

POLE TRAILERS

EQUIPMENT

Contents	Page
1. General	1
2. Safety Precautions	1
3. Load Binders	2
4. King Pole Binders	7
5. Drawbars	12

1. GENERAL

1.01 This section covers the equipment associated with pole trailers, such as king pole binders, load binders and drawbars.

1.02 The sections on Pole Trailers—General and Pole Trailers—Loading and Binding shall be considered to be supplementary instructions.

1.03 This section supersedes the parts of Section J6.621 covering pole trailer equipment.

2. SAFETY PRECAUTIONS

2.01 Before starting to use any of the equipment described in this section, inspect them to see that they operate properly and have no visible signs of damage.

2.02 Some of this equipment is heavy and should be handled with care to avoid personal injury or damage to the mechanism.

2.03 Be sure that the calks on the drawbars are seated into the pole.

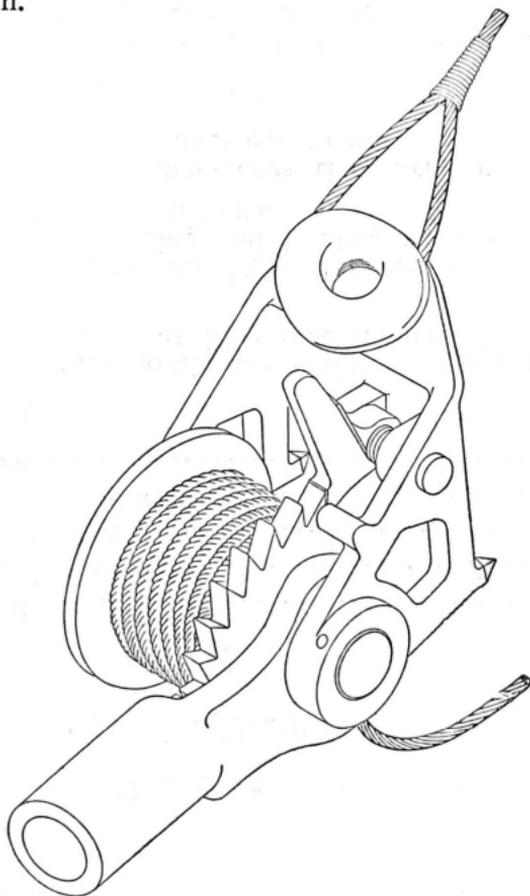
2.04 Be sure that the chains on the drawbars and the king pole binders are seated properly in their hooks before tightening.

2.05 Properly tighten the bolts on the C or CB drawbar which hold the drawbar to the pole before towing the trailer.

3. LOAD BINDERS

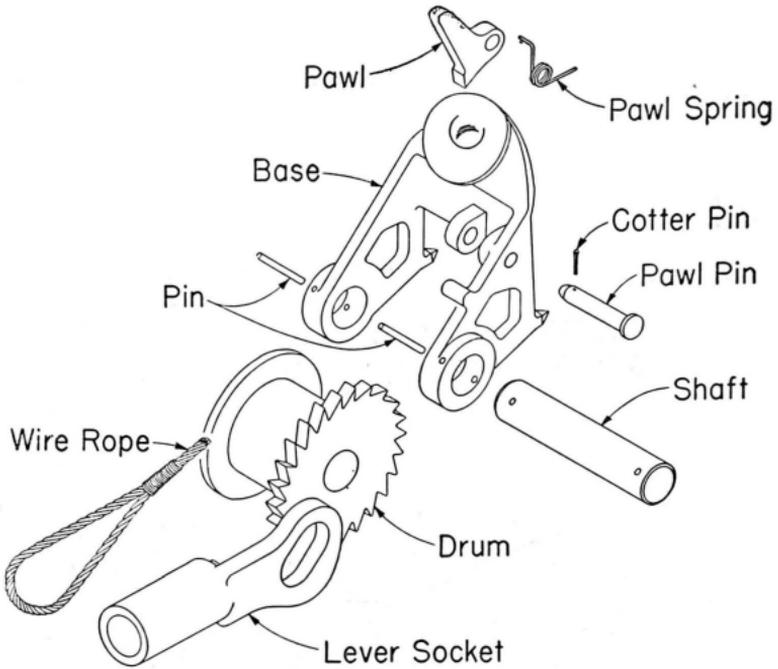
3.01 Load binders are used to bind a load of poles on a pole trailer. At the rear of the pole trailer a load binding winch is permanently attached which is used to secure the load to the trailer. At the front of the load the poles are bound with a portable pole binder. The portable pole binder may be used to bind the poles when a load binding winch is not supplied.

3.02 The portable pole binder is used to secure poles by means of a wire rope sling which is attached to a ratchet controlled winch and has an eye in the free end. The sling is passed around the pole load and the eye is placed over the rope knob on the binder. The load is then bound by means of the winch.



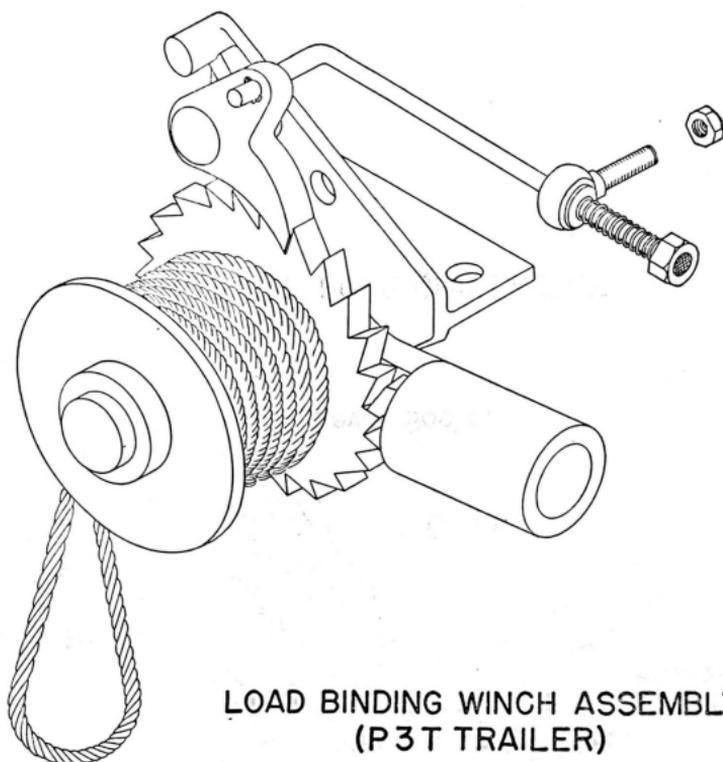
PORTABLE POLE BINDER
ASSEMBLY

3.03 The names of the various parts of the portable pole binder are shown in the following illustration.

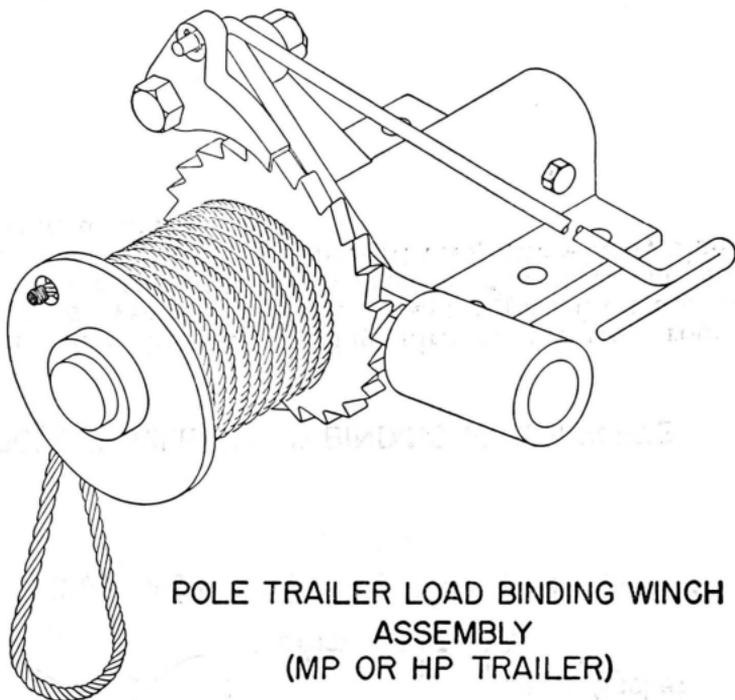


PORTABLE POLE BINDER PARTS

3.04 The load binding winches are made in three sizes, the smallest is used on the P3T, the medium sized on the P8T and the large ones on the MP and HP Trailers. The parts and operation are similar. These winches are permanently attached to the rear bolsters and are used to bind the pole load.

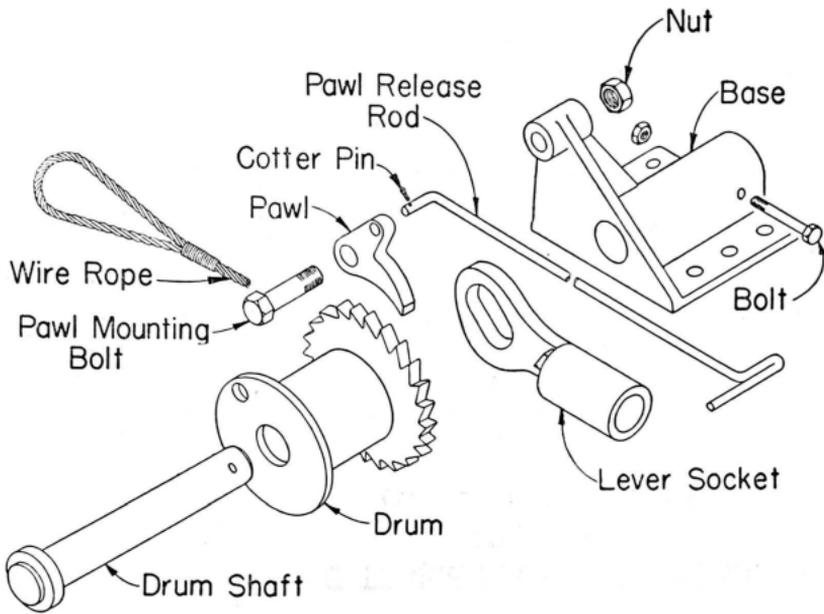


**LOAD BINDING WINCH ASSEMBLY
(P3T TRAILER)**



POLE TRAILER LOAD BINDING WINCH
ASSEMBLY
(MP OR HP TRAILER)

3.05 The parts of the load binding winches are shown in the following illustration. The parts for all of these winches are the same in name and form, but differ in size depending on the type of pole trailer it is used on.



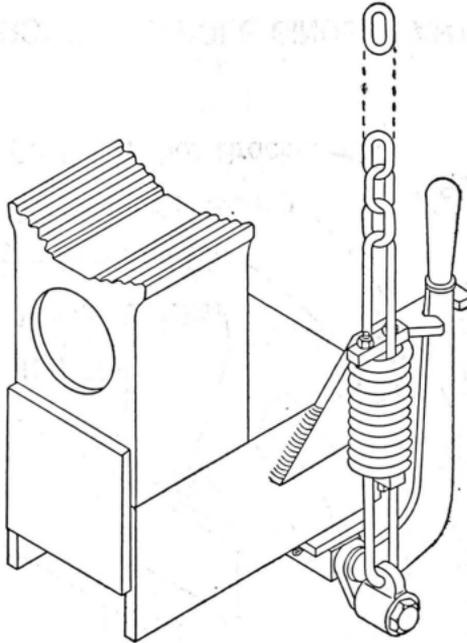
POLE TRAILER LOAD BINDING WINCH PARTS

3.06 In using the load binding winches the wire rope is passed over the load and the eye is placed on the rope knob which is attached to the bolster on the other side from the winch. Then the rope is tightened using the winch; binding the pole load to the bolster.

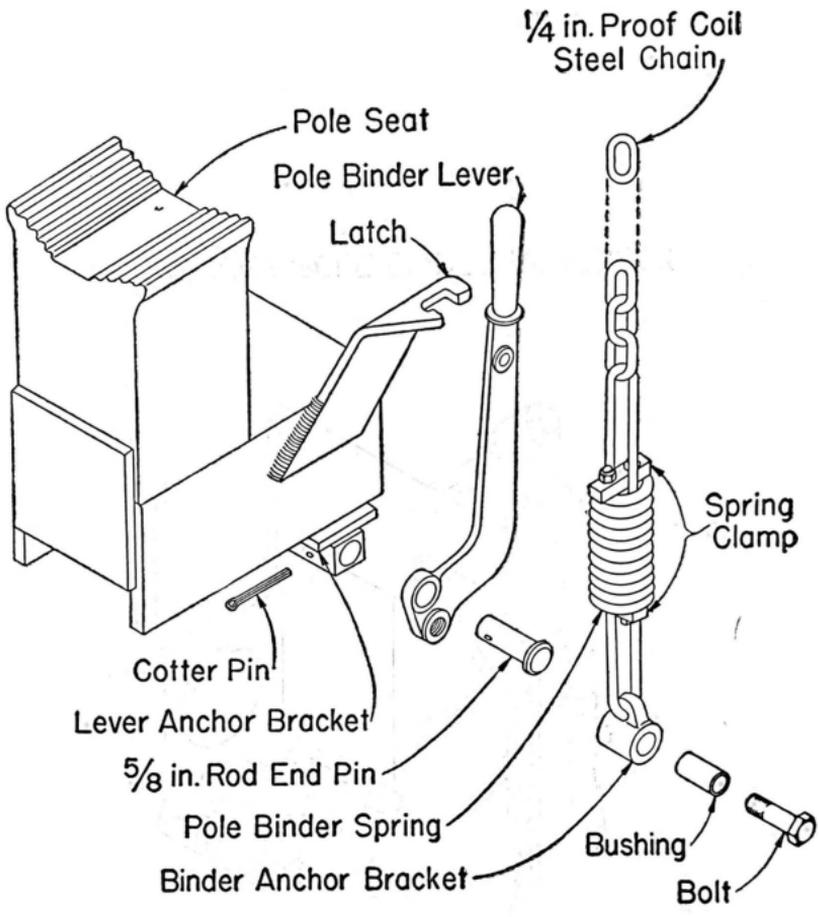
4. KING POLE BINDERS

4.01 King pole binders are supplied on the P3T and P8T Trailers. They are supplied at the front and rear for binding the king pole. Each is a chain type binder.

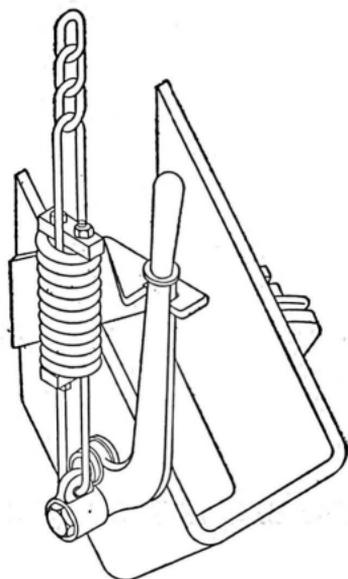
4.02 The king pole binders as used on the P3T Trailer are shown in the following figures, the same principles apply to king pole binders supplied on the P8T Trailer. The binders are permanently fastened to the trailers.



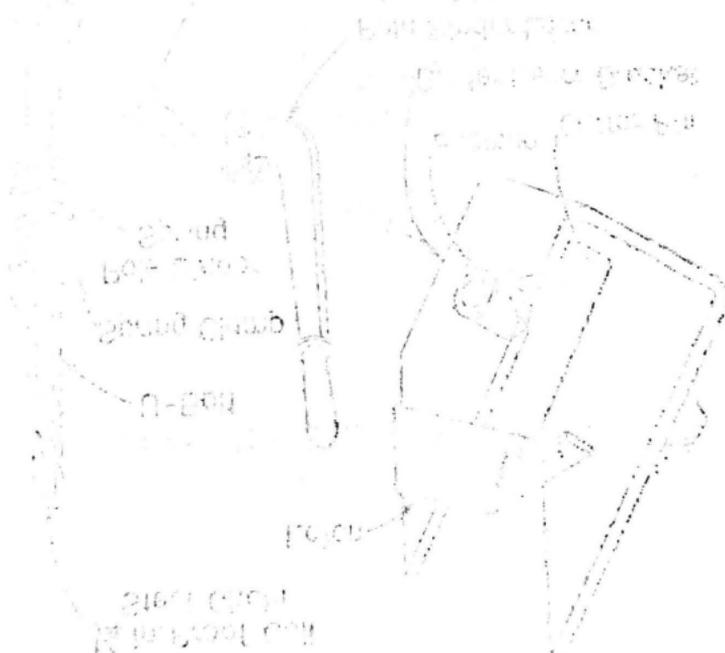
FRONT KING POLE BINDER ASSEMBLY

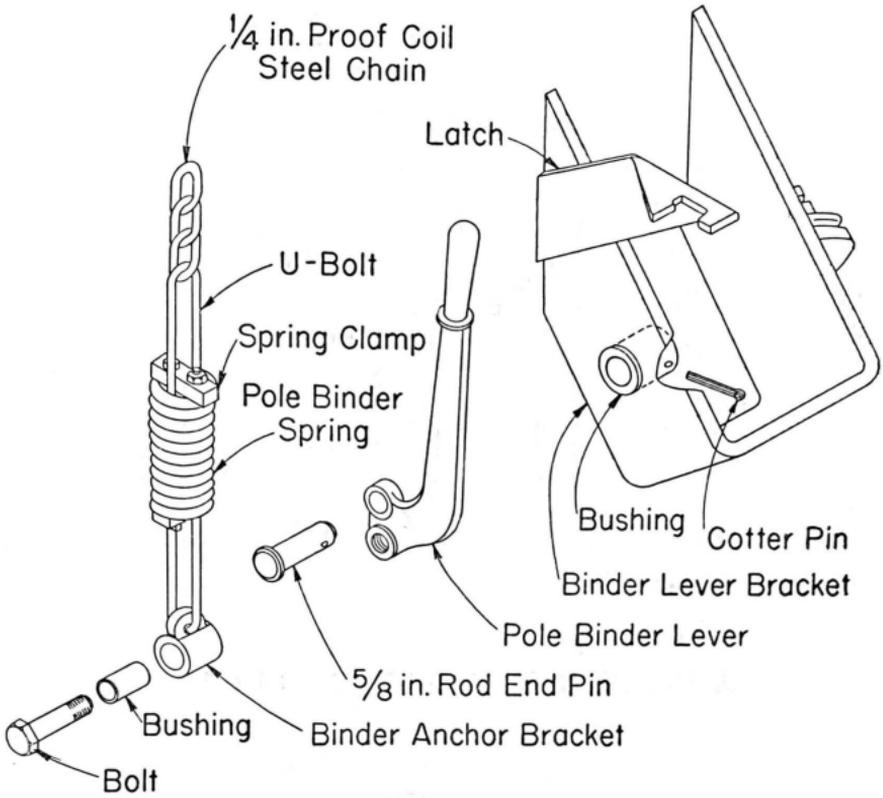


FRONT KING POLE BINDER PARTS



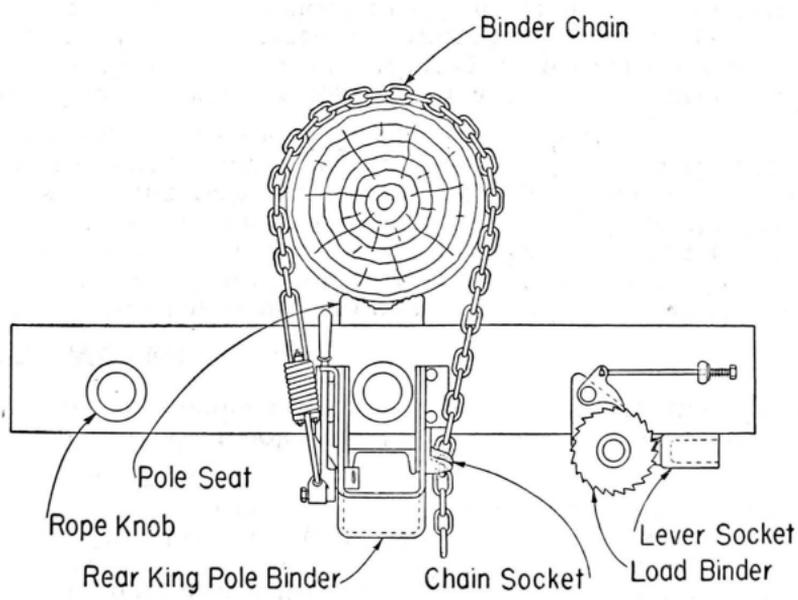
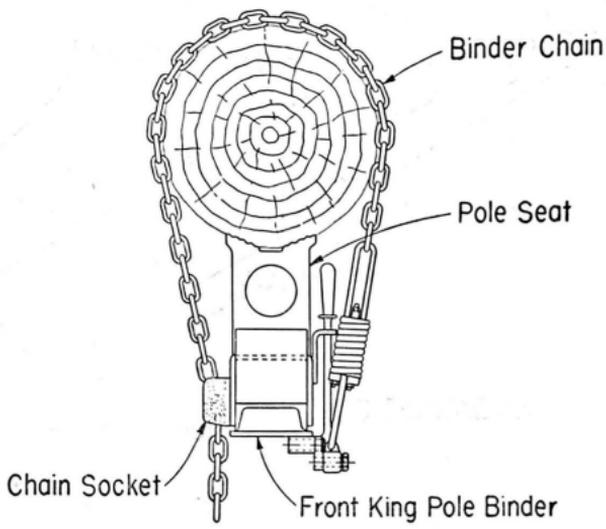
REAR KING POLE BINDER ASSEMBLY





REAR KING POLE BINDER PARTS

4.03 The king pole must be bound to the trailer securely by the king pole binder. The following figures show a pole bound to a P3T Trailer using king pole binders.



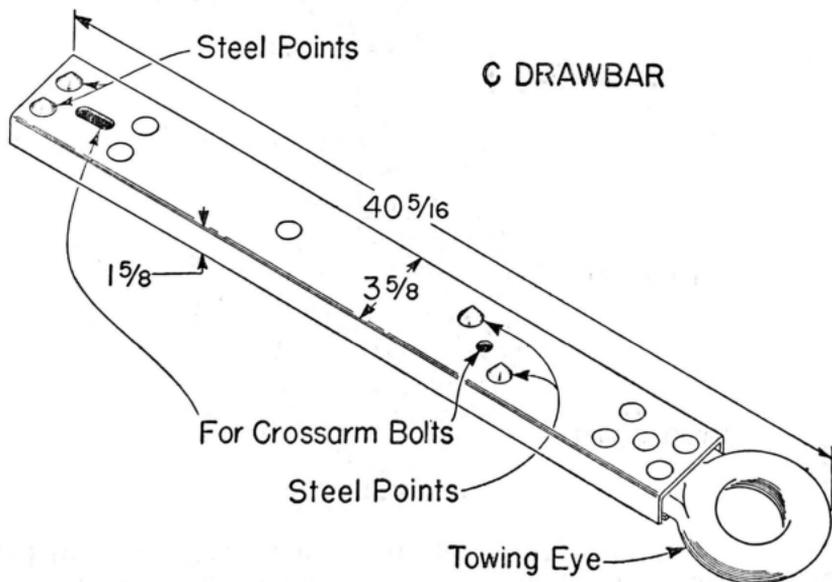
4.04 To bind a pole using a king pole binder, place a link of the chain in the chain socket, the chain need not be too tight. Then bring the pole binder lever up and lock the lever in the latch. The spring clamp will hold the chain tight keeping the pole in place.

4.05 The load of poles should be bound in accordance with the instructions in the section on Loading and Binding.

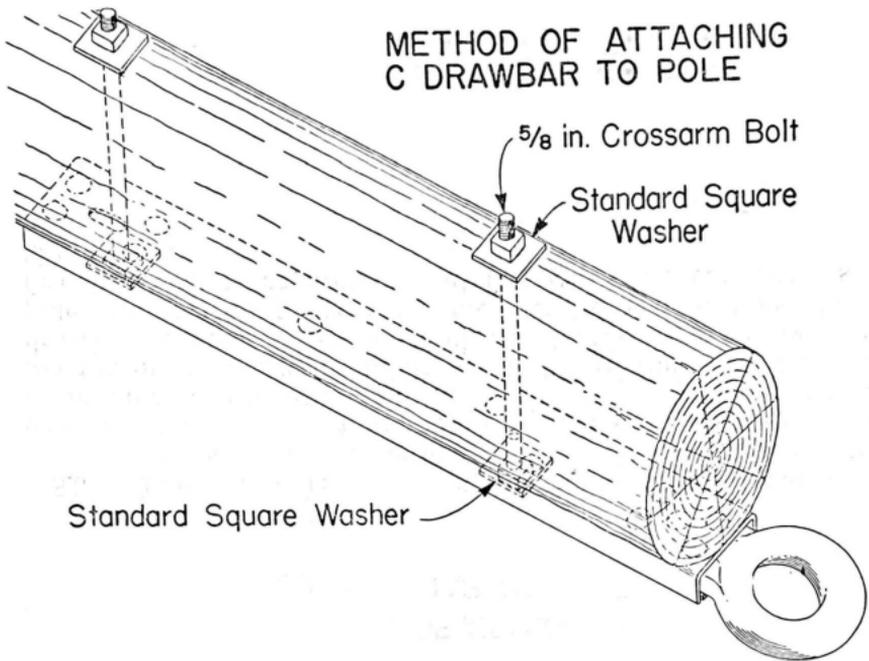
5. DRAWBARS

5.01 A drawbar is used to couple a loaded two-wheel trailer to the towing hook of a truck when the trailer is not equipped with an extensible tongue or the poles are too long to permit the use of the extensible tongue. A pole in the load is used as a "king pole" or "reach" to replace the tongue. The types of drawbar now in use are the C, CB, L, and H. The CB drawbar supersedes the C, L, and H drawbars.

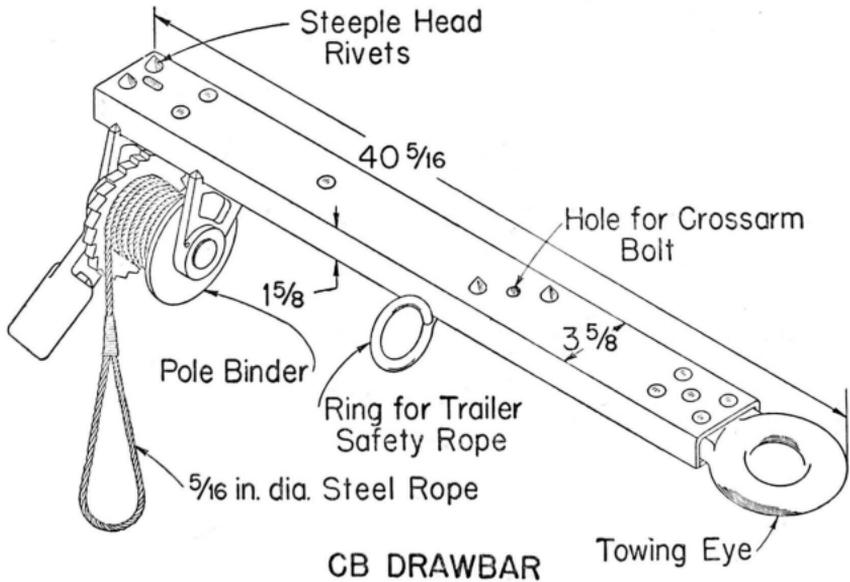
5.02 The C drawbar consists of a fabricated steel section with a forged steel towing eye. Two holes for 5/8-inch crossarm bolts are provided to permit attachment to a pole. Steel points or calks are provided to aid in holding the drawbar on the pole. The C drawbar weighs 38 pounds and will handle a properly loaded trailer with a gross vehicle weight of 10 tons.

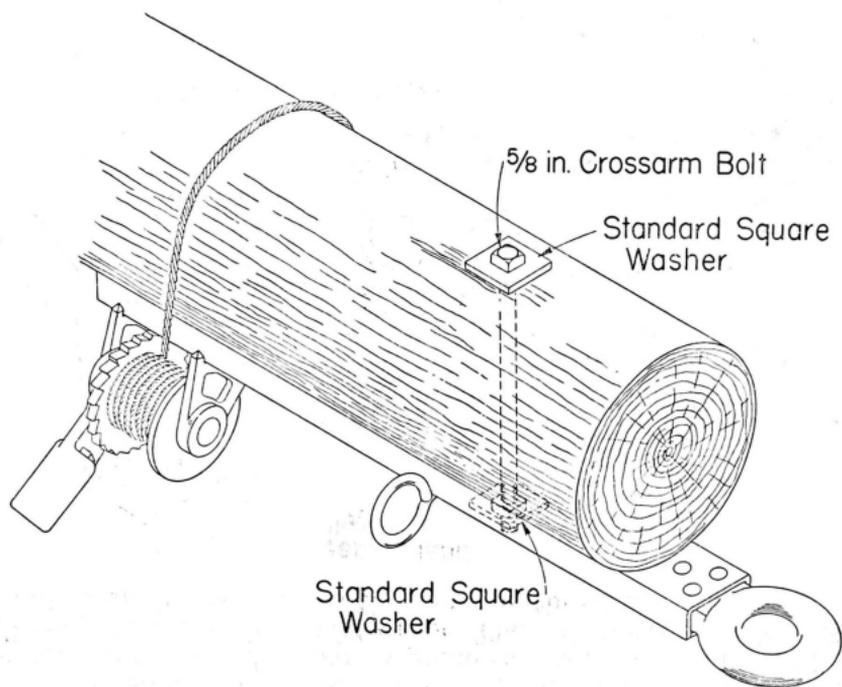


METHOD OF ATTACHING C DRAWBAR TO POLE



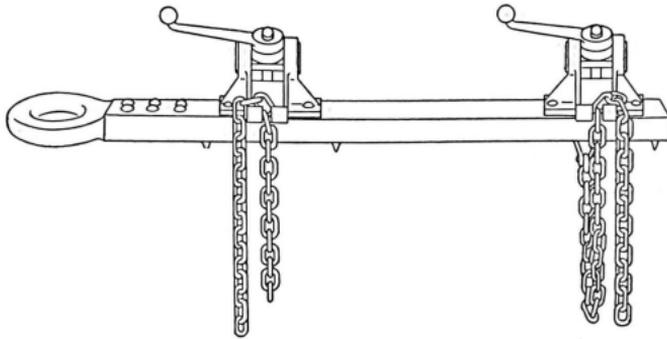
5.03 The CB drawbar is similar to the C drawbar; however, a pole binder assembly is permanently attached to the pole end of the drawbar. A guide ring is also supplied which will support the trailer safety rope. The CB drawbar weighs 57 pounds and the capacity is the same as the C drawbar.



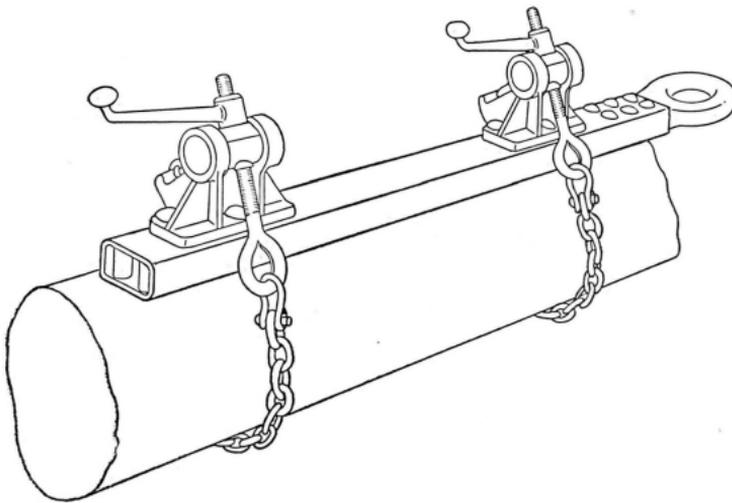


METHOD OF ATTACHING CB DRAWBAR TO POLE

5.04 The L and H drawbars are similar in appearance and consist of a rectangular steel section with steel points or calks to bite into the pole and a forged steel towing eye. Two attachment chains and chain tightening mechanisms for attaching the drawbar are mounted on the top of the drawbar. The L drawbar weighs 31 pounds and will handle a properly loaded pole trailer with a gross vehicle weight of two tons. The H drawbar weighs 55 pounds and has the same capacity as the C drawbar.



H DRAWBAR



5.05 To use any of the drawbars, fasten it securely to the king pole using the bolts, pole binder, or chain fasteners as applicable. After travelling a short distance the chains, bolts or pole binder should be tightened again since the steel points will work into the pole.