

October 1, 2020

COMMERCIAL SEED TENDER CST-1550

REAR CONVEYOR LIMIT SWITCH GUIDE

The limit switches on the rear conveyor control the conveyors movements safely. Here is a description of their operation.

⚠ WARNING

CONVEYOR MOVEMENT HAZARD

Clear area before moving the conveyor.
Some movements may be sudden causing injury.

NOTICE

CONVEYOR DAMAGE HAZARD

Periodical adjustment of the limit switches
may be necessary after long travel/rough roads.

Note:

Each limit switch is labeled in two ways:

- #1, #2, etc - refers to the sequence in which the switch is used to move the conveyor.
- L1, L2, etc - refers to it's placement on the circuit board.



Rotation Centre Limit Switch (#1, L3):

The switch must contact the plate as the conveyor swings 180° from stow position.

The Green LED (in the light box at top, rear of tender) will illuminate when the rear conveyor has triggered the switch.

- The conveyor must be at rotation centre for all other movements to happen.

If the green LED doesn't light, there may be an electrical issue to check.



Rotation Centre Limit Switch

CONVEY-ALL™

Transport Cylinder Limit Switch (#2, L5):

This switch is active from when the cylinders are retracted, and deactivates once the hopper end is lowered fully.

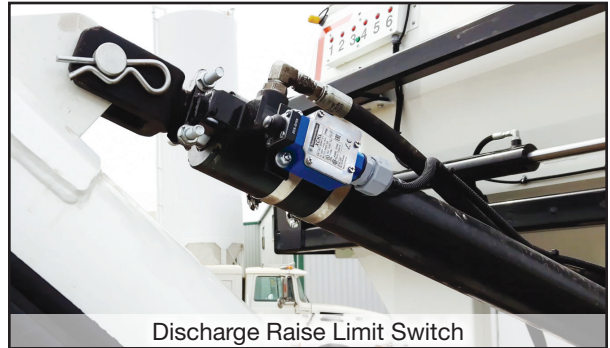
- In the same action, a cylinder will also lift the conveyor's discharge.
- To lower the hopper switches #1 and #5, must be activated.



Transport Cylinder Limit Switch

Discharge Raise Limit Switch (#3, L4):

This switch contacts the centre of a plate when the cylinder is retracted completely, with the discharge is at it's highest point.



Discharge Raise Limit Switch

Shuttle Centre Limit Switch (#4, L1):

The switch (at the centre of the rear frame) must contact the conveyor frame once it arrives at the centre of the tender.

- To shuttle the frame to centre, switches #1, and #3 must be activated, #2 is deactivated.

Note:

To swing, lift and lower the conveyor into working position, switch #4 must be active.

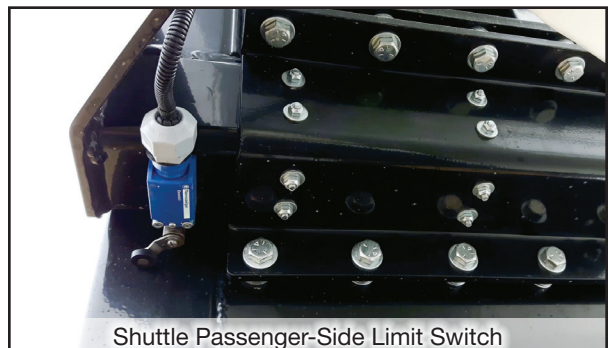


Shuttle Centre Limit Switch

Shuttle Passenger-Side Limit Switch (#5, L2):

The switch must contact the frame as it arrives at the corner of the tender.

- To return the conveyor frame to the passenger-side for stowing, switches #1, and #3 must be activated, #2 is deactivated.



Shuttle Passenger-Side Limit Switch

Be sure that each limit switch contacts the frame correctly for its specific function. Each switch is attached using nuts and bolts to allow for simple adjustments.

Accurately placed switches allow the rear conveyor to move correctly without restriction or damage to the tender itself.