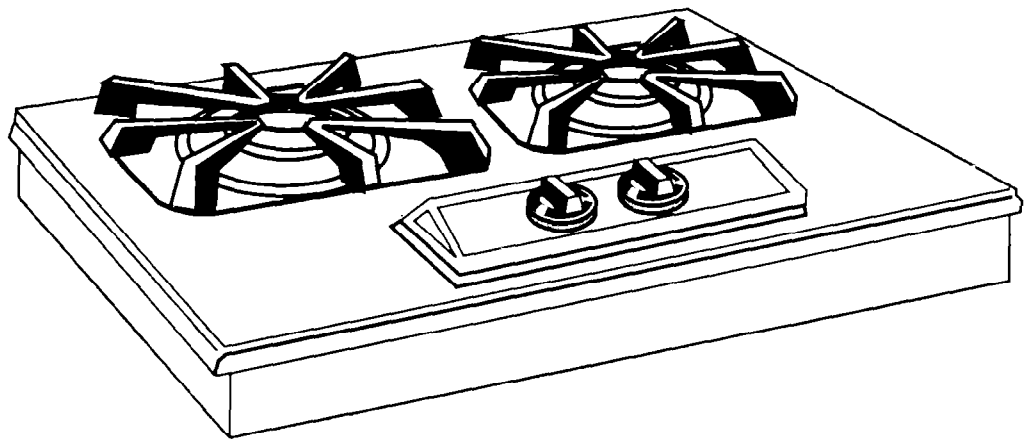
Installation Instructions



Part No. 36-307962-02-0/4363169

IMPORTANT: Read and save these instructions.

IMPORTANT:
Installer: Leave Installation Instructions with the homeowner.
Homeowner: Keep Installation Instructions for future reference.
Save Installation Instructions for local electrical inspector's use.

20" Gas Cooktop

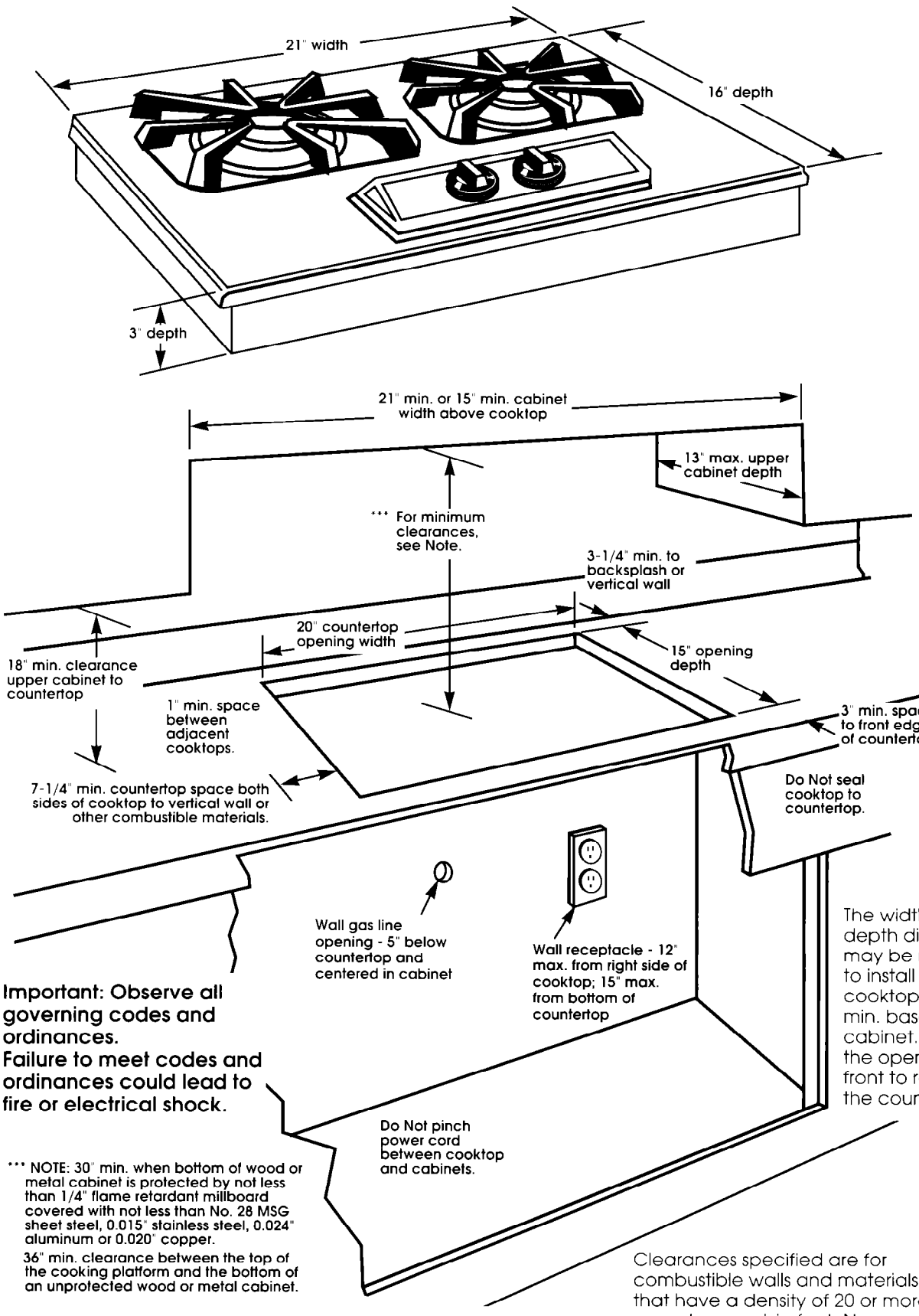
7/93

Before you start...

Proper installation is your responsibility. Make sure you have everything necessary for correct installation. It is the responsibility of the installer to comply with the installation clearances specified on the serial/rating plate. The serial/rating plate is located behind the righthand-side burner on the back wall of the burner box.

Check location where cooktop will be installed. The location should be away from strong draft areas, such as windows, doors and strong heating vents or fans. The cooktop should be located for convenient use in the kitchen.

ALL OPENINGS IN THE WALL OR FLOOR WHERE THE COOKTOP IS TO BE INSTALLED MUST BE SEALED.



Important: Observe all governing codes and ordinances.
Failure to meet codes and ordinances could lead to fire or electrical shock.

The width and depth dimensions may be reversed to install the cooktop in a 15" min. base cabinet. Center the opening from front to rear in the countertop.

*** NOTE: 30" min. when bottom of wood or metal cabinet is protected by not less than 1/4" flame retardant millboard covered with not less than No. 28 MSG sheet steel, 0.015" stainless steel, 0.024" aluminum or 0.020" copper.

36" min. clearance between the top of the cooking platform and the bottom of an unprotected wood or metal cabinet.

24" min. base cabinet is required. If cabinet has a drawer, a 3-1/2" depth clearance from the bottom of the countertop to the top of the drawer (or other obstruction) in the base cabinet is required.

Clearances specified are for combustible walls and materials that have a density of 20 or more pounds per cubic foot. No evaluation of clearances has been made for installations adjacent to materials that are less than 20 pounds per cubic foot or to plastic tiles and sheeting.

Grounded electrical outlet is required. See "Electrical requirements."

Proper gas supply connection must be available. See "Gas supply requirements."

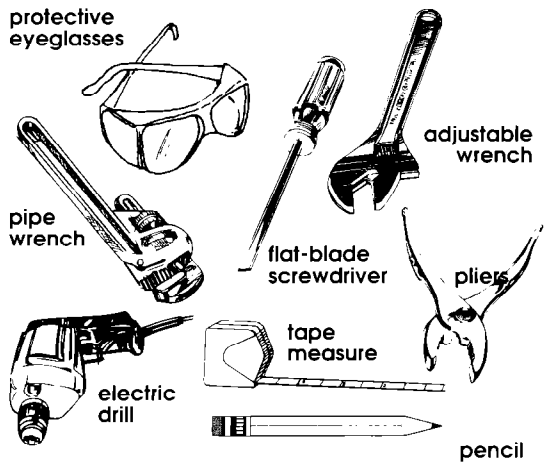
Countertop opening dimensions that are shown must be used. Dimensions are minimum clearances and provide the required 0" clearance.

WARNING: If the information in this manual is not followed exactly, a fire or explosion may result causing property damage, personal injury or death.

- **Do Not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.**
- **WHAT TO DO IF YOU SMELL GAS.**
  - **Do Not try to light any appliance.**
  - **Do Not touch any electrical switch; Do Not use any phone in your building.**
  - **Immediately call your gas supplier from a neighbor's phone. Follow gas supplier's instructions.**
  - **If you cannot reach your gas supplier, call the fire department.**
- **Installation and service must be performed by a qualified installer, service agency or the gas supplier.**

Tools and materials needed for installation:

- gas line shutoff valve
- L.P.-resistant pipe-joint compound
- AGA design-certified flexible metal connector (4-5 feet)
- flare union adapter for connection to pressure regulator (1/2" NPT x 1/2" or 3/4" I.D.)



WARNING

Fire Hazard

Do Not obstruct the flow of combustion and ventilation air.

Personal Injury Hazard

Avoid installing cabinet storage above the cooking surface. If cabinets are already installed, reduce the hazard of reaching over a heated surface by installing a range hood. The range hood should extend a minimum of 5 inches out from the bottom front of the cabinets.

Reaching over a heated cooking surface could result in a serious burn or other personal injury.

Electrical Shock Hazard

It is the customer's responsibility:

- **To contact a qualified electrical installer.**
- **To assure that electrical installation is adequate and in conformance with National Electrical Code, ANSI/NFPA 70 — latest edition**, and all local codes and ordinances.**

Failure to do so could result in fire, electrical shock or other personal injury.

Mobile home installation

The installation of this cooktop must conform to the Manufactured Home Construction and Safety Standards, Title 24 CFR, Part 3280 (formerly the Federal Standard for Mobile Home Construction and Safety, Title 24, Hud Part 280) or when such standard is not applicable, the Standard for Manufactured Home Installation 1982 (Manufactured Home Sites, Communities and Setups), ANSI A225.1/NFPA 501A-1987, or latest edition, or with local codes.

Copies of the standards listed above may be obtained from:

* **American Gas Association**
1515 Wilson Boulevard
Arlington, Virginia 22209

** **National Fire Protection Association**
Batterymarch Park
Quincy, Massachusetts 02269

Gas supply requirements

Important: Observe all governing codes and ordinances.

WARNING

Fire Hazard

- **Cooktop must be connected to a regulated gas supply.**
- **L.P. gas supply must Not exceed a pressure of 14 inches water column. This must be checked by a qualified technician before installing this cooktop.**
- **Do Not use an open flame to test for leaks from gas connections.**
- **New, A.G.A. design-certified flexible gas line should be used when codes permit.**

Failure to follow these instructions could result in a fire, explosion or personal injury.

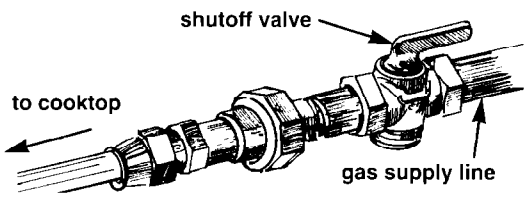
A. This installation must conform with local codes and ordinances. In the absence of local codes, installation must conform with American National Standard, National Fuel Gas Code ANSI Z223.1— latest edition.*

B. Input ratings shown on the serial/rating plate are for elevations up to 2,000 feet. For elevations above 2,000 feet, ratings are reduced at a rate of 4% for each 1,000 feet above sea level. The serial/rating label is behind the righthand-side burner on the back wall of the burner box.

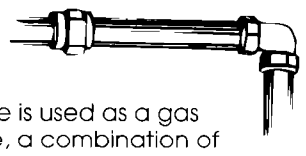
C. This cooktop is equipped for use with NATURAL gas. It is design-certified by American Gas Association for NATURAL and L.P. gases with appropriate conversion. The serial/rating plate has information on the type of gas that can be used. If this information does not agree with the type of gas available, see your dealer or check with your local gas supplier. See back cover for L.P. gas conversion instructions.

D. Provide a gas supply line of 3/4" rigid pipe to the cooktop location. A smaller size pipe on long runs may result in insufficient gas supply. Pipe-joint compounds made for use with L.P. gas must be used. With L.P. gas, piping or tubing size can be 1/2" minimum. L.P. gas suppliers usually determine the size and materials used in the system.

E. If local codes permit, new A.G.A. design-certified, metal tubing is recommended for connecting cooktop to the gas supply line. Do Not kink or damage the flexible tubing when moving the cooktop. A 1/2" male pipe thread is needed for connection to pressure regulator female pipe threads.



F. The supply line shall be equipped with an approved shutoff valve. This valve should be located in the same room as the cooktop and should be in a location that allows ease of opening and closing. Do Not block access to shutoff valve.



G. If rigid pipe is used as a gas supply line, a combination of pipe fittings must be used to obtain an in-line connection to the cooktop. All strains must be removed from the supply and fuel lines so cooktop will be level and in line.

H. The regulator must be checked at a minimum of 1-inch water column above the manifold pressure. The inlet pressure to the regulator should be as follows for operation:

NATURAL GAS:
Set pressure 7 inches
Maximum pressure 14 inches
L.P. GAS:
Set pressure 11 inches
Maximum pressure 14 inches

I. Line pressure testing:
Testing above 1/2 psi (gauge)
The cooktop and its individual shutoff valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures greater than 1/2 psig (3.5 kPa).

Testing at 1/2 psi (gauge)
The cooktop must be isolated from the gas supply piping system by closing its individual manual shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 psig (3.5 kPa).

Electrical requirements

⚠ WARNING

Electrical Shock Hazard

- **Electrical ground is required on this appliance.**
- **If cold water pipe is interrupted by plastic, non-metallic gaskets or other insulating materials, Do Not use for grounding.**
- **Do Not ground to a gas pipe.**
- **Do Not modify the power supply cord plug. If plug will not fit the outlet, have a proper outlet installed by a qualified electrician.**
- **Do Not have a fuse in the neutral or grounding circuit. A fuse in the neutral or grounding circuit could result in an electrical shock.**
- **Do Not use an extension cord with this appliance.**
- **Check with a qualified electrician if you are in doubt as to whether the appliance is properly grounded.**

Failure to follow these in instructions could result in serious injury or death.

If codes permit and a separate grounding wire is used, it is recommended that a qualified electrician determine that the grounding path is adequate.

A 120-volt, 60-Hz, AC-only, 15- or 20-ampere, fused electrical supply is required. A time-delay fuse or circuit breaker is recommended. It is recommended that a separate circuit serving only this appliance be provided.

Electronic ignition systems operate within wide voltage limits, but proper grounding and polarity are necessary. In addition to checking that the outlet provides 120-volt power and is correctly grounded, the outlet must be checked by a qualified electrician to see if it is wired with correct polarity.

See Panel C for wiring diagram.

Recommended grounding method

For your personal safety, this appliance must be grounded. This appliance is equipped with a power supply cord having a 3-prong grounding plug. To minimize possible shock hazard, the cord must be plugged into a mating 3-prong grounding-type wall receptacle, grounded in accordance with National Electrical Code, ANSI/NFPA 70 — latest edition** and all local codes and ordinances. See Figure 1. If a mating wall receptacle is not available, it is the personal responsibility and obligation of the customer to have a properly grounded, 3-prong wall receptacle installed by a qualified electrician.

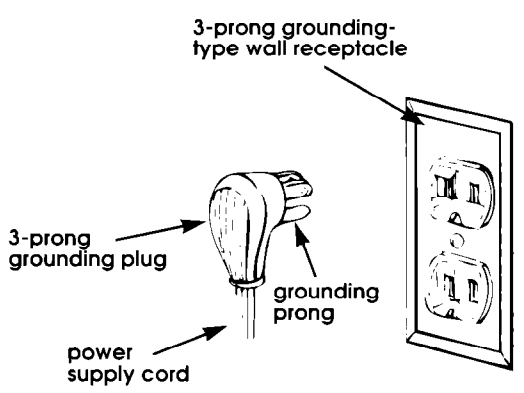


Figure 1

Now start...

With cooktop in kitchen.

1. Remove shipping materials, tape and protective film from cooktop.

2. Remove burner grates and control knobs from the cooktop.

3. Remove plastic parts bag from inside cooktop. Remove parts from bag and line up next to your tools.

⚠ CAUTION

Property Damage

Lift entire cooktop up from cutout when repositioning cooktop in countertop opening.

Failure to do so could scratch countertop.

4. Insert cooktop into the countertop opening. Center cooktop in cutout. Check that the front of the cooktop is parallel to the front edge of the countertop. Check that all required clearances are met. Lift up maintop and mark location of mounting holes on countertop. Remove cooktop from cutout.

⚠ WARNING

Personal Injury Hazard

Wear protective eyeglasses when using drill.

Failure to wear eyeglasses may result in eye injury.

5. Determine which mounting method you will use.

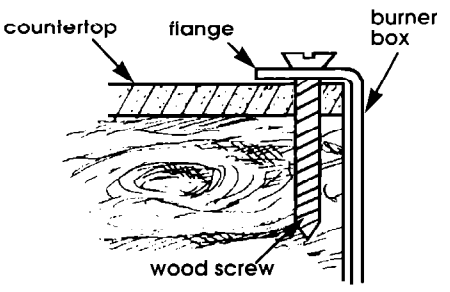
(Mounting screws not supplied with all models. Nails are not supplied.)

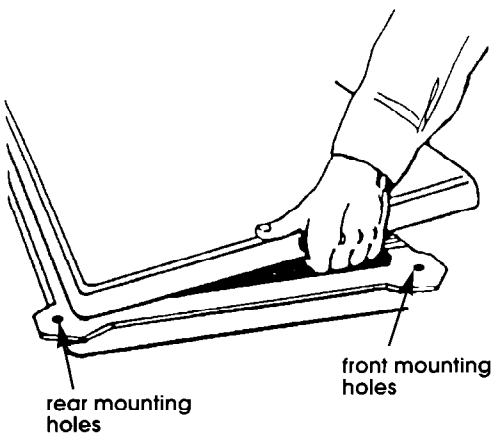
If burner box flange will be screwed directly into the countertop:

A. Drill pilot holes at each mark for the screws.

B. Reset cooktop into cutout and align mounting holes with the pilot holes.

C. Lift maintop up to at least a 90° angle and support securely. Insert a wood screw in each of the front and rear corner mounting holes to fasten burner box flange to countertop. (Some cooktops may have a mounting hole in the center of the front and rear flanges. Use of center mounting holes is optional.) Do Not overtighten screws.





If the burner box will be nailed directly to the countertop:

A. Drill pilot holes at each mark for the nails.

B. Reset cooktop into cutout and align mounting holes with the pilot holes.

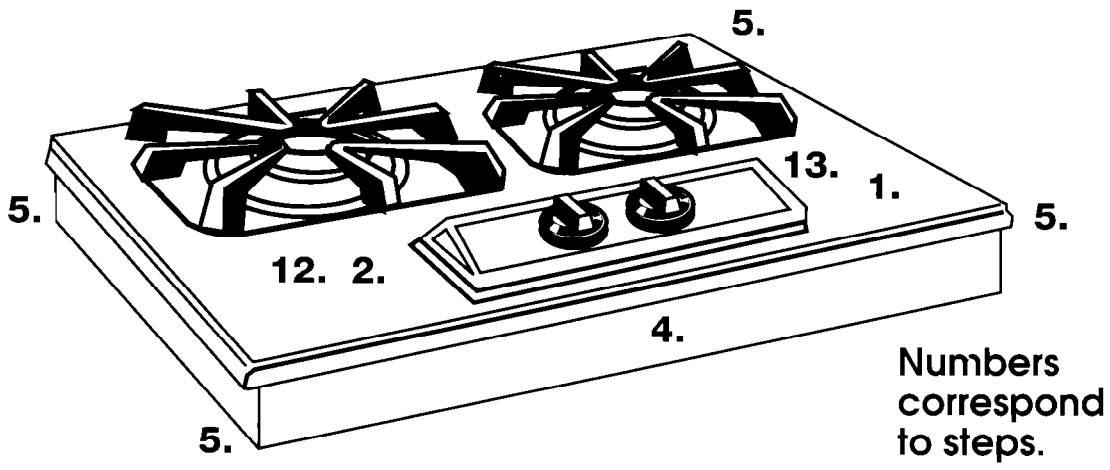
⚠ CAUTION

Product Damage

Do Not hit burner box flange with hammer.

Hitting the flange with the hammer could damage the porcelain finish.

C. Lift maintop up to at least a 90° angle and support securely. Carefully hammer a flat-head nail through each of the front and rear corner mounting holes to fasten burner box flange to countertop. (Some cooktops may have a mounting hole in the center of the front and rear flanges. Use of center mounting holes is optional.) Do Not hammer nails too tightly to countertop.



Numbers correspond to steps.

If countertop material is difficult to drill through (such as ceramic):

⚠ CAUTION

Product Damage

Use special care when drilling through ceramic materials.

Ceramic materials may crack or shatter during drilling.

A. Use a carbide tip drill bit to drill clearance holes through the countertop material at each mark.

B. Reset cooktop into cutout and align mounting holes with the drilled clearance holes.

⚠ CAUTION

Product Damage

Do Not hit burner box flange with hammer.

Hitting the flange with the hammer could damage the porcelain finish.

C. Lift maintop up to at least a 90° angle and support securely. Use a wood screw or flat-head nail through each of the front and rear corner mounting holes to fasten burner box flange to countertop. (Some cooktops may have a mounting hole in the center of the front and rear flanges. Use of center mounting holes is optional.) Do Not overtighten screws or hammer nails too tightly.

Optional method: Bolts at least 2-1/2 inches long (available from a local hardware store) can be used, depending on the location of the cooktop mounting holes.

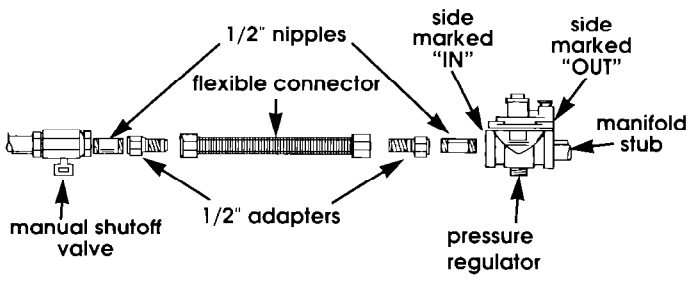
⚠ WARNING

Fire Hazard

Do Not make connection too tight. The regulator is die cast.

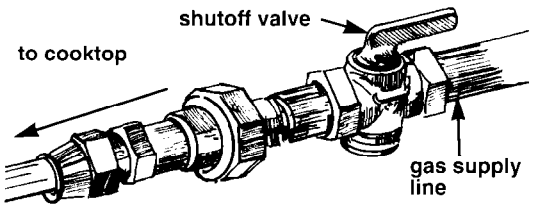
Overtightening may crack the regulator, resulting in a gas leak and possible fire or explosion.

All connections must be wrench-tightened.



6. Remove the pressure regulator from the parts bag. Assemble the pressure regulator (side marked "OUT") to the manifold stub. Assemble the flexible connector from the gas supply pipe to the pressure regulator (side marked "IN") in order: manual shutoff valve, 1/2" nipple, 1/2" adapter, flexible connector, 1/2" adapter, 1/2" nipple and regulator.

7. Use pipe-joint compound resistant to the action of L.P. gas to seal all gas connections. If flexible connectors are used, be certain connectors are not kinked.



8. Open the shutoff valve in the gas supply line. Wait a few minutes for gas to move through the gas line.

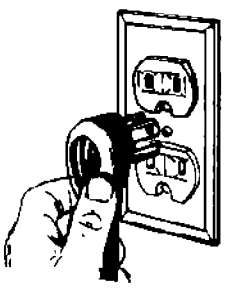
⚠ WARNING

Fire Hazard

Do Not use an open flame to test for leaks from gas connections.

Checking for leaks with a flame may result in a fire or explosion.

9. Use a brush and liquid detergent to test **all** gas connections for leaks. Bubbles around connections will indicate a leak. If a leak appears, shut off gas valve controls and adjust connections. Then check connections again. **NEVER TEST FOR GAS LEAKS WITH A MATCH OR OTHER FLAME.** Clean all detergent solution from cooktop.



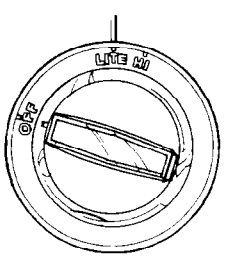
10. Plug the power supply cord into the grounded outlet.

11. Place burner grates over burners and caps. Install control knobs on the valve stems.

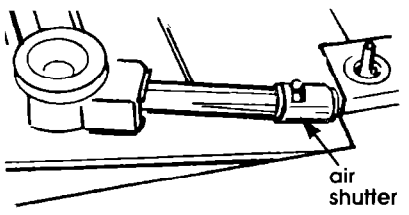
Electronic ignition system — initial lighting

Cooktop burners use electronic ignitors in place of standing pilots. When the cooktop control knob is turned to the "LITE" position, the system creates a spark to light the burner. This sparking continues until the control knob is turned to the desired setting.

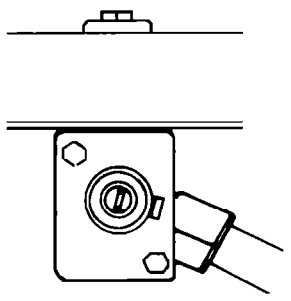
12. Check the operation of the cooktop burners. Push in and turn each control knob to "LITE" position. The flame should light within 4 seconds. **Do Not leave the knob in the "LITE" position after burner lights.**



13. After burner lights, turn control knob to "HI" position. Check each cooktop burner for proper flame. The small inner cone should have a very distinct, blue flame that is 1/4" to 1/2" long. The outer cone is not as distinct as the inner cone.



14. If burners need adjusting, loosen the shutter screw. Adjust the air shutter. Closing the air shutter will cause a soft, yellow-tipped flame. Opening the air shutter will cause lifting or blowing of the flame from the burner. After adjusting a shutter, tighten the shutter screw. Repeat for each burner.



15. Push in and turn the control knob to the "LITE" position and then to the low position. The low flame should be a minimum, steady, blue flame. To adjust the burner, remove the control knob and turn the adjustment screw in the center of the valve stem. Check the adjustment by turning the control knob from "HI" to low several times. The burner is properly adjusted when the low flame remains steady and the burner does not go out. Check each burner.

You have just finished installing your new cooktop. To get the most efficient use from your new cooktop, read your Use & Care Guide. Keep Installation Instructions and Guide close to cooktop for easy reference.

Wiring diagram

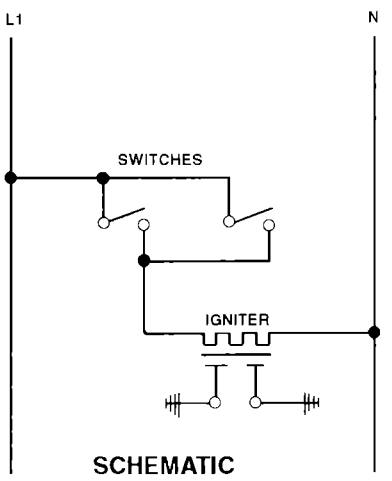
⚠ WARNING

Electrical Shock Hazard

Disconnect from electrical supply before servicing unit.

Failure to disconnect power supply may cause electrical shock.

The power cord on this appliance is equipped with a three-pronged (grounding) plug which mates with standard, three-pronged grounded wall receptacles.



SCHEMATIC

L.P. gas conversion

⚠WARNING

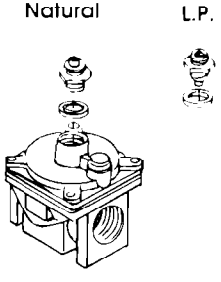
Fire Hazard

- **Do Not make connections too tight. The regulator is die cast. Overtightening may crack the regulator, resulting in a gas leak or possible fire.**
- **Do Not use an open flame to check for leaks from gas connections.**

Failure to follow these instructions could result in fire, explosion or personal injury.

Converting to L.P. gas should be done by a qualified installer.

A.

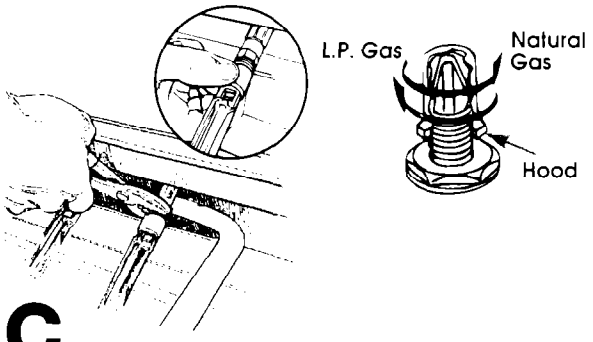


Only a qualified installer should install or adjust your gas cooktop.

Pressure regulator: Use a wrench to unscrew the cap from the top by turning counterclockwise. Turn the cap over so the L.P. hole end is up. Replace the cap and gasket on the regulator. **DO NOT REMOVE THE PRESSURE REGULATOR.**

B.

After all the burners have been converted to L.P. gas usage and gas line is connected, check for leaks. Use a brush and liquid detergent to test **all** gas connections for leaks. Bubbles around connections will indicate a leak. If a leak appears, shut off gas valve controls and adjust connections. Then check connections again. **NEVER TEST FOR GAS LEAKS WITH A MATCH OR OTHER FLAME.**



C.

Cooktop burners: Turn the orifice hoods down tight (approximately 2 to 2-1/2 turns.) DO NOT OVERTIGHTEN. Adjust the air shutters for proper flame by sliding the air shutter to close or open the shutter as needed. See Panel C, Steps 13 - 15. L.P. gas has a slightly yellow tip on top of flame in addition to other proper characteristics.

For cleaning and maintenance...

If removing the cooktop is necessary for cleaning or maintenance, shut off gas supply. Disconnect the gas and electric supplies.

Remove the mounting screws or nails. Lift cooktop out of countertop to complete cleaning or maintenance.

Reinstall cooktop.Check that front edge of cooktop is parallel to front edge of countertop. Secure with mounting screws or nails. Connect gas and electric supplies.

If cooktop does not operate...

- Check that the circuit breaker is not tripped or the house fuse blown.
- Check that power supply cord is plugged into wall receptacle.
- Check that the gas valves are turned to the "ON" position.

A more detailed troubleshooting checklist is provided in the Use and Care Guide.

NOTE: Refer to Use and Care Guide for operating instructions and cleaning instructions.

If you need assistance...

Check your Use and Care Guide for a toll-free number to call, or call the dealer from whom you purchased this appliance. The dealer is listed in the Yellow Pages of your phone directory under "Appliances — Major."

When you call, you will need the cooktop model number and serial number. Both numbers can be found on the serial/rating plate located on the bottom of the cooktop.

Part No. 36-307962-02-0/4363169

Benton Harbor, Michigan 49022

Printed in U.S.A.