



# Technical Bulletin

## E and F-Series Sideshifter Lower Hook Clearance and Nut Torque

Cascade has developed a new standard for sideshifter lower hook installation and inspection. It is critical that the lower hooks on all E and F-Series Sideshifters be adjusted and nuts tightened as described in this bulletin.

Under some circumstances when loads are handled that have an extended load center greater than 33 in. (840 mm) or long loads over 66 in. (1680 mm), the lower hooks may experience accelerated wear. Sideshifter applications using rug poles, long forks (60 in.+), fork extensions, booms etc. should be monitored closely.

If you are experiencing rapid lower hook wear, Cascade has developed a manganese bronze lower hook (part no. 226842) to solve these special applications. Contact Cascade's Service Department for advise and an application specific solution.

To improve safety and efficiency, take the following preventative steps:

- Immediately inspect the sideshifter lower hook wear condition. The minimum lower hook height and width dimensions is shown at right.
- Immediately make lower hook clearance adjustments and tighten the nuts to the proper torque value shown on the back of this bulletin.
- Daily inspect the lower hooks for wear.
- Check lower hook nut torque every 500 hours. Lube the lower bearing surface with chassis grease.

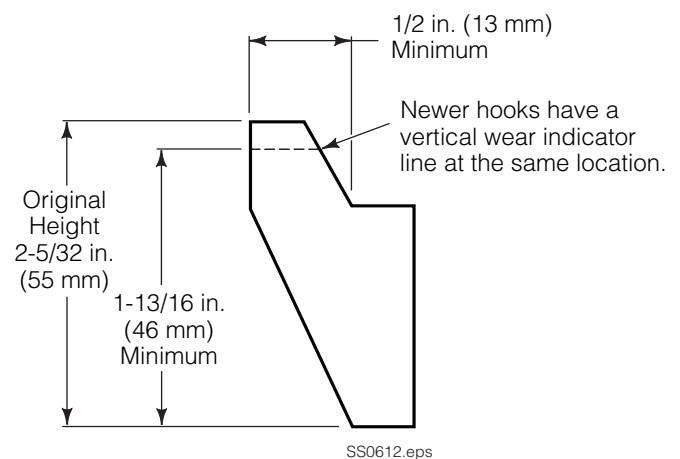
Please distribute this bulletin to all known Sideshifter users. If you have any questions about this information, contact Cascade at 1-800-227-2233.



**WARNING:** Improper lower hook clearance adjustment and torquing of the lower hook nuts may result in the sideshifter disengaging from the truck carriage possibly causing serious injury or property damage. Check lower hook clearance and wear daily. Check the nut torque every 500 hours.

**WARNING:** The final lower hook nut torque should be applied with a manual torque wrench or calibrated pneumatic wrench.

### Inspect lower hooks for wear



**NOTE:** This information should not be interpreted as the basis for warranty claims unless so designated.

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#### For Technical Support . . .

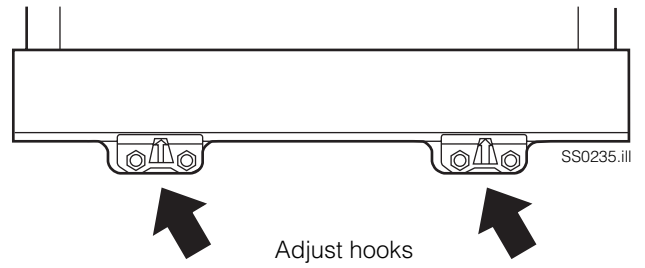
Call: 1-800-227-2233 Fax: 1-888-329-8207  
Internet: [www.cascorp.com](http://www.cascorp.com)  
Write: Cascade Corporation, PO Box 20187, Portland, OR 97294

#### To Order Parts . . .

Call: 1-888-227-2233 Fax: 1-888-329-0234  
Internet: [www.cascorp.com](http://www.cascorp.com)  
Write: Cascade Corporation, 2501 Sheridan Ave., Springfield, OH 45505

## Adjust and tighten lower hooks

- 1 Adjust the lower hooks up to the truck carriage bar. The clearance between the hook and truck carriage bar should be 1/32 in. minimum to 1/16 in. maximum.



- 2 Tighten the lower hook nuts to a torque of 120 ft.-lbs. with a manual torque wrench or calibrated pneumatic wrench.

