

# Installation Instructions for 82414 Safety Wire Pliers

## OPERATING PROCEDURES:

**CAUTION:** Do **NOT** reuse safety wire. Torque all fasteners to be safety wired to their recommended torque. Never over torque or loosen a torqued fastener to align safety wire holes.

1. Open the safety pliers by squeezing the handles together and sliding the center perforated slider towards the jaws.
2. Slide safety wire through the head of the fastener (Figure 1). Wrap one end of the safety wire around the head of the fastener, making sure to go in the direction as if you were tightening the fastener (Figure 2).



Figure 1

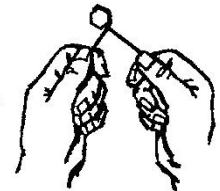


Figure 2

**NOTE:** The number of fasteners that may be safety wired is dependant on application. When using a double-twist method on widely-spaced fasteners usually three or a 24" length of safety wire is the maximum.

3. Grip both safety wires in the jaws of the pliers, squeeze handles together and pull the perforated slider towards the rear of the pliers to lock the pliers.
4. Letting the pliers spin free pull the aluminum knob at the rear of the pliers (Figure 3). Whenever possible employ double-twist safety wiring (Figure 4). Being sure to not stretch or nick the safety wire twist to a tightness of 4-5 complete revolutions per inch. Do not let kinks develop.
5. Holding the pliers firm in one hand, use the palm of your other hand to push in the aluminum knob. Starting from step one above continue to the next fastener.
6. When finished with safety wiring the series of fasteners make a pigtail of 1/4" to 1/2" long (four twist minimum) at the end and bend back to prevent snagging.

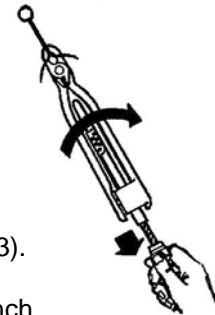


Figure 3



Figure 4

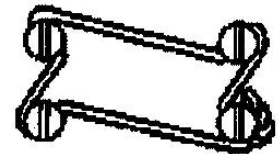


Figure 5

**NOTE:** Limit single twist safety wiring to small screws or hard to reach parts (Figure 5).

### Below are examples of double-twist safety wiring on fasteners with right hand threads:

- (1) Fasteners in series.
- (2) Castellated nuts and studs  
(Note: No loop around nut).
- (3) Component wired to housing or lug.
- (4) Wiring bolts in different planes.
- (5) Where locking lugs are not provided.

