

How to Install Gas Stove

Required Tools for this Project

Have the necessary tools for this DIY project lined up before you start—you'll save time and frustration.

- 4-in-1 screwdriver
- Adjustable wrench
- Pipe wrench
- Rags

Required Materials for this Project

Avoid last-minute shopping trips by having all your materials ready ahead of time. Here's a list.

- Yellow teflon tape
- Leak detector
- Flexible gas line
- Black iron pipe and fittings
- Gas cock
- End connector fittings

Steps:



Photo 1: Pull out the range

Pull out the range, and shut off the gas cock (see also Photo 2). The gas is off when the lever is at a right angle to the pipe. This shutoff may be located behind the range, or in the basement just below. A shutoff is required in the line to the range, and should be added if you don't have one.



Photo 2: Wrap the pipe threads

Wrap Teflon pipe-joint tape twice around the threads in the same direction that the fitting screws on (clockwise). Yellow Teflon tape, heavier than white, is meant for gas fittings. The 1/2-in. x 3/4-in. coupling accommodates the 3/4-in. end connector fitting (Photo 3), since connectors with 1/2-in. end fittings at both ends are not always readily available.



Photo 3: Screw the connector to the gas line

Remove the end connector fitting, wrap the unbeveled end with Teflon tape, and screw it to the gas line. This end fitting can be either male or female. ALWAYS use both of the removable end fittings. NEVER screw the connector nuts that are on the ends of the corrugated tube to a black gas fitting or pipe. This would be a guaranteed leak.



Photo 4: Use a street elbow

Screw a 1/2-in. x 1/2-in. street elbow (male threads at one end, female at the other) into the range gas port. Then screw the connector's other end fitting into the street elbow. Use Teflon tape on each fitting. Be careful not to overtighten, putting excess stress on the range's gas port fitting.



Photo 5: Tighten the nuts

Tighten the connector nuts to the two end connector fittings. While tightening the nuts, hold the tube straight against the fitting. Do NOT use Teflon tape on these threads. The beveled edges of the end fittings are meant to form a tight seal against the ends of the corrugated tube. Using tape can interfere with this seal.



Photo 6: Check for leaks

Turn on the gas cock (vertical position) and light the range burners for about a minute to get the air out of the gas line. Then spray all the joints you've made with gas leak detector (sold at home centers). You can also use warm, thick soapy water for this. Bubbles around a joint will indicate a leak.