

# 6.2L WATER IN FUEL DETECTOR DIAGNOSIS

## OPERATION

### WATER IN FUEL LIGHT ON AT ALL TIMES

With ignition on disconnect 2 wire connector at rear of fuel tank and check water in fuel light.

LIGHT ON

Locate and repair short to ground in yel/blk wire from 2 wire connector to IP water in fuel lamp.

LIGHT OFF

Drain fuel tank per draining instructions. Connect 2 wire connector and check water in fuel light.

LIGHT ON

Remove tank unit. Check wires for short circuits. If OK, replace detector.

LIGHT OFF

Normal - fuel had water in it.

The Diesel "Water in Fuel" system uses an electronic water detector mounted inside the fuel tank on the fuel gage sender. The detector will warn the driver when 1 - 2½ gallons of water are present in the fuel tank by lighting a "Water in Fuel" light on the instrument panel. The light will also come on for 2-5 seconds each time the ignition is turned on. This bulb check assures the driver the light is working. If there is water in the fuel, the light will come back on after a 3-6 second off delay, and then remain on.

### WATER IN FUEL LIGHT DOES NOT COME ON DURING BULB CHECK

With ignition on disconnect 2 wire connector at rear of fuel tank and ground the yel/blk wire in the body harness. Check water in fuel light.

LIGHT ON

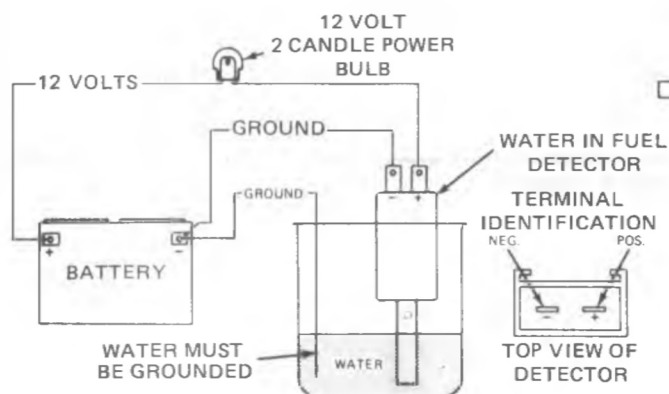
Remove fuel gage tank unit and check yellow wire for opens. Check connections to water in fuel detector and mounting screw - must be tight. If OK, replace water in fuel detector.

LIGHT OFF

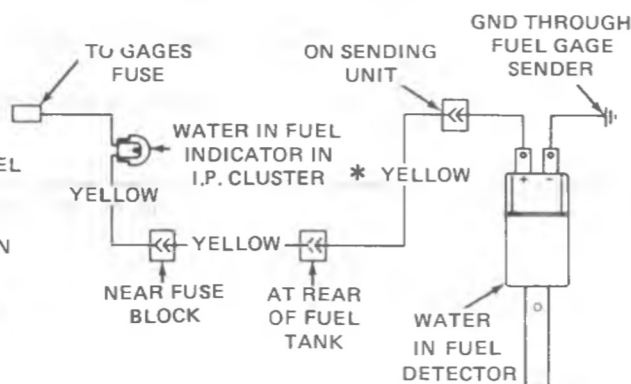
Check water in fuel bulb. If OK, check for open circuit in yellow wire from 2 wire connector at rear of tank to IP water in fuel lamp socket.

### TESTING WATER IN FUEL DETECTOR

Connect water in fuel detector as shown using a 12V 2-C.P. bulb. There must be a ground circuit to the water for the detector to work. The light will turn on for 2-5 seconds then dim out. It will then turn back on (after 3-6 second delay) when about 3/8" of the detector probe is in the water. Refer to illustration for test set-up.



TEST SET-UP



WATER IN FUEL DETECTOR  
CIRCUIT

Fig. 6C-10a--Water In Fuel Detector