



FIRE PROTECTION TRAINING

Procedures Handbook 4300

MOBILE EQUIPMENT

TOPIC: Chock Blocks, Seat Belts, and Roll Bars

TIME FRAME: :30

LEVEL OF INSTRUCTION: Level I

BEHAVIORAL OBJECTIVE:

Condition: Given a written quiz

Behavior: The student will list or describe CAL FIRE policy and procedures for utilizing chock blocks, seat belts, and roll bars.

Standard: With a minimum of 80% accuracy

- MATERIALS NEEDED:**
- CAL FIRE engine with chock blocks
 - Seat belts and roll bars
 - CAL FIRE FIX N FAX #12 updated 12/2009
 - Audio visuals
 - Appropriate audio visual equipment

- REFERENCES:**
- CAL FIRE, Mobile Equipment Management Procedures Handbook, 6851.1
 - CAL FIRE FIX N FAX #12 updated 12/2009
 - Cal. Vehicle Code 27315 and 27304, 27305

PREPARATION: CAL FIRE has installed chock blocks, seat belts, and roll bars on engines to reduce the number of serious or fatal injuries. In order for these safety devices to work they must be used.



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CHOCK BLOCKS, SEAT BELTS,
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PRESENTATION	APPLICATION
<p>I. CHOCK BLOCK - CABLE TYPE</p> <p>A. Parts- Cable and Non-cable Type</p> <ol style="list-style-type: none">1. Chock block body2. Grab bar (handle)3. Cable hook4. Aircraft cable (30-½" long) (If equipped)5. Anchor or hook eye<ol style="list-style-type: none">a. Attached to truck body for cable hook <p>B. CAL FIRE policy on using:</p> <ol style="list-style-type: none">1. Whenever vehicle is parked2. Always use both chocks3. Chock rear tires only4. Chock outside tires if vehicle equipped with rear duals5. Always connect hook to anchor when cable type chocks are used6. On level ground, set chocks at both front and rear of driver's side rear tire7. On a slope, place both chocks on the downhill side<ol style="list-style-type: none">a. One on driver's side	<p>Information sheet #1</p> <p>Information sheet #2</p> <p>Information sheet #3</p>



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<ul style="list-style-type: none">b. One on passenger's side8. On a steep slope, "set" chocks<ul style="list-style-type: none">a. After chocks are down and cables attached if equipped, operator should slowly and carefully let engine roll into the chocks, allowing the leading edge of the chock to dig into the soilb. The vehicles parking brake should also be setC. Care and maintenance<ul style="list-style-type: none">1. Keep all rough edges filed smooth2. Keep rust free and painted3. Replace damaged cables and chock blocks as necessary4. Cables MUST NOT BE permanently removed5. Keep chocks clean6. Inspect chocks regularlyD. Safety<ul style="list-style-type: none">1. Always wear gloves when placing or removing chock blocks2. Do not place or remove chocks until the operator tells you to3. Always grasp handles. Never put fingers or thumb where tire will rest4. Installing a piece of clear plastic hose over the chock cable reduces the number of hand injuries caused by frayed cables	



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<p>5. On soft ground the chock may sink, however, the cable has a tendency to act as a dead-man anchor and hold against the wheels</p> <p>6. If the vehicle operator tries to drive off with cable type chock blocks set, the result is that the bottom of the compartment may be pulled downward causing severe damage</p> <p>E. Storage</p> <p>1. When not in use, chock blocks should be placed correctly in chock block compartment</p> <p>2. Chock block compartments</p> <p>a. Location of compartment varies with each CAL FIRE model engine</p> <p>II. SEAT BELTS AND SHOULDER HARNESS</p> <p>A. General</p> <p>1. Designed primarily to restrain driver and passengers in case of accident or roll-over</p> <p>2. CAUTION!! Shoulder harness should never be worn without lap belt. Use together as a unit when provided</p> <p>3. Seat belts should be worn across the pelvic region (hip bone) and adjusted snugly. Never adjust a seat belt to ride across the abdomen</p> <p>4. Seat belts must be used whenever the vehicle is in motion, by driver and all passengers</p> <p>NOTE: Seat belts are required by CAL FIRE policy and CA vehicle code 27315 and 27304</p>	<p>Relate past experiences</p>



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<p>5. No private vehicle shall be used on state business unless it is equipped with approved seat belts</p> <p>6. All seat belts and shoulder harnesses installed in Department vehicles shall be of a type approved by California Highway Patrol (CHP). Seat belts purchased shall have a metal to metal latch with push button release</p> <p>B. Use</p> <ol style="list-style-type: none">1. Keep twists out of belts and harnesses2. To connect and adjust seat belt insert tongue into open end of buckle3. To release the seat belt; push in on the release button4. On the retractable type seat belt and shoulder harness, pull completely out of the retractor before adjusting and fastening the belt5. When adjusting shoulder harness, for proper slack, place fist on chest under strap. Shoulder belt should not be tight across body. Buckle shoulder harness in same manner as regular seat belt6. Seat belts when worn must be adjusted securely7. In the case of a severely strained seat belt and/or harness due to an accident or similar circumstances, they should immediately be replaced	<p>Fix-N-Fax #13</p>



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<p>C. Care of seat belts and shoulder harness</p> <ol style="list-style-type: none">1. They should receive the same care as the finest fabric2. May be kept clean by brushing off as necessary or you may clean them by using a mild soap and water solution3. DO NOT REMOVE SEAT BELTS OR SHOULDER HARNESS TO WASH OR CLEAN THEM - LEAVE THEM ATTACHED!!4. Do not bleach or re-dye webbing as it may cause a severe loss of tensile strength5. Do not use cleaning solvents or abrasives to clean6. Do not lay heavy or sharp objects on belts7. Keep foreign matter out of quick release buckle and retractors8. Entire belt and harness unit should be checked periodically for corrosion, wear, fraying, fabric stiffness and/or weak spots. The belt mounting bolts should be tight at all times. Report any damage to your supervisor9. When seat belts are not in use, they will be buckled together to prevent them from falling behind the seat. Those seat belts and shoulder harnesses with automatic retractors are to be kept unbuckled and retracted	<p>The Forestry Equipment Manager (FEM) is the only person authorized to install or replace seat belts.</p>



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<p>III. THE SAFETY CHAIN WILL BE PROPERLY ATTACHED WHENEVER APPARATUS IS IN MOTION.</p> <p>A. Located in crew compartment on CAL FIRE Model #1 and #5 engines</p> <p>IV. ROLL BARS</p> <p>A. They are permanently attached on engine to protect personnel in case of a roll over</p> <p>B. No fatalities have occurred on CAL FIRE engines due to roll-over accidents, since roll bars have been installed</p> <p>C. Require no maintenance other than occasional paint touch-up</p> <p>D. Roll bars do not eliminate injuries or fatalities, however, they increase percentages in favor of the crew and operator</p> <p>E. Roll bars may not be drilled, welded to or otherwise modified</p>	



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SUMMARY:

The safety equipment on CAL FIRE engines is provided for the protection of the employee. To be effective, this safety equipment must be used and maintained. The few seconds that must be invested to use and maintain this safety equipment may save your life.

EVALUATION:

A written quiz.

ASSIGNMENT:

To be determined by instructor(s).