test the ohm meter used must be capable of reading up to 2,000,000 ohms.

sensor from it's bracket on the base ring of the water heater and disconnect both wires to the sensor. Take a resistance reading between the two wiring terminals of the FV sensor and note the resistance value.

Service Note: Unless the ohm meter used has an auto-range feature the resistance should be checked twice. The first reading will be taken using an ohms scale above 1,700,000 ohms. The second reading is taken using an ohms scale just above 5,000 ohms.

4 If resistance of the FV sensor is lower than 5,000 ohms - replace the FV sensor.

5 If resistance of the FV sensor is above 1,700,000 ohms - replace the FV sensor.

6 If the resistance of the FV sensor is above 5,000 ohms and lower than 1,700,000 ohms and all the above steps have been performed - ensure the wiring and plug between the sensor and the Intelli-Vent™ control are not damaged or worn - replace the ignitor assembly if the wiring and/or plug are damaged/worn.

If the wiring and plug are in good condition - replace the Intelli-Vent™ control valve

Flammable Vapor Sensor Location / Testing