



# Fire Protection Training

Procedures Handbook 4300

MOBILE EQUIPMENT

**TOPIC:** Placement of Apparatus

**TIME FRAME:** 30 Minutes

**LEVEL OF INSTRUCTION:**

**BEHAVIORAL OBJECTIVE:**

*Condition:* A written quiz

*Behavior:* The student will describe factors affecting the placement of engines and aerial apparatus at the scene of an emergency.

*Standard:* With a minimum of 70% accuracy

**MATERIALS NEEDED:**

- Appropriate visual aids and audio visual equipment

**REFERENCES:**

- Fire Command, Alan V. Brunacini
- IFSTA, Introduction to Aerial Apparatus, 1st Edition
- IFSTA, Fire Department Pumping Apparatus, 4th Edition, Chapter 4

**PREPARATION:** Fire apparatus must be positioned on the fire scene to maximize effectiveness and safety. The function assigned the apparatus in conjunction with pre-fire plans and department standard operating procedures will determine apparatus positioning. Proper apparatus placement can expedite the operations at an emergency scene. Improper placement can be a burden to the entire operation.



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## PLACEMENT OF APPARATUS

PRESENTATION	APPLICATION
<p><b>I. POSITIONING OF APPARATUS AT URBAN FIRES</b></p> <p>A. Leave Room for Other Apparatus to Operate</p> <ol style="list-style-type: none"><li>1. Trucks take large area for set up</li><li>2. Do not block roadways/driveways/evacuation routes<ol style="list-style-type: none"><li>a. Emergency vehicles</li><li>b. Private vehicles</li></ol></li><li>3. Do not block back of apparatus that have to remove equipment from the rear</li></ol> <p>B. Be Aware of Possible Building Collapse</p> <ol style="list-style-type: none"><li>1. Park 1 1/2 times the height of the building from the building as a minimum</li></ol> <p>C. Watch Out for Utilities</p> <ol style="list-style-type: none"><li>1. Illuminate overhead electrical lines with spot lights at night</li><li>2. Use hazard flagging as appropriate</li></ol> <p>D. Uphill and Upwind from Incident, if Possible</p> <p>E. Avoid Confined Spaces and Alleys</p> <p>F. Outside Range of Heat and Flame</p>	<p>What are some of the considerations involved with apparatus placement at fires?</p> <p>Example: Ground ladders on trucks</p>



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<ul style="list-style-type: none"> <li>1. If fire progressed will apparatus be in danger?</li> <li>2. Do not let engine become an exposure</li> <li>G. Pump Panel and Operator Visible from Incident</li> <li>H. In Some Cases, the Engine/Apparatus may be Left, but Only if the Following are Accomplished:               <ul style="list-style-type: none"> <li>1. Spring brake applied</li> <li>2. Front wheels turned toward curb or barrier</li> <li>3. Chock blocks deployed</li> <li>4. All warning lights on</li> </ul> </li> <li>I. If incident is in one or more lanes park apparatus so that minimum number of lanes are blocked</li> </ul>	<p>In what condition is the apparatus parked?</p>
<p><b>II. POSITION OF APPARATUS AT WILDLAND FIRES</b></p> <ul style="list-style-type: none"> <li>A. Park in the Burn if Possible</li> <li>B. Put a Line Around Vehicle if not Within Burn</li> <li>C. Watch for Overhanging Trees or Foliage</li> <li>D. Avoid Power Lines</li> <li>E. Don't Drive into Tight Driveways and Roads Without Turn-arounds. Back In Whenever Possible for Rapid Egress.</li> <li>F. Sidehill Attitude if Possible               <ul style="list-style-type: none"> <li>1. Minimizes chance of "runaway"</li> <li>2. Not advisable if sidehill too steep</li> </ul> </li> </ul>	



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<ul style="list-style-type: none"> <li>a. Object is to keep shiny side up and tires down</li> <li>G. Do Not Block Roadways</li> </ul>	
<p><b>III. RESCUES</b></p>	
<ul style="list-style-type: none"> <li>A. Park so the Street is Clear for Emergency and Private Vehicles if at All Possible</li> </ul>	
<ul style="list-style-type: none"> <li>B. When Necessary Utilize the Vehicle as a Barrier, to Oncoming Traffic</li> </ul>	<p>What if the incident is in the street?</p>
<ul style="list-style-type: none"> <li>1. Place apparatus between oncoming traffic and the incident to protect personnel and equipment</li> </ul>	<p>How do you use an apparatus as a barrier?</p>
<ul style="list-style-type: none"> <li>a. Far enough away so if apparatus is hit, it has farther to travel before striking rescuers</li> </ul>	<p>Usually the farther back the better. Why?</p>
<ul style="list-style-type: none"> <li>b. But not so far that traffic can come around apparatus and strike rescuers</li> </ul>	
<ul style="list-style-type: none"> <li>c. Close enough so necessary equipment is at hand</li> </ul>	
<ul style="list-style-type: none"> <li>C. In Position to Warn Oncoming Traffic of Emergency Activity</li> </ul>	
<ul style="list-style-type: none"> <li>D. Wheels Should be Turned to Direct the Apparatus/Engine from Rescue Personnel if Hit</li> </ul>	



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<ul style="list-style-type: none"><li>E. Positioned to Reduce Engine Noise</li><li>F. Positioned to Reduce Exposure to Exhaust Fumes</li></ul> <p><b>IV. HAZARDOUS MATERIALS</b></p> <ul style="list-style-type: none"><li>A. Minimize Exposure of Personnel and Apparatus to Contaminants</li><li>B. Eliminate Apparatus as Ignition Source</li><li>C. Use Apparatus to Deny Entry</li><li>D. Park Uphill and Upwind at a Distance</li></ul> <p><b>V. STAGING AREAS</b></p> <ul style="list-style-type: none"><li>A. Far Enough from Incident to:<ul style="list-style-type: none"><li>1. Eliminate confusion</li><li>2. Eliminate congestion</li></ul></li><li>B. Close Enough to Incident:<ul style="list-style-type: none"><li>1. Respond quickly if needed<ul style="list-style-type: none"><li>a. Normally within three minutes</li></ul></li><li>2. To supply equipment and personnel if apparatus not necessary</li></ul></li></ul>	



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## ***SUMMARY:***

It is a shared responsibility of the Incident Commander and Apparatus Operator to position apparatus to most effectively contribute to incident operations.

## ***EVALUATION:***

A written quiz.

## ***ASSIGNMENT:***

To be determined by instructor(s).