

## HANDLING STATION WIRE AND CABLE

### 1. GENERAL

1.01 This section covers the general factors to be considered when handling station wire and cable.

1.02 This section is reissued to:

- Add information on D inside wiring cable and H station wire self-contained carton/dispenser
- Remove information on G station wire which is manufacture discontinued (MD).

Revision arrows are used to emphasize the more significant changes.

### 2. DISPENSING CABLE OR WIRE FROM CONVENTIONAL AND SELF-CONTAINED CARTON/DISPENSERS AND LOOSE COILS



*Exercise care to protect wire and cable from damage. When transporting in vehicles, see that wire and cable are not subjected to crushing or abrasion by tools or other equipment.*

2.01 To dispense D inside wiring cable or H station wire from conventional carton/dispenser, perform the following.

- (1) Remove large perforated knockout from carton.
- (2) Remove free end of wire from slot in bottom. Do not remove plastic insert.
- (3) Place carton on floor and feed wire from carton (Fig. 1).
- (4) Replace wire in slot (in bottom of carton) after cutting.

2.02 To dispense D inside wiring cable or H station wire from self-contained carton/dispenser perform the following.

- (1) Remove plastic plug (Fig. 2) from plastic nozzle in carton.
- (2) Grasp free end of cable or wire protruding from plastic nozzle and pull several feet of slack from carton.
- (3) Place carton on floor and feed cable or wire from carton/dispenser (Fig. 2). **Do not remove cable or wire from carton.**
- (4) After cutting the cable or wire and leaving several inches protruding beyond the nozzle, reinsert the plastic plug in the nozzle to anchor the cable or wire end outside the carton.

2.03 To pay out station cable from loose coil, remove cable from coil by paying it off from outside of coil (Fig. 3).

### 3. DISPENSING STATION WIRE AND CABLE FROM SPOOLS OR REELS

3.01 To dispense H station wire or 4-pair D inside wiring cable from spool-in-carton, open top of carton and fold sides down to match holes in side of carton; then insert pipe or equivalent implement through holes in carton and hole in spool, using the carton as spool support (Fig. 4).

3.02 The H station wire or 4-pair D inside wiring cable can be dispensed more efficiently with the AT-8903 B station wire reel (Fig. 5). Clamp B station wire reel to post, stud, or beam. Remove cardboard spool of wire from carton, place it within flanges of B station wire reel, and dispense as needed.

3.03 Inside wiring cable or connector cable can be dispensed using the AT-8890 B cable dispenser (Fig. 6). The hub of the dispenser is designed to dispense 25- to 100-pair connector cable in loose coils up to 200 feet in length. The cable can be dispensed from

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the outside or inside of the coil. The top of the dispenser has a socket for mounting a warning flag. An adjustable friction brake is provided to prevent over-runs.

#### 4. STRIPPING CABLE

4.01 To strip plastic-jacketed inside wiring cable with jacket-slitting nylon cord, perform the following.

- (1) Slit end of jacket with diagonal pliers for approximately 1 inch.
- (2) Locate jacket-slitting nylon cord under jacket.
- (3) Grasp cable firmly in one hand, and using long-nose pliers pull nylon cord through cable jacket to the desired stripped length (Fig. 7).

#### 5. STRIPPING JACKETED WIRE

5.01 To strip SK and H station wire, perform the following.

- (1) Slit end of jacket with diagonal pliers for approximately 1 inch.
- (2) Locate jacket-slitting nylon cord under jacket.
- (3) Grasp wire firmly in one hand, and using long-nose pliers pull nylon cord through jacket to the desired stripping length (Fig. 7 and 8).

5.02 To strip D station wire (when desired stripped length exceeds 12 inches), perform the following.

- (1) Use *diagonal pliers* to cut through jacket and insulation to expose conductors (Fig. 9).
- (2) Hold the wire firmly with one hand, grasp one or two of the exposed conductors with long-nose pliers, and pull, using the conductors to split the jacket to the desired stripped length (Fig. 9).

#### 6. SKINNING 22- AND 24-GAUGE INSULATED CONDUCTORS

6.01 The recommended method for skinning the insulation from individual conductors is with the 6-inch diagonal pliers (Fig. 10). The newer 6-inch diagonal pliers have separate notches for skinning 22-gauge, 24-gauge, and drop wires.

6.02 Avoid other methods of skinning insulation which result in nicks or cuts across the metal conductor. Such damage often causes the wire to break when flexed.

#### 7. TERMINATING CONDUCTOR AT SCREW TERMINALS

7.01 To terminate conductor at a screw terminal, bend the wire clockwise in a hairpin loop around the screw. Push conductor away from the screw, especially finer gauge conductors, to prevent the wire from being caught in the threads and getting broken when the screw is tightened (Fig. 11).

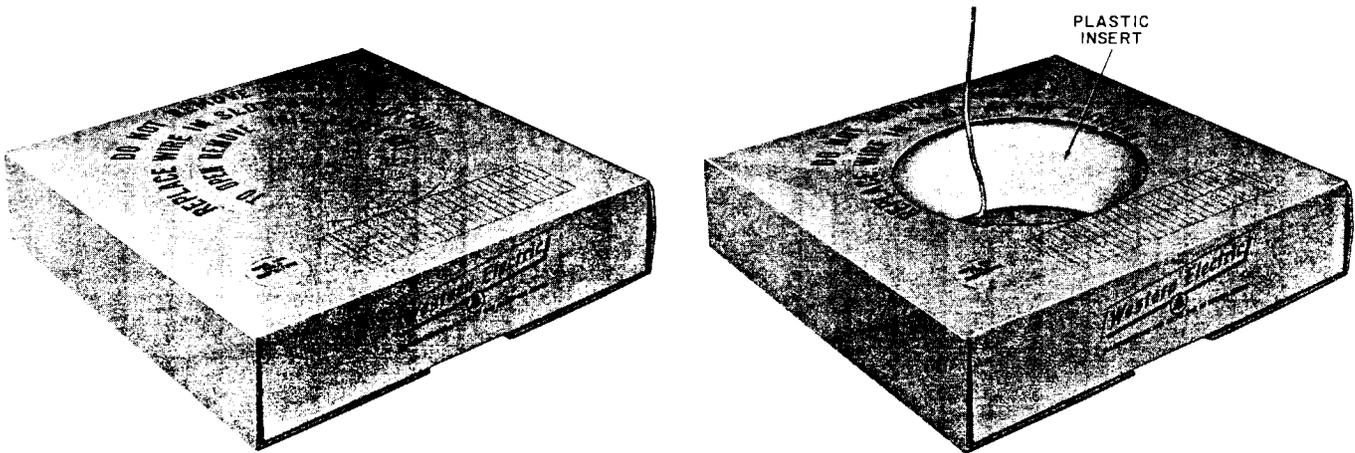


Fig. 1—Dispensing D Inside Wiring Cable or H Station Wire Using Conventional Carton/Dispenser

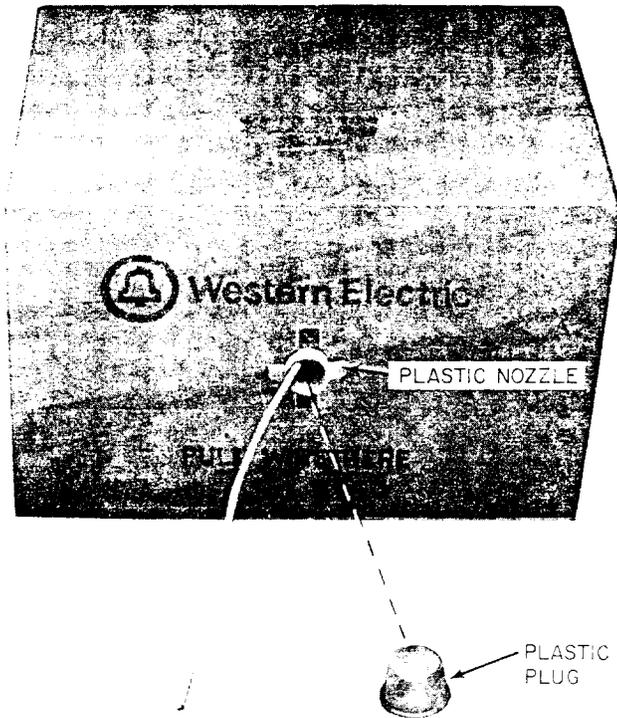


Fig. 2—Dispensing D Inside Wiring Cable or H Station Wire Using Self-Contained Carton/Dispenser

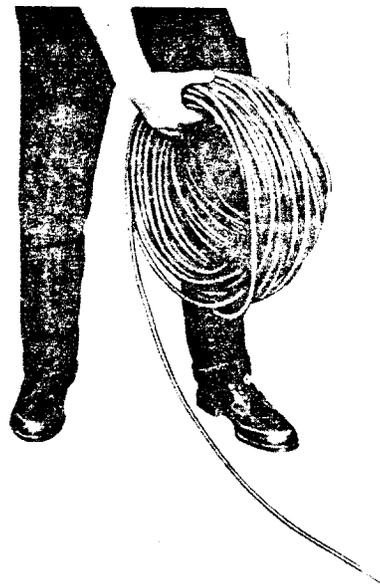
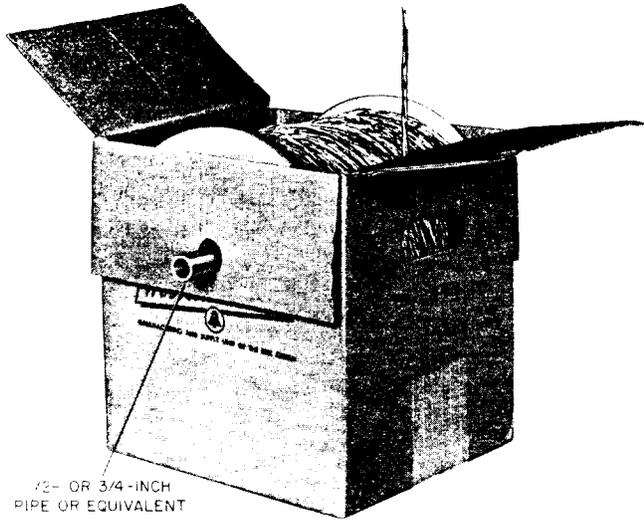


Fig. 3—Paying Out D Inside Wiring Cable



**Fig. 4—Carton Used as Spool Support for D Inside Wiring Cable or H Station Wire**

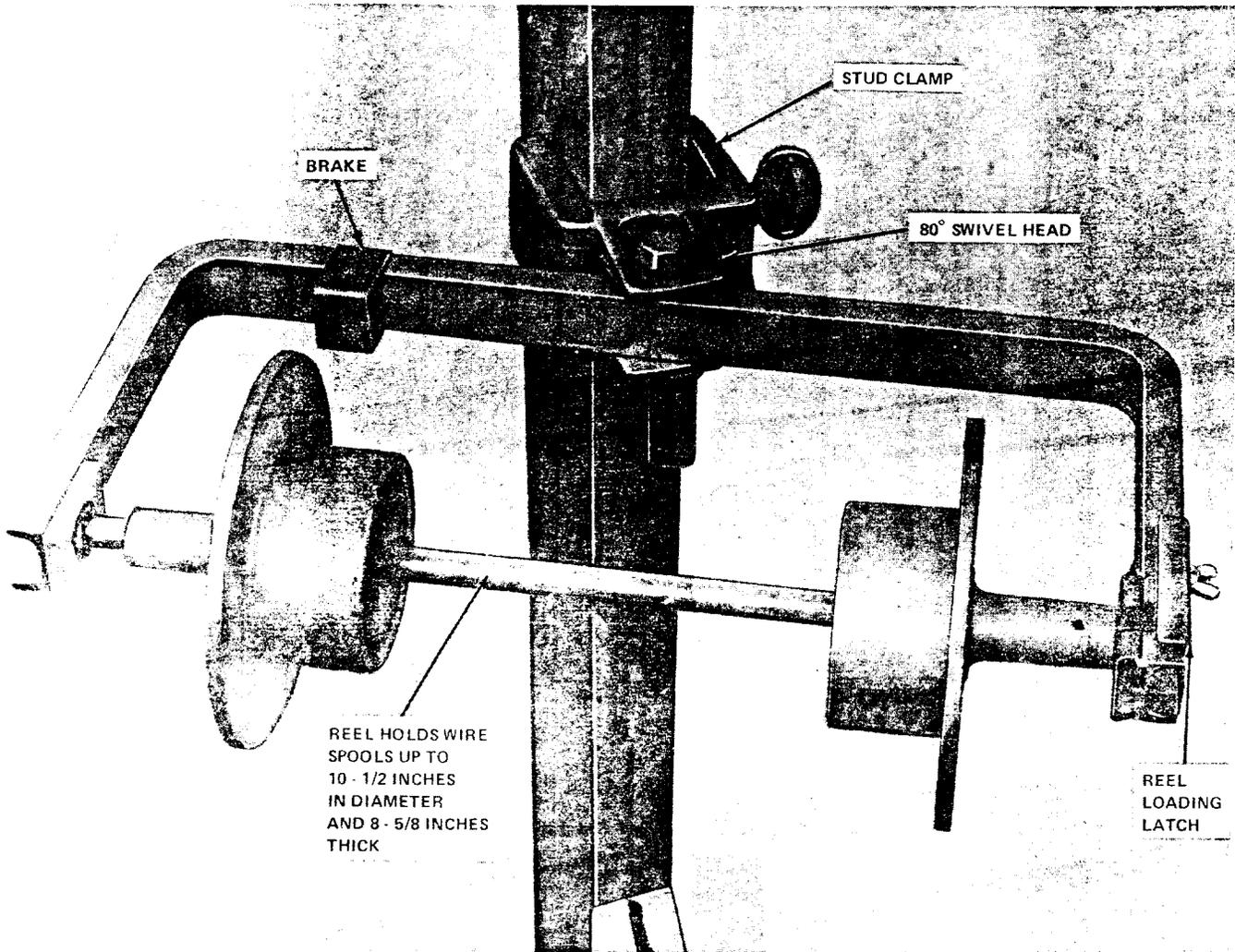


Fig. 5—AT-8903 B Station Wire Reel Mounted on Stud

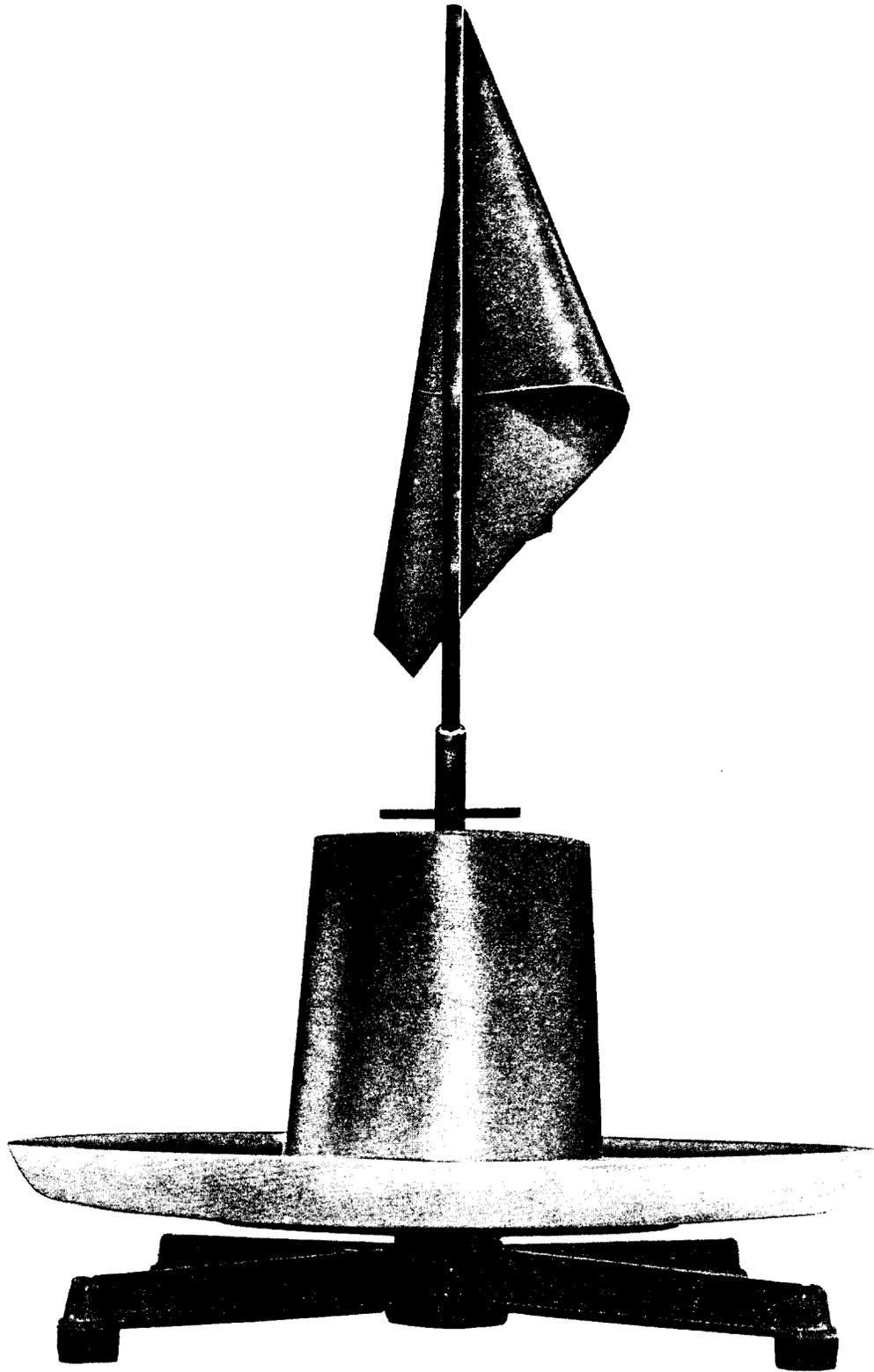


Fig. 6—AT-8890 B Cable Dispenser

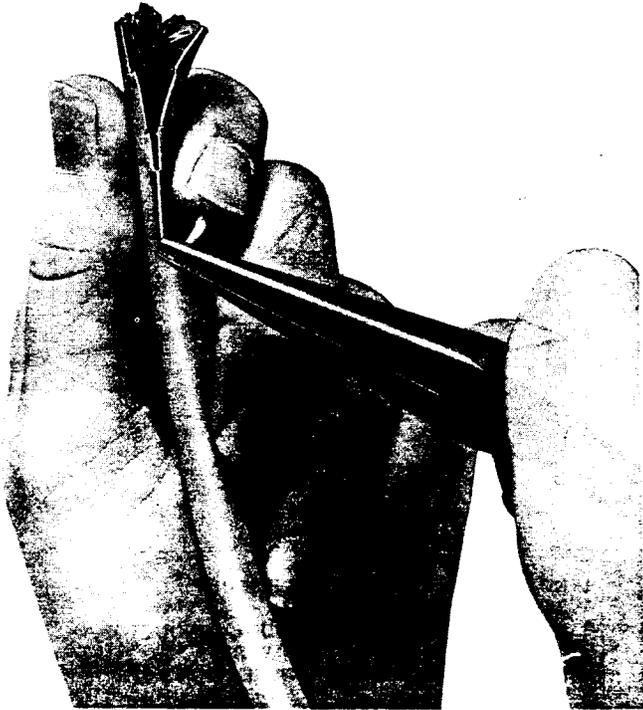


Fig. 7—Stripping D Inside Wiring Cable or H Station Wire  
(With Jacket-Slitting Cord)

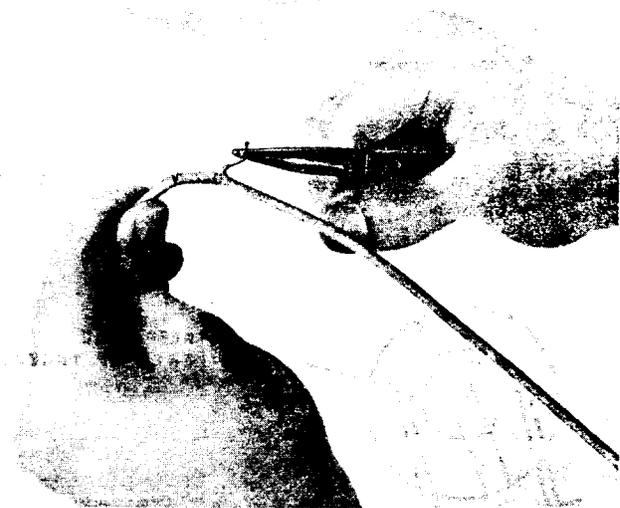
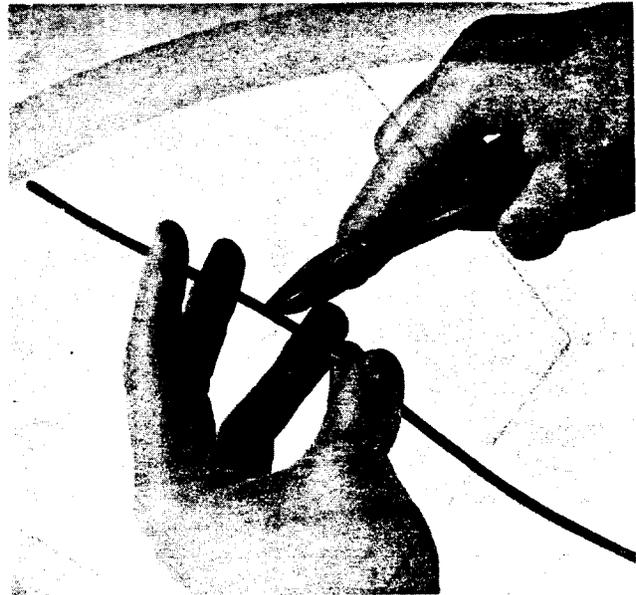


Fig. 9—Stripping D Station Wire

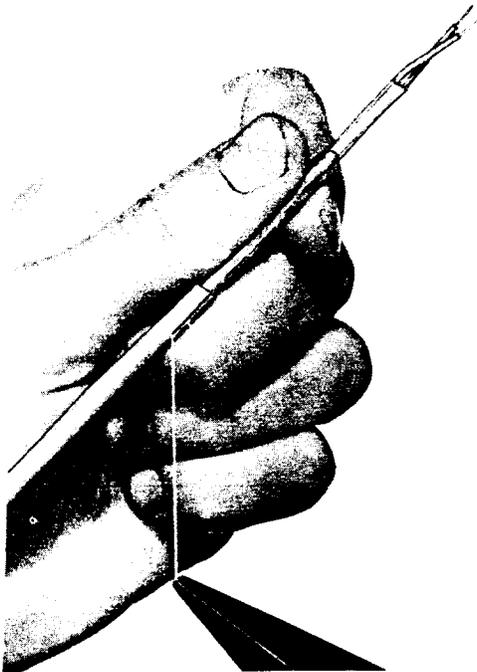


Fig. 8—Stripping SK Station Wire

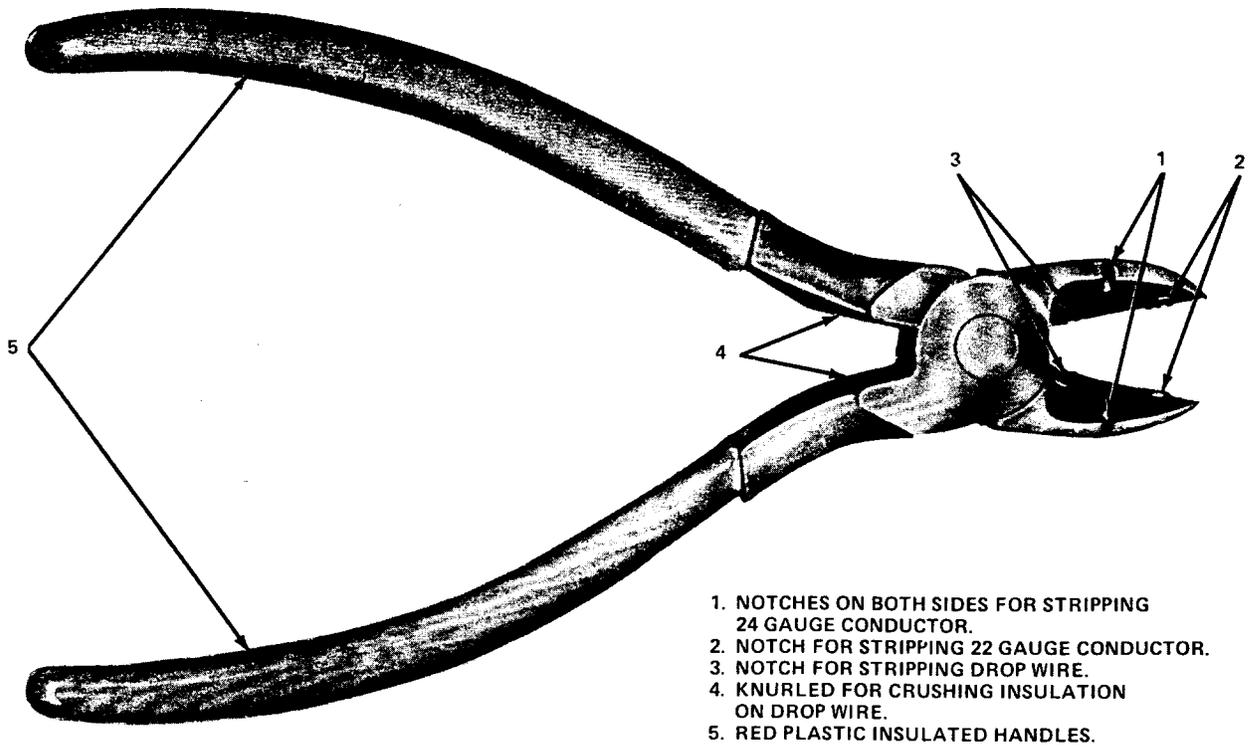


Fig. 10—Recommended Tool for Skinning Insulation From Conductors

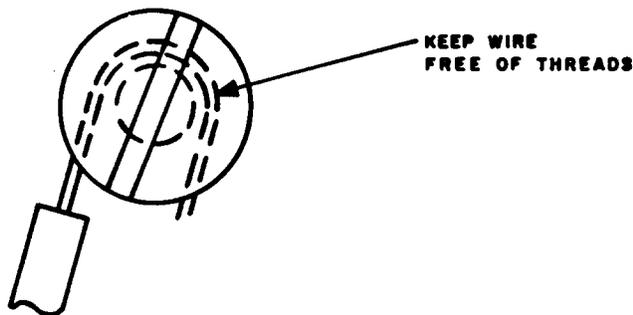


Fig. 11—Terminating Wire at Screw Terminals