

# USER MANUAL COMMERCIAL PASTA COOKER



**MODEL: SR-PC11-LP** 



**USR BRANDS INC.** 

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# **SAFETY PRECAUTIONS**

WARNING: IMPROPER INSTALLATION, ADJUSTMENT, ALTERATION, SERVICE OR MAINTENANCE CAN CAUSE PROPERTY DAMAGE, INJURY OR DEATH. READ THE INSTALLATION, OPERATING AND MAINTENANCE INSTRUCTIONS THOROUGHLY BEFORE INSTALLING OR SERVICING THIS EQUIPMENT.

Please call the Service Department and ask for contact information for your local service company.

Before installing and operating this equipment, be sure everyone involved in its operation is fully trained and aware of precautions. Accidents and problems can be caused by failure to follow fundamental rules and precautions.

The following symbols, found throughout this manual, alert you to potentially dangerous conditions to the operator, service personnel, or to the equipment.

<u></u> DANGER

This symbol warns of immediate hazards that will result in severe injury or death.

V WARNING

This symbol refers to a potential hazard or unsafe practice that could result in injury or death.

A CAUTION

This symbol refers to a potential hazard or unsafe practice that could result in injury, product damage, or property damage.

**NOTICE** 

This symbol refers to information that needs special attention or must be fully understood, even though not dangerous.

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

Keep area around appliances free and clear of combustibles.

Purchaser of equipment must post in a prominent location, detailed instructions to be followed in the event the operator smells gas. Obtain the instructions from the local gas supplier.

# WARNING BURN HAZARD

Contact with hot water will cause severe burns. Always use caution. Water at 200  $^{\circ}$  F is more dangerous than bwatering water.

## **△!** WARNING

In the event a gas odor is detected, shut down equipment at the combination gas valve and contact the local gas company or gas supplier for service.

#### NOTICE

Gas pasta cookers are intended for commercial use only. Not for household use.

Warranty will be void if service work is performed by other than a qualified technician, or if other than genuine replacement parts are installed.

Be sure this Operator's Manual and important papers are given to the proper authority to retain for future reference.

Congratulations! You have purchased one of the finest pieces of commercial cooking equipment on the market.

You will find that your new equipment, has been designed and manufactured to meet the toughest standards in the industry. Each equipment is carefully engineered and designs are verified through laboratory tests and field installations. With proper care and field maintenance, you will experience years of reliable, trouble-free operation. For best results, read this manual carefully.

RETAIN THIS MANUAL FOR FUTURE REFERENCE.

#### **MODELS**

This manual is for Gas Pasta cookers with 10 gallons, 11 gallons capacity tanks. The capacity is described on the serial plate that is located inside the front door on the left side.

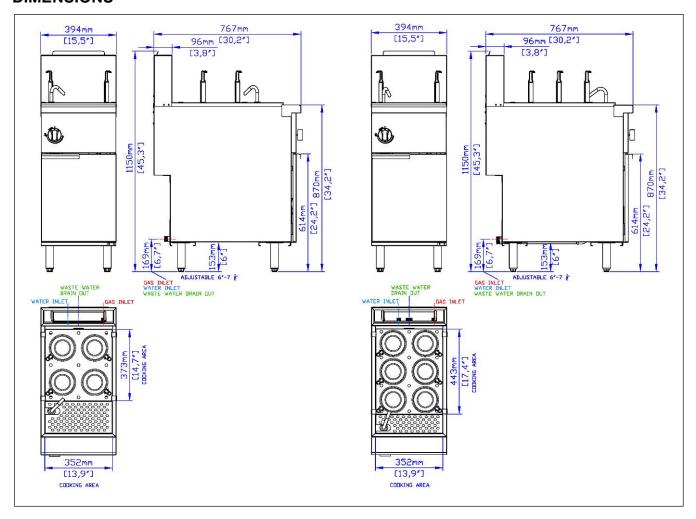
#### **Table of Contents**

Specifications	
Installation	
Operation	12
Cooking Hints	14
Cleaning	15
Service (for authorized service technician only)	16

Read these instructions carefully before attempting installation. Installation and initial startup should be performed by a qualified installer. Unless the installation instructions for this product are followed by a qualified service technician (a person experienced in and knowledgeable with the installation of commercial gas and/or electric cooking equipment) then the terms and conditions on the Manufacturer's Limited Warranty will be rendered void and no warranty of any kind shall apply.

# **SPECIFICATIONS**

#### **DIMENSIONS**



#### **Gas Supply and Burner Information**

Supply pressure should be minimum of 4" W.C. for natural gas or 10" W.C. for propane. The pasta cooker comes with  $\frac{3}{4}$ " NPT male connector on a  $\frac{1}{2}$ " pipe, allowing you to connect with either  $\frac{3}{4}$ " or  $\frac{1}{2}$ " NPT female connector.

Model	Gas Type	Manifold Pressure	Capacity of Tank	Total Rate BTUs / Hour	Orifice Size
10 gallons Pasta cooker NG	Natural	4" W.C.	10 gallons	100,000	# 51
10 gallons Pasta cooker LP	Propane	10" W.C.	10 gallons	100,000	# 56
11 gallons Pasta cooker NG	Natural	4" W.C.	11 gallons	122,000	# 54
11 gallons Pasta cooker LP	Propane	10" W.C.	11 gallons	122,000	# 64

<sup>\*</sup> Minimum supply pressure is 4" W.C. for natural gas and 10" W.C. for propane.

<sup>\*\*</sup> Orifice sizes are for units installed at altitudes between 0 and 2000 feet above sea level.

# INSTALLATION

#### NOTICE

Installation must conform with local codes, or in the absence of local codes, with the *National Fuel Gas Code, ANSI Z223.1, Natural Gas Installation Code, CAN/CGA-B149.1,* or the *Propane Installation Code, CAN/CGA-B149.2,* as applicable.

#### **NOTICE**

These installation procedures must be followed by qualified personnel or warranty will be void.

Local codes regarding installation vary greatly from one area to another. The National Fire Protection Association, Inc. states in its NFPA 96 latest edition that local codes are the "authority having jurisdiction" when it comes to installation requirements for equipment.

#### Step 1: Unpack

#### IMMEDIATELY INSPECT FOR SHIPPING DAMAGE

All containers should be examined for damage before and during unloading. The freight carrier has assumed responsibility for safe transit and delivery. If damaged equipment is received, either apparent or concealed, a claim must be made with the delivering carrier.

Apparent damage or loss must be noted on the freight bill at the time of delivery. The freight bill must then be signed by the carrier representative (Driver). If the bill is not signed, the carrier may refuse the claim. The carrier can supply the necessary forms.

- 1. Uncrate carefully. Report any hidden damage to the freight carrier IMMEDIATELY.
- 2. Do not remove any tags or labels until unit is installed and working properly.

#### Step 2: INSTALL THE LEGS (OR OPTIONAL CASTERS) AND RESTRAINTS

A set of legs is packed with the pasta cooker. Casters are optional, purchased separately. Mounting fasteners are pre-mounted on the base plates.

- Raise pasta cooker sufficiently to allow legs or casters to be screwed into the base plate. For safety, "shore up" and support the pasta cooker with an adequate blocking arrangement strong enough to support the load.
- 2. Screw the four legs or casters to the plate on the bottom of the pasta cooker. When casters have been ordered, the casters having a locking-brake should be attached under the front of the pasta cooker.
  - 3. Lower the pasta cooker gently. Never drop or allow the pasta cooker to fall.
  - 4. Use a level to make sure that the pasta cooker is level. Each caster, or the tubular-end of each leg, can be screwed in or out to lower or raise each corner of the pasta cooker.
  - 5. Attach restraints as required by local codes.
- 6. Raise pasta cooker sufficiently to allow legs or casters to be screwed into the base plate. For safety, "shore up" and support the pasta cooker with an adequate blocking arrangement strong enough to support the load.
- 7. Screw the four legs or casters to the plate on the bottom of the pasta cooker. When casters have been ordered, the casters having a locking-brake should be attached under the front of the pasta cooker.
  - 8. Lower the pasta cooker gently. Never drop or allow the pasta cooker to fall.
  - 9. Use a level to make sure that the pasta cooker is level. Each caster, or the tubular-end of each leg, can be screwed in or out to lower or raise each corner of the pasta cooker.
  - 10. Attach restraints as required by local codes.

#### **NOTICE**

Unit must be level to assure maximum performance. Improper leveling may void warranty.

#### NOTICE

When this appliance is installed with casters, it must be installed with the casters supplied, a connector complying with either ANSI Z21.69 CSA 6.16 and a quick-disconnect device complying with ANSI Z21.41 CSA 6.9. It must also be installed with restraining means to guard against transmission of strain to the connector, as specified in the appliance manufacturer instructions.

# ⚠ WARNING

If disconnection of the restraint is necessary to move the appliance for cleaning, etc., reconnect it when the appliance is moved to its original installed position.

# / WARNING

When this appliance is installed with casters, it must be installed with the casters supplied, a connector complying with either ANSI Z21.69 or CAN/CGA-6.16 and a quick disconnect device complying with either ANSI Z21.41 or CAN1-6.9. It must also be installed with restraining means to guard against transmission of strain to the connector, as specified in the appliance manufacturer's instructions.

## / WARNING

All pasta cookers must be restrained to prevent tipping in order to avoid the splashing of hot liquid. The means of restraint may be the manner of installation.

#### **Step 3: Flue Installation**

1. Unpack the flue box and flue wrap







2. Slide the flue box over the flue and secure it with the two self-tapping screws using a 5/16" socket





3. Slide the flue wrap over the flue



4. Secure it with four self-tapping screws two on the back and one on each side using a 5/16" socket





Step 4: Check Clearances and Ventilation

Select a firm, level location for your pasta cooker. Leave clearance, whenever possible, so that access from the rear is possible to permit cleaning. If the unit is to be set on non-combustible flooring, such as a concrete slab, 3 inches minimum toe room must be provided to prevent restriction of the air opening in the bottom of the unit.

# riangle! Warning

There must be adequate clearance between pasta cooker(s) and construction. Clearance must also be provided in front for servicing and for operation.

Minimum Clearances:

From Combustible Construction

Sides 6 inches
Rear 6 inches

ALL GAS FLOOR MODEL PASTA COOKERS SHALL BE INSTALLED WITH AT LEAST A 16 INCH SPACE BETWEEN THE PASTA COOKER AND SURFACE FLAMES FROM ADJACENT EQUIPMENT. A FLAME GUARD IS ACCEPTABLE IF ALLOWED UNDER LOCAL CODE.

No additional side and rear clearance is required for service as the pasta cooker is serviceable from the front.

# 

Improper ventilation can result in personal injury or death. Ventilation that fails to properly remove flue products can cause headaches, drowsiness, nausea, or could result in death.

Unit Must be installed under a ventilation hood

All units must be installed in such a manner that the flow of combustion and ventilation air is not obstructed. Provisions for adequate air supply must also be provided. Do NOT obstruct the bottom front of the unit, as combustion air enters through this area. Be sure to inspect and clean the ventilation system according to the ventilation equipment manufacturer's instructions.

Due to the variety of problems that can be caused by outside weather conditions, venting by canopies or wall fans is preferred over any type of direct venting. It is recommended that a canopy extend 6" past the appliance and the bottom edge be located 6'6" from the floor. Filters should be installed at an angle of 45° or more from the horizontal. This position prevents dripping of grease and facilitates collecting the run-off grease in a drip pan, unusually installed with a filter. A strong exhaust fan tends to create a vacuum in the room and may interfere with burner performance or may extinguish pilot flames. Fresh air openings approximately equal to the fan area will relieve such a vacuum. In case of unsatisfactory performance on any appliance, check the appliance with the exhaust fan in the "OFF" position. Do this only long enough to check equipment performance, then turn hood back on and let it run to remove any exhaust that may have accumulated during the test.

The exhaust fan should be installed at least 2 feet above the vent opening at the top of the pasta cooker.

Make sure all ventilation meet local code requirement

This unit is not intended to be connected directly to an outside flue.

#### **Step 5: Gas connection**

A 3/4" male NPT line for the gas connection is located near the lower right rear corner of the pasta cooker. The serial plate (located inside the front door of the pasta cooker) indicates the type of gas the unit is equipped to burn (natural gas or propane). The pasta cooker should be connected ONLY to the type of gas for which it is equipped.

A circuit diagram is located inside the front door of the pasta cooker.

This equipment is adjusted at the factory; however, pilot height should be checked at installation and adjusted, if necessary.

For orifice sizes and pressure regulator settings, see the chart on page 4. If the pasta cooker is being installed at over 2,000 feet altitude and that information was not specified when ordered, contact the appropriate authorized Service Representative or the Service Department. Failure to install with proper orifice sizing will result in poor performance and may void the warranty.

If applicable, the vent line from the gas appliance pressure regulator shall be installed to the outdoors in accordance with local codes or, in the absence of local codes, with the *National Fuel Gas Code, ANSI Z223.1*, *Natural Gas Installation Code, CAN/CGA-B149.1*, or the *Propane Installation Code, CAN/CGA-B149.2*, as applicable.

An adequate gas supply is imperative. Undersized or low pressure lines will restrict the volume of gas necessary for satisfactory performance. A combination gas valve and pressure regulator, which is provided with each unit, is set to maintain a 4" W.C. manifold pressure for natural gas or 10.0" W.C. manifold pressure for propane gas. However, to maintain these conditions the pressure on the supply line, when all units are operating simultaneously, should not drop below 7" W.C. for natural gas or 11" W.C. for propane gas. Fluctuations of more than 25% on natural gas or 10% on propane gas will create problems and affect burner operating characteristics. A 1/8" tap to measure the manifold pressure is located on the combination gas valve, which is on the burner manifold located directly below the burners inside the cabinet.

Purge the supply line to clean out dust, dirt, or other foreign matter before connecting the line to the unit.

It is recommended that an individual manual shutoff valve be installed in the gas supply line to the unit.

Use pipe joint compound that is suitable for use with both natural and LP gas on all threaded connections.

## **!** CAUTION

ALL PIPE JOINTS AND CONNECTIONS MUST BE TESTED THOROUGHLY FOR GAS LEAKS. USE ONLY SOAPY WATER FOR TESTING ON ALL GASES. NEVER USE AN OPEN FLAME TO CHECK FOR GAS LEAKS. ALL CONNECTIONS MUST BE CHECKED FOR LEAKS AFTER THE UNIT HAS BEEN PUT INTO OPERATION. TEST PRESSURE SHOULD NOT EXCEED 14" W.C.

## P CAUTION

THIS APPLIANCE AND ITS INDIVIDUAL COMBINATION GAS VALVE MUST BE DISCONNECTED FROM THE GAS SUPPLY PIPING SYSTEM DURING ANY PRESSURE TESTING OF THAT SYSTEM AT TEST PRESSURES IN EXCESS OF 14"WC (1/2 PSIG or 3.45 kPa).

If the incoming gas pressure is in excess of 14"WC (1/2PSI, 3.45 kPa), a proper step-down regulator will be required. See PHOTO 1 for LP application

Connect the gas supply directly to the 3/4" male NPT connector located near the lower left rear corner of the pasta cooker. When tightening the supply pipe, be sure to hold the mating connector extending from the unit securely with a wrench. This will prevent any damage or distortion to the internal piping and controls of the unit

After connecting the gas supply, check again that the pasta cooker is level. Use a long spirit level four ways; across the front and rear of the tank, and along each edge.

Propane Applications;
Proper Regulator Must Be Installed

Regulator

PHOTO 1

# **OPERATION**

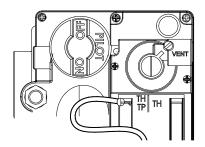
#### LIGHTING



IF YOU SMELL GAS DURING THE LIGHTING PROCEDURE, IMMEDIATELY SHUT OFF THE GAS SUPPLY UNTIL THE LEAK HAS BEEN CORRECTED.

Open the burner compartment door and do the following:

- 1. Turn thermostat to "OFF"
  - 2. Press down the knob of the combination gas valve, turn it counterclockwise to the "PILOT" position (shown), and continue to press the knob down.



- 3. While pressing the knob down, use a lit match to ignite the pilot. Continue to press the knob down for about 30 seconds. If the pilot does not stay lit when the knob is released, repeat the lighting procedure and keep the knob down longer. Adjustment of pilot flame may be necessary.
- 4. When the pilot stays lit, turn the knob counterclockwise to the "ON" position. Do not press down on the knob in this step.
- 5. Do NOT turn the thermostat "ON" until the tank is filled with water or solid shortening.
- 6. Once the tank is filled with shortening, set the thermostat to the desired temperature

#### FILLING THE TANK

- 1. Close drain valve completely before filling the tank.
- 2. When the pasta cooker is new, fill the tank with water and clean thoroughly (see "Weekly Cleaning" on page 15) in order to remove protective coatings and any foreign matter.
- 3. The recommended solid shortening capacity for the tank (10 or 11 gallons) is described on the serial plate (which is located inside the front door).
- 4. Remove the basket support frame when filling the tank with solid shortening.
- 5. When solid shortening is used, be careful not to bend, break, or twist the thin capillary wires of the sensing elements located in the tank.
- 6. Pack solid shortening into the zone below the tubes, all spaces between the tubes, and at least an inch above the top of the tubes before lighting the pasta cooker. If any air spaces are left around the heat tube surfaces when the heat is turned on, the tube surfaces will become red hot, burn the solid shortening, weaken the tank, and could result in a fire.



NEVER ATTEMPT TO MELT A SOLID BLOCK OF SHORTENING ON TOP OF THE HEAT TUBES.

NEVER START THE BURNERS WHEN THE TANK IS EMPTY.

- 7. To prevent burning or scorching the solid shortening, keep the thermostat set at the lowest temperature until all the solid shortening between and above the tubes has been melted. Additional solid shortening can then be added until the desired frying depth has been reached.
- 8. Replace the basket support frame over the tank heat tubes.

#### SHUTDOWN PROCEDURE

Standby: Turn knob on the combination gas valve to the "PILOT" position. At this setting, only the pilot burner will remain ignited.

Complete Shutdown: Turn knob on the combination gas valve clockwise, press down on the knob and continue to turn to the "OFF" position.

#### RELIGHTING



In the event of a main burner ignition failure, a five minute purge period must be observed prior to reestablishing the ignition source.

- 1. Shut off all gas.
  - 2. Wait five minutes.
  - 3. Follow the "Lighting" procedure described on page 12.

#### **AUTOMATIC PILOT VALVE**

The Automatic Pilot Valve provides an automatic safety shutoff for the pasta cooker when the pilot flame is extinguished. When the pilot flame is burning, the valve is held open electromagnetically by the electrical current from a thermopile in the pilot flame. When the pilot flame goes out, generation of current ceases and the valve closes automatically.

#### **HIGH LIMIT CONTROL**

Gas pasta cookers are equipped with a secondary heat control that prevents the tank temperature from rising above 266°F. (Because of the accuracy tolerance of the sensor,

In the event the pasta cooker shuts down due to this condition, the water must be cooled to below 266°F before the pilot burner can be re-ignited. When the water has cooled, use the "Lighting" procedure on page 12 to place the pasta cooker back in operation. If the problem persists, contact your local Service Representative or the Service Department.

# **COOKING HINTS**

#### **USER TIPS**

- Smoking water means that the temperature is too high, or that the water has broken down.
- Gum in tank denotes a need for thorough cleaning (see "Weekly Cleaning" on page 15)
- Use different water for watery foods (mackerel, nutmeg, etc.) than for foods with water-soluble flavors (potatoes, onions, etc.).
- · Taste cool water for quality. Replace it regularly.
- · Poor water cannot produce good food.

#### WATER INLET CONNECTION

Make sure

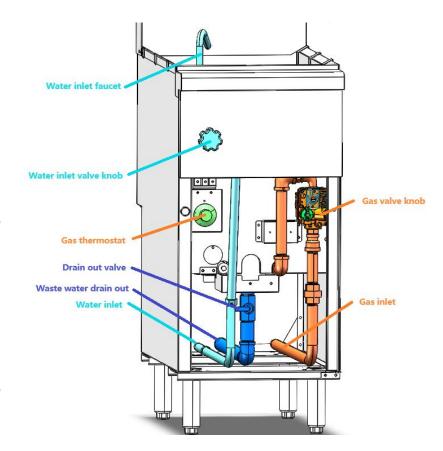
- 1). the gas turn off,
- 2). The drain out closed,
- 3). The water faucet is aligned with tank.
- 4). Turn off the water inlet valve knob, Connect the water hose to the straight pipe behind the unit. Lock the connection keep not leak.

# WASTE WATER DRAIN OUT CONNECTION

Make sure

- 1). the gas turn off,
- 2). The drain out closed,

Connect the water outlet hose to the straight pipe behind the unit. Lock the connection keep not leak.



# **CLEANING**

The equipment is constructed with the best quality materials and is designed to provide durable service when properly maintained. To expect the best performance, your equipment must be maintained in good condition and cleaned daily. Naturally, the frequency and extent of cleaning depends on the amount and degree of usage.

Following daily and more extensive periodic maintenance procedures will increase the life of your equipment. Climatic conditions (e.g., salt air) may result in the need for more thorough and more frequent cleaning in order to keep equipment performing at optimal levels.



#### **WARNING: BURN HAZARD**

If necessary to move the pasta cooker for cleaning, etc., drain water first to avoid death or serious injury.



#### **WARNING**

If disconnection of the restraint is necessary to move the appliance for cleaning, etc., reconnect it when the appliance is moved to it originally installed position.

#### **DAILY CLEANING**

- 1. Turn thermostat knob to "OFF" position.
- 2. Place hot-water in a safe container under the drain and drain the tank completely.
- 3. Remove the basket support frame (if applicable) and flush out any sediment remaining in the tank with a little hot water.
- 4. Wipe off the basket support frame and the inside of the tank with a clean cloth.



#### CAUTION

#### SOME AREAS OF THE TANK MAY BE HOT!

- 5. Close drain valve and strain the water back into the tank through several thicknesses of cheesecloth, or filter it back using a filter machine.
- 6. Replace the basket support frame (if applicable)
- 7. Add water or shortening to MIN water level mark on rear of tank.
- 8. To resume cooking, turn the combination gas valve knob to "ON" position.

#### **WEEKLY CLEANING**

- 1. Follow steps 1 through 4 of the Daily Cleaning procedure (see previous section).
  - 2. Close drain valve and fill tank with a solution of warm water and bwater-out compound
  - 3. Relight the pasta cooker and bring the solution to a gentle bwater for at least five minutes.
  - 4. Turn off main burners and let the solution stand until the gum deposits are softened and the carbon spots and burned grease spots can be rubbed off.
  - 5. Scrub the tank walls and heat tubes, then drain out tank and rinse it with clean water.

- 6. Refill the tank with clean water and bwater again.
- 7. Turn off gas and drain and rinse well until clean.
- 8. Wipe dry with a clean cloth.
- 9. Refill as specified in the "Filling the Tank" section (see page 13).

#### MONTHLY CLEANING

- 1. Perform the Weekly Cleaning procedure (see previous section).
- 2. Clean around burner and orifices if lint has accumulated.
- 3. Visually check that burner carry-over ports are unobstructed.

#### **CLEANING STAINLESS STEEL SURFACES**

To remove normal dirt, grease and product residue from stainless steel use ordinary soap and water (with or without detergent) applied with a sponge or cloth. Dry thoroughly with a clean cloth. Never use vinegar or any corrosive cleaner.

To remove grease and food splatter or condensed vapors that have baked on the equipment apply cleanser to a damp cloth or sponge and rub cleanser on the metal in the direction of the polishing lines on the metal. Rubbing cleanser, as gently as possible, in the direction of the polished lines will not mar the finish of the stainless steel. NEVER RUB WITH A CIRCULAR MOTION. Soil and burnt deposits that do not respond to the above procedure can usually be removed by rubbing the surface with SCOTCH-BRITE™ scouring pads or STAINLESS scouring pads. DO NOT USE ORDINARY STEEL WOOL, as any particles left on the surface will rust and further spoil the appearance of the finish. NEVER USE A WIRE BRUSH, STEEL SCOURING PADS (EXCEPT STAINLESS), SCRAPER, FILE OR OTHER STEEL TOOLS. Surfaces that are marred collect dirt more rapidly and become more difficult to clean. Marring also increases the possibility of corrosive attack. Refinishing may then be required.

Darkened areas, called "heat tint," sometimes appear on stainless steel surfaces where the area has been subjected to excessive heat. These darkened areas are caused by thickening of the protective surface of the stainless steel and are not harmful. Heat tint can normally be removed by the above cleaning techniques, but tint which does not respond to that procedure calls for a vigorous scouring in the direction of the polish lines, using SCOTCH-BRITE™ scouring pads or a STAINLESS scouring pad in combination with a powered cleanser. Heat tint action may be lessened by not applying or by reducing, heat to equipment during slack periods.

# SERVICE (FOR AUTHORIZED SERVICE TECHNICIAN ONLY)

#### NOTICE

Warranty will be void and the manufacturer is relieved of all liability if:

(A) Service work is performed by other than a qualified technician (see page 30 for detail) OR

(B) Other than approved replacement parts are installed.



Adjustments and service work may be performed only by a qualified technician who is experienced in, and knowledgeable with, the operation of commercial gas cooking equipment. However, to assure your confidence, contact your Service Representative for reliable service, dependable advice or other assistance, and for genuine factory parts.

All units are adjusted at the factory. In case of problems in operation at initial installation, check type of gas and manifold pressure and compare with information listed on the serial plate.

A mill voltage circuit diagram is located inside the front door of the pasta cooker.

#### **Checking and Adjusting Pressure Regulator**

The combination gas valve (includes pressure regulator) is factory set at 4" W.C. for natural gas and 10" W.C. for propane gas. To check the manifold pressure, do the following:

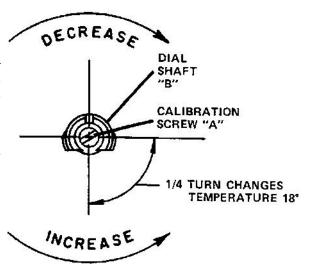
- 1. Turn thermostat "OFF" and combination gas valve knob to the "PILOT" setting.
  - 2. Remove pressure tap plug from burner manifold located directly below the burners in the cabinet.
  - 3. Install a fitting appropriate to connect a manometer.
  - 4. Turn combination gas valve to "ON" position and thermostat to "ON." The burners will ignite. Be certain that sufficient water is covering the tubes.
  - 5. With burners on, read manometer.
  - 6. If the manometer does not read 4" W.C. for natural gas, or 10" W.C. for propane gas, adjust regulator.
  - 7. Remove regulator adjustment screw cap (see diagram on page 15).
  - 8. With small screwdriver rotate adjustment screw "CLOCKWISE" to increase or "COUNTERCLOCKWISE" to decrease pressure. Be sure to adjust with burners "ON."
  - 9. Turn thermostat "OFF" and set combination gas valve knob to "PILOT" position.
  - 10. Remove manometer and replace pressure tap plug.
  - 11. Replace adjustment screw cap.

#### CHECKING AND ADJUSTING CALIBRATION OF THERMOSTAT

All thermostat controls are carefully calibrated at the factory (i.e., the dial is properly set to control appliance temperatures accurately). Only a qualified appliance service technician should perform this adjustment.

- 1. To check appliance temperatures, use a thermocouple-type temperature test instrument or reliable thermometer. Place the thermocouple of test instrument or thermometer in the center of the tank.
- 2. Turn the control dial to the temperature setting requiring the greatest accuracy. Allow enough time for temperature to stabilize, or until several temperature readings are identical.
- 3. Recalibrate if setting and actual temperature differ by more than 10°F.

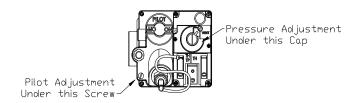
- 4. Remove dial from dial shaft "B." Be careful that dial shaft does not rotate in either direction (which would change the dial setting).
- 5. Hold dial shaft "B" steady and with a screwdriver turn calibration screw "A" clockwise to decrease the temperature, or counterclockwise to increase the temperature.
  - 6. Replace dial. Let the appliance operate until the temperature has stabilized before a final check is made to determine whether or not the calibration has been corrected.
  - 7. Once correct, seal the calibration screw with glyptol.



#### **CHECKING AND ADJUSTING AUTO SAFETY PILOT**

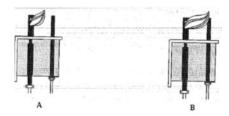
The pilot flame should surround the thermopile for 1/2". It must be large and sharp enough to cause the thermopile to glow a dull red, or sufficient to hold the safety valve open.

1. Remove pilot adjustment cap



2. Adjust pilot key to provide properly sized flame shown in diagram B.

Diagram A shows an improperly adjusted pilot



3. Replace pilot adjustment cap.

#### **TROUBLESHOOTING**

Problem	Probable Cause	Corrective Action		
Burner does not light at all	A. Pilot is not lit.	A. Light pilot.		
	B. Loose. dirty, or corroded terminals on gas valve.	B. Clean and tighten terminals on gas valve.		
	C. Loose. dirty. or corroded terminals on thermostat.	C. Clean and tighten terminals on thermostat.		
	D. Thermostat. gas valve, or hi-limit wires broken or shorted.	D. Examine wires for signs of abrasions, cuts, Kinks, etc, If the wiring is obviously damaged. It will probably be necessary to replace the associated component.		
	E. Thermostat out of calibration.	E. Cheek calibration of thermostat in accordance with procedures in Section 4.2 of this manual.		
	F. If the above causes have all been ruled out, the probable causes area failed thermostat or a failed gas valve.	F. Call technic service.		
Burner does not light all the	A. One or more burner orifices clogged.	A. Turn gas valve knob to OFF position. Use thin wire to clear obstruction from burner orifices.		
way around.	B. Blocked flue.	B. Clear blockage from flue.		
way around.	C. Pasta cooker flue connected directly to vent hood with a chimney-like duet.	C. Remove chimneylike duct and allow for at least 18"(45.7cm) between flue outlet and vent hood filters.		
	D. If the above causes have all been ruled out the probable causes area broken or missing target a bent or missing flame deflector or incorrect burner gas pressure.	D . Call technic service.		

