

# Duff-Norton

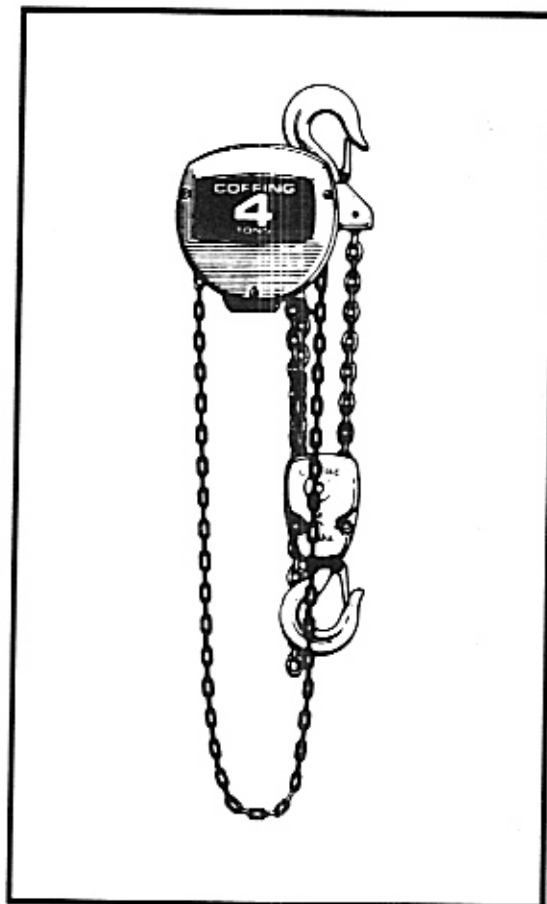
## ADJUSTMENT INSTRUCTIONS

WITH PARTS LISTS

PUBLICATION PART NO. CL-698-1

**COFFING®  
HOISTS**

### ALUMINUM HAND CHAIN HOISTS



**CAPACITY  
LIMITERS  
FOR  
CB SERIES**

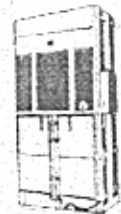
#### IMPORTANT — CAUTION

This manual contains important information for the correct installation, operation and maintenance of the equipment described herein. All persons involved in such installation, operation and maintenance should be thoroughly familiar with the contents. To safeguard against the possibility of personal injury or property damage, follow the recommendations and instructions of this manual and keep it for further reference.

#### WARNING

The equipment shown in this manual is intended for industrial use only and should not be used to lift, support, or otherwise transport people, or to suspend unattended loads over people.

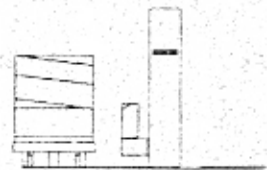
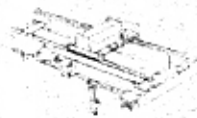
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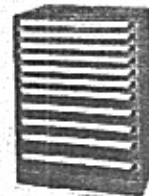
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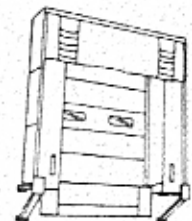
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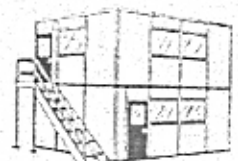
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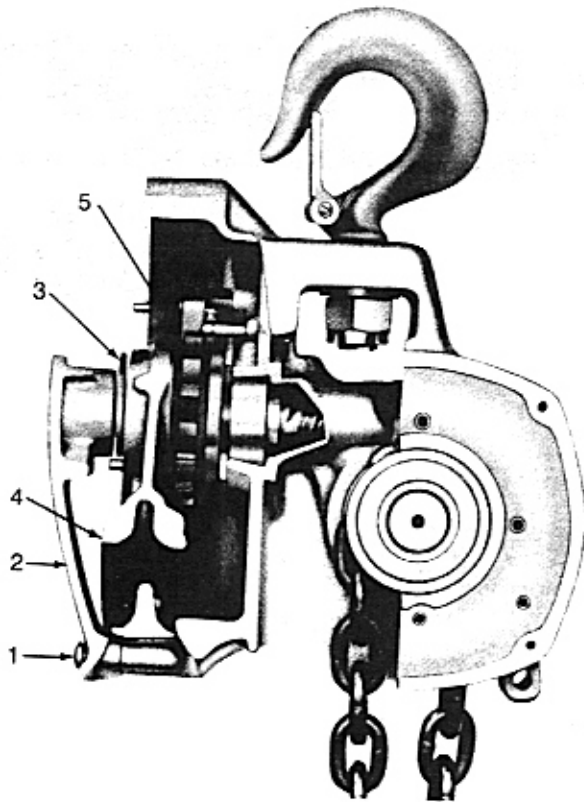


FIGURE 1

### REPLACING HAND CHAIN WHEEL WITH PREADJUSTED CAPACITY LIMITER

1. Remove three screws holding cover in place.
2. Remove Cover.
3. Remove Thread Stop from Spline on Pinion.
4. Unthread and remove hand chain wheel with hand chain in position.
5. Make sure brake disc is in position next to ratchet.

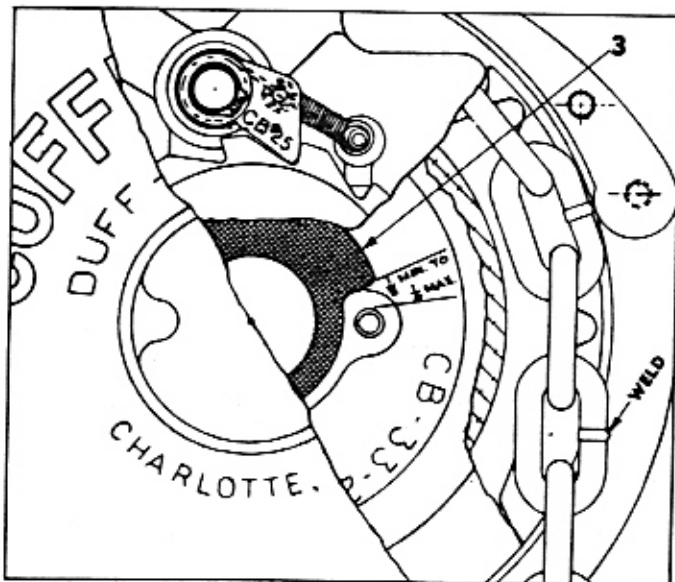
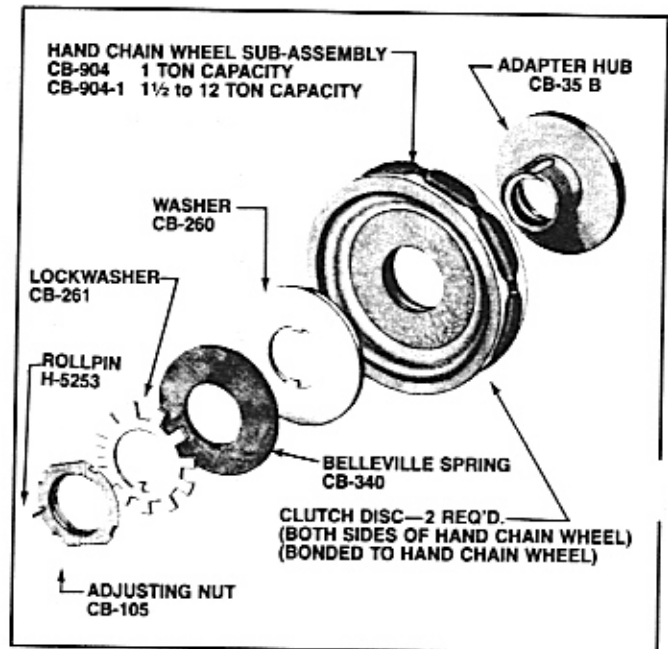


FIGURE 2

6. Thread "Capacity Limiter" assembly in place of standard hand chain wheel with hand chain in position with welds on chain facing out (See Fig. 2). Tighten it hand tight on brake disc.
7. Replace thread stop (3) on spline as shown in Fig.
8. Replace cover (2) in position.
9. Replace cover screws (1) with washers and tighten.



### REPAIR PARTS—CAPACITY LIMITER

| Part No. | Part Description                                      | Number Required |
|----------|---|-----------------|
| CB-35 B  | Adapter Hub   | 1               |
| CB-105   | Adjusting Nut   | 1               |
| CB-260   | Plain Washer  | 1               |
| CB-261   | Lock Washer   | 1               |
| CB-340   | Spring Washer   | 1               |
| CB-904   | Handwheel Sub Assembly<br>(Includes 2 Friction Discs) | 1               |
| CB-904-1 | Handwheel Sub Assembly<br>(Includes 2 Friction Discs) | 1               |
| H-5253   | Rollpin   | 1               |

## RECALIBRATION PROCEDURE

Whether it is purchased with the hoist or as a separate kit your "Capacity Limiter" has been factory calibrated to slip predetermined overload (approximately 150% of rated ..) If excessive slippage is noted when operating hoist at full rated capacity the "Capacity Limiter" can be recalibrated using the following procedure.

1. To check for excessive slippage remove handchain wheel cover and apply a pencil mark to the washer and to an adjacent point on the handchain wheel (See Figure 4).

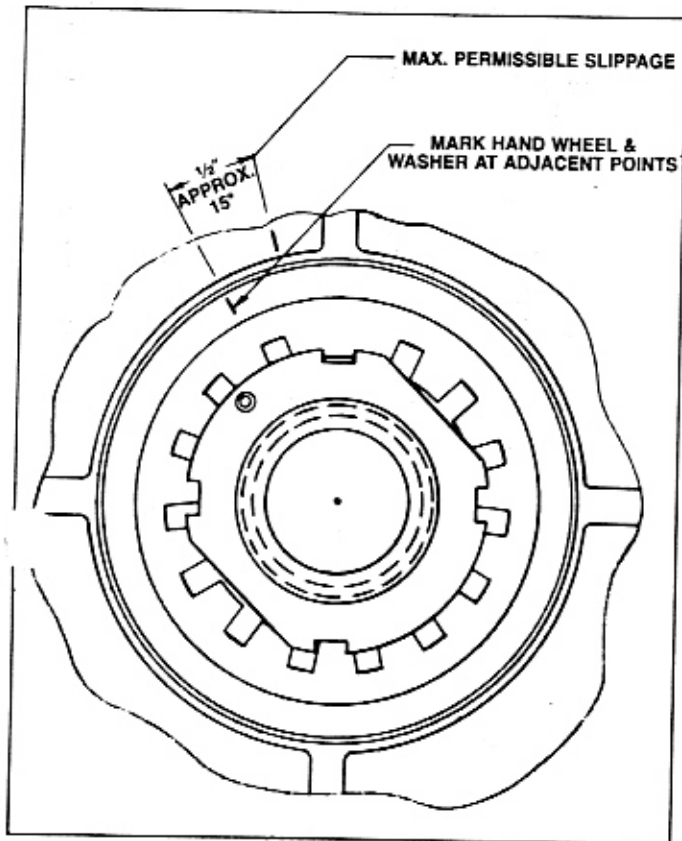


FIGURE 4

2. Replace thread stop and hand chain wheel cover and set hoist up to lift a load equal to its rated capacity.
3. After hooking to load apply 10 pulls of 2 to 3 ft. each to the hand chain in the hoisting direction. These pulls should be made with an even, steady motion. Avoid jerking effort on handchain.
4. After lowering the load remove the handchain wheel cover and observe the relationship of the pencil marks that were applied in Step 1.
5. If the displacement of the two marks exceeds 15° or 1/2" (See Figure 4) the slip torque should be increased by tightening the Adjusting Nut (Part No. CB-105) in clock-

wise direction so that the notch in the lock nut lines up with the next succeeding tang on the lock washer. Bend the tang into the adjusting nut notch to secure the nut.

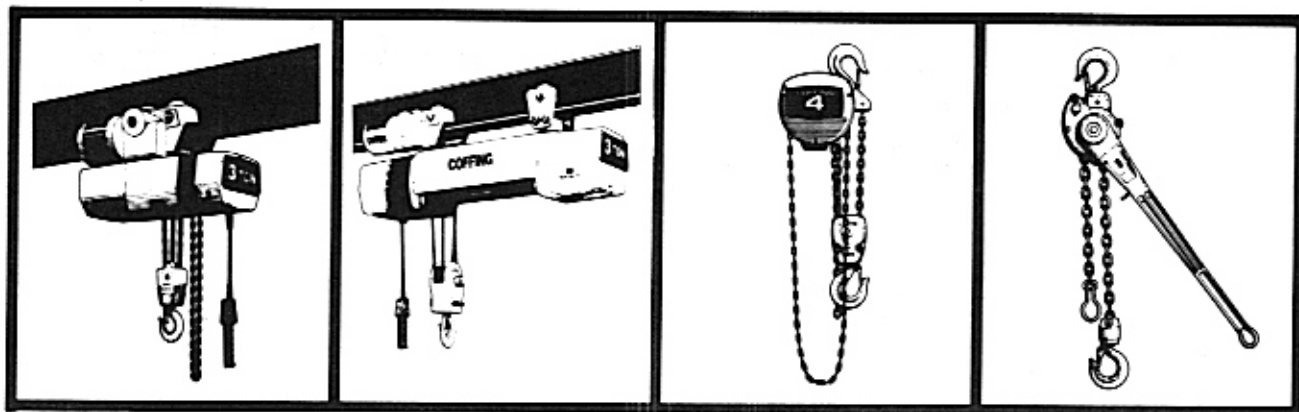
6. Repeat marking procedure as described in Step 1 above. Reassemble thread stop, hand chain wheel cover and retest unit as described above.
7. If slippage is still excessive repeat the above steps until slippage falls within recommended limit.

**CAUTION**—Do not disassemble the "Capacity Limiter" unit. If disassembled it is recommended that the unit be returned to the factory for inspection and recalibration. Please give hoist serial number (stamped on hoist housing) and hoist capacity when returning to factory.

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**WARNING:** The equipment shown in this manual is intended for industrial use only and should not be used to lift, support, or otherwise transport people, or to suspend unattended loads over people.

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