



TECHNICAL EDUCATION

PROFESSIONAL GAS COOKTOPS





JOB AID 4317318

FORWARD

This Job Aid, "Professional Gas Cooktops," (Part No. 4317318), provides the technician with information on the operation and service of the Professional Gas Cooktop. It is to be used as a training Job Aid and Service Manual.

The wiring diagrams and strip circuits used in this Job Aid are typical and should be used for training purposes only. Always use the wiring diagrams supplied with the product when servicing the unit.

GOALS AND OBJECTIVES

The goal of this Job Aid is to provide detailed information that will enable the service technician to properly diagnose malfunctions and repair the Professional Gas Cooktop.

The objectives of this Job Aid are to:

- Understand and follow proper safety precautions.
- Successfully troubleshoot and diagnose malfunctions.
- Successfully perform necessary repairs.
- Successfully return the Professional Gas Cooktop to the proper operational status.

WHIRLPOOL CORPORATION assumes no responsibility for any repair made on our products by anyone other than Authorized Factory Service Technicians.

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MODEL & SERIAL NUMBER DESIGNATIONS

MODEL NUMBER

MODEL NUMBER		K	GC	Р	46	7	J	SS	0
INTERNATIONAL SALES IND.		_							
		_							
OR MARKETING CHANNEL		_		-					-
IF PRESENT									
K = KITCHENAID BRAND		_							
PRODUCT IDENTIFICATION									
EC = ELECTRIC COOKTOP									
GC = GAS COOKTOP									
MERCHANDISING SCHEME				l					
C = CERAMIC GLASS									
D = DOWNDRAFT VENT									
E = ELECTRONICS									
G = GRILL / GRIDDLE									
M = MODULAR / DOWNDRAFT									
N = INTERNATIONAL COLLECTIO	N								
P = PROFESSIONAL / COMMERCI	AL								
S = STANDARD PORCELAIN MET	AL								
T = TEMPERED GLASS									
X = 208 VOLTS									
CAPACITY / SIZE / SERIES / CONF	IGURATION				-				
1ST POSITION	2ND POSITION								
1 = STANDARD	0 = 30" WIDE	_				<u> </u>			
2 = GRILL / GRIDDLE	2 = 42" OR 12	‴ WI)F			<u> </u>			
3 = TEMPERED GLASS	3 = 33" WIDE								
4 = COMMERCIAL	5 = 15" WIDE								
5 = CERAMIC GLASS	6 = 36" WIDE								
8 = MODULAR DOWNDRAFT	8 = 48" WIDE								
0 = 2 BURNER / ELE. SYS.									
FEATURES		_							
0 = STANDARD ELEMENTS / BUF	NERS	_							
1 = RADIANT ELEMENTS									
2 = DUAL ELEMENTS									
3 =									
4 =		+					<u> </u>		
5 = SEALED BURNERS / CAST EL	EMENTS								
6 = 5 BURNERS / ELEMENTS							<u> </u>		
7 = HALOGEN ELEMENTS / 6 BUR	NERS								
8 = TOUCH CONTROLS									
9 = INDUCTION									
YEAR OF INTRODUCTION									
H = 1999		-							
J = 2000									
		-							
TL = TILE SS = BRUSHED STAINLESS STEI	=1	-							-
	_L								
ENGINEERING CHANGE									
0 = BASIC RELEASE									
0 = BASIC RELEASE 1 = FIRST REVISION									

SERIAL NUMBER

SERIAL NUMBER	X	К	05	10052
MANUFACTURING SITE				
X = OXFORD				
YEAR OF PRODUCTION				
K = 2000				
WEEK OF PRODUCTION			I	
5th Week				
PRODUCT SEQUENCE NUMBER				

MODEL & SERIAL NUMBER LABEL LOCATION

The Model / Serial Number label is located in one of two positions, as shown below.





Beginning July, 2000

IMPORTANT SAFETY INFORMATION Your safety and the safety of others is very important.

Important safety messages have been provided in this Job Aid. Always read and obey all safety messages.



This is the safety alert symbol.

This symbol alerts you to hazards that can kill or hurt you and others.

All safety messages will be preceded by the safety alert symbol and the word "WARNING."

All safety messages will identify the hazard, tell you how to reduce the chance of injury, and tell you what can happen if the instructions are not followed.

SPECIFICATIONS

Model Number	KGCP467JTL	KGCP467JSS	KGCP487JSS	
Model Description	Sealed Cooktop	Sealed Cooktop	Sealed Cooktop	
Size-Configuration	36" Dec. Tile Frames	36"	48"	
Feature Level/Series	Professional	Professional	Professional	
Dimensions/Specifications			_	
Exterior Dimensions				
Overall Height (in)	7 1/2"	7 1/2"	7 1/2"	
Overall Width (in)	35 7/8"	35 7/8"	47 7/8"	
Overall Depth (in)	26 1/4"	26 1/4"	26 1/4"	
Cutout Dimensions				
Cutout Height (in) (Measure Or Min/Max)	7 1/4"	7 1/4"	7 1/4"	
Cutout Width (in) (Measure Or Min/Max)	36" (F); 35 1/4" (B)	36" (F); 35 1/4" (B)	48" (F); 47 1/4" (B)	
Cutout Depth (in) (Measure Or Min/Max)	1 1/4" (B); 22" (N)	1 1/4" (B); 22" (N)	1 1/4" (B); 22" (N)	
Weight			T DD	
Net Weight (lbs)	140	140	TBD	
Shipping Weight (lbs)	160	160	TBD	
Ratings				
Electric Voltage/Phase/Frequency (Hz)	120 V/Single Phase/60 Hz	120 V/Single Phase/60 Hz	120 V/Single Phase/60 Hz	
Circuit Amps	15 Amp	15 Amp	15 Amp	
Exterior	Duch to Turn	Duch to Ture	Duch to Ture	
Cooktop Controls	Push-to-Turn	Push-to-Turn	Push-to-Turn	
Cooktop Control Type	Infinite Front	Infinite Front	Infinite Front	
Cooktop Control Location			8	
Cooktop Control #	6 Yes	6 Yes	o Yes	
Control Area	Cast Iron	Cast Iron	Cast Iron	
Burner Grate	Yes-Opt	Yes-Opt	Yes-Opt	
Griddle	Yes	Yes	Yes	
Gas Cooktop Burners	Sealed	Sealed	Sealed	
Gas Burner Type	6000 BTU/5000 BTU	6000 BTU/5000 BTU	6000 BTU/5000 BTU	
Gas R Front Output (BTU)(Nat/LP) Gas L Front Output (BTU)(Nat/LP)	6000 BTU/5000 BTU	6000 BTU/5000 BTU	6000 BTU/5000 BTU	
Gas R Rear Output (BTU)(Nat/LP)	15000 BTU/12000 BTU	15000 BTU/12000 BTU	15000 BTU/12000 BTU	
Gas L Rear Output (BTU)(Nat/LP)	15000 BTU/12000 BTU	15000 BTU/12000 BTU	15000 BTU/12000 BTU	
Gas Center Rear Output (BTU)(Nat/LP)	15000 BTU/12000 BTU	15000 BTU/12000 BTU	15000 BTU/12000 BTU	
Gas Center Front Output (BTU)(Nat/LP)	15000 BTU/12000 BTU	15000 BTU/12000 BTU	15000 BTU/12000 BTU	
Gas Center Right Front (BTU)(Nat/LP)	10000 010/12000 010	13000 010/12000 010	15000 BTU/12000 BTU	
Gas Center Left Front (BTU)(Nat/LP)			15000 BTU/12000 BTU	
Gas Ignition	Electronic	Electronic	Electronic	
LP Conversion	Kit Included	Kit Included	Kit Included	
Accessories				
Backsplash	Included	Included	Included	
Backsplash Part/Comment	Standard 9"	Standard 9"	Standard 9"	
Island Trim	Included	Included	Included	
Island Trim Part/Comment	Standard	Standard	Standard	
Other Accessory	Yes	Yes	Yes	
e their / too coory	Simmer Plate - Factory	Simmer Plate - Factory	Simmer Plate - Factory	
Comment	Packed	Packed	Packed	
Miscellaneous				
Product Literature				
Installation Instructions Part#	8284670	8284670	8284670	
Service Manual Part#	4317318	4317318	4317318	
Use & Care Guide Part#	8284642	8284642	8284642	
Wiring Diagram Part#	3192100	3192100		
Agency Approvals	AGA,CGA	AGA,CGA	AGA,CGA	
Approved to Install Over BI Oven	No	No	No	
Power Cord Length & # Wires	3 1/2 Foot/3 Wire	3 1/2 Foot/3 Wire	3 1/2 Foot/3 Wire	
Warranty	Yes	Yes	Yes	
Full	12 Mo	12 Mo	12 Mo	
Gas Burners	60 Mo	60 Mo	60 Mo	

- NOTES -

INSTALLATION HIGHLIGHTS

L.P. GAS CONVERSION

This conversion kit shall be installed by a qualified service agency in accordance with the manufacturer's instructions and all applicable codes and requirements of the authority having jurisdiction. If the information in these instructions is not followed exactly, a fire, explosion or production of carbon monoxide may result causing property damage, personal injury or loss of life. The qualified service agency is responsible for the proper installation of this kit. The installation is not proper and complete until the operation of the converted appliance is checked as specified in the manufacturer's instructions supplied with this kit.



Explosion Hazard

Securely tighten all gas connections.

If connected to L.P. gas, have a qualified person make sure gas pressure does not exceed 14["] water column.

Examples of a qualified person include licensed heating personnel, authorized gas company personnel, and authorized service personnel.

Failure to do so can result in death, explosion, or fire. The following parts are provided with Conversion Kit **Part #8284673**:

Orifice/Spud Package **Part #8284663**



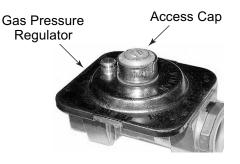
Conversion Label Part #8284675



Conversion Instructions - Part #8284674

To convert the cooktop for use with L.P. gas, perform the following steps.

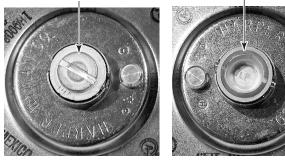
- 1. Turn off the gas supply to the cooktop.
- 2. Disconnect power to the cooktop.
- 3. Use a screwdriver and remove the access cap on the gas pressure regulator.



4. Turn the access cap so that the letters **L.P.** are facing up and then reinstall the cap on the regulator.

NAT Position

L.P. Position

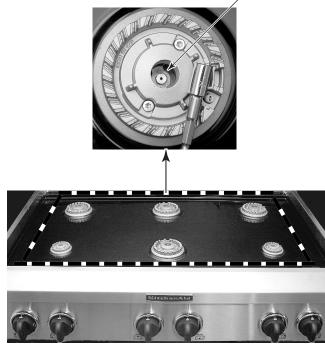


5. Remove the grates from the cooktop and the burner caps from the burner bases.



Use a 7 mm nut driver and remove the 6. orifices from each of the burners. NOTE: Place a small piece of masking tape along the inside edge of the nut driver to help keep the orifice in the driver.

Burner Orifice

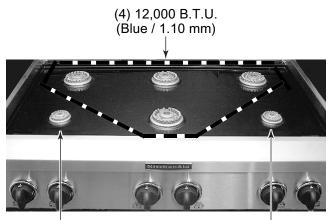


36" / 6-Burner Model Shown

IMPORTANT NOTE: The 5,000 B.T.U. orifices (red, 0.70 mm) MUST be used in the small left and right front corner burners only. The 12,000 B.T.U. orifices (blue, 1.10 mm) MUST be used in all the other burners.

Rating	Color	Size
5,000 B.T.U.	Red	0.70 mm
12,000 B.T.U.	Blue	1.10 mm

Install the L.P. orifices in the burner loca-7. tions shown below. NOTE: The 48"/8burner models also have the two 2.300 B.T.U. burners at the outer front left and right locations.



5,000 B.T.U. (Red/0.70 mm)

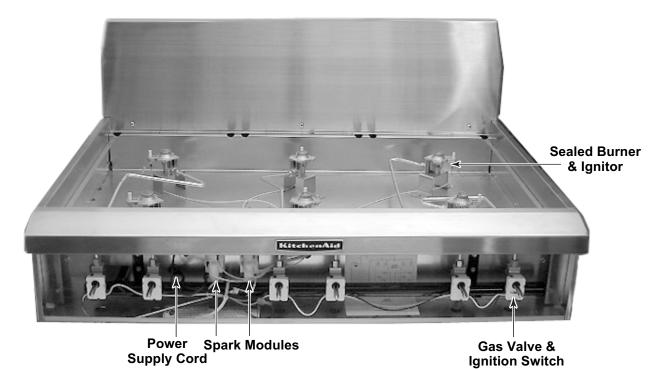
5,000 B.T.U. (Red/0.70 mm)

8. Replace the burner caps and grates.

COMPONENT ACCESS

This section instructs you on how to service each component inside the cooktop. The components and their locations are shown below.

COMPONENT LOCATIONS



36["] Model

REMOVING A SEALED BURNER & IGNITOR



ELECTRICAL SHOCK HAZARD

Disconnect power before servicing the cooktop.

Replace all panels before operating cooktop.

Failure to do so can result in death or electrical shock.

FIRE HAZARD

Shut off gas supply line valve before servicing the cooktop.

Check all gas line connections and replace all panels before operating the cooktop.

Failure to do so could result in explosion, fire, or other injury.

CAUTION: When you work on the cooktop, be careful when handling the sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

- 1. Turn off the gas and electrical power going to the cooktop.
- 2. Remove the grates and burner caps from the cooktop.



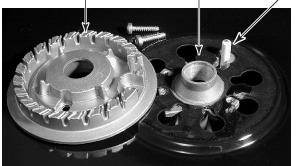
Burner Cap



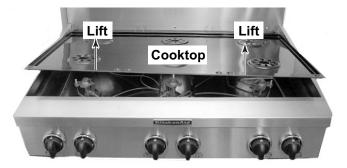


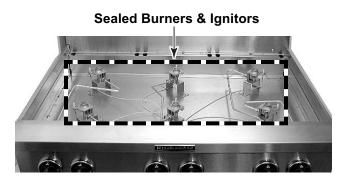
3. Use a T20 torx screwdriver and remove the two screws from each burner head, then lift the heads off the cooktop.

Burner Head Sealed Burner Ignitor

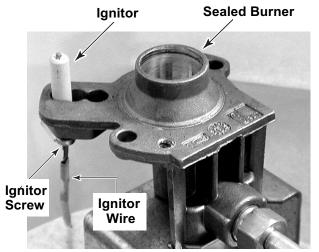


4. Lift the front of the cooktop and remove it.



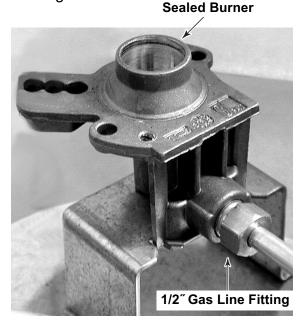


- 5. To remove an ignitor from a sealed burner:
 - a) Disconnect the ignitor wire from the terminal.
 - b) Remove the screw from the ignitor bracket.

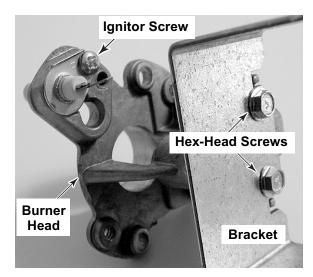


6. To remove a sealed burner:

- a) Disconnect the ignitor wire from the ignitor terminal (see step 5).
- b) Use a 1/2["] open-end or an adjustable wrench and remove the gas line fitting from the sealed burner you are replacing.



- c) Remove the two hex-head screws from the burner bracket and remove the sealed burner.
- d) Remove the screw from the ignitor bracket and remove the ignitor from the sealed burner.



REMOVING THE FRONT PANEL

ELECTRICAL SHOCK HAZARD

Disconnect power before servicing the cooktop.

Replace all panels before operating cooktop.

Failure to do so can result in death or electrical shock.

FIRE HAZARD

Shut off gas supply line valve before servicing the cooktop.

Check all gas line connections and replace all panels before operating the cooktop.

Failure to do so could result in explosion, fire, or other injury.

CAUTION: When you work on the cooktop, be careful when handling the sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

- 1. Turn off the gas and electrical power going to the cooktop.
- 2. Remove all of the knobs from the front panel by pulling them off the control shafts.



3. Remove the two lower screws from the ends of the front panel.



Front Panel Screw (1 of 2)

4. Slide the front panel down so that the five tabs are out of their slots and remove the panel.





REMOVING THE IGNITION SWITCHES & A GAS VALVE



ELECTRICAL SHOCK HAZARD

Disconnect power before servicing the cooktop.

Replace all panels before operating cooktop.

Failure to do so can result in death or electrical shock.

FIRE HAZARD

Shut off gas supply line valve before servicing the cooktop.

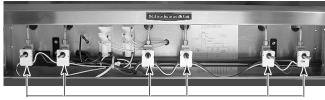
Check all gas line connections and replace all panels before operating the cooktop.

Failure to do so could result in explosion, fire, or other injury.

CAUTION: When you work on the cooktop, be careful when handling the sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

- 1. Turn off the gas and electrical power going to the cooktop.
- 2. Remove the front panel (see page 3-4 for the procedure).
- 3. To remove the ignition switches:

NOTE: The ignition switches must be replaced as an assembly. They cannot be changed individually.



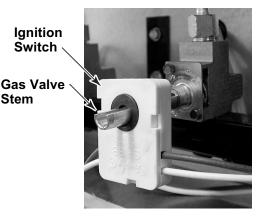
Ignition Switches

a) Remove the rubber shields from the gas valve stems.

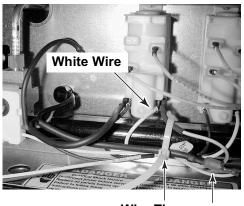


Rubber Shield

b) Pull the ignition switches off the gas valve stems.



c) Disconnect the black ignition switch wire from the harness connector and the white wire from the indicated spark module terminal.



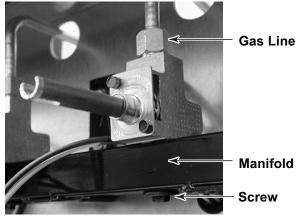
Wire Tie Black Wire Connector

d) Loosen the wire tie and pull the ignition switch wire connectors through it.

Continued on the next page.

To remove a gas valve: 4.

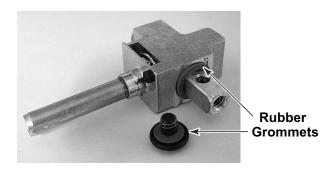
a) Remove the gas line from the gas valve.



Gas Line

REASSEMBLY NOTES:

- When installing a new gas valve, make 1. sure that the rubber grommet is in place on the valve and the mounting screw washer.
- 2. Do not overtighten the gas valve mounting screw.



b) Remove the mounting screw from the gas manifold and remove the valve and its rubber grommet from the manifold.

REMOVING A SPARK MODULE & THE POWER SUPPLY CORD



ELECTRICAL SHOCK HAZARD

Disconnect power before servicing the cooktop.

Replace all panels before operating cooktop.

Failure to do so can result in death or electrical shock.

FIRE HAZARD

Shut off gas supply line valve before servicing the cooktop.

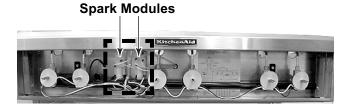
Check all gas line connections and replace all panels before operating the cooktop.

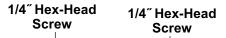
Failure to do so could result in explosion, fire, or other injury.

CAUTION: When you work on the cooktop, be careful when handling the sheet metal parts. Sharp edges may be present, and you can cut yourself if you are not careful.

- 1. Turn off the gas and electrical power going to the cooktop.
- 2. Remove the front panel (see page 3-4 for the procedure).

- 3. To remove a spark module:
 - a) Disconnect the wires from the terminals.
 - b) Use a 1/4" socket and remove the hexhead screw at the top of the module and unhook the bottom tab from the chassis slot. NOTE: The left module controls the left front (LF) and right front (RF) burners. The right module controls the center front (CF), right rear (RR), center rear (CR), and left rear (LR) burners.







Spark Module For LF & RF Burners

Spark Module For CF, RR, CR, & LR Burners

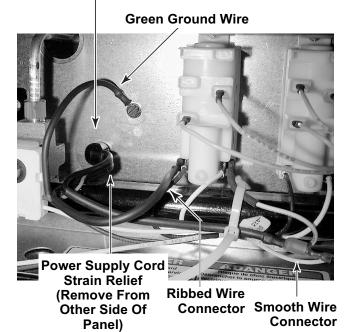
Continued on the next page.

4. To remove the power supply cord:

- a) Disconnect the ribbed wire from the indicated left spark module terminal.
- b) Disconnect the smooth wire from the main wiring harness connector.
- c) Remove the 1/4" hex head screw from the green ground wire.
- d) Remove the strain relief from the power supply cord.



Power Supply Cord



COMPONENT TESTING

Before testing any of the components, perform the following checks:

- The most common cause for control failure is corrosion on connectors. Therefore, disconnect and reconnect the wire connectors to their terminals throughout any of the test procedures.
- All tests and checks should be made with a VOM (volt-ohmmeter), or a DVM (digital voltmeter), having a sensitivity of 20,000 ohms-per-volt DC, or greater.
- Check all of the connections before you replace the components. Look for broken, or loose wires, failed terminals, or wires that are not pushed firmly onto their connectors.
- Voltage checks must be made with all connectors attached to the boards.
- Resistance checks must be made with power removed from the appliance, and with the wiring harness or connectors disconnected.

IGNITION SWITCHES

Electrical Shock Hazard

Disconnect the electrical supply from the unit before servicing.

Failure to do so could result in death or electrical shock.

TEST PROCEDURE

Refer to page 3-5 for the procedure for servicing the ignition switches.

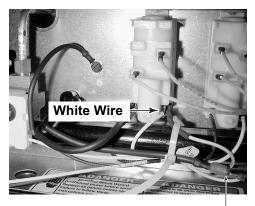
NOTE: The ignition switches will be serviced as a complete assembly. If a switch is defective, the complete assembly must be replaced.

- 1. Disconnect power to the cooktop.
- 2. Set the ohmmeter to the R x 1 scale.
- 3. Remove the front panel (see page 3-4 for the procedure).

4. Locate the black and white ignition switch connectors, (one is connected to the spark module, and the other is connected to the main wire harness), and disconnect them.



Ignition Switches



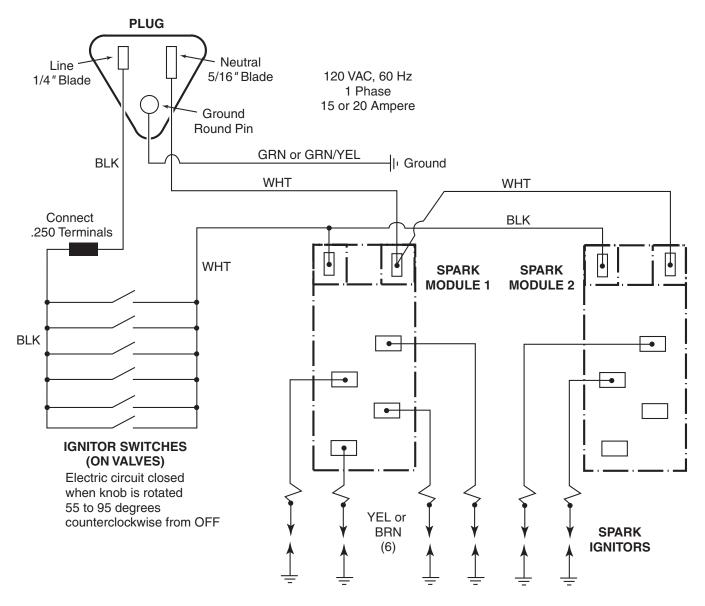
Black Wire Connector

- 5. Turn all of the switches to the Off position.
- Touch the test leads to the connectors on the black and white switch wires. The ohmmeter should indicate and open circuit (infinite ∞).
- 7. Turn each switch to the LITE position. The ohmmeter should indicate a closed circuit (0 ohms).

- NOTES -

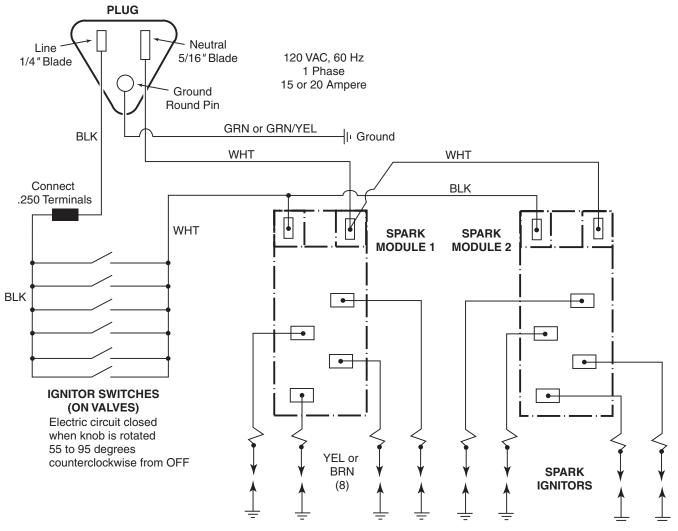
WIRING DIAGRAMS & STRIP CIRCUIT

36" MODELS

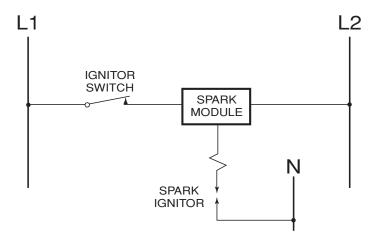


PN 3192100

48" MODELS



STRIP CIRCUIT



TECH TIPS REQUESTING ASSISTANCE OR SERVICE

If you need assistance or service in the U.S. A.:

Call the KitchenAid Consumer Assistance Center toll free, at

1-800-422-1230

If you need assistance or service in Canada:

Call the Inglis Limited Consumer Assistance Center telephone number toll-free, 8:30 a.m. to 6:00 p.m. (EST) at:

1-800-461-5681.

Our consultants are available to assist you.

When calling, please have the purchase date, and the complete model and serial number of your appliance handy. This information will help with your request.

Our consultants provide assistance with:

- Features and specifications on our full line of appliances.
- Installation information.
- Use and maintenance procedures.
- Accessory and repair parts sales.
- Specialized customer assistance (Spanish & French (Canada) speaking, hearing impaired, limited vision, etc.).
- Referrals to local dealers, service companies, and repair parts distributors.

KitchenAid service technicians are trained to fulfill the product warranty and provide afterwarranty service, anywhere in the United States. To locate the authorized KitchenAid service company in your area, you can also look in your telephone directory Yellow Pages. If you need to order replacement parts, we recommend that you only use factory authorized parts. These parts will fit right and work right, because they are made with the same precision used to build every new KitchenAid appliance.

To locate factory authorized replacement parts in your area, call our Consumer Assistance Center telephone number or your nearest authorized service center.

If you need further assistance, you can write to KitchenAid with any questions or concerns at:

KitchenAid Brand Home Appliances Consumer Assistance Center c/o Correspondence Dept. 2000 North M-63 Benton Harbor, MI 49022-2692

In Canada, contact:

Consumer Relations Department Inglis Limited 1901 Minnesota Court Mississauga, Ontario L5N 3A7

Please include a daytime phone number in your correspondence.

COOKTOP WARRANTY

LENGTH OF	KITCHENAID	KITCHENAID
WARRANTY:	WILL PAY FOR:	WILL NOT PAY FOR:
ONE-YEAR FULL WARRANTY FROM DATE OF PURCHASE.	Replacement parts and repair labor costs to correct defects in materi- als or workman- ship. Service must be provided by an authorized KitchenAid servic- ing outlet.	 A. Service calls to: 1. Correct the installation of the cooktop. 2. Instruct you how to use the cooktop. 3. Replace house fuses or correct house wiring. 4. Replace owner-accessible light bulbs. 5. Correct house plumbing. B. Repairs when the cooktop is used in other than normal, single-family household use. C. Pickup and delivery. The cooktop is designed to be repaired in the home. D. Damage to the cooktop caused by accident, alteration, misuse, abuse, fire, flood, acts of God, or use of products not approved by KitchenAid. E. Repairs to parts or systems resulting from unauthorized modifications made to the cooktop. F. In Canada, travel or transportation expenses for customers who reside in remote areas. G. Replacement parts or repair labor costs for units operated outside the United States and Canada.

KITCHENAID AND INGLIS LIMITED SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSE-QUENTIAL DAMAGES. Some states or provinces do not allow the exclusion or limitation of incidental or consequential damages, so this exclusion or limitation may not apply to you. This warranty gives specific legal rights and you may also have other rights which vary from state to state or province to province.

Outside the United States and Canada, a different warranty may apply. For details, please contact your authorized KitchenAid dealer.

If you need service, refer to the "Requesting Assistance or Service" section on the previous page. After checking "Requesting Assistance or Service," additional help can be found by calling the KitchenAid Consumer Assistance Center telephone number, **1-800-422-1230**, from anywhere in the U.S.A. In Canada, contact your authorized Inglis Limited Appliance Service company, **1-800-461-5681**.

- NOTES -

- NOTES -



