

INSTALLATION, SERVICE AND PARTS MANUAL FOR

TILTING BRAISING PAN

MODELS: G-23-O, G-40-O,

G-23-C, G-40-C

& E-23-O, E-40-O, E-23-C, E-40-C





OPERATING, INSTALLATION AND SERVICE PERSONNEL

Operating information for this equipment has been prepared for use by qualified and/or authorized operating personnel.

All installation and service on this equipment is to be performed by qualified, certified, licensed and/or authorized installation or service personnel, with the exception of any marked with a \Box in front of the part number.

Service may be obtained by contacting the Factory Service Department, Factory Representative or Local Service Agency.

DEFINITIONS

QUALIFIED AND/OR AUTHORIZED OPERATING PERSONNEL

Qualified or authorized operating personnel are those who have carefully read the information in this manual and are familiar with the equipment's functions or have had previous experience with the operation of the equipment covered in this manual.

QUALIFIED INSTALLATION PERSONNEL

Qualified installation personnel are individuals, a firm, corporation or company which either in person or through a representative are engaged in, and are responsible for:

- 1. The installation of gas piping from the outlet side of the gas meter, or the service regulator when the meter is not provided, and the conneciton and installation of the gas appliance. Qualified installation personnel must be experienced in such work, be familiar with all precautions required, and have complied with all requirements of state or local authorities having jurisdiction. Reference in the United States of America National Fuel Gas code ANSI Z223.1 (Latest Edition). In Canada-Canadian Standard CAN1-B149.1 NAT. GAS (Latest Edition) or CAN1-B149.2 PROPANE (Latest Edition).
- 2. The installation of electrical wiring from the electric meter, main control box or service outlet to the electric appliance. Qualified installation personnel must be experienced in such work, be familiar with all precautions required, and have complied with all requirements of state or local authorities having jurisdiction. Reference: In the United States of America-National Electrical Code ANSI NFPA No. 70 (Latest Edition). In Canada-Canadian Electrical Code Part 1 CSA-C22.1 (Latest Edition).

QUALIFIED SERVICE PERSONNEL

Qualified service personnel are those who are familiar with Vulcan equipment who have been endorsed by the Vulcan-Hart Corporation. All authorized service personnel are required to be equipped with a complete set of service parts manuals and stock a minimum amount of parts for Vulcan equipment.

SHIPPING DAMAGE CLAIM PROCEDURE

For your protection, please note that equipment in this shipment was carefully inspected and packed by skilled personnel before leaving the factory. The transportation company assumes full responsibility for safe delivery upon acceptance of this shipment.

If shipment arrives damaged:

- 1. VISIBLE LOSS OR DAMAGE Be certain this is noted on freight bill or express receipt and signed by person making delivery.
- 2. FILE CLAIM FOR DAMAGES IMMEDIATELY Regardless of extent of damage.
- 3. CONCEALED LOSS OR DAMAGE If damage is unnoticed until merchandise is unpacked, notify transportation company or carrier immediately, and file "concealed damage" claim with them. This should be done within (15) days of date of delivery is made to you. Be sure to retain container for inspection.

We cannot assume responsibility for damage or loss incurred in transit. We will, however, be glad to furnish you with necessary documents to support your claim.

PLEASE RETAIN THIS MANUAL FOR FUTURE REFERENCE

IMPORTANT NOTES FOR ALL VULCAN APPLIANCES

- 1. These units are produced with the best possible workmanship and material. Proper installation is vital if best performance and appearance are to be achieved. Installer must follow the installation instructions carefully.
- Information on the construction and installation of ventilating hoods may be obtained from the "Standard for the installation of equipment for the removal of smoke and grease laden vapors from commercial cooking equipment," NFPA No. 96 (latest edition) available from the National Fire Protection Association, Battery March Park, Quincy MA 02269.
- 3. For an appliance equipped with a flexible electric supply cord, the cord is equipped with a three prong (grounding) plug. This grounding plug is for your protection against shock hazard and should be plugged directly into a properly grounded three prong recepticle. Do not cut or remove the grounding prong from this plug. If the appliance is not equipped with a grounding plug, and electric supply is needed, ground the appliance by using the ground lug provided (refer to the wiring diagram).

(FOR GAS APPLIANCES ONLY)

- 4. Do not obstruct the air flow into and around the appliance. This air flow is necessary for proper combustion of gases and for ventilation of the appliance. Provisions for ventilation of incoming air supply for the equipment in the room must be in accordance with National Fuel Gas Code ANSI Z223.1 (latest edition).
- 5. Do not obstruct the flow of flue gases from the flue duct (when so equipped) located on the rear (or sides) of the appliance. It is recommended that the flue gases be ventilated to the outside of the building through a ventilation system installed by qualified personnel.
- 6. For an appliance equipped with casters, (1) the installation shall be made with a connector that complies with the Standard for Connectors for Movable Gas Appliances, ANSI Z21.69 (latest edition), and Addenda, Z21.69a (latest edition), and a quick-disconnect device that complies with the Standard for Quick-Disconnect Devices for Use With Gas Fuel, ANSI Z21.41 (latest edition), and Addenda, Z21.41a (latest edition) and Z21.41b (latest edition), and (2) 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.
 - If disconnection of the restraint is necessary, reconnect this restraint after the appliance has been returned to its originally installed position.
- 7. The appliance and its individual shutoff valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of ½ psig (3.45 k Pa).
- 8. The appliance must be isolated from the gas supply system by closing its individual manual shutoff valve during any pressure testing of the gas supply system at test pressures equal to or less than ½ psig (3.45 k Pa).

CAUTIONS

FOR YOUR SAFETY

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

- 1. KEEP THE APPLIANCE FREE AND CLEAR FROM ALL COMBUSTIBLE SUBSTANCES.
- 2. IN THE EVENT A GAS ODOR IS DETECTED, SHUT UNIT(S) DOWN AT THE MAIN SHUTOFF VALVE AND CONTACT THE LOCAL GAS COMPANY OR GAS SUPPLIER FOR SERVICE.
- 3. POST IN A PROMINENT LOCATION, INSTRUCTIONS TO BE FOLLOWED IN THE EVENT THE SMELL OF GAS IS DETECTED. THIS INFORMATION MAY BE OBTAINED FROM A LOCAL GAS SUPPLIER.

VULCAN BRAISING PANS INSTALLATION, SERVICE AND PARTS MANUAL

INDEX

Vulcan Braising Pans are produced with the best possible workmanship and material. Proper usage and maintenance will result in many years of satisfactory performance.

The manufacturer suggests that you thoroughly read this entire manual and carefully follow all of the instructions provided.

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NOTE: All wiring diagram labels are also attached on the back of one of the front doors of the cabinet of the braising pan.

Fig. 14: Wiring diagram - Gas heat unit - Electric ignition (Thermostatic temperature control)

Fig. 15: Wiring diagram - Gas heat units - Electric ignition (Solid State temperature control)

Also, a rating plate is located on the back of one of the front doors. It states the model and serial numbers, type of gas, manifold pressure, BTU/Hr. total, and watts for gas units. It states the model and serial numbers, voltage, phase and KW rating for electric units.

A. INSTALLATION INSTRUCTIONS

1. Carefully uncrate the unit. Be certain no parts or manuals are discarded with crating material.

2. Set up:

Place the unit in the desired position. Check that there are sufficient clearances to service the controls, for door swings etc., and so that there will be no problem in making the required supply connections. Recommended clearances are 24 inches on sides and back (for servicing), and 36 inches on front. The ceiling should be at least 72 inches from floor.

NOTE: If the walls are made of combustible material, then the unit must be positioned so that there will be 6 inches or more clearance between the wall and back and/or sides.

3. Leveling and Anchoring:

Using a spirit level and with the adjustable feet, level the braising pan table top. Do not attempt to level the braising pan clad plate. The table top level can be changed by rotating the leg adjusting nut. Level the braising pan table top front to back and left to right.

IMPORTANT: After leveling, anchor the unit. Use the holes in the flanges of rear feet for anchor bolts.

4. To reach service and utility connections remove the left side panel. To remove, hold the panel from underneath and lift it up. While holding the panel up, swing out the lower part of the panel until it clears the top flange and remove.

If required, the rear panel and inner side panels (openframe models only) can also be removed using the same procedure.

Gas Connection - Gas Heat Units Only (See Figure 1)

- (a) Be sure gas supply and gas type as shown on the braising pan nameplate, agree. The nameplate is located on the back of one of the front doors.
- (b) Connect a ½ inch (nominal) gas supply line to unit. Recommended gas line pressure: 7" W.C. for natural gas and 12" W.C. for propane gas.
- (c) Installation of a manual shut-off valve (not supplied with the unit) in supply line is recommended to permit complete shut-down of unit for service.

- (d) **CAUTION:** Use only pipe thread sealing compounds which are resistant to the action of liquified petroleum gases.
- (e) Check all gas piping for leaks with a soap and water solution before operating the unit.

CAUTION: Do not use an open flame to check for leaks, use soap solution.

- (f) Installation must conform with local codes and with the National Fuel Gas Code, ANSI Z223.1 1984 (copies may be obtained from American Gas Association 1515 Wilson Blvd., Arlington, Virginia 22209).
- (g) Electrical control circuit must be connected per item 7 on page 6.
- (h) The appliance and its individual shutoff valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of ½ psig (3.45 kPa).
- (i) The 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 pressures equal to or less than ½ psig (3.4566 kPa).
- **6. Electric Power Connection -** Electric Heat Units Only (See Figure 2)
- (a) The voltage and phase of the supply circuit and the rating marked on teh nameplate of the unit must be in agreement.
- (b) All units are provided with a control box for field wire connection, on lower left side of the unit. Knockout hole is provided for a 1" conduit connection.
- (c) Remove control box cover plate. Mount suitable 1" conduit fittingg in knockout opening.
- (d) Connect field wire to the terminal block as indicated on wiring diagram. Wire must be of the type suitable for 75° C service, and of thickness as indicated on marking next to junction box.
- 7. Wiring Diagram Location The Wiring Diagram for the unit is located on the inside of the left door on closed base units and on the inside of the center door of open base units.

A. INSTALLATION INSTRUCTIONS (Continued)

MODEL NO.	NATURAL GAS B.T.U./hr.	PROPANE GAS B.T.U./hr.
G-23-C	90,000	90,000
G-40-C	120,000	120,000

DIMENSIONS - INCHES						
Model No.	A	В	С	D		
G-23-C	36	371/2	91/2	64		
G-40-C	48	391/2	111/2	66		

If 9" (229 mm) deep pan (total capacity 30 gallons) is specified on model G-23-C add 2" (51 mm) to dimensions "B", "C", and "D".

LEGEND

- Electric connection 120 V 1-phase 50/60 Hz control circuit 300 watts maximum.
- 2. Gas connection 1/2" N.P.T.
- (Optional extra) Hot and cold water connections if spray hose specified. (Connections are ½" N.P.T.)

Incoming gas supply line pressure must be 7" water column or above for natural gas and 12" water column or above for propage gas. (For other gases inquire.)

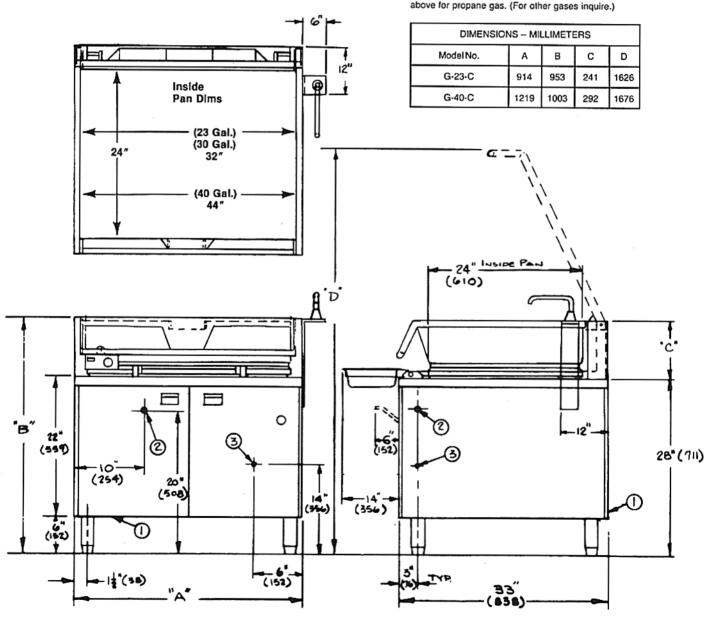


FIGURE 1

SERVICE CONNECTION
GAS HEAT UNITS

A. INSTALLATION INSTRUCTIONS (Continued)

DIMENSIONS - INCHES						
Model No.	A	В	С	D		
E-23-C	36	371/2	91/2	64		
G-40-C	48	391/2	111/2	66		

If 9" (229 mm) deep pan (total capacity 30 gallons) is specified on model E-23-C add 2" (51 mm) to dimensions "B", "C", and "D".

LEGEND

- Electric connection 120 V 1-phase 50/60 Hz control circuit with grounding wire required. (300 watts maximum) not required when step down transformer specified: (Optional extra).
- 2. Electrical power connection 1%" diameter. (1" conduit)
- (Optional extra) Hot and cold water connections if spray hose specified. (Connections are ½" N.P.T.)

DIMENSIONS - MILLIMETERS						
Model No.	Α	В	С	D		
E-23-C	914	953	241	1626		
E-40-C	1219	1003	292	1676		

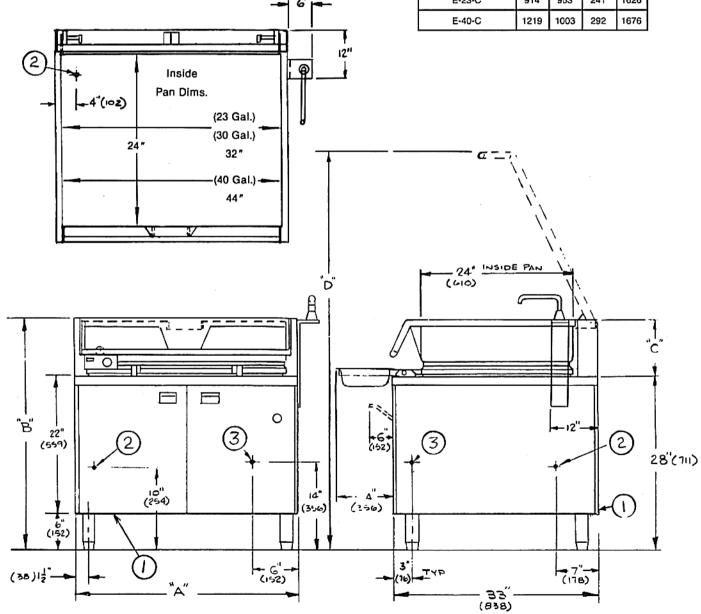


FIGURE 2

SERVICE CONNECTION GAS HEAT UNITS

A. INSTALLATION INSTRUCTIONS (Continued)

(e) For convenience in testing, rated amperages are listed below:

		E-2	3 C,0,	Ter of	E-4	OC,C	
VOLTS	PHASE	K.W.	AMP	K.W.	lx	ly	lz
208	1	10.2	49	13.6	65	65	-
240	1	13.5	57	18.0	75	75	-
208	3	10.2	29	13.6	43	43	29
240	3	13.5	33	18.0	50	50	33
480	3	13.5	17	18.0	25	25	17

NOTE: These values are nominal ratings. Field wire connections must be capable of withstanding anticipated surges.

- (f) After making the connections, replace the control box cover plate.
- (g) Following precautions must be observed:
 - (1) Installing personnel should be guided by National Electrical Code NFPA No. 70-1984 and applicable local codes.

- (2) The equipment must be grounded, by installing a grounding lead, properly grounded, to ground lug located inside the junction box.
- (h) Electrical control circuit must be connected per item 7 below.
- 7. Control Circuit Power Connection: All units (See Figures 1 and 2). Connect a 120 volt, 50/60 Hz, 1 phase supply to the pigtail leads in the junction box located on rear left of the unit. Use copper wire suitable for 5 amperes, and 75° C temperature. A ground wire must be connected to the ground lug in the junction box.

NOTE: This connection is not required on units equipped with the optional step down transformer.

STEPDOWN TRANSFORMER

If optional extra stepdown transformer is supplied then the 120 volt 50/60 Hz 1 phase connection is eliminated.

B. LIGHTING, ADJUSTING AND SHUT DOWN (GAS HEAT UNITS ONLY)

LIGHTING INSTRUCTIONS-STANDARD UNITS

- 1. Lighting instructions label is located on the back of one of the front doors. Pull handle to open door to read instructions and to light the pilot.
- 2. Turn "ON" main gas supply to unit.
- 3. To light the pilot, or to relight the pilot, turn temperature control knob and knob of combination control valve to "OFF". Wait 5 minutes before relighting.
- 4. Turn knob of combination control valve to "pilot". Depress this knob and light pilot using a taper. Pilot is located behind the hole identified with label "lighter and observation hole." Keep the knob depressed for about one minute after lighting the pilot.
- 5. If there is no ignition or if the pilot does not stay lit, then pilot flame may need to be adjustment screw on the combination control valve. Rotate exposed adjusting screw counterclockwise one full turn. Then replace and repeat item (3) above.

- **6.** After pilot is lit, turn the knob of combination control valve to the "ON" position.
- 7. Turn the red rocker switch to "ON". The "ON" position is indicated by glowing red light on the switch. This "on-off" switch is located on a box on lower left corner of braising pan on standard units with thermostatic temperature contol.

NOTE:

- (a) Unit with optional solid state temperatue control: On these units the "On-Off" rocker switch is on a box located underneath the table top and behind the left front door.
- 8. Lower the braising pan (see "Operating Instructions" for procedure). Unit will not operate with the pan in the "up" position.
- 9. Turn the knob of the temperature control to desired cooking temperature.

B. LIGHTING, ADJUSTING, AND SHUTDOWN (Continued)

CAUTION: At start up or after servicing, fill the braising pan with approximately 5 gallons of water before turning the heat "on". This will prevent the stainless steel bottom of braising pan from being discolored.

10. Main Burner Air Supply

For efficient burner opertion, it is important that a proper balance of gas volume and primary air supply is maintained, resulting in complete combustion. Insufficient air supply results in a yellow streaming flame. Primary air supply is controlled by the air shutter on the front of the burner venturi.

Loosen the screws on front of the burner, and adjust the air shutter to just eliminate yellow tips of burner flame. Lock the air shutter in place by tightening the screws. Repeat this procedure with all burners.

11. Shutdown (complete)-Standard Units

(a) Turn the manual shut-off valve to "OFF" if one is installed (Refer to installation instructions on page 3 of this manual) or; turn temperature control knob and knob of combination control valve to the "OFF" position. Knob of combination control valve depresses slightly to turn to "OFF" position.

- (b) Rotate pilot adjusting screw (item 5 on page 6) clockwise until the pilot goes out.
- (c) Turn red rocker switch to "OFF" position.

12. LIGHTING INSTRUCTIONS-Electric Ignition Units

- If pilot is out, turn pilot switch, temperature control knob of combination control valve to "OFF". IMPORTANT: WAIT 5 MINUTES BEFORE ATTEMPTING TO RE-LIGHT.
- 2. Turn knob of combination control valve to "ON".
- 3. Move pilot toggle switch to "ON".
- If no ignition then system is in lockout. Repeat steps 1 through 3 above.

COMPLETE SHUTDOWN INSTRUCTIONS—Electric Ignition

- Turn pilot switch, temperature control knob and knob of combination control valve to "OFF".
- Rotate pilot adjusting screw (item 5) clockwise until pilot goes out.

C. CHECKING TEMPERATURE CONTROL CALIBRATION

I. Units With Thermostat (Standard) (See Fig. 3)

- 1. The braising pan thermostat is carefully calibrated at the factory so that dial settings match actual pan temperature. Field calibration is seldom necessary, unless the unit has been mishandled in transit, or abused. Recalibration should not be resorted to unless considerable experience with cooking results definitely proves that the control is not maintaining the temperature to which the dial is set.
- To check the pan temperatures when recalibrating, use a precision test instrument, or a good grade mercury thermometer.
- 3. Clean an approximate 3/4" diameter spot (of all cooked on fat build up) in the center of clad plate.
- 4. Place a couple of drops of oil on the clean spot, and place thermocouple disc flat on the surface.
- 5. Turn the dial of thermostat being checked, to 350° F mark.
- **6.** After about 10 minutes, check the griddle surface temperature. Continue to check temperature at 5 minute intervals, until two successive readings are within 5 degrees of each other. Thermostat should be recalibrated if temperature reading is not within 10 degrees of the control knob setting (350°F \pm 20°F). If recalibration is required, continue with steps 7, 8, 9, and 10.

- 7. Remove control knob by grasping outer edge and pulling straight out, without twisting or turning.
- 8. Hold thermostat dial shaft "B" (Figure 3) stationary with pliers, and with a screw driver, turn screw "A" (Figure 3) clockwise to obtain a lower temperature or counterclockwise for higher temperature. Each turn (90° rotation) of screw "A", represents 35°F.
- 9. Replace the thermostat control knob.
- 10. Recheck thermostat as in step (4) and (5) above, if the griddle surface temperature is not within 20 degrees of the dial setting (350°F \pm 20°F), it means that the sensing element is inoperative, and the thermostatic control should be replaced.
- 11. CAUTION: Before removing the thermostat, carefully note the capillary routing and the capillary clamp. When installing a new thermostat, fold the capillary in a similar fashion and route it along the front inner edge of braising pan skirt and then through notch on the burner box (for gas heat units) or element cover (for electric heat units). After mounting the new thermostat, lower the braising pan very slowly and make certain that the capillary will not be damaged or crimped when braising pan is fully lowered.

C. CHECKING TEMPERATURE CONTROL CALIBRATION (Continued)

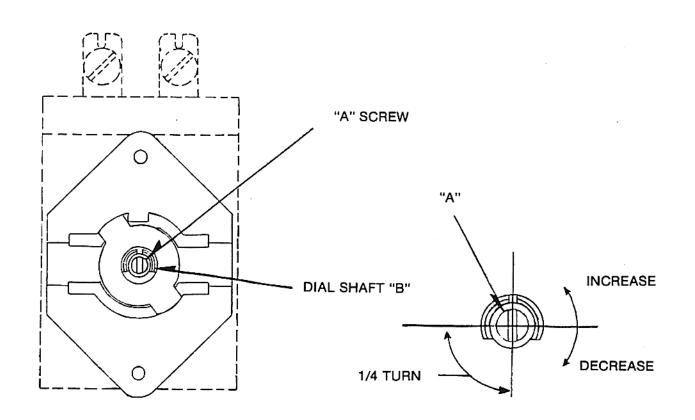


FIGURE 3

THERMOSTAT CALIBRATION

II. Units With Optional Solid State Temperature Control

- 1. Follow above instructions (1) through (7) for unit with thermostat. The solid state temperature control knob is on a box located underneath the table top and behind the left front door.
- 2. Loosen (do not remove) the two screws holding the dial scale, so that the dial will rotate.
- 3. Replace the dial knob.
- 4. Rotate the dial scale so that the index mark of the knob corresponds to temperature recorded on clad plate.

NOTE: The dial scale should not be rotated more than 10° to 15° in either direction. If greater adjustment is necessary, recheck the clad plate temperature recording instrument or replace the temperature controller.

- 5 Remove the dial knob.
- **6.** Tighten the two screws to securely hold dial scale. **(Caution:** do not allow the dial scale to rotate when tightening the screws).
- 7. Replace the control knob.

D. SERVICE

CAUTION: Before undertaking any service, the unit must be disconnected from the electric power supply (two power supplies for electric heat units, if not equipped with a step down transformer).

1. All parts for heating and control systems (both gas and electric) are readily accessible either by raising the braising pan and/or removing side and rear panels (Item 4 of "Installation Instructions" in this manual); and opening the enclosure containing the part to be replaced.

Procedure to replace "Thermostat Conduit Assembly"

- flexible conduit from thermostat box to junction box (gas heat unit) or control box (electric heat unit).
- (a) Remove the thermostat box cover by loosening two screws one on each side by thermostat box.
- (b) Disconnect all wire terminals from the thermostat and the "on-off" rocker switch.
- (c) Loosen two screws on clamp holding the thermostat conduit.
- (d) Raise the braising pan approximately 30 degrees from horizontal.
- (e) Remove rigid end of "Thermostast Conduit Assembly" from underneath the pan weldment.
- (f) Disconnect flexible end of assembly from juntion box or control box.
- (g) Pull out wires from flexible end.
- (h) Reverse the procedure for reassembly of new "Thermostat Conduit Assembly." When reconnecting wire terminals to thermostat and to the on-off switch, check wiring diagram to determine that each numbered wire is connected to it's correct terminal on the controls.

3. Lid Adjustment - (See Figure 6)

The counterbalanced lid may require adjustment of spring tension for correct counterbalance force. Proceed as follows:

- (a) Lower the braising pan and close the lid. There are two spring assembblies to be adjusted. Approach the rear side of the unit.
- (b) Loosen the 1/4" set screw located on spring tension lever located on the inner side of lid spring.
- (d) Clamp the spring tension lever tightly in an open ended adjustable wrench (8" size)

(e) Loosen the other two 1/4" set screws on the spring tension lever.

CAUTION: Hold adjustable wrench tightly during this procedure and until the set screws are tightened on step (g).

- (f) Rotate the spring tension lever toward the front of unit to tighten the spring ½ turn maximum. When attempting to rotate the spring tension lever, it may become necessary to hold the lever from the opposite end and release the original hold. In order to do this, use a second open ended adjustable wrench (8" size) to hold tightly the spring tension lever at opposite end. Then release the first adjustable wrench.
- (g) After readjusting spring tension, retighten all three 1/4" set screws, and the 1/4" hexagonal head bolt on spring mandrel.
- (h) Repeat steps (b) through (g) for adjustment of spring tension at opposite end.
- (i) If the springs are already tightened to the extent thatfurther adjustment distorts the spring, then replace the spring. It is recommended that both springs be replaced as a set.

4. Manual Lift (See Figure 7)

- (a) The gear reducer oil must be replaced after first year of operation and every two years after that. The procedure is as follows:
 - 1. Locate the gear reducer. It is mounted behind the right door and underneath the table top.
 - 2. Unscrew drain plug on the bottom of the reducer and drain all oil.
 - 3. Close the drain hole by tightening the drain plug in place.
 - 4. Open fill plug located on top of the gear reducer.
 - 5. Fill with SAE 40 weight oil of "Gear Lube" quality approximately 1 pint.
- 6. Close the fill hole by tightening the fill plug in place.
 (b) Once a year, check tension and tightness of the lifting system roller chains. Depending upon the location of slack, one or both roller chain assemblies may require adjustment. The procedure is as follows:

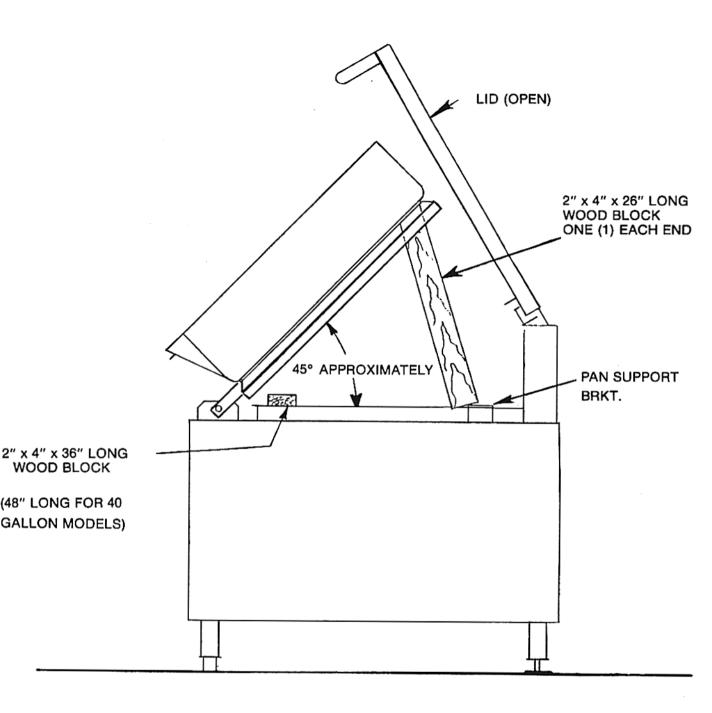


FIGURE 4
METHOD OF SUPPORTING BRAISING
PAN WHEN SERVICING LIFTING SYSTEM

CAUTION: Do not disassemble any parts of the lift system unless the braising pan is supported with two, 26 inch long wood blocks and one 36 inch long wood block (48" for 40 gallon models) (2" x 4" wide as shown on Figure 4). See Items D.4.b (1) and D.4.b (2) for detail procedure.

D. SERVICE (Continued)

1. Raise or lift the braising pan approximately 45° from horizontal.

CAUTION:

Before disconnecting "pan lift pin" (Item 18 Figure 7), block the braising pan with two 26 inch long wood blocks (2" x 4" wide); and one 36 inch long wood block (48 inches long for 40 gallon models) (2" x 4" wide) as shown on Fig.

- Use two 26 inch long blocks, one on each end.
- 3. Loosen 1/4 inch set screw on "pan lift plate" (Item 35, Figure 7).
- Remove "pan lift pin" (Item 18, Figure 7)
- 5. Loosen hex nut (Item 36, Figure7).
- Turn square headed take-up screw (Item 8, Figure 7) to move take-up bracket and tighten or alsoken the roller chain as required.
- 7. Holding the square headed screw (Item 8, Figure 7), tighten hex nut (Item 29, Figure 7).
- Loosen the hex lock nut (Item 37, Figure 7).
- 9. Rotate turn buckle (Item 29, Figure 7) to tighten or slacken the roller chain as required.
- **10.** Tighten the hex lock nut (Item 37, Figure 7) against turn buckle threads (Item 29, Figure 7).
- (c) Other parts of the lift system that show signs of wear should be replaced.

CAUTION: Do not disassemble any parts of the lift system unless the braising pan is supported with two 26 inch long wood blocks and one 36" long wood block (48" long for 40 gallon models) (2" x 4" wide) as shown on Figure 4. See Items D.4.b. (1) and D.4.b (2) above for detail procedure.

Refer to Figure 7 for ordering parts and for reassembling the lift system.

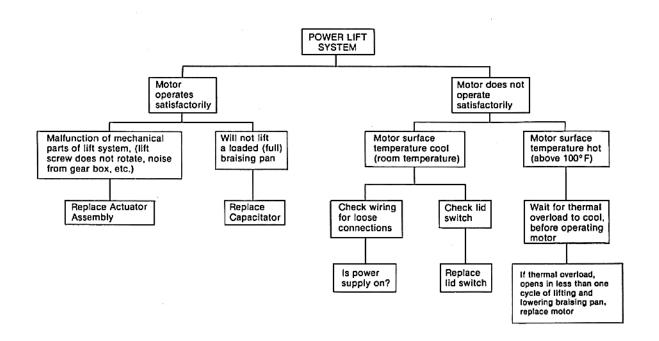
5. Optional Automatic Power Lift: (See Figure 8)

All subsystems of Automatic Power Lift Assembly are lubricated for life; and do not require periodic service. Refer to Figure 8 for ordering parts and for reassembling the lift system.

CAUTION: Do not disassemble any parts of the lift system unless the braising pan is supported with two 26 inch long wood blocks and one 36" long wood block (48" long for 40 gallon models) (2" x4" wide) as shown on Figure 4. See Items D.4.b. (1) and D.4.b. (2) above for detail procedure.

Refer to Figure 8 for ordering parts and for reassembling the lift system.

To service Automatic Power Lift System, proceed as follows:



D. SERVICE (Continued)

6. Interlock Switch Adjustment:

The interlock switch is located approximately 14" below the braising pan on the left rear corner of the unit. This switch shuts off the heat (gas or electric) when the braising pan is raised. The angular lift position of the braising pan at which the heat source is shut off, can be adjusted by lowering or raising the interlock switch. Proceed as follows:

- (a) Remove left isde panel.
- (b) Loosen the two screws mounting the interlock switch to the frame.
- (c) Raising the micro switch (maximum 1/6") will keep the heat source "on" when braising pan is raised 5° from the horizontal. Lowering the micro switch will shut off the heat source at a lower position.
- (d) Retighten mounting screws and remount side panel.

7. Solid State Temperature Control (Optional)

The braising pan is equipped with a solid state temperature control board, a thermistor sensor and a remote set point (set) potentiometer (pot).

- (a) Thermistor Sensor: Attached to the lower surface of the clad plate by means of a spring loaded bayonet type fitting. The wires from the sensor to the temperature control board are protected by means of a stainless steel flexible conduit. To remove the sensor:
- (1) Raise the braising pan. (2) Remove element cover on electrically heated units. (3) Grasp the lower end of the sensor (just above the flexible conduit). (4) Twist 90° to disengage the bayonet. (5) Pull out thermistor sensing bult.
- (b) Temperature Control Board: The solid state board is mounted inside a control box which is located behind the left door and underneath the top panel. To open the box, remove two screws on the back of the box and slowly open the hinged back panel. Different wire leads to the board are attached to quick-disconnect terminals on the board. Each quick-disconnect terminal has a number adjacent to it. The number designation is as follows:

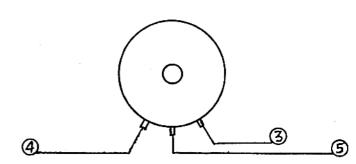
Nos. 1 & 2-Thermistor Sensor Wire Leads Nos. 3, 4, & 5-Wire Leads From Remote Set Pot (see sketch) Nos. 8 & 9-120 Volt A.C. Power Supply

No. 10-Normally Open (N.O.) Contact of Output Relay

No. 11-Normally Closed (N.C.) Contact of Output Relay

No. 12-Common (C) Contact of Output Relay

(c) Remote Set Pot: This is mounted on the front of the same control box in which the solid state board is mounted. To remove, firmly grasp the control knob on front of the box and pull to remove. Remove center nut to dismount the pot. The pot is wired to the temperature control board as shown in sketch below.



VIEW LOOKING AT THE REMOTE SET POTENTIOME-TER FROM FRONT

The three wires to the remote set pot must be soldered to the pot terminals. The numbers on sketch above designate the marked number of quick-disconnect terminals on the solid state board to which that wire should be connected.

(d) Trouble Shooting Procedure: To determine which of the three components need to be replaced, follow the procedure outlines as follows:

TROUBLE SHOOTING

TROUBLE		TEST	RESULT	ACTION
(A) Solid State temperatue		Check power input at terminals 8 and 9.	Input voltage 144 volt or more	Possible damage - replace unit after correcting voltage
remains "OFF" over entire setpoint adjustment range		Must be 120 volt AC	Input voltage 96 volt or less	Correct input voltage
			Correct input voltage.	Go to next step.
	2	Check for proper wiring of all external components to the control	Incorrect Wiring	Correct wiring as required.
		board (thermistor sensor, setpoint pot, etc.)	All wiring correct.	Go to next step.
	3	Check for loose or oxidized connections. Disconnect and reconnect all quick-connect terminals	Still inoperative.	Go to next step.
		Check thermistor sensor resistance by disconnecting sensor from control board and measuring the total	Resistance less than 400 ohms at room temperature.	Check for shorted leads or damaged sensor replace as required.
		loop resistance of the thermistor sensor and lead wire	Resistance greater than 600K ohms at room temperature.	Check for damaged sensor or sensor leads. Replace as required.
			Resistance between 400 and 600K ohms	Go to next step.

TROUBLE SHOOTING (Continued)

TROUBLE		TEST	RESULT	ACTION
(A) Continued	5	Check setpoint pot- entiometer resistance by disconnecting pot from controller and measuring the resistance between leads market (3) and (4) on sketch under (c) above.	Incorrect resistance or open element Correct resistance. 950 to 1050 Ohms	Replace pot Go to next step.
	6	Check setpoint pot- entiometer adjustability. With the ohmmeter connected between leads marked (3) and (5) on sketch	No resistance change or intermittent contact noted	Replace pot
		under (c) on page 12 (above), a steady linear change in resistance should occur as the pot shaft is rotated from one extreme to the other.	changes smoothly	Replace Controller.
(B) Solid State Temperature Control board remains "ON" over entire setpoint range	1	Disconnect one thermistor sensor lead.	Unit remains "ON" Unit turns	Replace controller Go to next step.
	2	Perform test steps 2,3,5, &6 under Trouble (A)	"OFF" Trouble not corrected.	Replace controller
(C) Solid State Temperature Control Chatters	1	Check for low input voltage.	Input voltage 96 Volt or less Correct input voltage	Boost voltage as required. Go to next step.
	2	Check for interference - separate thermistor sensor lead wires and remove setpoint pot lead	Chattering stops.	Reroute, twist, and/or shield the pot and sensor leads as required.
		wires from all power and high level signal wires.	Still chatters	Replace controller

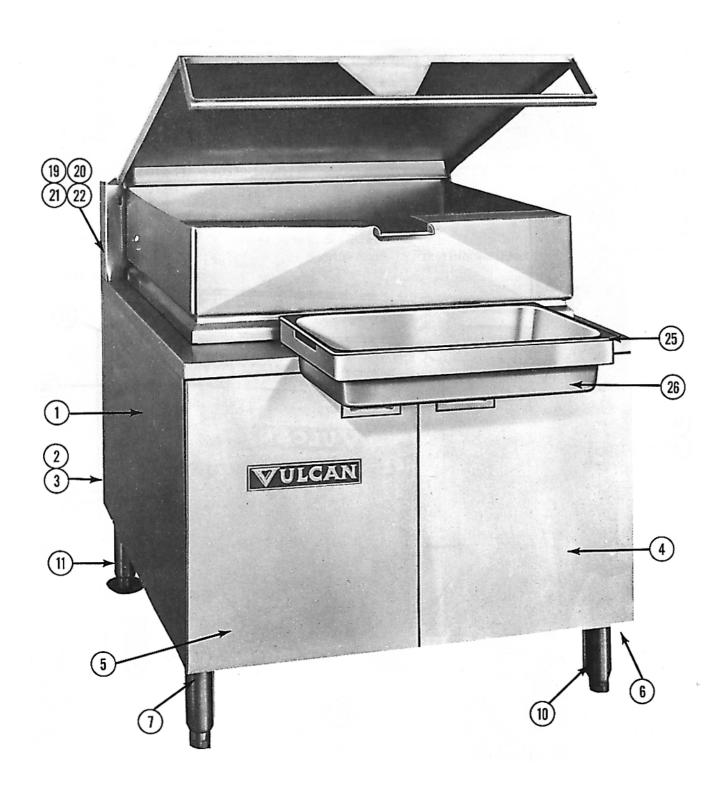
TROUBLE SHOOTING (Continued)

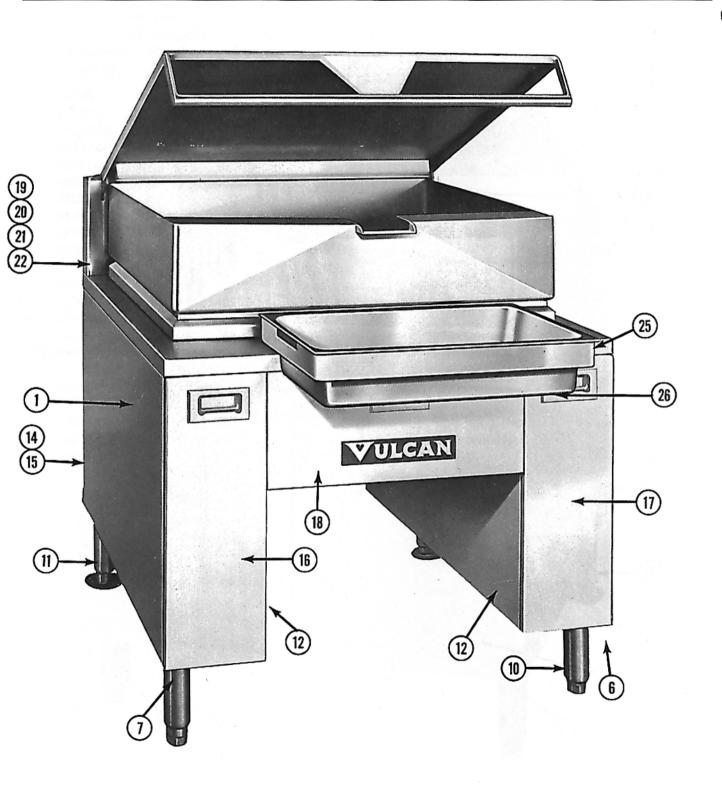
TROUBLE	TEST	RESULT	ACTION
(D)			
Cannot reach minimum	1 Perform tests 2, 5 & 6	No	
desired setpoint	6 under Trouble (A)	discrepancies	Replace controller
temperature.	` '	found.	'
(E)			
Cannot reach maximum	1 Perform tests 2 thru	No	
desired setpoint	6 under Trouble (A).	discrepancies	
temperature.		found	Go to next step.
	2 Check thermistor	Resistance	Check sensor circuit
	sensor circuit for OPEN	suddenly	for faulty wiring or
	or SHORT CONDITION	increases	connections
	at or above maximum	above or	(especially crimp or
	desired temperature.	decreases	pressure connections)
		below the normal	
	NOTE: Disconnect	value as the	Correct or replace
	controller and measure	desired temp	faulty component and
	entire sensor loop	is approached.	recalibrate controller
	resistance including		
	lead wires.	Resistance	
		correct	Replace controller

E. REPLACEMENT PARTS LIST

1. Cabinet Parts (See Figure 5A and 5B Size of Braising Pan

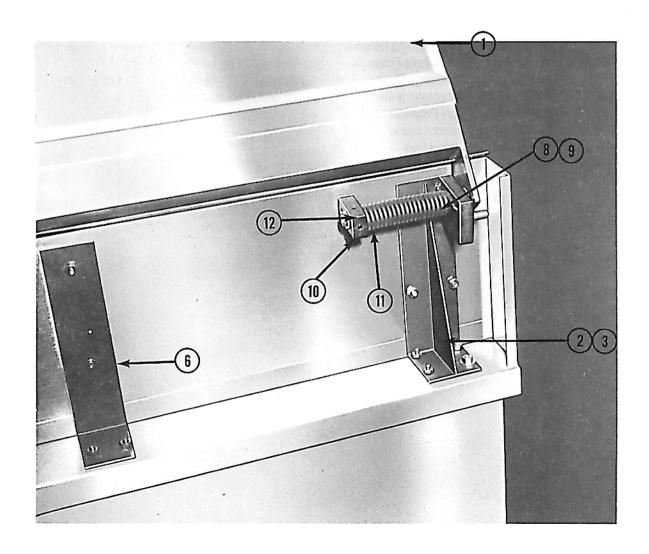
	31260	Size of Braising Pan		_	
	23 Gallon	30 Gallon	40 Gallon	•	Qty.
Item	Part No.	Part No.	Part No.	Description	Per Unit
1	81536	81536	81536	Side Panel	2
2	81537-11	81537-11	40326-11		2
				Rear Panel (Closed Base) Aluminized Steel	1
3	81537-12	81537-12	40326-12	Rear Panel (Closed Base) Stainless Steel	1
4	40437-001	40437-001	40344-001	Left Door Assembly (Closed Base)	1
5	40191-001	40191-001	40347-001	Right Door Assembly (Closed Base)	1
6	42032-11	40232-11	40232-11	Hinge Assembly, Right Door	1
7	42032-12	42032-12	42032-12	Hinge Assembly, Left Door	1
8	81751	81751	81751	Magnet Latch Bracket (Not Shown on Photo)	2 or 3
9	81761	81761	81761	Door Magnet (Not Shown on Photo	2 or 3
10	81525	81525	81525	Leg, 6" High Bullet Foot	2
11	81526	81526	81526	Leg, 6" High, Flanged Foot	2
12	40285	40285	40285	Panel, Inner Side (Open Base)	2
14	40200-1 1	40200-11	40200-11	Rear Panel (Open Base) Aluminized Steel	2
15	40200-12	40200-12	40403-12	Rear Panel (Open Base) Stainless Steel	2
16	40385-001	40385-001	40409-001	Left Door Assembly (Open Base)	1
17	40382-001	40382-001	40404-001	Right Door Assembly (Open Base)	1
18	40381-001	40381-001	40381-001	Center Door Assembly (Open Base)	1
19	40149-001	40264-001	40332-001	Shroud Assembly, Gas Heat Units	1
20	40027	40266	40334	Shroud, Electric Heat Units	1
23	40037-001	4037-001	40037-001	Pan Bearing Assembly (Right Hand) (Not Shown on Photo)	1
24	40037-002	40037-002	40037-002	Pan Bearing Assembly (Left Hand) (Not Shown on Phot)	1
25	40291-001	40291-001	40375-001	Pan Rack Assembly (Stationary)	1





2. Lid Parts (See Figure 6)
Size of Braising Pan

	3120	n braising ra	11	_	
	23 Gallon	30 Gallon	40 Gallon		Qty.
_ltem	Part No.	Part No.	Part No.	Description	Per Unit
1	40151-001	40151-001	40350-001	Lid Assy. (Units with stationary pan support-standard)	1
1	40428-001	40151-001	40350-001	Lid Assy. (Units with articulated pan support-option)	1
2	40021-001	40261-001	40261-001	Lid Support Assembly - Right Hand	1
3	40021-002	40261-002	40261-002	Lid Support Assembly - Left Hand	1
6	40022	40263	40263	Shroud Support Bracket (Electric Heat Only)	1
8	40012-11	40012-11	40339-11	Lid Torsion Spring - Right Hand	1
9	40012-12	40012-12	40339-12	Lid Torsion Spring - Left Hand	1
10	40013	40013	40013	Spring Tension Lever	2
11	40014	40014	400340	Lid Spring Mandrel	2
12	10-30-041	10-30-041	10-30-041	1/4-20 Set Screw	6
13	_	_	40247	Support for Shroud Support Bracket (Electric Heat Only)	1
(Not 9	Shown on Ph	noto)		•	



3. Gas Heat Parts

	Size	of Braising Pa	ın	_	
	23 Gallon	30 Gallon	40 Gallon		Qty.
ltem	Part No.	Part No.	Part No.	Description	Per Unit
1	40105-001	40105-001	40315-001	Elus Dust Assembly	
2	40103-001			Flue Duct Assembly	1
		40103	40317	Flue Duct Rear	1
3	40145	40145	40353	Secondary Air Baffle	1
4	40009	40009	40410	Heat Shield - Closed Frame Units	1
5	40283	40283	40413	Heat Shield - Open Frame Units	1
6	40144	40144	40144	Burner & Air Shutter Assembly	3 or 4
7	40096-11	40096-11	40096-11	Burner Fitting With Hood - Natural Gas	3 or 4
8	40096-12	40096-12	40096-12	Burner Fitting With Hood - Propane Gas	3 or 4
9	40343-001	40343-001	40343-001	Combination Gas Valve - Natural Gas	1
10	40343-002	40343-002	40343-002	Combination Gas Valve - Propane Gas	1
11	40098	40098	40308	Gas Manifold	1
12	40095-001	40095-001	40309-001	Runner Burner Weldment	1
13	20186-14	20186-14	20186-14	Runner Burner Orifice Fitting - Natural Gas	1
14	20186-12	20186-12	20186-12	Runner Burner Orifice Fitting - Propane Gas	1
15	40099	40099	40099	Runner Burner Supply Tube	1
16	40125	40125	40125	Pilot Mounting Bracket	1
17	40128	40128	40128	Pilot Supply Tube	1
18	40176	40176	40176	Pilot Flame Guard	. 1
19	40127-11	40127-11	40127-11	Pilot - Natural Gas	1
20	40127-12	40127-12	40127-12	Pilot - Propane Gas	1
21	20040	20040	80828	Thermocouple	1
22	15 - 03-00 1	15-03-001	15-03-001	Ground Lug	1
23	40032-001	40032-001	40032-002	Interlock Switch Actuator Assembly	1
24	97487	97487	40430	Interlock Switch (Microswitch)	1
25	_	_	10-42-014	Cotte Pin (For 40032-002	1
26	-	-	40313	Support - Flue Collector	1

4. Electric Heat Parts

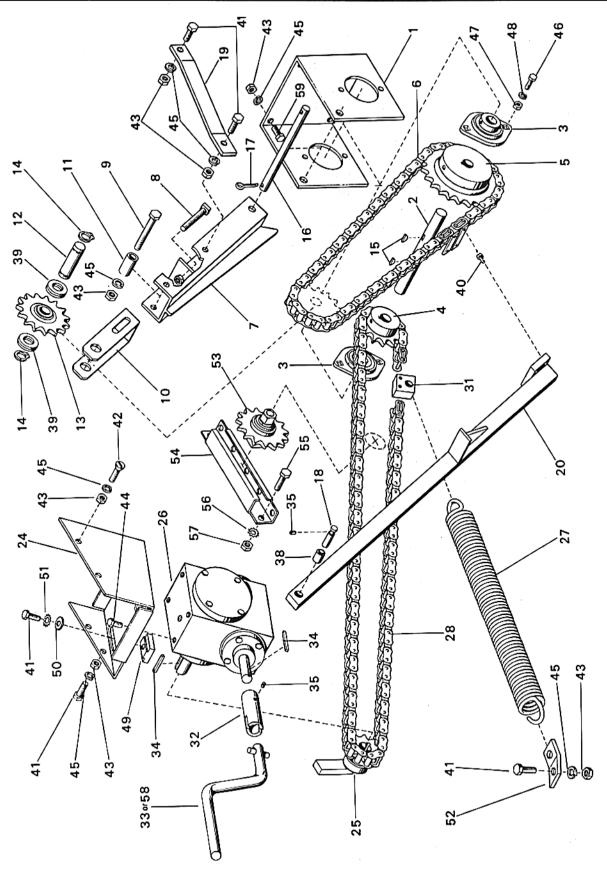
	Size of Braising Pan			_	
Item	23 Gallon Part No.	30 Gallon Part No.	40 Gallon Part No.	Description	Qty. Per Unit
1	40033-11	40033-11	40033-11	Electric Heating Element 240/208 Volt	3 or 4
2	40033-12	40033-12	40033-12	Electric Heating Element-480/440 Volt	3 or 4
3	6688	6688	6688	Element Clamp	51 or 68
4	10-24-001	10-24-001	10-24-001	Flanged Hex Locknut, 1/8" - 20	20 or 245
5	10-24-003	10-24-003	10-24-003	Flanged Hex Locknut, 5/16" - 18	45 or 60
6	40090	40090	40329	Element Insulation	1
7	40091	40091	40337	Wire Channel	1
8	40092	40092	40314	Element Cover	1
9	40205	40205	40205	3/4" Flexible Conduit	1
10	40206	40206	40206	90° Connector (For 40205)	1
11	40207	40207	40207	Straight Connector (For 40205	1
12	40203	40203	40203	Wire Clamp	3
13	5726	5726	5726	Terminal Block	1
14	40115	40115	40115	Magnetic Contactor	2 or 3
15	15-03-003	15-03-003	15-03-003	Ground Lug - 70 Amp.	1
16	15-03-001	15-03-001	15-03-001	Ground Lug - 35 Amp.	1
17	40032-001	40032-001	40032-002	Interlock Switch Actuator Assembly	1
18	97487	97487	40430	Interlock Switch (Microswitch)	1
19	_	_	10-42-014	Cotter Pin (For 40032-002)	1

5. Thermostat Temperatue Control Parts (See Item C.11 of this manual

			Quantity
			Per
ltem	Part No.	Description	Unit
1	40178	Thermostat Box	1
2	40182	Thermostat Box Mounting Bracket	1
3	40111-001	Thermostat Box Cover	1
4	40068-001	Thermostat Conduit Assembly (Flexible)	1
5	40041-001	Thermostat Conduit Clamp Assembly	1
6	40076	3/8" Straight Connector for Flexible Conduit	
		(Gas Heat Units)	1
7	40228	3/8", 90° Connector for Flexible Conduit	
		(Electric Heat Units)	1
8	6683	Thermostat Capillay Clamp	1
9	40259-001	Timer Box	1
10	81579	On-Off Switch	1
11	80108	Manual Times	1
12	10071	Thermostat	1
13	40192	Thermostat Knob	1
14	10079	Thermostat Bulb Innsulation	1
15	10039	Thermostat Bulb Clamp	1

6. Solid State Temperature Control Parts (Option)

			Quantity
			Per
ltem	Part No.	Description	Unit
1	40417-001	Control Box Assembly (Solid State)	1
		(See item 11 below)	
2	40130	Control Box Back (Solid State)	1
3	81809	Hinge (Solid State Control Box)	2
4	81579	Switch (On/Off)	· 1
5	10123	Solid State Controller	1
6	10124	Remote Set Pot (Purchase as a set with Item #6)	
7	10125	Thermistor Probe	1
8	8230	Baynot Fitting (for mounting thermistor probe)	1
9	10142	Solid State Control Dial	1
10	10070-11	Control Knob (Solid State)	1
11	40417-002	Control Box Assembly (Unit with Solid State	1
		Temperature Control and Electric Timer Option).	
12	40227	Cover Plate (On Braising Pan)	1
13	2100500	Holding Clip	4



7. Manual Lift Parts (See Figure 7)

CAUTION: Do not disassemble any parts of the lift system unless the braising pan is supported with two, 26 inch long wood blocks and one 36" long wood block (48" long for 40 gallon models) (2" x 4" wide) as shown

on Figure 4. See Items D.4.b (1) and D.4.b (2) for detail procedure.

Item	Part No.	Description	Qty. Per Unit
1	2102300	Support Bracket - Manual Lift	1
		(Includes Motor And Capacitor)	
2	40061	Driver Sprocket Shaft	1
3	40063	Lower Bearing	2
4	40134	Reducer Sprocket - Driven (13 Teeth)	1
5	40060	Left Sprocket - Driver (24 Teeth)	1
6	40065-001	Roller Chain Assembly (62 Links)	1
7	2102200	Support Weldment	1
8	10-32-002	Square Head Set Screw, 2" Long	1
9	10-01-190	Hex Head Machine Screw, 23/4" Long	1
10	40432-001	Take Up Assembly	1
11	40053	Take Up Spacer	1
12	40049	Driven Sprocket Shaft	1
13	40046	Lift Sprocket - Driven (15 Teeht)	1
14	40050	Take-up Retaining Ring	2
15	10-50-010	Woodruff Key # 606	2
16	2102500	Support Bar	1
17	10-42-044	Cotter Pin	2
18	40045	Pan Lift Pin	2
19	40058	Tie Bar	1
20	40210-001	Lift Asist Bar Assembly	2
24	40074	Reducer Support Bracket	1
25	2101900	Sprocket Stop Assembly	1
26	40075	Gear Reducer	1
27	40064	Extension Spring	1
28	2100100	Roller Chain Assembly	1
31	40177	Spring Connector	1
32	40141	Reducer Coupling (Handle)	1
33	40140-001	Crank Handle Assembly (Models G-40 or E-40 only)	1
34	10-48-005	Square Key (40141) & (40059)	•
35	10-30-041	1/4" -20 x 1/4" Lg., Set Scrw (400945 & 40141)	2
38	40279	Bearing Lift Assist Bar	1
39	40051	Driven Sprocket Spacer	4
40	10-11-047	#24 x 3/6" Lg. Cap Screw (40070)	4
41	10-01-178	%-16 Hex Hd. Machine Screw, %" Lg.	5
42	10-07-178	%-16 Flat Hd. Machine Screw, 76" Lg.	2
43	10-21-030	%-16 Hex Nut	11
44	10-02-175	%-16 Stainless Stl. Hex Hd. Machine Screw, ½" Lg.	4
45	10-26-048	3/6" Lockwasher	11
46	10-01-081	1/4-20 Hex Hd. Machine Screw, 3/4" Lg.	4
47	10-21-026	1/4-20 Hex Nut	4
48	10-26-046	1/4" Lockwasher	4
49	2100402	Strike, Gear Reducer Stop	1
50	10-26-008	%" Steel Flat Washer	2
51	10-26-049	1/2" Steel External Shakeproof Washer	1
52	2102600	Retainer, Extension Spring	
53	2100200	Chain Tightener Sprocket	1
24	2100200	Download from Www.Somanuals.com. All Manuals Search And Download.	· I

54	2100300	Chain Tightener Bracket	1
55	10-02-127	5/16"-18 Stainless Steel Hex. Hd.	1
		Machine Screw, 7/8"	
56	10-27-047	5/16" −18 External Star Lock Washer	2
57	10-22-028	5/16" External Star Lock Washer	2
58	2102800	5/16" Crank Handle Assembly (Model G or E -23 o 30)	1
59	10-01-177	3/8"-16 Hex. Hd. Machine Screw 83/4" Lg.	4

8. Electric Timer Parts (Optional)

ltem	Part No.	Description	Unit
1	40417-003	Box Assembly (Electric Timer) (See item 7 bellow)	1
2	40181	Box Back (Electric Timer)	1
3	40181	Box Back (Electric Timer)	1
4	81669-10	Knob - Timer	1
5	20631	Push Button Switch	1
6	80009	Buzzer, Electric	1
7	40417-002	Box Assembly (Unit with Electric Timer and Solid	1
		State temperature Control Options)	

9. Manual Lift Parts (See Figure 8)

CAUTION: Do not disassemble any parts of the lift system unless the braising pan is supported with two, 26 inch long wood blocks and one 36" long wood block (48" long for 40 gallon models) (2" x 4" wide) as shown on Figure 4. See Items D.4.b (1) and D.4.b (2) for detail procedure.

Item	Part No.	Description	Qty. Per Unit
1	40078-001	Power Lift Actuator Assembly (Includes Motor And Capacitor)	1
2	40078-11	Power Lift Actuator Motor	1
3	40078-12	Power Lift Actuator Capacitor	1
4	40279	Bearing (Bronze)	1
5	40045	Pan Lift Pin	1
6	40086	Actuator Pin	1
7	40087	Actuator Retaining Ring	1
8	40100-001	Actuator Mounting Assembly	1
9	40083-001	Actuator Support Assembly	1
10	40114	Power Lift Switch (UP/DN)	1
11	60852	Microswitch (lid)	1
12	40193	Lid Switch Bracket	1
13	40195	Lid Switch Sleeve (Fiberglass)	1
14	40196	Lid Switch Enclosure	1
15	10-30-041	1/4-20 x 1/4" LongSet Screw (40045)	1
16	2104200	Capacitor Box Assembly	1
18	40438	Capacitor Hold Down Strap	2
19	40439	Capacitor Box Cover	· 1

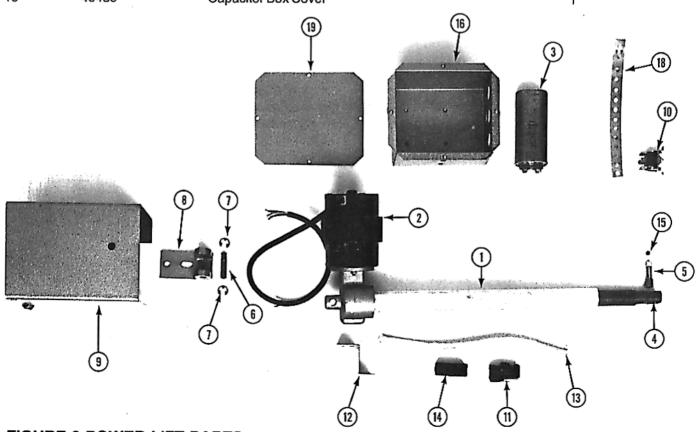
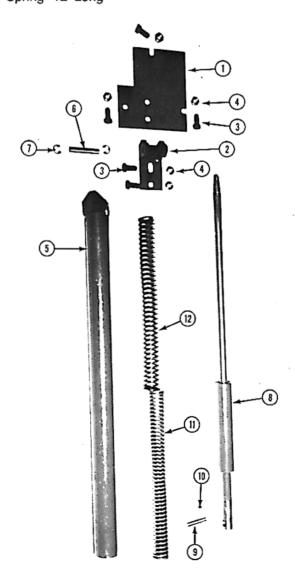


FIGURE 8 POWER LIFT PARTS
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10 Auxilliary Left System Parts (See Figure 9)

(This system not provided on 23 & 30 Gallon Models)

Item	Part No.	Description	Qty. Per Unit
1	40363	Assist Mounting Plate	1
2	40100-001	Actuator Mounting Assembly	1
3	10-01-178	3⁄e-16 x 7∕e" Long Hex Hd. Machine Screw	5
4	10-21-030	3/8-16 Hex Nut	5
5	40364-001	Assist Tube Assembly	1
6	40086	Actuator Pin	1
7	40087	Actuator Retaining Ring	2
8	40367-001	Assist Lever Assembly	1
9	40045	Pan Lift Pin	1
10	10-30-041	1/4-20 x 1/4" Lg., Socket Head Set Screw	1
11	40368-11	Spring - 10" Long	1
12	40368-12	Spring - 12" Long	1



11. Spray Hose With Faucet Parts (Option)

Item	Part No.	Description	Qty. Per Unit
1	40203-001	Spray Hose Assy. with Faucet	. 1
2	11-87-004	Spray Head With Flexible Stainless Steel Hose 72" Long	2
3	11-87-003	Hot/Cold Mixing Faucet	1 .
4	40356	Mounting Bracket-Faucet-23/30 Gallon, Closed Frame	1
5	40378	Mounting Bracket-Faucet-23/30 Gallon Open Frame	1
6	40009	Heat Shield (Used as storage pan for spray hose) -23/30 Gallon, Closed Frame, Electric Heat	1
7	40402	Mounting Bracket-Faucet-40 Gallon, Closed Frame	1
8	40378	Mounting Bracket-Faucet-40 Gallon, Open Frame	1
9	40410	Heat Shield (Used as storage pan for spray hose) -40 Gallon, Closed Frame, Electric Heat	1

12. Articulated Pan Holder Parts (Option)

Item	Part No.	Description	Qty. Per Unit
1	40212-001	Top Pivot Weldment	1
2	40215-001	Pan Holding Frame Weldment	1
3	40219-001	Frame Fulcrum Bracket Weldment –23/30 Gallon Units	1
4	40420-001	Frame Fulcrum Bracket Weldment -40 Gallon Units	1
5	40223	Fulcrum Link	1
6	40224	Pivot Spacer	4
7	40287	Gasket	1 .
8	10-22-070	3/e–16 Elastic Hex Nut	4
9	10-22-124	#10-24 Acorn Nut	4

13. Other Optional Parts

Item	Part No.	Description	Qty. Per Unit
1	40414-001	Caster Leg Assembly	4
2	4556	Caster, Locking	4
3	40427-001	Steaming Rack Assembly	3 or 4
4	107791	Transformer 50 VA (Electric Heat Units	1
		Without Power Left)	
5	80314	Transformer 350 VA (Electric Heat	1
		Unit With Power Left)	
6	40252	Terminal Block for Neutral Wire	1
7	11-87-002	Single Faucet With 12" Swing Spout	1
8	11-87-003	Double Faucet With 12" Swing Spout	1
9	36760	Mounting Bracket (For Faucet With Swing Spout	1
10	10-22-066	1/4-20, Elastic Hex Nut (For 36760)	1

FIG. 10 WIRING DIAGRAM - GAS HEAT UNITS (THERMOSTATIC TEMPERATURE CONTROL)

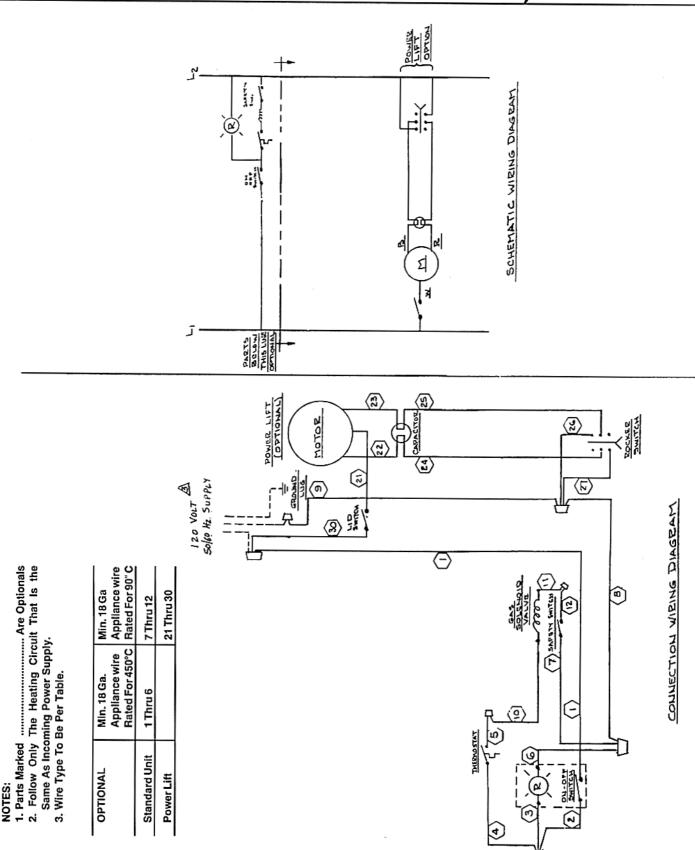
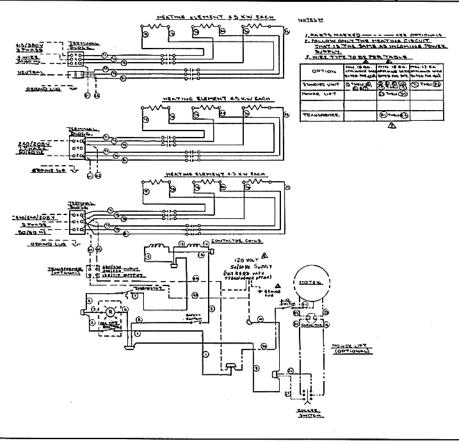


FIG. 11 WIRING DIAGRAM – ELECTRIC HEAT UNITS (THERMOSTATIC TEMPERATURE CONTROL)



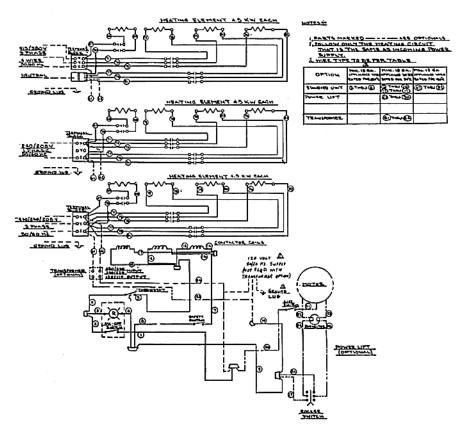
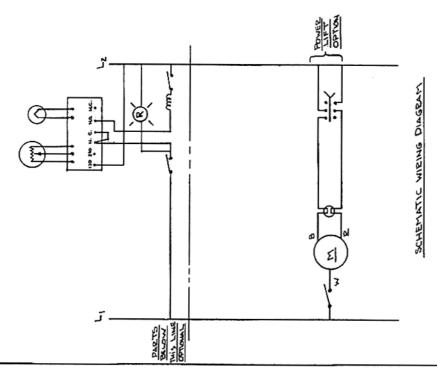
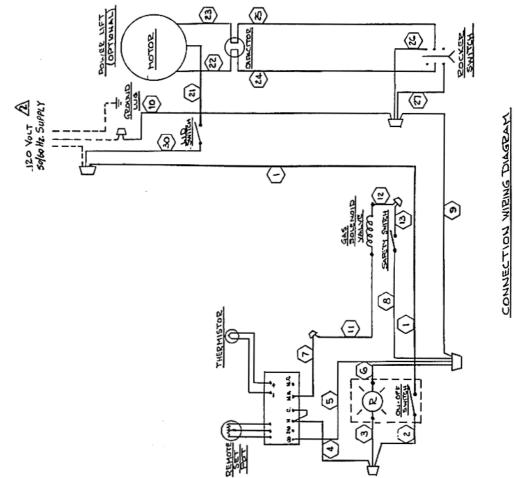


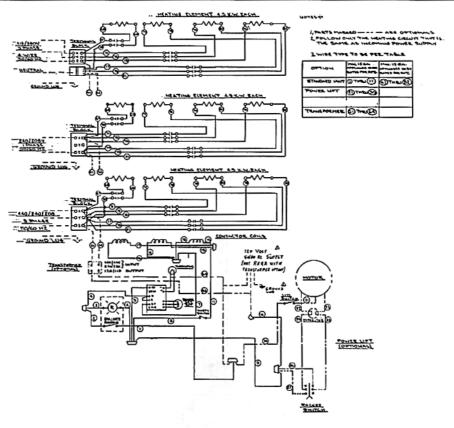
FIG. 12 WIRING DIAGRAM – GAS HEAT UNITS (SOLID STATE TEMPERATURE CONTROL)





ALL WIGES TO BE MINIMUM 18 GA

FIG. 13 WIRING DIAGRAM – ELECTRIC HEAT UNITS (SOLID STATE TEMPERATURE CONTROL)



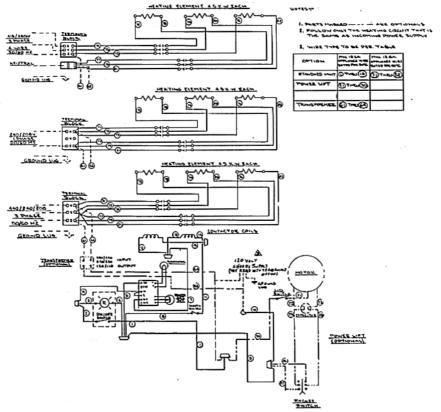


FIG. 14 WIRING DIAGRAM - GAS - HEAT UNITS ELECTRIC IGNITION (THERMOSTATIC TEMPERATURE CONTROL)

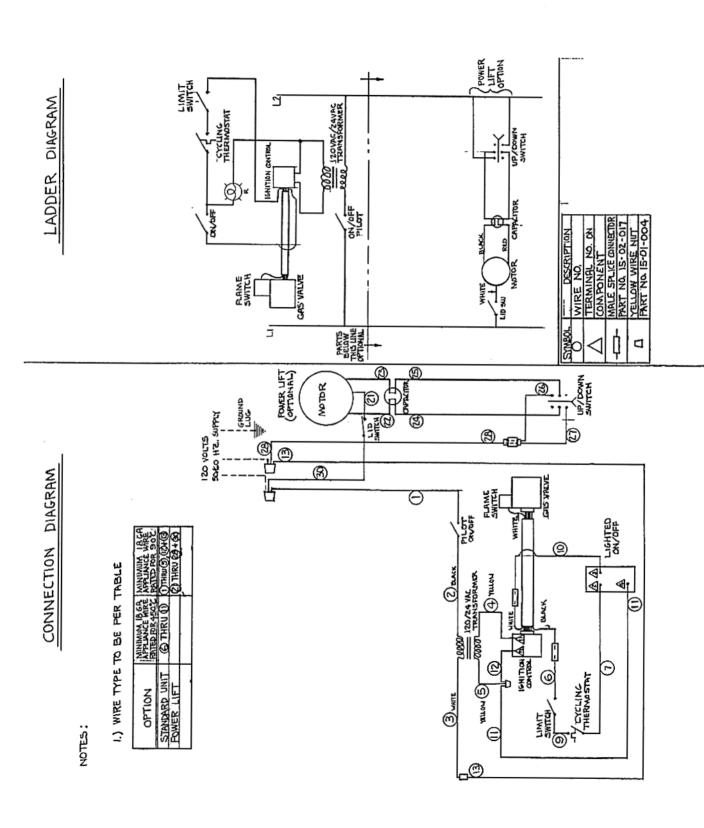
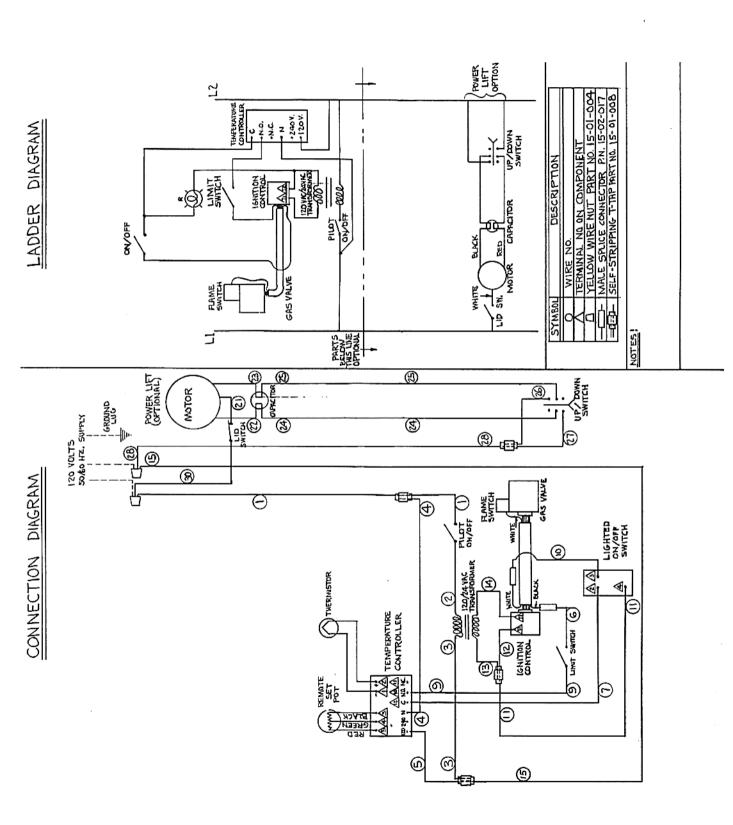


FIG. 15 WIRING DIAGRAM – GAS HEAT ELECTRIC IGNITION (SOLID STATE TEMPERATURE CONTROL)



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