
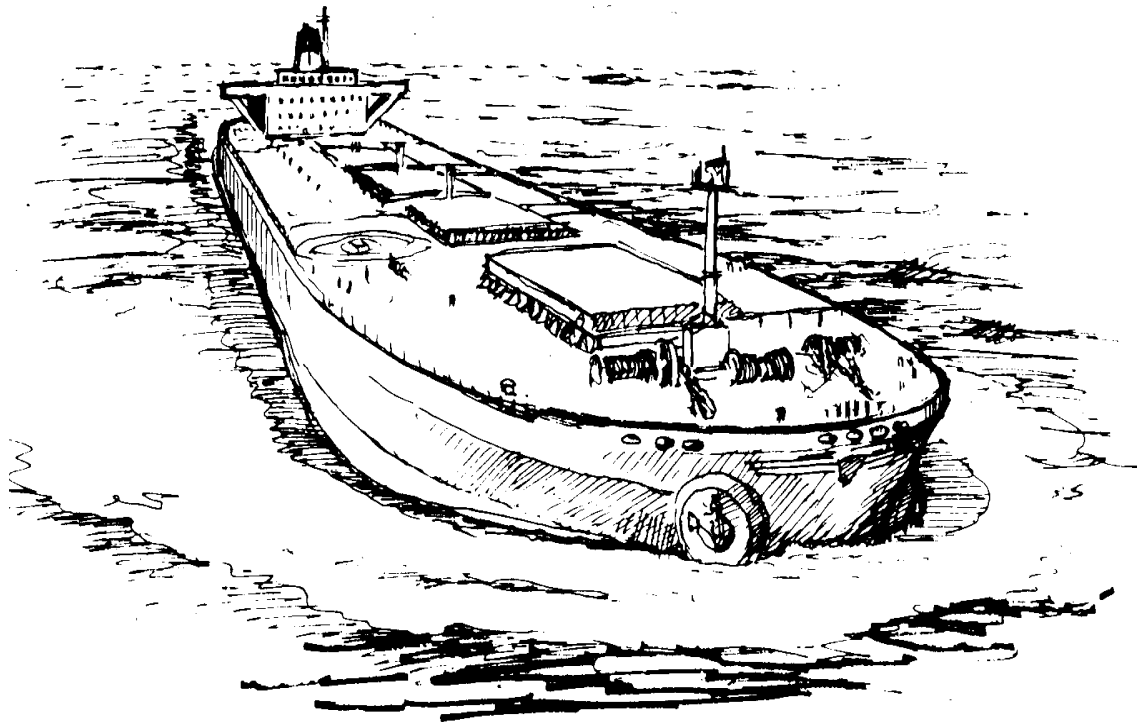



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Title:	Brake adjustment procedure Windlass Deck machinery		Rev No: 00 Rev Date: 02 Jun. 10	

SERVICE BULLETIN



Brake adjustment procedure Windlass Deck machinery



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Brake adjustment procedure Windlass.

Introduction:

In this document we will try to explain the importance of correct adjustment and maintenance of Windlass Band brakes.

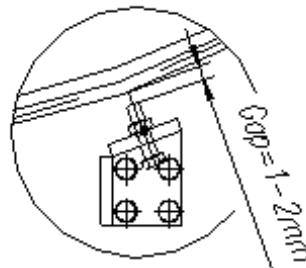
Safety:

Always keep chain stopper closed or anchor secured when doing this procedure.

Keep hands clear of moving parts.

General:


1. The brake lining thickness should never be less than 9mm.
2. Adjusting of the brake band support arm. Located under brake band.



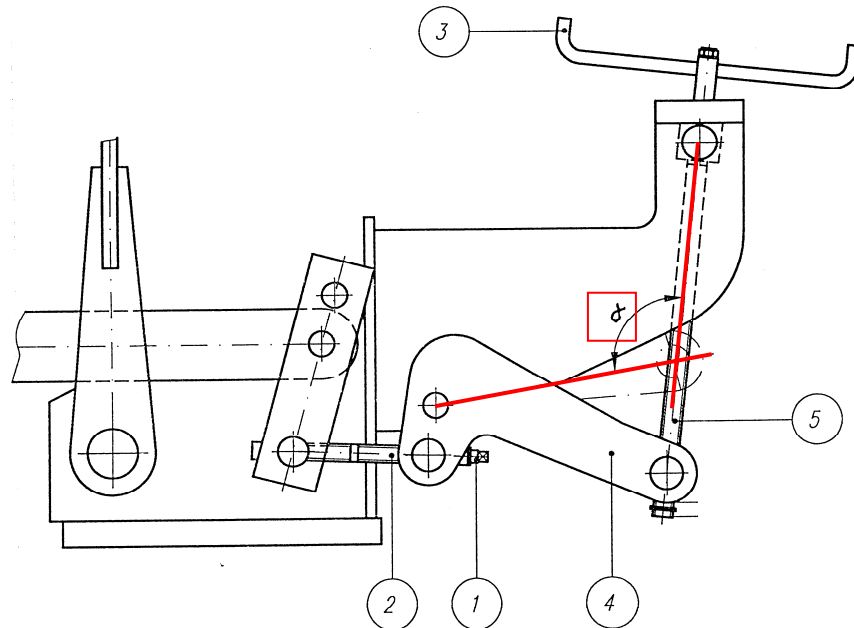
Brake Band Support

- a. Tighten Band brake to braking position.
- b. Loosen lock nuts and support screws.
- c. Tighten screws until they touch the band brake (clockwise).
- d. Turn the screws back one turn (counter clockwise).
- e. The clearance should now be 1-2mm, check.
- f. Test opening function of brake. The band brake should be free from drum surface all way round.

Note: Some screws have sharp edges on the end of threads. It is smart to round these edges off.


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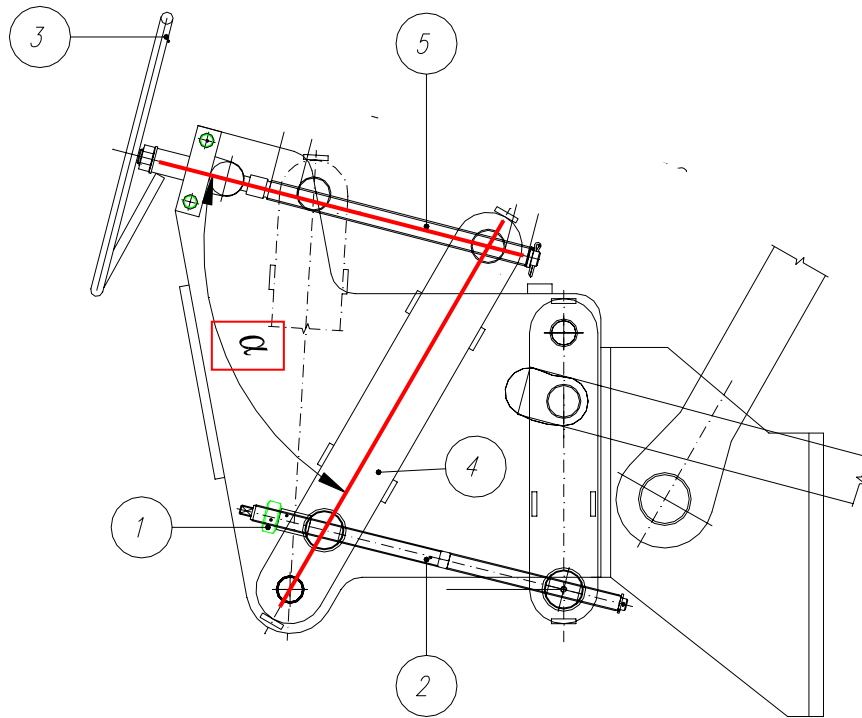
3. Check angle between brake screw and brake arm. When the angle α between the brake spindle **5** and the brake arm **4** exceeds 90° , **reduction of brake holding capacity** will start. Consequently it will be necessary to re-adjust the brake as described this document.



Manual band brakes G type:


1. Loosen locking nut 1 and turn simultaneously regulating screw 2 and handle 3 anticlockwise.
2. Then turn the handle 3 until the brake is fully set. Record angle between 5 & 4 to be less than 90° .
3. Check that the brake is fully released before the brake nut is approaching the spindle end.
4. Tighten locking nut 1.

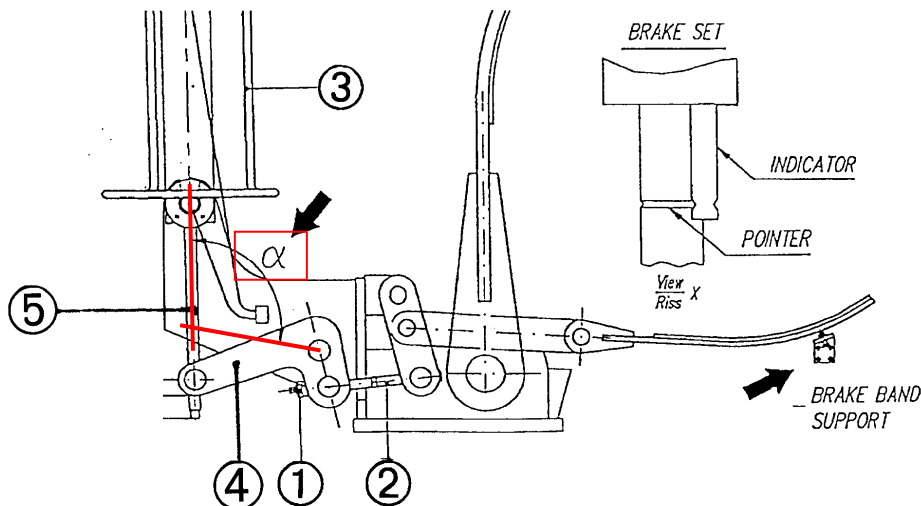
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Manual band brakes K type:

1. Loosen locking nut 1 and turn simultaneously regulating screw 2 and handle 3 anticlockwise.
2. Then turn the handle 3 until the brake is fully set. Record angle between 5 & 4 to be less than 90°.
3. Check that the brake is fully released before the brake nut is approaching the spindle end.
4. Tighten locking nut 1.

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Hydraulic operated band brake:

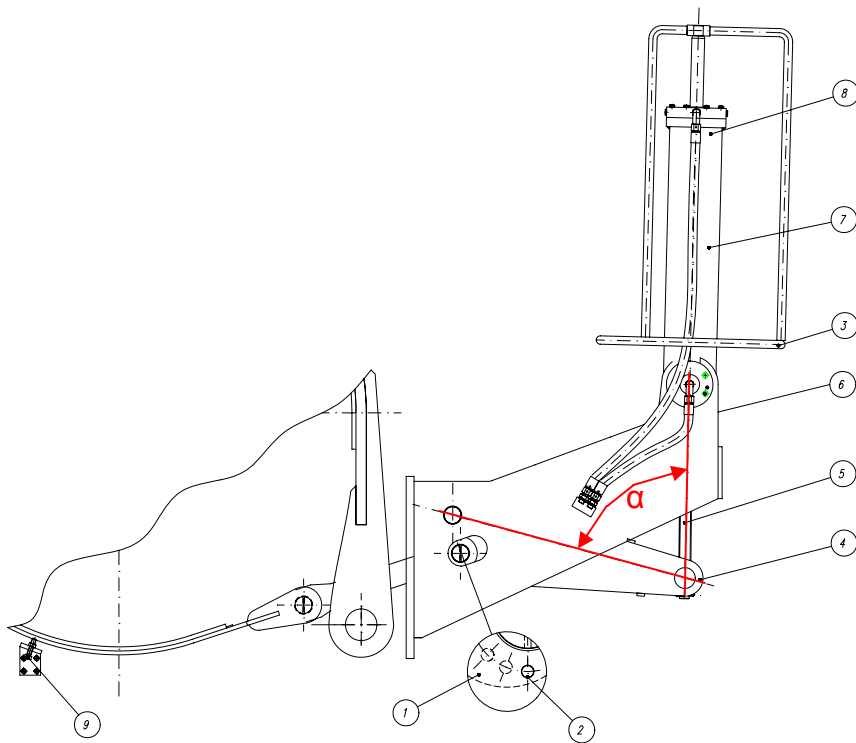


Note!

The tightening procedure is easier to do when the brake is operated (releasing) by means of hydraulic pressure.

1. Loosen nut 1 and turn simultaneously regulating screw 2 and handle 3 counter clockwise.
2. Let brake set in braking mode. Record angle between 5 & 4 to be less than 90°.
3. Check that pointer is flush with indentation in indicator. This tells you that the spring inside cylinder has correct pretension.
4. Operate the brake cylinder hydraulically and check that the brake is fully released.
5. Tighten locking nut 1.

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Hydraulic operated band brake with eccentric bolt adjustment:

1. Open brake with hydraulic pressure. Turn the Wheel pos 3 until brake is loose enough.
2. Remove lock-pin pos 2 and rotate (tight) eccentric pos 1 with a wrench (SKF HN23).
3. Find the nearest hole for the lock-bolt pos 2 and lock the eccentric.
4. Remove hydraulic pressure and the spring unit pos 7 will tighten the brake. Record angel α between 5 & 4 to be less than 90° .
5. Check that pointer is flush with indentation in indicator. This tells you that the spring inside cylinder has correct pretension.
6. Open the brake hydraulically and check that the lining lifts "free" of the brake drum.

Contacts:

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