



Technical Bulletin

Periodic Maintenance for E-Series Push/Pulls Under Extreme Conditions

This sheet describes the periodic maintenance for E-Series Push/Pulls under extreme conditions like cement applications. Use this sheet in place of the periodic maintenance offered in the E-Series Push/Pull Installation and Service Manuals.

IMPORTANT: Manganese Bronze upper bearings, carrier slider bearings and faceplate bearing blocks must be used in extreme conditions.

CAUTION: Do not lubricate faceplate and frame vertical sliding blocks/rollers.

100-Hour Maintenance

Every time the lift truck is serviced or every 100 hours of truck operation, whichever comes first, complete the following maintenance on the attachment:

- Check for loose or missing bolts, worn or damaged hoses and hydraulic leaks.
- Check the clearance between the lower mounting hooks and the truck carriage bar:

Quick-Change Hooks – 3/16 in. (5 mm) maximum.

Bolt-on Hooks – Tight against lower carriage bar if non-sideshifting or 3/16 in. (5mm) maximum if sideshifting.

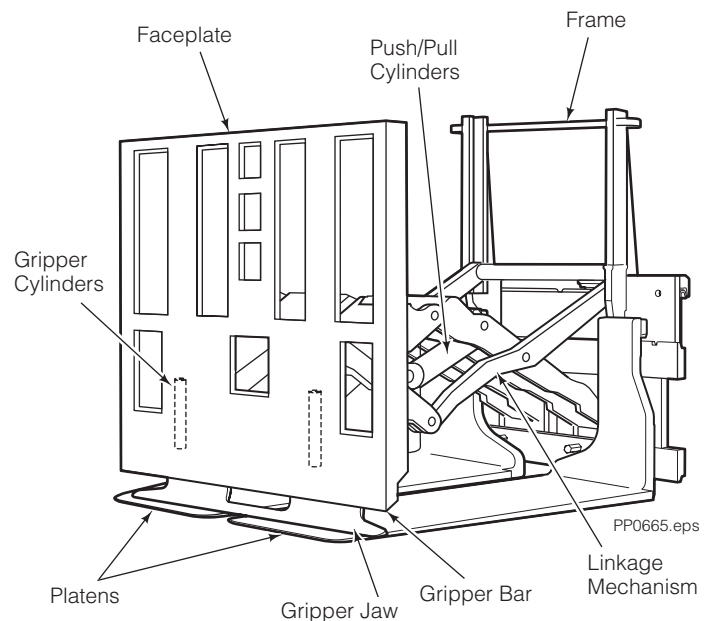
If hook adjustment is necessary, refer to next page.

- Tighten the lower hook mounting capscrews to 120 ft.-lbs. (165 Nm).
- Check for worn hoses. Nylon protection sleeves are available to prevent hoses from rubbing (Cascade part no. 6086044 and 6088062).



WARNING: Platen hook capscrews must be tightened regularly to prevent equipment damage or personnel injury.

- Tighten platen hook capscrews to 120 ft.-lbs. (165 Nm).



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-CASCADE (227-2233)

OR

Write: Cascade Corporation, PO Box 20187, Portland, OR 97294-0187

To Order Parts . . .

Call: 1-888-CASCADE (227-2233)

OR

Write: Cascade Corporation, 2501 Sheridan Ave., Springfield, OH 45505

500-Hour Maintenance

After each 500 hours of truck operation, in addition to the 100-hour maintenance, perform the following procedures.

- Inspect all mechanism pivot bushings and pins for excessive wear and replace as necessary. Refer to Service Manual 686455.
- Tighten the mechanism pivot pin retainer capscrews to the following torque values:

Enclosed Pin Retainers – 19-21 ft.-lbs. (26-28 Nm)

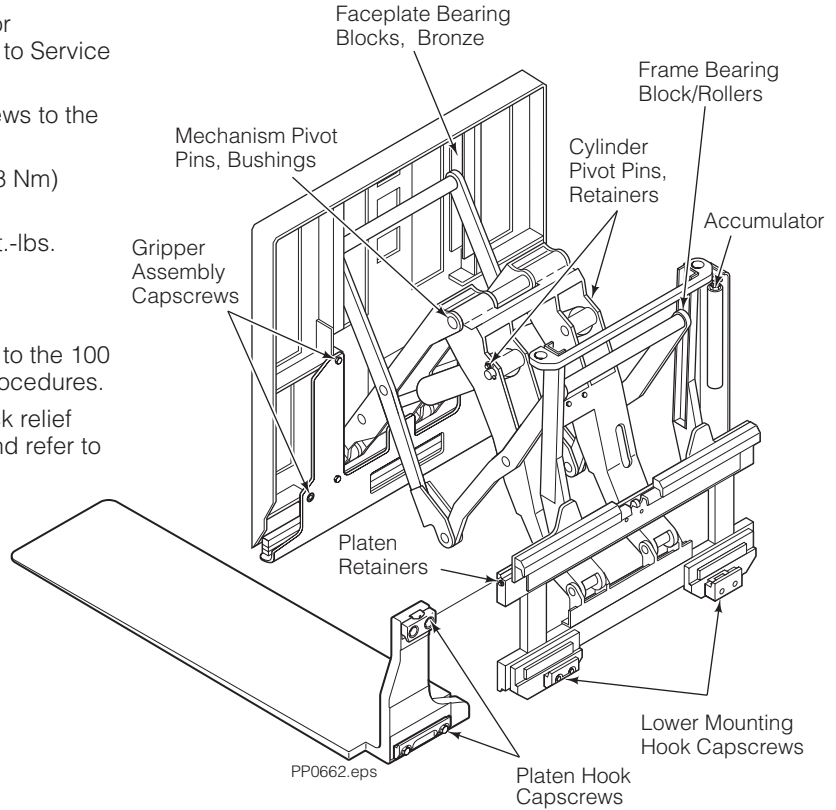
Eye Pin Retainers – 8-9 ft.-lbs. (11-13 Nm)

- Tighten the gripper assembly capscrews to 120 ft.-lbs. (165 Nm).

1000-Hour Maintenance

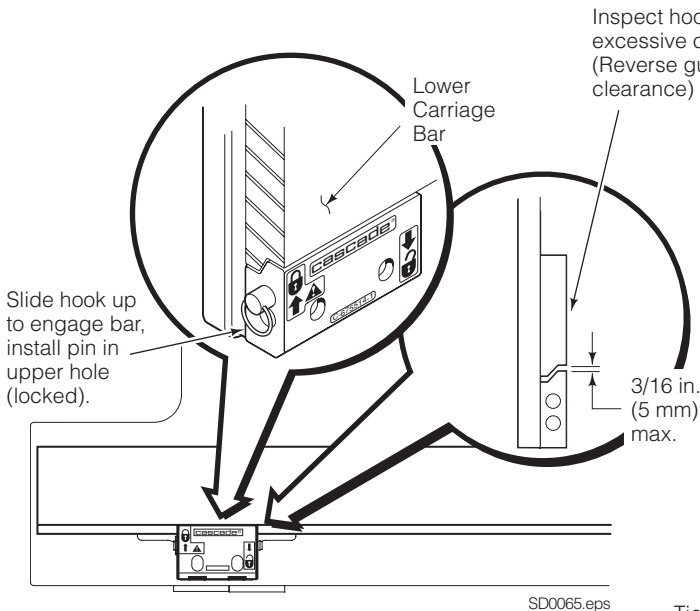
After each 1000 hours of truck operation, in addition to the 100 and 500-hour maintenance, perform the following procedures.

- Check accumulator pre-charge and adjust to truck relief pressure if required. Use Charging Kit 228235 and refer to Accumulator User Guide 227196 for procedures.



Lower Hook Installation and Adjustment

QUICK-CHANGE TYPE



BOLT-ON TYPE

