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GAS TUBE DEEP FRYER OPERATING INSTRUCTIONS

**Models: REL-GFTB-40-NG \ REL-GFTB-50-NG
REL-GFTB-50-LP – 50 \ REL-GFTB-70-NG**

**PLEASE READ THESE INSTRUCTIONS CAREFULLY TO AVOID
INCORRECT USAGE OF UNIT AND TO AVOID SAFETY HAZARDS.**

NOTICE: Use this appliance for its intended purpose as described in this User Manual.

Dear Purchaser/User:

Thank you for choosing our product. For your safety and ease of use, please read and follow this guide's instructions carefully. Keep this manual in a safe place for your future reference. This manual is subject to change without further notice. The manufacturer reserves the right of final interpretation.

NOTE: This appliance is designed for commercial purposes, NOT for household use.

We strongly advise the user to obtain and post in a prominent location safety instructions from the local gas supplier to address any event where the user suspects a gas leak.

FOR YOUR SAFETY:

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

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.

IMPORTANT FOR YOUR SAFETY

THIS MANUAL HAS BEEN PREPARED FOR PERSONNEL QUALIFIED TO INSTALL GAS EQUIPMENT, WHO SHOULD PERFORM THE INITIAL FIELD START-UP AND ADJUSTMENTS OF THE EQUIPMENT COVERED BY THIS MANUAL.

POST IN A PROMINENT LOCATION THE INSTRUCTIONS TO BE FOLLOWED IN THE EVENT THE SMELL OF GAS IS DETECTED. THIS INFORMATION CAN BE OBTAINED FROM THE LOCAL GAS SUPPLIER.

IMPORTANT

IN THE EVENT A GAS ODOR IS DETECTED, SHUT DOWN UNITS AT THE MAIN SHUTOFF VALVE AND CONTACT THE LOCAL GAS COMPANY OR GAS SUPPLIER FOR SERVICE.

FOR YOUR SAFETY

DO NOT STORE OR USE GASOLINE OR OTHER FLAMMABLE VAPORS OR LIQUIDS IN THE VICINITY OF THIS OR ANY OTHER APPLIANCE.

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.

INTRODUCTION

GENERAL

Our gas tube fryers are produced with quality workmanship and material. Proper installation, usage and maintenance will result in years of satisfactory performance.

Before installing the fryer, thoroughly read this manual and carefully follow all instructions.

This manual is applicable to model listed below. Procedures in this manual will apply to all models unless specified. Pictures and illustrations can be of any model unless the picture or illustration needs to be model specific.

FRYER CAPACITY					
MODEL	Burner Qty	Tank	BTU / Hour	Width Inch	Shortening lbs.
REL-GFTB-40	3	Single	90,000	15.5"	35-40
REL-GFTB-50	4	Single	120,000	15.5"	45-50
REL-GFTB-2525	4	Double	120,000	15.5"	45-50
REL-GFTB-70	5	Single	150,000	21.0"	65-70
REL-GFTB-85	5	Single	150,000	21.0"	85-90

UNPACKING

This fryer was carefully inspected before leaving the factory. Upon acceptance of the shipment, the transportation company assumes full responsibility for safe delivery.

Immediately after unpacking the fryer, check for possible shipping damage. If the fryer is damaged, save the packaging material and contact the carrier immediately

Check that the following have been included:

- Crumb Rack
- Basket Hanger
- Twin Fry Baskets (2)
- Drain Pipe Extension
- Manual and Warranty – Retain for future reference.

INSTALLATION

Do not use the door or its handle to lift the fryer.

Before installing the fryer, verify that the type of gas (natural or propane) is in conformity to the specifications on the fryer data plate, which is located on the inside of the door panel. Make sure the fryer is configured for the proper elevation.

Clearances

- Minimum clearance from combustible construction:
 - 6" (15 cm) from the sides of the fryer
 - 6" (15 cm) from the back of the fryer

The fryer may be installed on combustible floors

- Minimum clearance from noncombustible construction:
 - 0" from the sides of the fryer
 - 0" from the back of the fryer
- Between the fryer and any open-top flame units: 16" (41 cm)
- Allow space for servicing and operation.

Location

- Install fryer in an area with sufficient air supply for gas combustion at fryer burners.
- Do not obstruct the flow of combustion and ventilation air.
- Provide adequate clearance for air openings into the combustion chamber.
- Do not permit fans to blow directly onto fryer.
- Avoid wall-type fans, which create cross-currents within a room. Avoid open windows next to sides or back.

CODES AND STANDARDS

The fryer must be installed in accordance with:

- Local codes
- CAN/CSA-B149.1 Natural Gas and Propane Installation Code (latest edition), available from the Canadian Standards Association, 155 Queen Street, Suite 1300, Ottawa, Ontario Canada K1P 6L1.
- CSA C22.1 Canadian Electric Code (latest edition), available from the Canadian Standards Association, 155 Queen Street, Suite 1300, Ottawa, Ontario Canada K1P 6L1.

ASSEMBLY

The fryer must be restrained to prevent tipping and the splashing of hot liquid. The means of restraint may be the manner of installation, such as connection to a battery of appliances, installing the fryer in an alcove, or by separate means such as adequate ties.

FLUE CONNECTION

Make the flue connection as follows:

- Locate the fryer under a hood with adequate connection to an exhaust duct. The hood must extend 6" (15 cm) beyond fryer on both sides.
- Clearance above the fryer should be adequate for combustion byproducts to be removed efficiently.
- An 18" (46 cm) minimum clearance should be maintained between the flue vent and the filters of the hood venting system.
- Never make flue connections directly to the fryer.
- Do not obstruct the flow of the gases from the appliance. Proper air balance should be maintained in the room.
- Ensure that your ventilation system does not cause a down draft at the fryer's flue opening. Down draft will not allow the fryer to exhaust properly and will cause overheating which may cause permanent damage. Damage caused by down draft will not be covered under equipment warranty. Never allow anything to obstruct the flue or ventilation exiting from the fryer flue. Do not put anything on top of flue area.

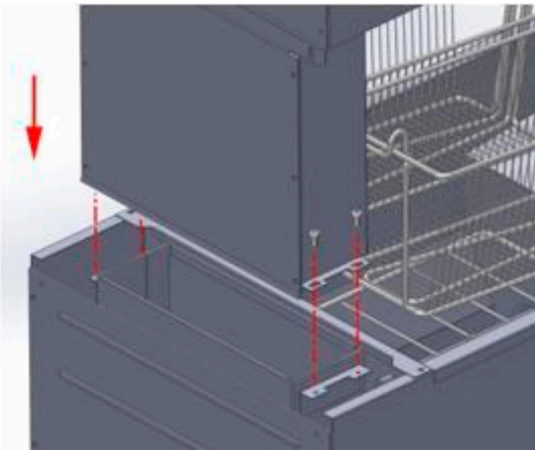
FLUE INSTALLATION

Before using fryer, install and assemble the 10-5/8" flue to the fryer:

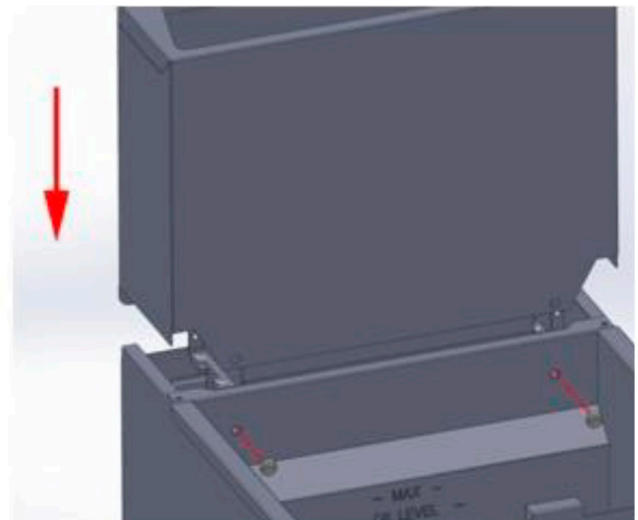
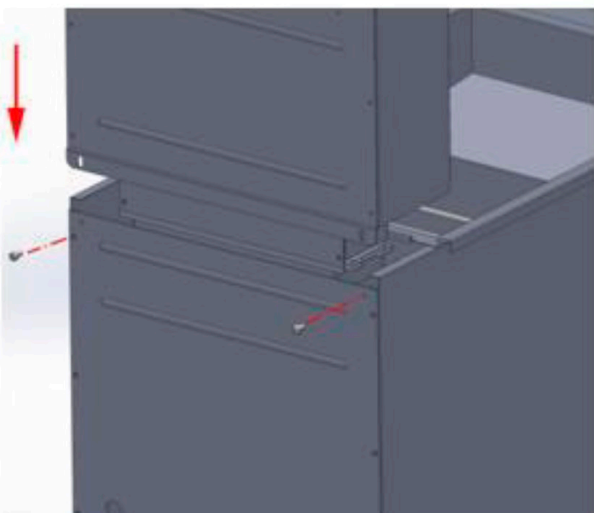
1. Unpack the flue box and flue wrap.



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. Secure it with self-tapping screws, two on the back and two on the front, using a 5/16" socket.



GAS CONNECTION

All gas supply connections and any pipe joint compound must be resistant to the action of propane gases.

The gas inlet is located on the lower rear of the fryer. Codes require that a gas shutoff valve be installed in the gas line ahead of the fryer.

The gas supply line must be at least the equivalent of ½" (12.7 mm) iron pipe. If using the optional quick-disconnect flex hose, ¾" (19 mm) iron pipe.

Make sure the pipes are clean and free of obstructions, dirt, and piping compound. A battery requires one or two connections of appropriate size for the gas requirement.

Prior to lighting, check all joints in the gas supply line for leaks. Use soap and water solution.

Do not use an open flame

After piping has been checked for leaks, fully purge gas pipes to remove air.

GAS PRESSURES (ALL MODELS):

The gas pressure should be set at 4" W.C. (Water Column) (0.8 kPa) for natural gas and 10" W.C. (2.75 kPa) for propane gas. If incoming pressure exceeds ½ PSI (3.45 kPa), an additional pressure regulator must be installed.

TESTING THE GAS SUPPLY PIPING SYSTEM:

When test pressures exceed ½ PSI (3.45 kPa), the fryer and its individual shutoff valve must be disconnected from the gas supply piping system.

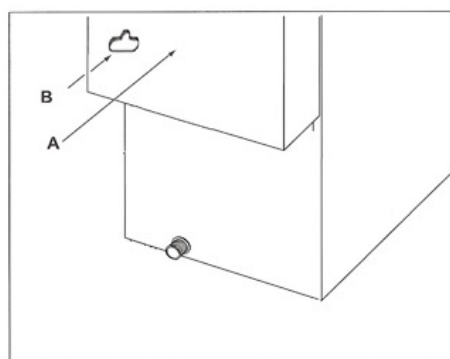
When test pressures are ½ PSI (3.45 kPa) or less, the fryer must be isolated from the gas supply piping system by closing its individual shutoff valve.

Fryers with Casters:

Separate instructions for installing casters are included with the casters:

The installation shall be made with a connector that complies with the

- Standard for Connectors for Movable Gas Appliances, ANSI Z21.69, 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 CSA 6.9 or Quick-Disconnect Devices for Use with Gas Fuel,
- When installing a quick disconnect you must also install a means for limiting the movement of the fryer. This device will prevent the gas line or quick disconnect from being strained. The restraining device should be attached to the cutout on the back panel. See illustration for location.



A Rear of Fryer
B Strain Relief Chain Connection
 (Chain supplied by others)

- The fryer must be installed with a connector (not supplied by Factory) complying with the above codes.
- The fryer must be installed with restraining means to guard against transmission of strain to the connector. See illustration.
- The fryer must be installed with the casters provided.
- If the restraint is ever to be disconnected, first turn the gas supply off. If disconnection of the restraint is necessary, to reconnect this restraint after the fryer has been returned to its originally installed position.

LEVELING THE FRYER

- Check the level of the fryer by placing a level on top of the fryer after gas connections have been made.
- Ensure that the fryer is level front-to-back and side-to-side in the final installed position.
- Lock the wheels after unit is level.

OPERATION

- Hot oil and parts can cause burns. Use care when operating, cleaning and servicing the fryer.
- Spilling hot frying compound can cause severe burns. Do not move fryer without draining all frying compound from the tank.
- Fryer is not to be used during a power outage

OVER-TEMPERATURE SHUTDOWN

- If the shortening becomes overheated, a high-temperature shutoff device will turn the gas valve off and extinguish the pilot.
- If the fryer shuts down due to overheating, DO NOT relight the pilot until the shortening temperature is below 300°F (149°C).
- If an overheating situation persists, contact your local authorized service office.

BEFORE FIRST USE

Cleaning

New units are wiped down at the factory to remove any visible signs of dirt, oil, grease, etc. remaining from the manufacturing process.

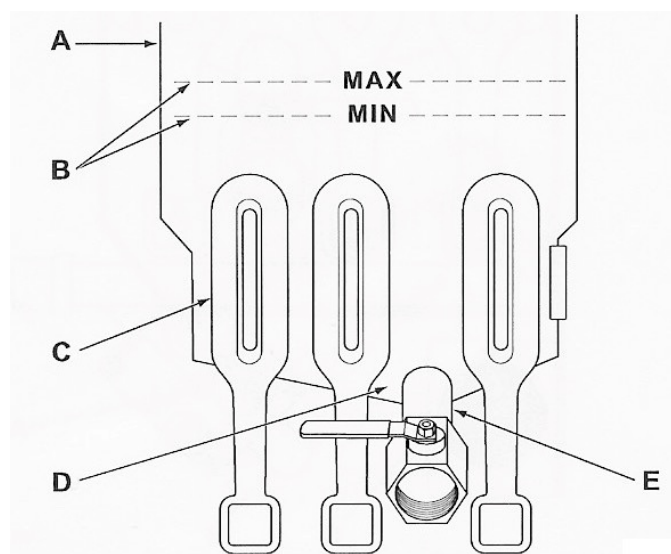
Before any food preparation, thoroughly wash the protective oil from all surface parts and the tank interior with hot soapy water to remove any film residue and dust or debris.

Do not use chlorine or sulfate/sulfide cleaners.

- Wash any accessories shipped with unit.
- Rinse fryer and accessories thoroughly and drain the fryer.
- Wipe tank completely dry with a soft, clean cloth.

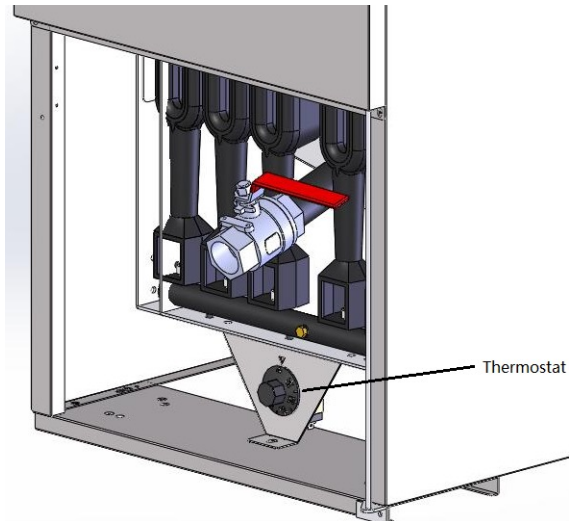
USE OF SHORTENING

Solid shortening must NOT be used with this fryer. Melting solid shortening will damage the tank and void your warranty.

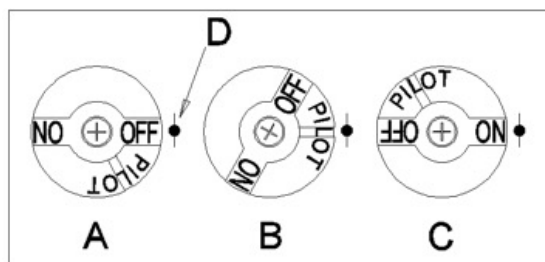


A Frying tank B Oil filling indicating line C Heating tube D Cold zone E Drain cock

- Close the drain valve.
- Fill the fryer tank with liquid shortening.
- Shortening level should be between the min and max lines in the fryer tank.
- Shortening will expand when heated. Do not fill the fryer tank over the MAX line.
- Add fresh shortening as needed to maintain oil level.



1. Open the door.
2. Make sure that thermostat is set to OFF. The thermostat is located behind the door.
3. Push the gas control valve knob and turn to OFF. Wait 5 minutes for unburned gas to vent.
4. Push and turn gas control valve knob to the “L” in PILOT (see figure below, view B).
5. While still holding the knob in, light the pilot with a lit flame. Continue to depress the knob until pilot remains lit when knob is released. If the pilot does not remain lit, repeat step 3 through 5.
6. Depress and turn gas control knob to ON (See figure below, view C).
7. If gas supply is interrupted, repeat steps 2 through 6.



- A Gas Valve Knob, View A**
B Gas Valve Knob, View B
C Gas Valve Knob, View C
D Indicator Point, All Views

TURNING ON THE FRYER

- Set the temperature knob to desired temperature.
- After the set temperature has been reached, the thermostat shuts off the gas flow to burners.
- The pilot remains lit. The burners will cycle on and off, maintaining the set temperature.

TURNING OFF THE FRYER

1. Turn the thermostat OFF.
2. To keep the pilot lit, turn the gas valve to "L" in Pilot.
3. To shut off all gas to the system, including the pilot, turn the gas valve knob to the OFF position.

EXTENDED SHUTDOWN

1. Turn the thermostat knob to OFF.
2. Push in the pilot knob and turn to OFF.
3. Thoroughly drain the fryer. Refer to DRAINING THE FRYER.
4. Clean the fryer according to CLEANING.
5. Turn off the main gas shutoff valve.

BASIC FRYING INSTRUCTION

- Set the desired temperature and allow shortening to heat up to that temperature.
- Fry items that are the same size to ensure equal doneness.
- Drain or wipe dry raw or wet foods to minimize splatter when lowering into hot shortening.
- Add fresh shortening as needed.

FRY BASKET GUIDELINES

- Do not overfill baskets. (See table for recommended basket capacities below) Carefully lower basket into oil.
- When frying doughnuts and fritters, turn product only once during frying.
- When cooking French fries or onion rings, shake the basket several times.
- Batter-covered foods should be dropped carefully, one by one, into shortening or basket. If you use the basket, first dip the basket into the shortening to reduce batter-build up on basket surfaces.
- When frying is completed, remove basket or product. Hang basket on rear hanger.

EXTENDING SHORTENING LIFE

Shortening life can be extended by the following guidelines:

- Do not salt foods over the fryer.
- Use good-quality shortening.
- Filter shortening daily (at a minimum).
- Replace shortening if it becomes poorly flavored.
- Keep equipment and surrounding clean.
- Set thermostat correctly.
- Remove excess moisture and particles from food products before placing on fryer.

DRAINING THE OIL

1. Hot oil and hot parts can cause burns. Use care when operating, cleaning, and servicing the fryer.
2. Turn the thermostat knob to the OFF position. .
3. Insert the drain extension into the drain valve. Tighten only hand tight.
4. Direct the drain extension into the mobile filtering device that you want to use.
5. Slowly open the drain valve to allow oil to flow from the fry tank to the filter pan. Then open the drain valve all the way.
6. When fry tank is empty brush to remove any additional debris.
7. Close the drain valve.
8. Fill tank with new shortening. Fill to a minimum of the MIN level but no higher than halfway between MIN and MAX. Oil will expand as it is heated.

9. After the fry tank is filled with new oil, turn the thermostat knob to the desired set temperature. The burners will come on and will heat the oil.

CLEANING

Hot oil and hot parts can cause burns. Use care when operating, cleaning, and servicing the fryer.

Daily

Clean your fryer regularly with cleaning brush along with a damp cloth, and polish with a soft dry cloth. If regular cleaning is neglected, grease will be burned on and discolorations may form.

Fingerprints are sometimes a problem on highly polished surfaces of stainless steel. They can be minimized by applying a cleaner that will leave a thin oily or waxy film.

- Clean all exterior surfaces of your fryer at least once daily.
- Use a damp cloth with warm water and a mild soap or detergent.

Do not use chlorine or sulfate/sulfide cleaners.

- Rinse thoroughly, and then polish with a soft dry cloth.
- Keep the fryer exterior clean and free of accumulated grease to prevent stubborn stains from forming. If regular cleaning is neglected, grease will be burned on and discolorations may form.
- Remove discolorations by washing with any detergent or soap and water.
- Use a self-soaping, non-metallic scouring pad for particularly stubborn discolorations.
- Always rub with the grain of the stainless steel.
- Do not use a metallic scoring pad or harsh cleaners.

BOIL OUT PROCEDURE

Weekly or as required:

1. Drain the tank as described under DRAINING THE TANK.
2. Once the shortening has been drained, flush out scraps and sediment using the cleaning brush.
3. Close the drain valve and fill tank water. Use a low foaming cleaner/degreaser to clean the fry tank. Follow the instructions on the side of the package.

Do not use chlorine or sulfate/sulfide cleaners.

4. Solution level must be between the MIN and MAX levels on the fryer tank.
5. Set the temperature knob to 200°F or for the recommended solution being used. Allow solution to simmer for about 15 to 20 minutes.
6. Drain the cleaning solution from the tank.
7. Close the drain valve and refill the tank with water. Add 1 cup (1/4 L) of vinegar to neutralize alkaline left by the cleaner. Solution level must be between the MIN and MAX level on the fryer tank.
8. Bring the solution to a simmer only, turn the thermostat off. Allow to stand for a few minutes.
9. Drain the tank according to DRAINING THE TANK. Rinse thoroughly with clear, hot water. All traces of cleaner must be removed. Dry the tank thoroughly.
10. Close the drain valve and add shortening. Follow the FILLING TANK WITH SHORTENING procedure in this manual. The fryer is now ready for use.

MAINTENANCE

Hot oil and hot parts can cause burns. Use care when operating, cleaning, and servicing the fryer.

Spilling hot fryer compound can cause severe burns. Do not move fryer without draining all frying compound from the tank.

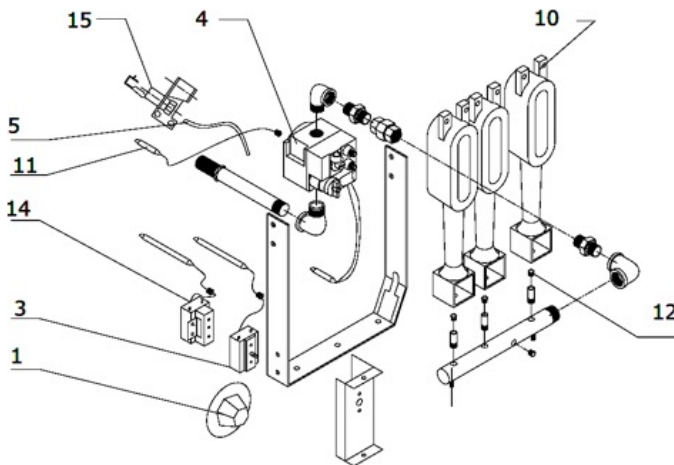
FLUE VENT INSPECTION

When the fryer is cool, inspect annually. Check the flue and clear any obstructions.

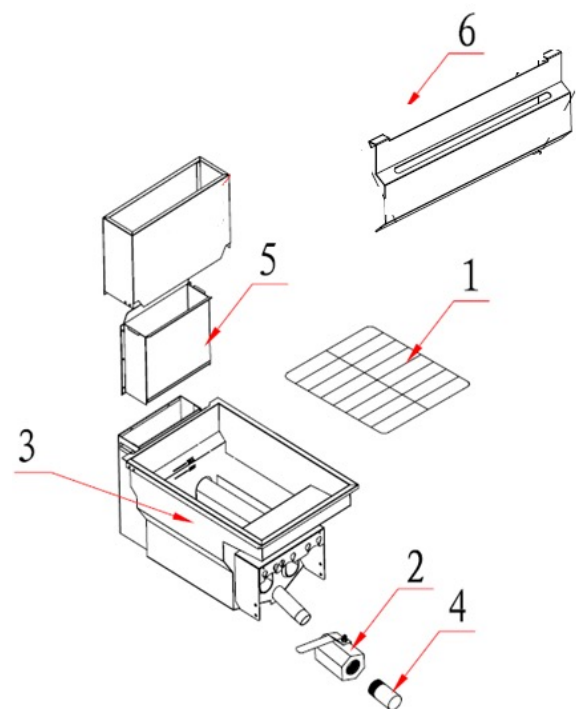
TROUBLESHOOTING CHART

Problem:	Probable Cause:
No Heat	Thermostat dial not turned on. Pilot not lit. Gas supply not turned on. Wire connections loose (call service). Wires connections need cleaning (call service). Thermopile (call service)
Insufficient or too much heat	Thermostat dial not set to desired temperature. High limit tripped (call service). Temperature probe (call service)
Tank will not drain	Shortening too cold. Drain pipe clogged with debris.

Parts List



Key	Qty	Description
1	1	Knob of thermostat
3	1	Thermostat Fryer, regulating 200-400
4	1	Main control Valve (Nat) Invensys
4	1	Main control valve (LP) Invensys
5	1	1/4" fryer pilot pipe
10	ea	Burner, Fryer
11	1	Safety thermopile 18"
12	ea	Orifice # 39 (Nat)
12	ea	Orifice # 52 (LP)
14	1	High limit 450F
15	1	Pilot



Key	Qty	Description
1	1	Screen, crumb, 3 and 4 tube fryer
2	1	Drain cock
3	1	Tank (excluding flue)
4	1	Drain, extension
5	1	Flue, top, removable
6	1	Flue, wrap, top, removable