



Henny Penny
Heated Holding Cabinet

Model HHC-901
Model HHC-904

TECHNICAL MANUAL

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SECTION 1. TROUBLESHOOTING

1-1. INTRODUCTION

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

If a problem occurs during the first operation of a new cabinet.

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 indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.



The word WARNING is used to alert you to a procedure, that if not performed properly, might cause personal injury.

1-3. TEST INSTRUMENTS

You may use two test instruments to check the electrical components.

1. A voltmeter
2. An ohmmeter.

When the manual refers to the circuit being closed, the ohmmeter should read zero unless otherwise noted. When the manual refers to the circuit being open, the ohmmeter will read infinite resistance.

NOTICE

Do not use an ohmmeter to check solid state relays. Use a voltmeter as described in the Troubleshooting Section.

1-4. 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.

PROBLEM	CAUSE	CORRECTION
With power switch in POWER position, unit is completely inoperative (no power)	<ul style="list-style-type: none"> • Open circuit 	<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 internal component connectors, and the cord and plug, for loose connections
	<ul style="list-style-type: none"> • Transformer defective 	<ul style="list-style-type: none"> • Check input and output voltage; replace if defective
	<ul style="list-style-type: none"> • Control board defective 	<ul style="list-style-type: none"> • Check for 12 volt input from transformer; if control board shows 12 volts, replace control board

1-4. TROUBLESHOOTING (Continued)

PROBLEM	CAUSE	CORRECTION
OPERATION		
A.Product not holding temperature	<ul style="list-style-type: none"> • Doors are left open • Temperature set too low • Gasket torn or worn • Heater not working • Blower not working • Product held too long • Low or improper voltage 	<ul style="list-style-type: none"> • Keep doors closed except to load and unload product • Increase temperature per instructions in Operator’s Manual • Replace gasket per • Check heater; replace Heater if needed • Check blower; replace Blower if needed • Hold product only for recommended time • Using meter, compare receptacle voltage to data plate voltage
B.Cabinet steaming - product becoming soggy	<ul style="list-style-type: none"> • Too much humidity inside the cabinet • Holding product too long 	<ul style="list-style-type: none"> • Empty water from the water pan • Hold product for recommended time
C.Product dry	<ul style="list-style-type: none"> • No water in pan 	<ul style="list-style-type: none"> • Remove pan and put in approximately 1" of hot water
HEATING SYSTEM		
A.Unit will not heat	<ul style="list-style-type: none"> • Faulty control • Faulty high limit • Faulty heater • Faulty wiring 	<ul style="list-style-type: none"> • Change control PCB if needed • Check high limit and replace if needed • Check heater and replace if needed • Check wiring for loose connections or broken wires and repair as necessary

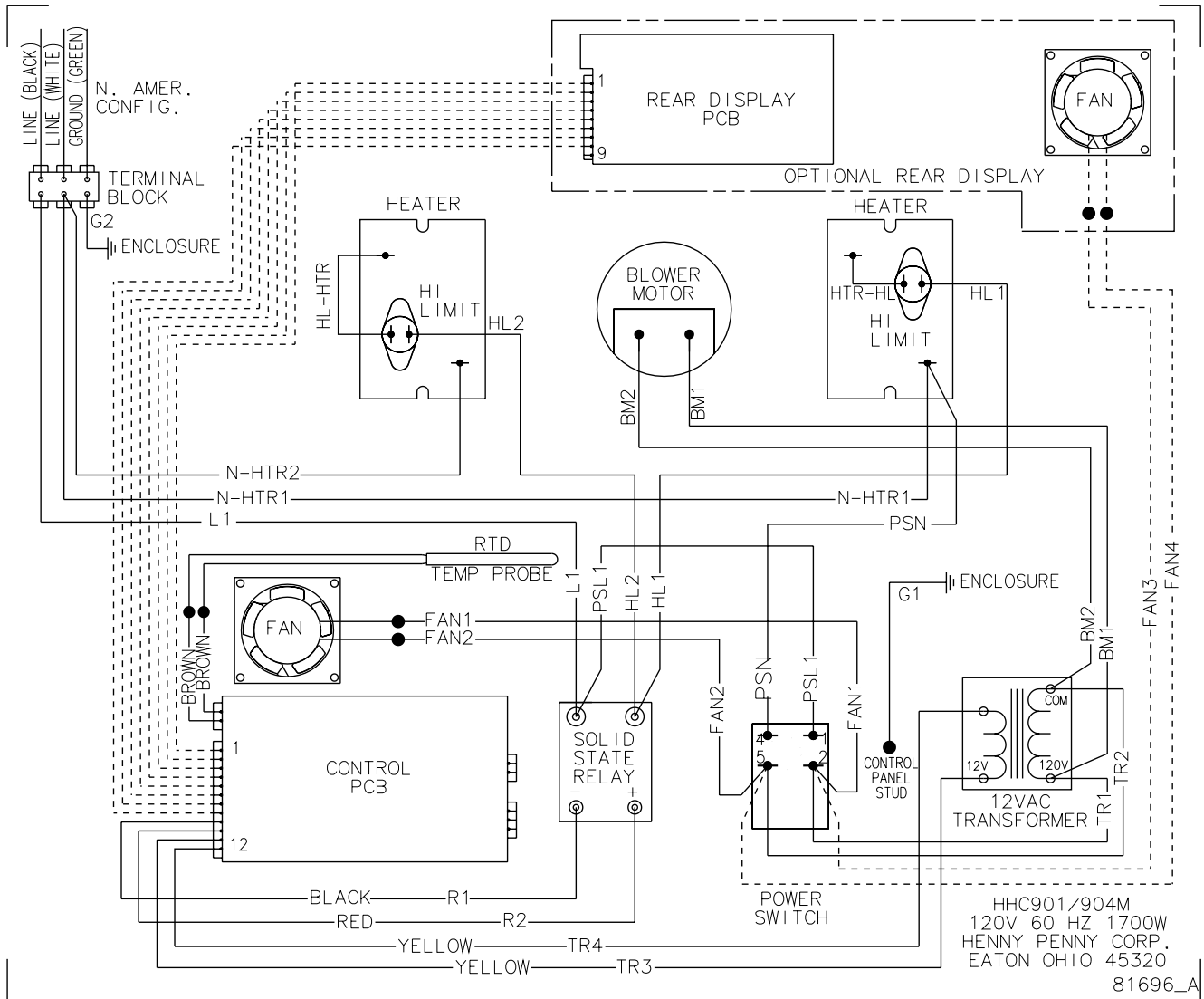
1-4. TROUBLESHOOTING (Continued)

PROBLEM	CAUSE	CORRECTION
HEATING SYSTEM (Continued)		
<p>B. Unit will not heat to desired temperature</p>	<ul style="list-style-type: none"> • Faulty blower • Display not indicating true temperature • One of heaters defective • Doors being left open too much • Gaskets torn or worn • Defective high limit on one of heaters 	<ul style="list-style-type: none"> • Check blower and replace if needed • Check probe calibration and change calibration or offset if necessary • Check heater and replace if needed • Only open doors as necessary • Replace gasket • Check high limit and replace if needed
<p>C. Unit overheating</p>	<ul style="list-style-type: none"> • Faulty control • Faulty blower 	<ul style="list-style-type: none"> • Replace control PCB if needed • Check blowers and replace if needed

1-5. ERROR CODES

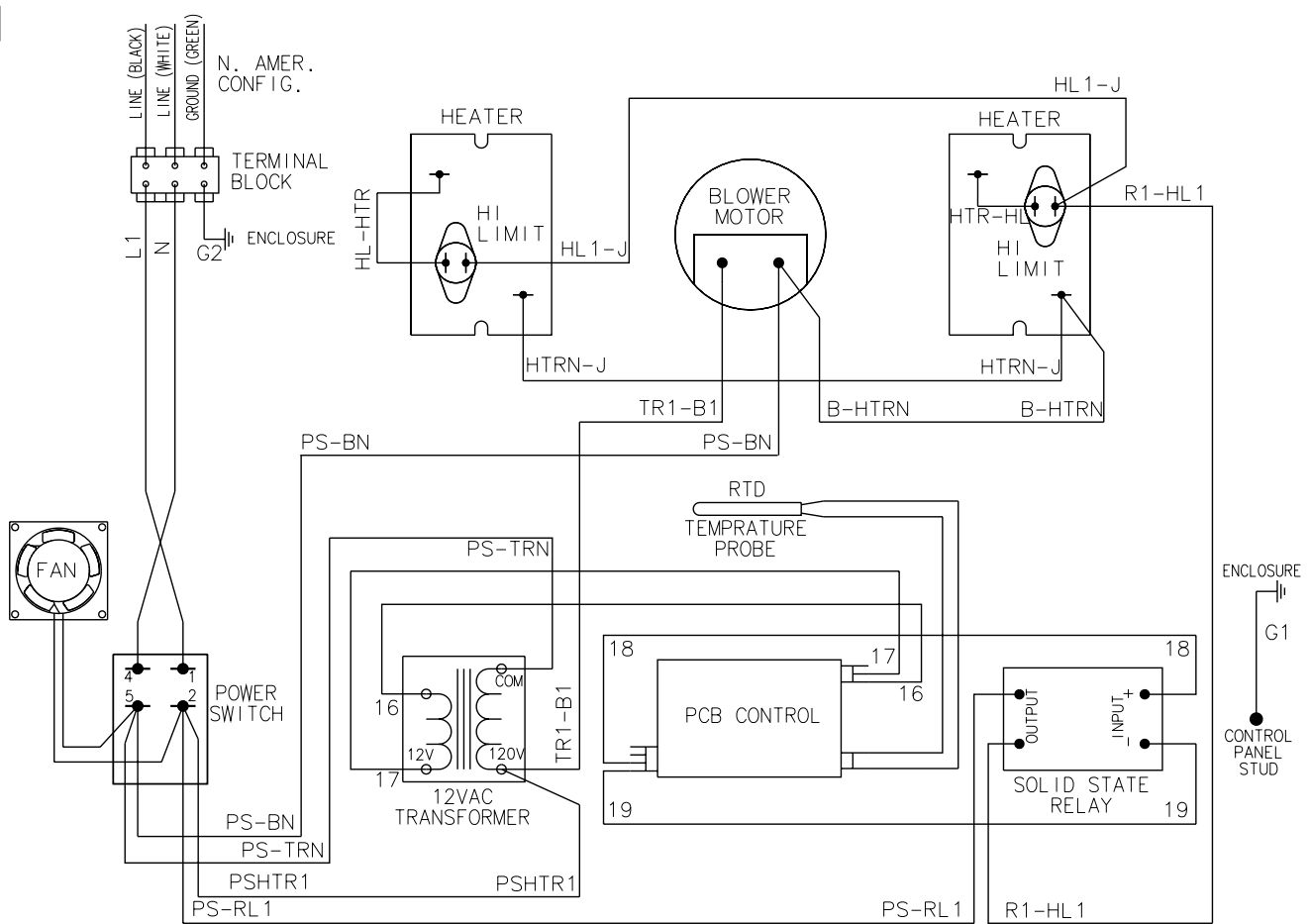
DISPLAY	CAUSE	PANEL BOARD CORRECTION
“E-4”	Control board overheating	Turn switch to OFF position, then turn switch back to ON; if display shows “E-4”, the control board is getting too hot; make sure unit is not overheating; if control board is not overheating and “E-4” persists, replace control board
“E-6”	Faulty temperature probe	Turn switch to OFF position, then turn switch back to ON; if “E-6” still shows, have temperature probe checked
“E-41”	Memory scrambled	Turn switch to OFF position, then turn switch back to ON; if “E-41” still shows, have the controls initialized; if display still shows “E-41”, replace control board
“E-5”	Unit over-heating; faulty relay or control board	If control board doesn’t cut power to relay when the LED is green, then replace control board; but if control board does cut power to relay when the LED is green, but unit continues to heat, check relay
“E-50”	RAM failure	Turn switch to OFF position, then back to ON; if “E-50” reappears, replace control board
“E-51”	NOVRAM failure	Turn switch to OFF position, then back to ON; if “E-51” reappears, replace control board
“E-53”	EPROM failure	Turn switch to OFF position, then back to ON; if “E-53” reappears, replace control board

WIRING DIAGRAMS



CDT CONTROLS - 120V

WIRING DIAGRAMS



HHC-901/904M
120V 60 HZ
1700W
HENNY PENNY CORP.
EATON, OHIO 45320

77793_A

SIMPLE CONTROLS - 120V

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.

Revised 01/01/07

SECTION 2. PARTS INFORMATION

2-1. INTRODUCTION

This section lists the replaceable parts of the Henny Penny HHC-901 & HHC-904 units.

2-2. GENUINE PARTS

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

2-3. WHEN ORDERING PARTS

Once the parts that you want to order have been found in the parts list, write down the following information:

Example:	Item Number	<u>8</u>
	Part Number	<u>27149</u>
	Description	<u>STOP - DOOR</u>

From data plate, list the following information:

Example:	Product Number	<u>HHC901.0</u>
	Serial Number	<u>AW001IE</u>
	Voltage	<u>120 Volt</u>

2-4. PRICES

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

2-5. DELIVERY

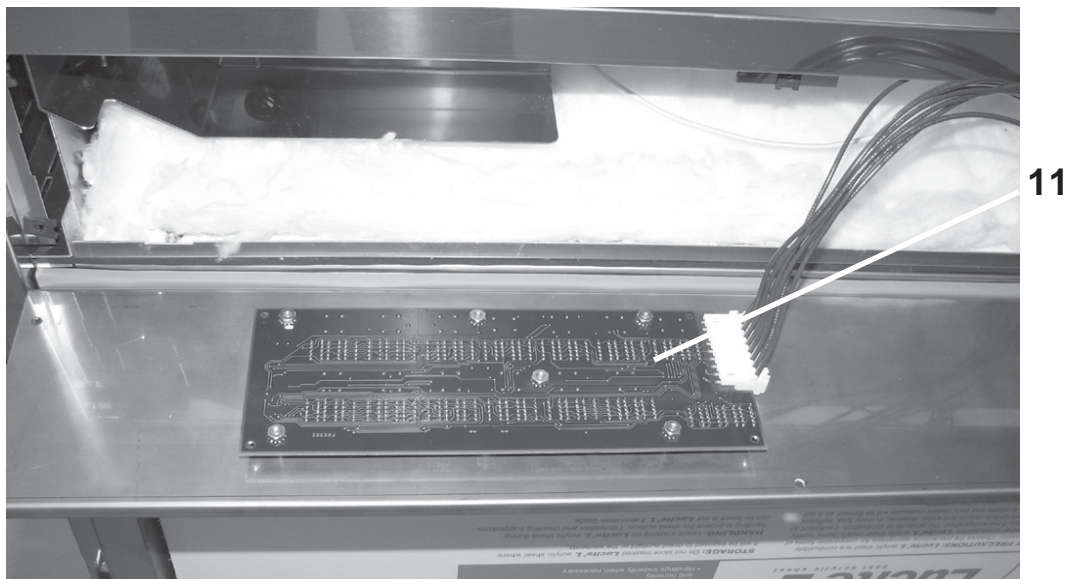
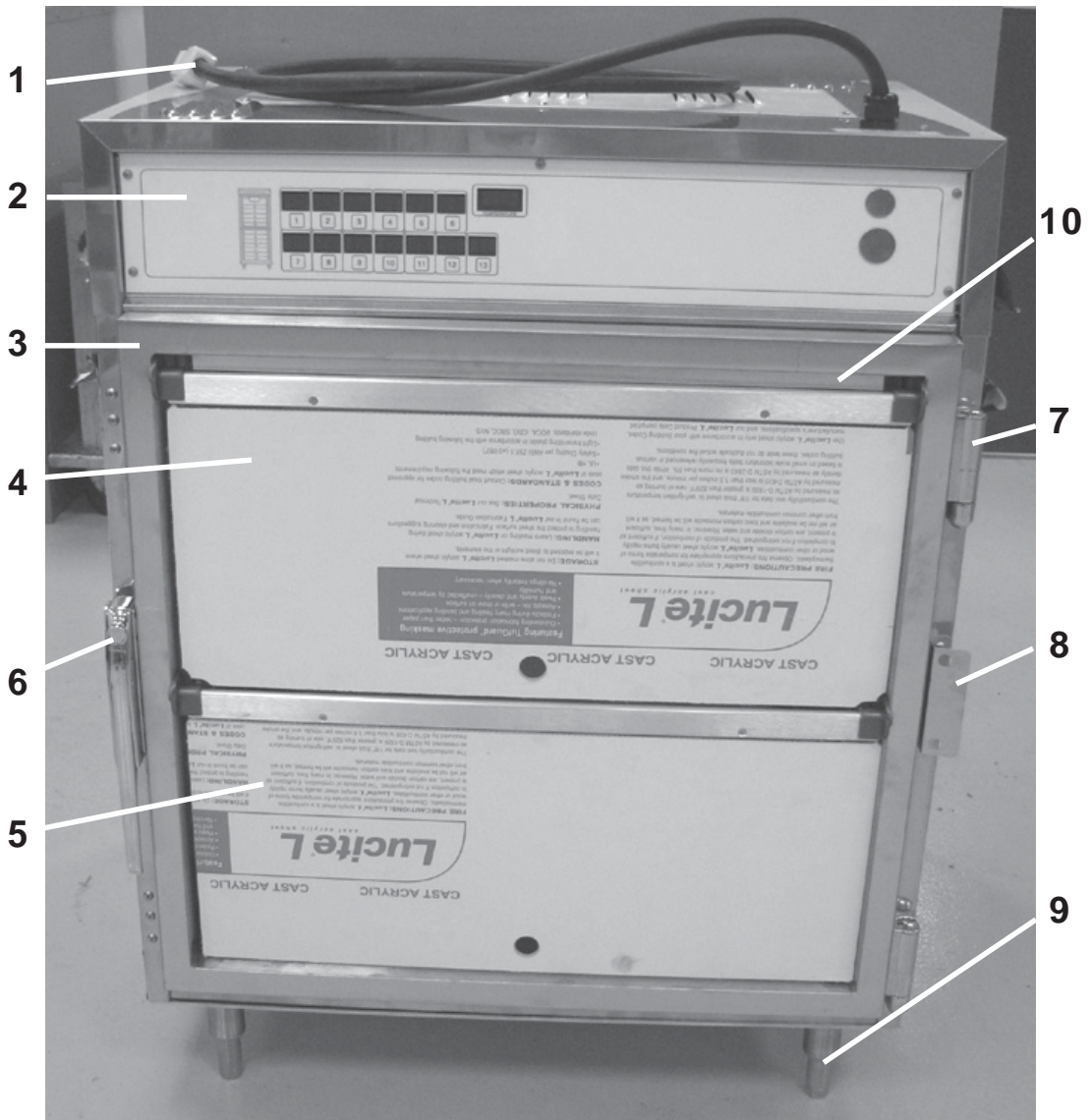
Commonly replaced items are stocked by your local distributor and will be sent out when your order is received. Other parts will be ordered, by your distributor, from Henny Penny Corporation.

2-6. WARRANTY

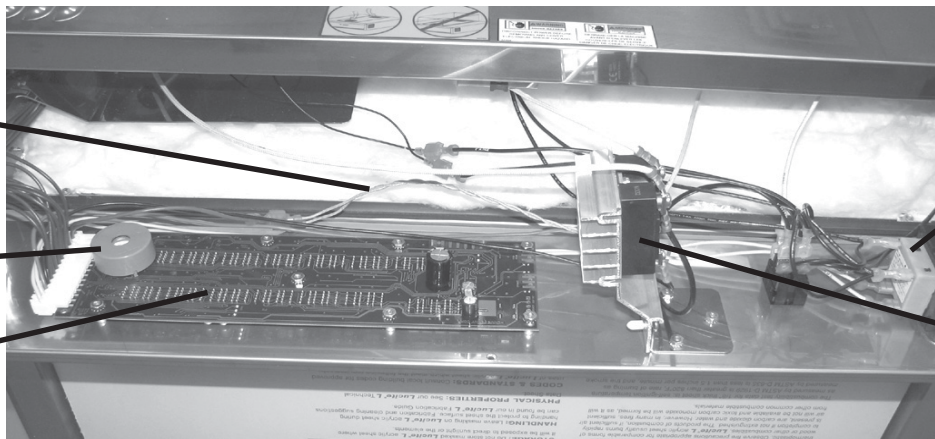
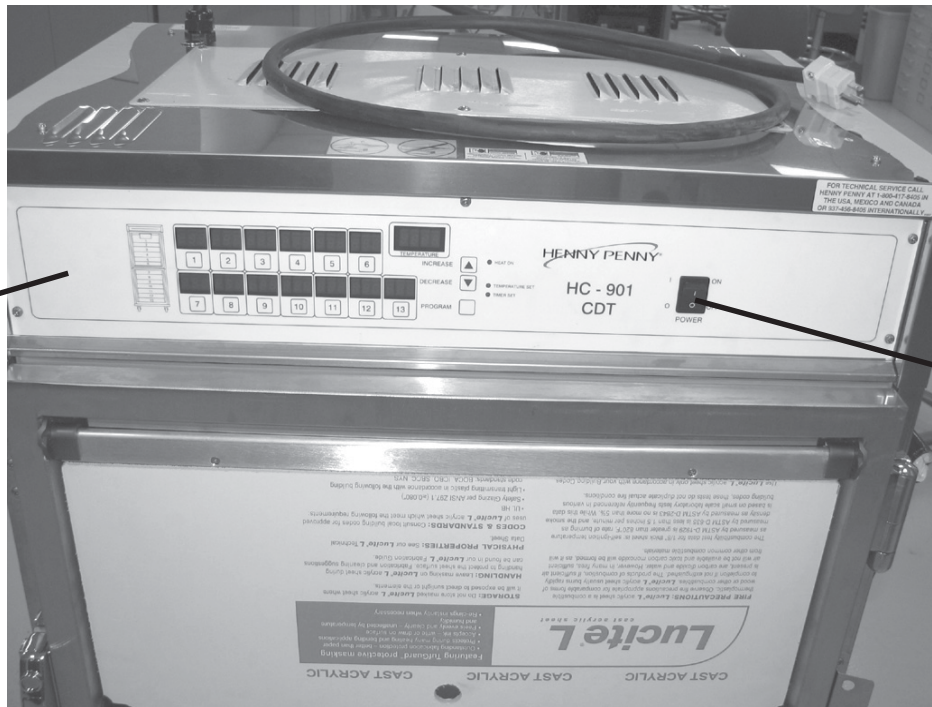
All replacement parts (except lamps and fuses) are warranted for 90 days against manufacturing defects and workmanship. If damage occurs during shipping, notify the carrier at once so that a claim may be properly filed. Refer to warranty in the front of the manual for other rights and limitations.

**2-7. 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.

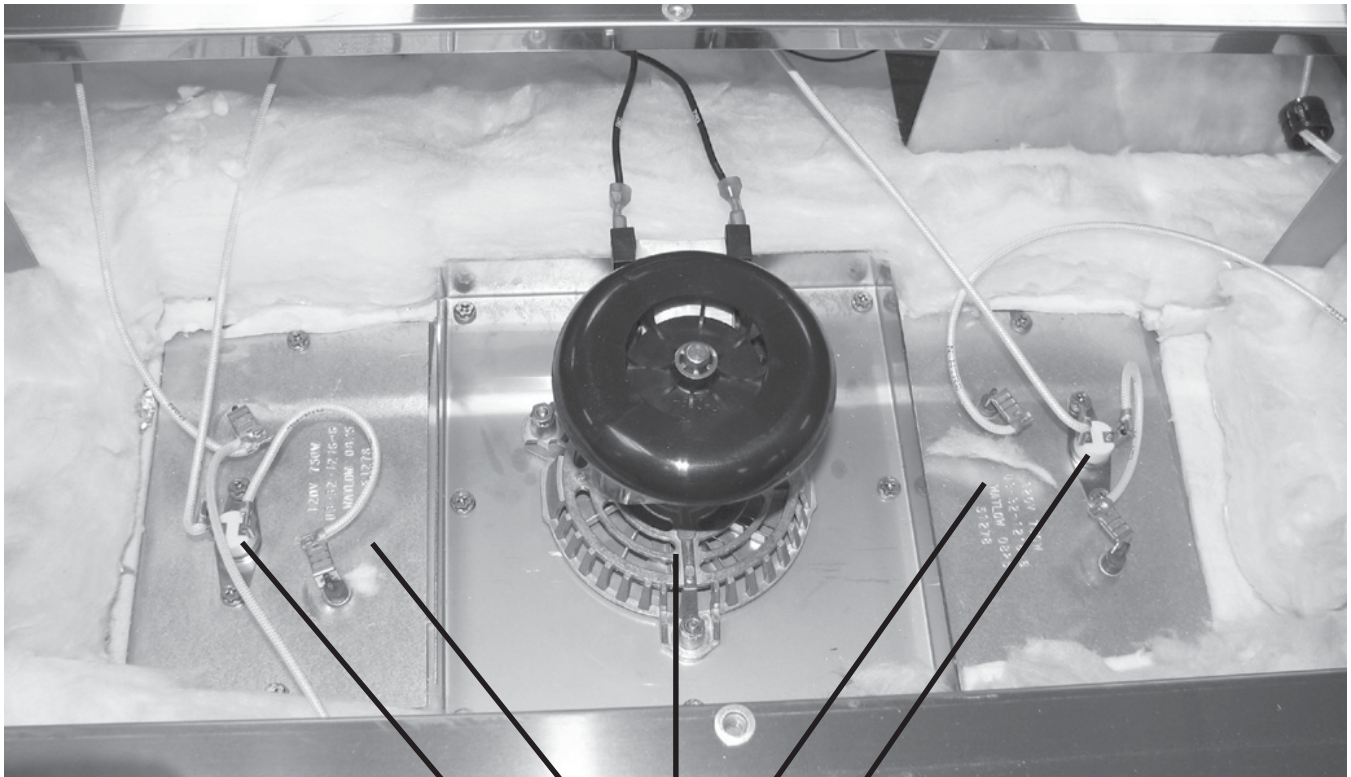


Item No.	Part No.	Description	Quantity
1	67472	ASSY-POWER CORD 120/20A STR	1
2	79906	DECAL-REAR CONT 13CDT 901	1
2	81963	DECAL-REAR CONTROL 6CDT 904	1
3*	77741	ASSY-DOOR RH SS 2B HC901/904	AR
3*	83742	ASSY-DOOR LH SS 2B HC901/904	AR
3	81927	ASSY-DOOR FLIP LH HC904	AR
3	79997	ASSY-DOOR FLIP RH HC904	AR
3	81921	ASSY-DOOR FLIP LH HC901	AR
3	77742	ASSY-DOOR FLIP RH HC901	AR
√ 4	77789-001	PANEL-FLIP DOOR 7.610 HGT MIDDLE - 901	AR
√ 4	77789-004	PANEL-FLIP DOOR 11.875 HGT TOP - 904	AR
√ 4*	77789-002	PANEL-FLIP DOOR 8.062 HGT TOP- 901	AR
√ 5	77789-003	PANEL-FLIP DOOR 7.485 HGT BOT - 901	AR
√ 5	77789-005	PANEL-FLIP DOOR 11.875 HGT BOT - 904	AR
√ 6	14272	KIT - LATCH	1/DOOR
√ 7	14271	KIT - HINGE	2/DOOR
8	27149	STOP – DOOR	AR
9	81258	ASSY-LEG 4 INCH	4
9	26120	26120 FOOT – ADJUSTABLE	4
9*	27154	CASTER - 5 IN. - LOCKING	4
9*	27155	CASTER - 5 IN.	4
√ 10	80002	SEAL-DOOR FLIP HC901/904	1/DOOR
√ 11	81310	DISPLAY - HC90X REAR 13 CDT	1
√ 11	83818	DISPLAY - HC90X REAR 6 CDT	1
12*	67794	ASSY-FLIP SHELF	1



Item No.	Part No.	Description	Quantity
1	79500	DECAL- CONTROL PANEL 13CDT 901	1
1	81960	DECAL- CONTROL PANEL 6CDT 904	1
1*	77755	DECAL- CONTROL PANEL - SIMPLE	1
√ 2	72277	SWITCH - POWER - SPLASH PROOF	1
√ 3	29523	ASSEMBLY - RTD PROBE	1
√ 4	ME70-001	BUZZER - PIEZO	1
√ 5	83758	CONTROL - 90X - 13 CDT SINGLE BOARD	1
√ 5	83759	CONTROL - 90X - 6 CDT SINGLE BOARD	1
√ 6	40645	RELAY - 25A - SOLID STATE	1
√ 7	30978	TRANSFORMER - 120VP-12VS-20VA	1

*not shown



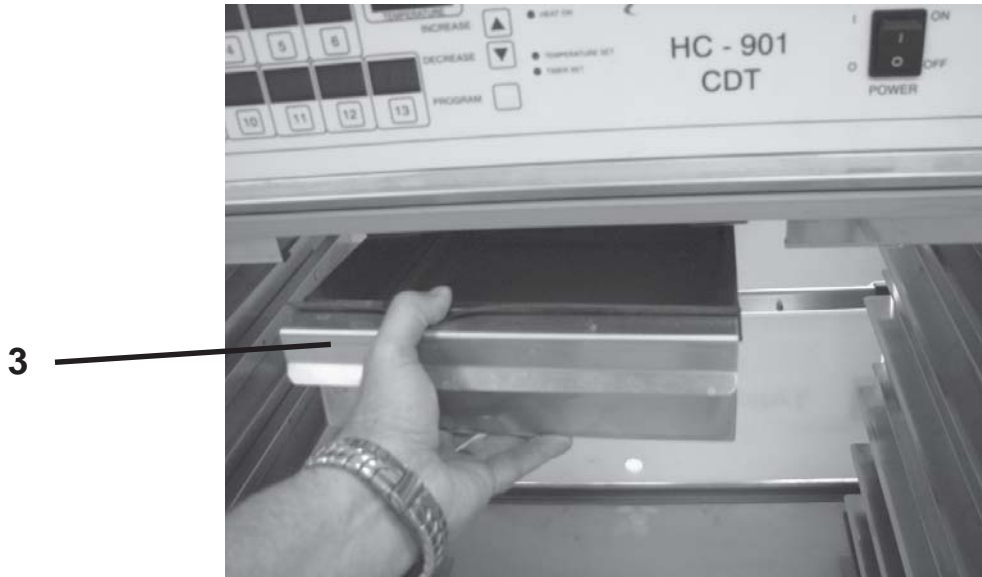
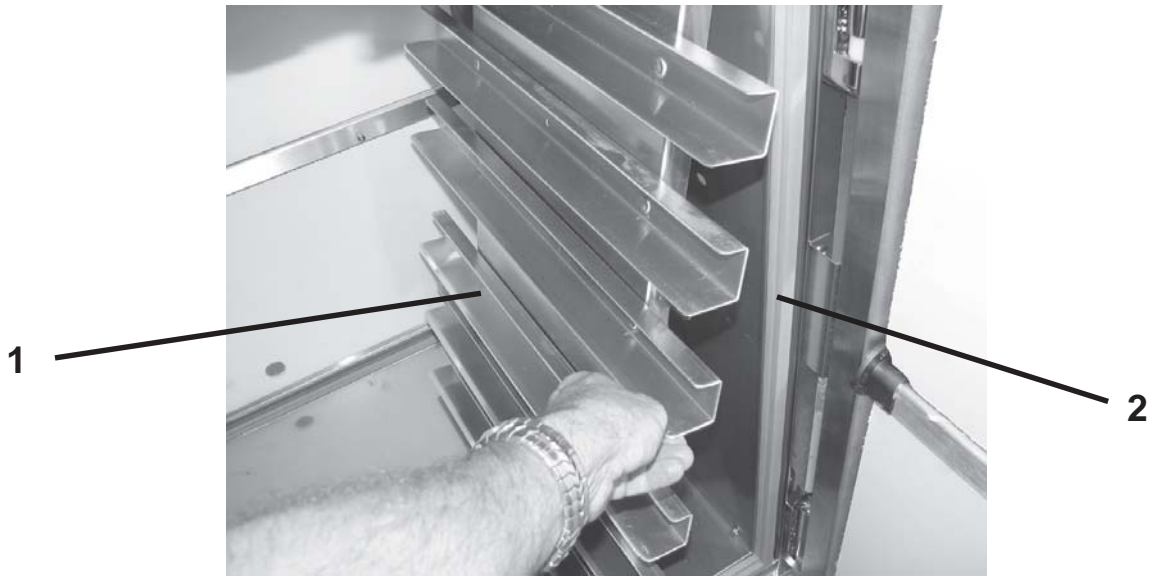
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2

3

Item No.	Part No.	Description	Quantity
√ 1	63363	BLOWER - MOTOR - 120V	1
√ 2	51278	HEATER - COIL - 750W - 120V	1
√ 3	18201	SENSOR - HIGHT LIMIT - 335 DEG	1
4*	63360	FAN BLADE	1

*not shown



Item No.	Part No.	Description	Quantity
1	77774	ASSY - AIR DUCT - LOWER - 901	2
1	77776	ASSY - AIR DUCT - UPPER - 901	2
1	80044	ASSY - AIR DUCT - 904	2
2	77768	GASKET - DOOR - 901/904	1/DOOR
3	71478	WATER BOX ASSEMBLY	1
	70381	WATER BOX & STUD ASSY	1
	25646	WIPER	1
	25685	PULL	1
	LW02-005	LOCKWASHER - INTERNAL #10	2
	NS03-030	NUT - ACORN #10-32	2