

## WARNING - STEEL ELECTRICAL FISH TAPE

Any piece of equipment can be dangerous if not operated properly. **YOU** are responsible for the safe operation of this equipment. The operator must carefully read and follow any warnings, safety signs and instructions provided with or located on the equipment. Do not remove, defeat, deface, or render inoperable any of the safety devices or warnings on this equipment. **IF** any safety devices or warnings have been removed, defeated, defaced, or rendered inoperable, **DO NOT USE THIS EQUIPMENT!!!**

### IMPORTANT SAFETY INSTRUCTIONS

#### INSTRUCTION MANUAL



#### 438-5H FISH TAPES



Read and understand this material before operating or servicing this tool. Failure to understand how to safely operate this tool could result in an accident causing serious injury or death.

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### IMPORTANT SAFETY INSTRUCTIONS



#### ⚠ WARNING

Electric shock hazard:  
Do not use near live circuits. Contact with live circuits can result in severe injury or death.



#### ⚠ WARNING

Wear eye protection when using or servicing this tool.  
Failure to wear eye protection can result in serious eye injury from flying debris or from the end of the fish tape.

#### ⚠ CAUTION

- Inspect the fish tape before use. Cracks, gouges, nicks, rust or sharp bends will weaken all fish tape.
  - Do not use tools or powered pulling equipment to pull any fish tape. Damage to the tape will result.
  - Do not force a pull that is hung up. Remove wires and check for kinks and obstructions.
- Injury can result if tape breaks while being pulled.

#### Operation

1. Manually feed the fish tape through the conduit.
2. Fasten the pull line securely as shown in Figure 1.



Figure 1

3. Wrap the connection with plastic or electrical tape to protect the connection.

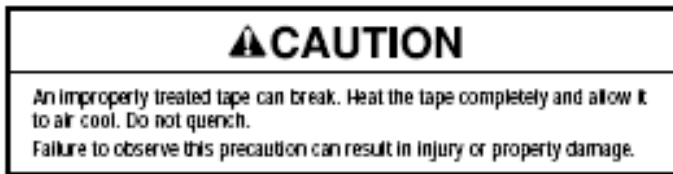
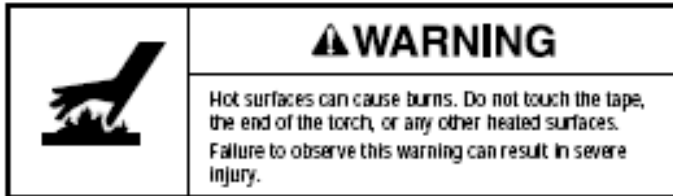
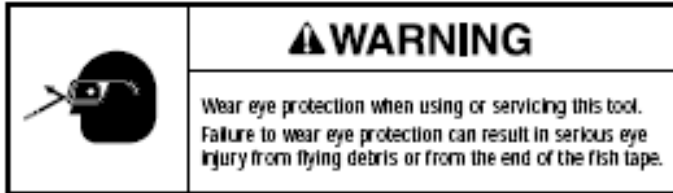


#### ⚠ WARNING

Keep secure footing and balance.  
Fish tape could separate or move suddenly while pulling.

4. Pull the fish tape through the conduit.

## R438B/29367 FISH TAPE SWIVEL TIP



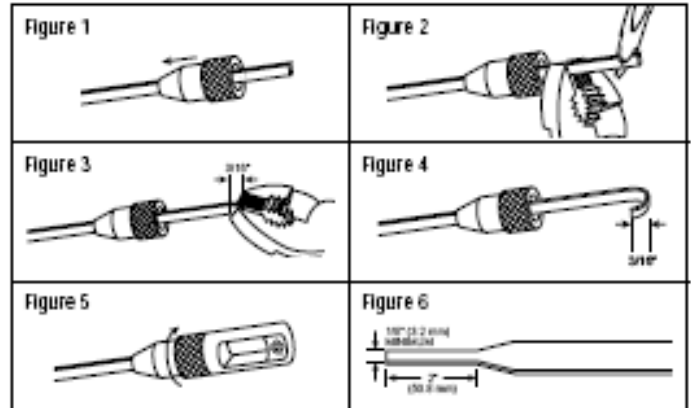
### Preparation

- Tape without a ball tip: Cut off the loop at the end of the tape.
- Tape with a ball tip: Unscrew the male half of the ball tip from the female half. Slide the female half away from the crimped end of the tape. Cut off the crimp. Remove the female half from the tape.

### Replacement

1. Slide the female half of the ball tip, narrow end first, onto the tape. See Figure 1.
2. Grip the tape with a pair of insulated pliers. Use a torch to heat the tape until it is a dull red color. See Figure 2.
3. Use another pair of insulated pliers to make a 3/16" (4.8 mm) crimp in the tape. See Figure 3. Crimp the tape back to 180°. See Figure 4.
4. Allow the tape to air cool completely. The tape should be folded completely back on itself.
5. Reheat the tape and allow it to air cool completely. Do not quench.
6. Thread the male half of the ball tip into the female half. See Figure 4. Tighten with pliers.

*Note: If the ball tip does not rotate freely, cut off the tip and grind the tape as shown in Figure 5. Form a new crimp as described in Steps 1-6.*



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If the person receiving this handout will not be the user of the equipment, forward these instructions to the operator. **IF** there is any doubt as to the operation or safety of the equipment, **DO NOT USE!! CALL A TOOL SHED IMMEDIATELY!!! FAILURE TO FOLLOW THESE INSTRUCTIONS COULD RESULT IN INJURY OR DEATH**