

INSTRUCTIONS

for installing

Non-Sliding Crane Stops



**Wheel
Contact Style
(4016-20)**

**Bumper
Contact Style
(4016-21)**



APPLICATION: Aldon's non-sliding crane stops are for temporary isolation of overhead cranes. Such isolation is necessary when one crane is undergoing maintenance with active cranes on the same runway or personnel are working on or near the crane runway.



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GENERAL CAUTIONS

- Use with overhead cranes traveling at normal operating speeds.
- Do not use with railroad cars or other vehicles.
- Use only on rail size indicated on wedge dog clamps.
- Use in pairs. Stops must be in perfect alignment so each stop is struck simultaneously.
- Wedge dog clamps must be tightly seated over wedge at all times.
- Do not use as end-of-track stops. Stops may slide short distances due to worn rail head conditions, dogs not fully seated, improper bolt tightness, etc. Adequate distance must be kept between cranes. The customer will determine the safe distance.
- Do not install stops where rail joint bars may be contacted.
- Wedge dog clamps may interfere with hook bolts (if applicable). It may be necessary to replace the hook bolts with rail clips.
- Crane operator must maintain control of crane at all times.
- If struck, check stop wedges and dog clamp assemblies for damage.



4016-20

Use only with wheel diameter marked on wheel-contact wedge.

4016-21

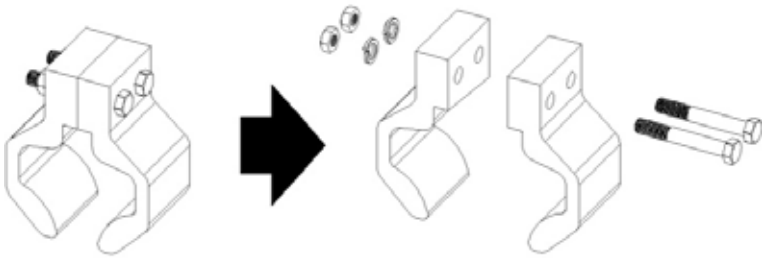
Centerline of bumper must be no higher than 12" from top of rail head.



INSTALLATION: Wheel Contact (4016-20)

To begin installation, locate a suitable location for the stops free of rail defects, weld seams, joint bars, or other objects that may cause interference if the stop were to slide.

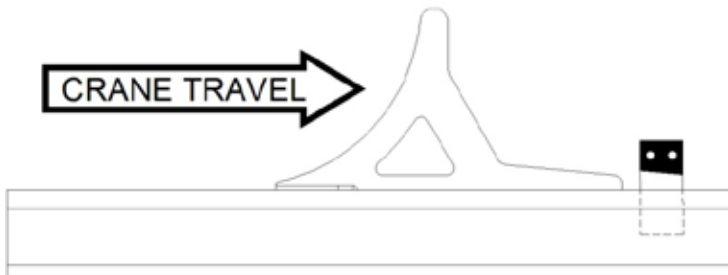
1. Remove hex nuts, lock washers, and cap screws from wedge dog and separate dog halves.



2. Place the dog halves over the rail head with the wedge inlet to the direction of the crane to be stopped. Reinstall the cap screws, lock washers, and hex nuts. Hand-tighten both hex nuts.



3. Place the wheel-contact wedge on the rail with the curved face towards the crane to be stopped.



4. Slide the wedge dog assembly as far over the tail of the wheel-contact wedge as possible. You may find it necessary to lightly shake the wheel-contact wedge in order to allow the dog to fully ride up the wedge.



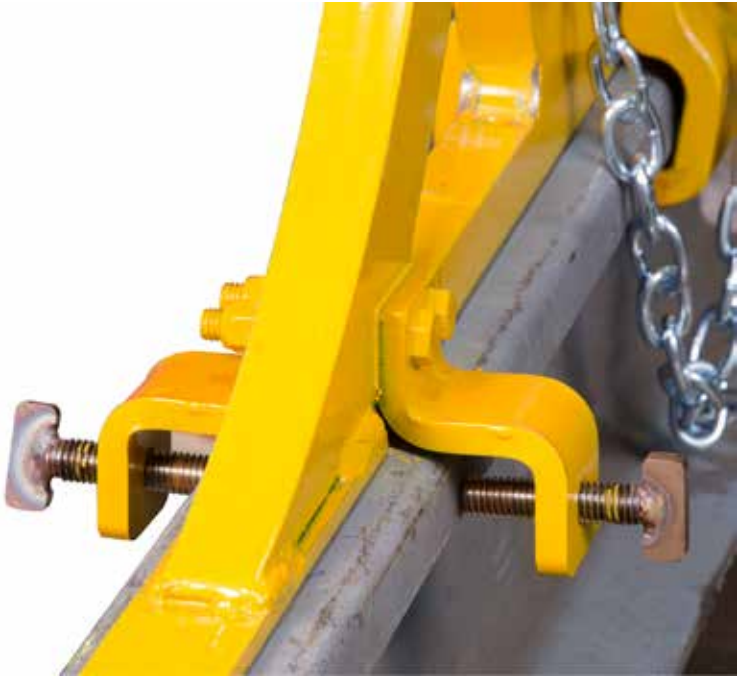
5. Wrench-tighten the hex nuts until the lock washers are flat. Then, tighten an additional 45°-90°. Be sure to apply torque to nuts, not the cap screw heads.



6. Using a soft faced hammer, drive the dog assembly onto the wheel-contact wedge by striking rear face of the dog.



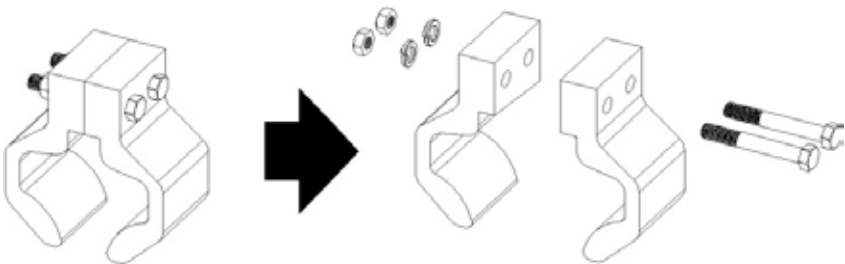
- Center the stop over the rail and hand tighten both thumbscrews against the side of the rail head.



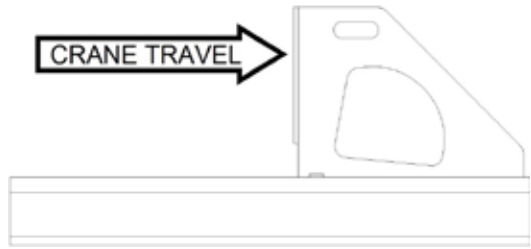
INSTALLATION: Bumper Contact (4016-21)

To begin installation, locate a suitable location for the stops free of rail defects, weld seams, joint bars, or other objects that may cause interference if the stop were to slide.

- Remove hex nuts, lock washers, and cap screws from wedge dog and separate dog halves.

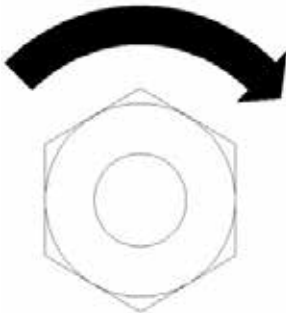


2. Place the bumper-contact wedge on the rail with the bumper plate in the direction of the crane to be stopped.

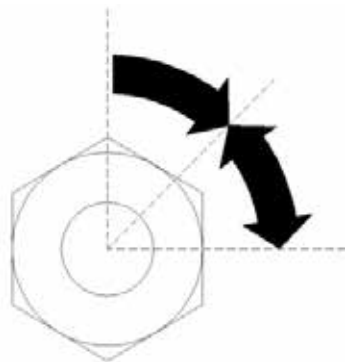


3. Place the dog halves over the bumper-contact wedge. Make sure the inclined plane of the dog assembly mates to the inclined plane on the bumper-contact wedge.
4. Slide the wedge dog assembly as far up the bumper-contact wedge as possible. You may find it necessary to lightly shake the bumper-contact wedge in order to allow the dog to fully ride up the inclined plane.

5. Install the cap screws, lock washers, and hex nuts. Fully hand-tighten the hex nuts.
6. Wrench tighten the hex nuts until the lock washers are flat. Then, tighten an additional 45°-90°. Be sure to apply torque to nuts, not the cap screw heads.



TIGHTEN UNTIL SPRING
LOCK WASHERS ARE FLAT

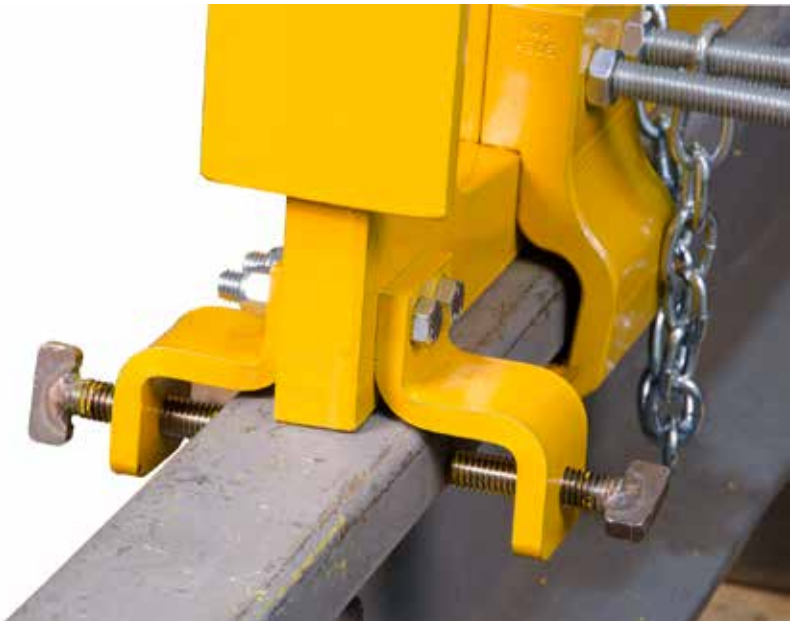


TIGHTEN ADDITIONAL
45°-90°

- Using a soft faced hammer drive the dog assembly up the bumper-contact wedge by striking the rear faces of the dog alternately. Continue until the dog is tightly seated over the bumper-contact wedge.



- Center the stop over the rail and hand tighten both thumbscrews against the side of the rail head.





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