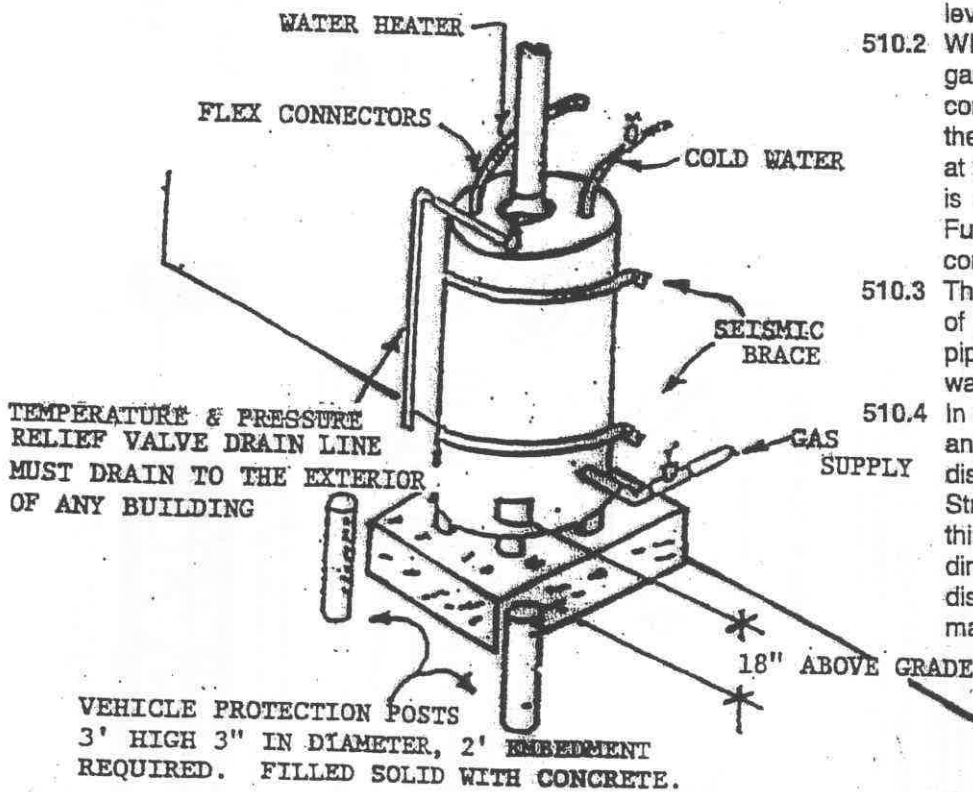


## CITY OF CYPRESS

### GARAGE WATER HEATER INSTALLATION REQUIREMENTS Per 2001 California Plumbing Code

TYPICAL GARAGE INSTALLATION  
SHOWN BELOW



#### Additional Information & Requirements

1. Lever action Gas Valve required.
2. Seismic Bracing is required.
3. Temperature and Pressure Relief drain line must be made from hard copper or galvanized pipe.
4. See Chapter 6 of 2001 CPC, Section 608.5, and Section 510.1 thru 510.5.

#### 510.0 Protection from Damage

510.1 Water heaters generating a glow, spark or flame capable of igniting flammable vapors may be installed in a garage, provided the pilots, burners or heating elements and switches are at least eighteen (18) inches (457mm) above the floor level.

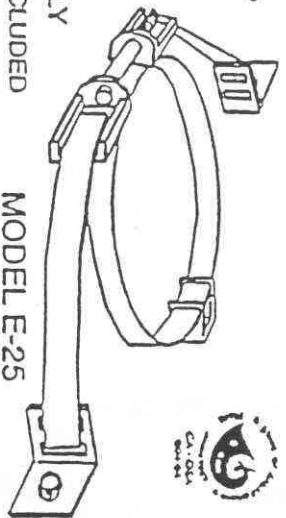
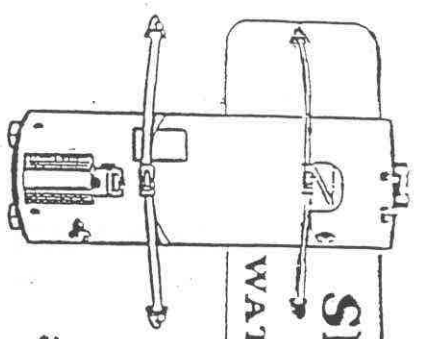
510.2 Where such water heaters installed within a garage are enclosed in a separate, approved compartment having access only from outside of the garage, such water heaters may be installed at floor level provided the required combustion air is also taken from the exterior of the garage. Fuel burning water heaters having sealed combustion chambers need not be elevated.

510.3 The Administrative Authority may require the use of an approved dielectric insulator on the water piping connections of water heaters and related water heating equipment.

510.4 In seismic zones 3 and 4, water heaters shall be anchored or strapped to resist horizontal displacement due to earthquake motion. Strapping shall be at points within the upper one-third (1/3) and lower one-third (1/3) of its vertical dimensions. At the lower point, a minimum distance of four (4) inches (102 mm) shall be maintained above the controls with the strapping.

608.5 Relief valves located inside a building shall be provided with a drain, not smaller than the relief valve outlet, of galvanized steel, hard drawn copper piping and fittings, CPVC, or listed relief valve drain tube with fittings which will not reduce the internal bore of the pipe or tubing (straight lengths as opposed to coils) and shall extend from the valve to the outside of the building with the end of the pipe not more than two (2) feet (610 mm) nor less than six (6) inches (152 mm) above the ground or the flood level of the area receiving the discharge and pointing downward. Such drains may terminate at other approved locations. No part of such drain pipe shall be trapped or subject to freezing. The terminal end of the drain pipe shall not be threaded.

# SPACEMAKER -DOUBLE- WATER HEATER STRAPS



- ASSEMBLES QUICKLY
- ALL FASTENERS INCLUDED
- COMPLIES WITH 1994 CODE\*
- NO SPECIAL TOOLS NEEDED
- FOR UP TO 55 GALLON HEATERS
- HEAVY GALVANIZED STEEL CONSTRUCTION
- ALSO RECOMMENDED FOR R-16 WATER HEATERS

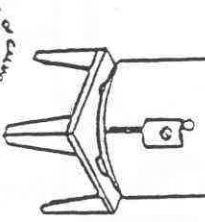
\*The E-25 features the same last tensioning buckles that are used in the popular SpaceMaker E-50 Restraints!

The State Legislators have required per AB 1890, that all water heaters installed, either new or replacement, must be braced, anchored, or strapped to resist falling or horizontal displacement due to earthquake motion.

The City of Cypress requires that the bracing be done using a SpaceMaker E-25 system for all water heaters up to 55 gallons OR TWO SpaceMaker E-50's for all water heaters up to 100 gallons.

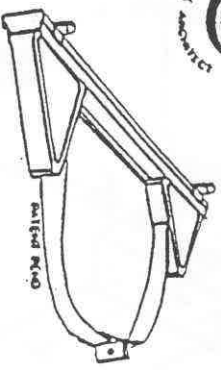
These restraints must be attached, to the existing wall studs, one 9" from the top of the water heater and the second 4" above the controls.

# THE NEW 'STATE ACCEPTABLE' SPACEMAKER WATER HEATER SEISMIC RESTRAINTS

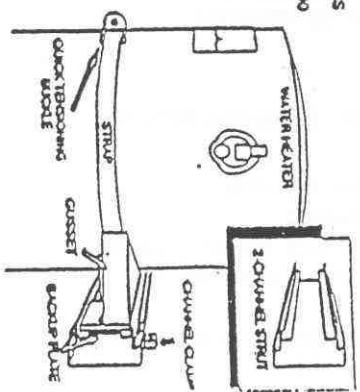


- IMMEDIATELY ADAPTS TO ANY STUD CONFIGURATION
- ACCOMMODATES UP TO 100 GALLON WATER HEATERS
- FITS INTO SMALL CABINETS AND CRAMPED SPACES
- EXCLUSIVE EASY TENSIONING BUCKLES
- ASSEMBLES IN MINUTES
- COMPLIES WITH AB 1890

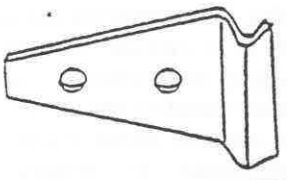
"The fully engineered and tested restraint system adapts to virtually all installation situations."



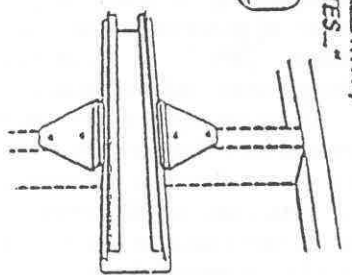
COMPLETE RESTRAINT



"FOR THE OCCASIONAL SINGLE STUD INSTALLATION, CARRY A CASE OF SE-50 MOUNTING PLATES..."



- ALLOW ATTACHMENT OF SE-50 SEISMIC RESTRAINTS WHILE ONLY ONE STUD IS AVAILABLE BEHIND THE WATER HEATER.
- FOR CLOSE CABINETS AND OUTSIDE WATER HEATER ENCLOSURES
  - NO SPECIAL TOOLS OR FASTENERS ARE REQUIRED
  - QUICKLY ATTACHES TO SPACEMAKER STRUT SYSTEM
  - USES FASTENERS ALREADY PROVIDED IN SPACEMAKER E-50 PACKAGES



If you wish to use another type of seismic restraint, you must submit documentation to show it has equal or better restraint value.

If you have any questions, please contact the Building Division at (714) 229-6730.