

IMPORTANT FOR FUTURE REFERENCE

Please complete this information and retain this manual for the life of the equipment.

MODEL #_

SERIAL#

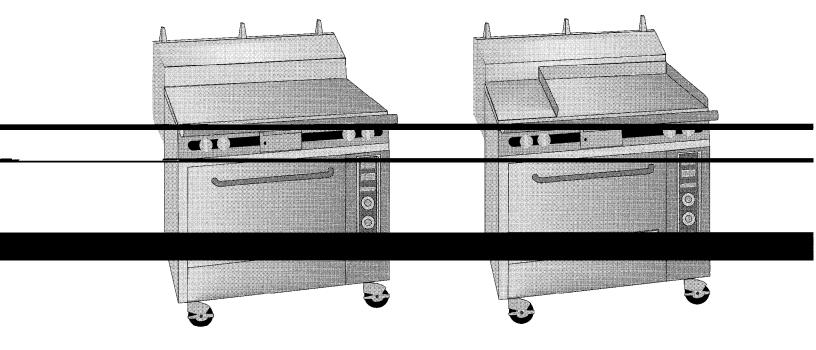
DATE PURCHASED

OPERATOR'S MANUAL

INSTALLATION
OPERATION AND MAINTENANCE INSTRUCTIONS

WENDY'S RANGE

MODEL: CO300HT AND CO301HT



⚠ WARNING

Improper installation, service, or maintenance can cause property damage, injury or death. Read the installation, operation and maintenance instructions thoroughly before installing and operating this equipment.

1100 Old Honeycutt Road · Fuquay-Varina, NC 27526 · (919) 552-9161 · FAX (919) 552-9798 · (800) 348-2558

Middleby Corp. Service Hot Line (800) 238-8444 (after hours)







\$18.00

WENDY'S RANGE (MANUAL SECTION RR) Congratulations! You have purchased one of the finest pieces of heavy-duty commercial cooking equipment on the market.

You will find that your new equipment, like all Southbend equipment, has been designed and manufactured to meet the toughest standards in the industry. Each piece of Southbend 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.

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Location of Serial and Identification Plates: The serial plate with all specifications is located below the oven door, behind the kick panel, attached to the frame base of the oven. Reference figure 1 item "B". There is also a product identification plate that has only the model and serial number attached to the front left corner of the valve panel.

Read these instructions carefully before attempting installation. "Installation" and "Start Up" should be performed by a qualified installer. Unless the installation instructions for the above-described Southbend product are followed and performed 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 of the Manufacturer's Limited Warranty will be rendered void and no warranty of any kind shall apply.

In the event you have questions concerning the installation, use, care, or service of the product, write to the Technical Service Department, Southbend, 1100 Old Honeycutt Road, Fuquay-Varina, North Carolina 27526.

NOTICE

This product is intended for commercial use only; not for household use.

IMMEDIATELY INSPECT FOR SHIPPING DAMAGE

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

- A) 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.
- B) A request for inspection must be made to the carrier within 15 days if there is concealed damage or loss that is not apparent until after the equipment is uncrated. The carrier should arrange an inspection. Be certain to hold all contents plus all packing material.



A MIDDLEBY COMPANY

1100 Old Honeycutt Road Fuquay-Varina, NC 27526 (919) 552-9161 FAX (919) 552-9798 (800) 348-2558

SAFETY PRECAUTIONS

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.



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



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



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

NOTICE

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

POST IN PROMINENT LOCATION

The emergency telephone number of your gas supplier and instructions to follow if gas odor is detected.

⚠ DANGER EXPLOSION HAZARD

If a gas odor is detected, shut down equipment at the main shut-off valve. Immediately call the emergency phone number of your gas supplier.

MARNING FIRE HAZARD

For your safety, 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.

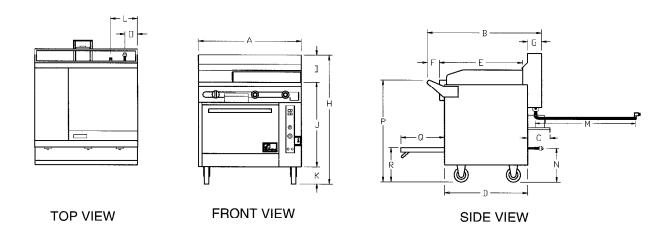
⚠ WARNING

Asphyxiation can result from improper ventilation. Do not obstruct the flow of combustion and ventilation air to and from your cooking equipment.

NOTICE

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

WENDY'S GAS RANGE WITH CONVECTION OVEN MODEL CO-301HT-94A



Dimensions:

() = Millimeters

					E	XTERIC	R					¾" GAS	CONN.	ELECT	TRIC	Cook	Door	Oven
MODEL	A Width	B Depth	С	D	Ш	F	G	Н	ı	J	К	L	М	N	0	Top P	Opening Q	Bottom R
WENDY'S GAS RANGE		41.00" (1042)	8" (203)	30" (762)	29.375" (746)	4.250" (108)	5" (127)	45.5" (1156)	11.875" (302)	28.750" (730)	6" (152)	9.500" (241)	36" (914)	12.5" (315)	4.5" (115)	36" (914)	15.5" (394)	13.5" (345)

	OVI	EN INTERIOF	3	BURNERS (BTU each)			(CRATE SIZE			
MODEL	Width	Depth	Height	Hot Top	Oven	Griddle	Width	Depth	Height	Cubic Volume	Crated Weight
WENDY'S GAS RANGE	26.125" (664)	21.75" (552)	14.25" (362)	1 (20,000)	1 (25,000)	2 (30,000)	55" (1397)	45.5" (1156)	45" (1143)	118 cu. ft. 3.33 cu. m.	705 lbs. 317 kg.

UTILITY INFORMATION:

GAS -

Total 105,000 BTU. One 3/4" flex hose male connection. (For location, see drawing above items "L" and "M").

Natural

Propane

Required operating pressure: Natural Gas 4" W.C.

Propane Gas 10" W.C.

Incoming gas line and connections must not be smaller than 3/4" I.D.

ELECTRIC -

STANDARD: 115/60/1 - furnished with 5 ft. cord with 3-prong

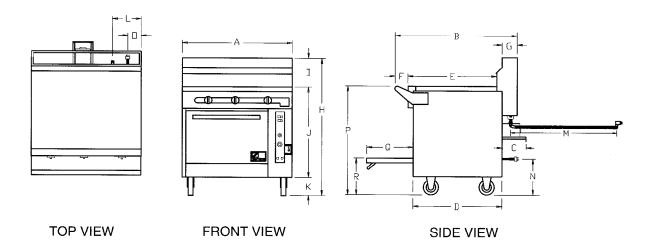
plug. Total maximum amps 6.2. OPTIONAL: 208/60/1 or for use on 3 (190 to 219 volts) - supply

must be wired to junction box with terminal block located at rear. Total maximum amps 4.0.

OPTIONAL: 340/60/1 or for use on 3 (220 to240 volts) - supply must be wired to junction box with terminal block

located at rear. Total maximum amps 4.0.

WENDY'S CHILI RANGE WITH CONVECTION OVEN MODEL CO-300HT-94A



Dimensions:

() = Millimeters

		EXTERIOR									3⁄4" GAS	CONN.	ELEC	TRIC	Cook	Door	Oven	
MODEL	A Width	B Depth	С	D	E	F	G	Н	***	J	К	L	М	N	0	Top P	Opening Q	Bottom R
WENDY'S GAS RANGE	36.5" (927)	41.00" (1042)	8" (203)		29.375" (746)	4.250" (108)	5" (127)	45.5" (1156)	11.875" (302)	28.750" (730)	6" (152)	9.500" (241)	36" (914)	12.5" (315)	4.5" (115)	36" (914)	15.5" (394)	13.5" (345)

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MODEL	Width	Depth	Height	Hot Top	Oven	Width	Depth	Height	Cubic Volume	Crated Weight
WENDY'S GAS RANGE	26.125" (664)	21.75" (552)	14.25" (362)	3 (20,000)	1 (25,000)	55" (1397)	45.5" (1156)	45" (1143)	118 cu. ft. 3.33 cu. m.	705 lbs. 317 kg.

UTILITY INFORMATION:

GAS -

Total 85,000 BTU. One 3/4" flex hose male connection. (for location, see drawing above items "L" and "M").

NATURAL PROPANE

Required operating pressure: Natural Gas 4" W.C.

Propane Gas 10" W.C.

Incoming gas line and connections must not be smaller than 3/4" I.D.

ELECTRIC -

STANDARD: 115/60/1 - furnished with 5 ft. cord w/ 3-prong plug. Total maximum amps 6.2.

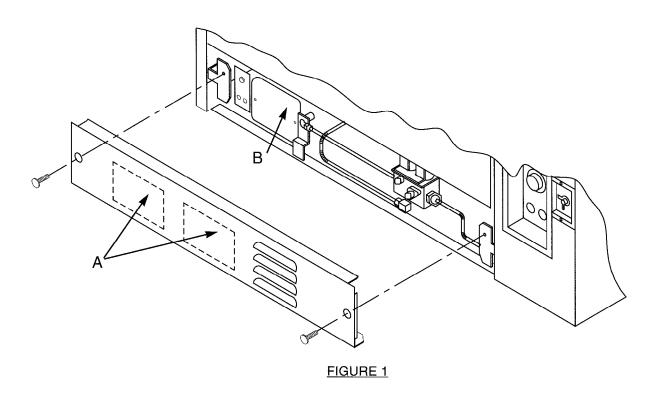
OPTIONAL: 208/60/1 or for use on 3 (190 to 219 volts) - supply must be wired to junction box with terminal block located at rear. Total maximum amps 4.0.

OPTIONAL: 240/60/1 or for use on 3 (220 to 240 volts) - supply must be wired to junction box with terminal block located at rear. Total maximum amps 4.0.

LOCATION OF WIRING DIAGRAMS ON UNIT:

Electrical diagrams (1165911 and 1165912) are located on the reverse side of range kick panel (item "A") in figure 1 (below).

Be sure that the input voltage and phase match the requirements shown on the serial plate (item "B") in figure 1 below. A positive ground connection is essential.



NOTICE

Southbend reserves the right to change specifications and product design without notice. Such revisions do not entitle the buyer to corresponding changes, improvements, additions, or replacements for previously purchased equipment.

NOTICE

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

GENERAL:

NOTICE

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

The unit, when installed, must be electrically grounded and comply with local codes, or in the absence of local codes, with the National Electrical Code ANSI/NFPA 70-latest edition, or the Canadian Electrical Code, CSA C22.2, as applicable.

Gazadian installation must appeal with CANI/COA D4464 muta-land

or local codes.

GAS CONNECTION:

The Serial Plate is located inside unit behind kick panel item "B" on figure 1. It indicates the type of gas the unit is equipped to burn. All Southbend equipment is adjusted at the factory. Check type of gas on serial plate.

These models are design-certified for operation on natural or propane gases. For natural gas, the regulator is set to deliver a 4" W.C. pressure to the manifold. For propane gas, it is set to deliver 10" W.C.

This appliance should be connected ONLY to the type of gas for which it is equipped.

An adequate gas supply is imperative. Undersized or low pressure lines will restrict the volume of gas required for satisfactory performance. Fluctuations of more than 25% on natural gas or 10% on propane gas will create problems and affect burner operating characteristics. A 1/8" pressure tap is located on the manifold to measure the manifold pressure.

An adequate gas supply line to the unit should be no smaller than the I.D. of the pipe from the unit to which it is connected.

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

All pipo joints and connections must be tested thereughly for one looks. Her only econy water for testing as all econy

put into operation. Test pressure should not exceed 1/4" W.C.

Unit equipped with factory installed certified gas quick-disconnect device. Reference additional installation required for restraining device, see figure 5 of this document.

⚠ WARNING

This appliance and its individual shut-off valve must be disconnected from the gas supply piping system during any pressure testing of the system at test pressures in excess of 1/2 PSIG (3.45 KPa).

This 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 93.45 KPa.

If this equipment is being installed at over 2,000 feet altitude and was not specified on order, contact the appropriate authorized Southbend Service Representative or the Southbend Service Department. Failure to install with proper orifice sizing will result in improper performance and may void the warranty.

NOTICE

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.

ELECTRICAL CONNECTIONS: (Convection-Type Ovens)

A. 115V - 60 HZ - SINGLE PHASE

Ovens with this electrical rating are factory supplied with three-wire cord and three-prong plug which fits any standard three-prong grounded receptacle.

Single oven base units require one 15 amp supply.

B. 208/236V - 60 HZ - SINGLE OR THREE PHASE

Ovens with this electrical rating are factory equipped with a 2-pole terminal block located behind a cover plate (single oven range units) and the blower box side cover (double oven base range units) located at the rear of the unit. To connect the supply wires, remove the appropriate cover plate. Route the supply wires and the grounding wire through the strain relief fitting to the terminal block. Insert the supply wires, one each, into the two poles of the terminal block and tighten the screws. Insert the ground wire into the grounding lug and tighten the screw. Re-attach the cover plate.

Three phase units are wired as above, using only two supply wires. The third wire is not used and must be properly terminated.

WARNING IMPROPER GROUNDING COULD RESULT IN ELECTRICAL SHOCK

This appliance is equipped with a three-prong (grounded) plug for your protection against shock hazard and should be plugged directly into a properly grounded three-prong receptacle. Do not cut or remove the grounding prong from this plug.

THREE PHASE TO SINGLE PHASE CONVERSION:

All units are shipped wired as specified by factory order. Conversion between single/three phase can be accomplished by referring to phase loading and line amperes chart on wiring diagram for wire size and amp requirements.

CLEARANCES:

Minimum Clearances -- Inches (mm)

From Combustible From Non-Combustible Construction Construction

Back0 inches0 inchesRight Side8 inches0 inchesLeft Side8 inches0 inches

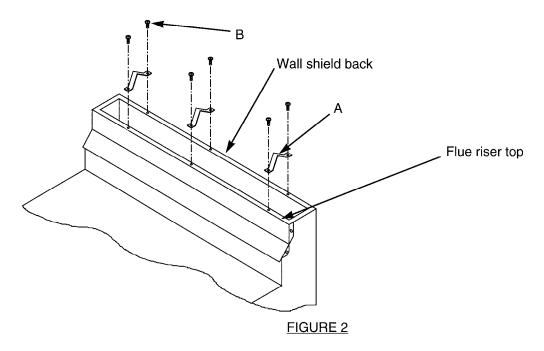
Suitable for installation on combustible floors.

All units must be installed in such a manner that the flow of combustion and ventilation air are not obstructed. Provisions for an adequate air supply must be provided. Do not obstruct the front or rear 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.

No additional clearance from the sides and back is required for service as the units are serviceable from the front.

Adequate clearance must be provided in the aisle and at the side and rear to allow the door to open sufficiently to permit the removal of the racks and for serviceability.

Clearance for proper air circulation for motor should be 2" minimum from wall.



ITEM	PART NUMBER	DESCRIPTION
Α	1176423	Pan Deflector Bracket
В	114-6303	#8 x 1/2" Screw

NOTICE

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. Therefore, installations should comply with all local codes.

EXHAUST FANS AND CANOPIES: Canopies are set over ranges, ovens, etc., for ventilation purposes. 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 degrees or more from horizontal. This position prevents dripping grease and facilitates collecting the run-off grease in a drip pan, usually 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.

WALL EXHAUST FAN: The exhaust fan should be installed at least 2" above the vent opening at the top of the unit.

DIRECT CONNECTION: If the unit is connected directly to an outside flue, an AGA/CGA design certified down draft diverter must be installed at the flue outlet of the oven and connected to the flue.

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.

NOTICE

Proper ventilation is the owner's responsibility. Any problem due to improper ventilation will not be covered by warranty.

⚠ WARNING

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

LEVELING:

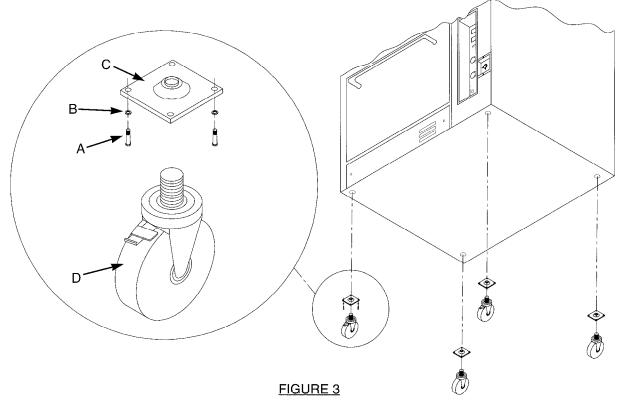
Unit must be level to assure maximum performance. Improper leveling may void warranty.

TO INSTALL RANGE:

- 1. Inspect for shipping damage as outlined in front of manual (page 1).
- 2. Cut banding straps and remove corrugated box from range.
- 3. Cut banding strap, holding range to wooden skid.
- 4. Locate box marked "legs" or "casters."
 - A gas pressure regulator is supplied and already installed on the incoming gas line.
 - If legs or casters are not received, contact your Southbend Sales Representative.
 - Please have your *model* and serial number ready when you call.

LEGS OR OPTIONAL CASTERS:

- 1. A set of legs or casters are packed in the unit. A threaded receptacle is fastened to the base frame at each corner. Each leg or caster has a similar mating thread. Install casters with locking brake to the front of unit.
- 2. Raise unit sufficiently to allow legs or casters to be screwed into the receptacles. For safety, "shore up" and support the unit with an adequate blocking arrangement (strong enough to support the load.)
- 3. Lower unit gently. Never drop or allow the unit to fall.
- 4. The legs or casters can be adjusted to overcome a slightly uneven floor.
- 5. After the unit has been leveled, tighten the lock nuts. (Lock nuts supplied with casters only.)
- 6. Casters are provided with a Zerk fitting for proper lubrication when required.



ITEM	PART NUMBER	DESCRIPTION
А	1146201	1/4 x 20 x 3/4 Hex Head
В	1146500	1/4 Lock Washer
С	1172650	Leg Pad (3/4 x 10 hole)
*	1174263	5" Swivel Caster Less Brake
D	1174264	5" Swivel Caster with Brake
*	1174265	Caster Package

^{*1174265} Caster package consists of two 1174265 and two 1174263. Bolts, lock washers, and leg pads are not included in caster package.

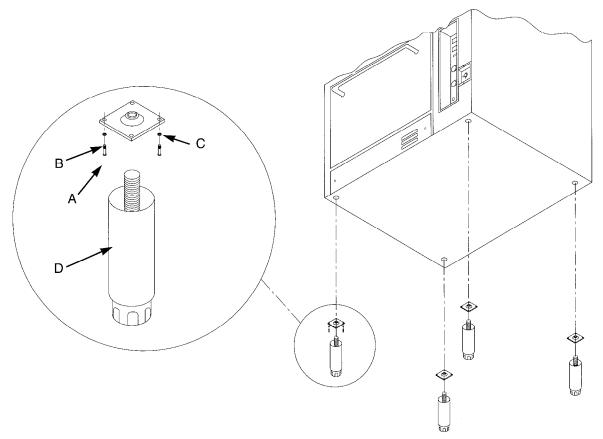


FIGURE 4

ITEM	PART NUMBER	DESCRIPTION
Α	1146201	1/4 x 20 x 3/4 Hex Head
В	1146500	1/4 Lock Washer
C	1172650	Leg Pad (3/4 x 10 hole)
D	1174259	S.S. Leg (3/4 stud)
*	1174260	Leg Package (set of 4)
*	1174262	Earth Quake Legs SS (set of 4)

- * 1174260 Leg package consists of four legs. Screws, leg pad, and lock washers are not included in leg package.
- * Not shown these are optional. The leg pad hardware will stay the same.

⚠ WARNING

To avoid accidental gas disconnection and potential explosion:

- For an appliance equipped with casters, the installation should be made with a connector that
 complies with the standard for connectors for movable gas appliances, ANSI Z21.69 or connectors for movable gas appliances, CAN/CGA-6.16, and a quick-disconnect device that complies
 with the standard for quick-disconnect devices for use with gas fuel, ANSI Z21.41, or quickdisconnect devices for use with gas fuel, CAN1-6.9.
- Adequate means must be provided to limit the movement of the appliance without depending on the connector and the quick-disconnect device or its associated piping to limit the appliance movement where the restraining means may be attached to the appliance.

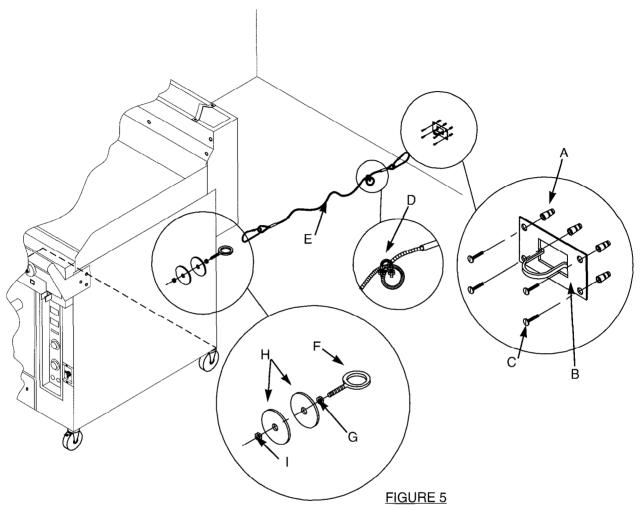
⚠ WARNING

To avoid accidental gas disconnection and potential explosion:

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

Adequate restraining means "must be attached to rear of appliance when installed." Installation must conform to local codes as applicable.

For units not equipped with flame safety devices, be sure all valves are turned off <u>prior</u> to disconnecting. When reconnecting, be sure all valves are turned off and all pilots are lit.



INSTALLATION INSTRUCTIONS FOR RESTRAINING DEVICE:

- 1. Restraining device bracket (item "B") and eye-bolt (item "F") should be positioned as closely as possible to the appliance connector inlet and outlet connections.
- 2. Secure bracket (item "B") to a wall stud. Use four each #12 screws (item "C") and plastic anchors (item "A") if necessary.
- 3. Install eye-bolt (item "F") to a frame member on the rear of the equipment. After checking carefully behind the frame member for adequate clearance, drill a 1/4" hole through the frame member.

NOTICE

- Extreme caution should be exercised to ensure that no appliance internal parts are damaged by the drilling.
- The location of the drilled hole and the eye-bolt installation should be per the appliance manufacturer's recommendations.
- 4. Thread hex nut (item "G") and slide the washer (item "H") onto the eye-bolt. Insert the eye-bolt through the 1/4" drilled hole and secure with a washer (item "H") and nylon lock nut (item "I").
- 5. Using the spring-loaded snap hooks, attach the restraining device to the bracket and the eye-bolt.
- 6. Using the cable clamp (item "D"), adjust the restraining device extended length to prevent over-bending or kinking of the appliance connector.

SEE ADDITIONAL INSTRUCTIONS FURNISHED WITH APPLIANCE CONNECTOR

GRIDDLES:

New griddles should be carefully tempered and maintained to avoid possible cracking and/or warping. To break in a new griddle, first wipe it clean. Next, light all griddle burners and set thermostats at 200°F for one hour. Then, gradually bring griddle to frying temperature. Next, spread three or four ounces of beef suet or, as a substitute baking soda, to season it. Never allow water on a hot griddle and never wash it with soap and water.

Has a Nortee Alundum (ar aguivalent) Criddle Priolete alaan ariddle. Alugua romambar ta baat griddle alaulu baaayaa

Never place utensils on griddle. Do not heat griddle above 550°F, as this will cause warpage or breakage.

Do not use any type of steel wool, since small particles may be left on the surface and get into food products.

PERFORMANCE CHECK:

The following items should be checked within the first 30 days of operation by a qualified service technician.

- 1. Verify equipment is level.
- 2. Verify proper electrical characteristics -- voltage, cycle, phase.
- 3. Check thermostat operation; calibrate if required.
- 4. Check ventilation.
- 5. Check electrical connections -- external and internal.
- 6. Check door for proper alignment, tension, seal, and adjustment.
- 7. Check timers, switches and motor for proper installation and operation.
- 8. Check for any damage to unit from shipping or installation.
- 9. Check for proper clearance from combustible materials.
- 10. Verify proper type of gas.
- 11. Verify gas supply and pressure. (Pressure regulator is already installed at factory.)
- 12. Check gas connection and check for leaks.

It is common for new products to require a burn-off time to dry out insulation and metal cooking surfaces.

THEORY OF OPERATION

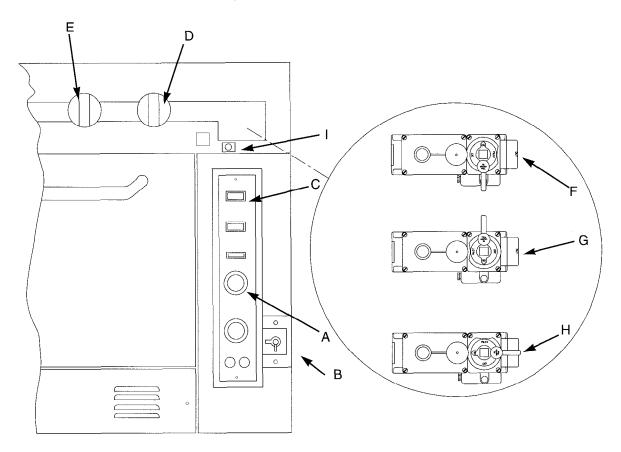


FIGURE 6

LIGHTING, RE-LIGHTING AND SHUTDOWN INSTRUCTIONS

NOTE: When this range has been disconnected and re-connected to its gas source, light oven first and then wait six minutes before lighting top section. This allows all air to be purged from the range.

Refer to figure 6 above when following these instructions.

LIGHTING: RANGE CONVECTION OVEN

- 1. Turn "cook" thermostat to "off." (item "A")
- 2. Turn oven service valve on front of range "on." (item "B")
- 3. Place power switch in "on" position. (item "C")
 Auto ignition will light pilot.
- 4. After pilot is lit, turn thermostat to desired setting. (item "A")

STANDBY (OVEN NOT IN USE):

- 1. Place power switch in "off" position. (item "C")
- 2. Turn thermostat to "off" (item "A")

RELIGHTING:

Wait 5 minutes and repeat lighting instructions.

LIGHTING: RANGE TOP SECTION

- 1. Turn all burner control valves to "off." (items "D" and "E"; there are 6 knobs on model 300, 4 knobs on model 301)
- 2. Turn safety valve handle to "pilot," depress button (item "G"), light pilot using spark igniter (item "I") or lighted taper, and hold for 45 seconds or until pilot remains lit.
- 3. Turn safety valve handle to "on" (item "H"). Turn burner control valves to desired settings (items "D" and "E").

RELIGHTING:

Raise pull button on safety valve handle and turn to "off." (item "F") Wait 5 minutes and repeat lighting instructions.

FOR COMPLETE SHUTDOWN

- 1. Place oven power switch in "off" position. (item "C")
- 2. Turn oven thermostat to "off." (item "A")
- 3. Turn oven service valve to "off." (item "B")
- Turn all top burner control valves to "off." (items "D" and "E")
- 5. Raise pull button on top section safety valve handle and turn to "off." (item "F")
- 6. Turn main gas supply valve to "off" (external to range supplied by customer).



To eliminate gas buildup which could result in explosion:

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

DANGER EXPLOSION HAZARD

In the event a gas odor is detected, shut down equipment at the main shut off valve. Immediately call the emergency phone number of your gas supplier.

GRIDDLE COOL DOWN: At the end of each use, allow griddle to cool normally. After griddle has cooled, coat griddle surface with a light film of cooking oil to protect surface from moisture.

NOTICE

Use of stock pots on griddle can cause surface damage.

NOTICE

Do not clean spatula by hitting the edge on the griddle plate. Such action may cut and pit the griddle surface, leaving it rough and hard to clean.

WARNINGBURN OR EXPLOSION HAZARD

Open burners must be installed a minimum of 16" from a deep fat fryer. Splatter of grease into an open flame can result in fire. Splatter of water into grease can cause explosions and severe burns.

↑ WARNING

The use of aluminum foil can cause heat distribution problems in ovens. Extreme care must be used when placing aluminum foil in the oven to ensure that it does not block or change the air flow. The use of aluminum foil may void the product warranty if its use is ascertained to be a problem.

⚠ WARNING

For an appliance equipped with a convection type oven, no attempt should be made to operate oven during a power failure.

COOKING TIPS

(CONVECTION-TYPE OVEN ONLY):

- A. **FROZEN ENTREE PRODUCTS:** Punch holes in lid before heating. Tent lid if product has a tendency to stick, i.e., lasagna or macaroni and cheese. Use manufacturer's convection oven directions for time and temperatures or reduce conventional oven temperature 50° for six half-size pan load. Some products may cook in 10 to 15 minutes less time than recommended for convection ovens if prepared from frozen in a six pan load.
- B. FRUIT PIES: Use temperature and time from manufacturer's directions for convection ovens for a 12 pie load placed on three bun pans.
- C. ROLLS YEAST: Use temperature and time recommended by manufacturer for convection ovens for a three pan load.
- D. **POTATOES PRE-BLANCHED**, **FROZEN:** Spread on ungreased bun pans, three pans per load. Bake at 400° F, stirring once, for 15 to 18 minutes.
- E. **FISH PORTIONS BREADED, PRE-COOKED:** Use manufacturer's recommended temperature and time for convection oven for a three pan load.
- F. POTATOES BAKING, 8 OZ. SIZE: Wash and wrap in potato foil. Place 30 potatoes on 18 by 24 bun pan three pans per load. Bake in 400°F oven for 1 hour.
- G. **TOP ROUND OF BEEF, NO. 168:** Set oven at 250° F. Place trimmed roast on pan. For 14-16 pounds: 140°F rare 14 minutes/pound: 150°F medium 16 minutes/pound; 160°F well done 17½ minutes/pound.

SUGGESTIONS (CONVECTION-TYPE OVEN ONLY):

If cakes are dark on the sides and not done in the center	lower oven temperature.
If cake edges are too brown	reduce number of pans or lower oven temperature.
If cakes have light outer color	. raise temperature.
If cake settles slightly in the center	 bake longer or raise oven temperature slightly. Do not open doors too often for long periods.
If pies have uneven color	reduce number of pies per rack.
If meats are browned and not done in center	. lower oven temperature and roast longer.
If meats are well done and not browned	raise temperature. Limit amount of moisture.
If cake ripples	overloading pans or batter is too thin.
If there is excessive meat shrinkage	. lower oven temperature.
If cakes are too coarse	lower oven temperature.

ADJUSTMENTS

NOTICE

Service work should be performed only by a qualified technician who is experienced in, and knowledgeable of, the operation of commercial gas, electric, and steam cooking equipment. Contact the Authorized Southbend Service Agency for reliable service, dependable advice or other assistance, and for genuine factory parts.

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

(A) Service work is performed by other than a qualified technician.

OR

(B) Other than genuine Southbend replacement parts are installed.

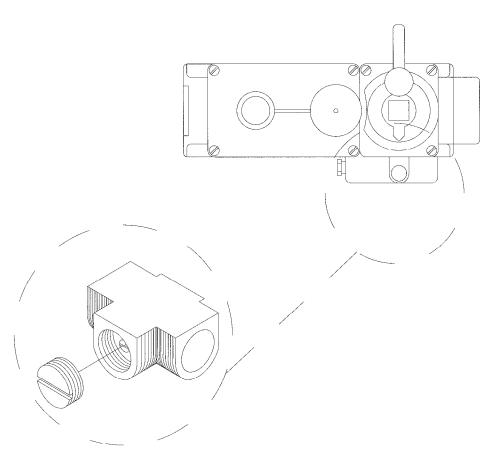


FIGURE 7

Refer to figure 7 (above).

PILOT ADJUSTMENTS:

- A. Remove the pilot adjust cover screw located at the pilot gas outlet on safety valve.
- B. Using a screwdriver, turn pilot adjusting screw to the right to decrease or left to increase the size of the pilot flame. (Flame should cover thermocouple tip, approximately 1/2.")
- C. Replace pilot adjustment cover screw.

ADJUSTMENTS

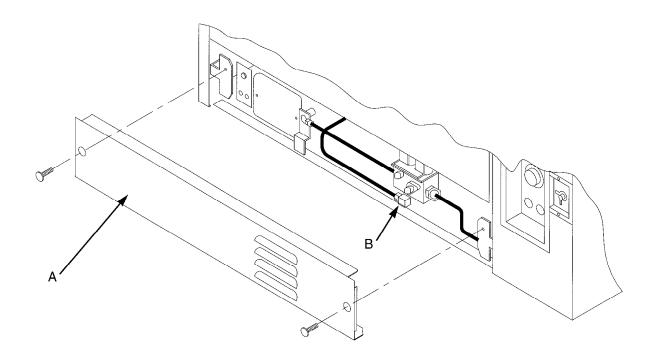


FIGURE 8

Refer to figure 8 (above).

OVEN PILOT:

- A. Remove the kick panel below the oven door (item "A").
- B. Adjust oven pilot flame by turning the adjusting screw on the pilot line valve (item "B").
- C. The pilot flame is properly adjusted when it is just large enough to maintain a glowing red color of the flame switch capillary bulb.

TROUBLE SHOOTING

GENERAL:

PROE	LEM -	LOOK FOR -
	rners and pilots in unit t turn on	Main gas supply to unit is "OFF"
	rners produce excessive n deposits	Incorrect gas type supplied to unit Incorrect supply pressure
	come burners in a unit ce excessive carbon its	Incorrect orifices Primary air not adjusted properly
	some pilots produce sive carbon deposits	Pilot gas not adjusted properly Incorrect pilot orifice
	urner (not oven) will me on	Manual valve for top burner in "OFF" position Pilot out
Top s stay iç	ection pilot will not nited	Pilot gas not adjusted properly Clogged orifice Draft condition Improper ventilation system Air in gas line
OVEN:	ELEM -	CHECK OR REPLACE -
	oes not come on when	Power cord is plugged in
	osition	Unit power switch
	will not run with vitch in any position	Fan switch Motor
	will not run in "Bake" on but runs in "Cool" on	Door switch actuator Door switch
No sp	ark at pilot	Spark igniter Wire to spark electrode broken or disconnected
	present but standing; rill not light	Gas supply to unit shut off Unit gas line shutoff in closed position Pilot line valve in closed position Pilot line solenoid
not lig calls f	gnites but burners will ht when thermostat or heat; ight on	Main gas solenoid Flame switch bulb in correct position Flame switch
a perio down and o begin	rill function properly for od of time and then shut (oven circulating blower ven burners). Oven will to function properly again thas cooled down.	Motor overheating
cook l	gnites but burners and ight will not come on thermostat calls for heat	Thermostat

MAINTENANCE

WARNING SHOCK HAZARD

De-energize all power to equipment before cleaning the equipment.

At least twice a year, have your Southbend Authorized Service Agency or another qualified service technician clean and adjust the unit for maximum performance.

Consult the Southbend Authorized Parts/Service Distributor list for the Authorized Service Representative in your area. If this is not available, call the Service Department at Southbend, 1-800-348-2558 for their name and number.

riangle WARNING

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 authorized Southbend service agency for reliable service, dependable advice or other assistance, and for genuine factory parts.

Southbend equipment is sturdily constructed of the best quality materials and is designed to provide durable service when treated with ordinary care. To expect the best performance, your equipment must be kept in good condition and cleaned daily. Naturally, the periods for this care and cleaning depend on the amount and degree of usage.

MAINTENANCE - ALL UNITS - EXTERIOR AND TOP SECTIONS:

Keep exposed, cleanable areas of unit clean at all times.

DAILY:

- A. Remove, empty, and clean grease drawers and dirt travs.
- B. Clean griddle drain chutes.

MONTHLY:

- A. Clean around burner air mixers and orifices if lint has accumulated.
- B. Visually assure proper pilot operation.

Vent System: At least twice a year, the unit venting system should be examined and cleaned.

Following daily and periodic maintenance procedures will enhance long life for your equipment. Climatic conditions - salt air - may require more thorough and frequent cleaning or the life of the equipment could be adversely affected.

STAINLESS STEEL:

- To remove normal dirt, grease, and product residue from stainless steel that operates at LOW temperature, use
 ordinary soap and water with or without detergent, applied with a sponge or cloth. Dry thoroughly with a clean
 cloth.
- 2. To remove grease and food splatter or condensed vapors that have baked on to 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 which 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 which 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.
- 3. To remove heat tint: Darkened areas 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 foregoing, but tint which does not respond to this procedure calls for 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.

BLACK BAKED ENAMEL:

Allow unit to cool somewhat after use and wash exterior with a hot, mild detergent or soap solution; particularly clean off all grease deposits. Dry thoroughly with a dry cloth.

BURNERS: General

Little attention is needed, but if spillage should occur, it may be necessary to clean around pilot areas, air mixer and under burners. Use a wire brush if necessary.

Periodically, burners (particularly open top type) should be removed and cleaned. Allow interior to completely drain. Dry thoroughly before replacing.

HOT TOPS:

Allow range to cool. If water is used on tops while still hot, they may crack. Avoid this practice. Remove tops from range and clean surfaces with hot water and detergent. A wire brush may be used on the underside of the Hot Top plate. It is recommended not to clean tops while still on range, even if cooled, as excessive water will drip into the burner box and deteriorate the metal.

Do not waste gas and abuse equipment by leaving all burners "Full On" if not required. During idling periods, adjust burner valves to keep top warm. Re-adjust burner valves as required for periods of heavy loads.

CARE OF GRIDDLES:

New griddles should be carefully tempered and cared for in order to avoid possible damage. To break in a new griddle, first wipe it clean. Next, light all the griddle burners and turn them low for one hour. Then, gradually bring griddle to frying temperature. Next, spread three or four ounces of beef suet, or as a substitute, baking soda, to season it. Never allow water on a hot griddle and never wash it with soap and water.

Use a Norton Alundum Griddle Brick to clean griddle. Always remember to heat griddle slowly because quick heat may cause costly damage. Griddle plates cannot be guaranteed against damage due to carelessness. Never place utensils on griddle. Do not heat griddle above 550°F, as this can cause warpage or breakage.

Do not use any type of steel wool. Small particles may be left on the surface and get into food products. Do not clean spatula by hitting the edge on the griddle plate. Such action will only cut and pit the griddle plate, leaving it rough and hard to clean.

Do not waste gas or abuse equipment by leaving valves at "Full On" position or thermostat at a high temperature if not required. During idle periods, set valves at "Low" position or thermostat to low temperature settings to keep griddle warm. Reset valves or thermostats, as required, for periods of heavy load. Turn valves or thermostats to "off" at end of daily operation.

OVEN INTERIOR:

⚠ WARNING

For your safety, disconnect the power supply to the appliance before cleaning.

Oven bottom and oven door lining are finished with a porcelain enamel coating which encourages frequent cleaning. "Spill-overs" should be cleaned from the oven bottom and the door lining a soon as possible to prevent carbonizing and "burnt-on" condition. Usually, a soap or detergent solution is strong enough. For stubborn accumulations, commercial oven cleaners are recommended.

The side, rear and top linings have an aluminized coating and should be cleaned with a sponge or cloth and a mild detergent. Do not use a strong commercial cleaner or abrasive pad, as they may damage the finish.

The rack slides are readily removable for ease in cleaning. To remove, raise them and they will become disengaged from their hanger studs. After cleaning, reverse procedure to reinstall.

Foreign matter may collect on the blades of the blower wheel and reduce the circulation. When this becomes apparent, remove the rear lining which is secured by thumb screws near each corner. Then, use a stiff brush on each blade and finally, wash with soap and water. After cleaning, reverse procedure to reinstall.

WHEN CLEANING THE BLOWER WHEEL, BE SURE TO HAVE THE POWER SWITCH IN THE "OFF" POSITION.

CONTROL PANEL:

The textured control panel should be cleaned with warm water and mild soap. Never use cleaning solvents with a hydrocarbon base.

MOTOR:

Lubrication information can be found on a permanent label located on motor.

⚠ CAUTION

DO NOT USE ordinary steel wool as any particles left on the surface will rust.

NEVER USE a wire brush, steel or abrasive scouring pad (except stainless), scraper, file or other steel tools. Surfaces which are marred collect dirt more rapidly and become more difficult to clean. Marring also increases the possibility of corrosive attack.

DO NOT clean door gasket with a high chlorine solution or bleach.

NEVER use any corrosive cleaner. Use only cleaners approved for stainless steel.

⚠ WARNING

Improper cleaning can result in expensive repairs or electrical shock. Do not get water on electrical controls or motors.

PARTS -- ACCESSORIES



NOTICE

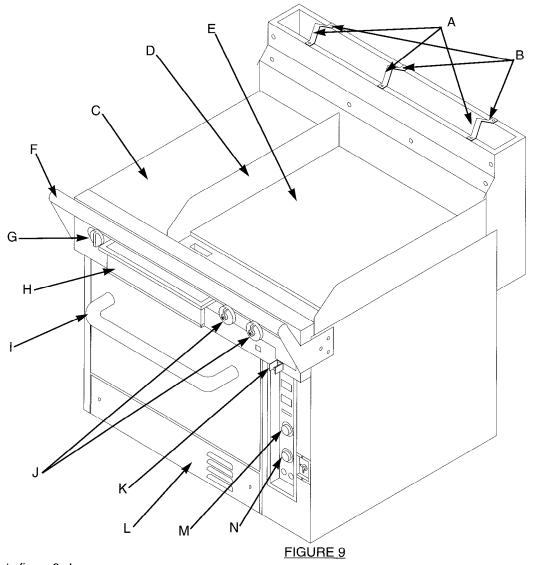
INSTALLATION OF OTHER THAN GENUINE SOUTHBEND PARTS WILL VOID THE WARRANTY ON THIS EQUIPMENT.

The serial plate with voltage, model, and serial information is located below oven door, behind the kick panel attached to frame base of oven. There is also an Identification Plate mounted to the front left corner of the valve panel that will supply model and serial number.

Replacement parts may be ordered either through a Southbend Authorized Parts Distributor or a Southbend Authorized Service Agency.

When ordering parts, please supply the Model Number, Serial Number, Part Number, Description, Finish, and Electrical Characteristics as applicable.

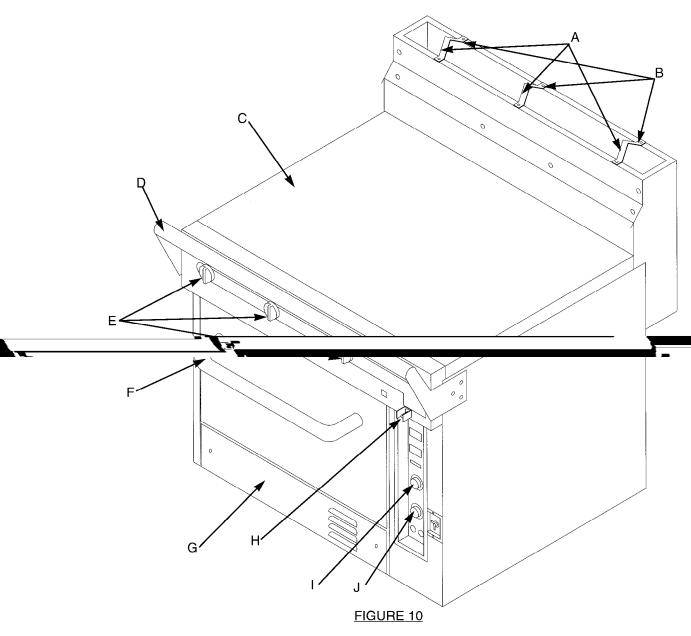
Consult the Southbend Authorized Parts/Service Distributor list for the Authorized Parts supplier in your area. If this list is not available, call the Service Department at Southbend, 1-800-348-2558 for same.



Refer to figure 9 above.

ITEM		PART NUMBER	DESCRIPTION
A		1176423	Flue Pan Deflector
B		114-6303	#8 x 1/2 Phillip Screw
	1 11 1		77
		117-6143	Grease Shield
E		117-6145	Griddle Asm. 2ft.
F		C05-00093	Belly Bar Assembly
G		116-6011	Hot Top Knob
H		117-6150	Grease Pan Assembly
1		4440000	Oven Door Handle Kit
J		117-4762	Griddle Knob
K		117-6119	Direct Sparker
L		116-6277	Base Panel S/S
M		116-5701	Thermostat Dial Knob
N		117-3444	Timer Dial
*		116-5732	Rack Guide Assembly
*		116-5652	Oven Rack (18 x 25 13/16)
*		117-6866	Quick Disconnect Hose 36"
*		117-6867	Restaining Device Kit
*		Legs	(see installation section in this manual)
*		Casters	(see installation section in this manual)

^{*} Item not shown on drawing.



Refer to figure 10 above.

ITEM	PART NUMBER	DESCRIPTION
A	1176423	Flue Pan Deflector
В	114-6303	#8 x 1/2 Phillips Screw
С	1176243	Hot Top 36" Assembly
D	C05-00043	Belly Bar Assembly
E	1166011	Hot Top Knob
F	4440000	Oven Door Handle Kit
G	1166277	Base Panel S/S
Н	1176119	Direct Sparker
1	116-5701	Thermostat Dial Knob
J	117-3444	Timer Dial
*	116-5732	Rack Guide Assembly
*	116-5652	Oven Rack (18 x 25 13/16)
*	117-6866	Quick Disconnect Hose 36"
*	117-6867	Restraining Device Kit (see pg. 11)
*	Legs	(see installation section in this manual)
*	Casters	(see installation section in this manual)

^{*} Item not shown on drawing.

LIMITED WARRANTY

Southbend warrants that the equipment, as supplied by the factory to the original purchaser, is free from defects in materials and workmanship. Should any part thereof become defective as a result of normal use within the period and limits defined below, then at the option of Southbend, such parts will be repaired or replaced by Southbend or its Authorized Service Agency. This warranty is subject to the following conditions.

Repairs under this warranty are to be performed only by a Southbend Authorized Service Agency. Southbend cannot be responsible for charges incurred or service performed by non-Southbend Authorized Service Agencies. In all cases the closest Southbend Authorized Service Agency must be used.

TIME PERIOD:

One year labor, one year parts effective from the date of original purchase. The authorized service agency may at his option require proof of purchase.

Exceptions to standard warranty, effective within above limitations:

- Glass Windows, Door Seals, Rubber Seals, Light Bulbs, Ceramic Bricks
- Sight Glasses, Cathodic Descalers or Anodes, Broiler Briquettes and Drip Shields. . . . 90 days material and labor
- Stainless Steel Fry Pot 4 years extended material warranty on fry pot only -- no labor
- Stainless Steel Open Top Burners 4 years extended material warranty on burners only -- no labor
- Pressure Steam Boiler Shell Prorated 4 years extended warranty on boiler shell only -- no labor Boiler shells which have not been properly maintained will not be covered by warranty.

In all cases, parts covered by a five-year warranty will be shipped FOB Factory after the first year.

EXCLUSIONS:

The following conditions are not covered by warranty:

- Equipment failure relating to improper installation. Examples are: improper utility connection, improper utilities supply and problems due to ventilation.
- Equipment that has not been properly maintained. Examples are: calibration of controls, adjustments to pilots and burners, damage from improper cleaning, and water damage to controls.
- Equipment that has not been used in an appropriate manner, or has been subject to misuse or misapplication, neglect, abuse, accident, damage during transit or delivery, fire flood, riot or act of God.

If the equipment has been changed, altered, modified or repaired by other than a qualified service technician during or after the one-year limited warranty period, then the manufacturer shall not be liable for any damages to any person or to any property which may result from the use of the equipment thereafter.

Equipment failure caused by inadequate water quality is not covered under warranty. WATER QUALITY must not exceed the following limits: Total Dissolved Solids (TDS) - 60 PPM (Parts Per Million). Hardness - 2 Grains or 35 PPM, pH Factor - 7.0 to 7.5. Water pressure 30 PSI minimum, 60 PSI maximum. Boiler maintenance is the responsibility of the owner and is not covered by warranty.

This warranty does not cover services performed at overtime or premium labor rates nor does Southbend assume any liability for extended delays in replacing or repairing any items in the equipment beyond the control of Southbend, "Southbend shall not be liable for consequential or special damages of any nature that may arise in connection with such product or part." Should service be required at times which normally involve overtime or premium labor rates, the owner shall be charged for the difference between normal service rates and such premium rates.

This warranty only covers product shipped into the 48 contiguous United States and Hawaii. There will be no labor coverage for equipment located on any island not connected by roadway to the mainland.

This equipment is intended for commercial use only. Warranty is void if equipment is installed in other than commercial application.

Warranty on all replacement parts which are replaced in the field by Southbend Authorized Service Agencies will be limited to three months on labor, six months on materials (parts) effective from the date of installation. See LIMITED WARRANTY - REPLACEMENT PARTS for conditions and limitations.

"THE FOREGOING WARRANTY IS IN LIEU OF ANY AND ALL OTHER WARRANTIES EXPRESSED OR IMPLIED INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS, AND CONSTITUTES THE ENTIRE LIABILITY OF SOUTHBEND. IN NO EVENT DOES THE LIMITED WARRANTY EXTEND BEYOND THE DURATION OF ONE YEAR FROM THE EFFECTIVE DATE OF SAID WARRANTY."

Consult the Southbend Authorized Parts/Service Distributor list for the Authorized Service Representative in your area. If this list is not available, call the Service Department at Southbend, 1-800-348-2558.

A product with the Southbend name incorporates the best in durability and low maintenance. We all recognize however, that replacement parts

useful life of this unit. When service is needed, contact a Southbend Authorized Service Agency, or your dealer. To avoid confusion, always refer to the model number, serial number, and type of your unit.













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