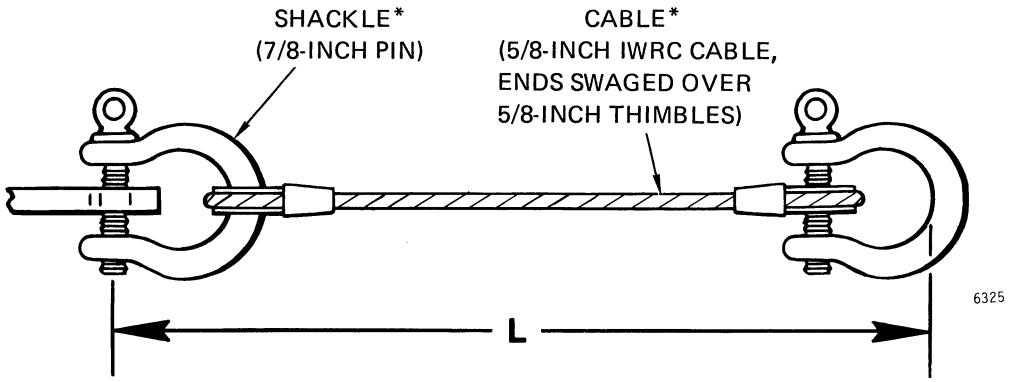
## TABLE 2. CABLE ASSEMBLY LENGTHS

**WARNING** Cables, shackles and chains must meet specifications.

| TRUCK | UPRIGHT** | ASSEMBLY LENGTH (L) |
|---|---|---|
| H150H, H165H,<br>H180H, H200HS | 180 In. (4572 mm)<br>210 In. (5334 mm) | 139.0 In. (3531 mm)<br>150.5 In. (3823 mm) |
| H200H, H225H<br>H250H, H275H | 180 In. (4572 mm)<br>210 In. (5334 mm)<br>240 In. (6096 mm) | 150.5 In. (3823 mm)<br>161.75 In. (4108 mm)<br>173.5 In. (4407 mm) |
| P150B, P200B | 180 In. (4572 mm)<br>210 In. (5334 mm)<br>240 In. (6096 mm) | 155.5 In. (3950 mm)<br>166.75 In. (4235 mm)<br>178.5 In. (4534 mm) |




*MINIMUM BREAKING
STRENGTH OF 17.9 TONS

** Special lift height uprights are not included in this Table. Contact the Special Products Engineering Department or your Hyster Dealer for cable lengths needed for these uprights.

Ensure the cable assembly is the proper length for the upright in use as specified in Table 2. Chains used to connect the cables to the upright should be 1/2-inch chain (minimum) and of sufficient length to allow a single, tight wrap on the inner upright top crossmember and connection of the shackle. Chains must be secured with the cable shackles - DO NOT use hooks to secure the chains

# CHECKS AND ADJUSTMENTS

## LIFT CHAINS (See Figure 7)

Correct adjustment of the lift chains is needed for the correct operation of the upright. The tension must be the same on both chains. The length of the chains must be within specifications. The chains must travel freely during the complete cycle. Check and adjust the chains as follows:

A. Put a load of near capacity on the forks. Tilt the upright completely backward. Lower the forks completely.

B. Check the amount of the carriage roller extending below the inner channel of the upright. No more than one third of the roller can extend below the upright. If the rollers are too low, adjust the chain anchors. Turn the nuts clockwise to raise the carriage. Make sure each anchor is adjusted the same amount.

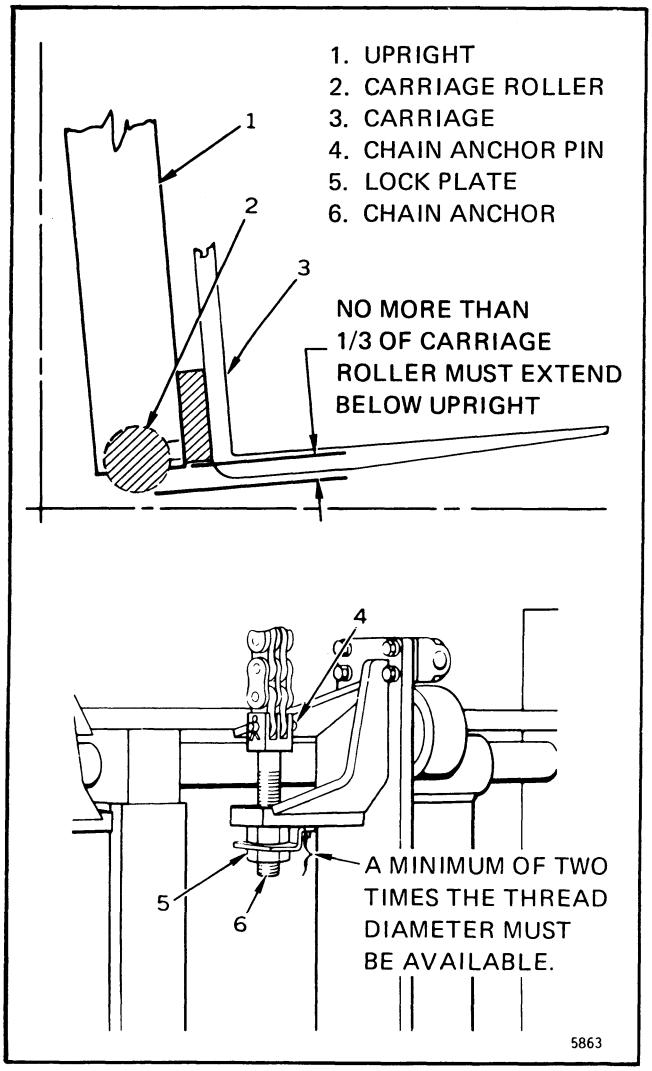



FIGURE 7. CHAIN ADJUSTMENT

**CAUTION**

**On the chain anchor, a minimum of two times the thread diameter below the nut must be available.**

C. Remove the load from the forks. Check the clearance of the carriage when the upright is fully extended. The carriage must not touch the top of the inner channel. The chains are too tight if the carriage touches the crossmember. Put the upright in a vertical position and lower the carriage completely. If the forks do not just touch the surface, the chains are too tight. If the chains are too tight, adjust the chain anchors. Turn the nuts counterclockwise to loosen the chains. Make sure each anchor is adjusted the same amount.

## ROLLERS (See Figure 8)

**NOTE**

**The load rollers are not adjustable.**

**The side and back rollers must just touch the surface at the tightest position.**

## CHECKING AND ADJUSTING THE SIDE ROLLERS

A. Lower the lifting cylinder completely.

B. Using a crowbar, move the carriage to one side as far as possible. Check the clearance between the highest surface of side roller and the inside of the inner channel. Using the same procedure, check the clearance between the inner channel and the outer channels.

Raise the carriage half-way. Repeat the checks again.

C. Adjust the shims so the rollers just touch the surface at the tightest position. If needed to get correct alignment, cut the shims in half.