

# Installation Instructions

## HV715EP & HV1030EP Electric-Hydraulic Spreader Control

### Spreader Speed Controller

For Hydraulically driven Tailgate and V-Box Spreaders using the HV715E/ HV1030E valve manifold.

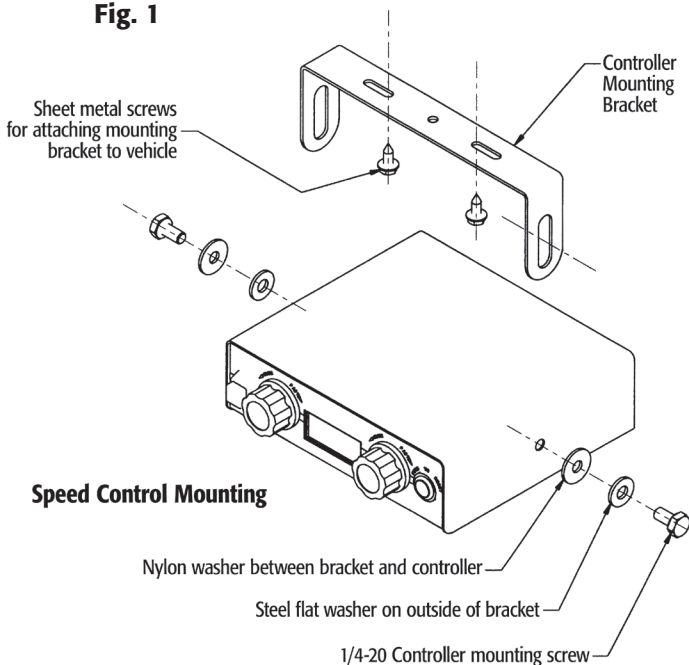
### Fast Start Feature

When control unit is turned on, the controller automatically starts at previous settings for the Auger and Spinner. This makes starts instantaneous without delay. The selected valve position will be indicated on the LED panels as 0-10.

### Auger-Blast Function

When the auger is being operated at less than full power, the operator can deliver a "Blast" of additional salt by depressing the front mounted "Auger Blast" button. Ideal for laying more salt on those "trouble spots." The output to the Auger will return to its preset speed after set time (which is adjustable from 0-30 seconds) has elapsed.

Fig. 1



### WARNING

To prevent serious injury, always turn control off and disconnect spreader from rear plug while servicing or clearing jammed spreader.

The LED panel will indicate "BT" during this function\* the blast button will "illuminate" to indicate that function has been activated.

### Auger Automatic & Manual Function

When the auger "override" wire (blue wire on rear of controller) is connected to +12VDC signal from brake switch and "auger" switch is in the "on" position, the auger will stop feeding product as long as brake pedal is depressed. Auger speed will return to original setting after brake pedal is released. If auger switch is in the "off" position, this disables this function.

### Rear-Mounted Main Fuse

If the spreader valve or wiring harness becomes damaged or shorted out, the main power fuse on controller harness will "blow" shutting off power to controller. The cause must be repaired before replacing fuse. Use 5 amp fuse only.

### Retrofit

The valve controller can be used with all Buyers' Hydraulically driven Tailgate Spreaders, V-Box spreaders as well as other brands. It's easy to upgrade or replace previous models.

### Adjusting Spinner Zero Settings

1. Verify that the spinner knob is turned completely CCW to the zero position before beginning adjustments.
2. Make sure that spinner disk has stopped, if it is rotating, see step #3
3. Using a paperclip (that has been straightened out) depress the "set" button that is located between the two led displays on front of controller to put controller into "adjustment mode".
4. Using the "speed" buttons below the spinner display, press the "Right" speed button to decrease the output to the spinner disk.
5. After spinner stops rotating, use the paper clip to depress the "set" button to lock-in setting.

### Adjusting Spinner Span Settings

1. Verify that the spinner knob is turned completely CW to the max speed position you want before beginning adjustments.
2. Check to see that spinner disk is spinning at desired speed then proceed to step #3
3. Using a paperclip (that has been straightened out) depress the "set" button that is located between the two led displays on front of controller to put controller into "adjustment mode".
4. Using the "speed" buttons below the spinner display, press the "Left" speed button to increase the output to the spinner disk if it is rotating to slow.
5. After spinner is rotating at desired speed, use the paper clip to depress the "set" button to lock-in setting.

### Adjusting Auger Zero Settings

1. Verify that the Auger knob is turned completely CCW to the zero position before beginning adjustments.
2. Make sure that Auger is stopped, if it is moving proceed to step #3
3. Using a paperclip (that has been straightened out) depress the "set" button that is located between the two led displays on front of controller to put controller into "adjustment mode".

4. Using the "speed" buttons below the Auger display, press the "Right" speed button to decrease the output to the Auger motor.

5. After Auger stops moving, use the paper clip to depress the "set" button to lock-in setting.

### Adjusting Auger Span Settings

1. Verify that the Auger knob is turned completely CW to the max speed position you want before beginning adjustments.

2. Check to see that auger is moving at desired speed then proceed to step #3

3. Using a paperclip (that has been straightened out) depress the "set" button that is located between the two led displays on front of controller to put controller into "adjustment mode".

4. Using the "speed" buttons below the Auger display, press the "Left" speed button to increase the output to the auger until desired speed is achieved.

5. After Auger is moving at desired speed, use the paper clip to depress the "set" button to lock-in setting.

### Setting Blast Time

1. Check to make sure the Auger speed knob is NOT turned to full speed before beginning blast time adjustment.

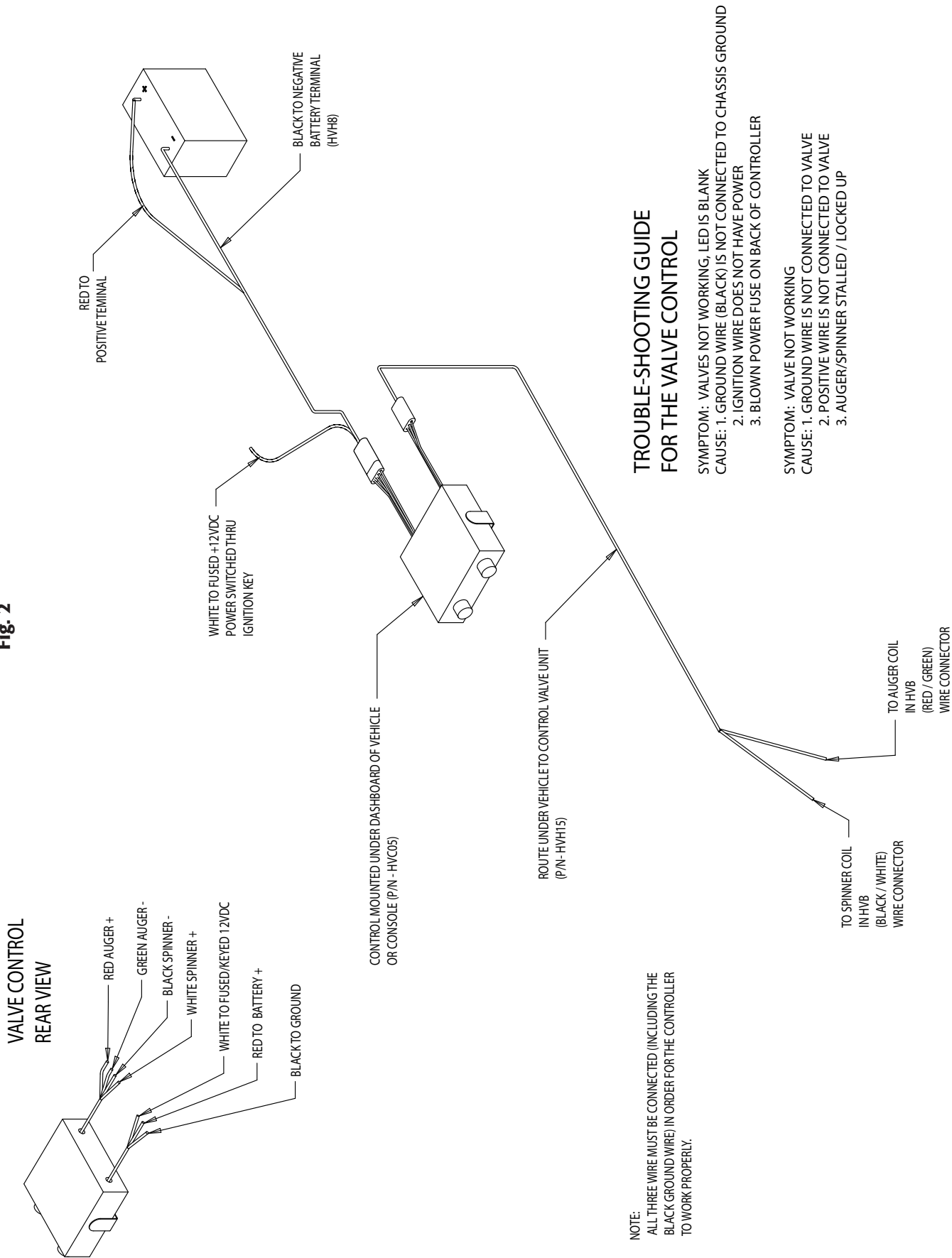
2. Press the "blast button" on the front of the controller to initiate the "blast" function.

3. Using the same paper clip that was used for spinner and auger adjustments, depress the "set" button between the two led displays to enter setting mode.

4. The auger display will show "BT", using the "speed" buttons below the auger display, press the "left" button to increase the blast time or press the "right" button to decrease the blast time.

5. Use paper clip,press the "set" button again to lock in value.

**Fig. 2**

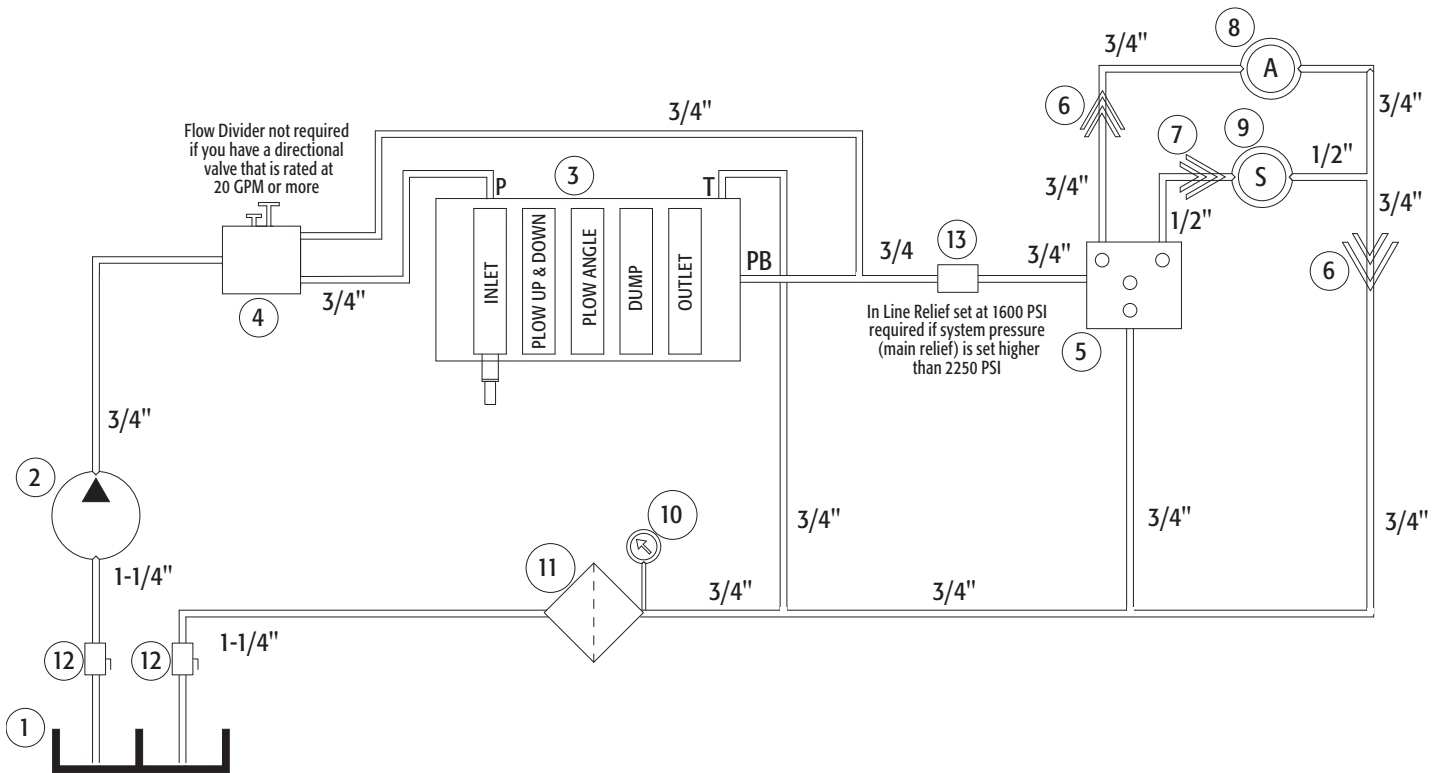


**NOTE:**  
ALL THREE WIRE MUST BE CONNECTED (INCLUDING THE BLACK GROUND WIRE) IN ORDER FOR THE CONTROLLER TO WORK PROPERLY.

**TROUBLE-SHOOTING GUIDE FOR THE VALVE CONTROL**

- SYMPTOM:** VALVES NOT WORKING, LED IS BLANK  
**CAUSE:** 1. GROUND WIRE (BLACK) IS NOT CONNECTED TO CHASSIS GROUND  
 2. IGNITION WIRE DOES NOT HAVE POWER  
 3. BLOWN POWER FUSE ON BACK OF CONTROLLER
- SYMPTOM:** VALVE NOT WORKING  
**CAUSE:** 1. GROUND WIRE IS NOT CONNECTED TO VALVE  
 2. POSITIVE WIRE IS NOT CONNECTED TO VALVE  
 3. AUGER/SPINNER STALLED / LOCKED UP

**Hydraulic Schematic**  
 shown with 11 GPM Directional Valve Bank



- 1- RESERVOIR
- 2- PUMP
- 3- VALVE (HVE344PB Shown)
- 4- FLOW DIVIDER
- 5- VALVE, SPREADER
- 6- QUICK DISCONNECT 3/4"
- 7- QUICK DISCONNECT 1/2"
- 8- MOTOR, AUGER
- 9- MOTOR, SPINNER
- 10- GAUGE
- 11- FILTER
- 12- VALVE, BALL
- 13- RELIEF VALVE, IN LINE

**Parts List**

QTY	HV715EP	HV1030EP	DESCRIPTION
1	HV715E	HV1030E	Valve, Spreader, Electric
1	3016036	3016036	Box, HV715E/HV1030E
1	HVC05	HVC05	Controller, HV715EP or HV1030EP
1	HVH15	HVH15	Harness, Wire 15'
1	HVH8	HVH8	Harness, Wire 8'
1	3016035	3016035	Bracket HV715E/HV1030E
2	FSH025020400	FSH025020400	Screw, Socket HD Cap 1/4" x 4" LG
2	FWF025063007	FWF025063007	Washer, Flat 1/4" SAE ZN
2	FNE025020031	FNE025020031	Nut-Elastic Stop 1/4"-20 ZINC
4	FSH010032075	FSH010032075	Screw, Socket HD Cap, 10-32 x 3/4" PL
1	3011514	3011514	Instruction Sheet, HV715EP/HV1030EP
1	3016037	3016037	Gasket

**WARRANTY**

Buyers Products Co. warrants all truck/trailer hardware manufactured or distributed by it, to be free from defects in material and workmanship for a period of one year from date of shipment. Parts must be properly installed and used under normal conditions. Any product which has been altered, including modification, misuse, accident or lack of maintenance will not be considered under warranty. Normal wear is excluded. The sole responsibility of Buyers Products Co. under this warranty is limited to repairing or replacing any part or parts which are returned, prepaid, and are found to be defective by Buyers Products Co. Authorization from Buyers Products Co. must be obtained before returning any part. No charges for transportation or labor performed on Buyers' products will be allowed under this warranty.