



# Fire Protection Training

Procedures Handbook 4300

HOSE

**TOPIC:** How To Connect To A Sprinkler System

**TIME FRAME:** :20

**LEVEL OF INSTRUCTION:** Level II

**BEHAVIORAL OBJECTIVE:**

*Condition:* An engine, a sprinkler system or prop, two lengths of 3" or 2-1/2" hose, a universal spanner wrench and a mallet

*Behavior:* The student will demonstrate how to connect to a sprinkler system under simulated fire conditions.

*Standard:* With a minimum of 100% accuracy

**MATERIALS NEEDED:**

- An engine with ENOP assistant
- Two lengths of 3" or 2-1/2" fire hose bedded
- Fire department sprinkler connection (real or prop) (FDC)
- Universal spanner wrench in turnout coat
- Rubber mallet
- Full structure fire PPE per CAL FIRE policy

**REFERENCES:**

- IFSTA, Essentials of Fire Fighting, 2nd Edition, Chapter 16

**PREPARATION:**

As a firefighter, it may be your responsibility to supply additional water to the fire area by charging a sprinkler system. Fellow firefighters and occupants depend on your ability to get the sprinkler system pressurized in a timely manner.



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SPRINKLER SYSTEM

## OPERATIONS

## KEY POINTS

- | OPERATIONS  | KEY POINTS  |
|---|---|
| 1. Remove pump discharge caps   | 1a. Counter-clockwise<br>b. Use spanner wrench or mallet as required  |
| 2. Place caps   | 2a. On running board<br>b. In brass compartment   |
| 3. Remove two (2) lengths of 2 1/2" or 3" hose from hose bed              | 3a. Face direction of travel when pulling<br>b. Step cautiously from tail board<br>c. Three points of contact, no jumping   |
| 4. Break couplings  | 4a. Use foot tilt method<br>b. Uncouple first and second length<br>c. Uncouple second and third length                      |
| 5. Place unused hose in hose bed  |   |
| 6. Extend hose lines  | 6a. To sprinkler connection<br>b. Male threads towards connection<br>c. Avoid vehicular traffic path if possible            |
| 7. Lay down male hose fittings at sprinkler connections                   | 7a. Fold back hose to protect male threads (grounded)   |
| 8. Remove sprinkler intake caps or break connection cover plates from FDC | 8a. Turn caps counter-clockwise<br>b. Use spanner and mallet as required<br>c. Use spanner to break covers (breakaway type) |
| 9. Attach lines to sprinkler outlet                                       | 9a. Hand tight<br>b. Lowest fitting first   |
| 10. Return to female end of hose lines                                    |   |
| 11. Extend hose lines to pump discharge outlets and connect               | 11a. Hand tight   |
| 12. Pump the system   | 12a. ENOP<br>12b. At pressure designated in discharge   |

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***APPLICATION:***

The student will practice until proficient.

***EVALUATION:***

A performance examination.

***ASSIGNMENT:***

To be determined by instructor(s).