



Safety Bumper Interlock Instructions

Whenever moving scenery passes through a stationary opening a pinch point is created that could crush performers or scenery or both. To decrease risk of injury, a rubber Safety Bumper Switch should be installed around the opening to stop all motion if any protruding object is caught between the moving scenery and the stationary opening. In order to integrate the Safety Bumper Switch with your Stagehand control, a Safety Bumper Interlock control box must be used. The Safety Bumper Interlock serves two purposes:

1. Converting the "Normally Open" contacts of bumper switches into a fail-safe, "Normally Closed" signal.
2. Interrupting one of the limit switch signals of your winch (or other machine) whenever a safety bumper is struck. This will stop the movement of the machine in one direction whenever a bumper is hit, but allow the motion to be reversed and clear the obstruction.

Hook up instructions:

1. Connect the Safety Bumper Interlock to the Showstopper.
2. Connect the Bumper Switch (aka "Tape Switch") to the Safety Bumper Interlock. There are two leads on the end of the Bumper Switch, you must connect both leads for proper operation. You may daisy chain multiple Bumper Switches together to surround more edges of an opening.
3. Plug either the FWD or REV limit switch of your machine into the Safety Bumper Interlock. Ensure that you use the switch that matches the direction of travel the Bumper Switch should affect.
4. Connect the Limit Switch Output of the Safety Bumper Interlock to the correct limit switch input on the Stagehand.
5. TEST THE OPERATION OF THE BUMPER SWITCH TO ENSURE PROPER OPERATION. WHENEVER THE BUMPER SWITCH IS TOUCHED, THE SCENERY SHOULD NOT MOVE TOWARDS THE BUMPER SWITCH.

Status Lights:

- Green Light = E-Stop is clear, Bumper Switch is clear
- Red Light = E-Stop is clear, Bumper Switch is hit
- No Lights = E-Stop have been activated or E-Stop unplugged

