

NASSAU COUNTY FIRE SERVICE ACADEMY



VEHICLE FIRES



VEHICLE FIRES

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COURSE OBJECTIVES

- **Identify and Describe 3 categories of vehicle fires.**
- **Describe 4 major dangers of vehicle fires.**
- **Fire Suppression Strategy.**

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3 Types of Vehicle Fires

Passenger
Compartment

Underhood

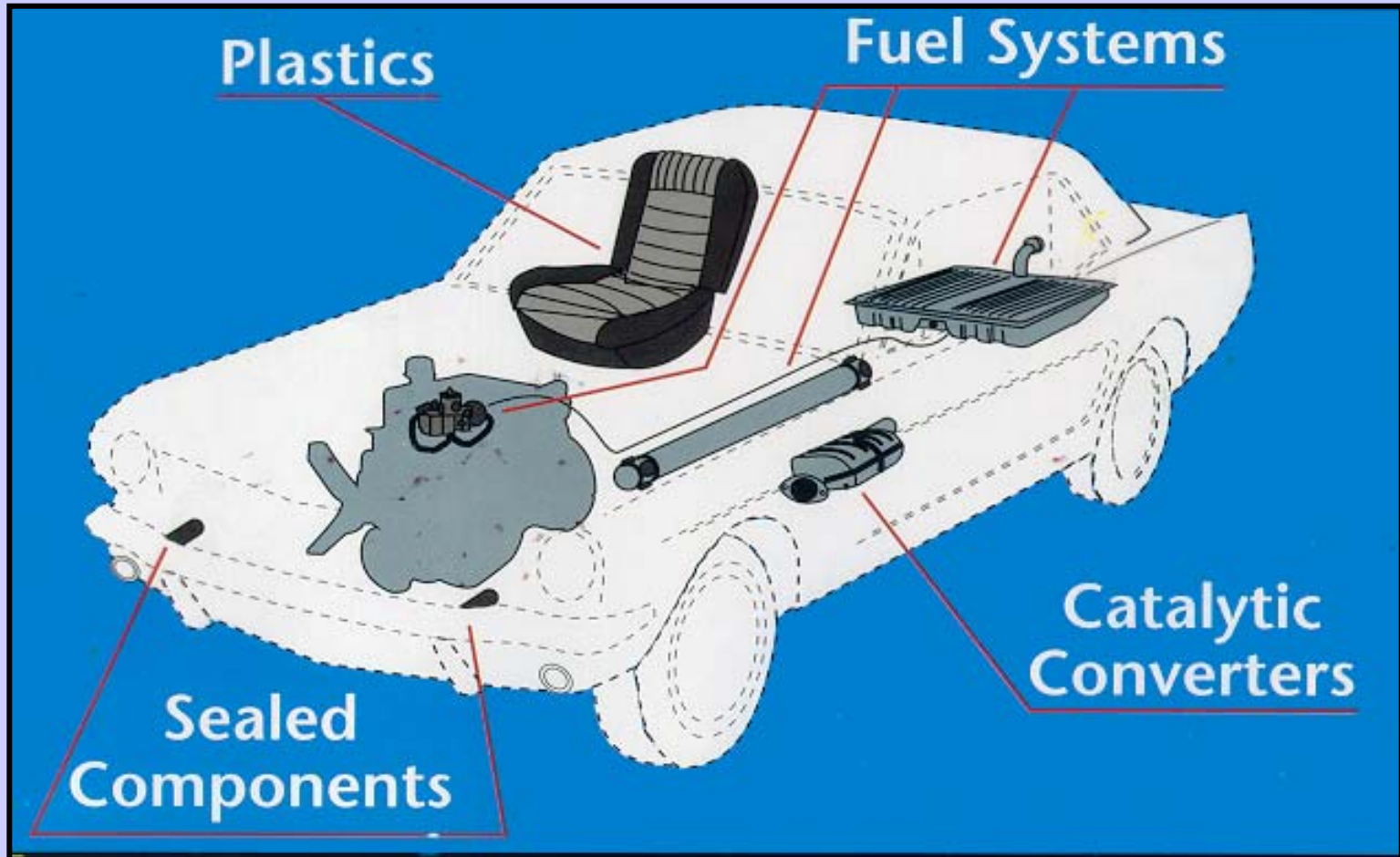


Undercarriage

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4 Major Dangers of Vehicle Fires



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SPECIFIC VEHICLE HAZARDS

- **FRONT & REAR BUMPERS**

SHOCK ABSORBING BUMPERS

- **TIRES**

- **AIR BAGS**

- **GAS CHARGED STRUTS**

- **L.P.G. (OZ-12) *REFRIGERANT GAS***

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ALTERNATIVE FUELS

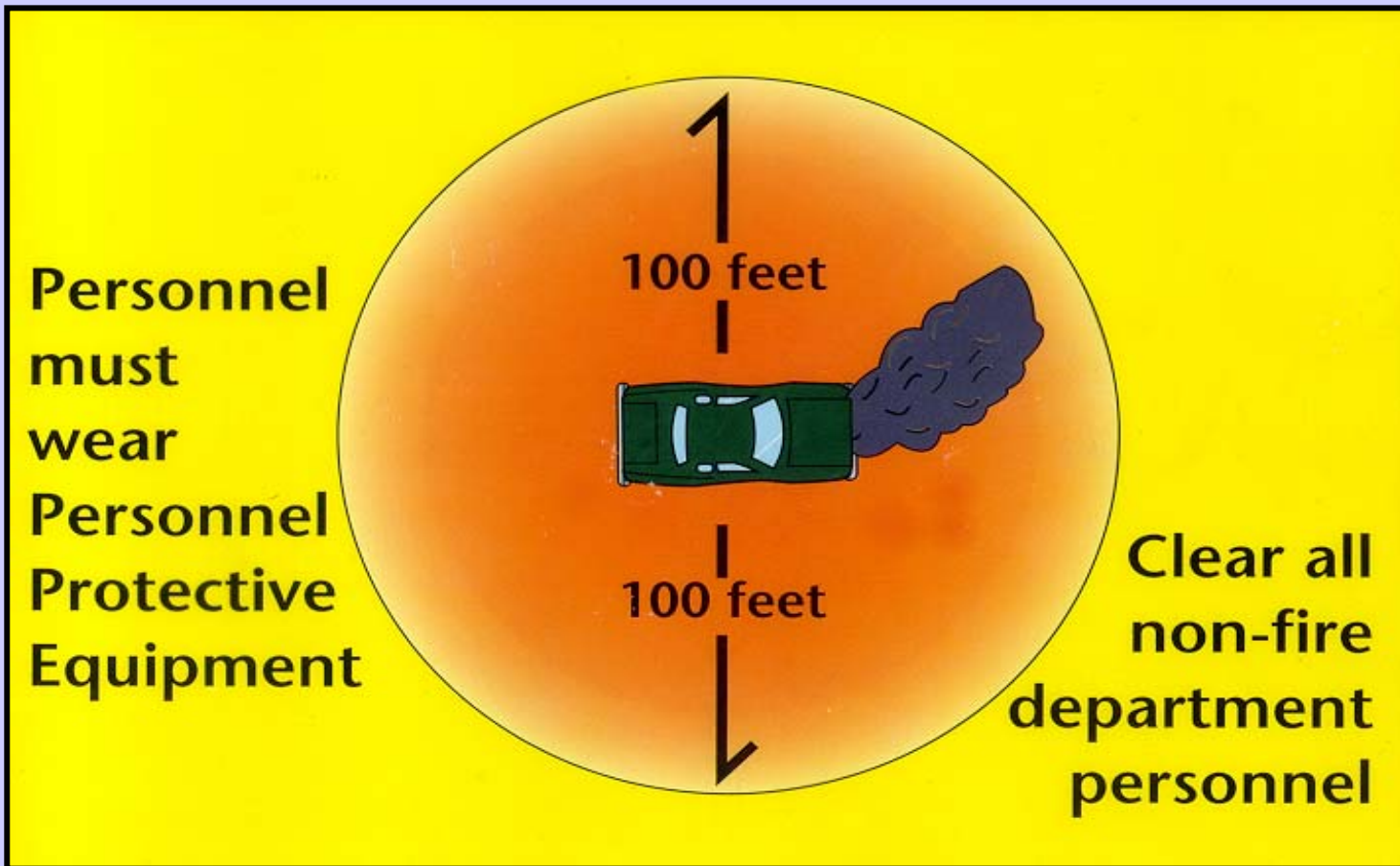
- **Propane (LPG)**
- **Compressed Natural Gas (CNG)**
- **Liquefied Natural Gas (LNG)**
- **Electric Vehicles**
- **Alcohol**

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DANGER ZONE



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BASIC STEPS

- Size-Up
- Rescue
- Exposure Protection
- Confinement
- Extinguishment
- Overhaul
- Salvage
- Ventilation



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COMMON SIZE UP FACTORS

- **LOCATION**
- **OCCUPANTS**
- **CONTENTS**
- **EXPOSURERS**
- **VEHICLE CONSTRUCTION**
- **WATER SUPPLY**

VEHICLE FIRES



CONTENTS

- **HAZ-MAT CONCERNS**

FUELS / OIL / ANTI-FREEZE

PROPANE CYLINDERS

GAS CANS / FERTILIZERS

INSECTISIDES

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CONTENTS

- **GROCERY & HOUSEHOLD ITEMS**
- **COMMON DELIVERY VEHICLE'S**
U.P.S. , FED-EX, etc..
- **UNKOWN HAZARDS IN TRANSIT**

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EXPOSURERS

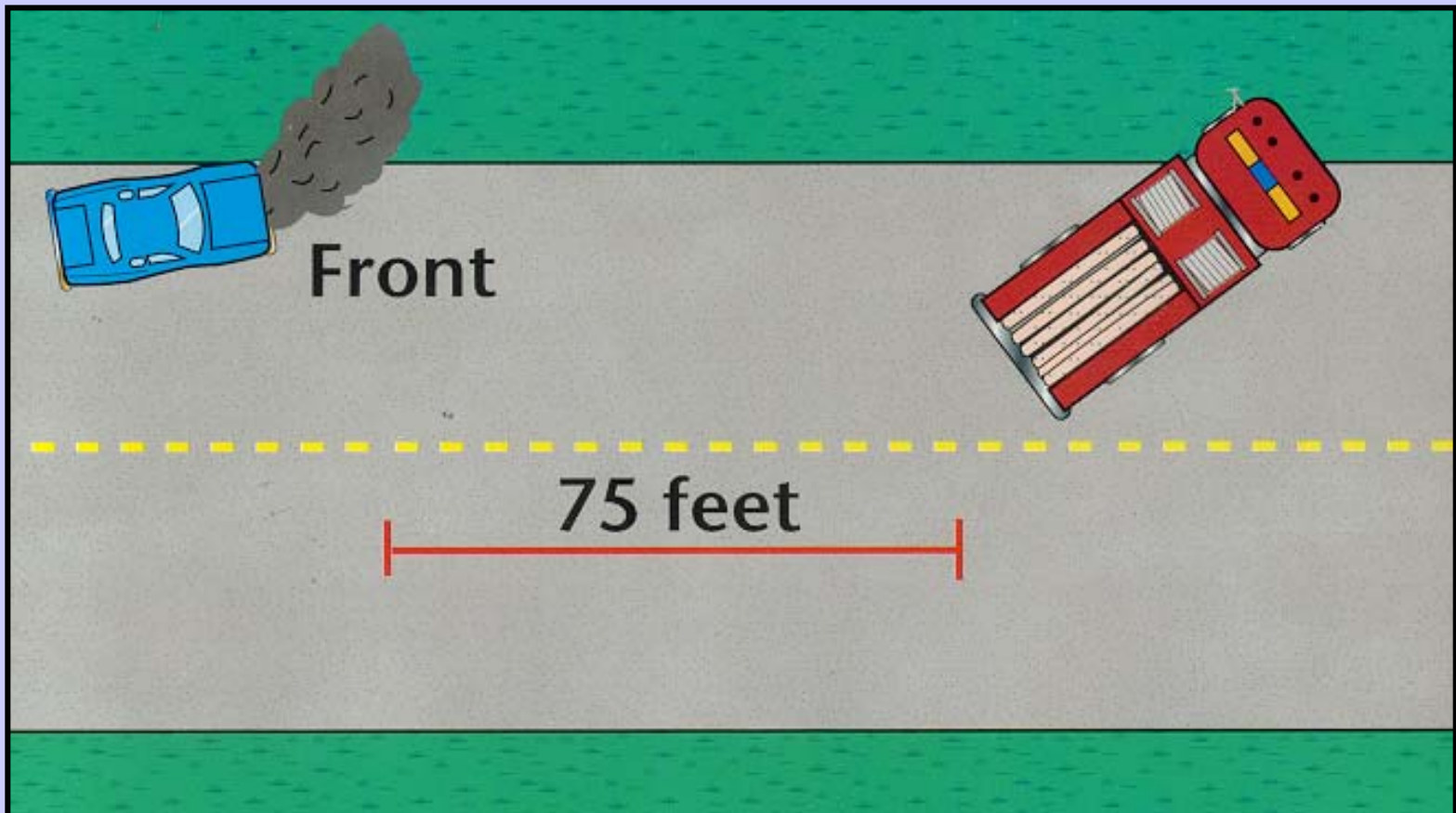
- **ADJACENT PARKED VEHICLES**
- **COMMERCIAL PARKING GARAGES**
- **ATTACHED RESIDENTIAL GARAGES**
- **BELOW GRADE PARKING GARAGES**

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APPARATUS PLACEMENT

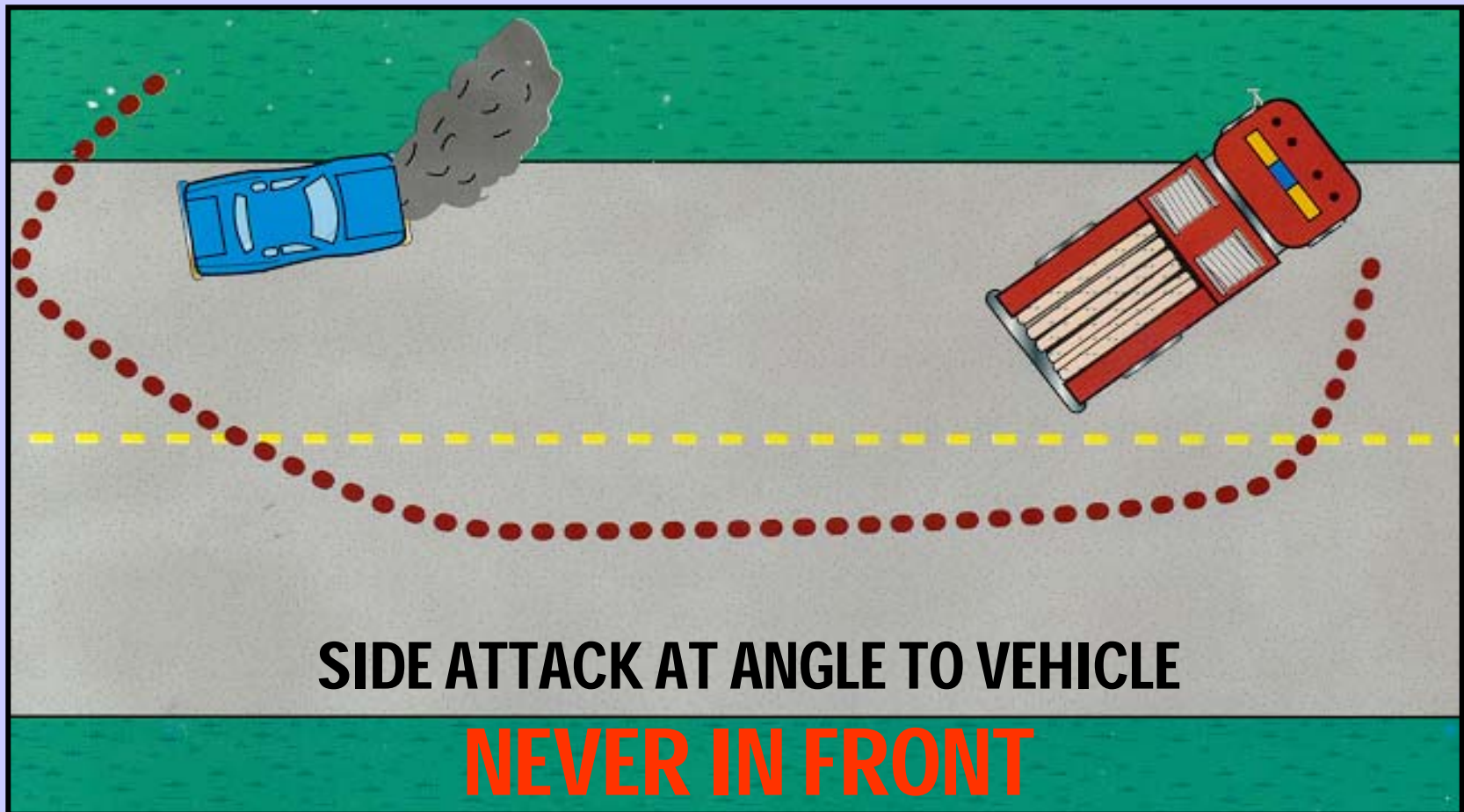


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OFFICER'S SIZE - UP



SIDE ATTACK AT ANGLE TO VEHICLE

NEVER IN FRONT

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TYPICAL VEHICLE TYPES

- **PASSENGER CARS**
- **VANS**
- **S.U.V.**
- **BUSES**
- **TRACTOR TRAILERS**

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SIZE - UP

SIZE UP IS CONTINUOUS

**BE PREPARED TO CHANGE
YOUR STRATEGY**

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OCCUPANTS

- **LIFE HAZARD**
- **PRIMARY SEARCH NECESSARY ?**
- **TRAPPED OCCUPANTS/INJURIES**
NEED FOR RESCUE/EMS

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OTHER FACTORS

- **CONSTRUCTION**

FIBERGLASS, CLASS D METALS

- **WATER SUPPLY**

TANK OR HYDRANT SUPPLY

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FUEL TANK LOCATION

Rear Tank



Front Tank



Rear Side
In The Cab

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CARDINAL RULE

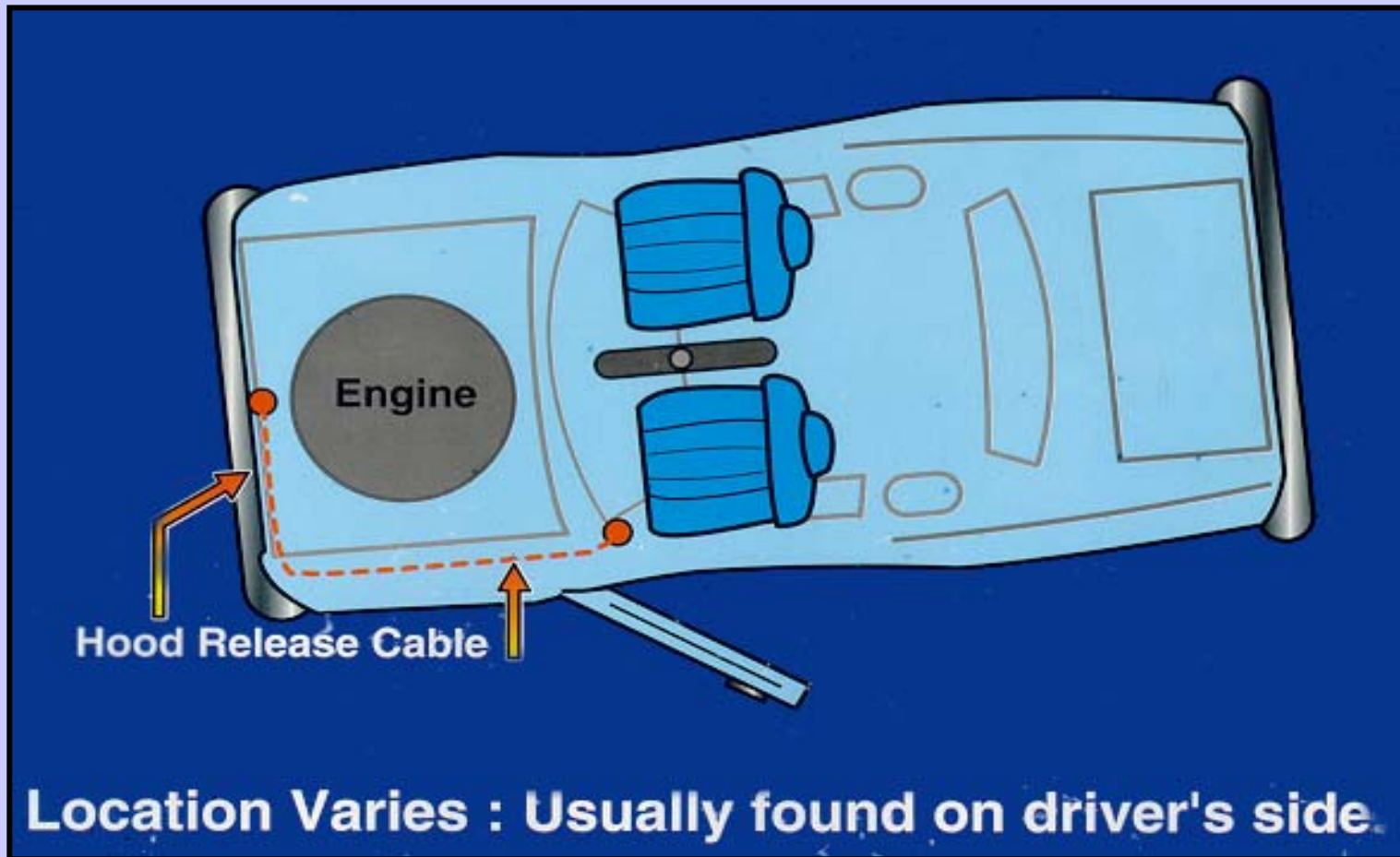
**TRY BEFORE
YOU PRY !!**

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CABLE HOOD RELEASE

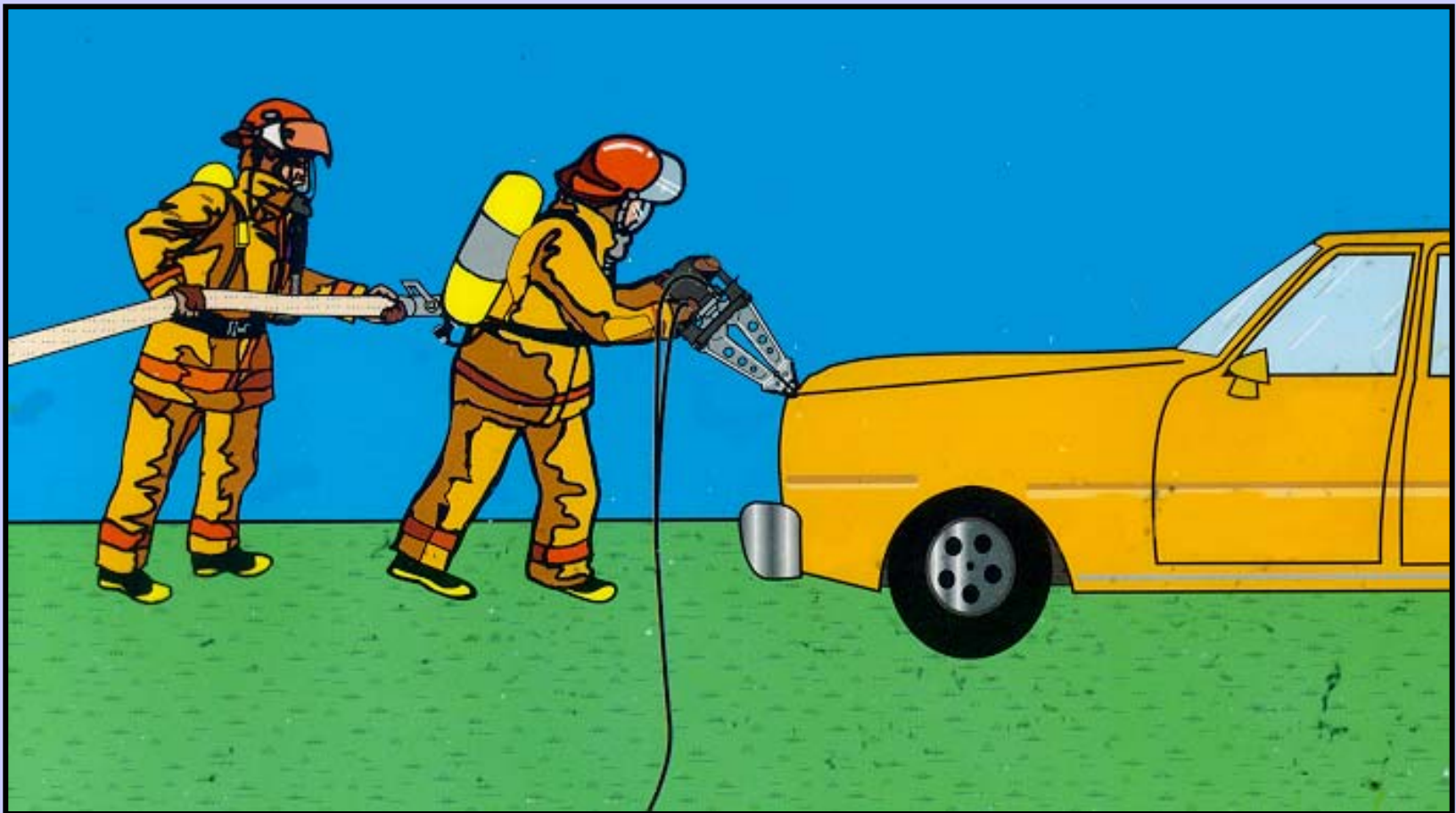


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SPREADER

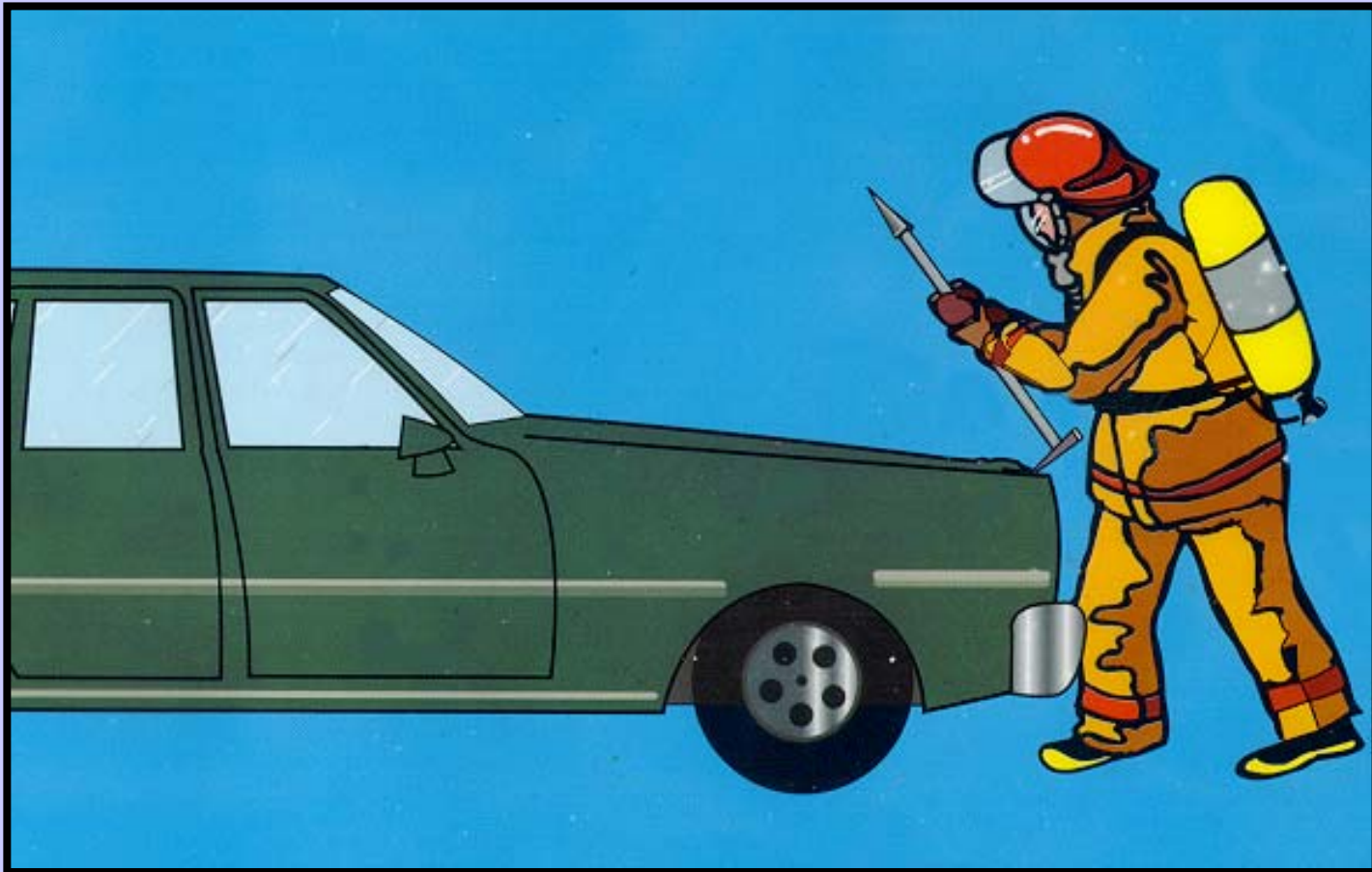


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BRUTE FORCE METHOD

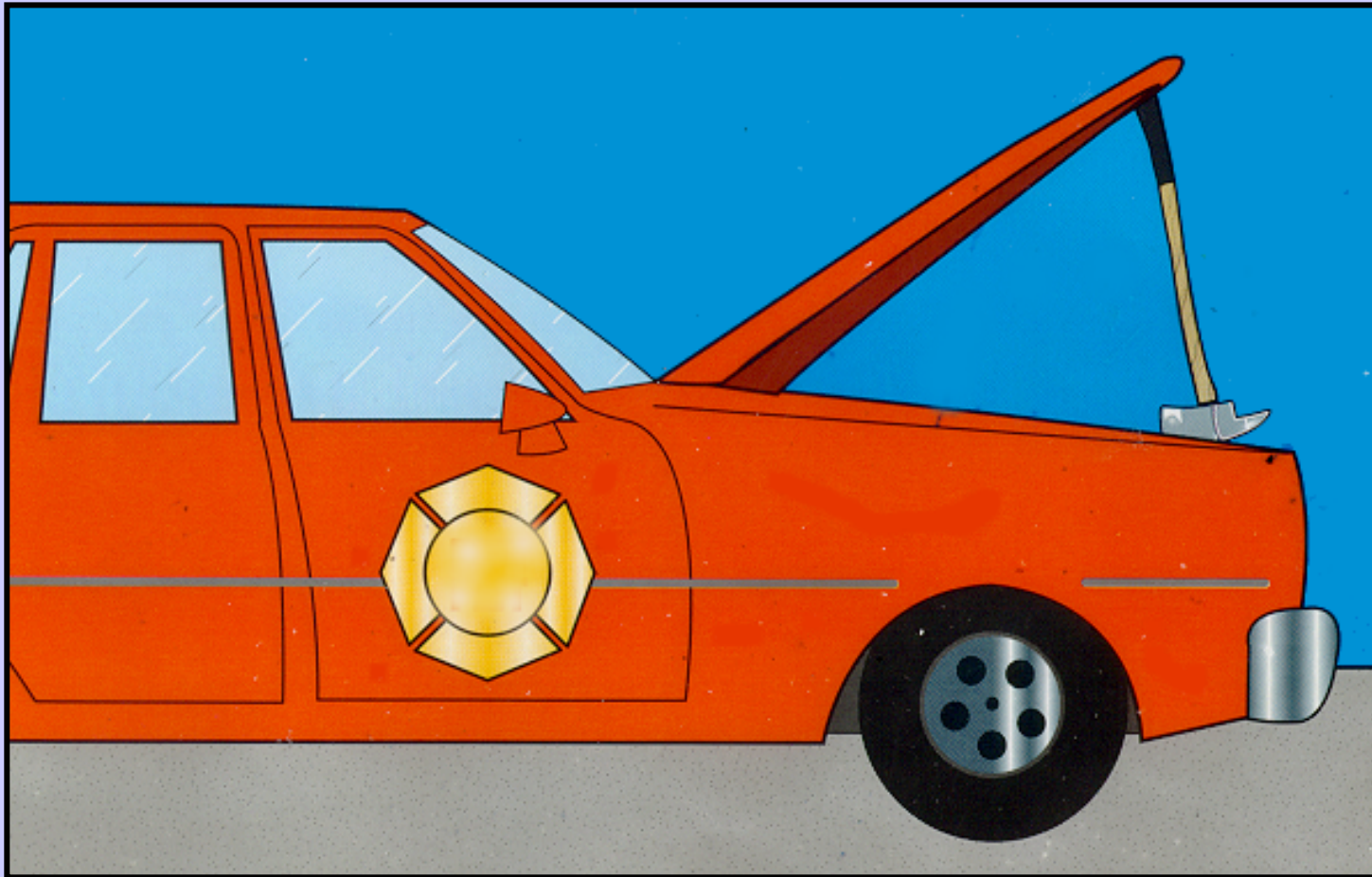


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PROP HOOD OPEN

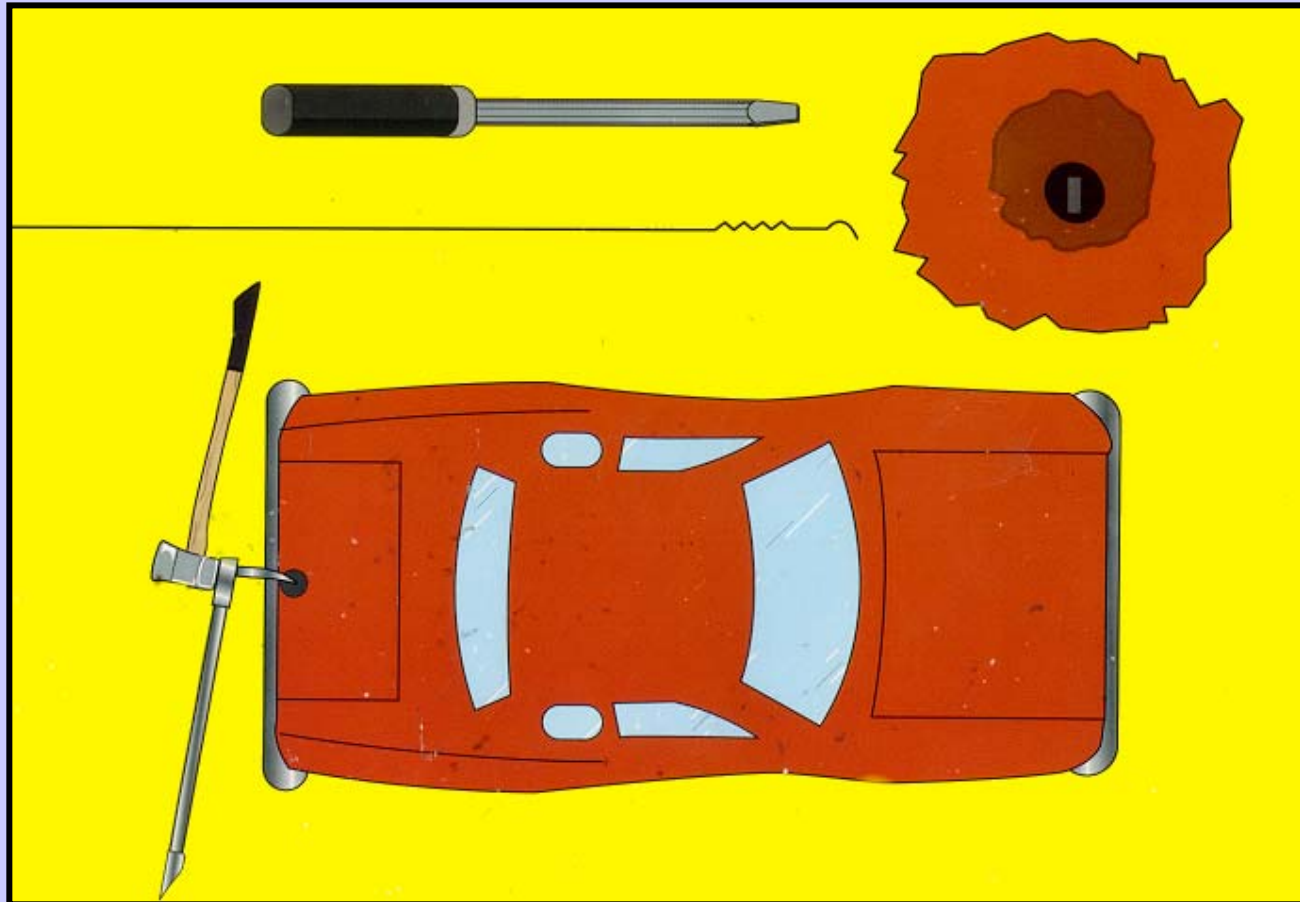


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OPENING TRUNKS

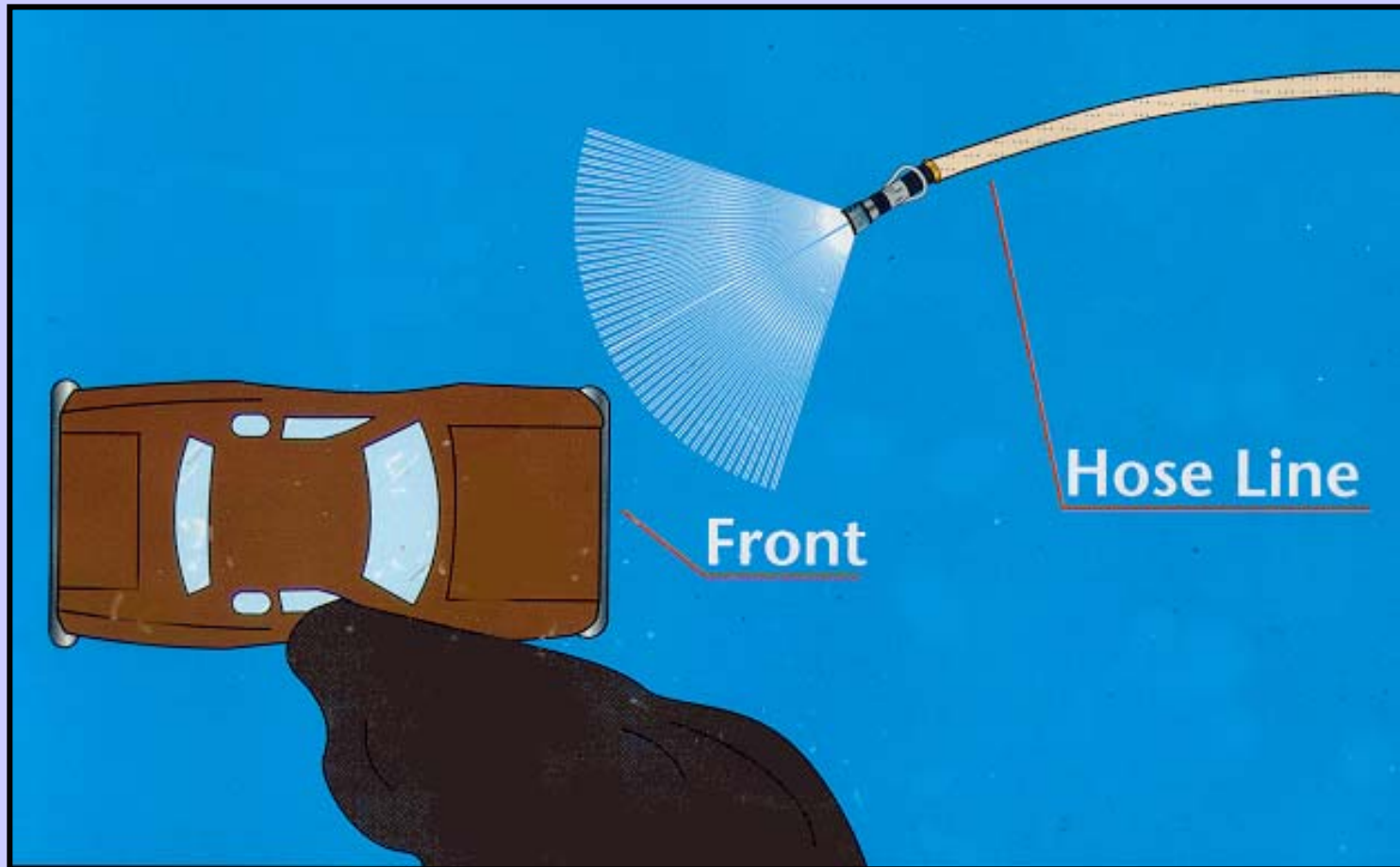


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ATTACK PATTERNS

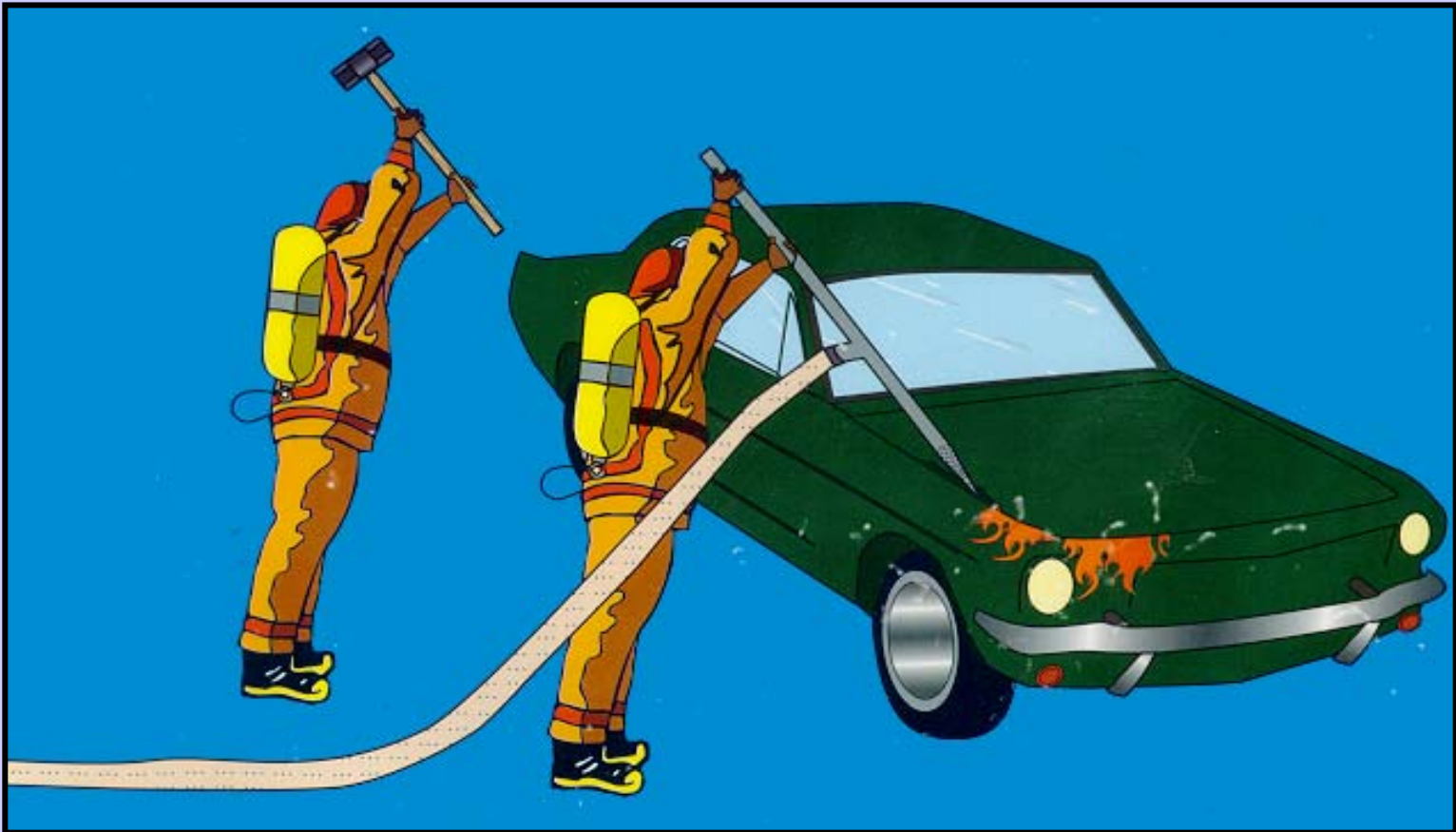


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PIERCING NOZZLE



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MAKE AN OPENING

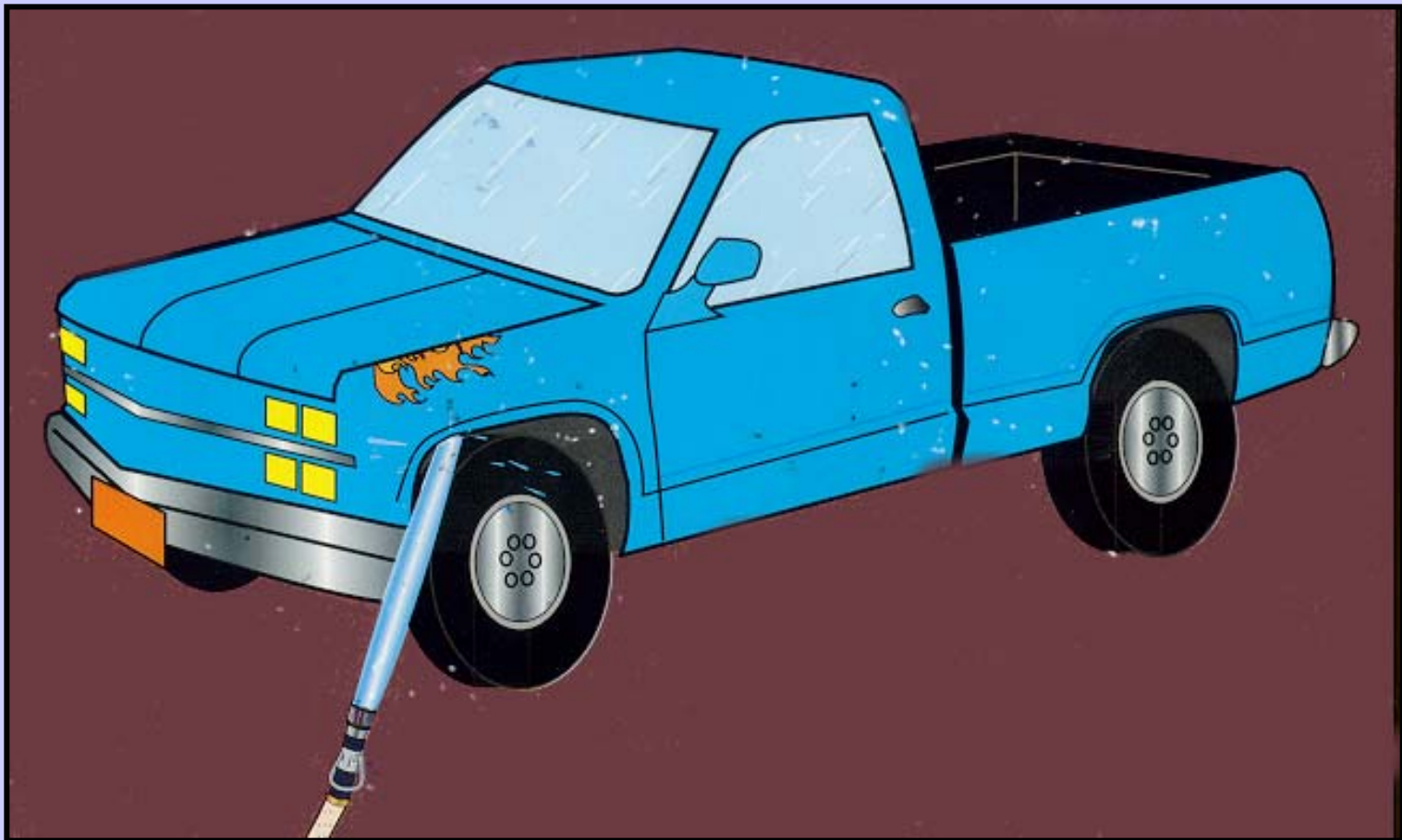


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THROUGH THE FENDER WELL

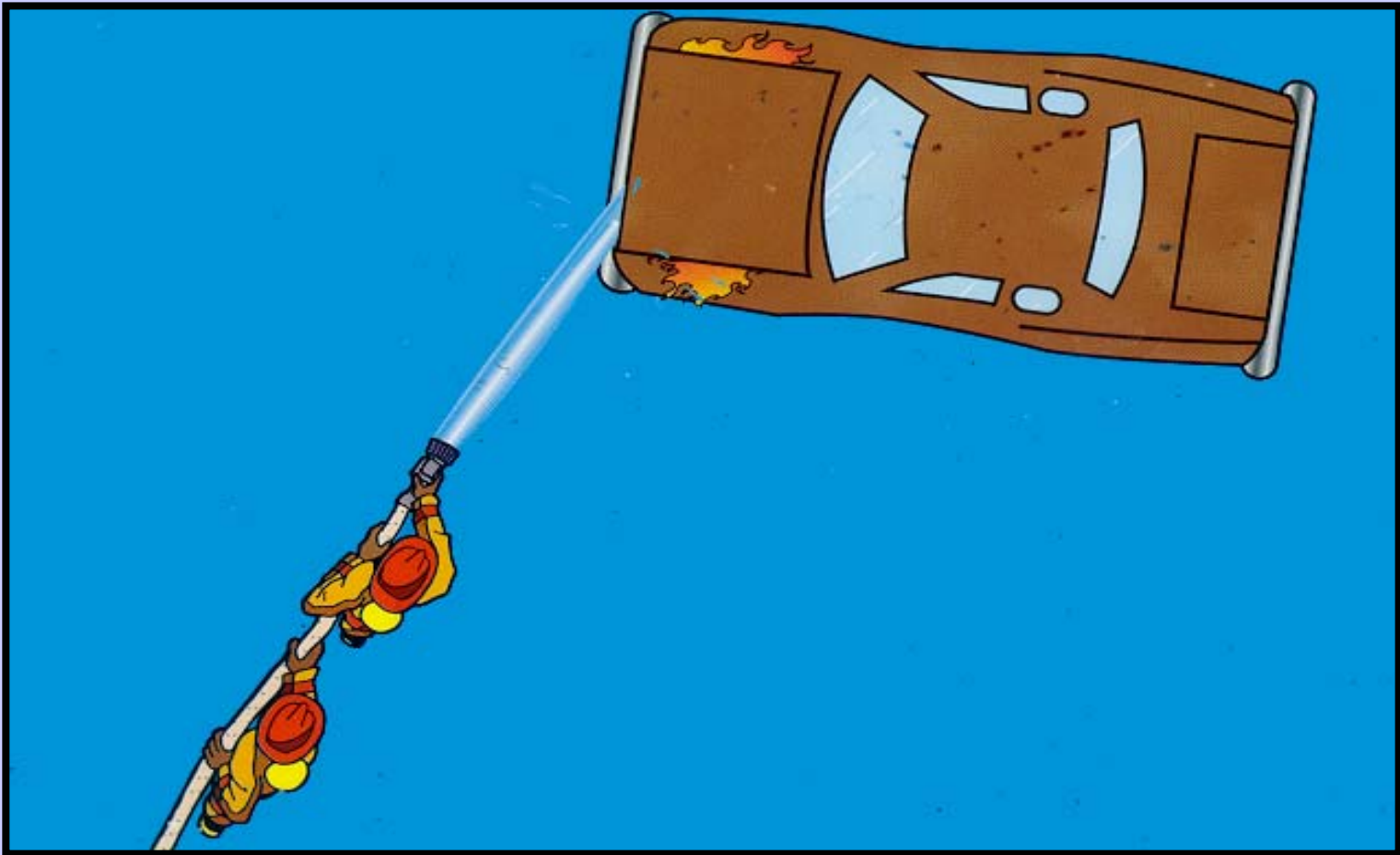


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THROUGH THE RADIATOR



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**"OH! IT'S ONLY A
VEHICLE FIRE!"
- THINK & ACT SAFE-**

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