FINAL GAS SYSTEM TEST
Code Reference ANSI A119.2 2002 Edition Paragraph 5.4.18.2

This test is designed to test the fittings not tested in the pre-appliance test. This test is performed with all connections in the piping system completed including the attachment to the appliances. There are two acceptable test methods as follows:

A. PRESSURE DROP TEST:

This test method is often referred to as the "alternate test method" or "pressure drop test." Two common methods (see below) are prevalent for performing this test. One test method uses a gauge installed at the range, while the other uses a gauge built into a test apparatus installed at the source of pressure.

TEST METHOD 1: TESTING WITH A GAUGE INSTALLED AT THE RANGE

STEP 1:

Attach a test gauge to a range spud. This is usually accomplished by removing a range burner, and using a gauge with a connection tube that pushes on to the spud fitting where the burner was removed. The gauge must be calibrated in minimum increments of 1/2 oz. or 1" of water column. Proper test equipment is essential to performing an accurate test. Test equipment gauges must be in good condition (e.g. returning to 0, cover in place and straight needles).

STEP 2:

Pressurize the entire system to 10-14 in. water column (6-8 oz./sq.in.) and be sure it has equalized throughout the system. Shut off the source of pressure to the system.

STEP 3:

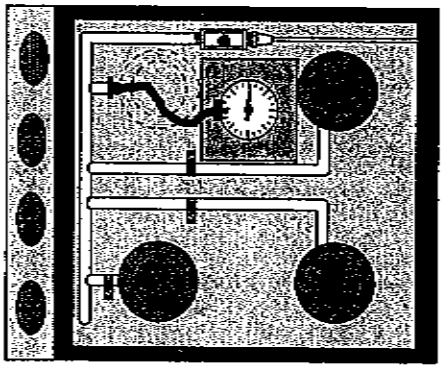
While carefully monitoring the gauge at the range, open a range burner and reduce the pressure in the system to 9" water column(+ or - 0.5"). This prevents the appliance regulator from becoming a factor in the test.

STEP 4:

Monitor the test for a minimum test period of 3 minutes, no pressure drop should be detected. If a pressure drop is noted, locate and repair the leak and retest until a successful test is obtained.

STEP 5:

After a successful test has been performed, the QC check list shall be signed (full signature) by the test personnel.



TEST METHOD 2: USING TEST EQUIPMENT AT THE PRESSURE SOURCE

STEP 1:

Disconnect the flexible hose from the RV regulator and connect a test apparatus similar to the one shown below and reattach to the system.

STEP 2:

Pressurize the system to 10 - 14 in. water column(6-8 oz./sq.in.) and be sure the pressure is equalized within the entire system.

STEP 3:

Shut off the pressure source by closing the shutoff valve on the test apparatus that is downstream of the test apparatus regulator.

STEP 4:

Monitor the test for a minimum test period of three minutes, no pressure drop should be detected. The gauge used must be calibrated in minimum of 1/2 ounce or 1" water column increments, and must be in good condition (e.g., needle returns to zero, cover in place and needle straight).

STEP 5:

After a successful test has been performed, the QC check list shall be signed (full signature) by the test personnel.

Equipment such as that shown below may be used for this test: