



OPERATOR'S MANUAL

Sierra Fryers



Model SRF-35/40
(3 Burner Fryer)

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.

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 that will result in severe injury or death.



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



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



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

 **WARNING**
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.

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 oil will cause severe burns. Always use caution. Oil at 200°F is more dangerous than boiling 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

Sierra Fryers 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 Sierra 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, like all Sierra equipment, has been designed and manufactured to meet the toughest standards in the industry. Each piece of Sierra 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 Sierra Fryers with 35-40-lb. capacity frypots. The capacity is described on the serial plate that is located inside the front door on the left side.

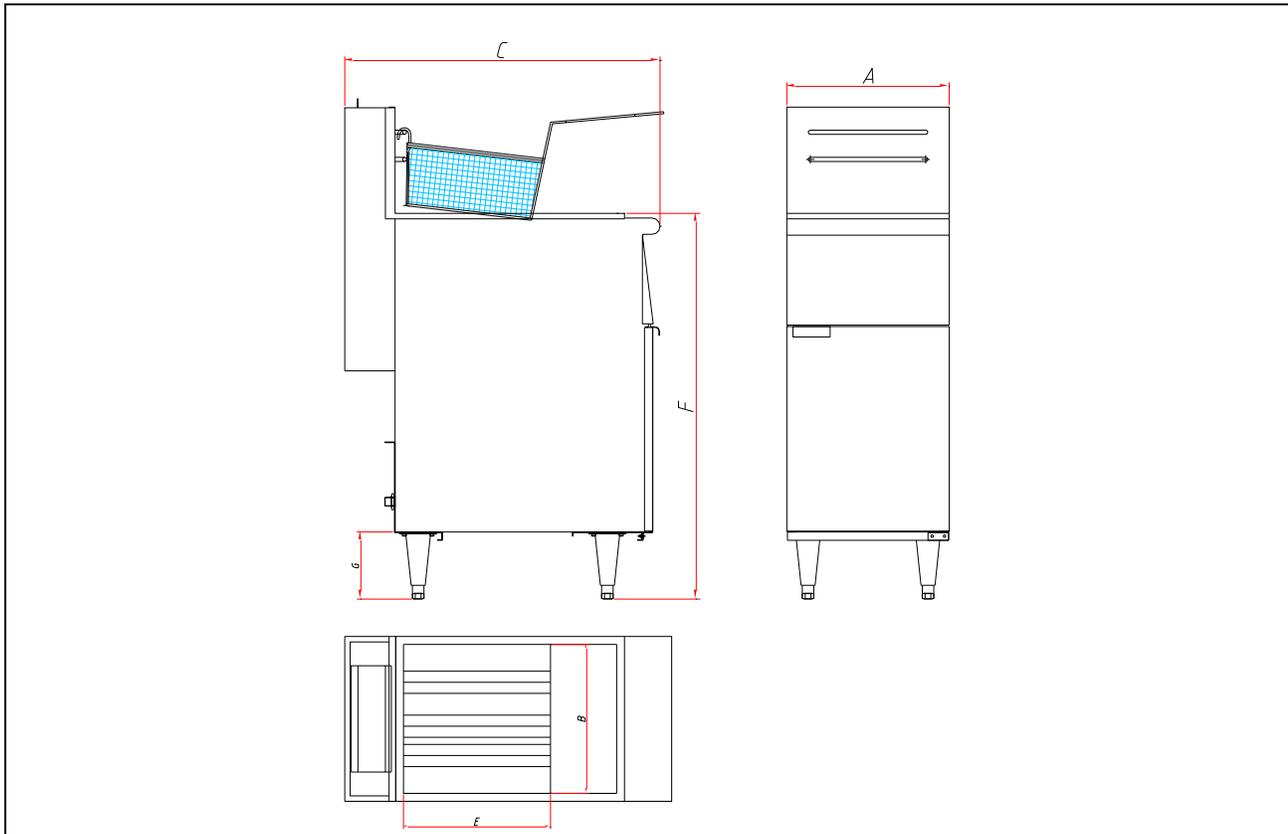
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Read these instructions carefully before attempting installation. Installation and initial startup should be performed by a qualified installer. Unless the installation instructions for this product are followed by a qualified service technician (a 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



Note: for mm, multiply inches by 25.4

Model	Width (in)		Depth (in)		Height (in)			Gas Connection (in)		Total BTU/hr.	Crated Weight (lbs)
	A	B	C	D	E	F	G	H	I		
SRF-35/40	15.5	14.0	30.3	14.0	47.2	36.2	6.0	4.2	8.0	90,000	150

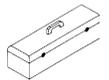
GAS SUPPLY AND BURNER INFORMATION

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

Model	Burners	Gas Type	Manifold Pressure	Number of heat tube	Rate Each BTUs / Hour	Total Rate BTUs / Hour	Orifice Size
SRF-35/40	Main	Natural	4" W.C.	3	30,000	90,000	#39
		Propane	10" W.C.	3	30,000	90,000	#52

* Minimum supply pressure is 4" W.C. for natural gas and 10" W.C. for propane.

** 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

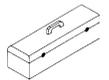
IMMEDIATELY INSPECT FOR SHIPPING DAMAGE

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.

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.

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 Casters) and Restraints

A set of legs (or optional casters) is packed with the fryer. Mounting fasteners are pre-mounted on the base plates.

1. Raise fryer sufficiently to allow legs or casters to be screwed into the base plate. For safety, “shore up” and support the fryer 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 fryer. When casters have been ordered, the casters having a locking-brake should be attached under the front of the fryer.
3. Lower the fryer gently. Never drop or allow the fryer to fall.
4. Use a level to make sure that the fryer 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 fryer.
5. If optional casters are installed, attach restraints as required by local codes. (See notice below)

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

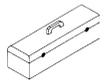
If disconnection of the restraint is necessary to move the appliance for cleaning, etc., reconnect it when the appliance is moved to its original installed position.

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 fryers 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

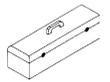


2. Slide the flue box over the flue and secure it with the two self-tapping screws using a 5/16" socket



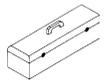
3. Slide the flue wrap over the flue





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 fryer. 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.

WARNING

There must be adequate clearance between fryer(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 SIERRA FRYERS SHALL BE INSTALLED WITH AT LEAST A 16 INCH SPACE BETWEEN THE FRYER 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 fryer is serviceable from the front.

WARNING

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

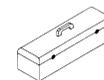
All units must be installed in such a manner that the flow of combustion and ventilation air is not obstructed. Provisions for adequate air supply must also be provided. Do NOT obstruct the bottom front of the unit, as combustion air enters through this area. Be sure to inspect and clean the ventilation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

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 fryer. The serial plate (located inside the front door of the fryer) indicates the type of gas the unit is equipped to burn (natural gas or propane). The fryer 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 fryer.

All SIERRA 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 fryer is being installed at over 2,000 feet altitude and that information was not specified when ordered, contact the appropriate authorized SIERRA Service Representative or the SIERRA 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.**

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 fryer. 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 fryer is level. Use a long spirit level four ways; across the front and rear of the frypot, and along each edge.

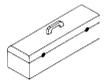


PHOTO 1

OPERATION

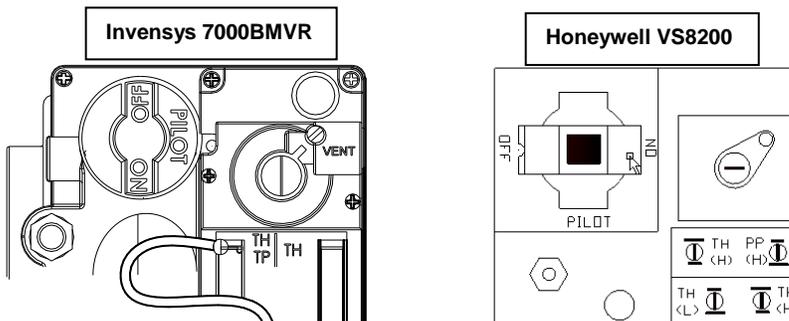
LIGHTING

⚠ CAUTION

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 frypot is filled with liquid shortening.**
6. Once the frypot is filled with shortening, set the thermostat to the desired temperature

FILLING THE FRYPOT

1. Close drain valve completely before filling the frypot.
2. When the fryer is new, fill the frypot with water and clean thoroughly (see “Weekly Cleaning” on page 14) in order to remove protective coatings and any foreign matter.
3. The recommended solid shortening capacity for the frypot (35lbs) is described on the serial plate (which is located inside the front door).
4. Remove the basket support frame when filling the frypot 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 frypot.
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 fryer. 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 frypot, and could result in a fire. Gradual heating is required for solid shortening.

CAUTION

NEVER ATTEMPT TO MELT A SOLID BLOCK OF SHORTENING ON TOP OF THE HEAT TUBES.
NEVER START THE BURNERS WHEN THE FRYPOT 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 frypot 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.

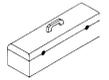
Complete Shutdown: Turn knob on the combination gas valve clockwise, press down on the knob and continue to turn to the “OFF” position.

RELIGHTING

WARNING

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

1. Shut off all gas.
2. Wait five minutes.
3. Follow the “Lighting” procedure described on page 11.



AUTOMATIC PILOT VALVE (SAFETY SHUT-OFF VALVE)

The Automatic Pilot Valve provides an automatic safety shutoff for the fryer 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

SIERRA Fryers are equipped with a secondary heat control that prevents the oil temperature from rising above 450°F. (Because of the accuracy tolerance of the sensor, the oil temperature may reach as high as 475°F.)

In the event the fryer shuts down due to this condition, the oil must be cooled to below 400°F before the pilot burner can be re-ignited. When the oil has cooled, use the “Lighting” procedure on page 11 to place the fryer back in operation. If the problem persists, contact your SIERRA Service Representative or the SIERRA Service Department.

COOKING HINTS

USER TIPS

- Smoking oil means that the temperature is too high, or that the oil has broken down.
- Gum in frypot denotes a need for thorough cleaning (see “Weekly Cleaning” on page 14)
- Use different oil for oily foods (fish, heavily seasoned foods, etc.) than for foods with water-soluble flavors (potatoes, onions, etc.).
- Taste cool oil for quality. Replace it regularly.
- Poor oil cannot produce good food.

CLEANING

SIERRA 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.



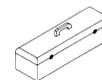
WARNING: BURN HAZARD

If necessary to move the fryer for cleaning, etc., drain oil 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 its originally installed position.



DAILY CLEANING

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



CAUTION

SOME AREAS OF THE FRYPOT MAY BE HOT!

6. Close drain valve and strain the oil back into the frypot through several thicknesses of cheesecloth, or filter it back using a filter machine.
7. Replace the basket support frame (if applicable)
8. Add oil or shortening to MIN oil level mark on rear of frypot.
9. 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 frypot with a solution of warm water and boil-out compound
3. Relight the fryer and bring the solution to a gentle boil 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 frypot walls and heat tubes with an approved high temperature cleaning brush/tool, then drain out frypot and rinse it with clean water.
6. Refill the frypot with clean water and boil 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 Frypot” section (see page 13).

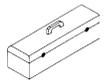
MONTHLY CLEANING

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 brand 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 brand 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 SIERRA replacement parts are installed.

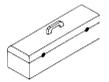


WARNING

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 SIERRA Service Representative for reliable service, dependable advice or other assistance, and for genuine factory parts.

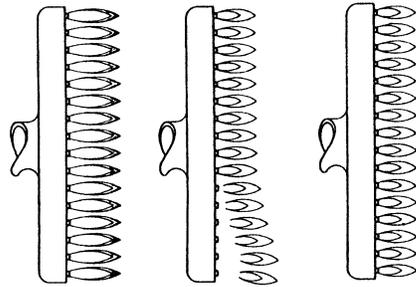
All units are adjusted at the factory. In case of problems in operation at initial installation, check type of gas and manifold pressure and compare with information listed on the serial plate.

A mill voltage circuit diagram is located inside the front door of the fryer, and also on page 19.



CHECKING AND ADJUSTING MAIN BURNERS

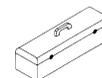
The main burners should burn with a steady blue flame, and the inner cone of the flame from each port should be about 3/4" long. The flame from each main burner should enter each heat tube without touching the front of the frypot or the sides, top, or bottom of each tube.



Yellow Tips
(too little air or too much gas)

Blowing or Lifting
Flames
(too much air)

Normal Flame



CHECKING AND ADJUSTING PRESSURE REGULATOR

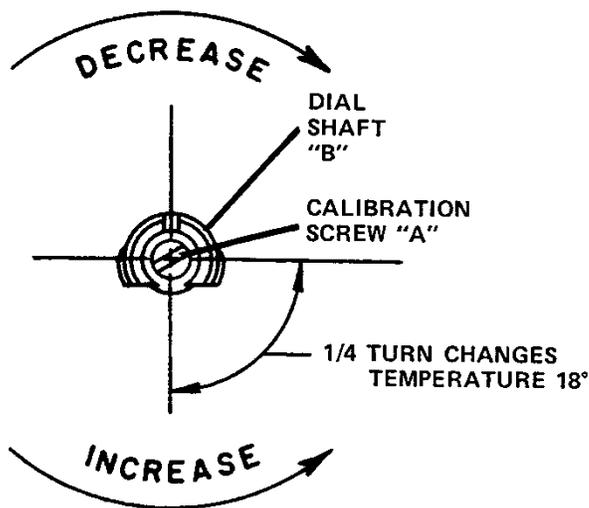
The combination gas valve (includes pressure regulator) is factory set at 4" W.C. for natural gas and 10" W.C. for propane gas. To check the manifold pressure, do the following:

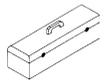
1. Turn thermostat "OFF" and combination gas valve knob to the "PILOT" setting.
2. Remove pressure tap plug from burner manifold located directly below the burners in the cabinet.
3. Install a fitting appropriate to connect a manometer.
4. Turn combination gas valve to "ON" position and thermostat to "ON." The burners will ignite. Be certain that sufficient oil 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 frypot.
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.

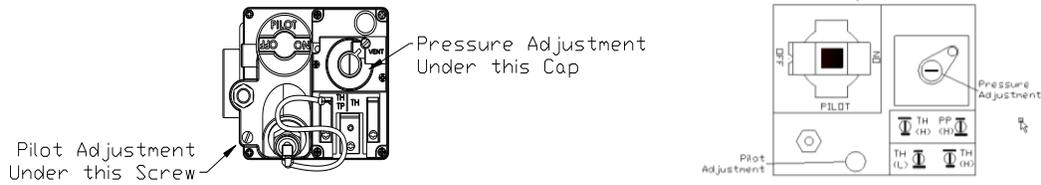




CHECKING AND ADJUSTING AUTO SAFETY PILOT

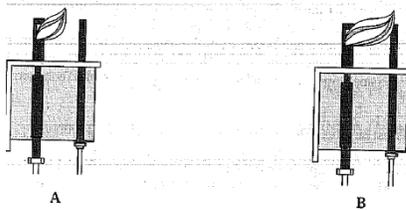
The pilot flame should surround the thermopile for 1/2". It must be large and sharp enough to cause the thermopile to glow a dull red, or sufficient to hold the safety valve open.

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

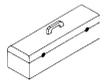


3. Replace pilot adjustment cap.

TROUBLESHOOTING

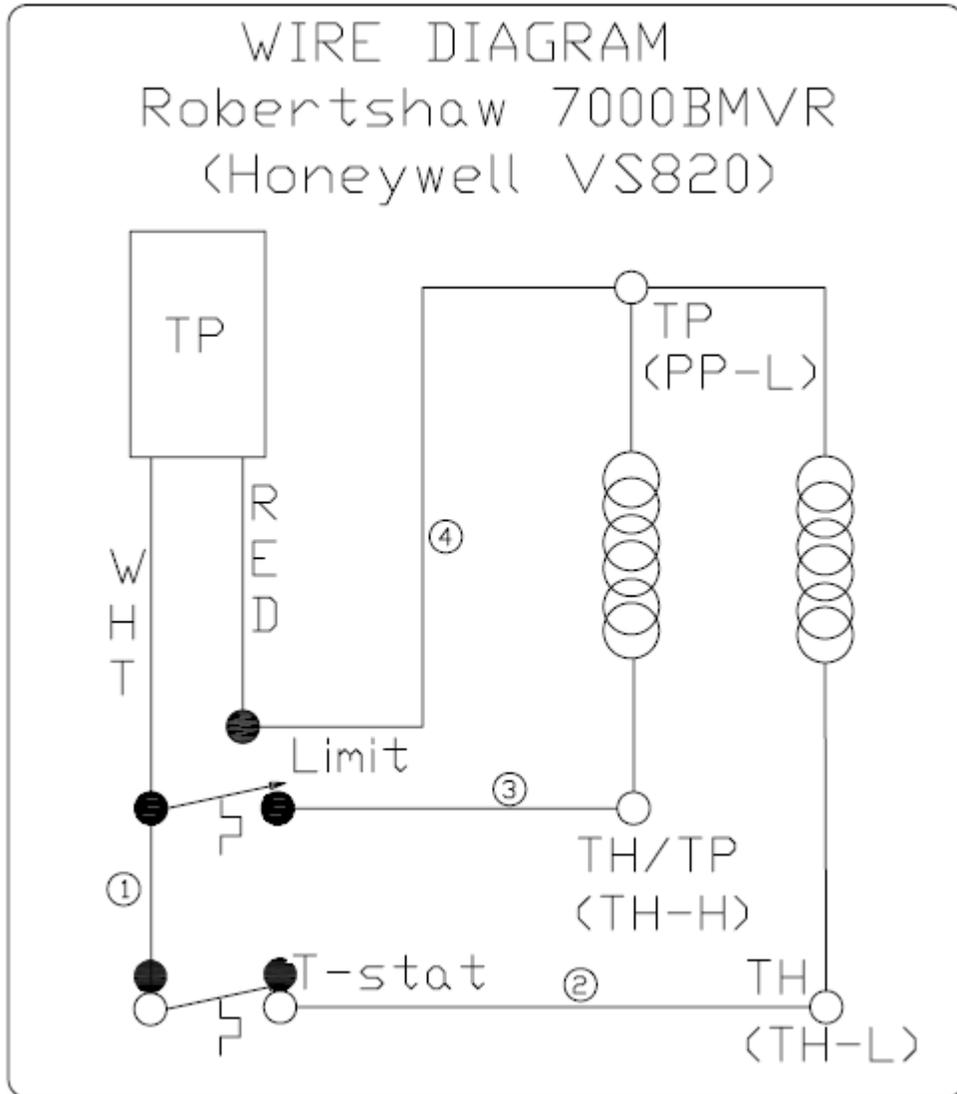
Problem	Likely Cause
Burners do not come on	Gas supply to unit off. Combination gas valve is in "OFF" or "PILOT" position. Pilot not ignited. Thermostat not "ON." Inadequate gas pressure
Pilot will not stay ignited	Combination gas valve is in "OFF" position. Pilot gas not adjusted properly. Gas supply to unit off. Bad thermopile. Dirty thermopile connections at combination gas valve or high limit. Clogged orifice. Draft condition. Air in gas line. Inadequate gas pressure Improper ventilation system.
Pilot produces carbon deposits	Unit connected to wrong gas supply. Pressure not adjusted correctly. Pilot gas not adjusted correctly.
Burners produce carbon deposits	Wrong size orifices. Connected to wrong gas supply. Pressure not adjusted correctly. Flue obstructed.

SERVICE



NOTE: Vibrations or shock caused by shaking or pounding baskets on top surface or by slamming door may cause Hi-Limit Control Switch to open. If this condition persists, additional cushioning may be added to the rubber grommets supporting this control to absorb these shocks.

Wiring Diagram



SERVICE

PARTS

NOTICE

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

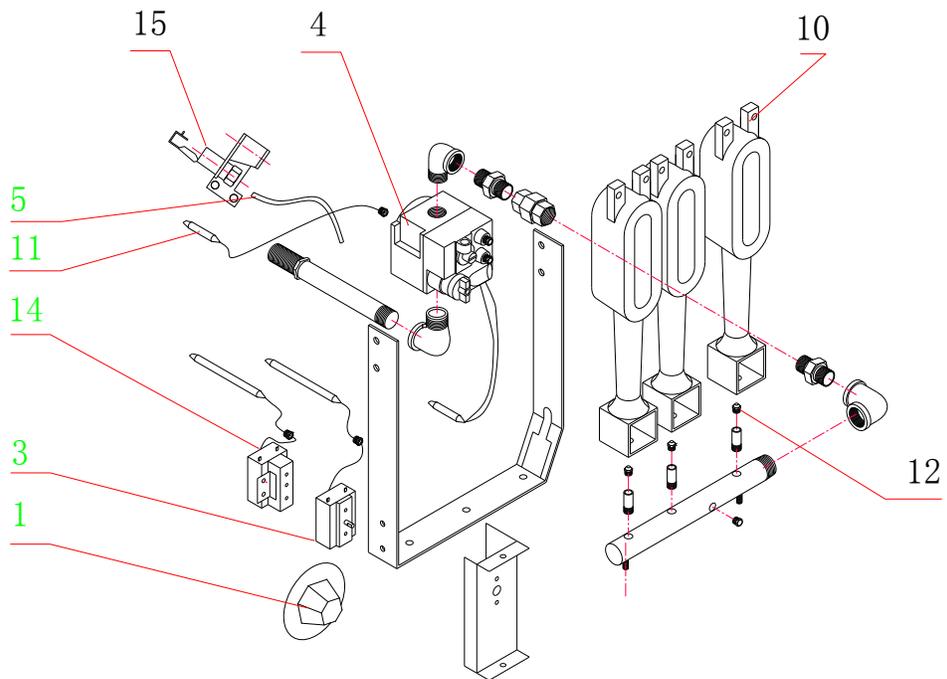
The serial plate is located inside the front door on the left side.

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

When ordering parts, please supply the Model Number, Serial Number, Part Number, and Description.

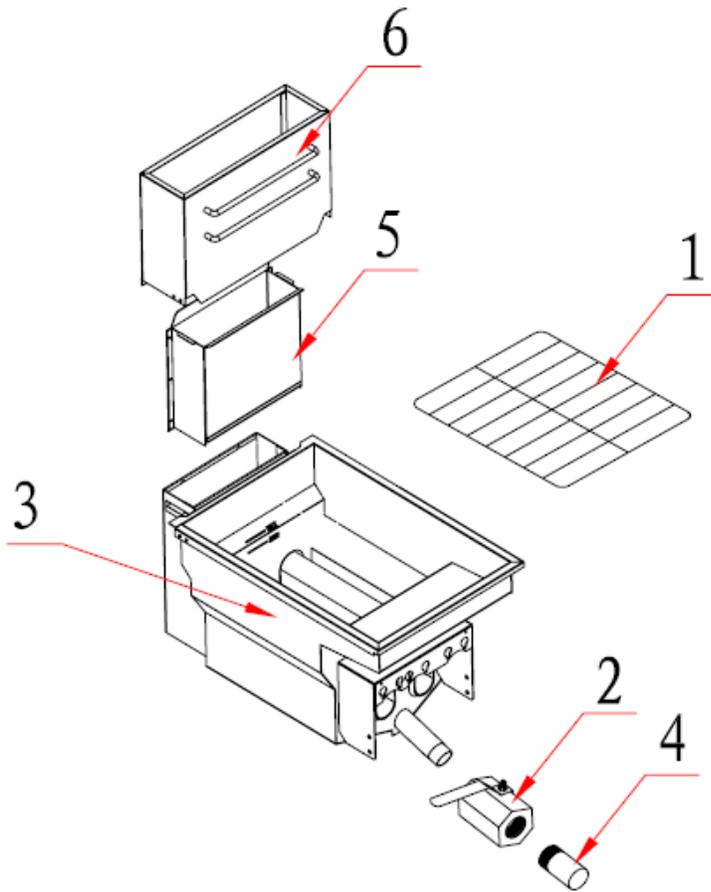
Index of Part Diagrams	
Page Number	Description
21	Gas Parts
22	Tank Parts
23	Other parts (Legs, Casters, baskets, doors, magnet)

Gas Parts for Fryer



Key	Part Number	Qty	Description
1	119-0012	1	Knob, thermostat
3	119-0011	1	Thermostat Fryer, regulating 200-400
4	119-0008	1	Combination Valve (Nat)_Invensys
4	119-0009	1	Combination valve (LP)_Invensys
4	Call	1	Combination Valve (Nat)_Honeywell
4	Call	1	Combination valve (LP)_Honeywell
5	119-0016	1	Tubing, 1/4" fryer pilot
10	119-0007	ea	Burner, Fryer
11	119-0013	1	Safety thermopile 18"
12	119-0004	ea	Orifice # 39 (Nat) (as part of kit 266003)
12	119-0005	ea	Orifice # 52 (LP) (as part of kit 266002)
14	119-0010	1	Thermostat, High limit 450F
15	119-0014	1	Pilot 3- way NAT
15	119-0015	1	Pilot 3-way LP

Tank Parts



Key	Part Number	Qty	Description
1	119-0003	1	Screen, crumb
2	119-0017	1	Valve, Ball
3	call	1	Tank, (excluding flue)
4	119-0018	1	Drain, extension
5	call	1	Flue, top, removable
6	call	1	Flue, wrap, top, removable

SIERRA FRYERS

Other Parts		
Key	Part Number	Description
1	119-0019	Door assembly, complete
3	119-0020	Leg Kit, 6", adjustable, set of 4 with mounting hardware
4	119-0021	Caster Kit, 4", adjustable, set of 4 (two w/brake and two w/o brake)
5	119-0001	Magnet door
6	119-0002	Basket double,

CONTACT INFORMATION

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MANUFACTURERS LIMITED WARRANTY

MVP Group Corporation, (Sierra Range, hereby referred to as "Sierra"), warrants all new cooking equipment bearing the name "**SIERRA**" and installed within the continental United States of America* or Canada to be free from defects in material or workmanship, under normal and regular usage and operation for a period of one (1) year following the date of original installation, but in no event can exceed eighteen (18) months from the date of shipment from the factory, unless specified otherwise.

If a defect in material(s) or workmanship is detected, or found to exist within the stated period above, MVP Group Corporation, at its sole discretion, shall either repair or replace any original part which has proven to fail within the machine, providing that the equipment has not been altered or tampered with in any manner, has been installed correctly as per the owner's manual, and has been maintained and operated in complete accordance with this manual.

The labor cost to repair or replace any part proven to be defective, as per above clause(s), shall be covered by MVP Group Corporation, within the United States of America* or Canada; provided that: prior authorization for this labor was pre-approved by MVP Group Corporation, the service work was performed by an authorized MVP Group Corporation service agent; and that this agent installed an original and genuine Sierra part in the machine. Any repair work performed by a non-authorized service agent remains the sole responsibility of the user, and MVP Group Corporation will not be held responsible. **The installation of any generic part will not be valid; and therefore voids this warranty.** All authorized labor coverage shall be limited to regular hourly rates only. Any supplemental hourly rates or charges, such as weekends or emergency premiums, remain the responsibility of the user.

MVP Group Corporation (Sierra) hereby states that: warranty travel time shall be limited to, and without exception, a round-trip total of two (2) hours OR mileage up to a maximum of one hundred (100) miles round-trip. Any charges exceeding those stated herein must have prior authorization by the factory.

FRYER MODEL SRF-35/40: A special warranty covers the SRF-35/40. This unit carries the regular one (1) year parts and labor plus an additional fry tank warranty to the original end user only: If the fry tank has leaked within the first two (2) years of operation due to a manufacturing defect, as confirmed by an MVP Group Corporation authorized service agent, MVP Group Corporation shall replace the fryer in its entirety. Freight or installation charges shall not be included.

Exceptions to above warranty are: (A) Damages resulting from shipping, handling or abuse. (B) Incorrect installation and/or connections. (C) Adjustments or calibration of any thermostats or timers. (D) Faults due to lack of regular maintenance or cleaning of any internal or external part(s). (E) Replacement of any wearable items such as: baskets, grills, knobs, etc. (F) Excessive soot accumulation due to poor gas conditions. (G) Poor results due to: excessive or inadequate temperature(s) or gas pressure conditions (H) Failure to follow manual's lighting instructions, maintenance and/or usage.

MVP GROUP CORPORATION STATES THAT THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, THAT ARE NOT SET FORTH HEREIN. MVP GROUP CORPORATION SHALL ASSUME NO OTHER RESPONSIBILITY, EITHER DIRECT OR NON-DIRECT, OR BE LIABLE FOR ANY OTHER ADDITIONAL LOSS OR DAMAGE, WHETHER DIRECT OR CONSEQUENTIAL, AS A RESULT OF ITS EQUIPMENT.

*some exceptions apply

The manufacturer reserves the right to alter design and specifications without notice.

SIERRA FRYERS

A product with the SIERRA name incorporates the best in durability and low maintenance. We all recognize, however, that replacement parts and occasional professional service may be necessary to extend the useful life of this unit. When service is needed, contact a SIERRA 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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