



# Fire Protection Training

Procedures Handbook 4300

HOSE

**TOPIC:** How to Make a Reverse Hose Lay - Supply Line

**TIME FRAME:** 15 Minutes

**LEVEL OF INSTRUCTION:**

**BEHAVIORAL OBJECTIVE:**

*Condition:* Two fire engines and 500 feet of medium or large diameter hose, a fire hydrant, a hydrant wrench, an operator, and one assistant

*Behavior:* The student will pull and anchor the hose, make a reverse lay, make the hydrant connection, and charge a reverse lay under simulated fire conditions.

*Standard:* With a minimum of 70% accuracy, within five minutes

**MATERIALS NEEDED:**

- Two fire engines
- 500 feet of medium or large diameter hose
- A fire hydrant
- A performance examination
- Stop watch
- An engine operator
- One assistant

**REFERENCES:**

- IFSTA, Essentials of Fire Fighting, 2nd Edition, Chapter 10
- IFSTA, Hose Practices, 7th Edition, Chapter 5

**PREPARATION:**

Often the first engine on scene will need large amounts of supplemental water when the second engine arrives. In this situation, especially when a hydrant has low residual pressure, it is best for the second engine to lay from the first engine to the hydrant and boost the pressure.

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HOW TO MAKE A REVERSE  
HOSE LAY-SUPPLY LINE

## OPERATIONS

## KEY POINTS

- | OPERATIONS                                | KEY POINTS                                                                                                                                                                          |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Stop second-in engine                  | 1a. Temporarily<br>b. Within working distance of first-in engine                                                                                                                    |
| 2. Mount tailboard                        | 2a. Facing hose bed<br>b. Second in engine                                                                                                                                          |
| 3. Grasp hose                             | 3a. In hose bed of second-in engine<br>b. At loops                                                                                                                                  |
| 4. Step down                              | 4a. To ground<br>b. Facing direction of travel                                                                                                                                      |
| 5. Pull hose                              | 5a. Enough supply line to reach first-in engine pump suction inlet                                                                                                                  |
| 6. Remove equipment from second-in engine | 6a. Once second-in engine leaves could be a long walk                                                                                                                               |
| 7. Anchor supply line                     | 7a. One student<br>b. At fold<br>c. By edges<br>d. Thumbs up<br>e. Both hands                                                                                                       |
| 8. Give command "Lay Line"                | 8a. First student<br>b. Signal operator via mirror<br>c. Loudly<br>d. Operator of second-in engine drives to water supply<br>1) 5-12 MPH<br>e. After second student reboards engine |
| 9. Ground hose                            | 9a. When third coupling hits ground or when 100' of LDH is grounded                                                                                                                 |
| 10. Connect supply line                   | 10a. To first-in engine<br>b. At pump inlet                                                                                                                                         |

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HOSE LAY-SUPPLY LINE

## OPERATIONS

## KEY POINTS

11. Spot second-in apparatus

11a. At water supply

12. Set chocks

12a. Second student

b. In accordance with CDF policy

13. Pull hose

13a. Second student

b. Additional supply line

c. From hose bed

d. Facing direction of travel

e. Sufficient to reach pump discharge

14. Break coupling

14a. In hose bed

15. Connect supply line

15a. To second-in engine

b. At pump discharge

16. Connect second-in engine

16a. Hydrant

b. Hard or soft suction

17. Pressurize supply line

17a. To first-in engine

b. At first-in engine operator's  
command



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***APPLICATION:***

The student will practice until proficient.

***EVALUATION:***

A performance examination.

***ASSIGNMENT:***

To be determined by instructor(s).

# Performance Examination

HOW TO MAKE A REVERSE  
HOSE LAY-SUPPLY LINE

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## POINTS

### TIME START

- |     |                                                                                                      |           |
|-----|------------------------------------------------------------------------------------------------------|-----------|
| 1.  | Stop second engine temporarily near first in apparatus.                                              | <u>5</u>  |
| 2.  | Grasp hose in hose bed of second engine by the loops.                                                | <u>5</u>  |
| 3.  | Pull hose from the second engine hose bed stepping from the tailboard facing in direction of travel. | <u>10</u> |
| 4.  | Pull sufficient hose to reach first in engine's pump suction inlet.                                  | <u>10</u> |
| 5.  | Remove any necessary equipment from the second engine (prior to its leaving).                        | <u>5</u>  |
| 6.  | Anchor the supply line at a fold, by the edges with thumbs up.                                       | <u>10</u> |
| 7.  | Give command "Lay Line" loudly while visible in operator's mirror.                                   | <u>5</u>  |
| 8.  | Ground line when third coupling hits ground or when 100' of LDH is grounded.                         | <u>10</u> |
| 9.  | Connect supply line to first in engine's suction inlet.                                              | <u>5</u>  |
| 10. | Spot second engine at hydrant.                                                                       | <u>5</u>  |
| 11. | Set chock blocks.                                                                                    | <u>5</u>  |
| 12. | Pull additional hose from second engine hose bed to reach pump discharge.                            | <u>10</u> |
| 13. | Break coupling in hose bed and connect supply line to second in engines pump discharge.              | <u>10</u> |
| 14. | Make hydrant connection for second-in engine.                                                        | <u>5</u>  |

### TIME STOP

**ENTER TOTAL TIME:** \_\_\_\_\_:

**POINTS**

ENTER TOTAL TIME:              :

POINTS POSSIBLE:          100  

POINTS DEDUCTED:

FINAL SCORE:

EVALUATOR'S SIGNATURE:

DATE:

**COMMENTS:**

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