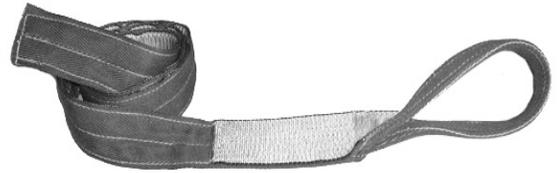


DRAWBAR *LOAD-TUGGER* OPERATING INSTRUCTIONS



Primary Strap and Ratchet



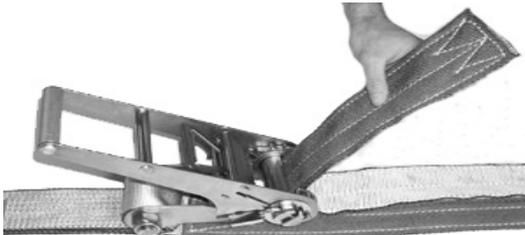
Secondary Strap

Typical *LOAD-TUGGER* Uses

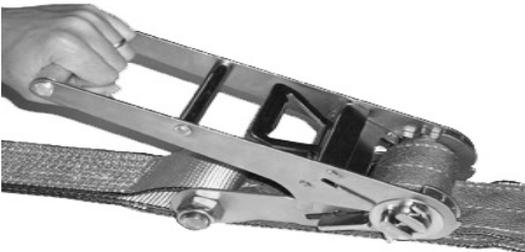
1. Towing of Railcar with bad Drawbar
2. Removal of bad Drawbars
3. Alignment of Drawbars

RATCHET OPERATION

To Tighten



- a. Thread loose end of strap through slot in ratchet mandrel.
- b. Pull loose end to take up slack.

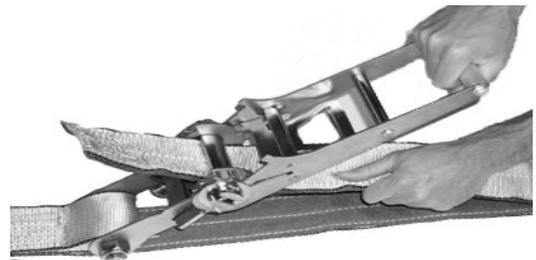


- c. Pump handle to wrap webbing onto mandrel (there should be a minimum of two (2) wraps around mandrel after tensioning).
- d. Close handle to lock in place.

To Release



- a. Pull back on handle while squeezing handle latch.



- b. Rotating to about 180° will release ratchet mechanism.
- c. Loose end of strap can be pulled from mandrel.

How to Attach Straps

1. The connection of straps can be done using a choker hitch.
2. Be sure to protect strap from sharp or rough edges by using pads.
3. Thread eye of strap through opening of fixture.
4. Pass ratchet and strap through eye and tighten.

TOWING

(uses Primary Strap only)

1. Do not attempt to tow more than one car at a time.
2. Choke eye end of Primary Strap around neck of drawbar on towing car.
3. Thread loose end of strap through carrier iron or crosskey slot on disabled car.
4. Thread loose end of strap through mandrel slot on the ratchet and pull through to take up slack.
5. Operate ratchet to get at least 2 wraps of webbing around mandrel.

Removal of Bad Drawbar

(uses both Primary Strap
and Secondary Strap)

1. Choke Secondary Strap around neck of drawbar.
2. Choke Primary Strap to facing car ladder at a comfortable operating height.
3. Thread free end of Secondary Strap through ratchet mandrel and pull to take up slack.
4. Stand clear from path of falling drawbar.
5. Operate ratchet to remove drawbar.

ALIGNING DRAWBAR

(uses both Primary Strap
and Secondary Strap)

1. Slip eye of Primary Strap over drawbar knuckle to move drawbar to the left, or over coupler body to move drawbar to the right.
2. Choke Secondary Strap around side of car anchor point on the side toward which the drawbar is to be moved.
3. Thread Secondary Strap end through ratchet mandrel and pull to take up slack.
4. Operate ratchet to align drawbar.



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