4. **Feed the Sensors into the Junction Box:** Feed the wire ends of the probe sensors into the compression fittings at the junction box and pull through the excess tubing. Be sure to leave enough extra tubing between the junction box and the cap so when the cap is slipped over the half nipple the tubing reaches the junction box.

5. **Cut Probe Tubing:** Mark the tubing at the appropriate length to reach the junction box fittings. Using a tubing cutter, cut only the tubing and not the enclosed wires. Insert the wire ends back into the compression fittings and feed into the junction box until the tubing is inside the junction box. Tighten the compression nuts on the compression fittings.
6. **Cut Probe Wires:** Cut and strip the sensor wires in the junction box for splicing to the wiring from the DMS Leak Detection Panel.

7. **Connect Sensor Wires to Panel Wires:** See panel instructions for wiring terminal numbers.

8. **Probe System Test:** With the power applied to the control system and the probes not activated, the normal light should be illuminated continuously. To test the DFP-25 fuel probe, unscrew the tip of the probe. The audible alarm should sound, the normal light should turn off and the warning light should illuminate. [Depressing the fuel check button should deactivate the warning condition. Releasing the button should cause the alarm to return]. Connecting the tip to the probe should return the alarm condition to normal. To test the DWP-25 water probe, immerse the probe tip in a cup of water. The audible alarm should sound, the normal light should turn off and the warning light should illuminate. [Depressing the water check button should deactivate the warning condition. Releasing the button should cause the alarm to return]. Removing the probe from the cup of water should return the alarm condition to normal. Note: [ ] pertains to units with fuel/water check buttons only.

9. **Feed the Probe Sensors into the Tank:** Loosen the compression nuts on the compression fittings of the DSC-24A cap. The DFP-25 and DWP-25 probe sensors should be fed down the opposite sides of the tank’s annular space. To feed the DFP-25 and DWP-25 probe sensors into the annular space, put a slight bend in the sheathing at the tube to sensor connection. The flexible tubing will adjust to the contour of the tank wall. Feed the probe sensors into the annular space until the probe depth markings are level with the tank fitting, not the top of the riser pipe.

10. **Complete Installation:** Slip DSC-24A cap over the half nipple. Tighten compression nuts (see figure 2-2).

**Repeat Probe System Test at least once per year.**

---

**Note:** DFP-25 fuel probe sensor must be replaced after detection of hydrocarbon. It is designed for a 1 time use only. Please contact Gems Sensors for replacement.

**Caution:** All sensor, access fittings and wiring must remain accessible after tank installation. Use of riser pipes, manways and manhole covers may be required. Contact factory for technical assistance.

---

**Gems Sensors Inc.**  
One Cowles Road  
Plainville, CT  06062-1198  
Tel:   860-793-4579  
Fax:  860-793-4580