



ELKHART BRASS OPERATING & MAINTENANCE INSTRUCTIONS

Information & Instructions for ELKHART MODEL 285 HOSE CLAMP

These instructions are provided to allow safe and efficient use of this product. All personnel expected to use this clamp should be made familiar with the recommended operating procedures.

CLAMP CAPACITY AND CAPABILITIES:

The Elkhart Model 285 Clamp has been designed for use on fire department hose lines of **three (3) inch or smaller** nominal size. It will function properly on woven double jacket hose as well as on rubber covered hose.

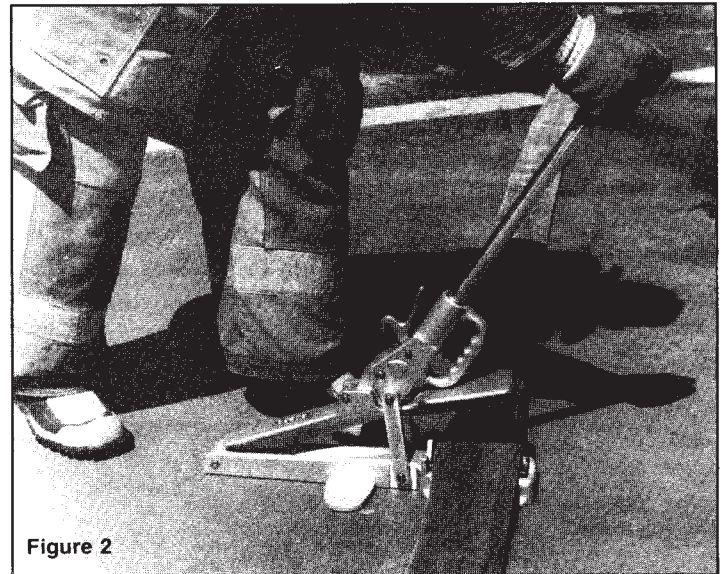
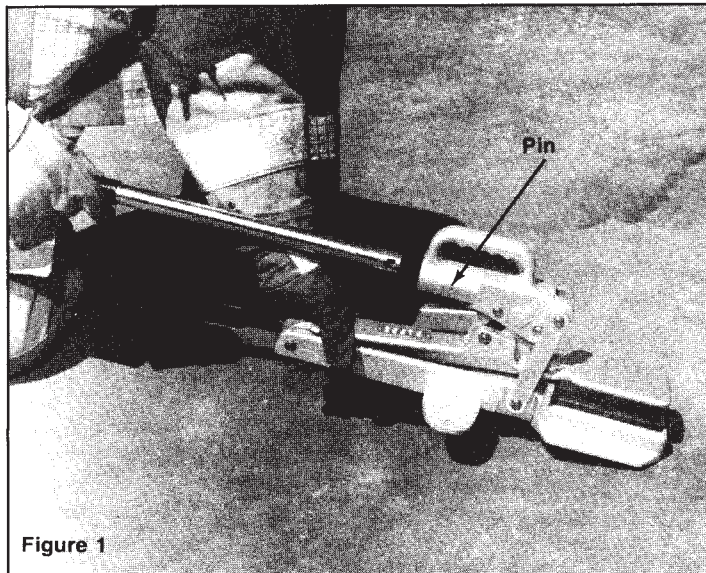
A. After clamping dry, uncharged hose line, the clamp will safely remain in place and prevent flow passage up to a **static pressure of 150 p.s.i.**

B. The clamp can be used to safely stop flow through a hose line in an emergency, such as a burst line when control valve is not accessible. A flow of **up to 500 g.p.m. at 100 p.s.i.** can be readily stopped.

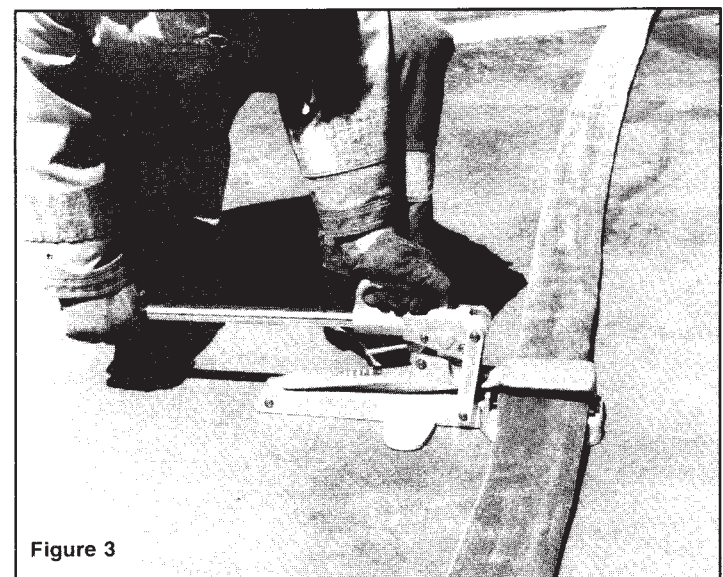
C. The model 285 clamp **should not be expected to clamp off a charged static hose line.** Due to the incompressibility of water, and the need for the clamp to displace a fair volume of water during the clamping operation, pressures beyond the clamp capability would likely develop within the hose.

CLAMP HANDLE ASSEMBLY:

To install handle into handle body, insert slotted end of handle into socket in handle body. Rotate handle until slots align with pin inside of socket. (See Figure 1). To lock handle in place, push handle firmly into socket until spring in socket is completely depressed, then turn handle clockwise one quarter turn and release. Pull out on handle to ensure that it is secured in socket.



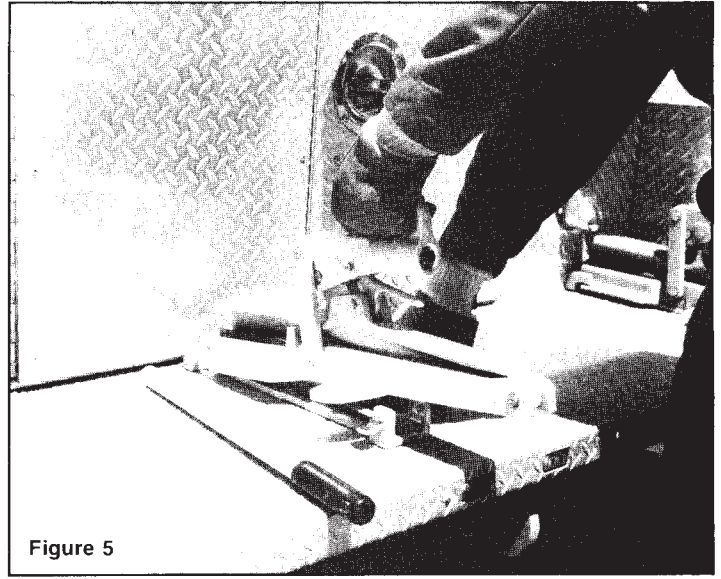
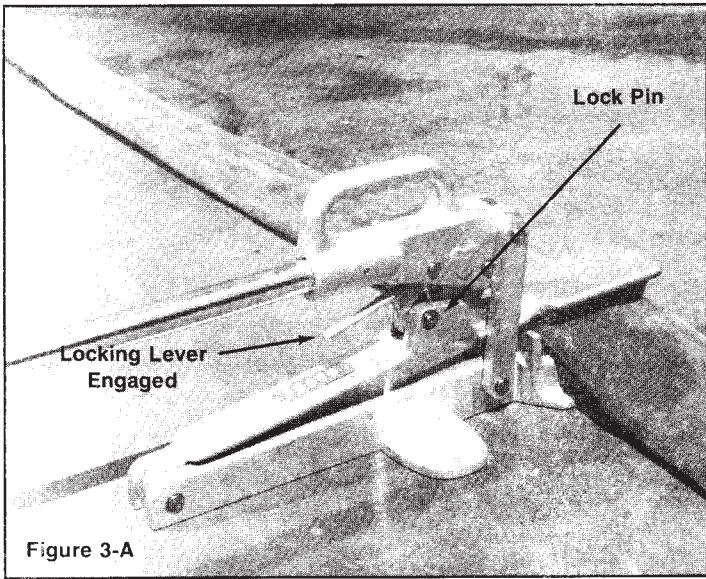
To clamp the dry line, open the clamp fully (release locking lever, raise handle and push to the furthest forward position). Slide hose into the clamp jaw, being sure that hose is centered on rubber insert of lower clamp jaw (See Figure 2). **Important: If hose is not centered in clamp jaws, water may leak at the edge of the hose fold.** Such high velocity leakage at the edge of the hose can quickly cause erosion damage to rubber hose liner.



CLAMP OPERATION TECHNIQUE:

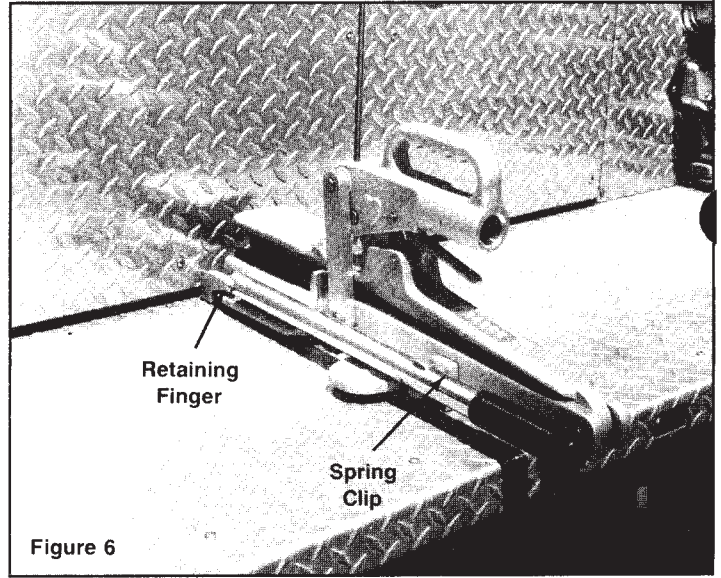
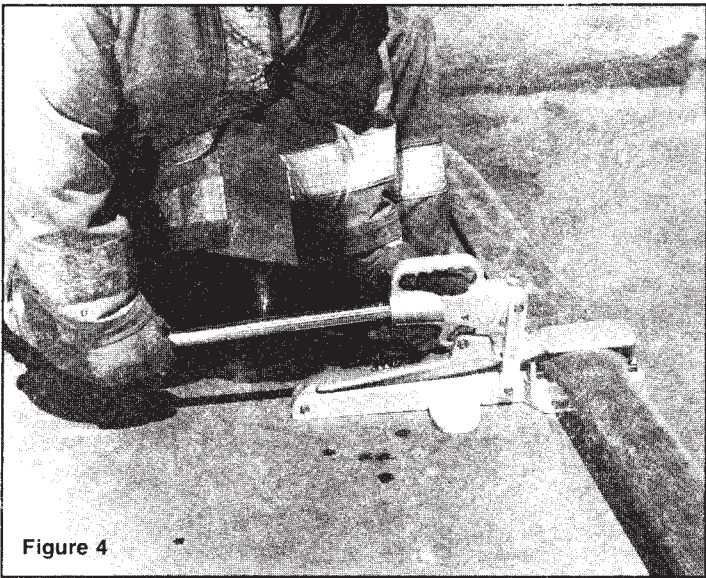
A. Dry, uncharged hose lines: The vast majority of hose clamp use is in forward lay situations for the purpose of clamping the dry supply line at the rear of the pumper. The hydrant man can then open the hydrant before the supply line is broken off the hose bed and connected to the pump.

To close clamp, swing handle toward rear of clamp and downward until locking lever engages the lock pin (See Figure 3 and 3-A). A fair amount of effort will be necessary to tightly compress the hose against the rubber clamp jaw and engage the handle lock. Pull up on the handle to be sure locking lever is engaged before hydrant is opened.



To release the clamp after the hydrant is opened and pumper connection has been made, grasp handle grip and apply body weight to handle, then pull up on locking lever to disengage from lock pin (See Figure 4). Continue holding locking lever in disengaged position **while slowly allowing handle to swing up and forward** to fully release clamp. Clamp can then be removed from hose line.

For more compact storage of the clamp unit, the clamp handle is removable by pushing handle toward handle body and turning handle counterclockwise one quarter turn. Handle can be stored in the spring clip attached to the side of the storage bracket (See Figure 6). To avoid damage to the slotted end of handle, **do not slide end of handle over retaining finger** at forward end of bracket. The spring clip alone will reliably retain the handle to the bracket.



B. Charged, flowing hose line: For emergency flow control, such as a burst hose situation, apply clamp to a section of hose upstream from the burst section. Open clamp jaws fully and place hose between clamp jaws (centered on rubber insert). Pull handle back, then push downward on handle with body weight until locking lever engages lock pin. Replace burst section of hose, then release and remove clamp as described in previous paragraph.

CAUTION:
Never attempt to open or close a hose clamp of this design by standing over or straddling the clamp handle. Always stand and/or kneel at the side of the clamp to operate safely.

CLAMP STORAGE:

The Elkhart Model 285-MB mounting bracket allows for convenient storage of the model 285 hose clamp on the apparatus tailboard or running board, providing for ready accessibility when needed. To remove the clamp from the storage bracket, simply pull up on clamp carrying handle and slide unit back to allow jaw area of clamp to clear the retaining fingers at the forward end of the bracket (See Figure 5).

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