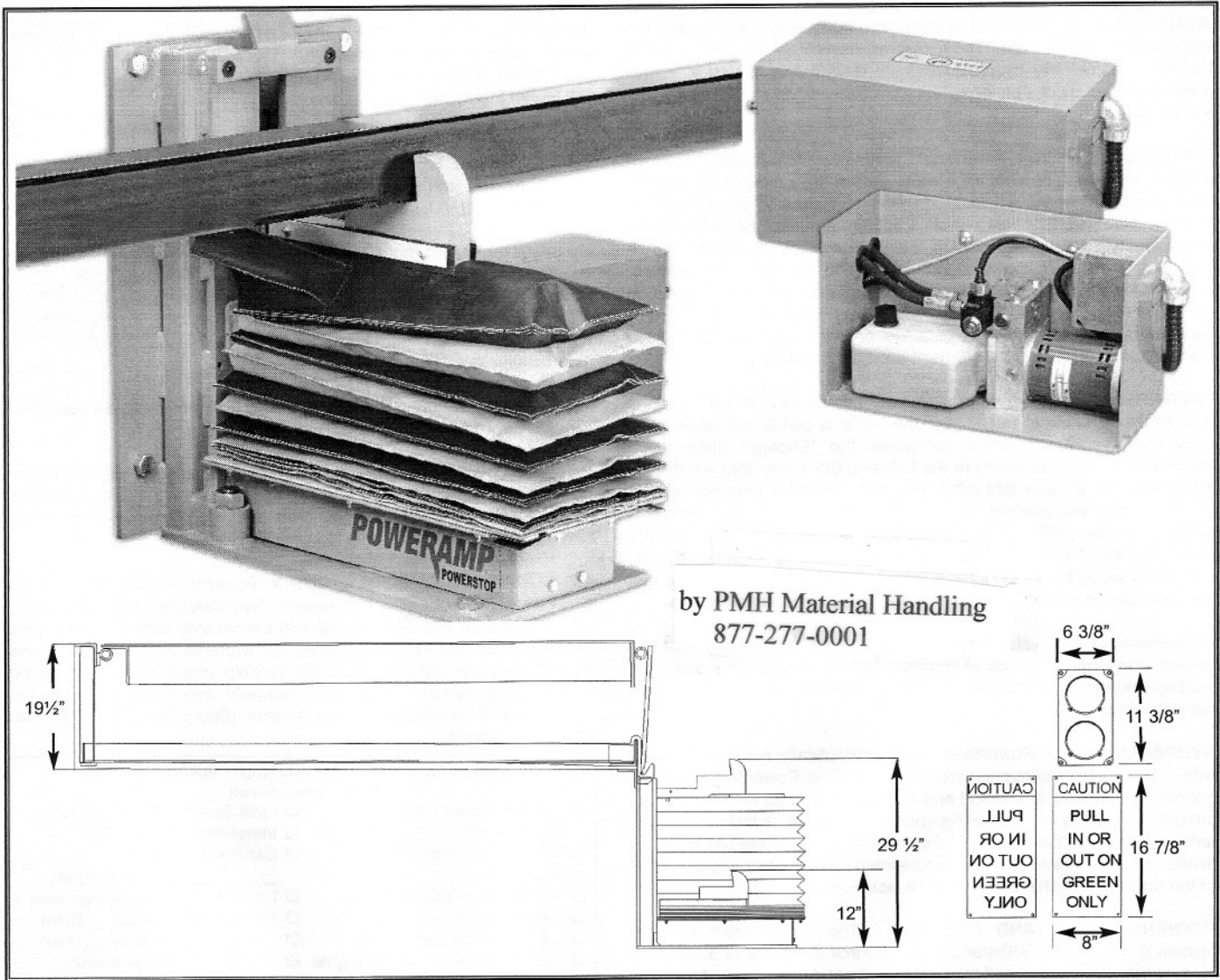


# Automatic PowerStop Vehicle Restraint Specification Sheet and Submittal



by PMH Material Handling  
 877-277-0001

## STANDARD FEATURES FOR THE POWERSTOP<sup>AA</sup> VEHICLE RESTRAINT

- Push Button Activation (115v Single Phase Operation)
- Automatic Light Sequence
- Low Profile, Non-impact Design (wall or driveway mount)
- Unique Dual Locking Restraint Arm To Minimize "Trailer Creep"
- Restraining Force In Excess of 30,000 lbs Average
- Remote Power Pack with Translucent Reservoir
- Designed to Accommodate Rear Impact Guard (RIG) Outlined in 1998 NHSTA Regulation
- Interlock Terminals
- Override Selector Switch
- Protective Debris Guard
- Powder Coated Restraint Housing
- 1 Year Parts & Labor Warranty



# Automatic PowerStop Vehicle Restraint Specification Sheet and Submittal

**GENERAL DESCRIPTION:** All Poweramp® PowerStop<sup>AA</sup> vehicle restraints are designed to secure a cargo trailer's rear impact guard (RIG) to reduce the likelihood of premature trailer separation during the loading/unloading process. The exclusive PowerStop<sup>AA</sup> vehicle restraint features a completely hydraulic restraint mechanism, hydraulic power package, inside control panel, exterior communication lights and instructional signs.

**CONSTRUCTION:** The PowerStop<sup>AA</sup> restraint system is designed to be a stationary mount, non-impact device, permanently mounted to loading dock foundation or drive approach. Restraint shall be preserved in a non-corrosive powder-coated finish. Restraint arm shall be protected by a bellow style cover to eliminate the accumulation of debris. Once activated, the PowerStop<sup>AA</sup> extends upward to the RIG. The uniquely designed dual locking restraint arm minimizes "trailer creep", securing the trailer with over 30,000 lbs. (average) of pull-out force. The fully automatic PowerStop<sup>AA</sup> is affordable and easy to install. It is ideal for all manufacturing, warehouse and distribution applications.

**OPERATION:** As a trailer backs into position, the exterior light is green and the interior light is red. Once the trailer is positioned against the dock bumpers, the operator depresses the "Engage" button. The PowerStop<sup>AA</sup> raises vertically to the RIG and the inside light will display green while the outside light will display red. The dock attendant should visually inspect and confirm that the restraint has engaged the horizontal member of the RIG. After the loading is complete, the operator depresses the "Release" button. When the trailer is released and the restraint is safely stored the interior light changes to red while the exterior light changes to green.

If "By-Pass" of the system is necessary, it is recommended that you secure the trailer by other means before proceeding with the loading/unloading process. In "By-Pass" mode the exterior light is red, the interior light is green.

**HYDRAULICS:** The PowerStop<sup>AA</sup> is a hydraulically actuated restraint with a DockAlert™ communication system. The PowerStop<sup>AA</sup> vehicle restraint raises vertically to find and maintain a hold on the RIG of truck throughout loading and unloading operations. The dual locking restraint arm will minimize "trailer creep". As an optional safety feature, the dock leveler and the vehicle restraint can be interlocked, preventing operation of the dock leveler until the restraint is activated.

**HOOKING RANGE AND CAPACITY:** The PowerStop<sup>AA</sup> restraint system is designed to withstand a pulling force in excess of 30,000 lbs. on average, giving an added margin of safety and protection. Maximum operational range is 10" horizontally from face of dock bumpers, and 12" minimum to 29.5" maximum vertically. Additional ranges are available for certain applications.

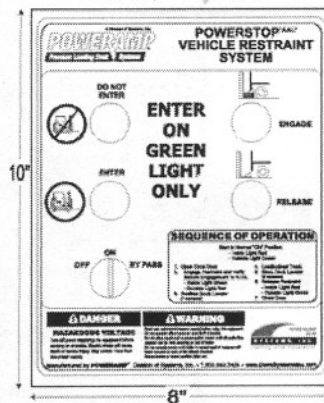
**EXTERIOR LIGHTS:** Low profile, traffic style, red, and green lights are standard for communication to truck driver. A set of caution signs warns truck driver to "Back In or Pull Out On Green Light Only".

**ELECTRICAL:** The PowerStop<sup>AA</sup> vehicle restraint is available as a stand alone unit or combined electrically and/or hydraulically with your dock leveler selection. Hydraulic pump and motor is 1/4 HP requiring 4.6 Amps at 115v single phase. Electrical control panel is NEMA 4/12 enclosure. All electrical control panel components, connections and wiring are UL listed/recognized.

**Please Note: Unless specifically noted on quotation, all electrical requirements are the responsibility of others.**

**INSTALLATION:** Requires mounting of locking unit, control panel, exterior lights and signs in strict accordance with Poweramp installation instructions. Mechanical installation is recommended to be performed only by authorized Poweramp Representative.

**WARRANTY:** All PowerStop<sup>AA</sup> vehicle restraints feature a full one (1) year base warranty on all structural, hydraulic and electrical parts, including freight and labor charges in accordance with Systems, Inc's Standard Warranty Policy. Systems, Inc. warrants all components to be free of defects in materials and workmanship, under normal use, during the warranty period. This base warranty period begins upon the completion of installation or the sixtieth (60th) day after shipment, whichever is earlier.

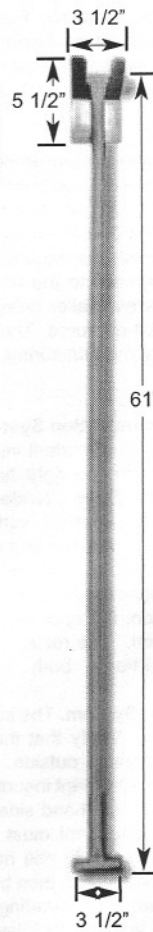
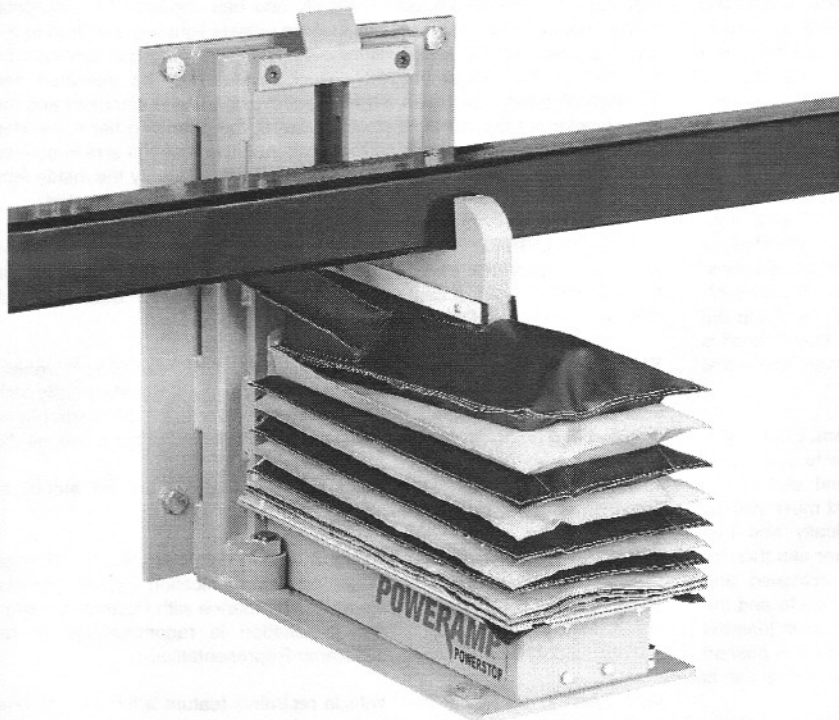
PowerStop<sup>AA</sup> Panel Shown

## Optional Equipment for PowerStop<sup>AA</sup> Vehicle Restraint

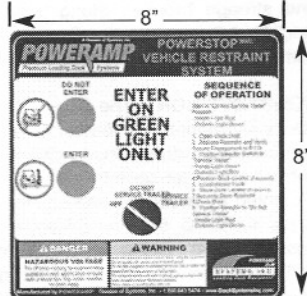
(Check options desired)

- |  |   |
|--|---|
| <input type="checkbox"/> Remote Power Pack<br>Hose Length _____  | <input type="checkbox"/> Limit Switches Door Interlocks         |
| <input type="checkbox"/> Combined Power Source<br>(VH & PR Only) | <input type="checkbox"/> Integrated Control Panel               |
| <input type="checkbox"/> Hydraulic Leveler Interlock             | <input type="checkbox"/> Cantilever Bracket<br>_____ Projection |
| <input type="checkbox"/> Automatic Restore                       | <input type="checkbox"/> Low Profile 10" (Single Stage Hook)    |
| <input type="checkbox"/> L.E.D. Internal Lights Only             | <input type="checkbox"/> Embed Plate ___ Wall ___ Drive         |
| <input type="checkbox"/> L.E.D. Interior & Exterior Lights       | <input type="checkbox"/> Anchor Pkg. ___ Wall ___ Drive         |
| <input type="checkbox"/> Special NEMA Control Type<br>_____      | <input type="checkbox"/> Key Lock Override Switch               |
| <input type="checkbox"/> Audible Alarm                           | <input type="checkbox"/> Other _____                            |
|  | <input type="checkbox"/> Other _____                            |
|  | <input type="checkbox"/> Other _____                            |

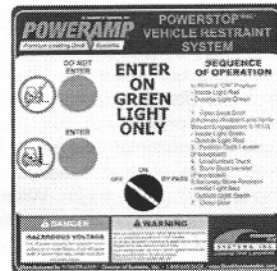
# Manual PowerStop Vehicle Restraint Specification Sheet and Submittal



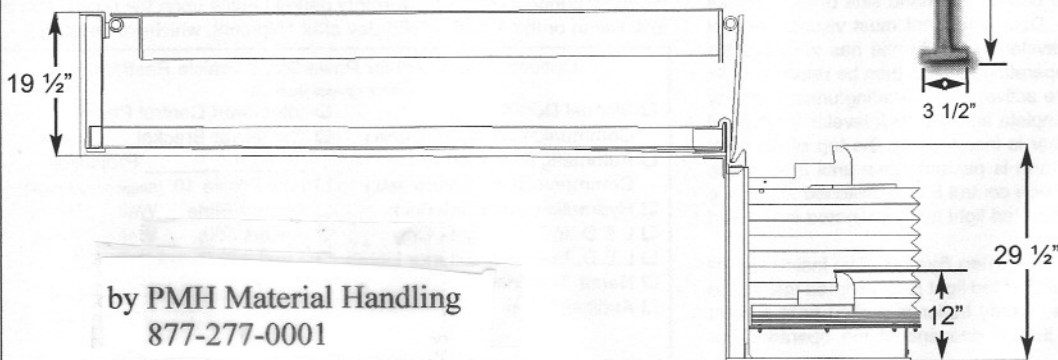
Control Panels and Lights are part of the optional DockAlert™ Communication System



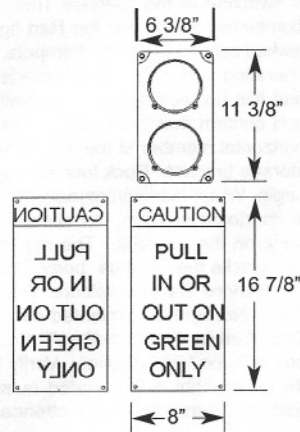
PowerStop™ Panel Shown Manual DockAlert™ Communication System



PowerStop™ Panel Shown Automatic DockAlert™ Communication System



by PMH Material Handling  
877-277-0001



## STANDARD FEATURES FOR THE MANUAL POWERSTOP VEHICLE RESTRAINT

- Low Profile, Non-impact Design (wall or driveway mount)
- Unique Dual Locking Restraint Arm To Minimize "Trailer Creep"
- Restraining Force In Excess of 30,000 lbs Average
- Protective Debris Guard
- Powder Coated Restraint Housing
- Designed to Accommodate Rear Impact Guard (RIG) Outlined in 1998 NHSTA Regulation
- 1 Year Parts & Labor Warranty



# Manual PowerStop Vehicle Restraint Specification Sheet and Submittal

**GENERAL DESCRIPTION:** All Poweramp® Manual PowerStop (PowerStop™) vehicle restraints are designed to secure a cargo trailer's rear impact guard (RIG) to reduce the likelihood of premature trailer separation during the loading/unloading process. The exclusive PowerStop vehicle restraint features a complete mechanical restraint mechanism, activation rod and storage bracket, along with communication signage. An optional DockAlert Communication System, including inside/control panel and exterior communication lights, is also available.

**CONSTRUCTION:** The PowerStop™ restraint system is designed to be a stationary mount, non-impact device, permanently mounted to loading dock foundation or drive approach. Restraint shall be preserved in a non-corrosive powder-coated finish with plated hardware. Restraint arm shall be protected by a bellows style cover to eliminate the accumulation of debris. Once activated, the PowerStop™ extends upward to the RIG. The uniquely designed dual locking restraint arm minimizes "trailer creep", securing the trailer with over 30,000 lbs. (average) of pull-out force. The PowerStop™ is affordable and easy to install. It is ideal for all manufacturing, warehouse and distribution applications.

**OPERATION: Without DockAlert™ Communication System.** Once trailer is parked tight against both bumpers, the dock attendant inserts one end of the operating bar under the release lever on the right hand side of the restraint and lifts up, activating the restraint. Dock attendant must visually inspect and confirm that the restraint has traveled vertically and has engaged the horizontal member of the RIG. The operating bar can then be returned to its storage bracket. Dock leveler may be activated and loading/unloading may begin. When loading/unloading is complete and the dock leveler is returned to its stored position, the operating bar is inserted into the top of the slide track on the restraint. The restraint arm is pushed down until the release lever locks the carriage body. Operating bar is returned to its storage bracket.

**With Manual DockAlert™ Communication System.** The inside control box is switched to the "Service Trailer" position. Verify that the Green light is illuminated inside and the Red light is illuminated outside. Verify trailer is parked tight against both bumpers. The dock attendant inserts one end of the operating bar under the release lever on the right hand side of the restraint and lifts up, activating the restraint. Dock attendant must visually inspect and confirm that the restraint has traveled vertically and has engaged the horizontal member of the RIG. The operating bar can then be returned to its storage bracket. Dock leveler may be activated and loading/unloading may begin. When loading/unloading is complete and the dock leveler is returned to its stored position, the operating bar is inserted into the top of the slide track on the restraint. The restraint arm is pushed down until the release lever locks the carriage body. The inside control box is switched to the "Do Not Service Trailer" position. Verify the Red light has illuminated inside and the Green light is illuminated outside.

**With Automatic DockAlert™ Communication System.** The inside control box is in the "ON" position. Verify that the Red light is illuminated inside and the green light is illuminated outside. Verify trailer is parked tight against both bumpers. The dock attendant inserts one end of the operating bar

under the release lever on the right hand side of the restraint and lifts up, activating the restraint. Dock attendant must visually inspect and confirm that the restraint has traveled vertically and has engaged the horizontal member of the RIG. Visually verify that the outside light has switched to red and the green light inside is illuminated. The operating bar can then be returned to its storage bracket. Dock leveler may be activated and loading/unloading may begin. When loading/unloading is complete and the dock leveler is returned to its stored position, the operating bar is inserted into the top of the slide track on the restraint. The restraint arm is pushed down until the release lever locks the carriage body. Verify the inside light has changed to Red. Operating bar is returned to its storage bracket.

**EXTERIOR LIGHTS:** Standard on PowerStop<sup>MML</sup> and PowerStop<sup>MAL</sup> restraint packages, low profile, traffic style, red, and green lights for communication to truck driver. A set of caution signs warns truck driver to "Back In or Pull Out On Green Light Only".

**ELECTRICAL:** The PowerStop<sup>M</sup>, PowerStop<sup>MML</sup>, and PowerStop<sup>MAL</sup> vehicle restraint are available as a stand alone unit or combined electrically with your dock leveler selection. Electrical requirements are 115v single phase installed in a NEMA 12 enclosure. All electrical control panel components, connections and wiring are UL listed/ recognized.

**Please Note: Unless specifically noted on quotation, all electrical requirements are the responsibility of others.**

**INSTALLATION:** Requires mounting of locking unit, operating bar storage bracket, and when including DockAlert Communication System, control panel, exterior lights and signs, in strict accordance with Poweramp installation instructions. Mechanical installation is recommended to be performed only by authorized Poweramp Representative.

**WARRANTY:** All PowerStop™ vehicle restraints feature a full one (1) year base warranty on all structural, hydraulic and electrical parts, including freight and labor charges in accordance with Systems, Inc's Standard Warranty Policy. Systems, Inc. warrants all components to be free of defects in materials and workmanship, under normal use, during the warranty period. This base warranty period begins upon the completion of installation or the sixtieth (60th) day after shipment, whichever is earlier.

## Optional Equipment for PowerStop™ Vehicle Restraint

(Check options desired)

- |   |  |
|---|--|
| <input type="checkbox"/> Manual DockAlert Communication System (MML)    | <input type="checkbox"/> Integrated Control Panel            |
| <input type="checkbox"/> Automatic DockAlert Communication System (MAL) | <input type="checkbox"/> Cantilever Bracket                  |
| <input type="checkbox"/> Hydraulic Leveler Interlock                    | <input type="checkbox"/> Projection                          |
| <input type="checkbox"/> L.E.D. Internal Lights Only                    | <input type="checkbox"/> Low Profile 10" (Single Stage Hook) |
| <input type="checkbox"/> L.E.D. Interior & Exterior Lights              | <input type="checkbox"/> Embed Plate ___Wall ___Drive        |
| <input type="checkbox"/> Nema 4x Control Panel                          | <input type="checkbox"/> Anchor Pkg. ___Wall ___Drive        |
| <input type="checkbox"/> Audible Alarm                                  | <input type="checkbox"/> Key Lock Override Switch            |
|   | <input type="checkbox"/> Other _____                         |
|   | <input type="checkbox"/> Other _____                         |