

Aldon® Severe Duty Cushioned Railroad Car Stops

Installation Instructions

4016-06



Aldon Company, Inc. | 3410 Sunset Avenue | Waukegan, Illinois 60087

PH. 847.623.8800 | FX. 847.623.6139
www.aldonco.com | e-rail@aldonco.com

Cautions and Warnings

Read all warnings and cautions on product and in this guide before installation. If you have questions regarding this product, contact Aldon Company, Inc.

A temporary or permanent car stop for use on indoor or outdoor industrial spur tracks which do not require a bumping post but need more stopping power than a conventional car stop can provide.

Cushion-Type Car Stops use the railroad tie as the principal means of anchoring to the rail.

- 1. Rail** – For use with typical North American freight t-rail sections. For use on rail size 80-141 lbs./yd. Consult Aldon Company, Inc. before using this stop on any other type of rail. Rails must be #1 relay grade or better.
- 2. Ties** – Rails must be fully spiked to sound wooden ties. Ties must be well-tamped and perpendicular to the rails, so that stops will be exactly aligned with each other.
- 3. Location** – Leave 3 to 4 ties' length of rail behind the car stops for added strength. Do not install these stops at the very end of any siding.
- 4. Stops are to be used in pairs.** Never attempt to use this product with only one stop in place or in conjunction with a different type or manufacturer of stop.
- 5. For use with standard size freight cars only.** For 1-3 cars. For longer consists, use a bumping post.
(Wheel Diameters 28"- 40" only)
- 6. Coast into stops.** Do not strike stops under power.
- 7. Maintain a painted finished** for good visibility and rust resistance.
- 8. Inspect stop and mounting clamp nuts** for adequate tightness at intervals.
- 9. Replace if damaged** or excessive wear is evident.

Recommended Tools for Installation

Ballast Shovel

4123-03



Track Bolt Ratchet Wrench (1" Sq.Dr.)

4123-112



1" Sq. Dr. x 2-3/8" 6pt. Hex Deep Socket

4124-258



Aldon® Replacement Parts

Bolt & Nut for Cushion Car Stops

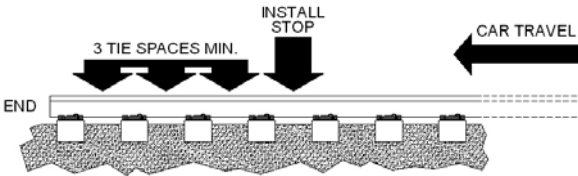
4016-04



Installation

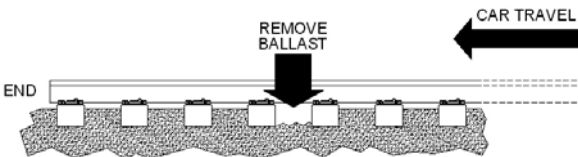
1. Determine Installation Position

Aldon® 4016-06 car stops should be installed a minimum of three tie spaces from the end of the track. Install the stops as far from the end of the track as practical for your application. The ties must be sound, properly spiked, tamped, and perpendicular to the rails. The rails must be free of cracks, fissures, or other obvious defects. **Do not install the stops where joint bars may interfere.**



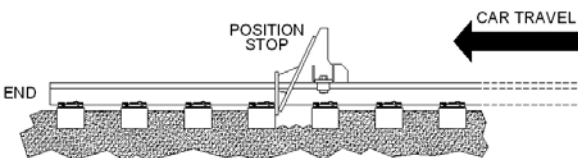
2. Remove Ballast

Remove 2-1/2 to 4-inches of ballast between the ties and the area around the rail for installation purposes.



3. Remove and Inspect Clamping Bolts

Remove and save the two clamping bolts that came with the stop. These bolts are to be installed after the stop is properly aligned on the rail. Inspect the bolts for any thread damage by running the nuts all the way down the threaded studs and back off again. The nuts should be free-riding and turn easily.



Installation

4. Position Stops

Always use the appropriate lifting device to transport and position each car stop.



Aldon® Two-Man Carrying Pole pictured (4024-54).



Arrow indicates the direction of rail traffic.

Position each stop on the rail facing the direction of railcar traffic. Slide the stop backwards until the butt of the stop is firmly seated against the face of the tie.

The rail head should be intimately seated against the bottom of the stop and inside of the U-shaped clamping bolt shields. Both stops must be installed against the same tie.

Installation

5. Install Clamping Bolts

Insert both clamping bolts from underneath on each side of the rail, with the beveled face towards the rail. Continue inserting each bolt up through the hole on the stop and install the nuts by hand to keep the bolts in place.



Note: On smaller rail it may be necessary to lift the front end of the stop to get the clamping bolts into position.

6. Tighten Nuts

Snug both nuts by hand while shaking the stop side-to-side. Then, use a 2-3/8" deep hex socket to tighten each nut. When tightening each nut, it's important to alternate from one nut to another to ensure even clamping force. Continue to lightly shake the stop as you apply torque. **Tighten each nut to 230 ft./lbs.** Install the other stop in the same manner.



Installation

7. Replace Ballast

- Replace ballast and firmly tamp.
- Be sure both stops are aligned to each other.
- Check bolt tightness periodically and after any impact.
- Bolts can be replaced.

Recommended Products

Blank Red Square Sign Plate

24"x 24" (Stop)



4115-44

Spear Point Sign Holder

(Sign Plate not Included)



4015-188

Two-Man Carrying Pole.



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