

Installation Instructions

HVC07 & GPS3 Electric-Hydraulic Spreader & Electric Liquid Spray Controller

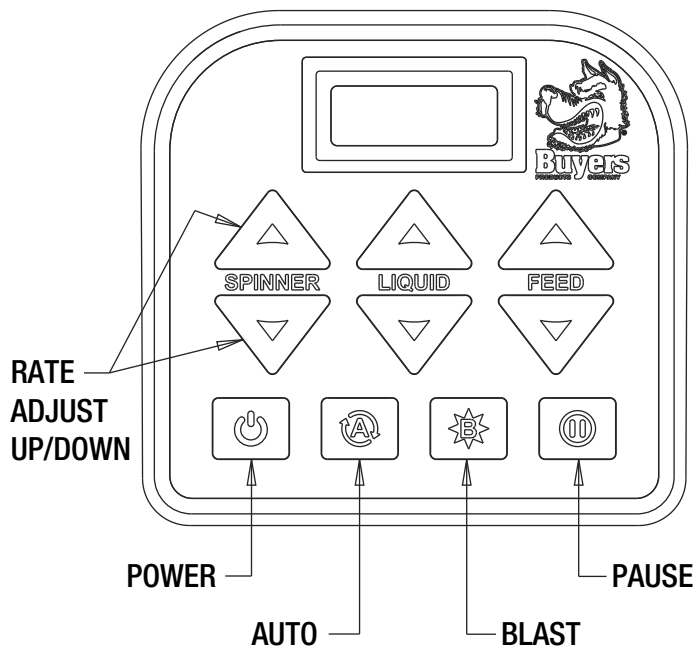
Spreader Controller

For hydraulically driven tailgate and v-box spreaders using the HV715E/HV1030E valve or similar proportional valve block. There is also an incorporated liquid spray controller for use with Buyers Products electrically controlled LS systems or similar units.

⚠ WARNING

- To prevent serious injury, always turn controller off and disconnect spreader while servicing or clearing jammed spreaders.
- Ensure that controller mounting does not interfere with airbag operation.
- Ensure wires are clear of hot or moving components.

CONTROLLER OPERATING INSTRUCTIONS



ON/OFF

Start the vehicle engine before turning on the controller to prevent the battery from draining. Press and hold the POWER button for 1-2 seconds to turn on the controller. When the controller is powered on, it will start in PAUSE mode to prevent accidental movement of the spreader system.



AUTO

The AUTO button switches between MANUAL and AUTO mode. There are 3 different auto modes to choose from: GPS, SPEED and STOP. The AUTO mode is selected and setup in the settings menu.

BLAST

When the BLAST button is pressed, the liquid and feed will both output at speed 10 (full output) for a preset time which can be adjusted from 1 to 30 seconds in the settings menu. This is ideal for trouble spots or areas that need more salt/material put down.

PAUSE

Pressing the PAUSE button will immediately stop all spreader outputs until the PAUSE button is pressed again. The display will flash PAUSE when in PAUSE mode.

SPINNER, LIQUID & FEED ADJUSTMENT

Press the UP and DOWN buttons to adjust the speed of the corresponding output. The display will show speeds from 0 (off) to 10 (full output). The controller will remember the last used speed settings when turned on.

WARRANTY

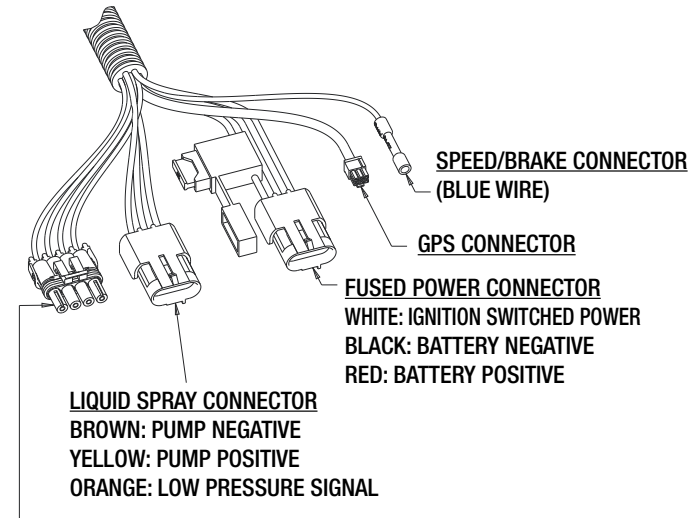
Buyers Products Co. warrants all truck/trailer hardware manufactured or distributed by it, to be free from defects in material and workmanship for a period of one year from date of shipment. Parts must be properly installed and used under normal conditions. Any product which has been altered, including 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.

CONTROLLER WIRING

The 3-pin connector with the in-line fuse is the power connector.

Note – the liquid output uses the same connector so make sure the correct one is connected to power.

If the spreader valves or wiring becomes damaged or shorted out, the main power fuse on the controller harness will “blow” shutting off power to the controller. The cause must be repaired before replacing the fuse. Use a 20-amp mini automotive style fast blow fuse only.

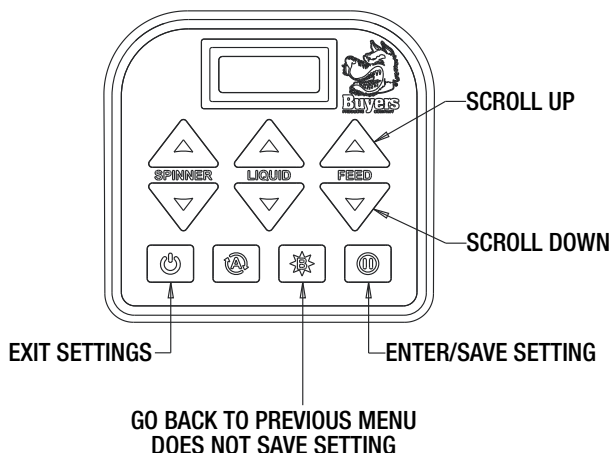


SPINNER/FEED CONNECTOR

PINK: SPINNER POSITIVE
GREEN/YELLOW: SPINNER NEGATIVE
GREEN: FEED NEGATIVE
PURPLE: FEED POSITIVE

CONTROLLER SETTINGS

To enter the settings menu, turn the controller OFF. Hold down both the POWER and PAUSE buttons until the settings menu is displayed.



Navigating Menus

Press the feed UP and DOWN buttons to scroll through the menus. Press the PAUSE button to enter a menu and to save selections. The BLAST button goes back to the previous menu without saving selections. Press the POWER button at any time to exit the settings. Make sure to save any selections with the PAUSE button before exiting.

1. VOLUME

The button volume and alarm volume can be independently changed from 0 (off) to 5 (loudest).

2. LCD BRIGHT (LCD Brightness)

The screen backlight brightness can be changed from 1 (dimmiest) to 5 (brightest).

3. LIQUID OUT

If the incorporated liquid spray portion of the controller will not be used, the output can be disabled. The main display will not show a number for the liquid speed and the liquid UP and DOWN buttons will not function. The liquid controller can be turned back on at any time in the settings.

4. RATE ADJ (Rate Adjustment)

This setting allows fine adjustment of the spinner, liquid and feed outputs at each speed (1 to 10). Each speed can be adjusted from 0 (off) to 100 (full output).

5. BLAST TIME

The blast time can be adjusted in 1 second increments from 1 to 30 seconds.

6. AUTO MODE

- **GPS MODE** – The optional GPS3 module will track the vehicle speed and automatically adjust the liquid and feed outputs. To enable GPS mode, connect the GPS3 module to the gps connector exiting the rear of the controller and select GPS in the settings.

- **SPEED MODE** – The controller can track the ground speed using the vehicle tachometer. To enable SPEED mode, connect the vehicle ground speed wire to the speed/brake connector (BLUE wire) exiting the rear of the controller and select SPEED in the settings. The vehicle speed must be calibrated with the controller using the SPEED CAL menu before use.

- **STOP MODE** – This will pause the liquid and feed output when the brakes are applied. The spinner will continue to run for 30 seconds and then stop to prevent material build up on the spinner. To enable STOP mode, connect the vehicle brake wire to the speed/brake connector (BLUE wire) exiting the rear of the controller and select STOP in the settings.

- **VEL LIMITS (VELOCITY LIMITS)** – Used for GPS and SPEED modes only. VEL MIN is the vehicle speed at which the liquid and feed outputs will begin at speed 1. VEL MAX is the vehicle speed at which the liquid and feed outputs will be at speed 10 (full output).

7. LOW PR AL (Low Pressure Alarm)

- **ENABLED** – The low-pressure alarm should be ENABLED if a low-pressure switch is used in the liquid setup. When this setting is ENABLED and there is a low-pressure event, the controller will emit an alarm sound and the display will show LOW PRESSURE. This is to notify the user of an empty/low liquid tank or a leak.

- **DISABLED** – The low-pressure alarm should be DISABLED if a low-pressure switch is not used in the liquid setup. Note – disabling the low-pressure alarm may cause the pump to run dry, it is the operator’s responsibility to ensure fluid is maintained in the liquid tanks.

- **8. SPEED CAL (Speed Calibration)** – FOR SPEED MODE ONLY Drive the vehicle at 25mph and then press PAUSE to calibrate the controller to the vehicle tachometer.

- **9. ABOUT** - Displays controller hardware and current firmware installed.