

# COMMERCIAL HEAVY DUTY GAS FRYER



## MODEL NOS.

FMS-W/STAINLESS STEEL TANK  
FMP-W/MILD STEEL TANK

|           |        |        |          |          |
|-----------|--------|--------|----------|----------|
| FMP 403HP | FMP 40 | FMP 65 | FMP 40HP | FMP 65HP |
| FMS 403HP | FMS 40 | FMS 65 | FMS 40HP | FMS 65HP |

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- GAS DATA
- GENERAL SPECIFICATIONS
- UNPACKING INSPECTION
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### STANDARD FEATURES:

- Quality construction
- Heavy duty 18 gauge Stainless Steel Unibody Construction for long life.
- Choice of 16 gauge Stainless or 14 gauge Mild Steel Tank Heliarc Welded for leakproof operation.
- 16 gauge Stainless Steel Heat Tube exchangers for maximum heat transfer.
- Heavy duty cast iron burners.
- 1 ¼" ball type drain valve slanted for fast draining of fats.
- Designed for maximum accessibility and service.
- Large foaming area.
- Automatic temperature control.
- Precision Thermostat for saturation free frying.
- Superfast heat up and recovery seals and cooks food to perfection.
- Design certified - CSA Listed.
- NSF Listed
- MEA Listed

### FOR YOUR SAFETY

**DO NOT STORE OR USE GASOLINE OR OTHER FLAMMABLE VAPORS  
AND 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.



## CECILWARE CORPORATION

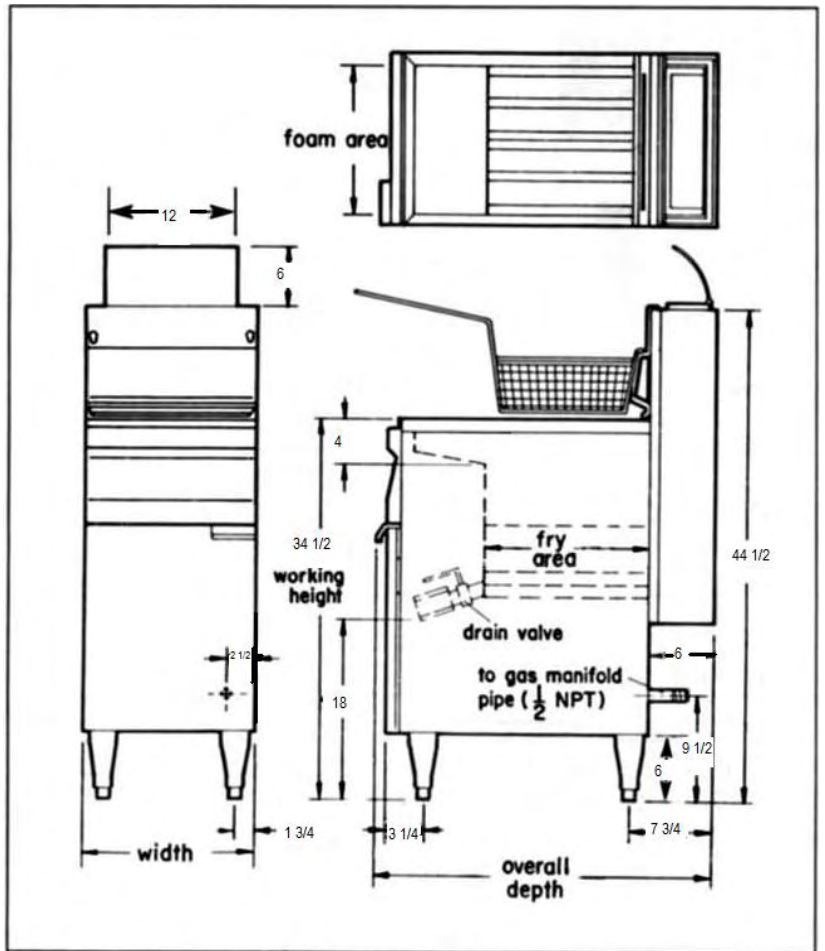
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**SAFETY PRECAUTIONS**

FOR YOUR SAFETY, THE FOLLOWING PRECAUTIONS SHOULD BE FOLLOWED AND ENFORCED.

1. Instructions must be posted in a prominent location and all safety precautions taken in the event the user smells gas. Obtain this information from your local gas supplier.
  - IF YOU SMELL GAS:**
    1. OPEN WINDOWS
    2. DON'T TOUCH ELECTRICAL SWITCHES
    3. EXTINGUISH ANY OPEN FLAMES
    4. IMMEDIATELY CALL YOUR GAS SUPPLIER
2. LIGHTING – Follow the instructions on page 4 and on label attached to inside of fryer door.
3. Do not place anything over the flue opening.
4. Do not place combustible or non-combustible material in the vicinity of the fryer as this could cause fires or obstruct air to the main burners.
5. This installation must conform to local codes, or in the absence of local codes, with the *National Fuel Gas Code*, ANSI Z223.1/NFPA 54, or the *Natural Gas and Propane Installation Code*, CSA B149.1, as applicable, including:
  - a. The appliance and its individual shutoff valve must be disconnected from the gas supply piping system during any testing of that system at test pressures in excess of ½ psi (3.5 kPa).
  - b. 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 or less than ½ psi (3.5 kPa).
6. Provide adequate air supply and ventilation.
7. Provide adequate clearance for air openings into the combustion chamber.
8. Provide clearance for servicing and proper operation. Minimum clearance from combustible construction is 6 inches from back and 6 inches from side.
9. Fryer must be disconnected from gas supply during any pressure testing of pipelines in excess of ½ psig, and isolated (by turning off manual gas shut-off valve) during any testing equal to or less than ½ psig.
10. Retain this manual for future reference.



GENERAL PROPORTIONS, (FM 40 SHOWN)

# FRYER SPECIFICATIONS

| GENERAL SPECIFICATIONS |                  |                  |                   |                  |                   |
|------------------------|------------------|------------------|-------------------|------------------|-------------------|
| PLAIN STEEL TANK       | FMP 403 HP-CE    | FMP 40-CE        | FMP 65-CE         | FMP 40 HP-CE     | FMP 65 HP-CE      |
| STAINLESS STEEL        | FMS 403 HP-CE    | FMS 40-CE        | FMS 65-CE         | FMS 40 HP-CE     | FMS 65 HP-CE      |
| Width                  | 15 ½ "           | 15 ½ "           | 20"               | 15 ½ "           | 15 ½ "            |
| Overall Depth          | 30 ⅞ "           | 30 ⅞ "           | 36 ⅞ "            | 30 ⅞ "           | 37 ⅞ "            |
| Working Height         | 34 ½ "           | 34 ½ "           | 34 ½ "            | 34 ½ "           | 34 ½ "            |
| Overall Height         | 46 ¾ "           | 46 ¾ "           | 46 ¾ "            | 46 ¾ "           | 46 ¾ "            |
| Fat Capacity (min.)    | 49 lbs.          | 43 lbs.          | 79 lbs.           | 56 lbs.          | 95 lbs.           |
| Foam Area              | 13 ¾" x 22"      | 13 ¾" x 22"      | 18 ¼" x 28"       | 13 ¾" x 22"      | 18 ¼" x 28"       |
| Fry Area               | 13 ¼" x 15"      | 13 ¼" x 15"      | 18 ¼" x 19"       | 13 ¼" x 15"      | 18 ¼" x 19"       |
| Basket Size            | 12 ⅞" x 6 ½" x 5 | 12 ⅞" x 6 ½" x 5 | 17" x 8 ½" x 5 ¾" | 12 ⅞" x 6 ½" x 5 | 17" x 8 ½" x 5 ¾" |
| Shipping Weight        | 145 lbs.         | 155 lbs.         | 205 lbs.          | 165 lbs.         | 215 lbs.          |
| Shipping Cube          | 14 cu. ft.       | 14 cu. ft.       | 21 cu. ft.        | 14 cu. ft.       | 21 cu. ft.        |
| Gas Connection         | ½" IPS           | ½" IPS           | ½" IPS            | ½" IPS           | ½" IPS            |

| GAS SPECIFICATIONS |         |         |         |         |         |
|--------------------|---------|---------|---------|---------|---------|
| BTU/HR. INPUT      | 110,000 | 115,000 | 135,000 | 135,000 | 160,000 |
| NATURAL GAS        | 4.0" WC | 3.5" WC | 3.5" WC | 3.5" WC | 3.5" WC |
| PROPANE (LP) GAS   | 10" WC  | 10" WC  | 10" WC  | 10" WC  | 10" WC  |

*This fryer is intended for other than household use. Design certified for use on combustible floor. Clearance for combustible construction is 6 inches from side, 6 inches from back.*

## SECTION A – INSTALLATION AND OPERATING INSTRUCTIONS

A1 – **Unpacking** – With the container upright cut the plastic straps around shipping container and lift off top, exposing Fryer. Check Fryer for any visible change due to exceptionally rough handling during shipping. Report damage to the delivering Freight Carrier within 15 days of delivery.

A2 – **Accessories shipped in the vessel include:**

- 1 – Basket Hanger
- 2 – Baskets
- 1 – Drain Pipe Extension
- 4 – 6 inch Adjustable Legs

**Accessories available as optional:**

- 1 – Tank Cover
- 1 – Large Basket
- 4 – Swivel Casters (2w/Locks)
- 1 – Quick Disconnect Connector, 48" w/restraint

A3 - **Mounting of Legs or Casters** – Carefully tip Fryer back and screw legs or (optional) casters into the threaded base of Fryer. When installing casters make sure the swivel lock casters are mounted towards the front of the fryer. A high strength Restrainer and Quick Disconnect Gas Connector must be installed when casters are used. Avoid putting any strain on rear legs or casters when tipping fryer back to an upright position.

A4 – **Pre-Installation Instructions** – The installation of your Fryer must be made by a licensed plumber and the installation must conform to State and Local codes, the National Fuel Gas Code, ANSI Z223.1 • NFPA54, and the Natural Gas and Propane Installation Code, CSA-B149.1, as applicable.

A5 – **Air Supply and Ventilation** – Adequate ventilation and air supply must be provided in order for the Fryer to operate properly and efficiently. The area in front of and above the Fryer must be clear to avoid any obstruction of flow of combustion and ventilation air. **Do not**, under any circumstances, connect the Fryer flue directly to a building exhaust system or place the flue outlet directly into the plenum of the exhaust hood as it will adversely affect the gas combustion of the Fryer.

The vent system should be of such design as to allow easy access for cleaning and degreasing on a regular basis in order to prevent fires. An automatic fire extinguishing system should be an integral part of the vent design. Since the temperature of the flue gases emanating from the Fryer flue can reach 1200° F, temperature sensing devices of the automatic fire extinguishing system must be sized accordingly to prevent premature turn-on. The minimum vertical distance from the top of the Fryer flue to vent system filters should be 18 inches or more.

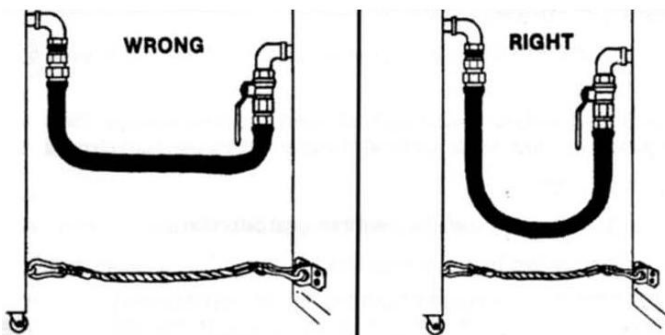
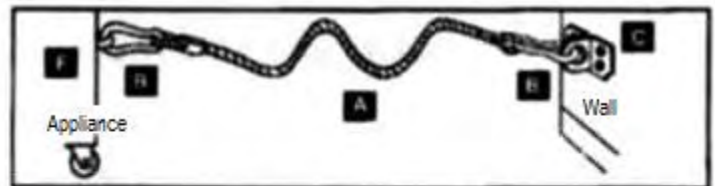
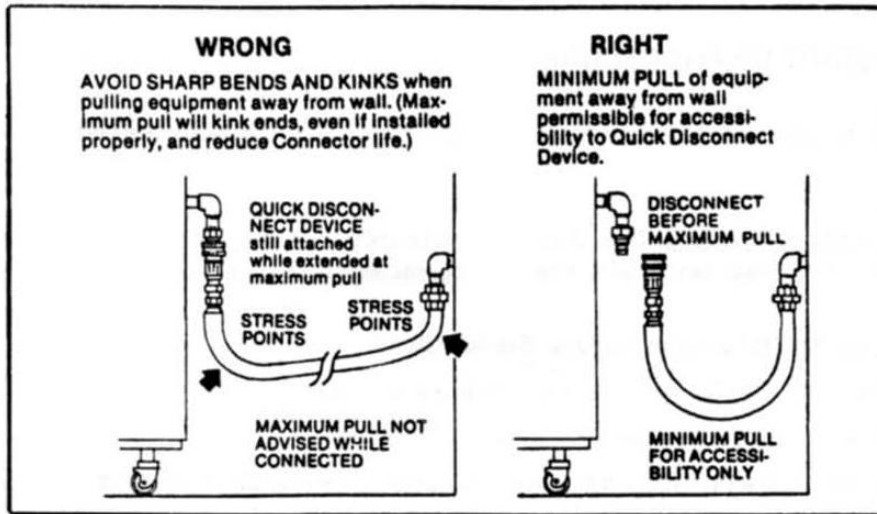
A6 – **Clearances** – Your Fryer is design certified for use on combustible floors. The minimum clearances for combustible and non-combustible construction is as follows: 6 inches from SIDE and 6 inches from BACK. Fryer must be installed with 6 inches high legs or casters (optional). At least 16 inches clearance must be provided between the frying surface of the Fryer and the surface flames from any adjacent cooking equipment.

A7 – **Gas Connection** – Before connecting Fryer to gas line, check the rating label on inside of door panel to make sure that the gas type called for on label coincides with the type of gas available on site. A ½ inch NPT gas pipe connection is provided at the rear of fryer. An accessible manual shut-off valve must be installed in the gas supply line ahead of the Fryer for future service. The supply pipe must be sized to accommodate all the gas fired equipment that may be connected to the gas supply. Check with your local Gas Company as to proper pipe size. Only pipe sealant resistant to action of L.P. gas should be used on pipe joints. Before attempting to light Fryer, check joints for tightness using a soap and water solution. Do not use an open flame.

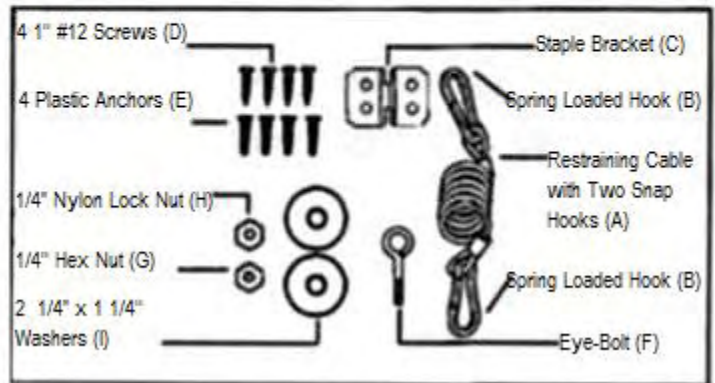
A8 – **Flexible Gas Connectors and Restraints** (See illustration 1) – For Fryers equipped with casters, installation shall be made with a Connector that complies with the Standard for – Connectors for Movable Gas Appliances ANSI Z21.69 • CSA6.16 and a Quick-Disconnect Device compliant with the Standard for Quick-Disconnect Devices for use with Gas Fuel Connector or Quick-Disconnect Device. A high strength Restrainer and proper size Quick-Disconnect Gas Connector conforming to above ANSI and/or CAN/CGA standards should be ordered from Cecilware in conjunction with our NSF approved casters. If disconnection of the restraint is necessary for servicing Fryer, the

# ILLUSTRATION 1

## Installation of Quick Disconnect and High Strength Restrainer.



Set the length of the restraining device so that the connector is not kinked when the restraining device is fully extended.



1. Restraining device should be installed parallel (in line) with the gas appliance connector.
2. Attach the staple bracket (C) to a stud in the wall using the four 1" #12 screws (D) and the plastic anchors (E), if needed.
3. Locate a structural area (frame) on the rear side of the equipment that is in line with the wall attachment. Drill a small hole, 1/4" (per manufacturers' recommendation). Please use caution when drilling hole, so that internal components are not damaged.
4. Slide the hex nut (G) and a washer (I) onto the eye-bolt (F). Slide the eye-bolt through the opening and place a washer (I) and the nylon lock nut (H) onto the eye-bolt on the inside frame of the equipment and tighten down.
5. Attach one of the spring-loaded hooks (B) to the mounted bracket on the wall (Step 2) and the other to the eye-bolt (Steps 3 and 4).  
**Note:** For adjustable restraining devices, the cable is manufactured to be shorter than the length of the gas connector.

Instructions 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 • CSA 6.16, and a Quick-Disconnect Device that complies to the Standard for Quick-Disconnect Devices for use with Gas Fuel, ANSI Z21.41 • CSA 6.9.
- 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.
- 3) The location(s) where the restraining means may be attached to the appliance shall be specified.

# USER INSTRUCTIONS

**IMPORTANT** – DO NOT ATTEMPT TO LIGHT OR OPERATE FRYER WITHOUT THE PROPER LEVEL OF FRYING FAT (OR WATER) IN TANK, AS SERIOUS DAMAGE WILL RESULT. THIS APPLIANCE IS FOR PROFESSIONAL USE BY QUALIFIED PEOPLE ONLY.

## SECTION B – START UP PROCEDURE

B1 – **Getting Ready to Use Fryer** – Make sure that all steps in Section A are complete. Verify that gas is available to Fryer.

B2 – **Filling and Draining of Fryer Tank** – Close Drain Valve (red handle in horizontal position) and fill it initially with water to the oil level line (hot or cold water can be used). When draining tank, allow hot contents to cool to safe handling temperature.

B3 – **Start-up Lighting and Operating Instructions:** (See Illustration 2)

1. Turn red Thermostat Knob D counter-clockwise to its lowest or off position.
2. Partially depress and turn Control Gas Cock Dial A to "OFF" position.
3. Wait five (5) minutes to allow gas which may have accumulated in the main burner compartment to escape.
4. Turn Gas Cock Dial A to "PILOT" position.
5. Depress Gas Cock Dial A and light Pilot C. Hold in depressed position for approximately 30 seconds, or until Pilot remains lit when Dial is released.

**NOTE:** Sufficient time must be allowed for a proper sized flame to heat the pilot thermocouple that holds the safety magnet in a locked-up position. Also, time must be allowed for air to escape from the lines during the first operation.

6. Release Dial and turn to full "ON."

**NOTE:** Steps 7 – 13 help check burner operation, initial thermostat calibration and clean the vessel.

7. To operate main burners, rotate Red Thermostat Knob clockwise to 225° F or just above the boiling point of water.

**IMPORTANT:** DO NOT TURN ON MAIN BURNERS UNLESS FILLING INSTRUCTIONS WERE COMPLETED. NEVER OPERATE FRYER WITHOUT THE PROPER LEVEL OF LIQUID (OIL OR WATER) IN VESSEL OR SERIOUS DAMAGE WILL RESULT AND CONSEQUENTLY VOID THE WARRANTY.

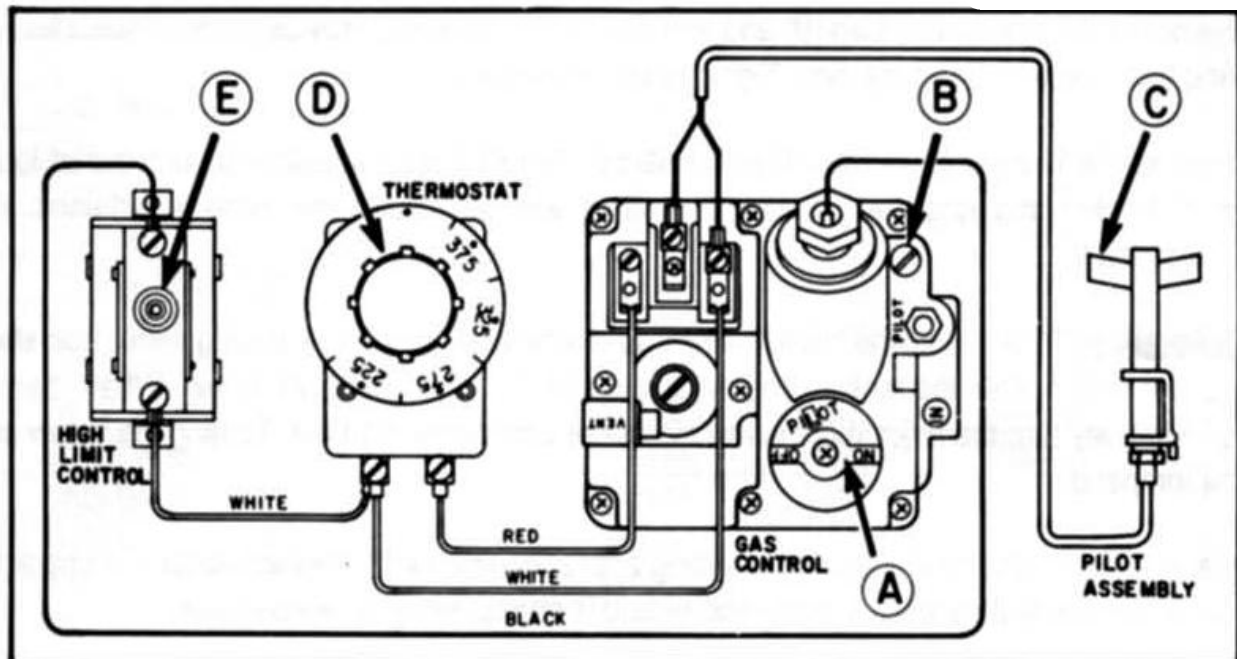
8. When water comes to a boil, turn Red Thermostat Knob back to 200° F. The burners should turn off.
9. If pilot becomes extinguished repeat above procedure.
10. For stand-by periods, turn Gas Cock Dial A to "PILOT" position.
11. To shut Fryer down, partially depress and turn Gas Cock Dial A to "OFF" position and turn Thermostat to its lowest of off position.
12. Drain the vessel by means of the drain valve and Extension Pipe provided. Use caution when draining hot vessel.
13. Remove Extension Pipe. Wipe away any remaining water from the vessel and drain. Close Drain Valve and proceed to "Normal Daily Operation." If the latter is not convenient at this time, apply a protective coating of salt-free shortening to vessel surfaces. (Applies to Cold Rolled Steel Tanks only).

## SECTION C – NORMAL DAILY OPERATION

Follow this procedure after the Fryer has already been started up for the first time or after Fryer has been shut down for maintenance.

- C1 – **Filling the Vessel for Frying** – Close Drain Valve and fill to proper level (Oil Level) with frying fat. If solid shortening is used, be certain shortening is pre-melted; if not, shortening must be packed tightly around the Heat Transfer Tubes before any attempts are made to turn on Fryer. **NEVER** attempt to melt a solid block of shortening by setting it on top of the Heat Tubes. Loosely packed solid shortening will create air voids around Heat Transfer Tubes of Fryer. When fired up, tubes will become red hot and will cause shortening to scorch and burn creating a fire hazard. The safest way to melt solid shortening gradually is by turning burners “ON” for 5 seconds and then “OFF” for 15 seconds. This procedure is to be repeated until the tubes are covered with melted shortening. If any smoke is noticed during this melt cycle procedure, reduce the burner “ON CYCLE.” Replace Crumb Screen over tubes when melted shortening has reached the “OIL LEVEL” line.
- C2 – **Lighting Instructions** – Follow instructions on data label attached to inside Door Panel or as outlined in Section B3 of this manual.
- C3 – **Fryer Operation** – Set the Thermostat Knob to desired frying temperature and allow shortening to pre-heat (75° F to 350° F in 7 minutes). The Burners are thermostatically controlled and will cycle on and off to maintain correct frying temperature. The “Safety Pilot” will remain lit until the gas is shut off.
- C4 – **Special Hi-Limit Safety Control** – Your Fryer is equipped with an over-temperature or Hi-Limit Control that will trip and automatically shut down the Burners should operating temperatures exceed 460°F (due to operating thermostat out of calibration or low oil level in tank). To reset Hi-Limit Control, wait 30 minutes to allow fat to cool down, or add additional cool oil or shortening for faster response, then push the Red Pin E on Hi-Limit Control and relight pilot following steps (1) through (8) in Section B3.
- C5 – **Shut-Down and Draining** – For temporary shut down, turn thermostat to lowest or off position. Then turn Gas Cock Dial to “PILOT” position. To shut Fryer down completely, partially depress and turn Gas Cock Dial to “OFF” position. When draining tank, allow shortening to cool to a safe handling temperature.

ILL.2 GAS CONTROL WITH DX THERMOSTAT & BMVR VALVE



## SECTION D – MAINTENANCE

### D1 - Daily:

- 1) Shut down Fryer as per Section C5. Drain completely (using Drain Pipe Extension) into clean suitable container or filter pump.
- 2) Detach Basket Hanger Bracket, remove screen and wipe clean with cloth.
- 3) Flush out any remaining sediment in tank using some hot oil. Wipe off and clean fry kettle.
- 4) Close Drain Valve and strain shortening back into fryer using several layers of cheese cloth or filter through an oil pump equipped with a Micro-Flo filtering system. Replace Crumb Screen and Basket Hanger Bracket. Detach Drain Nipple. Fryer is ready for next operation.

D2 – Weekly: Repeat daily maintenance procedure to point (4). Close Drain Valve and clean vessel thoroughly with a deep fat fryer cleaning compound and hot water. Drain and rinse thoroughly. Wipe dry with clean cloth. Clean exterior stainless steel surfaces of body with stainless steel cleaner. Do not use abrasive cleaners or steel wool.

D3 – Periodic Checks: Temperature of frying compound. Set Thermostat Knob to 350°F. Place a fryer thermometer in fat (1 ½ inches) and observe reading when burner goes out. Compare the reading. If the temperatures do not coincide within 5°F, have a qualified service person calibrate the thermostat. See Adjustment Procedure, Section E, below. Clean unit and dirt off air shutters and main burners. Periodically, (approximately once a year), burners and pilot should be cleaned to maintain proper ignition and burner flame efficiency.

D4 – Outside Service: Should you require help, contact the factory, your factory representative, or your local service company.



# Replacement Parts List

| ITEM | DESCRIPTION  | FMS 403HP-CE<br>FMP 403HP-CE | FMS 40-CE<br>FMP 40-CE | FMS 65-CE<br>FMP 65-CE | FMS 40HP-CE<br>FMP 40HP-CE | FMS 65HP-CE<br>FMP 65HP-CE |
|------|--|------------------------------|------------------------|------------------------|----------------------------|----------------------------|
| 1    | FRONT FASCIA ASSEMBLY                                    | U558Q                        | U558Q                  | U621Q                  | U558Q                      | U621Q                      |
| 2    | FLAME SHIELD (2 TUBES)                                   | T997A                        | T776A                  | T776A                  | T997A                      | T997A                      |
|      | FLAME SHIELD (1 TUBE)                                    | T998A                        | -                      | T777A                  | T998A                      | T998A                      |
| *3   | FRY TANK   | TA44A                        | T475A                  | T641A                  | TA53A                      | TA55A                      |
| 4    | BURNER MANIFOLD  | F010A                        | F009A                  | F011A                  | F009A                      | F011A                      |
| 5    | THERMOSTAT BRACKET                                       | U572V                        | U572V                  | U572V                  | U572V                      | U572V                      |
| 6    | HI-LIMIT CONTROL   | L346A                        | L346A                  | L346A                  | L346A                      | L346A                      |
| 7    | THERMOSTAT   | L345A                        | L345A                  | L345A                  | L345A                      | L345A                      |
| 8    | THERMOSTAT HARNESS                                       | C946Q                        | C946Q                  | C946Q                  | C946Q                      | C946Q                      |
| 9    | GAS CONTROL VALVE (NAT)                                  | L715A                        | L715A                  | L715A                  | L715A                      | L715A                      |
|      | GAS CONTROL VALVE (LP)                                   | L718A                        | L718A                  | L718A                  | L718A                      | L718A                      |
| 10   | BRASS PLUG   | K044A                        | K044A                  | K044A                  | K044A                      | K044A                      |
| 11   | * ½" GAS INLET PIPE                                      | J053A                        | J053A                  | J065A                  | J063A                      | J065A                      |
| 12   | AIR SHUTTER CLAMP  | U574A                        | U574A                  | U574A                  | U574A                      | U574A                      |
| 13   | AIR BURNER SHUTTER                                       | F167A                        | F167A                  | F167A                  | F167A                      | F167A                      |
| 14   | GAS BURNER   | G363A                        | G224A                  | G224A                  | G363A                      | G363A                      |
| 15   | DRAIN VALVE  | D098A                        | D098A                  | D098A                  | D098A                      | D098A                      |
| 16   | MAGNETIC CATCH   | U008A                        | U008A                  | U008A                  | U008A                      | U008A                      |
| 17   | PILOT ASSEMBLY (NAT)                                     | F261A                        | F261A                  | F261A                  | F261A                      | F261A                      |
|      | PILOT ASSEMBLY (LP), 0.018"                              | F262A                        | F262A                  | F262A                  | F262A                      | F262A                      |
| 18   | THERMOPILE TP-75, 0.010"                                 | F178A                        | F178A                  | F178A                  | F178A                      | F178A                      |
| 19   | DRAIN PIPE   | J062A                        | J062A                  | J062A                  | J062A                      | J062A                      |
| 20   | BAFFLE   | UB71Q                        | UB34Q                  | UB64Q                  | UB77Q                      | UB72Q                      |
| 21   | FLUE BOX ASSEMBLY  | T994Q                        | T894Q                  | T655Q                  | T994Q                      | TA41Q                      |
| 22   | BASKET SUPPORT BRACKET                                   | T536A                        | T536A                  | T644A                  | T536A                      | T644A                      |
| 23   | BASKET HANGER FASTENER                                   | P281A                        | P281A                  | P281A                  | P281A                      | P281A                      |
| 24   | FRY BASKET   | V174A                        | V174A                  | V180A                  | V174A                      | V180A                      |
| 25   | CRUMB SCREEN   | V172A                        | V172A                  | V179A                  | V172A                      | V179A                      |
| 26   | LEGS   | M219A                        | M219A                  | M219A                  | M219A                      | M219A                      |
| 27   | SWIVEL CASTER (OPTIONAL)                                 | M014A                        | M014A                  | M014A                  | M014A                      | M014A                      |
| 28   | SWIVEL CASTER W/LOCK (OPT.)                              | M015A                        | M015A                  | M015A                  | M015A                      | M015A                      |
| 29   | FRY BASKET, LARGE (OPT.)                                 | V175A                        | V175A                  | -                      | V175A                      | -                          |
| 30   | BULB CLAMP   | U567A                        | U567A                  | U567A                  | U567A                      | U567A                      |
| 31   | GAS ORIFICE, NAT (BRASS)                                 | F268A                        | F270A                  | F270A                  | F268A                      | F268A                      |
|      | GAS ORIFICE, LP (BRASS)                                  | F271A                        | F272A                  | F272A                  | F271A                      | F264A                      |
| 32   | FRY TANK COVER   | U589Q                        | U589Q                  | U641Q                  | U589Q                      | U641Q                      |
| 33   | FRONT DOOR ASSEMBLY                                      | T534Q                        | T534Q                  | T657Q                  | T534Q                      | T657Q                      |
| 34   | BURNER SUPPORT ASSEMBLY                                  | T632Q                        | T541Q                  | T646Q                  | TA52Q                      | T645Q                      |
| 35   | THERMOSTAT KNOB  | M099A                        | M099A                  | M099A                  | M099A                      | M099A                      |
| 36   | 5" HI-LIMIT WIRE ASSEMBLY                                | C945Q                        | C945Q                  | C945Q                  | C945Q                      | C945Q                      |
| 37   | ¾" F x ¾" UNION ELBOW                                    | K158A                        | K158A                  | K158A                  | K158A                      | K158A                      |
| 38   | ½" F x ½" UNION ELBOW                                    | K204A                        | K204A                  | K204A                  | K204A                      | K204A                      |
| 39   | DOOR HINGE   | U579A                        | U579A                  | U579A                  | U579A                      | U579A                      |
| 40   | CASEBACK   | T537A                        | T537A                  | T67A                   | T537A                      | TA49A                      |
| 41   | THERMOSTAT LABEL   | NK52A                        | NK52A                  | NK52A                  | NK52A                      | NK52A                      |
| 42   | BANKING STRIP  | U631A                        | U631A                  | U633A                  | U631A                      | U633A                      |
| 43   | GAS CONNECT KIT (48"/122 cm),<br>WITH RESTRAINING DEVICE | UB75A                        | UB75A                  | UB75A                  | UB75A                      | UB75A                      |

\*FMP 403HP (CRS TANK) USE P/N TA43A

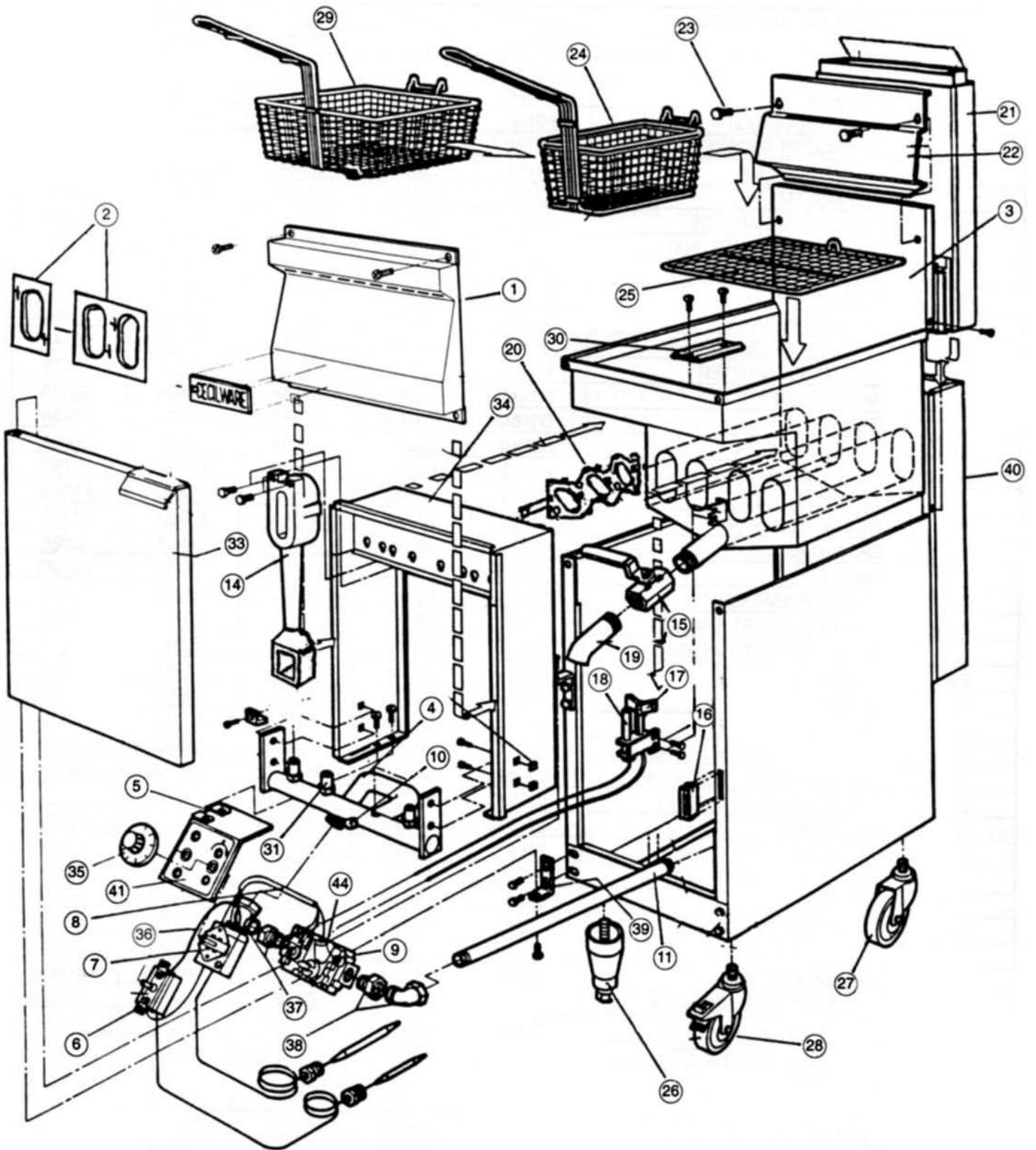
\*FMP 40 USE P/N T531A

\*FMP 65 USE P/N T638A

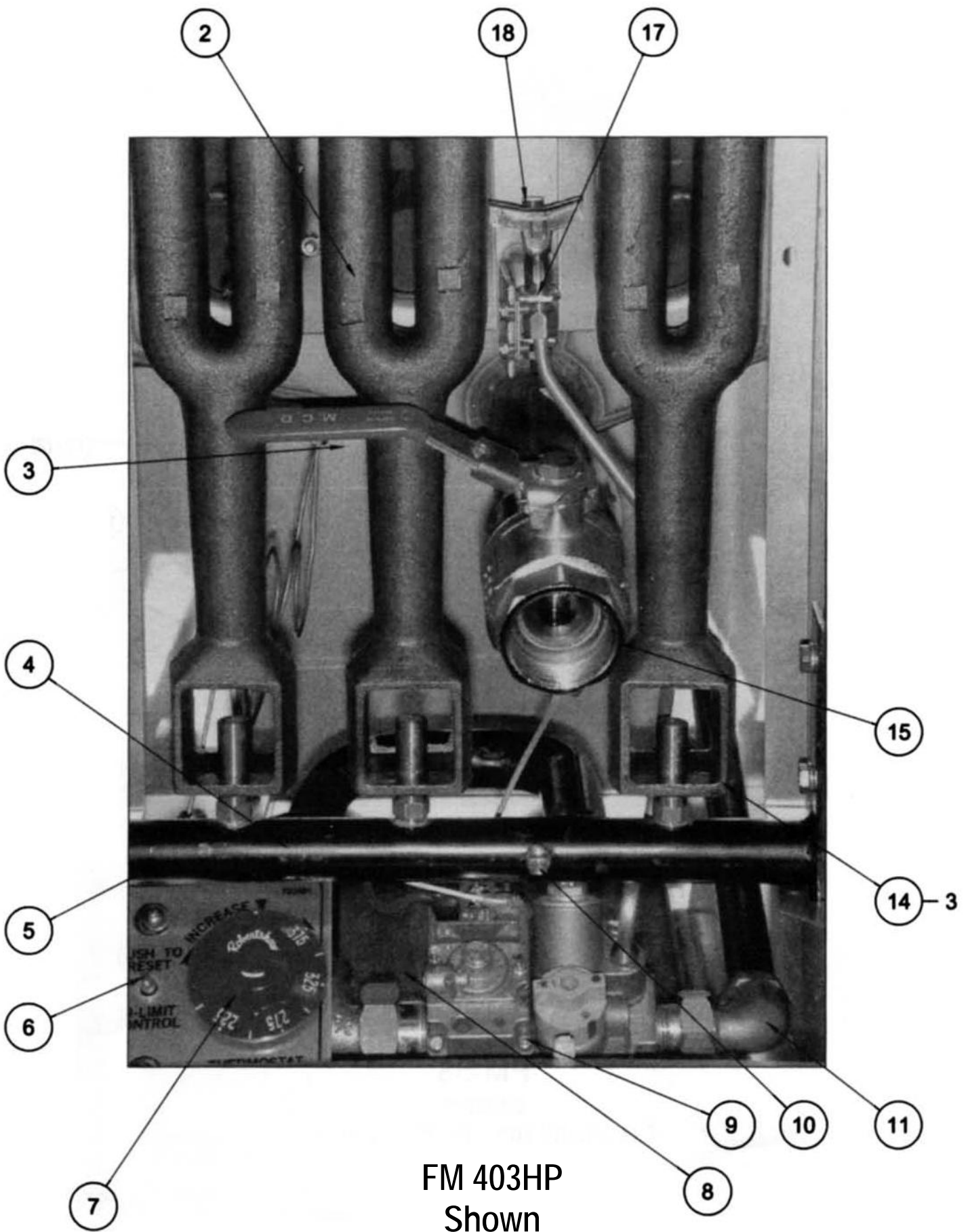
\*FMP 40HP-CE USE P/N TA52A

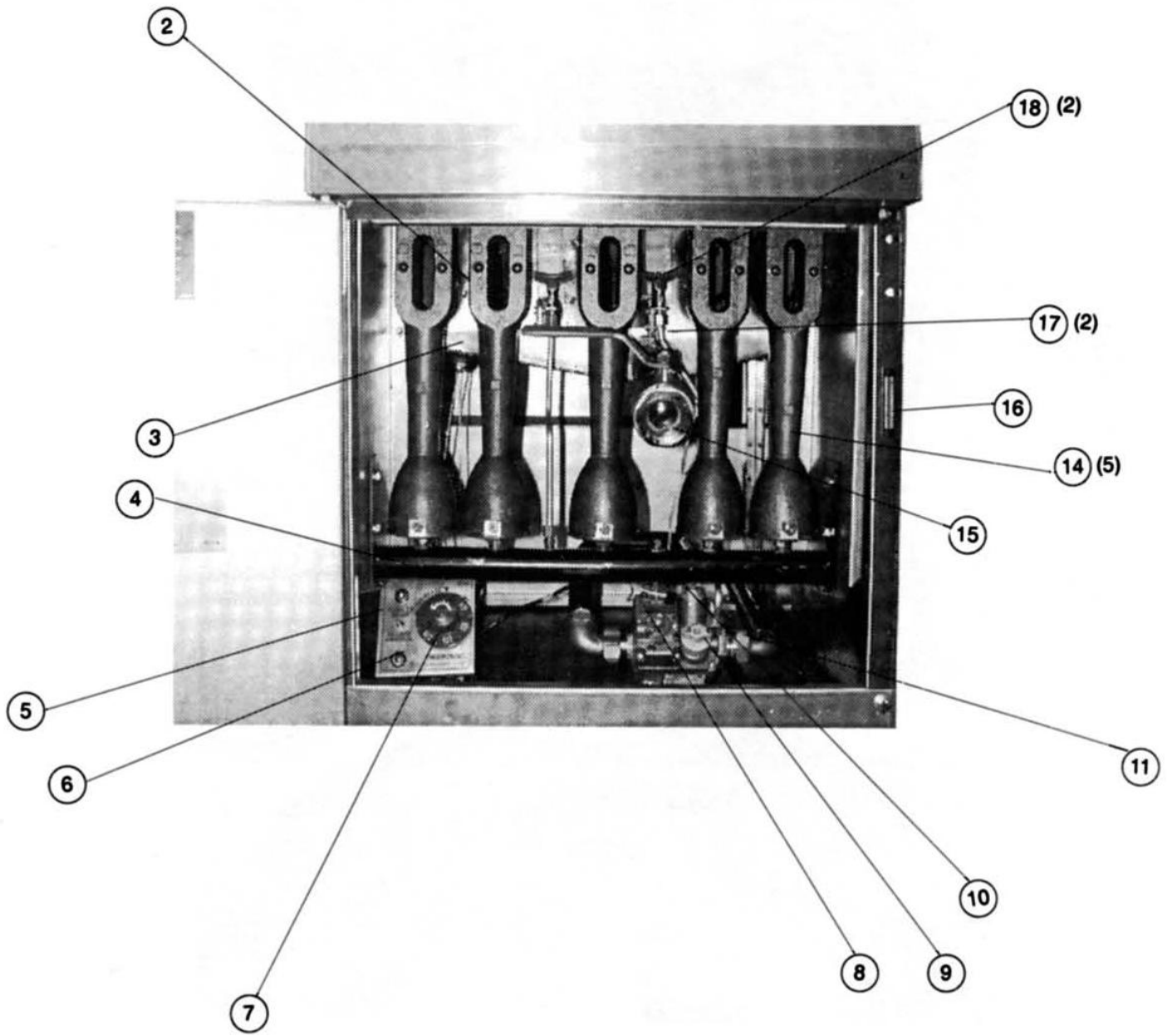
\*FMP 65HP-CE USE P/N TA54A

# Illustration 3

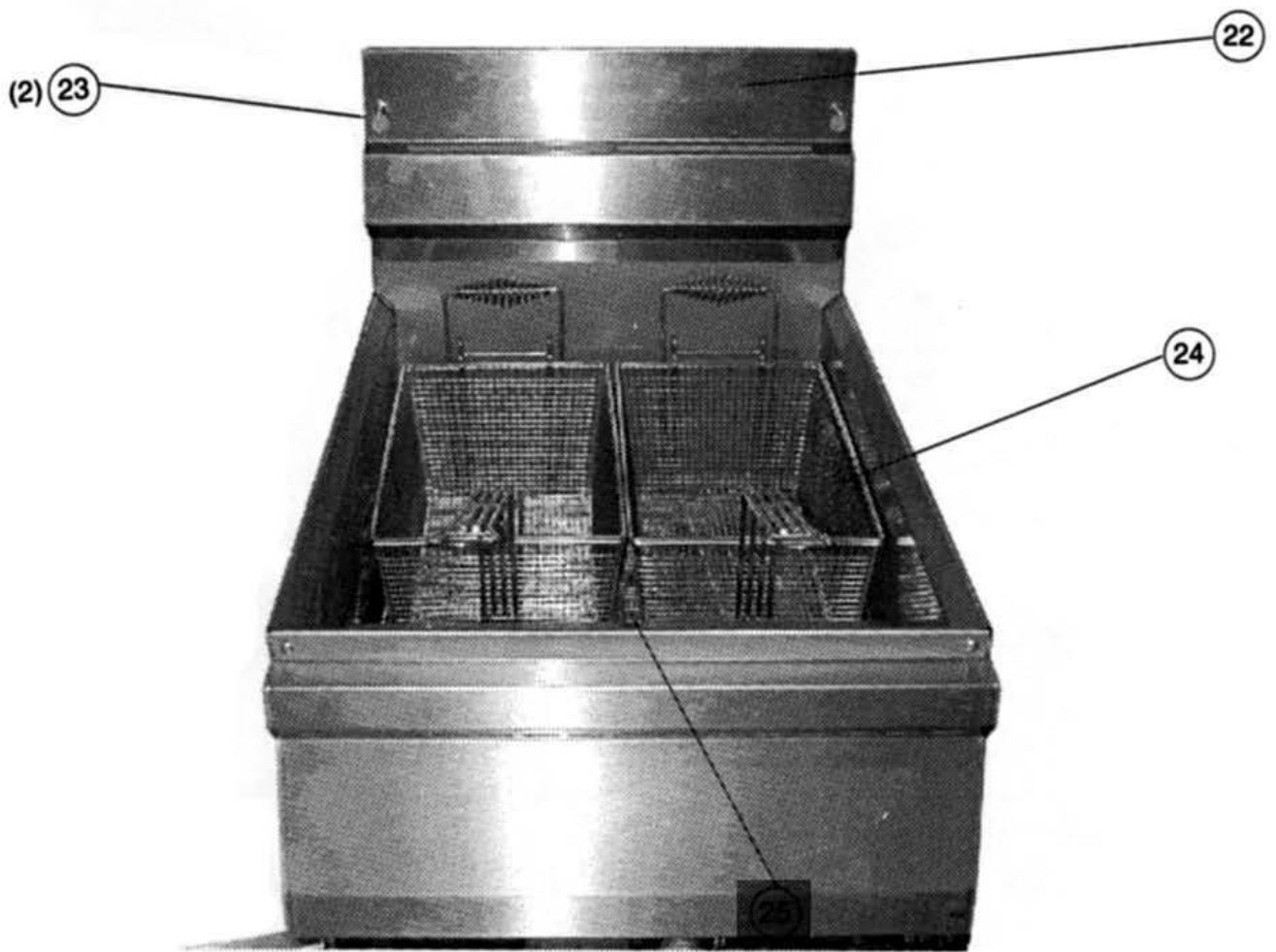


Deep Fat Fryer



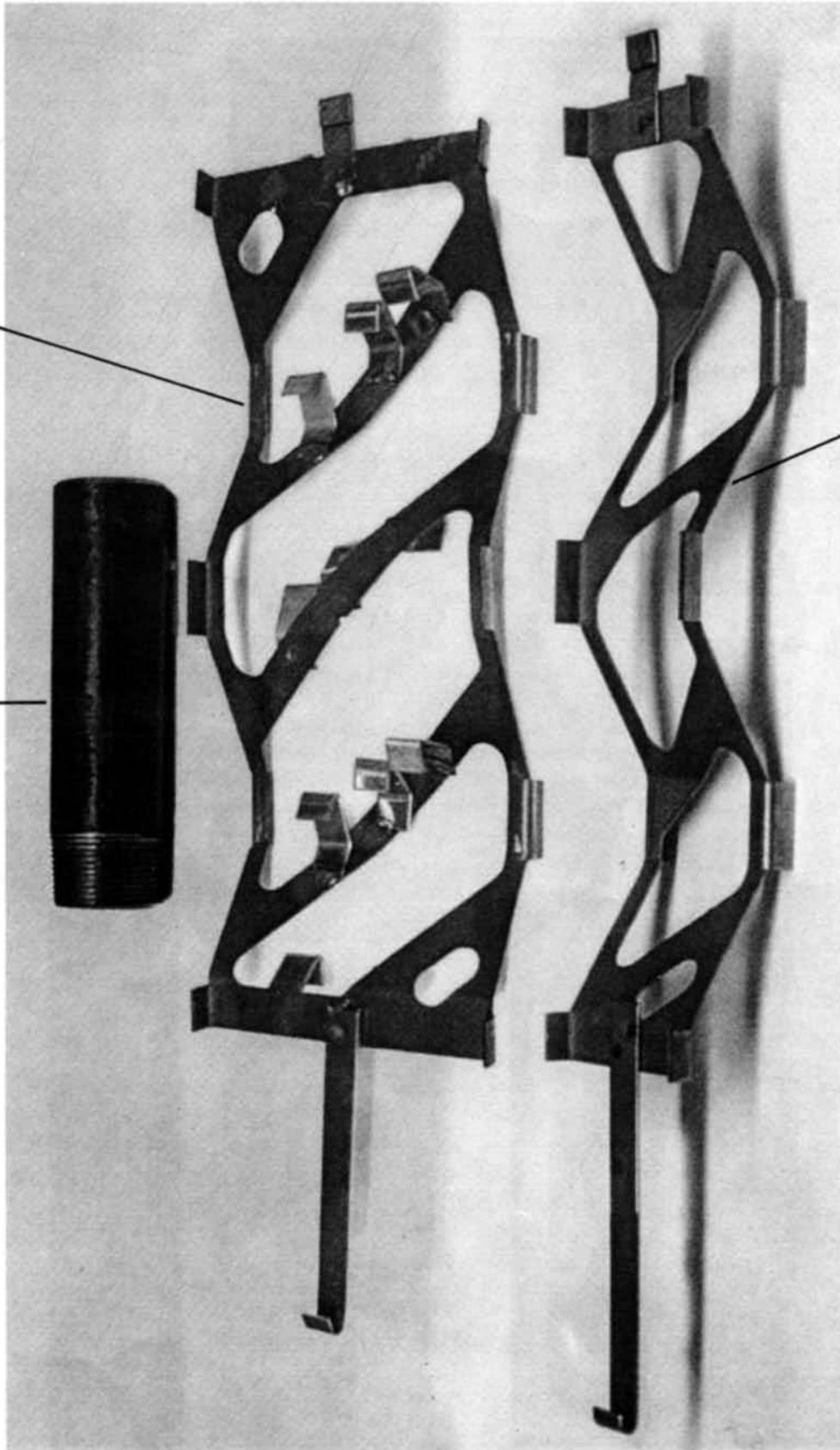


FM 65  
Shown



⑳ UB71Q SHOWN

⑲ DRAIN PIPE



⑳ UB34Q SHOWN

# ACCESSORIES FOR GAS FRYER



②⑦ SWIVEL CASTER (2)



②⑧ LOCKING SWIVEL CASTER (2)



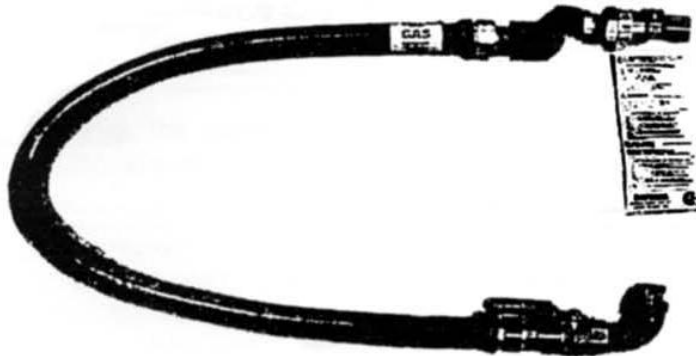
④② BANKING STRIP 28.75" (73.03 cm) LONG P/N U633A



BANKING STRIP 22.81" (57.94 cm) LONG P/N U631A



④③ 48" (122 cm) GAS CONNECTOR KIT  
W/RESTRAINING DEVICE



## **SECTION E – ADJUSTMENTS “FOR QUALIFIED SERVICE PERSONNEL ONLY”**

**NOTE:** Only for qualified service personnel specializing in Hotel and Restaurant Cooking Equipment. Factory approval required prior to any warranty repairs.

E1 – **Safety Pilot:** Remove Pilot Adjustment Cap (B) and turn Adjustment Screw to provide properly sized flame (¾ inch long). Replace Cap and leak test with Soap Solution. Tighten cap is necessary.

E2 – **Burners:** Burners are factory set for maximum performance. Should further adjustment be required, loosen the Slotted Hex Screw on side of Venturi and rotate air shutter until flame with soft blue inner cone is achieved. Remove any lint accumulated, if necessary.

E3 – **Thermostat Calibration:** Turn the Thermostat Knob to 375°F and remove knob without moving thermostat shaft. Place narrow bladed screw driver (¼ inch) into hollow thermostat shaft and engage center adjustment screw. When thermometer reading approached 375°F, slowly turn the adjustment screw clockwise until burners go out. Turning the screw counter-clockwise will increase the temperature.

**NOTE:** One quarter turn will change temperature setting approximately 25°F. Replace knob and check temperature through 3 cycles. Repeat adjustments if necessary until knob setting is correct within a few degrees.

## **TROUBLESHOOTING GUIDE – For Qualified Service Persons Only**

### **E4 – Troubleshooting Guide**

| <b>Problems</b>   | <b>Cause</b>   | <b>Remedies</b>   |
|---|--|---|
| A. Pilot will ignite but will not remain alight when Gas Cock Dial is released.   | 1) Loose electrical connection at Hi-Limit Switch, Gas Control Valve or Thermostat.<br><br>2) Pilot flame too low.<br><br>3) Dirt in pilot.<br><br>4) Excessive draft caused by exhaust, air conditioner or make-up air equipment.<br><br>5) Thermopile defective. | 1) Retighten connections (see illustrations 2 and 2a).<br><br>2) Relight and adjust (as per instructions in Section E).<br><br>3) Remove pilot burner orifice, blow out dirt, replace, and relight pilot burner.<br><br>4) Reduce draft by regulating or diverting air flow.<br><br>5) Replace Thermopile.          |
| B. Main Burners will not fire with supply gas valve open and incoming gas present.                                      | 1) Loose connections at Thermostat Switch or Gas Control Valve.<br><br>2) Defective Thermostat Switch, Gas Control Valve or GS-7 Hemostat.   | 1) Retighten connections (see illustrations 2 and 2a).<br><br>2) Replace in that order.   |
| C. Main Burners and Safety Pilot go out after fryer has reached operating temperature.                                  | 1) Hi-Limit Safety Switch cut out due to out of calibration Thermostat.  | 1) Recalibrate Thermostat as per instructions in Section E3. If temperature is OK replace Hi-Limit Switch and light pilot.  |
| D. Main Burners do not come up to full power, flames appear to be lazy. Takes too long to reach operating temperatures. | 1) Gas pressure drop.<br><br>2) Defective or incorrect Gas Control Valve.  | 1) Check gas manifold pressure by removing ¼" NPT Plug and measuring pressure using U-Gauge Manometer. With Burners on, pressure should read 3.5" WC for NAT and 10.0" WC for PROP gas. Check Supply Line sizing. See Section A, "Gas Connection."<br><br>2) Replace Gas Control Valve (see Illustration 2 and 2a). |
| E. Frying temperature too high – shortening scorches and discolors quickly.   | 1) Thermostat set too high.<br><br>2) Shortening contaminated or of low quality.   | 1) Check temperature of shortening and adjust thermostat (as per instructions in Section E).<br><br>2) Filter or strain shortening. Use higher grade shortening.  |