

BUILT-IN GAS COOKTOPS

30" MODELS: KGCS100S
GSU-300

36" MODELS: KGCG260S, KGCS160S,
GSUG-360, GSU-360

INSTALLATION INSTRUCTIONS

INSTALLER: FINAL CHECK LIST

PLACEMENT OF COOKTOP

- 1. Specified clearances maintained to adjacent surfaces and front of countertop.
- 2. Burner box securely anchored to cabinet top.

ELECTRICAL

- 1. Polarized three wire 120VAC, 60 Hz, with proper receptacle and overcurrent protection according to specifications given in this booklet.

GAS SUPPLY

- 1. Supply line of 1/2" Black Iron pipe provided.
- 2. Pressure regulator shipped with unit connected to manifold.
- 3. Manual shutoff valve installed in accessible location.
- 4. Unit tested for gas leaks.

OPERATIONAL

- 1. If used on LP gas, verify that pressure regulator and orifice hoods have been modified for use with LP.
- 2. Burners are properly positioned.
- 3. Knobs installed on valve stems.
- 4. Each burner lights satisfactorily.
- 5. Flame adjustment of 1/2" soft blue cone made on each burner.
- 6. Low flame adjustment verified.
- 7. Drip rings and grates correctly positioned.
- 8. Grill/Griddle Models — Indicator light comes on when grill/griddle element is turned on.
- 9. Grill/Griddle Models — Pan/element assembly is properly assembled as shown in Figure 4.
- 10. Grill/Griddle Models — Place cover over grill or griddle.
- 11. Unless instructed to leave for owner, remove all tags, labels and internal packing materials.

FOR MAINTENANCE - See Use & Care Guide.

TO LIGHT YOUR COOKTOP DURING POWER OUTAGE - See Use & Care Guide.

THANK YOU INSTALLER:

1. Complete Installation Check List.
2. Leave all literature for customer.
3. Notify dealer that installation is completed.

FOR DETAILED INSTRUCTIONS, FOLLOW METHODS DESCRIBED IN THIS FOLDER.

IMPORTANT: Read before installing to save time, work, assure proper performance, and owner's warranty protection.

INSTALLATION INSTRUCTIONS

The installation of the cooktop must conform to local codes and utility regulations and should be made only by a qualified technician. In the absence of local codes, the installation must follow the National Fuel Gas Code, ANSI Z 223.1a-1987 and the National Electrical Code, ANSI/NFPA No. 70-1987. When installed in a mobile home the installation must conform with Federal Standard for Mobile Home Construction and Safety, Title 24, HUD (Part 280) or when such standard is not applicable, with local codes. See Electrical Connection section for circuit requirements.

CABINET CONSTRUCTION

This surface unit is designed for installation in a base cabinet with a countertop depth of 24". The maximum depth for overhead cabinets is 13". See Figure 1B. The minimal vertical clearance between the cooking surface and overhead cabinets is 30". Overhead cabinets installed at either side of the appliance must be a minimum of 18" above the cooking surface. See Figure 1A. Also see Figure 1A for the minimal horizontal distance between the overhead cabinets to either side of the appliance for your model. Minimal distances between the front edge of the countertop and the front edge of the cooktop are given in Figure 1B for your model.

Grill/Griddle units - Units **must** be used in conjunction with a suitable vent hood. Cooking utensils should **not** be used on the grill/griddle section of the cooktop.

Note: To reduce the risk of burns or fire by reaching over heated surface units, cabinet storage above the surface units should be avoided. If cabinet storage is to be provided, the risk can be reduced by installing a range hood that projects horizontally a minimum of 5" beyond the bottom of the cabinets.

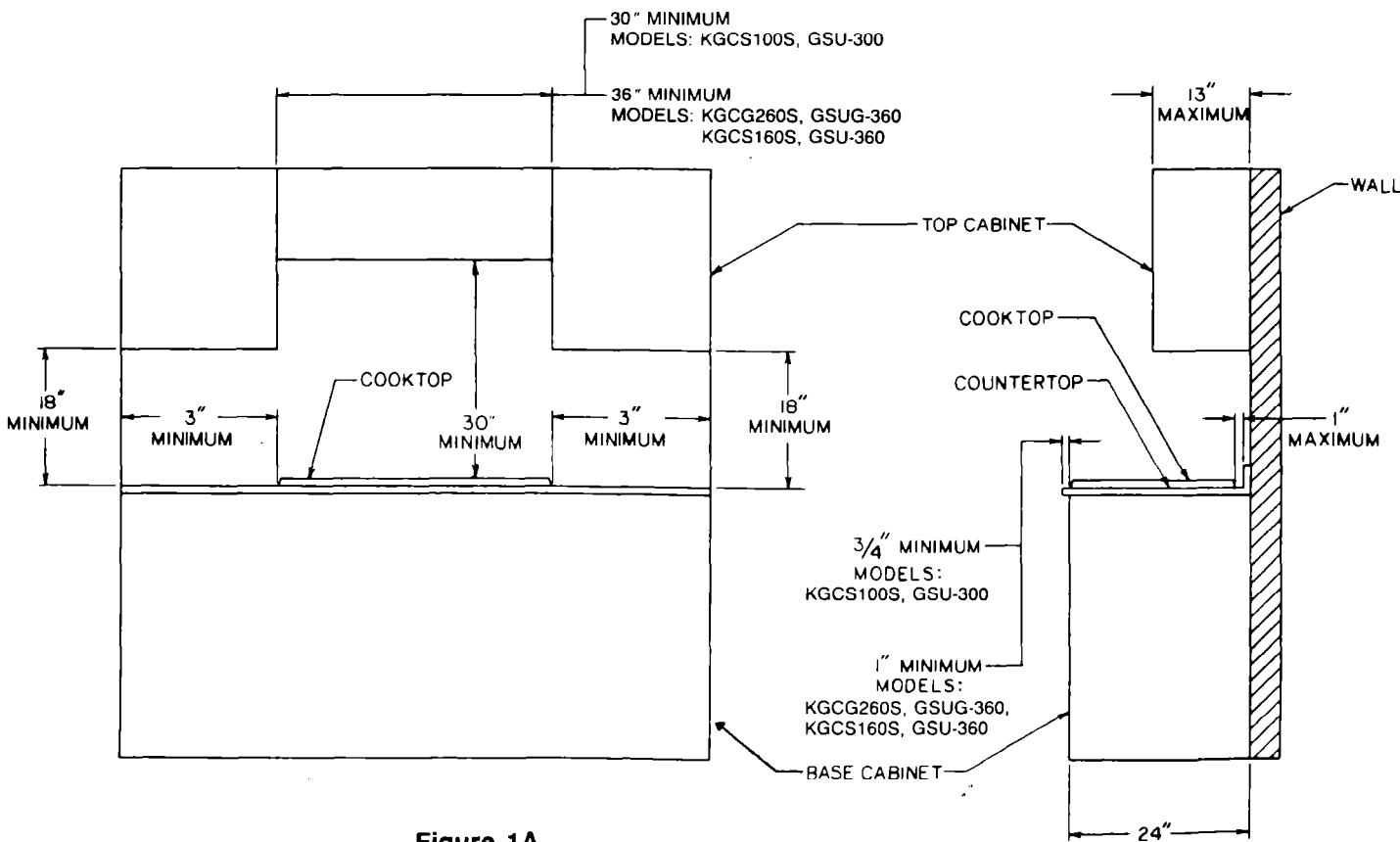


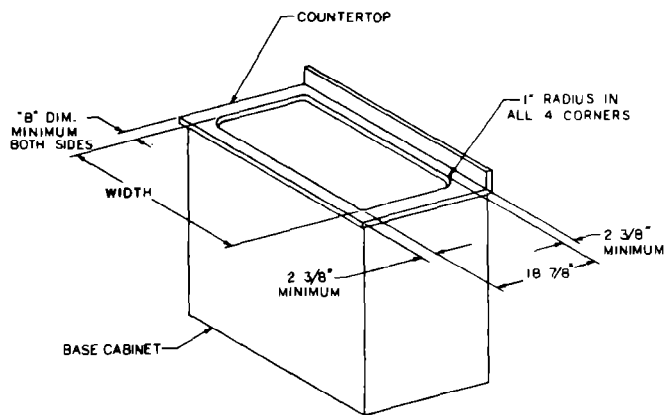
Figure 1A

Figure 1B

The burner box is 3¼" deep. Additional clearance is required under the back 6" of the burner box for fuel and power connections. See Figure 5. The minimal clearances between the cooktop and adjacent vertical combustible surfaces is 3" on either side and 1" in the back. See Figures 1A and 1B. Use Figure 2, below, for new installations or use Figure 3 below for replacement installations.

FOR NEW INSTALLATIONS ONLY

Note: When the cutout illustration, given below, is followed the minimal side and back clearances to adjacent vertical combustible surfaces will be met.



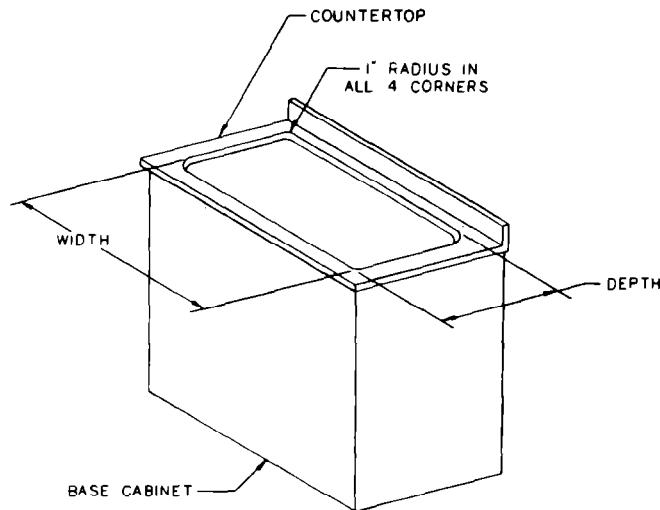
CUTOUT DIMENSIONS FOR NEW INSTALLATIONS

| | 30" MODELS | 36" MODELS |
|----------|------------|------------|
| Width | 27" | 33¼" |
| "B" Dim. | 47/8" | 4½" |

Figure 2

FOR REPLACEMENT INSTALLATIONS ONLY

Note: In order to comply with AGA safety standards the minimal side and back clearances to adjacent vertical combustible surfaces of 3" and 1" must be met when installing this unit. See Figures 1A and 1B.



CUTOUT DIMENSIONS FOR REPLACEMENT INSTALLATIONS

| | 30" MODELS | | 36" MODELS | |
|-------|------------|---------|------------|---------|
| | Minimum | Maximum | Minimum | Maximum |
| Width | 26½" | 295/8" | 33" | 347/8" |
| Depth | 18¾" | 205/8" | 18¾" | 205/8" |

Figure 3

ELECTRICAL CONNECTION

WARNING: THIS COOKTOP IS PROVIDED WITH A POLARIZED THREE PRONG PLUG. IT IS NECESSARY THAT THE OUTLET TO WHICH THIS PLUG IS CONNECTED BE PROPERLY POLARIZED AND GROUNDED. IF THE RECEPTACLE IS NOT THE PROPER GROUNDING TYPE, A QUALIFIED ELECTRICIAN SHOULD BE CONTACTED.

This unit requires a polarized three wire grounded receptacle connected to a 120 VAC, single phase, 60 hertz. See chart below for overcurrent protection circuit size for your model. The receptacle must be installed below the cooktop so that the service cord supplied with the unit may be easily removed for servicing or cleaning the cooktop. (See Figure 5 under "Connecting Unit to Gas" for locations.) This unit must be electrically grounded in accordance with local codes, or in their absence, with the National Electrical Code, ANSI/ NFPA No. 70-1987.

OVERCURRENT
PROTECTION
CIRCUIT SIZE

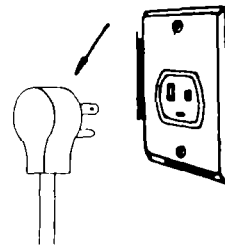
KGCS100S, GSU-300
KGCS160S, GSU-360

KGCG260S, GSUG-360

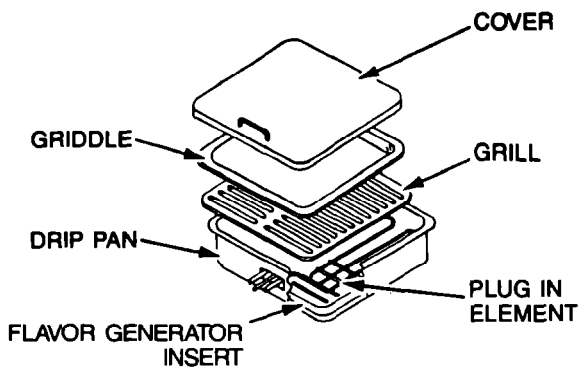
15 OR 20 AMPERES 20 AMPERES

Recommended Method

PLUG WITH GROUND PRONG
PROPERLY POLARIZED AND
GROUNDED RECEPTACLE



UNPACKING THE UNIT



KGCG260S, GSUG-360
Figure 4

Remove all packing material from unit and any accessories.

Grill/Griddle Models - Assemble grill/griddle as shown in Figure 4. Set aside.

Be sure to remove the pressure regulator and all hardware before disposing of carton.

When raising or lowering the cooktop itself use the front two burner openings.

INSTALLING IN CABINET

Prior to installation test the electrical service to assure that it agrees with the electrical specifications given in this booklet for your model.

Study all tags and labels and follow their instructions during installation.

Place cooktop in countertop cutout. Center and align unit in opening making sure that required clearances are maintained.

Remove rear burners & venturi before installing unit.

Determine which of the following two mounting methods, shown in Figures A and B (top of next page), is to be used. When using either method be sure to use the outermost applicable mounting hole.

NOTE: With some installations, i.e. replacements, it is possible that both methods may be used.

Hardware for both methods is provided and consists of 4 - wood screws and 4 - bolt and clamp assemblies.

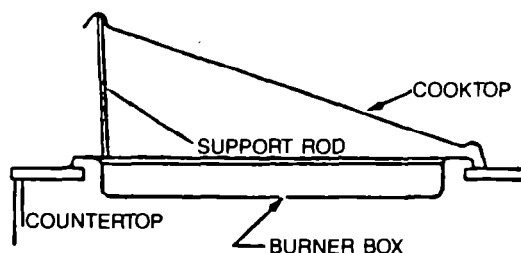
WOOD SCREW AND WASHER ASSEMBLY

Figure A

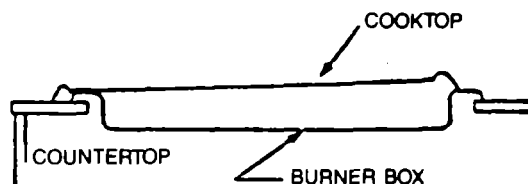
When possible the burner box may be fastened directly to the countertop using a wood screw and washer assembly. Using the cup washer from the bolt and clamp assembly place wood screw provided through washer.

1. Each unit has double action hinges which allow the front and back mounting holes to be exposed individually. After centering and aligning unit in cutout, lift cooktop by placing a hand in each front burner opening and hold in place with support rod. See Position 1. Secure burner box using wood screw and washer assembly in front two outermost mounting holes. As shown in Figure A.

IMPORTANT NOTE: Due to flange design hand tighten only until outer lip is snug to countertop. Overtightening may stress flange and cause crazing and chipping of porcelain.

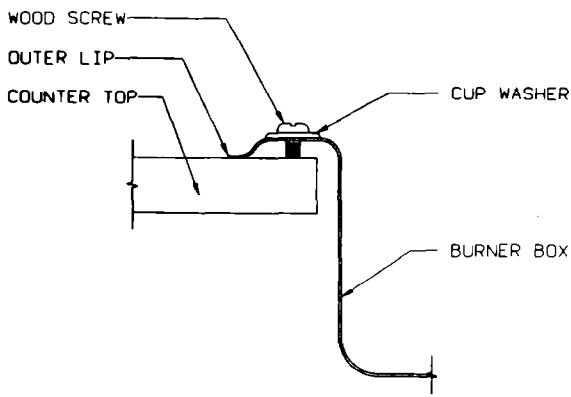


Position 1

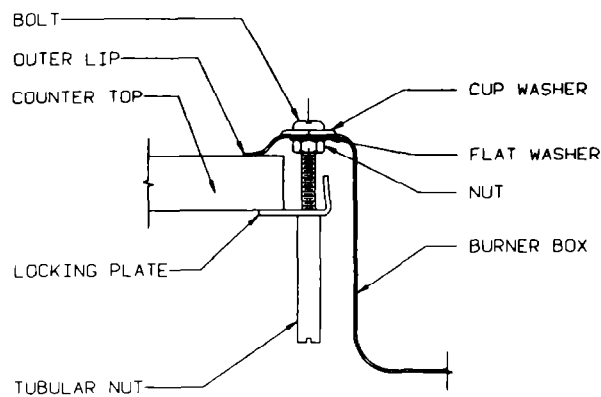


Position 2

2. To expose back mounting holes, lift cooktop slightly, disengage support rod and pull cooktop forward, without lowering it, until hinges lock. Lower cooktop until it rests on countertop. See Position 2. Secure burner box using back two outermost mounting holes.
3. After fastening lift cooktop slightly and push back. Lower cooktop into normal position.



WOOD SCREW AND WASHER ASSEMBLY
Figure A



BOLT AND CLAMP ASSEMBLY
Figure B

BOLT AND CLAMP ASSEMBLY

Figure B

1. After centering and aligning unit in cutout lift cooktop by placing a hand in each front burner opening and hold in place with the support rod. Place a cup washer over each bolt, grooved side away from bolt head, and put through the outermost mounting hole in each corner of the burner box.
2. Remove unit from countertop cutout. Lock each bolt and washer in place using a flat washer and hex nut on bottom side of burner box flange as shown in Figure B.
3. Put burner box with attached bolts in cabinet cutout. Center and align unit in opening making sure that required clearances are maintained.
4. The following work must be done below the countertop. Slide locking plate over the lower end of the bolt. Hold in place with tubular nut, making sure that locking plate is positioned to obtain maximum area possible of countertop. See Figure B. Hand tighten tubular nut using standard slotted screwdriver.

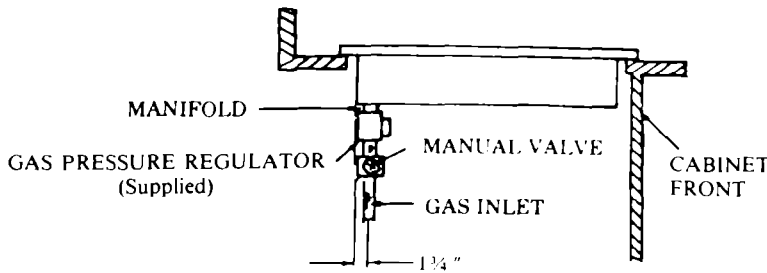
IMPORTANT NOTE: Due to flange design hand tighten only until outerlip is snug to countertop. Overtightening may stress flange and cause crazing and chipping of porcelain.

CONNECTING UNIT TO GAS

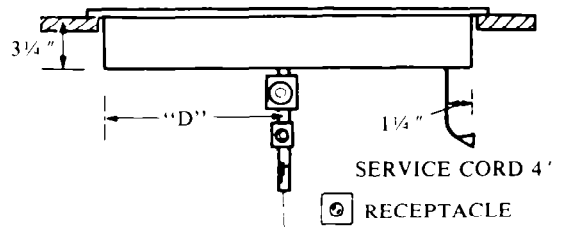
All gas supply connections should be made by a qualified technician and in accordance with local codes or ordinances. In the absence of a local code, the installation must conform to the National Fuel Gas Code ANSI Z 223.1a-1987. The manifold and pressure regulator supplied with the unit have 1/2" NPT connections. Setting of the pressure regulator is 6 in. water column (W.C.) for natural gas and 10 in. W.C. for LP gas. In order to check pressure regulator, the inlet test pressure must be at least one in. (1") W.C. greater than setting (7" for natural and 11" for LP). Maximum pressure to regulator must not exceed 14" W.C.

Thread sealant resistant to natural and LP gases is to be used on all threaded gas connections.

The end of the manifold extends out of the burner box in the location shown below for your model. Connect the gas pressure regulator (supplied with the unit) with the arrow on the bottom of the regulator pointing up directly to the end of the manifold. The regulator should be positioned so that the access cap is accessible for removal after the regulator has been installed. A 1/2" NPT manual shut off valve should be installed in the gas supply line in an accessible location, so that the gas may be turned off when servicing of the unit is required.



SIDE VIEW
ALL MODELS



FRONT VIEW
30" MODELS 36"
"D" 13" 23 1/2"

Figure 5

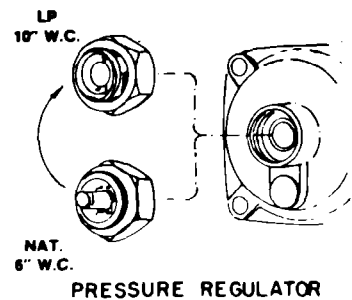
The appliance and its individual shutoff valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of 1/2 psig. (3.5 kPa)

The appliance 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 pressure equal to or less than 1/2 psig. (3.5 kPa)

LP GAS ADJUSTMENT

Your cooktop was factory built for use with natural gas, for USE WITH LP GAS THE FOLLOWING ADJUSTMENTS MUST BE MADE.

Pressure Regulator - To convert the pressure regulator for LP gas unscrew the regulator access cap, see Figure at right, turn cap over and screw it back onto the regulator. The letters LP and 10" should be visible on the face of the cap.



Orifice Hoods - The orifice hoods are set approximately 2½ turns from the end of the orifice needle for natural gas operation. For LP gas the hoods must be tightened until they just touch the end of the needle. See Figure 6. DO NOT FORCE HOOD AGAINST NEEDLE.

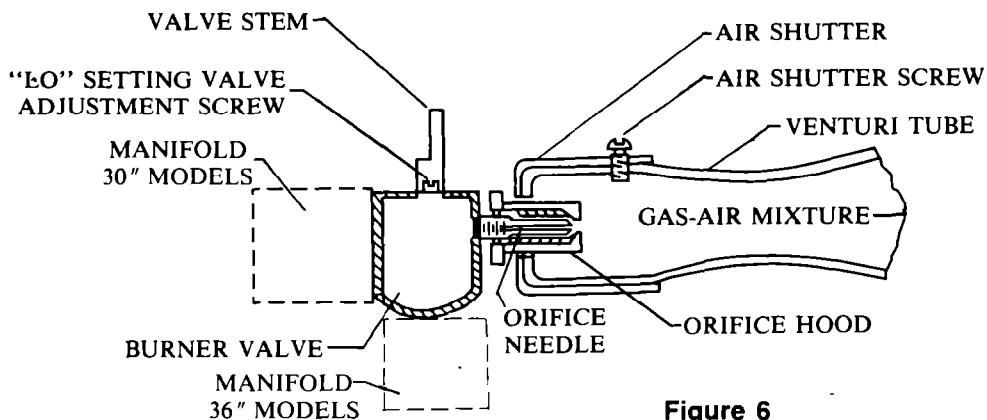


Figure 6

CHECKING GAS CONNECTIONS

Before checking the unit for gas leaks be sure that the electrical supply is disconnected. Test for leaks using a pressure gauge or apply a soap solution or leak detector on all gas connections. Repair any leaks that may appear before continuing installation.

Make sure that each burner is resting on the burner bracket at three locations- the two legs and at the venturi connection.

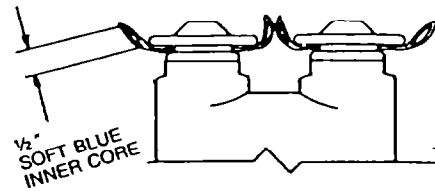
Check that the air shutter opening is approximately ¼" for four tower burners and wide open for six tower burners (opening was preset at factory). Both dimensions can be checked using drill bits.

The unit is now ready to plug service cord into receptacle. Make sure that power supply neutral is connected to the wide blade slot in receptacle. It is essential that the electrical outlet to which the plug is connected be properly grounded and polarized. If this is in doubt, a qualified electrician should be contacted to check the outlet.

BURNER IGNITION SYSTEM

Your cooktop is equipped with an electric Direct Spark Ignition System. To test the system for proper operation place a knob on any valve stem, push down and rotate the knob left (counterclockwise) to the "light" position. A small blue spark should be visible at the top of **each** burner ignitor and a snapping sound should also be heard. If neither is present turn burner knob to "off" and shut off the gas supply to the unit. Do not turn gas back on until ignition system is functioning properly. Check to make sure power is being supplied at the service cord connection, check for a blown fuse or tripped circuit. Retest ignition. If unsuccessful raise the cooktop and engage support rod. Check the terminal connections at the bottom of the spark ignitors. Also check the valve switch terminal connections. Retest ignition four times.

After each burner has been checked, close cooktop and place drip bowls in burner openings. Ignite each burner separately and examine soft blue inner core of flame. Burner flame adjustments were done in the factory and inner cores should be approximately $\frac{1}{2}$ inch. If adjustment is needed raise cooktop and engage support rod, ignite burner, set at hi, if the flames lift from the burner reduce the air shutter opening. See Figure 6. If flames are yellow open air shutter until you achieve a $\frac{1}{2}$ inch soft blue inner core.



LOW FLAME ADJUSTMENT

The low flame setting is factory preset and burner flames should be approximately $\frac{1}{8}$ inch long. If adjustment is required raise the cooktop and hold in place with the support rod. Place knob on valve stem, ignite and turn burner to "lo" setting. Remove knob. Using pliers to hold the valve stem at its base, insert a $\frac{3}{16}$ " narrow standard blade screwdriver in adjustment slot. See Figure 6. Turn screw until flame is $\frac{1}{8}$ inch long. Close cooktop.

INSTALL GRATES

Rotate drip rings so that hole in cooktop is exposed by the notch in the ring. Place pin on bottom of grate in slot. Grate should sit level on drip bowl.

Refer to Installation Checklist on front cover of this booklet.

SCHEMATIC WIRING DIAGRAMS

