



**Henny Penny
Holding Display Station**

Model HDS-300

TECHNICAL MANUAL

LIMITED WARRANTY FOR HENNY PENNY EQUIPMENT

Subject to the following conditions, Henny Penny Corporation makes the following limited warranties to the original purchaser only for Henny Penny appliances and replacement parts:

NEW EQUIPMENT: Any part of a new appliance, except baskets, lamps, and fuses, which proves to be defective in material or workmanship within two (2) years from date of original installation, will be repaired or replaced without charge F.O.B. factory, Eaton, Ohio, or F.O.B. authorized distributor. Baskets will be repaired or replaced for ninety (90) days from date of original installation. Lamps and fuses are not covered under this Limited Warranty. To validate this warranty, the registration card for the appliance must be mailed to Henny Penny within ten (10) days after installation.

FILTER SYSTEM: Failure of any parts within a fryer filter system caused by the use of the non-OEM filters or other unapproved filters is not covered under this Limited Warranty.

REPLACEMENT PARTS: Any appliance replacement part, except lamps and fuses, which proves to be defective in material or workmanship within ninety (90) days from date of original installation will be repaired or replaced without charge F.O.B. factory, Eaton, Ohio, or F.O.B. authorized distributor.

The warranty for new equipment covers the repair or replacement of the defective part and includes labor charges and maximum mileage charges of 200 miles round trip for a period of one (1) year from the date of original installation.

The warranty for replacement parts covers only the repair or replacement of the defective part and does not include any labor charges for the removal and installation of any parts, travel, or other expenses incidental to the repair or replacement of a part.

EXTENDED FRYPOT WARRANTY: Henny Penny will replace any frypot that fails due to manufacturing or workmanship issues for a period of up to seven (7) years from date of manufacture. This warranty shall not cover any frypot that fails due to any misuse or abuse, such as heating of the frypot without shortening.

0 TO 3 YEARS: During this time, any frypot that fails due to manufacturing or workmanship issues will be replaced at no charge for parts, labor, or freight. Henny Penny will either install a new frypot at no cost or provide a new or reconditioned replacement fryer at no cost.

3 TO 7 YEARS: During this time, any frypot that fails due to manufacturing or workmanship issues will be replaced at no charge for the frypot only. Any freight charges and labor costs to install the new frypot as well as the cost of any other parts replaced, such as insulation, thermal sensors, high limits, fittings, and hardware, will be the responsibility of the owner.

Any claim must be presented to either Henny Penny or the distributor from whom the appliance was purchased. No allowance will be granted for repairs made by anyone else without Henny Penny's written consent. If damage occurs during shipping, notify the sender at once so that a claim may be filed.

THE ABOVE LIMITED WARRANTY SETS FORTH THE SOLE REMEDY AGAINST HENNY PENNY FOR ANY BREACH OF WARRANTY OR OTHER TERM. BUYER AGREES THAT NO OTHER REMEDY (INCLUDING CLAIMS FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES) SHALL BE AVAILABLE.

The above limited warranty does not apply (a) to damage resulting from accident, alteration, misuse, or abuse; (b) if the equipment's serial number is removed or defaced; or (c) for lamps and fuses. THE ABOVE LIMITED WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY AND FITNESS, AND ALL OTHER WARRANTIES ARE EXCLUDED. HENNY PENNY NEITHER ASSUMES NOR AUTHORIZES ANY PERSON TO ASSUME FOR IT ANY OTHER OBLIGATION OR LIABILITY.

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SECTION 1. TROUBLESHOOTING

1-1. INTRODUCTION

This section provides troubleshooting information in the form of and easy to read table.

If a problem occurs during the first operation of a new unit, recheck the Installation Section of the Operator's Manual.

Before troubleshooting, always recheck the operating procedure per the Operation Section of the Operator's Manual.

1-2. SAFETY

Where information is of particular importance or is safety related, the words, NOTICE, CAUTION, or WARNING are used. Their usage is described below.



SAFETY ALERT SYMBOL is used with DANGER, WARNING, or CAUTION which indicates a personal injury type hazard.



NOTICE is used to highlight especially important information.



CAUTION used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.



CAUTION used with the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.



WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

1-3. TROUBLESHOOTING

To isolate a malfunction, proceed as follows:

1. Clearly define the problem (or symptom) and when it occurs.
2. Locate the problem in the troubleshooting table.
3. Review all possible causes. Then, one-at-a-time work through the list of corrections until the problem is solved.

1-3. TROUBLESHOOTING (Continued)

PROBLEM	CAUSE	CORRECTION
With power switch in POWER position, unit is completely inoperative (no power)	<ul style="list-style-type: none"> • Open circuit • Control board defective • Transformer defective 	<ul style="list-style-type: none"> • Check to see that unit is plugged in • Check breaker or fuse at supply box • Check voltage at wall receptacle • Check POWER switch; replace if defective • Check cord and plug for loose connections • Check for 12 volt input from transformer; replace if defective • Check input and output voltage; replace if defective
Unit will not heat	<ul style="list-style-type: none"> • Control board not calling for heat • Faulty contactor 	<ul style="list-style-type: none"> • Check set point reading; if unit below setpoint and not calling for heat, control board defective • Check contactor and replace if necessary
No shelf heat	<ul style="list-style-type: none"> • Faulty shelf or radiant heat relay • Faulty shelf heater • Faulty control or outputs board • Temperature setting “OFF” 	<ul style="list-style-type: none"> • Check and replace if necessary • Check and replace if necessary • Replace PC board • Enter Special Programming and set dc2 to 8
A top shelf radiant heater not heating	<ul style="list-style-type: none"> • Faulty radiant heat relay • Faulty contactor • Faulty radiant heater • Faulty control or outputs board • Temperature setting “OFF” 	<ul style="list-style-type: none"> • Check and replace if necessary • Check contactor and replace if necessary • Check and replace if necessary • Replace PC board • Enter Special Programming and set dc1 to 8

1-3. TROUBLESHOOTING (Continued)

PROBLEM	CAUSE	CORRECTION
Hot well not heating	<ul style="list-style-type: none"> • Faulty hot well relay • Faulty contactor • Faulty control or outputs board • Temperature setting “OFF” • Open circuit • Faulty hot well receptacle 	<ul style="list-style-type: none"> • Check and replace if necessary • Check contactor and replace if necessary • Replace PC board • Enter Special Programming and set dc4 to 8 • Check to see that hot well is plugged in, under the table-top • Check cord and plug for loose connections • Check and replace if necessary
No french-fry well radiant heat	<ul style="list-style-type: none"> • Faulty fries relay • Faulty contactor • Faulty control or outputs board • Temperature setting “OFF” 	<ul style="list-style-type: none"> • Check and replace if necessary • Check contactor and replace if necessary • Replace PC board • Enter Special Programming and set dc3 to 8
No light(s)	<ul style="list-style-type: none"> • Faulty contactor • Light socket shorted • Faulty light bulb • Blown fuse 	<ul style="list-style-type: none"> • Check contactor and replace if necessary • Replace light socket • Replace light bulb • Check fuse per fuse section

1-3. TROUBLESHOOTING (Continued)

PROBLEM	CAUSE	CORRECTION
Refrigeration unit not working	<ul style="list-style-type: none"> • Faulty hot well, fries or shelf heat relay • Faulty contactor • Faulty control or outputs board • Temperature setting “OFF” • Open circuit • Faulty refrigeration receptacle 	<ul style="list-style-type: none"> • Check and replace if necessary • Check contactor and replace if necessary • Replace PC board • Open refrigeration unit access panel and set control to a setting of 6 • Check to see that refrigeration unit is plugged in, under the table-top • Check cord and plug for loose connections • Check fuse per fuse section • Check and replace if necessary
Refrigeration unit runs constantly	<ul style="list-style-type: none"> • Frost build-up • Condensor coil dirty 	<ul style="list-style-type: none"> • Defrost unit • Clean condenser coil
Product not holding temperature	<ul style="list-style-type: none"> • Settings too low • Low or improper voltage • Product held too long • Product not placed correctly in unit • Compressor overheated • Product not hot when placed in unit • A 208V unit set for 240V 	<ul style="list-style-type: none"> • Check heat and refrigeration settings and set to a higher setting if necessary • Using meter, compare receptacle voltage to data plate voltage • Hold product for recommended time • Place product in unit as per Operation with Product Section of Operator’s Manual • Clean condenser coil • Be sure product is at proper temperature before placing into unit • Enter Special Programming and set the controls to 208V

1-3. TROUBLESHOOTING (Continued)

PROBLEM	CAUSE	CORRECTION
Product drying out	<ul style="list-style-type: none"> • Settings too high • High or improper voltage • Product held too long • Product not placed correctly in unit • A 240V unit set for 208V 	<ul style="list-style-type: none"> • Check heat settings and set to a lower setting if necessary • Using meter, compare receptacle voltage to data plate voltage • Hold product for recommended time • Place product in unit as per Operation with Product Section of Operator's Manual • Enter Special Programming and set the controls to 240V

1-4. ERROR CODES AND WARNINGS

The display shows the following error codes and warnings when a fault is detected, along with an alarm sound. Both the heat and humidity systems shut down, except when specified otherwise.

DISPLAY	CAUSE	CORRECTION
“E-4”	<ul style="list-style-type: none"> • Control board temperature above 140° F (60° C) 	<ul style="list-style-type: none"> • Check unit for overheating; if not overheating and “E04” persists, replace PC board
“E-41	<ul style="list-style-type: none"> • Scrambled PC board memory 	<ul style="list-style-type: none"> • Press UP button to clear “E41”; if “E41” persists, replace PC board
“HP”	<ul style="list-style-type: none"> • Unit over-heating; faulty relay or control board 	<ul style="list-style-type: none"> • Replace relay or control board, if necessary

SECTION 2. SPECIAL PROGRAM MODE

2-1. INTRODUCTION

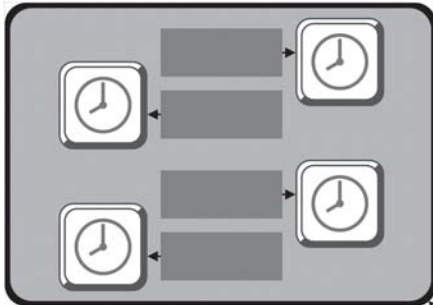


Figure 1

The Special Program Mode includes speaker settings, heat settings, hold time settings, drop time settings, and initializing the controls .

Reference the control drawing (Figure 1) while in the Special Program Mode.

2-2. SPECIAL PROGRAM STEPS

Any of the timer buttons and displays can be used to enter the Special Program Mode.

1. Turn the power switch to the off position, and then turn the unit back on. Wait for “88:88” to disappear from the displays and then press and hold a timer button .
2. Release once “CodE” shows in a top display and “0---” shows in a lower display. Enter code 1971 by pressing next to the lower display, one digit at a time. Once the correct number shows, press for the upper display to advance to the next number.
3. When the last code number is entered, the first step of the Special Program Mode (“LOUD”) shows in the display .

NOTICE

If an incorrect value is entered, “bad” and then “code” is displayed and an alarm sounds. Press either to clear the alarm and to return to normal operating mode.

Speaker Volume



4. “LOUD” now shows in the top display and the volume setting (1-10) shows in the lower display. Press the lower to change the speaker volume. Default setting is 10.

Speaker Frequency



5. Press the upper and “FrE” shows in the top display. The speaker frequency setting (1000-5000 Hz) shows in the lower display. Press the lower to change the speaker volume. Default setting is 1300.

2-2. SPECIAL PROGRAM STEPS **(Continued)**



dc1 Setpoint - Top Shelf Radiant Heat Setting

6. Press the upper  and “dc1” shows in the top display. The duty cycle setting (OFF to 10) shows in the lower display. Press the lower  to change the heat setting. Default setting is 8.



dc2 Setpoint - Middle Shelf Heat Setting

7. Press the upper  and “dc2” shows in the top display. The duty cycle setting (OFF to 10) shows in the lower display. Press the lower  to change the heat setting. Default setting is 8.




dc3 Setpoint - French-Fry Radiant Heat Setting

8. Press the upper  and “dc3” shows in the top display. The duty cycle setting (OFF to 10) shows in the lower display. Press the lower  to change the heat setting. Default setting is 8.




dc4 Setpoint - Hot Well Heat Setting

9. Press the upper  and “dc4” shows in the top display. The duty cycle setting (OFF to 10) shows in the lower display. Press the lower  to change the heat setting. Default setting is 8.



Hold Time Setpoint

10. Press the upper  and “Hold” shows in the top display. The appropriate hold time (00:00-99:59) shows in each display. Press the lower  for each display to change the hold time, one digit at a time. Once the correct number shows, press  for the upper display to advance to the next number. Default setting is 30:00 for wings/camperitos and 7:00 for fries.

Drop Time Setpoint

11. Press the upper  and “droP” shows in the top display. The appropriate drop time (00:00-99:59) shows in each display. Press the lower  for each display to change the drop time, one digit at a time. Once the correct number shows, press  for the upper display to advance to the next number. Default setting is 5:00 for wings/camperitos and 3:30 for fries.

Initializing the Controls

12. Press the upper  and “InI” shows in the top display and “In-” shows in the lower display. Press and hold the lower  and display counts down, “In-3”, “In-2”, “In-1” and then the display shows “InI”, “SYS”, “donE”. Once complete, steps 4 to 12 above are set to their defaults. The line voltage setting is not changed.

2-3. HEAT DUTY CYCLE **EXPLANATION**

Steps 6 through 9 refer to duty cycles dc1, dc2, dc3, dc4. The number programmed in the controls is equal to a heat-on percentage. See table below.

Duty Cycle Setpoint	(%)
0	0
1	46
2	52
3	58
4	64
5	70
6	76
7	82
8	88
9	94
10	100

2-4. TECH MODE

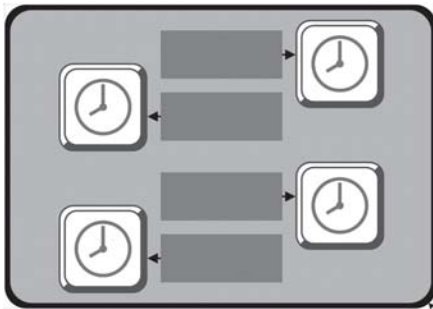







Figure 1

Any of the timer buttons and displays can be used to enter the Tech Mode. The steps in this mode include, outputs tests, line voltage setting and initialization of the controls. Reference the control drawing (Figure 1) while in the Tech Mode.

1. Turn the power switch to the off position, and then turn the unit back on. Wait for “88:88” to disappear from the displays and then press and hold a timer button .
2. Release  once “CodE” shows in a top display and “0---” shows in a lower display. Enter code 1122 by pressing  next to the lower display, one digit at a time. Once the correct number shows, press  for the upper display to advance to the next number.
3. When the last code number is entered, the first step of the Tech Mode (“All”) shows in the display .

NOTICE

If an incorrect value is entered, “bad” and then “code” is displayed and an alarm sounds. Press either  to clear the alarm and to return to normal operating mode.


All Outputs Test

4. “All” now shows in the top display. Pressing the lower  toggles on and off all the outputs described in steps 5 through 8.

2-4. TECH MODE (Continued)

OP1 - Hot Well Heater Test

5. Press the upper  and “OP1” shows in the top display.

Pressing the lower  toggles on and off the outputs for the hot well heater, including relay 4. (See wiring diagram)


OP2 - French-Fry Heater Test

6. Press the upper  and “OP2” shows in the top display.

Pressing the lower  toggles on and off the outputs for the french-fry heater, including relay 3. (See wiring diagram)


OP3 - Middle Shelf Heater Test

7. Press the upper  and “OP3” shows in the top display.

Pressing the lower  toggles on and off the outputs for the shelf heater, including relay 2. (See wiring diagram)



OP4 - Upper Radiant Heaters Test

8. Press the upper  and “OP4” shows in the top display.



Pressing the lower  toggles on and off the outputs for the radiant heaters, including relay 1. (See wiring diagram)

9. Line Voltage Setting

The line voltage for the unit should be set during initial start-up of the unit. But, the voltage can also be set in this step of the Tech Mode.

Press the upper  and “LInE” shows in the top display. The lower display shows “---”, 208, or 240 depending upon what was chosen in the initial start-up of the unit. Pressing the lower  toggles between the 3 choices.

10. Control Initialization

Press the upper  and “InI” shows in the top display. “In-” shows in the lower display. Press and hold the lower  and the display counts down, “In-3”, “In-2”, “In-1” and then shows “InI”, “SYS”, “donE”. Once complete, all the program-mable values are set to their defaults (See Special Program Steps) and the voltage setting is cleared to unknown.

SECTION 3. MAINTENANCE

3-1. INTRODUCTION

This section provides procedures for the checkout and replacement of the various parts used within the unit. Before replacing any parts, refer to the Troubleshooting Section. It will aid you in determining the cause of the malfunction.

3-2. MAINTENANCE HINTS

1. You may want to use a multimeter to check the electric components.
2. When the manual refers to the circuit being closed, the multimeter should read zero unless otherwise noted.
3. When the manual refers to the circuit being open, the multimeter reads infinity.

3-3. LIGHT SOCKET REPLACEMENT



Figure 1



To avoid electrical shock or property damage, move the POWER switch to OFF and disconnect main circuit breaker, or unplug cord at wall receptacle.

To avoid burns, allow the unit to cool before servicing.

Light Socket - Top

1. Remove both end panels. Figure 1.



Figure 2

2. Remove terminal screws from each end of the control side radiant element. Figure 2.

3-3. LAMP SOCKET REPLACEMENT **(Continued)**



Figure 3



Figure 4

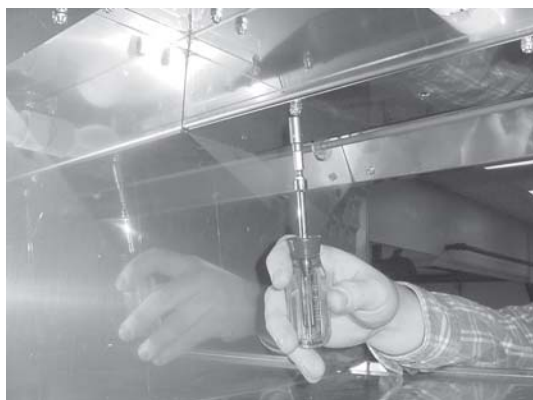


Figure 5



Figure 6

3. Remove mounting screws on each end of control side radiant heater. Figure 3.
4. Remove the heater supports. Figure 4.
5. Pull radiant heater from unit.
6. Using a Phillip's-head screwdriver, or a #8 Torx socket, remove the screws securing the ceiling and ceiling edge panels. Figures 5 & 6.

3-3. LAMP SOCKET REPLACEMENT
(Continued)

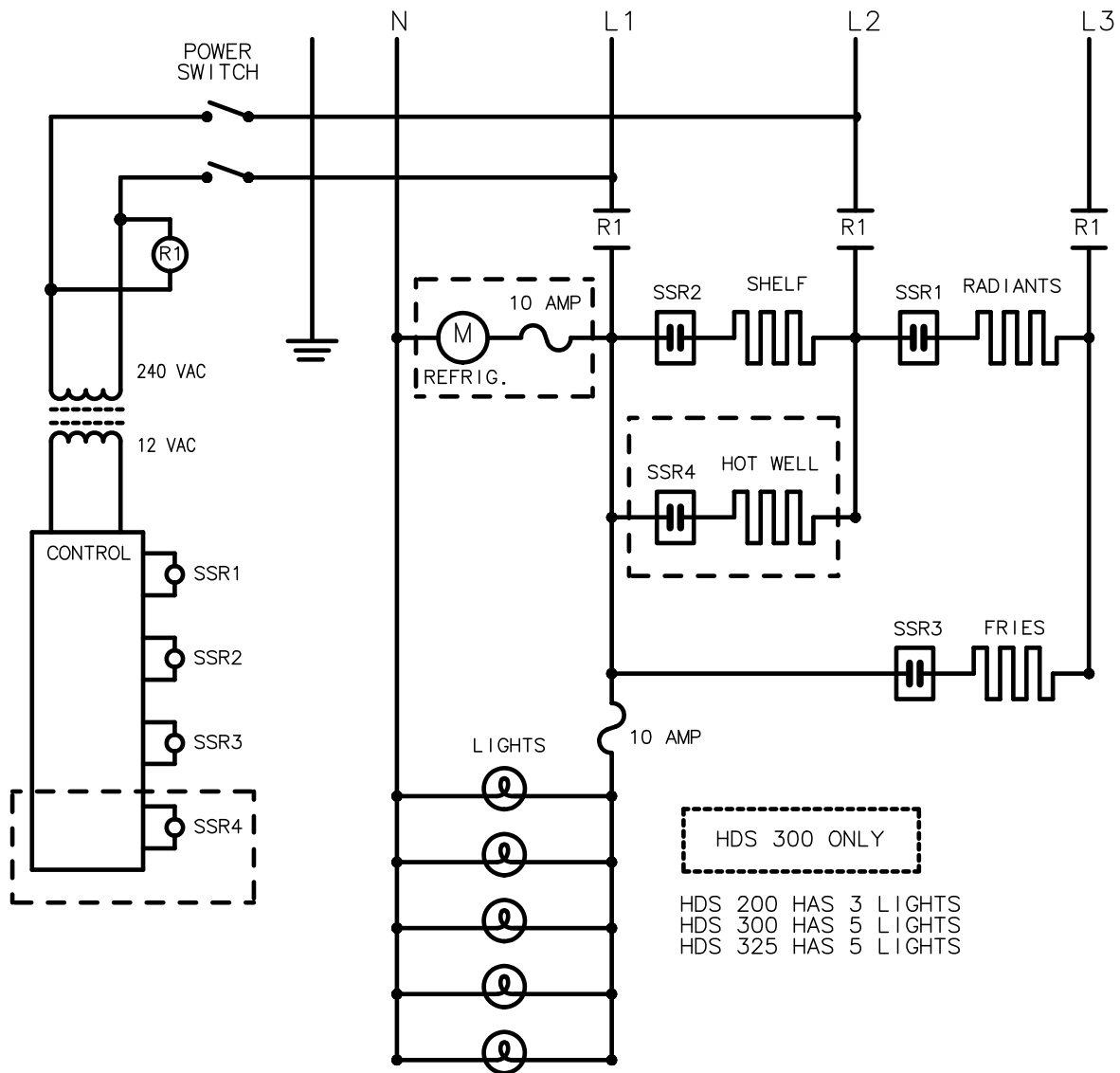


Figure 7

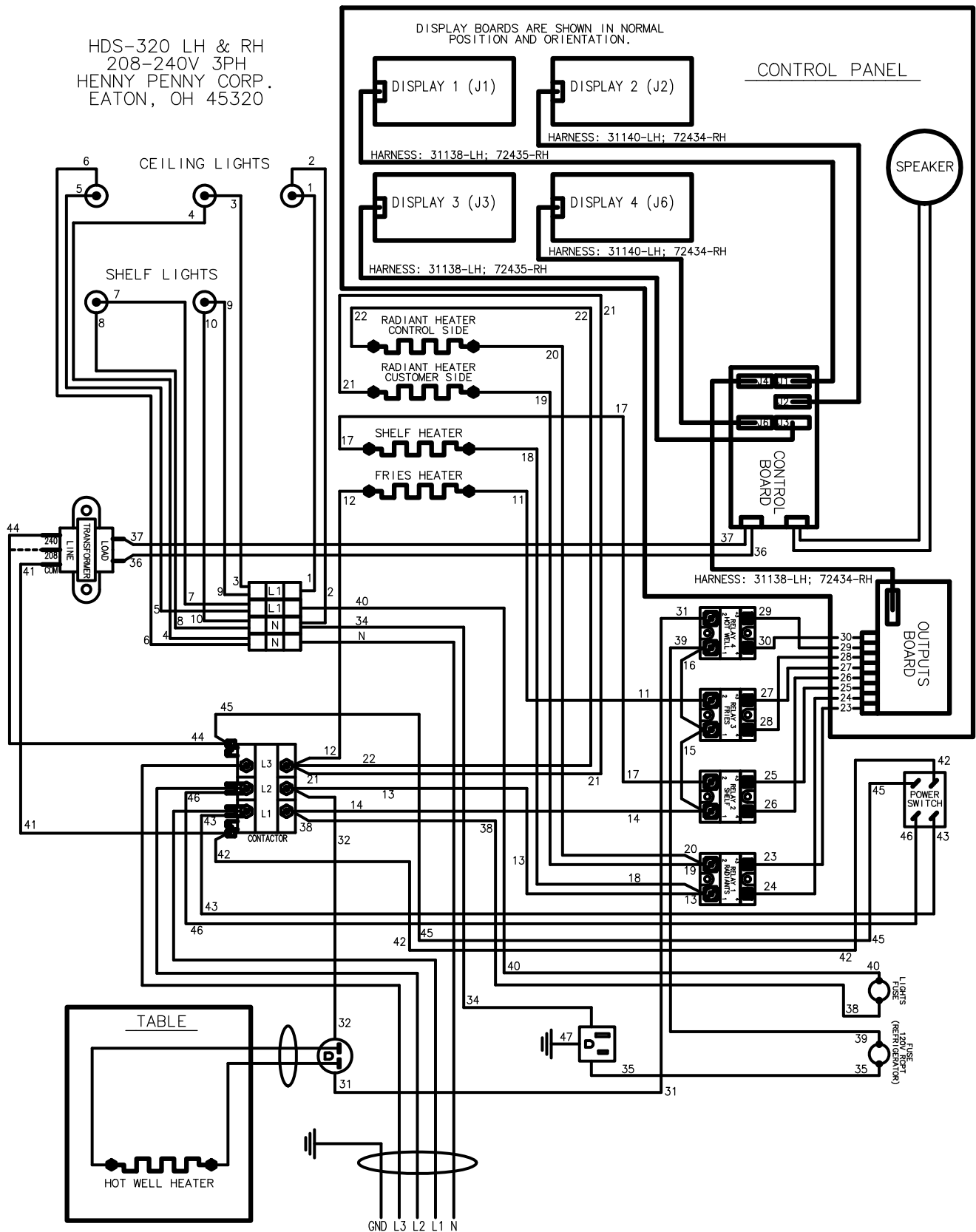
7. Cut silicone seal around ceiling panels and remove panels from unit.
8. Using a Phillip's-head screwdriver, remove the wires from the faulty socket reflector.
9. Press in on the brackets of the light socket and remove socket from the panel. Figure 7.
10. Install new lamp socket in reverse order.



HDS-200/300/325
208-240V 3PH



70697



72256

SECTION 4. PARTS INFORMATION

4-1. INTRODUCTION

This section identifies and lists the replaceable parts of the Henny Penny display.

4-2. GENUINE PARTS

Use only genuine Henny Penny parts in your cabinet. Using a part of lesser quality or substitute design may result in cabinet damage or personal injury.

4-3. HOW TO ORDER

Once the part you want to order has been found in the Parts List, write down the following information:

1. From the Parts List
(Sample)

Item Number 8
Part Number EF02-105
Description Fuse

2. From the data plate
(Sample)

Product Number HDS320.0
Serial Number JG05060102
Voltage 120/240V

4-4. PRICES

Your independent Henny Penny distributor has a price parts list and will be glad to inform you of the cost of your parts order.

4-5. DELIVERY

Commonly replaced items are stocked by your independent Henny Penny distributor and will be sent out when your order is received. Other parts will be ordered by the distributor from Henny Penny Corporation. Normally, these will be sent to your distributor within three working days.

4-6. WARRANTY

All replacement parts (except lamps and fuses) are covered under warranty for 90 days against manufacturing defects and workmanship. If damage occurs during shipping, notify the carrier at once so that a claim may be properly filed. Refer to warranty on the front of this section for other rights and limitations.

4-7. RECOMMENDED SPARE PARTS FOR DISTRIBUTORS

Recommended replacement parts, stocked by your distributor, are indicated with ✓ in the parts lists. Please use care when ordering recommended parts, because all voltages and variations are marked. Distributors should order parts based upon common voltages and equipment sold in their territory.

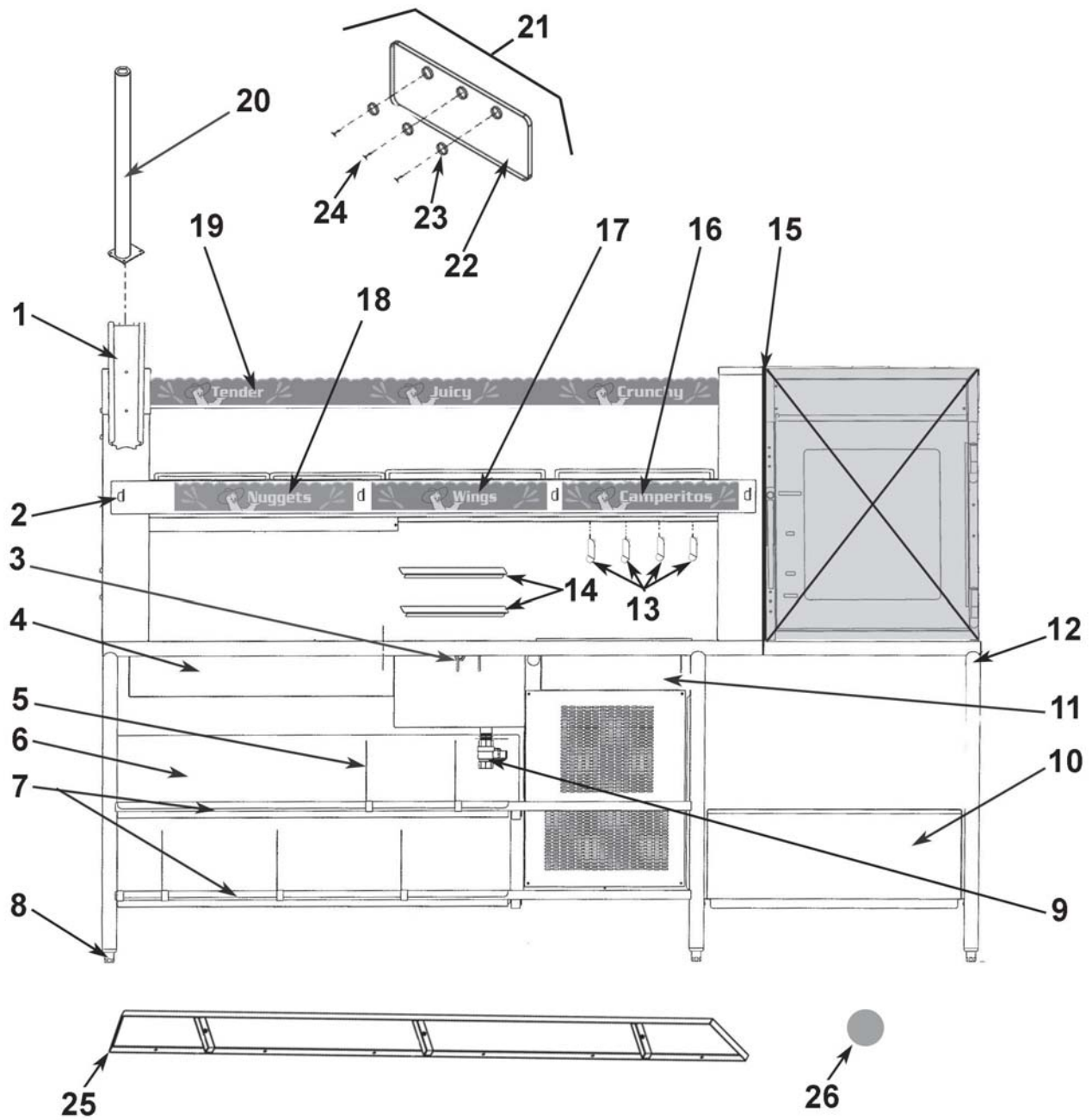


Figure 4-1. Customer Side Parts

Figure

Figure & Item No.	Part No.	Description	Quantity
4-1		Customer Side Parts	
1	71317	Weld Assy - Small Envelope Dispenser	2
2	70985	Stud Assy - Tongs Hanger	8
3	71425	Hanger - T-Shirt Bag	2
4	70663	Bin - 6 inch Tall HDS Storage	2
√ 5	71219	Divider - Removable Shelf	25
6	70447	Wall - HDS310 - Middle	1
7	71216	Shelf - Removable Table	2
8	26120	Foot - Adjustable	4
9	70043	Valve - 1 inch NPT SS Ball	1
10	03545	Support - MP941 Cabinet (Optional)	1
11	70664	Bin - 5 inch Tall HDS Storage	2
12	03544	Extension Table	1
13	70751	Stud Assy - Clip Card Holder	6
√ 14	69782	Support - Hot Well Pan	2
15a	69567	Gasket - Vertical HDs	2
15b	69568	Gasket - Horizontal HDS	1
16	72402	Banner - Camperitos	1
17	72401	Banner - Wings	1
18	72400	Banner - Nuggets	1
19	72399	Banner - Tender, Juicy, Crunchy	1
20	70928	Weld Assy - Flanged Wireway (Optional)	1
21	03546	Board - Magnetic HDPE Cutting (Optioinal)	2
22	71397	Board - Countertop Extension	2
23	MS01-531	Magnet - Encased Ceramic Cup	3
24	SC02-023	Screw - #8-B X 3/8 PH Pan S	3
25	73798	Weld Assy - 5 in. Table Extension (Optional)	2
26	PL01-036	Plug Button - 9/32"	12

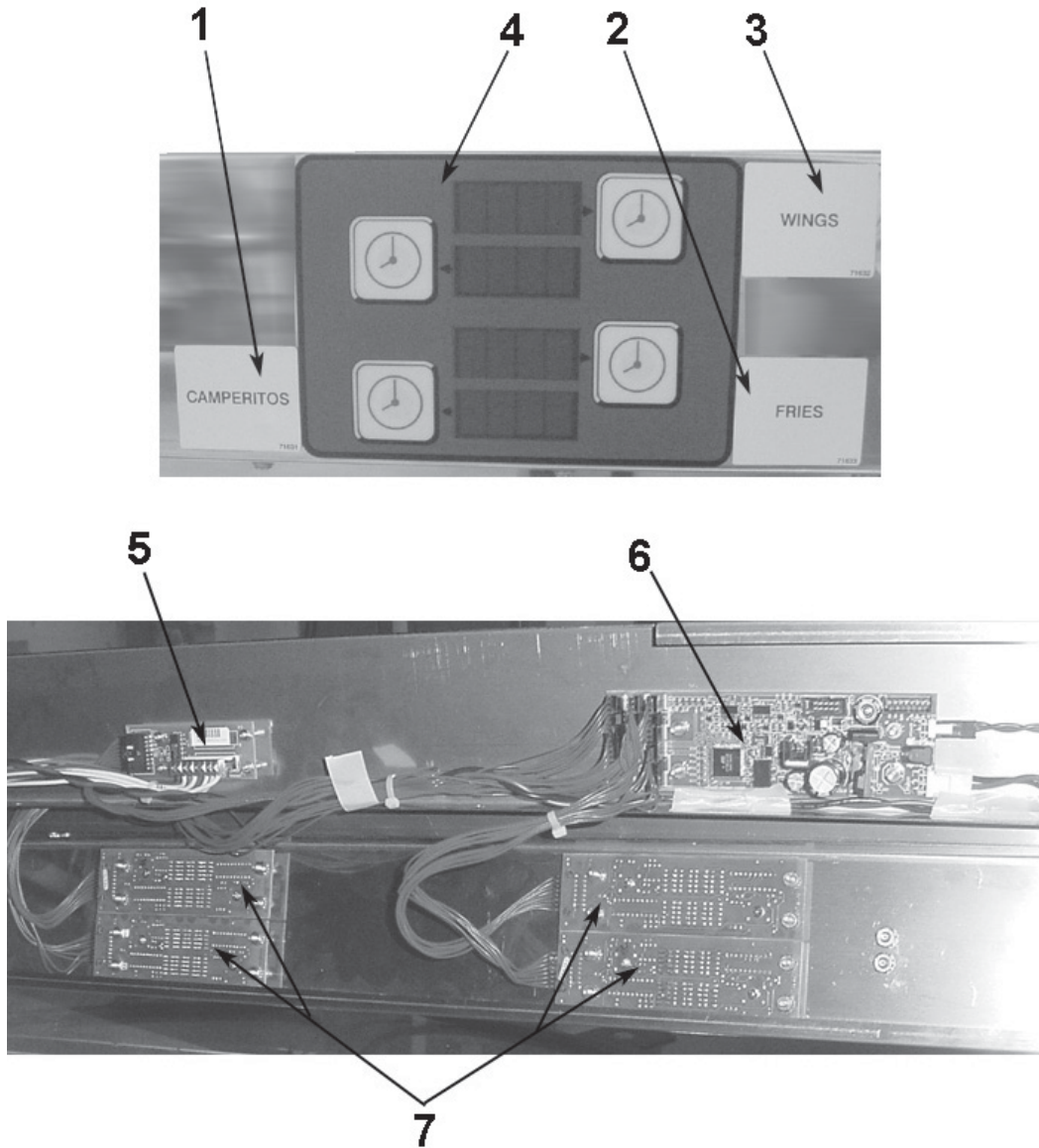


Figure 4-2. Control Parts

Figure & Item No.	Part No.	Description	Quantity
4-2		Control Parts	
✓ 1	71631	Label - Camperitos - Magnet	2
✓ 2	71633	Label - Fries - Magnet	2
✓ 3	71632	Label - Wings - Magnet	2
4	71759	Decal - Campero 4 Button - Blank	2
✓ 5	71620	PCB - 8-Output - 5V Only	1
✓ 6	70866	Control - HDS - CPU - PCB	1
✓ 7	65022	Assy - 2-Timer Touch Switch - Display	4

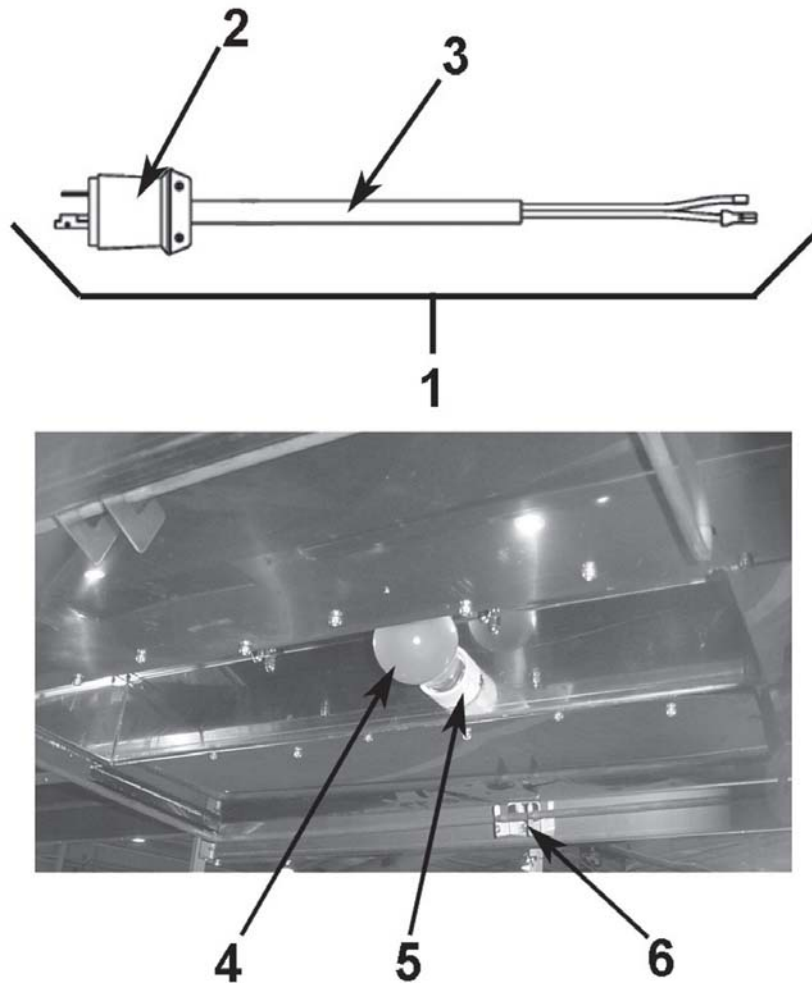


Figure 4-3. Ceiling and Power Cord Parts

Figure & Item No.	Part No.	Description	Quantity
4-3		Ceiling and Power Cord Parts	
1	71002	Assy - 208/240V/15A - Power Cord (Hot Well)	1
2	71020	Plug - Angled - 250V-15A - NEMA - 6-15P	1
3	MS01-175	Cable - #14/3 Black Jacket	1
1	71841-001	Assy - 208/30A/3PH Cord & Plug (103 in. - bottom exit)	1
1	71841-002	Assy - 208/30A/3PH Cord & Plug (127 in. - top exit)	1
2	55802	Plug - 120/208V - 5 Wire 3PH-30A - NEMA-L21-30P	1
3	MS01-440	Cable - #10/3 Black Jacket	1
√ 4	BL01-018	Lamp - 90W-130V - Halogen Dbl. Jacket	5
√ 4	BL01-015	Lamp - 60W-240V - GLS Teflon Coated - CE	5
√ 5	39795	Lamp Holder - Ceramic	5
√ 5	54041	Lamp Holder - Porcelain - CE	5
6	71609	Hanger - Dump Station Heater	3
6	69116	Hanger - Radiant Heater	4

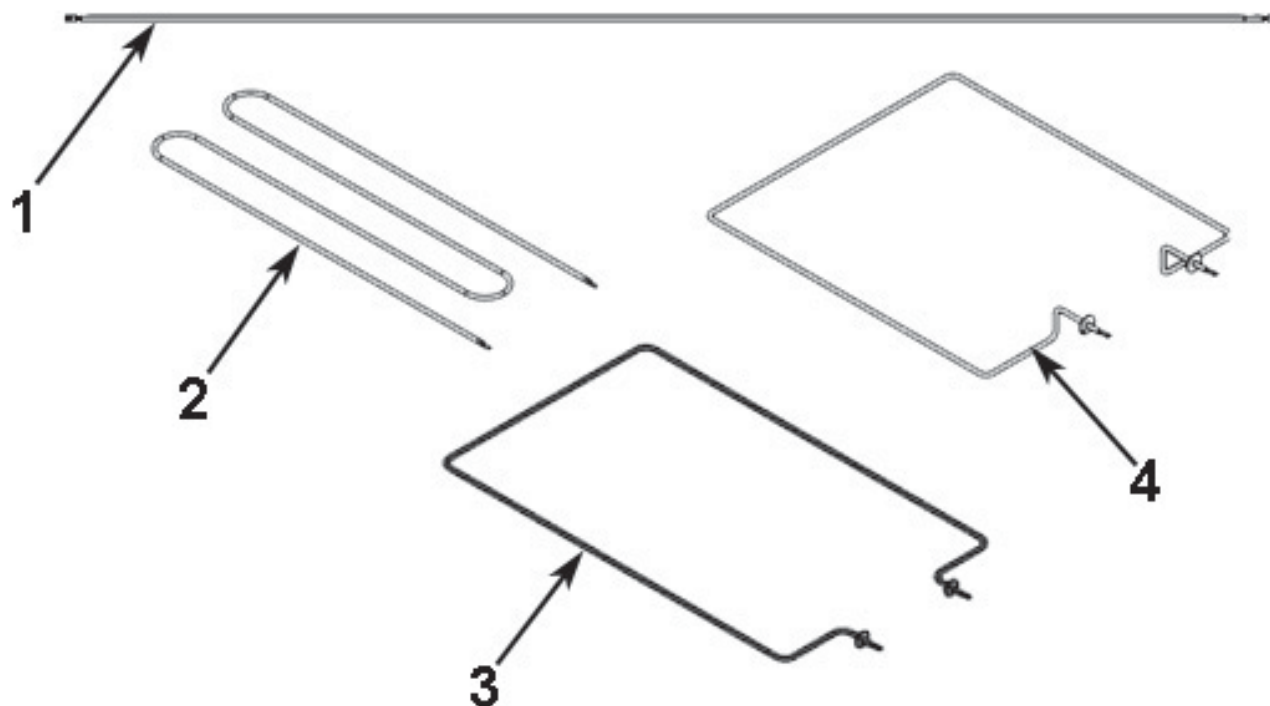


Figure 4-4. Heaters

Figure & Item No.	Part No.	Description	Quantity
4-4		Heaters	
√ 1	69078-01	Heater - 240V - 2000W - Radiant	1
√ 1	69078-03	Heater - 240V - 1600W - Radiant	1
√ 2	69870	Heater - 240V - 1000W - Water Pan	1
√ 3	69398-01	Heater - 240V - 750W - Shelf	1
√ 4	69401-01	Heater - 240V - 1600W - FF Dump Station	1

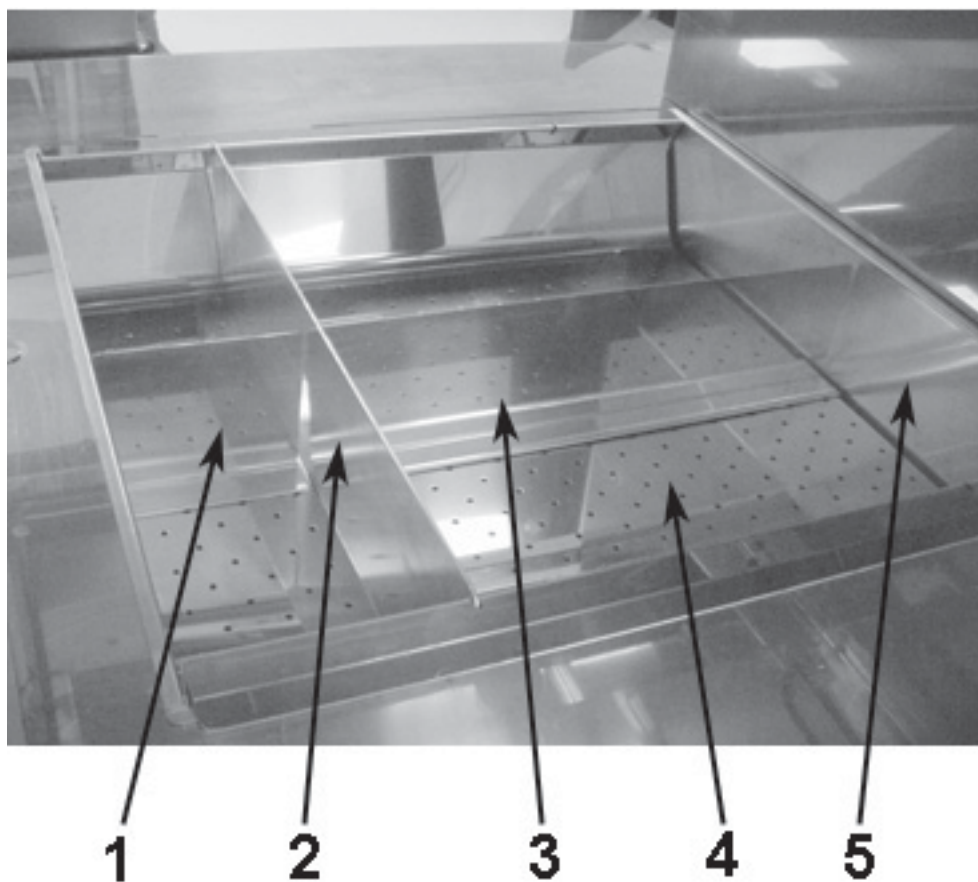


Figure 4-5. French-Fry Dump Tray Parts

Figure & Item No.	Part No.	Description	Quantity
4-5		French-Fry Bin Parts	
√ 1	71140	Stud Assy - Short Tray Divider	1
√ 2	69498	Divider - Dump Tray	1
√ 3	71141	Stud Assy - Long Tray Divider	1
4	69433	Tray - Perforated Dump	1
5	69426	Liner - Dump Tray - Removable	1

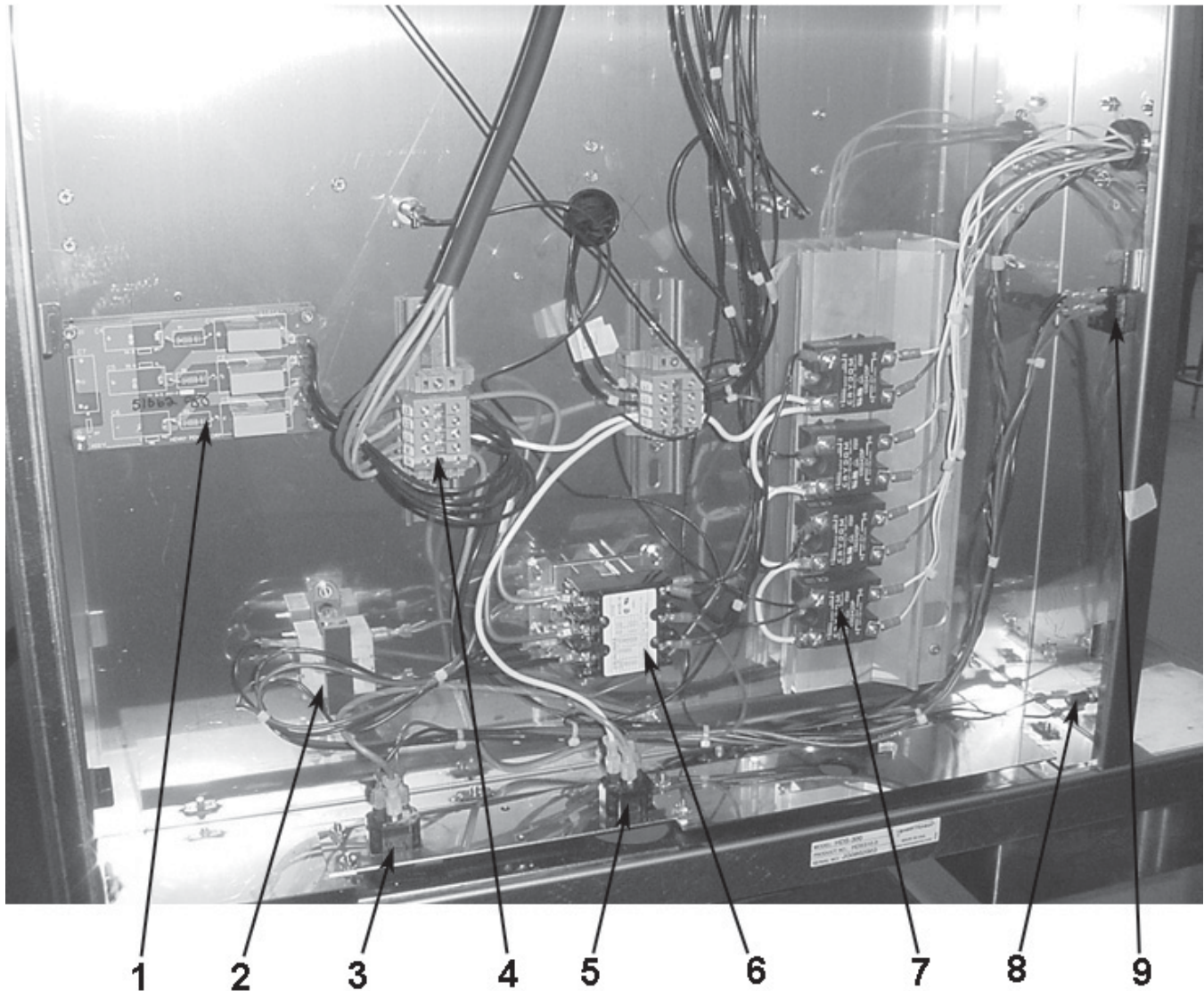


Figure 4-6. Power Supply Components

Figure & Item No.	Part No.	Description	Quantity
4-6		Power Supply Components	
1	51062	Board - EMC Filter - CE	1
√ 2	28979	Transformer - 208/240VP - 12VS	1
√ 3	36811	Receptacle - 15A-250V (Hot Well)	1
4	71752	Assy - 4-Pole Terminal Block (non-CE)	1
√ 5	MS01-197	Receptacle - NEMA 5-15R (Cold Well)	1
√ 6	19405	Contactor - 208-240VAC Coil	1
√ 7	40645	Relay - 25A Solid State	4
√ 8	EF02-104	Fuse - 20 Amp	2
√ 8	EF02-105	Fuse - 15 Amp	2
√ 9	72277	Switch - Power DPST 125-250V	1

√ recommended parts

