEM control unit applications. The HS589 is designed for use with a flexible auger feed system where control of an auger drive motor is required. Power to the auger drive motor is done through feed pressure being applied to a diaphragm coupled to an electrical switch internal to the control unit housing. This switch is used to control the auger drive motor by turning off the power when feed is present and turning on the power when feed has been removed from the control unit housing.

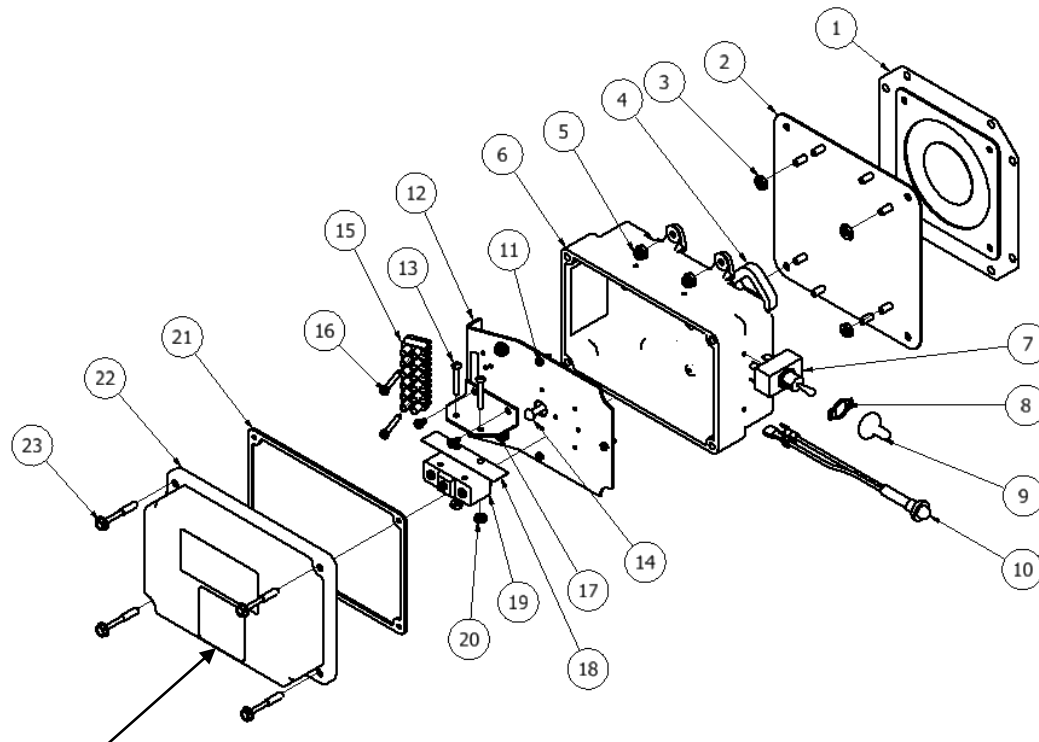
The sensitivity of the electrical switch is not adjustable.

MAXIMUM LOAD RATING: 1 ½ HP @ 230VAC

A red indicator light on the side of the switch housing will illuminate when the diaphragm has been pressed (MOTOR OFF) and the switch has been activated.

The ON/OFF switch is used to enable or disable the Control Unit. **DO NOT USE THIS SWITCH AS DISCONNECTING MEANS FOR SERVICING.**

HS589 Feed Line Control Unit Switch Assembly



Safety Decal HSLABEL-008
"Warning Shock Hazard"

REF #	PART #	DESCRIPTION	REF #	PART #	DESCRIPTION
1	HS582	DIAPHRAGM	17		SWITCH MOUNT
2	HS589-8	ASSY-PLATE, MOUNT CONTROL BOX	18		FILM, INSULATION SWITCH
3		NUT HEX MACHINE SCREW #10-32	19	EL1052M	SWITCH, SNAPACTION 20A @ 250VAC
4	HS529-45	PLUNGER SEAL	20		NUT HEX MACHINE SCREW #6-32
5		LOCKNUT NYLON INSERT #10-32	21	HS589-3	GASKET, COVER SWITCH HOUSING
6		BOX, SWITCH HOUSING HS589	22		COVER, SWITCH HOUSING
7	EL1011	SWITCH, TOGGLE DPST, 20A @ 250V, 2HP	23		SHOULDER SCREW 10-16 X 1.375" HEX HEAD SELF TAPPING SS
8	EL1082	PLATE, LEGEND, VERTICAL ON-OFF			
9	EL1083	SWITCH BOOT			
10	EL1079	LIGHT, INDICATOR NEON RED			
11		SCREW PHILLIPS - TYPE BT #6-20 x .375"			
12		COMPONENT MOUNT PLATE			
13		SCREW PHILLIPS PAN HEAD #6-32- X 1"			
14		SWITCH PIN, PLUNGER			
15	EL1072	TERMINAL STRIP 6 POSITION 10 AWG MAX			
16		SCREW PHILLIPS TYPE #6-32 X 1"			

Installation:

1. (Figure 1) Illustrates a typical installation example of the HS589 control unit switch assembly to a HS593 or other OEM Control Units.

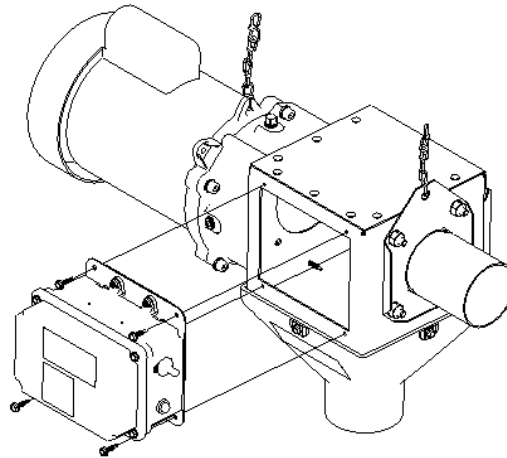


FIGURE 1

2. The HS589 Control Unit must be hardwired. See (Figure 2) for factory internal wiring diagram.
3. See below Figures 3 and 4 for external wiring for single phase and three phase operation.
4. When connecting wire from equipment to terminal strip, remove no more than ¼” of insulation from end of wire. Be sure there are no stray wire strands before inserting wire into terminal strip. Insert wire into terminal ¼” and tighten terminal strip set screw.
5. When using **Hopper Level Control Switch**, switch should be wired as “Normally Closed” contact.
6. If **No Hopper Level Control Switch** is to be used, Place jumper wire between terminals (5) and (6).
7. Use provided self tapping screws to provide bonding to Control Unit Switch Assembly and other connected equipment.
8. Pilot indentions are provided and located to allow for sufficient clearance for ½” non-metallic liquid tight strain relief cord connectors. **DO NOT USE RIGID CONDUIT.**
9. Care should be taken when drilling pilot holes to prevent damage to wires or other components.

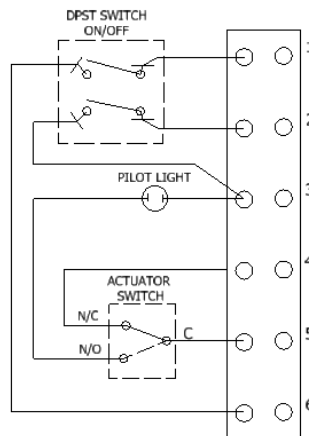


FIGURE 2

WIRING INSTRUCTIONS FOR SINGLE PHASE – 50/60Hz W/O MOTOR STARTER

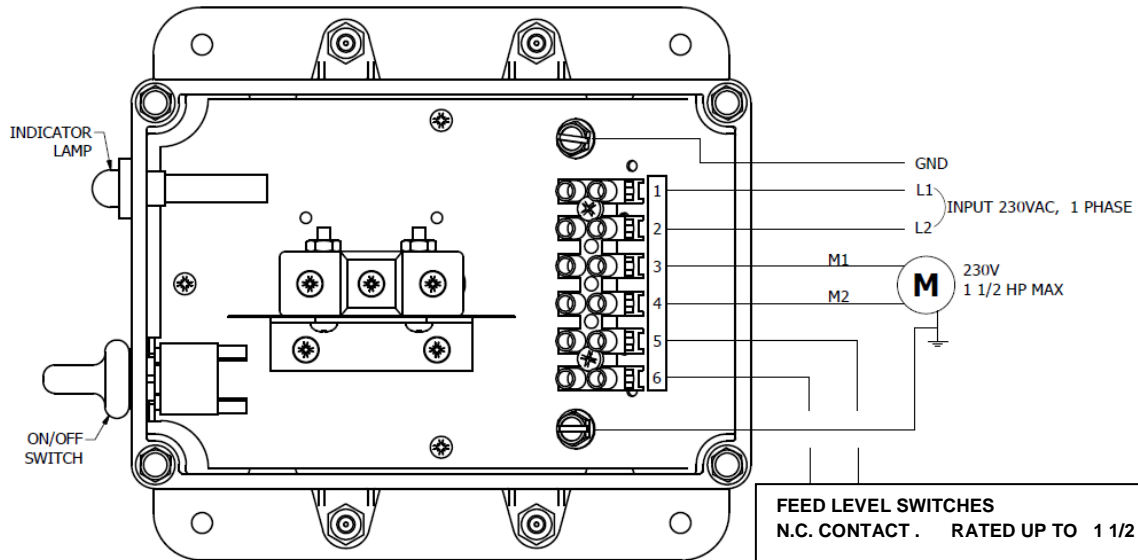


FIGURE 3

FEED LEVEL SWITCHES
N.C. CONTACT . RATED UP TO 1 1/2 HP RATED

HS529
 HS597
 AP-0094
 07051400
 14550 CT
 6606-0114
 HS DTC01
 HALO
 OR
 JUMPER IF NONE USED (16 AWG. WIRE)

WIRING INSTRUCTIONS FOR THREE PHASE – 50/60Hz WITH MOTOR STARTER

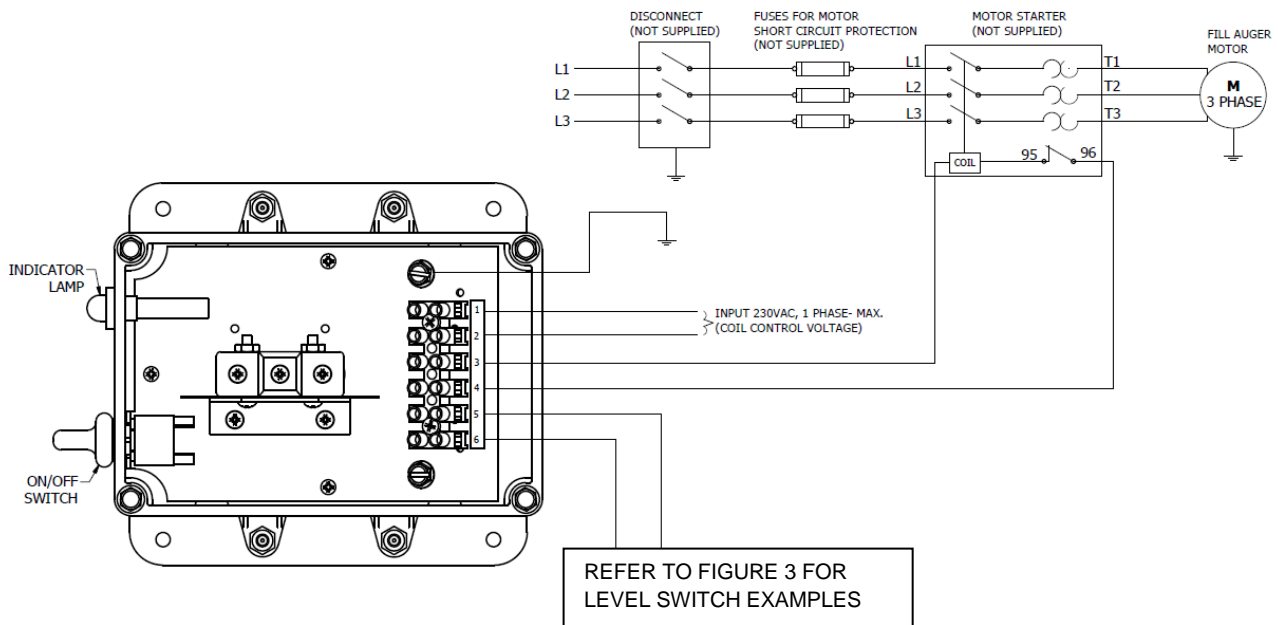
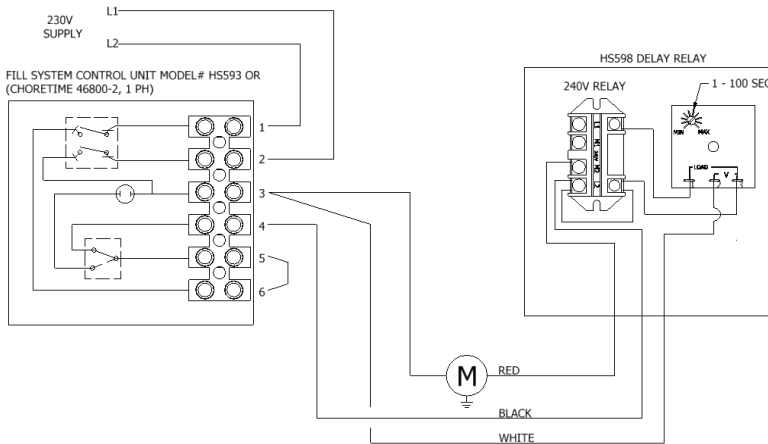


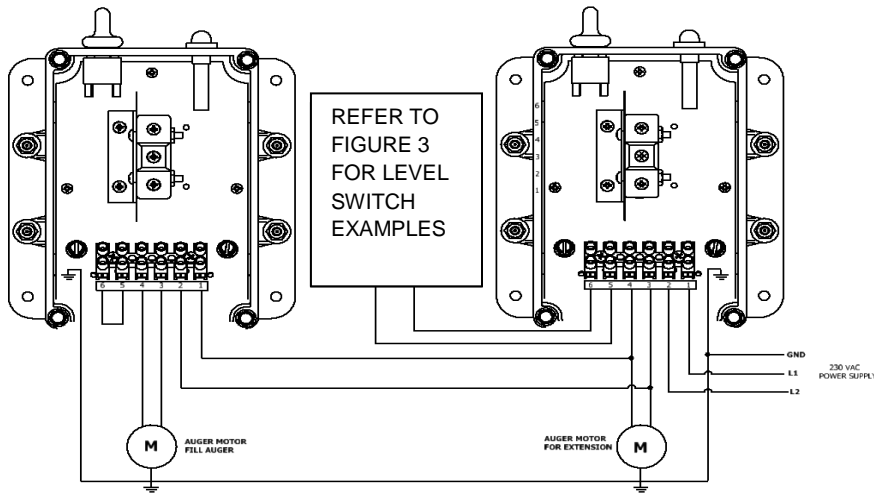
FIGURE 4

REFER TO FIGURE 3 FOR
 LEVEL SWITCH EXAMPLES

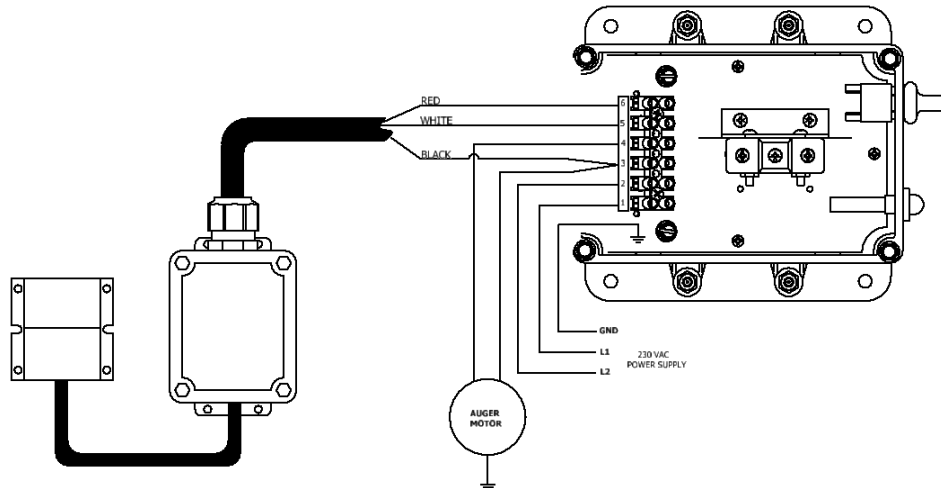
WITH OPTIONAL TIME DELAY:



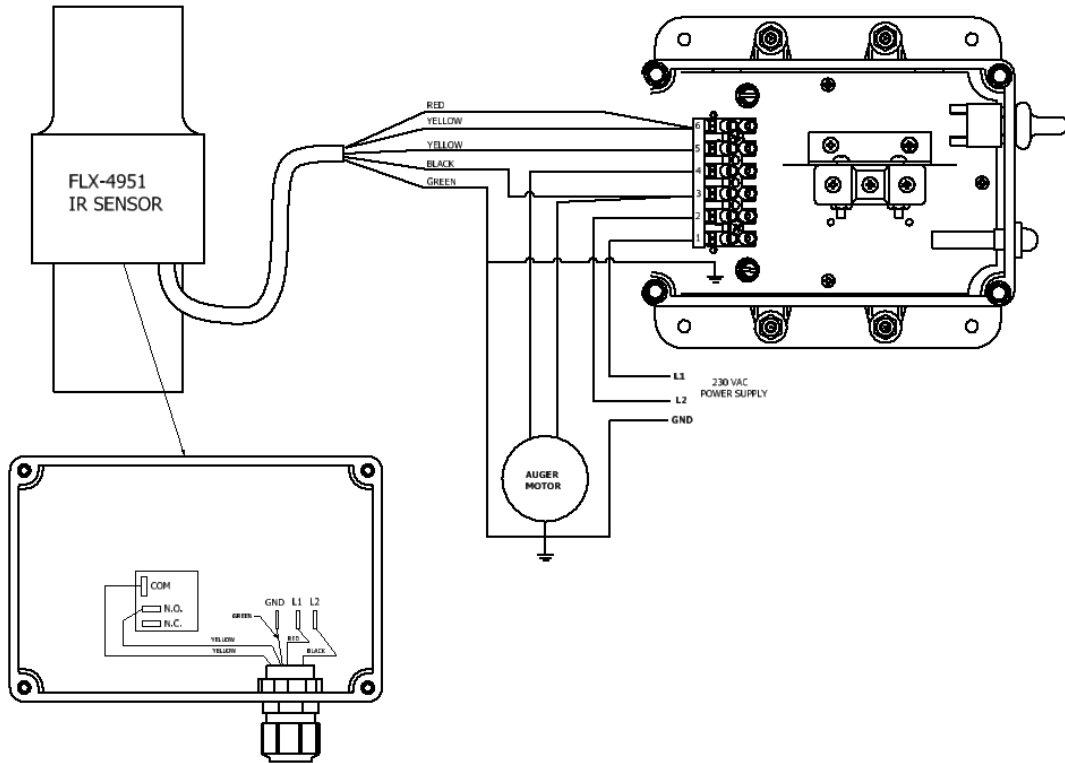
WITH EXTENSION GROW-FLEX™ AUGER USING TWO HS693 CONTROL UNITS



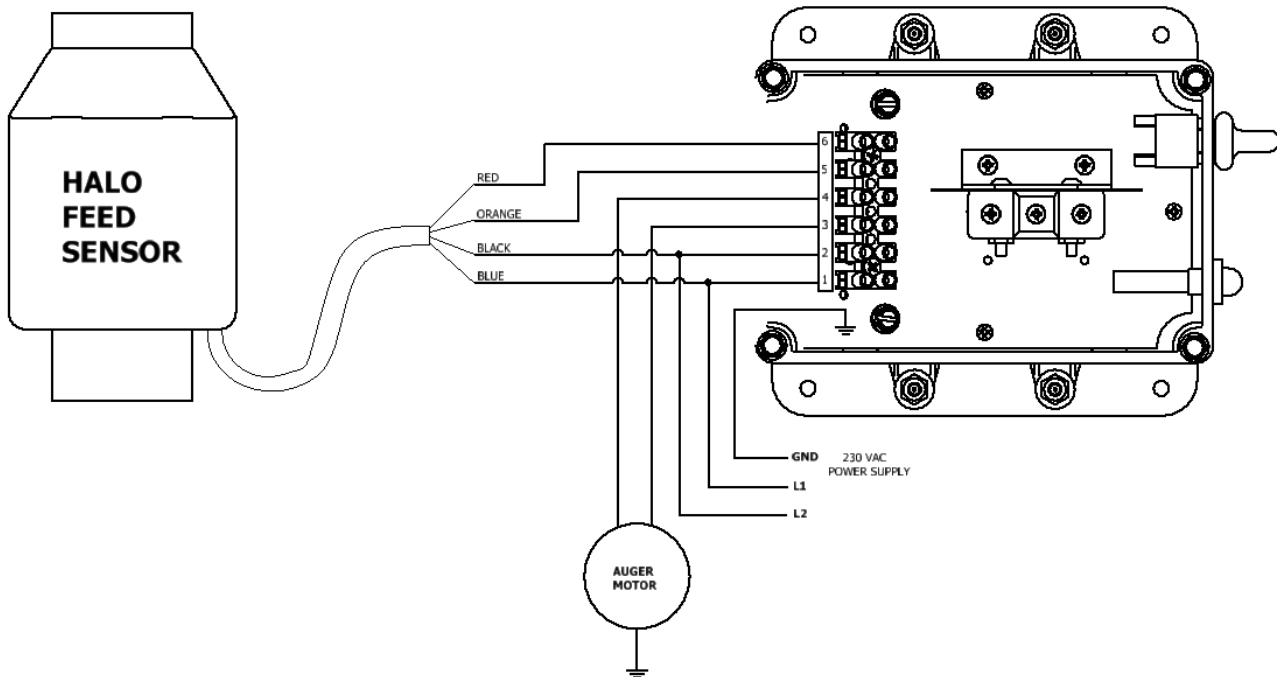
CHORE-TIME 46316 DROP TUBE SWITCH



GSI SMART IR ® SENSOR



HALO JR MAX FEED SENSOR



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Hog Slat warrants products to be free from defects in material or workmanship for a period of twenty-four (24) months from the date of **original purchase**. Hog Slat will credit, repair, or replace, at its option any product deemed defective within this time period. Labor costs associated with the replacement or repair of the product are not covered by the Seller/Manufacturer.

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2. Warranty is void if **all components** are not original equipment supplied by the **Seller/Manufacturer.**
3. This product must be purchased from and installed by an authorized retailer/distributor or certified representative thereof or the Warranty will be void.
4. Malfunctions or failure resulting from misuse, abuse, negligence, alteration, accident, or lack of proper maintenance shall not be considered defects under the Warranty.
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6. This Warranty applies only to the Original Purchaser of the product.

The **Seller/Manufacturer** shall not be liable for any **Consequential or Special Damage** which any purchaser may suffer or claim to suffer as a result of any defect in the product. **“Consequential” or “Special Damages”** as used herein include, but are not limited to, lost or damaged products or goods, costs of transportation, lost sales, lost orders, lost income, increased overhead, labor and incidental costs and operational inefficiencies.

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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