183D9705P003

24" FREE-STANDING GAS RANGE WITH ELECTRIC IGNITION

IMPORTANT SAFETY NOTICE

THIS INFORMATION IS INTENDED FOR USE BY INDIVIDUALS POSSESSING ADEQUATE BACKGROUNDS OF ELECTRICAL, ELECTRONIC AND MECHANICAL EXPERIENCE. ANY ATTEMPT TO REPAIR A MAJOR APPLIANCE MAY RESULT IN PERSONAL INJURY AND PROPERTY DAMAGE. THE MANUFACTURER OR SELLER CANNOT BE RESPONSIBLE FOR THE INTERPRETA-TION OF THIS INFORMATION, NOR CAN IT ASSUME ANY LIA-BILITY IN CONNECTION WITH ITS USE.

DISCONNECT POWER BEFORE SERVICING IMPORTANT: RECONNECT ALL GROUNDING DEVICES.

ALL PARTS OF THIS APPLIANCE CAPABLE OF CONDUCTING ELECTRICAL CURRENT ARE GROUNDED. IF GROUNDING WIRES, SCREWS, STRAPS, CLIPS, NUTS, OR WASHERS USED TO COMPLETE A PATH TO GROUND ARE REMOVED FOR SERVICE, THEY MUST BE RETURNED TO THEIR ORIGINAL POSITION AND PROPERLY FASTEDED.

BURNER OUTPUT RATINGS: BTU/HR						
Burner	BTU Rate	Orifice Size				
Surface	9,100	#54 (0.057")				
Oven	13,000	#51 (0.068")				

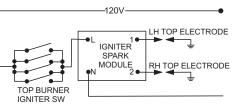
LP (PROPANE) GAS, 10" WCP							
Burner	BTU Rate	Orifice Size					
Surface	8,000	#66 (0.033")					
Oven	13,000	#58 (0.042")					

TOP BURNERS

2 + 0 Spark Ignition System

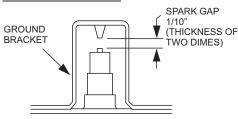
Spark Circuit Explanation - The top burners are ignited by a spark ignition system. The system consists of a spark module, two spark electrodes and four spark switches. The four spark switches are mounted to the four top burner valves.

When a top burner valve is turned to the lite position, the spark switch on that valve closes, completing a 120 volt circuit to the primary of the spark module. With this circuit compelted, the secondary of the spark module generates an output of approximately 15,000 VDC. The 15,000 VDC output is released from the module to the spark electrodes in pulses at the rate of 2 pulses per second. Each pulse results in a spark jumping across a 1/10 inch gap from the tip of the electrodes to ground. Sparking will occur at both electrodes regardless of which valve is in the lite position.

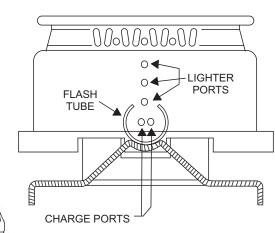


TOP BURNER SPARK IGNITION CIRCUIT

SPARK ELECTRODE



Cleaning the Ports - Charge ports and lighter ports can become clogged with steel wool particles or debris from spillovers. The ports can be cleaned using a strand of wire or similar object DO NOT ENLARGE THE PORTS when cleaning.



SPARK MODULE LOCATIONS

Note: The spark module is mounted with two tabs which snap into corresponding slots. To remove the module, use a flat blade screw driver to bend the tabs toward the module body and free the tab from the slot.

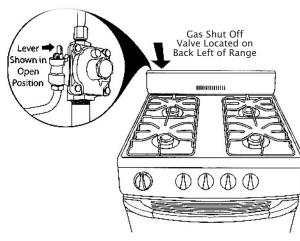
				OP BURNERS /ON'T IGNITE	Т	OP BURNEF	R PROBLEM
		ſ	DOES SPA	RKING OCCUR WITH	1		
							[!
to ;-	ANY	ARKING OCCUR WI VALVE IN "LITE"					
	NO	Ŷ	′ES				VALVE TO F
	CHECK: 1. Power to 2. Power to		s to module	SWITCH	ITY TEST APARK		
	terminal 3. Power (' times. S 4. Continuit 5. Be sure receptac 6. Continuit bracket t 7. Replace NOTE: An burner box switches al	"L" with any valve 120 volts) at spark ee note. ty test spark switch range is plugged ir	in lite. switches at nes. nto a ground de ground nd. beneath the tween the s	ded CHECK: 1. Gap betw ground n 1/10 inch 2. Continuit to power 3. Continuit module a 4. Replace	ween electrode tip nust be clean and (thickness of 2 dir ty from electrode g cord ground. ty through electrod and to electrode tip spark module.	approximately nes) round bracket e leads from	DETERMINE COMBUSTIC AREA: 1. Push aga adjust doo door gask 2. Examine backguar main top,
	uisconnect	is connected.					SC
	НІСН	ALTITUDE OUTPL		S' BTU / HR			
		NATURAL GA		,			POW
		High Altitude Rate	Ofifice Size	Prod. Service Number	L - 1	I	BEFO
	@ 3,000 FT	8050	0.054"	WB28K10304			
	@ 6,000 FT	7100	0.054	WB28K10305			
					A1 🖣		
		ALTITUDE OUTPU LP (Propane) GA		,			
		High	Ofifice	Prod. Service			R
		Altitude Rate	Size	Number	¢— -		
	@ 3,000 FT	7050	0.031"	WB28K0046			
	@ 6,000 FT	6250	0.029"	WB28K10306			
		C	Clock and	Timer (on some mo	odels) _R		R
			the tin CLOCI Touch	this pad to select her feature. K Pad this pad before		R C3 R	RF SW F
			Display	the clock. / the time of day a	and		
D W	Appearance n		the tin cook t SET +/	ne set for the time ime or start time.	er,		ті
			the ale	Paus and times	5.500		

the clock and timer.

GAS SUPPLY SHUT-OFF

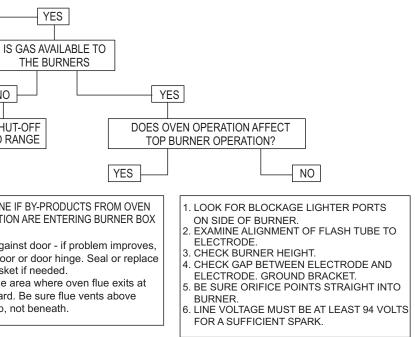
The range itself is not equipped with its own shut-off valve. If properly installed, a shut-off valve will be located behind the range near the middle (of the range).

There is a shut-off valve located on the appliance pressure regulator. This valve will shut-off gas to the oven only and does not affect top burners.



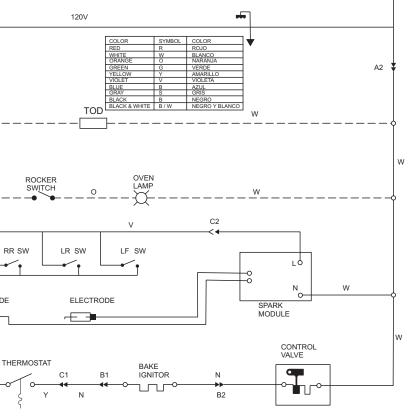
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CHEMATIC DIAGRAM

WER <u>MUST BE</u> DISCONNECTED DRE SERVICING THIS APPLIANCE



NOTE: --- THIS CIRCUIT IS NOT FOR ALL MODELS

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TECHNICAL DATA SHEET

Install the LP Orifice Spuds for

The top Burners:

supplied with the

Four L'P spuds are

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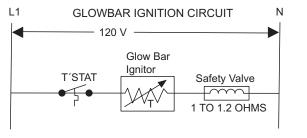
OVEN BURNER IGNITION SYSTEM

The oven burner is ignited by a glowbar ignition system. The igniter is a "Norton" style glowbar. The ignition circuit consists of the thermostat, the igniter and the oven safety valve (gas valve). The three components are wired in series.

THE MOST IMPORTANT POINTS TO KNOW ABOUT THE IGNITION SYSTEM ARE:

- 1. The igniter resistance decreases as the igniter surface temperature increases.
- 2. The safety valve operates by current not voltage.

From a cold start, the igniter needs 30-60 seconds, with voltage applied, to reduce its electrical resistance enough to provide a minimun of 2.9 amps of current flow in the series circuit. This is the required current flow needed for the safety valve to open to supply gas to the burner. The glowbar should provide a steady current flow of between 3.2 and 3.6 amps flowing in the circuit. at that point the igniter temperature is between 1800 to 2500 degrees F. The igniter will remain energized at the times during burner operation. If the igniter glows red but does not draw at least 2.9 amps the fault is usually with the igniter not the valve. Always check the oven shut-pff valve fot a "No oven" condition.



IMPORTANT: Do not place 120 volts directly accross the safety valve when testing. The resulting current through the valve would destroy the internal heater circuit.

NOTE: An open gas valve heater circuit usually indicates excessive current flow in the ignition circuit. Replacement of the igniter and valve is recommended.

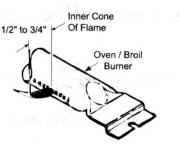
OVEN BURNER ADJUSTMENTS

The oven burner is equipped with an air shutter and a universal (NAT or LP) orifice hood and orifice needle.

- 1. Air Shutter Adjustment
- A. Remove oven door, over bottom, broiler drawer and oven valve shield.
- B. Remove flame spreader from top of burner.
- C. Turn thermostat to any BAKE temperature, observe fleme: Soft, yellow flames indicate Air Shutter
- too little primary air
- open air shutter more.
- If condition cannot be corrected with
- air shutter wide open, see Flame Size. Harsh, blowing flames indicate too much air. Reduce air
- shutter opening

NOTE: Turn the oven off before attempting to adjust the air shutter. Turn the burner on after shutter adjustment to check flame size and quality. Repeat adjustment as necessary.

2. Flame size - The inner burner flame should be between 1/2 to 3/4 inches in length with little or no yellow tipping (observed with flame spreader removed)



Screv

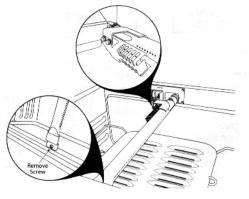
A. Flame Size Reduction.- If air shutter adjustments fail to provide proper flame length or flame characteristics, the gas flow to the burner can be reduced (no Natural Gas installations only) by turning the orifice hood slightly in teb LP direction. For best results, remove the flame spreader and observe the flame while turning the hood.

BAKE BURNER REMOVAL

·Remove oven door and broiler pan and rack, oven bottom and oven racks (Figure B)

•Remove the 2 screws that hold the safety valve cover. •Remove the screw at the front of the burner (see illustration below).

· Disconnect the two pin connector for the igniter wires. ·Remove the bake burner.



OVEN TEMPERATURE CALIBRATION

NOTE: Calibration adjustments are made by moving the knob skirt. DO NOT make any adjustments to the thermostat itself. IMPORTANT: Before making any temperature adjustments, be sure the oven thermostat capillary bulb is properly positioned in the bulb mounting clips. If capillarybulb is out of position and contacts oven wall, calibration will be incorrect. An usually dirty capillary bulb will also affect thermostat calibration.

TO ADJUST KNOB:

(As covered in the Owner's Manual)



1. Loosen screws.

2. Hold knob skirt and move knob so that the top screws (nearest arrow) moves to HOTTER to increase temperature or COOLER to decrease temperature, each notch or "click" is 10 degrees change. Maximum change from factory setting is +/- 50 degrees.

CONVERSION TO LP (PROPANE) GAS:

Convert the appliance pressure regulator. Unscrew the plastic pro-tected hex-nut cap. Remove protective plastic cap off the threaded matal cap. Pull the plastic washer off threads on the other side of the metal cap. Push the cap onto the end of the metal cap displaying the type of gas you are reconverting to. Press attached plastic washer onto the threads on the other side of the metal cap. Screw the Hexnut cat back into the regulator. Don't overtighten.

rande and are mounted in a bracket next to the regulator. Convert the Oven Burner Orifice to LP: Using a 1/2" open end wrench, turn the orifice clockwise until the orifice MMM A tightens as damage to the orifice pin below the orifice hood may result.

Natural Gas LP Gas

= Silve

=Brass



POWER I BEFORE S

manual).

Light the Oven Burner and Adjust the Air Shutter as Needed

(as covered under the "Oven Burner Adjustments" section of this

IGNITER (GLOWBAR) REPLACEMENT

The igniter/ Glowbar and its protective cage are one assembly on this Norton style igniter. The round Carborondum igniter CANNOT be substituted for the rectangular Norton igniter.

- · Remove the burner from the oven.
- See "Bake Burner Removal" in this manual.
- Remove the 1/4" hex head screws securing the igniter to the burner
- · Unplug the 2 pin harness and remove the old igniter.
- Uninstall the alow bar deflector from the old igniter and install in on the new igniter.
- Install the new igniter. If igniter scres appear to be short you are installing the glowbar incorrectly. Rotate the igniter and re-install.
- Re-install 1/4" hex head screws to secure igniter.
- · Re-install the burner.

SWITCH REMOVAL

- Remove the cooktop from the range.
- Remove the manifold panel.
 - · For any switch, rotate the square switch 15-20 degrees counterclockwise and pull the switch off the manifold.

BROILER DOOR REMOVAL

• Open broiler drawer and insert pin into inge (Figure A). Use a Phillips head screwdriver to remove the 2 screws on the broiler drawer. Slide the drawer off the honge. Do the same for the other hinge.

SURFACE: UNIT VALVE REMOVAL

- 1. Remove the switch from the valve (see switch removal section). 2. For the desired valve, remove the hex screw on manifold with a
- 1/4" wrench. 3. Lift burners off the orifices and find the orifice
- to the desired valve.
- 4. Remove hex nut from orifice holder with a 3/4 socket wrench.
- 5. Push orifice down through burner nox and remove the tube assembly from the range.
- 6. Use a $\frac{1}{2}$ wrench to remove brass nut from valve and remove the valve.

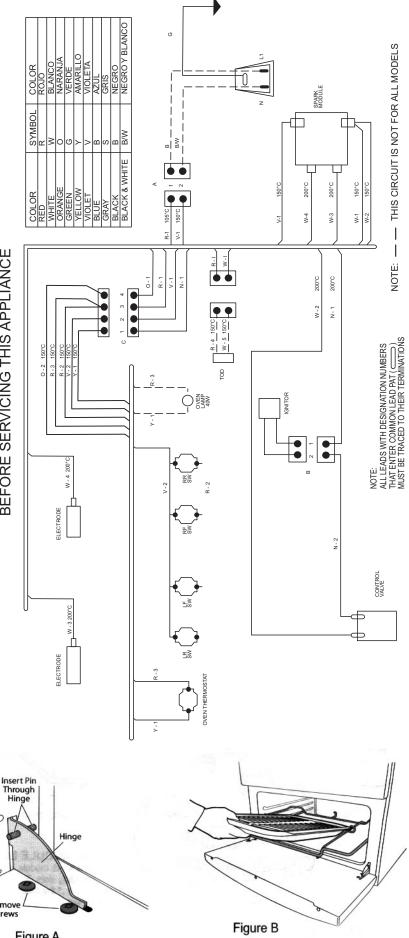


Figure A