



# FIRE PROTECTION TRAINING

Procedures Handbook 4300

**TOPIC:** Removing Objects From Between Duals

**TIME FRAME:** :30

**LEVEL OF INSTRUCTION:** Level I

**BEHAVIORAL OBJECTIVE:**

*Condition:* A written quiz

*Behavior:* The student will list and describe the methods of safely removing objects lodged between dual tires.

*Standard:* With a minimum of 80% accuracy

- MATERIALS NEEDED:**
- Pry bar
  - Chain
  - Vehicle equipped with dual tires
  - Appropriate visual aids
  - Audio visual equipment

**REFERENCES:** None

**PREPARATION:** One of the hazards of off highway driving is that objects such as rocks lodge between your dual tires. The worst method of removing these objects is to continue driving and have the combined effects of road vibration and centrifugal force remove them for you. When this occurs, the object becomes a projectile which is a hazard to you and the motoring public.



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## REMOVING OBJECTS FROM BETWEEN DUALS

PRESENTATION	APPLICATION
<p><b>I. VEHICLE INSPECTION PRIOR TO RETURNING TO HIGHWAY</b></p> <p>A. After any off road operations an inspection should be made of the vehicle for damage or unsafe conditions.</p> <p>B. Guidelines</p> <ol style="list-style-type: none"><li>1. Check for loose equipment which may become a hazardous projectile</li><li>2. Check for items which though still attached may have been bounced or jolted loose<ol style="list-style-type: none"><li>a. Hand tools</li><li>b. Fire extinguisher</li><li>c. Pre-connected hoses and nozzles</li></ol></li><li>3. Check for lug nuts which have loosened or are missing</li><li>4. Look for tire damage</li><li>5. Look for objects which may have become lodged between the duals<ol style="list-style-type: none"><li>a. A dull rythmic "thudding" sound may indicate an object is caught between the duals</li></ol></li></ol> <p><b>II. REMOVAL OF OBJECTS LODGED BETWEEN DUALS</b></p> <p>A. Prior to using any of these methods, ensure that:</p> <ol style="list-style-type: none"><li>1. Ignition is <b>"off"</b></li><li>2. The vehicle is properly parked<ol style="list-style-type: none"><li>a. Automatic transmission in neutral</li></ol></li></ol>	



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<ul style="list-style-type: none"><li>b. Manual transmission in first or reverse</li><li>c. Spring brake set</li><li>d. Chocks in place<ul style="list-style-type: none"><li>(1) Per CAL FIRE policy</li></ul></li></ul> <p>B. Methods</p> <ul style="list-style-type: none"><li>1. Attempt to dislodge the object by reaching a hand and arm in and pulling the object out<ul style="list-style-type: none"><li>a. Wear gloves</li><li>b. Wear eye protection</li></ul></li><li>2. Attempt to dislodge the object using a pry bar manipulated by hand<ul style="list-style-type: none"><li>a. Anchor bar above the object and below wheels</li><li>b. Do not strain back</li></ul></li><li>3. Attempt to dislodge the object by positioning a pry bar on a diagonal line<ul style="list-style-type: none"><li>a. From a point between the rock and the axle housing</li><li>b. To a point on the ground behind the duals</li></ul></li></ul>	<p>Information sheet #1</p> <p>Caution: Proper control and supervision must be exercised. There exists the potential that the rock may come out suddenly and with great velocity.</p>



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<ul style="list-style-type: none"><li>c. Once pry bar is in position<ul style="list-style-type: none"><li>(1) Start engine</li><li>(2) Remove chock blocks</li><li>(3) Release spring brake</li><li>(4) Place transmission in reverse</li><li>(5) Position lookout to check progress and assess damage potential</li><li>(6) Slowly back engine until<ul style="list-style-type: none"><li>(a) Object is dislodged</li><li>(b) Pry bar is ready to bend or</li><li>(c) Vehicle is in jeopardy of being damaged</li></ul></li></ul></li><li>4. Attempt to dislodge the object by<ul style="list-style-type: none"><li>a. Placing one end of a chain under the front tire</li><li>b. Position lodged object<ul style="list-style-type: none"><li>(1) At 3:00 position when facing tire</li></ul></li><li>c. Wrapping and hooking the other end of the chain around the object to be dislodged then<ul style="list-style-type: none"><li>(1) Start the engine</li><li>(2) Remove chock blocks</li><li>(3) Use back up person</li><li>(4) Use lookout to check progress and assess damage potential</li></ul></li></ul></li></ul>	



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<ul style="list-style-type: none"><li>(5) Place transmission in reverse gear</li><li>(6) Release spring brake</li><li>(7) Slowly drive backwards until<ul style="list-style-type: none"><li>(a) Object is dislodged</li><li>(b) Tire damage appears imminent</li></ul></li><li>5. Dislodge the object by removing the outside dual tire<ul style="list-style-type: none"><li>a. Attempt only with proper tire changing tools</li></ul></li><li>C. Inspect tire for damage once object is removed and prior to operating the engine</li></ul>	



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### **SUMMARY:**

Removal of objects lodged between dual tires can be easily accomplished with minimal effort. Failure to remove an object can have disastrous consequences. Always inspect duals prior to returning to highway operations.

### **EVALUATION:**

A written quiz.

### **ASSIGNMENT:**

To be determined by instructor(s).