

ALTO SHAAM®

OPERATION and CARE MANUAL



HEATED DISPLAY CASE

MODELS: **HN-72**
 HNSYS-72
 HN-72/P
 HNSYS-72/P
 HN-72/PL
 HNSYS-72/PL
 HN-72/PR
 HNSYS-72/PR

HALO  **HEAT COOK/HOLD/SERVE SYSTEMS**



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ALTO-SHAAM® HEATED DISPLAY CASES

UNPACKING and SET-UP

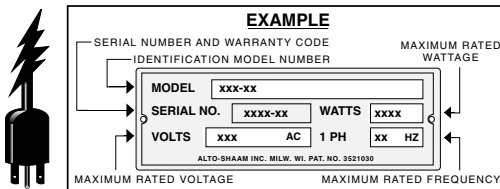
The Alto-Shaam Hot Display Case has been thoroughly tested, checked for calibration, and inspected to insure only the highest quality display case is provided. When you receive your cabinet, check for any possible shipping damage and report it at once to the delivering carrier. See *Transportation Damage and Claims* section located in this manual.

In order to maintain established National Sanitation Foundation standards, all stationary floor models must be sealed to the floor with a R.T.V. or silastic meeting N.S.F. requirements or have 6" (153mm) unobstructed clearance beneath the unit. Counter and table units must be mounted on legs of a sufficient 4" (102mm) height to provide minimum unobstructed space beneath the unit. These legs are supplied with the unit. Warranty will become null and void if these directions are not followed. Save all the information and instructions packed inside the deli case. Complete and return the warranty card to the factory as soon as possible to assure prompt service in the event of a warranty parts and labor claim.

NOTE: Any and all claims for warranty must include the full model number and serial number of the unit.

ELECTRICAL INSTALLATION

1. An identification tag is permanently mounted on case.



2. A proper receptacle or outlet configuration or permanent wiring for this unit must be installed by a licensed electrician in accordance with applicable, local electrical codes.
3. Plug the case into a properly grounded receptacle only, positioning the unit so that the power cord is easily accessible in case of an emergency. Arcing will occur when connecting or disconnecting the display case unless all controls are in the OFF position.



**ENSURE POWER SOURCE
MATCHES VOLTAGE STAMPED
ON NAMEPLATE OF UNIT**

OPERATIONAL PROCEDURES

1. **DO NOT ADD WATER TO THE CASE**

Halo Heat display cases maintain a constant but gentle temperature and eliminate much of the moisture loss associated with conventional display cases. Because of this gentle heat, it is not necessary to add water to the deli case. As a matter of fact, **adding water is not recommended** since water will accelerate the deterioration of the product, and may damage the case.

2. **PLACE DIVIDERS and SERVING PANS IN CASE**

Refer to the pan layout diagrams for different types of pan accommodations. A complete pan configuration layout is located in this manual. It is very important to

note, no matter what type of pan configuration you choose, pan separator bars or divider bars must be used to close all gaps between pans, and all gaps between the pans and the edges of the display case. If these gaps are not closed, most of the heat will be pulled out of the bottom of the case, into the display area. As a consequence, heat distribution will be uneven and uniform temperature will be difficult to hold. If needed, additional pan divider bars are available.

3. **TURN DISPLAY LIGHTS "ON" AND SET THE THERMOSTAT(s) AT NUMBER "10" TO PREHEAT**

A indicator light will illuminate when the thermostat(s) is (are) turned "ON." The indicator(s) will remain lit as long as the unit is preheating or calling for heat. The unit should be preheated, at the number 10 setting, for a minimum of twenty minutes before loading the case with food. When preheating is completed, or whenever the unit reaches any temperature set by the operator between 1 and 10, the indicator light(s) will go "OUT".

4. **LOAD HOT FOODS INTO THE UNIT**

Be certain only hot food is transferred into the display case. Before loading food into the case, use a pocket-type meat thermometer to make certain all products have reached an internal temperature of 140° to 160° F. (60° to 71°C). If any food product is not at proper serving temperature, use a Halo Heat cooking and holding oven, set at 250° to 275°F (121° to 135°C), or a Combitherm oven to bring the product within the correct temperature range.

5. **RESET THERMOSTAT AS NEEDED**

After all product is loaded into the unit and the doors are closed, reset the thermostat. For fully enclosed cases, reset the thermostat to number 8. For self-service units, maintain the thermostat at number 9 or 10. Cases with a self-service section should be set at number 9 or 10 for the self-service section only. *These settings will not necessarily be final.* Proper temperature range depends on the type of products and the quantities being held, so it is necessary to periodically use a pocket thermometer to check each item to make certain the correct temperatures are being maintained. Proper temperature range is between a minimum of 140-160°F (60°-71°C). Normally this will require a thermostat setting between 6 and 8 in fully enclosed cases. Self-service cases or sections will always require a higher setting.

6. **PLACEMENT OF FOOD PROBE (OPTIONAL)**

If the unit is equipped with the probe accessory, wipe each probe and probe tip with a disposable alcohol pad to clean and sanitize before using. If the probe is left in its bracket, the LED temperature display will indicate the ambient air temperature inside the case. To place a probe into food kept in the case, remove the probe from the bracket and push the probe tip halfway into the product, positioning the tip at the center of the food mass. If placing into solid foods such as meat roast or poultry breasts, push the probe in from a straight downward position or in from the side to the center position. If placing into a semi-liquid or liquid product, the probe cable will probably need to be secured to keep the probe positioned properly. Do not let the probe tip touch the



**DISCONNECT UNIT FROM POWER
SOURCE BEFORE
CLEANING OR SERVICING**

edges or side of the container. Tape the probe cable to the lip or edge of the container. Wipe each probe tip with a clean paper towel to remove food debris after each use. Follow by wiping probes with a disposable alcohol pad. Return each probe to the proper bracket position.

7. SERVE FRESH HOT DELI FOOD

Keep hot deli foods looking fresh. Occasionally stir or rotate foods as needed. Serve products in the proper package or container. Keep display case doors closed after serving. Wipe spills immediately to assure maximum eye appeal and ease end of the day cleanup.

CARE and CLEANING

The cleanliness and appearance of this unit will contribute considerably to operating efficiency and savory, appetizing food. Good equipment that is kept clean works better and lasts longer.



1. CLEAN THE PROBES DAILY

Remove all food soil from probes. Wipe entire probe and cable assembly with warm detergent solution and a clean cloth. Remove detergent by wiping each probe and cable with clean rinse water and a cloth. Wipe probes with disposable alcohol pad or sanitizing solution recommended for food contact surfaces. Allow probe and cable to air dry in probe holding bracket.

2. THOROUGHLY CLEAN THE UNIT DAILY

- A. Turn lights and adjustable thermostat(s) to the "OFF" position, and disconnect unit from power source.
- B. Remove, cover or wrap, and store unused products under refrigeration.

- C. Clean the interior metal surfaces of the cabinet with a damp cloth and any good alkaline or alkaline chlorinated based commercial detergent or grease solvent at the recommended strength.

Use a plastic scouring pad or oven cleaner for difficult areas. Avoid the use of abrasive cleaning compounds, chloride based cleaners, or cleaners containing quaternary salts. Rinse well to remove all residue and wipe dry.



NOTE: Never use hydrochloric acid (muriatic acid) on stainless steel.



- D. Clean the glass with a window cleaner.
- E. To help maintain the protective film coating on polished stainless steel, clean the exterior of the unit with a cleaner recommended for stainless steel surfaces. Spray the cleaning agent on a clean cloth and wipe with the grain of the stainless steel.

Always follow appropriate state or local health (hygiene) regulations regarding all applicable cleaning and sanitation requirements for equipment.



At no time should the inside or outside of the cabinet be washed down, flooded with water or liquid solution. Do not use water jet to clean. NEVER STEAM CLEAN. Severe damage or electrical hazard could result.



Disconnect Unit from Power Source Before Cleaning or Servicing.



Ensure Power Source Matches Voltage Stamped on Nameplate of Unit

Hood glass extended to the full upright position is stabilized through the use of gas struts designed for the full load bearing weight. These struts could weaken or fail due to wear, environmental conditions or aging. Operators should be aware of any decrease in effort to lift the hood and initiate an immediate gas strut safety check. **DO NOT LIFT THE HOOD IN THIS CONDITION.**

SAFETY ALERT

CAUTION

This units performance has been optimized using the factory provided bulbs. These bulbs should be replaced with an exact replacement or with a factory recommended replacement. These bulbs have been treated to resist breakage and must be replaced with similarly treated bulbs in order to maintain compliance with NSF standards.

CAUTION

SANITATION GUIDELINES

Food flavor and aroma are usually so closely related that it is difficult, if not impossible, to separate them. There is also an important, inseparable relationship between cleanliness and food flavor. Cleanliness, top operating efficiency, and appearance of equipment contribute considerably to savory, appetizing foods. Good equipment that is kept clean, works better and lasts longer.

Most food imparts its own particular aroma and many foods also absorb existing odors. Unfortunately, during this absorption, there is no distinction between *GOOD* and *BAD* odors. The majority of objectionable flavors and odors troubling food service operations are caused by bacteria growth. Sourness, rancidity, mustiness, stale or other *OFF* flavors are usually the result of germ activity.

The easiest way to insure full, natural food flavor is through comprehensive cleanliness. This means good control of both visible soil (dirt) and invisible soil (germs). A thorough approach to sanitation will provide essential cleanliness. It will assure an attractive appearance of equipment, along with maximum efficiency and utility. More importantly, a good sanitation program provides one of the key elements in the prevention of food-borne illnesses.

A controlled holding environment for prepared foods is just one of the important factors involved in the prevention of food-borne illnesses. Temperature monitoring and control during receiving, storage, preparation, and the service of foods are of equal importance.

The most accurate method of measuring safe temperatures of both hot and cold foods is by internal product thermometer. A quality thermometer is an effective tool for this purpose, and should be

routinely used on all products that require holding at a specific temperature.

A comprehensive sanitation program should focus on the training of staff in basic sanitation procedures. This includes personal hygiene, proper handling of raw foods, cooking to a safe internal product temperature, and the routine monitoring of internal temperatures from receiving through service.

Most food-borne illnesses can be prevented through proper temperature control and a comprehensive program of sanitation. Both these factors are important to build quality service as the foundation of customer satisfaction. Safe food handling practices to prevent food-borne illness is of critical importance to the health and safety of your customers. HACCP, an acronym for Hazard Analysis (at) Critical Control Points, is a quality control program of operating procedures to assure food integrity, quality, and safety. Taking steps necessary to augment food safety practices are both cost effective and relatively simple. While HACCP guidelines go far beyond the scope of this manual, additional information is available by contacting the USDA/FDA Food-borne Illness Education Information Center at (301)504-6803.

GENERAL HOLDING GUIDELINES

Chefs, cooks and other specialized food service personnel employ varied methods of cooking. Proper holding temperatures for a specific food product must be based on the moisture content of the product, product density, volume, and proper serving temperatures. Safe holding temperatures must also be correlated with palatability in determining the length of holding time for a specific product.

Halo Heat maintains the maximum amount of product moisture content without the addition of water, water vapor, or steam. Maintaining maximum natural product moisture preserves the natural flavor of the product and provides a more genuine taste. In addition to product moisture retention, the gentle properties of Halo Heat maintain a consistent temperature throughout the cabinet without the necessity of a heat distribution fan, thereby preventing further moisture loss due to evaporation.

In an enclosed holding environment, too much moisture content is a condition which can be relieved. A product achieving extremely high temperatures in preparation must be allowed to decrease in temperature before being placed in a controlled holding atmosphere. If the product is not allowed to decrease in temperature, excessive condensation will form increasing the moisture content on the outside of the product.

Most Halo Heat Holding Equipment is provided with a thermostat control between 60° and 200°F (16° to 93°C). If the unit is equipped with vents, close the vents for moist holding and open the vents for crisp holding.

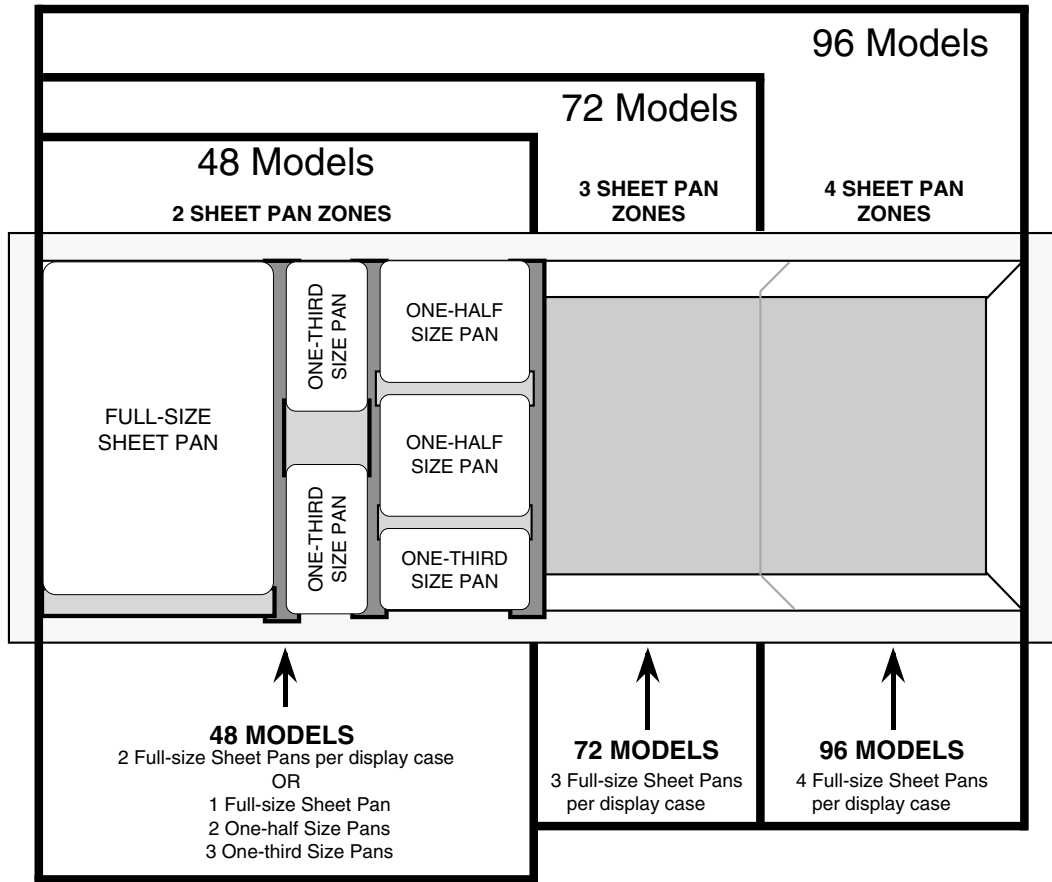
If the unit is equipped with a thermostat indicating a range of between 1 and 10, use a metal-stemmed indicating thermometer to measure the internal temperature of the product(s) being held. Adjust the thermostat setting to achieve the best overall setting based on internal product temperature.

INTERNAL FOOD PRODUCT TEMPERATURES		
HOT FOODS		
DANGER ZONE	40° TO 140°F	(4° TO 60°C)
CRITICAL ZONE	70° TO 120°F	(21° TO 49°C)
SAFE ZONE	140° TO 165°F	(60° TO 74°C)
COLD FOODS		
DANGER ZONE	ABOVE 40°F	(ABOVE 4°C)
SAFE ZONE	36°F TO 40°F	(2°C TO 4°C)
FROZEN FOODS		
DANGER ZONE	ABOVE 32°F	(ABOVE 0°C)
CRITICAL ZONE	0° TO 32°F	(-18° TO 0°C)
SAFE ZONE	0°F OR BELOW	(-18°C OR BELOW)

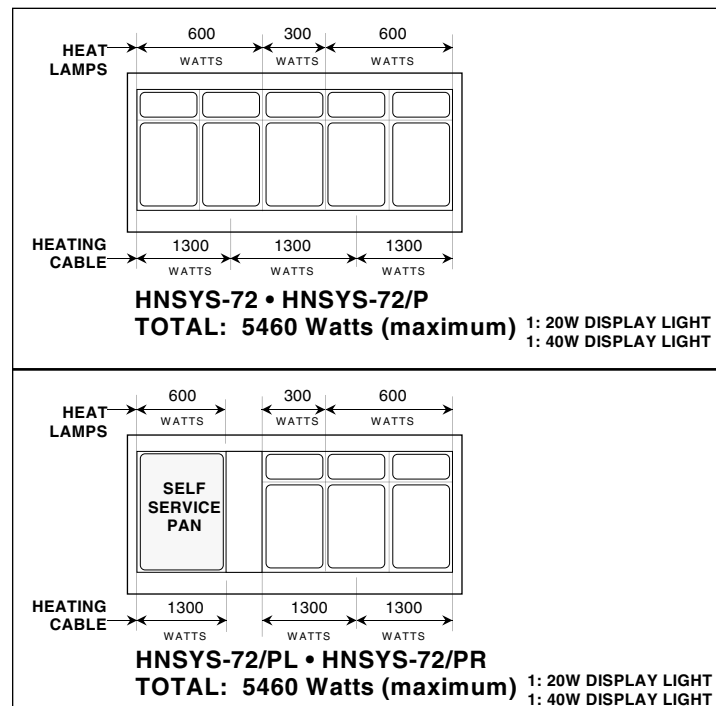
HOLDING TEMPERATURE RANGE		
MEAT	FAHRENHEIT	CELSIUS
BEEF ROAST — Rare	140°F	60°C
BEEF ROAST — Med/Well Done	160°F	71°C
BEEF BRISKET	160° — 175°F	71° — 79°C
CORN BEEF	160° — 175°F	71° — 79°C
PASTRAMI	160° — 175°F	71° — 79°C
PRIME RIB — Rare	140°F	60°C
STEAKS — Broiled/Fried	140° — 160°F	60° — 71°C
RIBS — Beef or Pork	160°F	71°C
VEAL	160° — 175°F	71° — 79°C
HAM	160° — 175°F	71° — 79°C
PORK	160° — 175°F	71° — 79°C
LAMB	160° — 175°F	71° — 79°C
POULTRY		
CHICKEN — Fried/Baked	160° — 175°F	71° — 79°C
DUCK	160° — 175°F	71° — 79°C
TURKEY	160° — 175°F	71° — 79°C
GENERAL	160° — 175°F	71° — 79°C
FISH/SEAFOOD		
FISH — Baked/Fried	160° — 175°F	71° — 79°C
LOBSTER	160° — 175°F	71° — 79°C
SHRIMP — Fried	160° — 175°F	71° — 79°C
BAKED GOODS		
BREADS/ROLLS	120° — 140°F	49° — 60°C
MISCELLANEOUS		
CASSEROLES	160° — 175°F	71° — 79°C
DOUGH — Proofing	80° — 100°F	27° — 38°C
EGGS — Fried	150° — 160°F	66° — 71°C
FROZEN ENTREES	160° — 175°F	71° — 79°C
HORS D'OEUVRES	160° — 180°F	71° — 82°C
PASTA	160° — 180°F	71° — 82°C
PIZZA	160° — 180°F	71° — 82°C
POTATOES	180°F	82°C
PLATED MEALS	180°F	82°C
SAUCES	140° — 200°F	60° — 93°C
SOUP	140° — 200°F	60° — 93°C
VEGETABLES	160° — 175°F	71° — 79°C

The holding temperatures listed are suggested guidelines only.

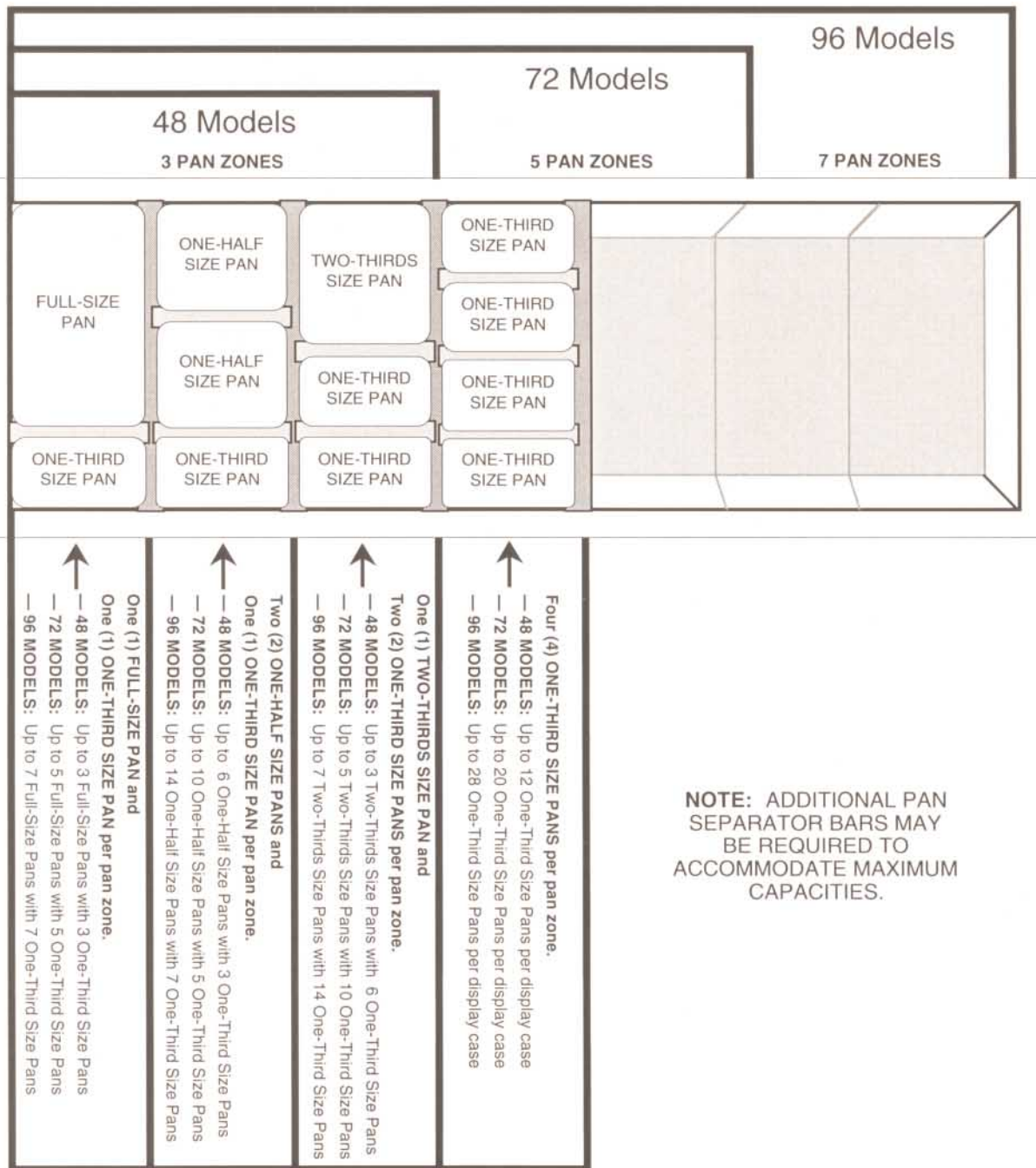
SHEET PAN CONFIGURATIONS • HOT DELI DISPLAY CASES



POWER CONFIGURATIONS



PAN CONFIGURATIONS



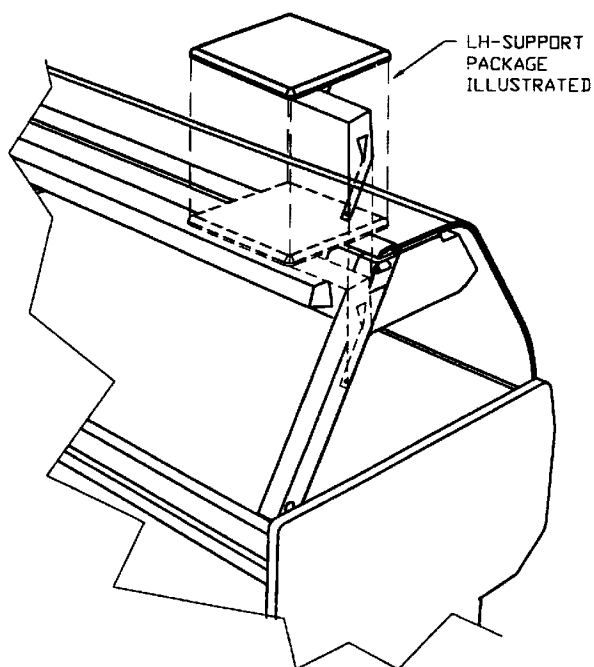
STANDARD PAN DIVIDER & SEPARATOR BARS

ITEM No.	DESCRIPTION	SIZE (W x L)	MODELS		
			48	72	96
11046	SHEET PAN DIVIDER BAR	1-3/8" x 27-13/16"	1	—	—
11047	ONE-THIRD SIZE PAN	3-1/4" x 7"	1	—	—
11317	FULL, HALF & THIRD SIZE - LONG	1" x 27-7/8"	2	4	6
11318	FULL, HALF & THIRD SIZE - SHORT	1" x 12-3/4"	9	15	21
11319	SHEET PAN DIVIDER BAR	3-1/4" x 27-3/16"	1	—	—
11320	SHEET PAN DIVIDER BAR	1-3/4" x 17-3/4"	2	3	4
11357	SHEET PAN DIVIDER BAR	5-29/32" x 27-13/16"	—	2	3
11732	SHEET PAN FILLER	3-3/4" x 27-13/16"	—	—	1
1865	GASTRONORM DIVIDER (220V)	7/8" x 27-7/8"	2	4	6

INSTALLATION INSTRUCTIONS – OPTIONAL SCALE PLATFORM

1. Disconnect the unit from the power source.
2. Lift hood glass up to access the outer top.
3. Position the platform mounting bracket in the desired location along the upper rear edge on the outer top, making sure that the bracket is tight against the bend in the top. Using the bracket as a template, mark and punch six mounting holes in the outer top. Drill these six holes with a No. 21 drill, and tap with a 10-32 UNF thread.
4. Attach the scale shelf assembly to the outer top using the six 10-32x1/2" slotted truss-head screws provided (Alto-Shaam part number SC-2661).
5. Remove the four nuts from the bottom of the platform. Mount support (bracket provided) to platform using screws as a guide. While pushing up on support, mark two mounting holes on the support.
6. Remove the support. Drill these mounting holes with a No. 21 drill and tap with a 10-32" UNF thread. Replace support and mount to unit with the two 10-32x1/2" screws provided (Alto-Shaam part number SC-2661). Replace nuts on platform bottom and tighten support to platform.
7. Apply a silicone bead to all perimeter meeting surfaces between the mounting bracket and the outer top.

NOTE: These platforms are intended for use in the CLOSED position ONLY. They slide away from the unit for cleaning. Using scales with platforms in the OUT position may result in incorrect data on scales.



The scale shelf platform can be removed from the mounting bracket assembly by removing the 10-32 screw/stop located on the bottom of the scale shelf. Removing the screw allows the shelf to be slid past, and lifted off the shelf guide pins. Failure to replace this screw prior to use could result in serious bodily injury, and/or damage to equipment.

HN-72 Series Cable Kit #4881

Cable Heating Service Kit #4881

includes:

CB-3045	Cable Heating Element	210 feet
CR-3226	Ring Connector	12
IN-3488	Insulation Corner	1 foot
BU-3105	Shoulder Bushing	12
BU-3106	Cup Bushing	12
SL-3063	Insulating Sleeve	12
TA-3540	Electrical Tape	1 roll
ST-2439	Stud, 10-32	12
NU-2215	Hex Nut	24
BX-2588	Cable Box	1

HN-72 Series Options & Accessories

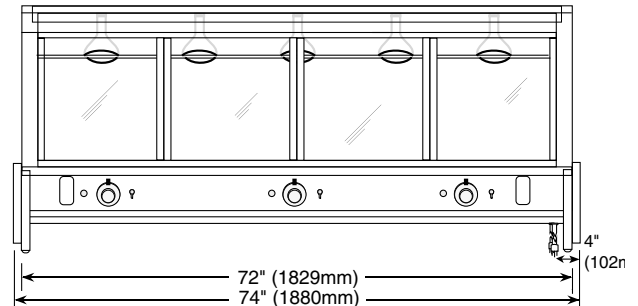
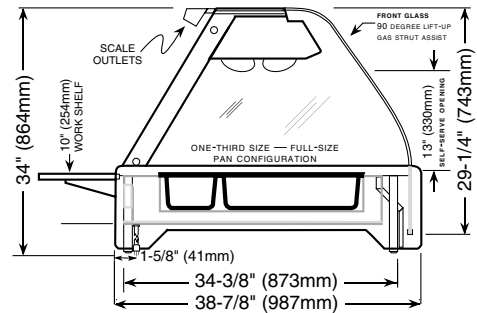
Bulbs

➔100 Watt, 130V	LP-33253
➔100 Watt, 230-250V	LP-3384
Carving Station, Single Well	55299
Custom Panel, End Panel and Bumper Colors	FACTORY QUOTE
Dual Case Trim Kit	
➔HN, HNSYS-48	4584
➔HN, HNSYS-48/P	14136
➔Tempered Divider Glass	GL-22598
End Panel, Black Laminate (HNSYS ONLY)	PE-22709
End Panel, Kiosk Assembly Kit (HN ONLY)	14599
Independent Circuit Cordset Pkg*: HN (120/208-240 ONLY)	14221
Independent Load Center Pkg*: HNSYS (120/208-240 ONLY)	14220

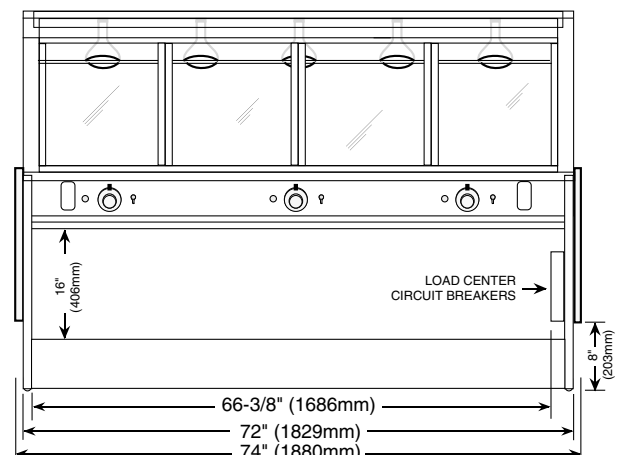
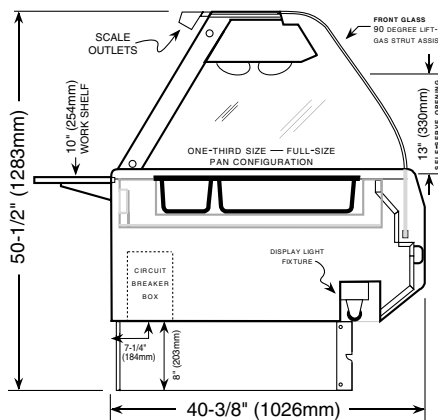
*NOT CSA APPROVED

Interior Ambient Temperature Gauge	GU-33384
Menu Board System (one required)	MB-23092
Pocket Thermometer, °F	TH-3300
Pocket Thermometer, °C	TH-3412
Product Temperature Probe Package (120/208-240V ONLY)	5295
Reflective Tempered Glass Case End Panes, Bronze	
➔RIGHT-HAND	GL-22602
➔LEFT-HAND	GL-22601
Scale Platform Package (120/208-240V ONLY)	

➔RIGHT-HAND	14547
➔LEFT-HAND	14548
Timer Bar (electronic)	55194
➔Probe Assembly, for 4 ft. Timer Bar	44084
Work Surface, Stainless Steel	FACTORY QUOTE
Pan Divider Bars for HNSYS-72/PR or PL	
➔FULL/HALF/THIRD SIZE (LONG BAR)	4 11317
➔FULL/HALF/THIRD SIZE (SHORT BAR)	15 11318
➔SHEET PAN	3 11320
➔S-PAN DIVIDER (LONG)	2 11357
➔PAN GRID	1 PN-2115
➔SELF-SERVE PAN	1 1405
➔SHELF	1 1407
➔SHEET PAN FILLER BAR: 3-3/4" (95mm)	1 11732



EXTERIOR DIMENSIONS



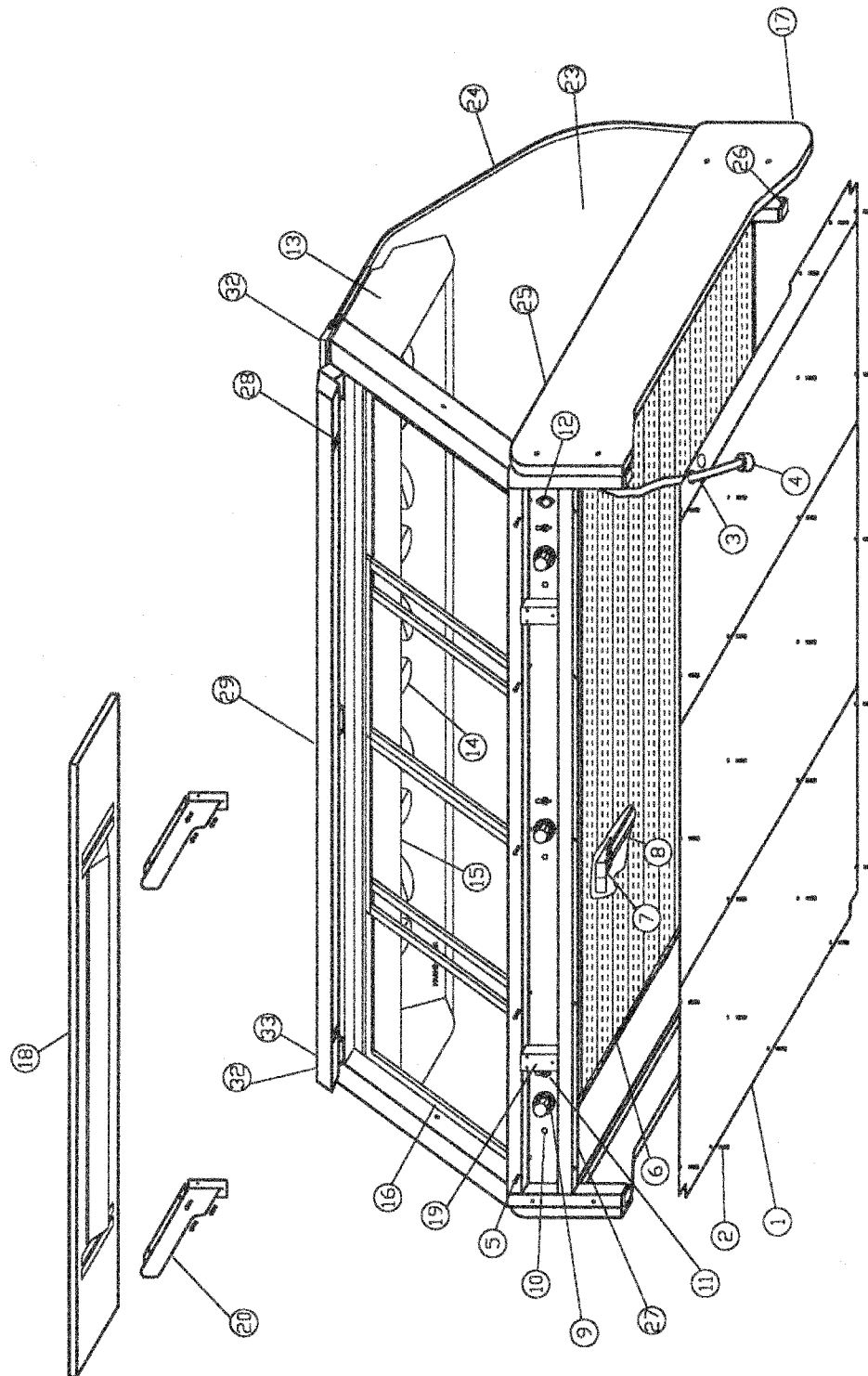
HN-72				HNSYS-72			
12/22/00		ALTO-SHAAM		12/22/00		ALTO-SHAAM	
PART DESCRIPTION	QTY	PART NO.		PART DESCRIPTION	QTY	PART NO.	
1. BOTTOM END PANEL	1	13028		1. BOTTOM END PANEL	1	13028	
BOTTOM RIGHT-HAND PANEL, 4'	1	13029		BOTTOM RIGHT-HAND PANEL, 4'	1	13029	
BOTTOM LEFT-HAND PANEL, 4'	1	13030		BOTTOM LEFT-HAND PANEL, 4'	1	13030	
BOTTOM PANEL, 6'	1	13031		BOTTOM PANEL, 6'	1	13031	
SCREWS, 8-32X1/2"	25	SC-2425		SCREWS, 8-32X1/2"	25	SC-2425	
SCREWS, 8-32X1/4"	2	SC-2459		SCREWS, 8-32X1/4"	2	SC-2459	
3. CORD: 6' (1829mm)	1	CD-3557		3. CONTROL PANEL MOUNTING SCREWS	5	SC-2459	
4. PLUG	1	PG-3267		4. CONDUIT TUBING: 6" (152mm)	2	TU-3874	
5. CONTROL PANEL MOUNTING SCREWS	5	SC-2459		5. INSULATION: 34" x 71" (864mm x 1803mm)	2	IN-22364	
6. INSULATION: 34" x 71" (864mm x 1803mm)	2	IN-22364		6. CABLE CONNECTION HARDWARE:			
7. CABLE CONNECTION HARDWARE				7. HEATING CABLE: 205' (62484mm)	1	CB-3045	
8. HEATING CABLE: 205' (62484mm)	1	CB-3045		8. THERMOSTAT	3	TT-3498	
9. THERMOSTAT	3	TT-3498		THERMOSTAT KNOB	3	KN-3473	
THERMOSTAT KNOB	3	KN-3473		9. INDICATOR LIGHT	3	LI-3025	
10. INDICATOR LIGHT	3	LI-3025		10. BULB SWITCH	3	SW-3616	
11. BULB SWITCH	3	SW-3616		11. INNER TOP SPOT	1	4681	
12. FUSEHOLDER (120V UNITS), INCLUDES	1	FU-33041		12. BULBS	10	LP-33592	
— FUSE, 15 AMP	1	FU-3775		13. BULB SOCKET	10	RP-3952	
— FUSEHOLDER MTG SCREWS	2	SC-2077		14. 4' DISPLAY LIGHT BULB	1	LP-3376	
13. INNER TOP SPOT	1	4681		4' DISPLAY LAMP SHIELD	1	LP-3967	
14. BULBS	10	LP-33592		2' DISPLAY LIGHT BULB	1	LP-3975	
15. BULB SOCKETS	10	RP-3952		2' DISPLAY LAMP SHIELD	1	LP-3969	
16. DOOR ASSEMBLY, INCLUDES	1	DR-22481		4' DISPLAY LIGHT FIXTURE	1	LP-3966	
— LEFT-HAND GLASS DOOR - IN	1	DR-22481A		2' DISPLAY LIGHT FIXTURE	1	LP-3968	
— RIGHT-HAND GLASS DOOR - IN	1	DR-22481B		1/4 - 20 X 1/2" SLOT RD SCREW	4	SC-2332	
— TOP TRACK	1	TK-23749		1/4 - 20 HEX NUT	4	NU-2437	
— BOTTOM TRACK	1	TK-24266		1/4" SPLIT RING LOCKWASHER	4	WS-2294	
— CENTER GLASS - OUT	2	DR-22481E		3/8" 90 DEGREE CONNECTOR	2	CR-3292	
— GUIDES #44049	16	DR-22480F		CONDUIT TUBING: 6' (1829mm)	1	TU-3976	
— DOOR BUMPER ASSEMBLY	1	DR-22480G		15. CIRCUIT BOX (120V), INCLUDES	1	CI-3906	
17. END PANEL	2	PE-22685		— BREAKER, 20 AMP	2	CI-3907	
18. CUTTING BOARD ASSEMBLY	1	4017		— BREAKER, 15 AMP	2	CI-33071	
19. CUTTING BOARD BRACKET (BASE)	2	12069		— GROUND BAR KIT	1	CI-3878	
CUTTING BOARD BRACKET MTG. SCREWS	6	SC-24520		16. DOOR ASSEMBLY, INCLUDES	1	DR-22481	
20. CUTTING BOARD BRACKET	2	BT-2342		— LEFT-HAND GLASS DOOR - IN	1	DR-22481A	
23. END GLASS	2	GL-22597		— RIGHT-HAND GLASS DOOR - IN	1	DR-22481B	
END GLASS GASKET, 5' (1524mm)	1	GS-22547		— TOP TRACK	1	TK-23749	
24. FRONT GLASS	1	GL-22596		— BOTTOM TRACK	1	TK-24266	
25. PAN DIVIDER BARS (NOT SHOWN)				— CENTER GLASS - OUT	2	DR-22481E	
FULL/HALF/THIRD (LONG BAR)	4	11317		— GUIDES #44049	16	DR-22480F	
FULL/HALF/THIRD (SHORT BAR)	15	11318		— DOOR BUMPER ASSEMBLY	2	DR-22480G	
SHEET PAN	3	11320		17. END PANEL	2	PE-22639	
S-PAN DIVIDER (LONG)	2	11357		18. CUTTING BOARD ASSEMBLY	1	4017	
26. ADJUSTABLE LEGS	4	LG-22686		19. CUTTING BOARD BRACKET (BASE)	2	12069	
27. TERMINAL BLOCK, 4 POS	2	BK-3597		CUTTING BOARD BRACKET MTG. SCREWS	6	SC-24520	
28. SNAP-IN RECEPTACLES (120V)	2	RP-3396		20. CUTTING BOARD BRACKET	2	BT-2342	
RECEPTACLE FUSE, 15 AMP (120V)	1	FU-33351		23. END GLASS	2	GL-22597	
RECEPTACLE FUSEHOLDER, 15 AMP, (120V)	1	FU-33352		END GLASS GASKET, 5' (1524mm)	1	GS-22547	
29. OUTLET HOUSING COVER	1	4980		24. FRONT GLASS	1	GL-22596	
30. 6' (1829mm) PROBE PKG OPT (120V) (NOT SHOWN)	1	5296		25. BASE BOTTOM	1	12563	
31. IND.CIRCUIT CORDSET PKG. OPTION (120V)*	1	14221		26. PAN DIVIDER BARS (NOT SHOWN)			
32. FRONT GLASS STRUT	2	SU-2870		FULL/HALF/THIRD (LONG BAR)	4	11317	
33. FRONT GLASS STRUT	1	SU-22704		FULL/HALF/THIRD (SHORT BAR)	15	11318	
				SHEET PAN	3	11320	
				S-PAN DIVIDER (LONG)	2	11357	
				27. OUTLET HOUSING COVER	1	4980	
				28. SNAP-IN RECEPTACLES (120V)	2	RP-3396	
				29. RECEPTACLE FUSE, 15 AMP (120V)	1	FU-33351	
				RECEPTACLE FUSEHOLDER, 15 AMP (120V)	1	FU-33352	
				30. 6' (1829mm) PROBE PKG OPT (120V) (NOT SHOWN)	1	5296	
				31. LOAD CENTER OPTION (120V) (NOT SHOWN)	1	14220	
				32. FRONT GLASS STRUT	2	SU-2870	
				33. FRONT GLASS STRUT	1	SU-22704	
				34. SNAP-IN BUMPER (NOT SHOWN)	1	11750	
*NOT CSA APPROVED							

HN-72/P • Pass-thru				HNSYS-72/P • Pass-thru			
12/22/00		ALTO-SHAAM		12/22/00		ALTO-SHAAM	
PART DESCRIPTION		QTY	PART NO.	PART DESCRIPTION		QTY	PART NO.
1. BOTTOM END PANEL		1	13028	1. BOTTOM END PANEL		1	13028
BOTTOM RIGHT-HAND PANEL, 4'		1	13029	BOTTOM RIGHT-HAND PANEL, 4'		1	13029
BOTTOM LEFT-HAND PANEL, 4'		1	13030	BOTTOM LEFT-HAND PANEL, 4'		1	13030
BOTTOM PANEL, 6'		1	13031	BOTTOM PANEL, 6'		1	13031
SCREWS, 8-32X1/2"		25	SC-2425	SCREWS, 8-32X1/2"		25	SC-2425
SCREWS, 8-32X1/4"		2	SC-2459	SCREWS, 8-32X1/4"		2	SC-2459
3. CORD: 6' (1829mm)		1	CD-3557	3. CONTROL PANEL MOUNTING SCREWS		5	SC-2459
4. PLUG		1	PG-3267	4. CONDUIT TUBING: 6" (152mm)		2	TU-3874
5. CONTROL PANEL MOUNTING SCREWS		5	SC-2459	5. INSULATION: 34" x 71" (864mm x 1803mm)		2	IN-22364
6. INSULATION: 34" x 71" (864mm x 1803mm)		2	IN-22364	6. CABLE CONNECTION HARDWARE			
7. CABLE CONNECTION HARDWARE				7. HEATING CABLE: 205' (62484mm)		1	CB-3045
8. HEATING CABLE: 205' (62484mm)		1	CB-3045	8. THERMOSTAT		3	TT-3498
9. THERMOSTAT		3	TT-3498	THERMOSTAT KNOB		3	KN-3473
THERMOSTAT KNOB		3	KN-3473	9. INDICATOR LIGHT		3	LI-3025
10. INDICATOR LIGHT		3	LI-3025	10. BULB SWITCH		3	SW-3616
11. BULB SWITCH		3	SW-3616	11. INNER TOP SPOT		1	4681
12. FUSEHOLDER (120V UNITS) INCLUDES		1	FU-33041	12. BULBS		10	LP-33592
FUSE, 15 AMP		1	FU-3775	13. BULB SOCKET		10	RP-3952
FUSEHOLDER MTG SCREWS		2	SC-2077	14. 4' DISPLAY LIGHT BULB		1	LP-3376
13. INNER TOP SPOT		1	4681	4' DISPLAY LAMP SHIELD		1	LP-3967
14. BULBS		10	LP-33592	2' DISPLAY LIGHT BULB		1	LP-3975
15. BULB SOCKETS		10	RP-3952	2' DISPLAY LAMP SHIELD		1	LP-3969
16. DOOR ASSEMBLY, INCLUDES		1	DR-22481	4' DISPLAY LIGHT FIXTURE		1	LP-3966
— LEFT-HAND GLASS DOOR - IN		1	DR-22481A	2' DISPLAY LIGHT FIXTURE		1	LP-3968
— RIGHT-HAND GLASS DOOR - IN		1	DR-22481B	1/4 - 20 X 1/2" SLOT RD SCREW		4	SC-2332
— TOP TRACK		1	TK-23749	1/4 - 20 HEX NUT		4	NU-2437
— BOTTOM TRACK		1	TK-24266	1/4" SPLIT RING LOCKWASHER		4	WS-2294
— CENTER GLASS - OUT		2	DR-22481E	3/8" 90 DEGREE CONNECTOR		2	CR-3292
— GUIDES #44049		16	DR-22480F	CONDUIT TUBING: 6' (1829mm)		1	TU-3976
— DOOR BUMPER ASSEMBLY		2	DR-22480G	15. CIRCUIT BOX (120V), INCLUDES		1	CI-3906
17. END PANEL		2	PE-22685	— BREAKER, 20 AMP		2	CI-3907
18. CUTTING BOARD ASSEMBLY		1	4017	— BREAKER, 15 AMP		2	CI-33071
19. CUTTING BOARD BRACKET (BASE)		2	12069	— GROUND BAR KIT		1	CI-3878
CUTTING BOARD BRACKET MTG. SCREWS		6	SC-24520	16. DOOR ASSEMBLY, INCLUDES		1	DR-22481
20. CUTTING BOARD BRACKET		2	BT-2342	— LEFT-HAND GLASS DOOR - IN		1	DR-22481A
23. END GLASS		2	GL-22597	— RIGHT-HAND GLASS DOOR - IN		1	DR-22481B
END GLASS GASKET, 5' (1524mm)		1	GS-22547	— TOP TRACK		1	TK-23749
24. FRONT GLASS		1	GL-22594	— BOTTOM TRACK		1	TK-24266
25. CUSTOMER GUARD: 6' (1829mm)		1	11116	— CENTER GLASS - OUT		2	DR-22481E
SPACER		1	SP-24589	— GUIDES #44049		16	DR-22480F
SCREWS		2	SC-2073	— DOOR BUMPER ASSEMBLY		1	DR-22480G
26. PANS (NOT SHOWN)				17. END PANEL		2	PE-22639
SELF-SERVE PAN		1	11626	18. CUTTING BOARD ASSEMBLY		1	4017
SELF-SERVE PAN GRID		3	PN-22048	19. CUTTING BOARD BRACKET (BASE)		2	12069
27. ADJUSTABLE LEGS		4	LG-22686	CUTTING BOARD BRACKET MTG. SCREWS		6	SC-24520
28. TERMINAL BLOCK, 4 POS		2	BK-3597	20. CUTTING BOARD BRACKET		2	BT-2342
29. SNAP-IN RECEPTACLES (120V)		2	RP-3396	23. END GLASS		2	GL-22597
RECEPTACLE FUSE, 15 AMP (120V)		1	FU-33351	END GLASS GASKET, 5' (1524mm)		1	GS-22547
RECEPTACLE FUSEHOLDER, 15 AMP (120V)		1	FU-33352	24. FRONT GLASS		1	GL-22594
30. OUTLET HOUSING COVER		1	4980	25. CUSTOMER GUARD: 6' (1829mm)		1	11116
31. 6' (1829mm) PROBE PKG OPT (120V)(NOT SHOWN)		1	5296	SPACER		1	SP-24589
32. IND.CIRCUIT CORDSET PKG. OPTION (120V)*		1	14221	SCREWS		2	SP-2073
33. FRONT GLASS STRUT		2	SU-22431	26. BASE BOTTOM		1	12563
*NOT CSA APPROVED				27. PANS (NOT SHOWN)			
				SELF-SERVE PAN		1	11626
				SELF-SERVE PAN GRID		3	PN-22048
				28. SNAP-IN RECEPTACLES		2	RP-3396
				29. OUTLET HOUSING COVER		1	4980
				30. RECEPTACLE FUSE, 15 AMP (120V)		1	FU-33351
				RECEPTACLE FUSEHOLDER, 15 AMP (120V)		1	FU-33352
				31. 6' (1829mm) PROBE PKG OPT (120V) (NOT SHOWN)		1	5296
				32. LOAD CENTER PACKAGE OPT (120V)(NOT SHOWN)		1	14220
				33. FRONT GLASS STRUT		2	SU-22431
				34. SNAP-IN BUMPER		1	11750

HNSYS-72/PL • Pass-thru Left				HNSYS-72/PR • Pass-thru Right			
12/22/00		ALTO-SHAAM		12/22/00		ALTO-SHAAM	
PART DESCRIPTION		QTY	PART NO.	PART DESCRIPTION		QTY	PART NO.
1. BOTTOM END PANEL		1	13028	1. BOTTOM END PANEL		1	13028
BOTTOM RIGHT-HAND PANEL, 4'		1	13029	BOTTOM RIGHT-HAND PANEL, 4'		1	13029
BOTTOM LEFT-HAND PANEL, 4'		1	13030	BOTTOM LEFT-HAND PANEL, 4'		1	13030
BOTTOM PANEL, 6'		1	13031	BOTTOM PANEL, 6'		1	13031
SCREWS, 8-32X1/2"		25	SC-2425	SCREWS, 8-32X1/2"		25	SC-2425
SCREWS, 8-32X1/4"		2	SC-2459	SCREWS, 8-32X1/4"		2	SC-2459
3. CONTROL PANEL MOUNTING SCREWS		5	SC-2459	3. CONTROL PANEL MOUNTING SCREWS		5	SC-2459
4. CONDUIT TUBING: 6" (152mm)		2	TU-3874	4. CONDUIT TUBING: 6" (152mm)		2	TU-3874
5. INSULATION: 34" x 71" (864mm x 1803mm)		2	IN-22364	5. INSULATION: 34" x 71" (864mm x 1803mm)		2	IN-22364
6. CABLE CONNECTION HARDWARE				6. CABLE CONNECTION HARDWARE			
7. HEATING CABLE: 66' (20117mm)		1	CB-3045	7. HEATING CABLE: 66' (20117mm)		1	CB-3045
HEATING CABLE: 132' (40234mm)		1	CB-3045	HEATING CABLE: 132' (40234mm)		1	CB-3045
8. THERMOSTAT		3	TT-3498	8. THERMOSTAT		3	TT-3498
THERMOSTAT KNOB		3	KN-3473	THERMOSTAT KNOB		3	KN-3473
9. INDICATOR LIGHT		3	LI-3025	9. INDICATOR LIGHT		3	LI-3025
10. BULB SWITCH		3	SW-3616	10. BULB SWITCH		3	SW-3616
11. 2' INNER TOP SPOT		1	4687	11. 2' INNER TOP SPOT		1	4687
4' INNER TOP SPOT		1	4674	4' INNER TOP SPOT		1	4674
12. BULB		10	LP-33592	12. BULB		10	LP-33592
13. BULB SOCKET		10	RP-3952	13. BULB SOCKET		10	RP-3952
14. 4' DISPLAY LIGHT BULB		1	LP-3376	14. 4' DISPLAY LIGHT BULB		1	LP-3376
4' DISPLAY LAMP SHIELD		1	LP-3967	4' DISPLAY LAMP SHIELD		1	LP-3967
2' DISPLAY LIGHT BULB		1	LP-3975	2' DISPLAY LIGHT BULB		1	LP-3975
2' DISPLAY LAMP SHIELD		1	LP-3969	2' DISPLAY LAMP SHIELD		1	LP-3969
4' DISPLAY LIGHT FIXTURE		1	LP-3966	4' DISPLAY LIGHT FIXTURE		1	LP-3966
2' DISPLAY LIGHT FIXTURE		1	LP-3968	2' DISPLAY LIGHT FIXTURE		1	LP-3968
1/4 - 20 X 1/2" SLOT RD SCREW		4	SC-2332	1/4 - 20 X 1/2" SLOT RD SCREW		4	SC-2332
1/4 - 20 HEX NUT		4	NU-2437	1/4 - 20 HEX NUT		4	NU-2437
1/4" SPLIT RING LOCKWASHER		4	WS-2294	1/4" SPLIT RING LOCKWASHER		4	WS-2294
3/8" 90 DEGREE CONNECTOR		2	CR-3292	3/8" 90 DEGREE CONNECTOR		2	CR-3292
CONDUIT TUBING: 6' (1829mm)		1	TU-3976	CONDUIT TUBING: 6' (1829mm)		1	TU-3976
15. CIRCUIT BOX (120V), INCLUDES		1	CI-3906	15. CIRCUIT BOX (120V), INCLUDES		1	CI-3906
— BREAKER, 20 AMP		3	CI-3907	— BREAKER, 20 AMP		3	CI-3907
— BREAKER, 15 AMP		2	CI-33071	— BREAKER, 15 AMP		2	CI-33071
— GROUND BAR KIT		1	CI-3878	— GROUND BAR KIT		1	CI-3878
16. DOOR ASSEMBLY, INCLUDES		1	DR-22480	16. DOOR ASSEMBLY, INCLUDES		1	DR-22480
— LEFT-HAND GLASS DOOR		1	DR-22480A	— LEFT-HAND GLASS DOOR		1	DR-22480A
— RIGHT-HAND GLASS DOOR		1	DR-22480B	— RIGHT-HAND GLASS DOOR		1	DR-22480B
— TOP TRACK		1	TK-23748	— TOP TRACK		1	TK-23748
— BOTTOM TRACK		1	TK-24265	— BOTTOM TRACK		1	TK-24265
— GUIDES #44049		8	DR-22480F	— GUIDES #44049		8	DR-22480F
— DOOR BUMPER ASSEMBLY		2	DR-2480G	— DOOR BUMPER ASSEMBLY		2	DR-2480G
17. SELF-SERVE DOOR, LEFT-HAND		1	4407	17. SELF-SERVE DOOR, LEFT-HAND		1	4407
HINGE, LEFT-HAND to unit		2	HG-22167	HINGE, LEFT-HAND to unit		2	HG-22167
18. SELF-SERVE DOOR, RIGHT-HAND		1	4409	18. SELF-SERVE DOOR, RIGHT-HAND		1	4409
HINGE, RIGHT-HAND to unit		2	HG-22168	HINGE, RIGHT-HAND to unit		2	HG-22168
HINGE BUSHING to unit		4	BU-2722	HINGE BUSHING to unit		4	BU-2722
HINGE MOUNTING SCREWS to unit		8	SC-2352	HINGE MOUNTING SCREWS to unit		8	SC-2352
19. END PANEL		2	PE-22639	19. END PANEL		2	PE-22639
20. CUTTING BOARD ASSEMBLY		1	4017	20. CUTTING BOARD ASSEMBLY		1	4017
21. CUTTING BOARD BRACKET (BASE)		2	12069	21. CUTTING BOARD BRACKET (BASE)		2	12069
CUTTING BOARD BRACKET MTG. SCREWS		6	SC-24520	CUTTING BOARD BRACKET MTG. SCREWS		6	SC-24520
22. CUTTING BOARD BRACKET		2	BT-2342	22. CUTTING BOARD BRACKET		2	BT-2342
25. END GLASS		2	GL-22597	25. END GLASS		2	GL-22597
END GLASS GASKET, 4' (1219mm)		1	GS-22547	END GLASS GASKET, 4' (1219mm)		1	GS-22547
26. INNER END GLASS		1	GL-22598	26. INNER END GLASS		1	GL-22598
DIVIDER GLASS GASKET, 3' (914mm)		3'	GS-22548	DIVIDER GLASS GASKET, 3' (914mm)		1	GS-22548
27. FRONT GLASS: 4' (1219mm)		1	GL-22595	27. FRONT GLASS: 4' (1219mm)		1	GL-22595
28. SELF-SERVE GLASS: 2' (610mm)		1	GL-22592	28. SELF-SERVE GLASS: 2' (610mm)		1	GL-22592
29. CUSTOMER GUARD: 2' (610mm)		1	11115	29. CUSTOMER GUARD: 2' (610mm)		1	11115
SPACER		1	SP-24589	SPACER		1	SP-24589
SCREWS		2	SC-2073	SCREWS		2	SC-2073
30. BASE BOTTOM		1	12563	30. BASE BOTTOM		1	12563
31. PAN DIVIDER BARS (NOT SHOWN)				31. PAN DIVIDER BARS (NOT SHOWN)			
PART NUMBERS ARE REFERENCED IN THIS MANUAL				PART NUMBERS ARE REFERENCED IN THIS MANUAL			
32. SNAP-IN RECEPTACLES (120V)		2	RP-3396	32. SNAP-IN RECEPTACLES (120V)		2	RP-3396
33. OUTLET HOUSING COVER		1	4951	33. OUTLET HOUSING COVER		1	4951
34. RECEPTACLE FUSE, 15 AMP (120V)		1	FU-33351	34. RECEPTACLE FUSE, 15 AMP (120V)		1	FU-33351
RECEPTACLE FUSEHOLDER, 15 AMP (120V)		1	FU-33352	RECEPTACLE FUSEHOLDER, 15 AMP (120V)		1	FU-33352
35. 4' (1219mm) PROBE PKG OPT (120V) (NOT SHOWN)		1	5295	35. 4' (1219mm) PROBE PKG OPT (120V) (NOT SHOWN)		1	5295
36. LOAD CENTER PKG OPTION (120V) (NOT SHOWN)		1	14220	36. LOAD CENTER PKG OPTION (120V) (NOT SHOWN)		1	14220
37. FRONT GLASS STRUT		2	SU-22704	37. FRONT GLASS STRUT		2	SU-22704
38. FRONT GLASS STRUT		1	SU-22431	38. FRONT GLASS STRUT		1	SU-22431
39. SNAP-IN BUMPER (NOT SHOWN)		1	11750	39. SNAP-IN BUMPER (NOT SHOWN)		1	11750

HN-72
SERVICE VIEW
REV: 7/24/97

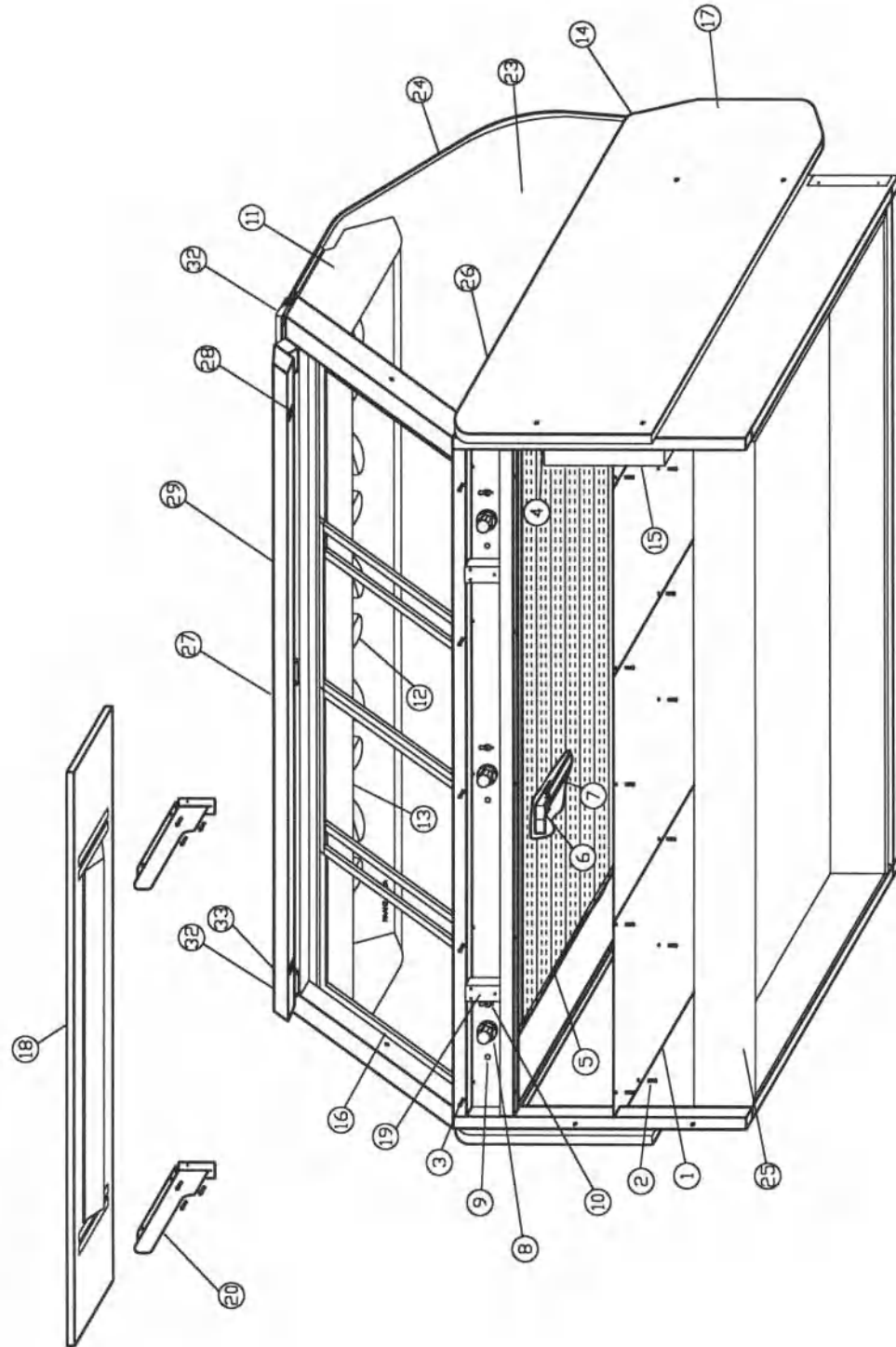
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HNSYS-72
SERVICE VIEW
REV: 7/24/97

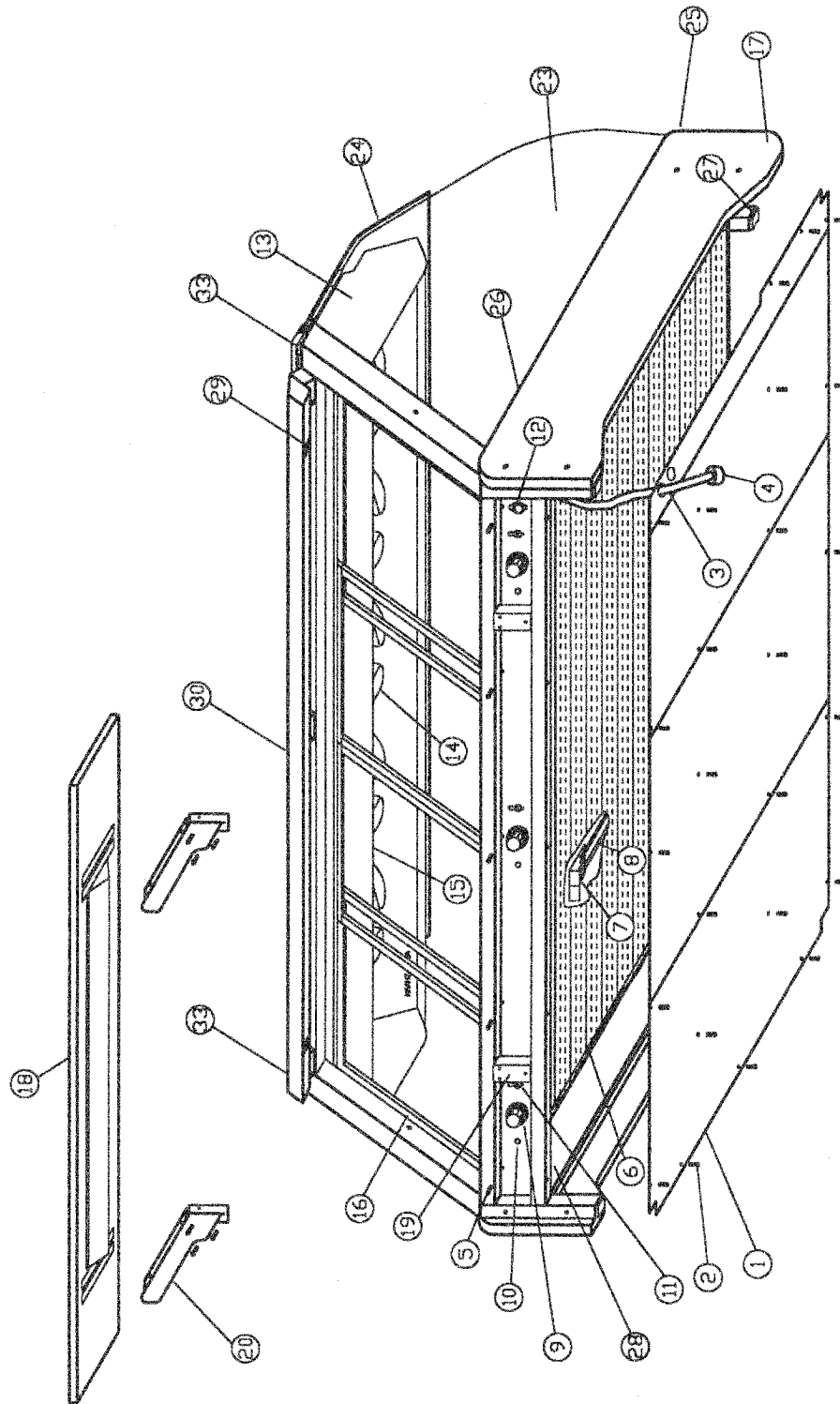
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HN-72/P
SERVICE VIEW
REV: 7/24/97

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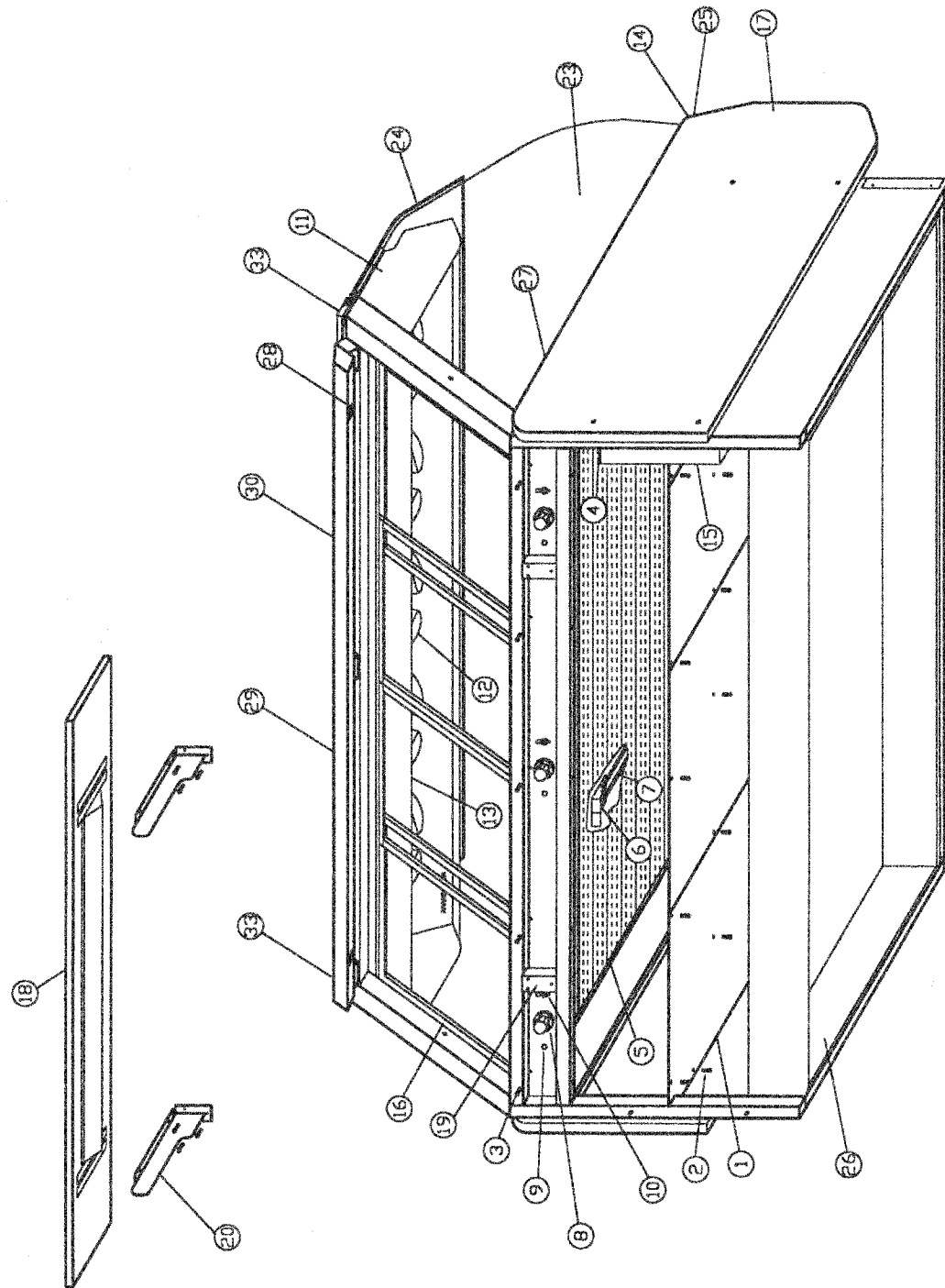
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HNSYS-72/P

SERVICE VIEW

REV: 7/24/97

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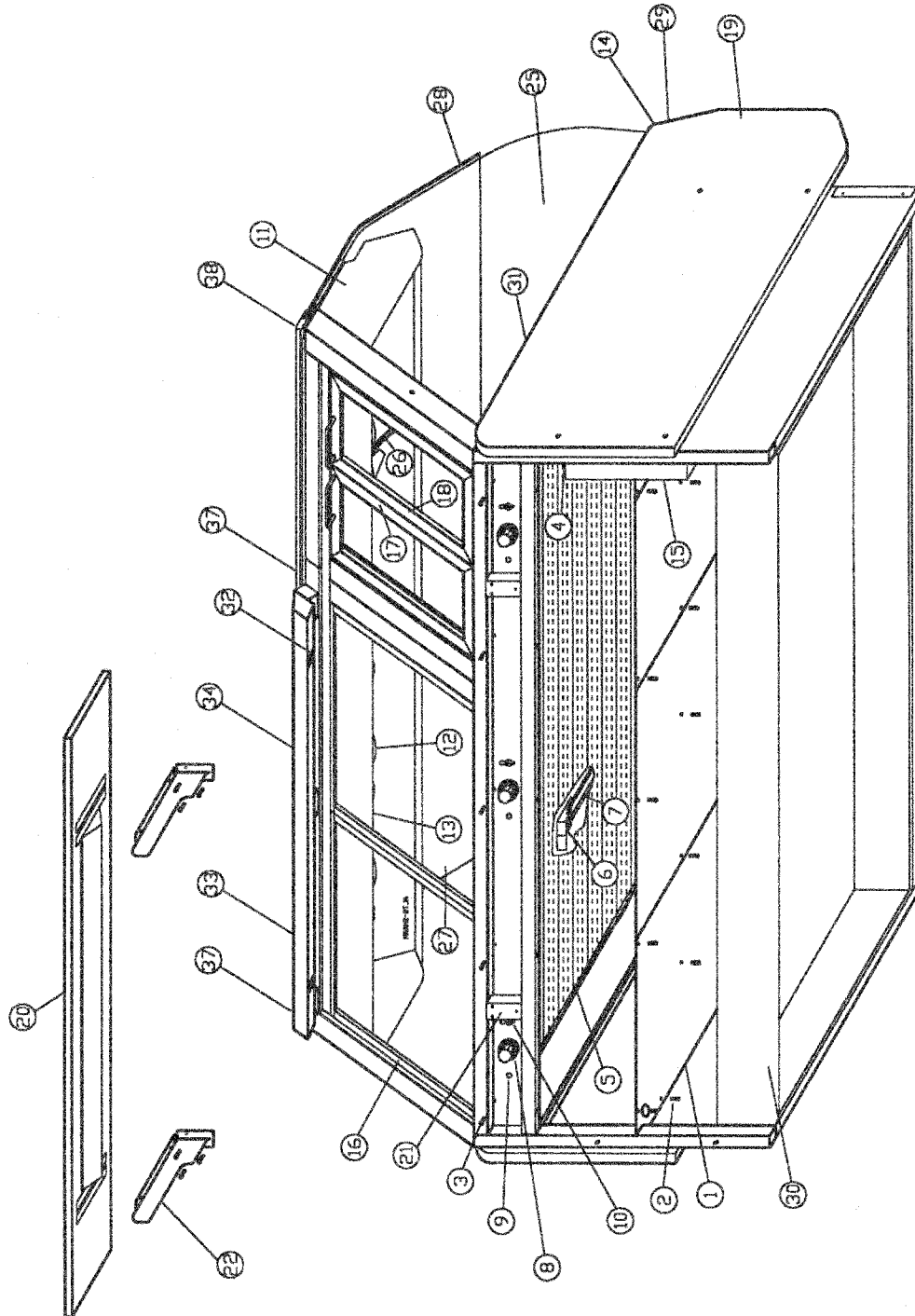


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HNSYS-72/PL

SERVICE VIEW
REV: 7/24/97

06-03-94

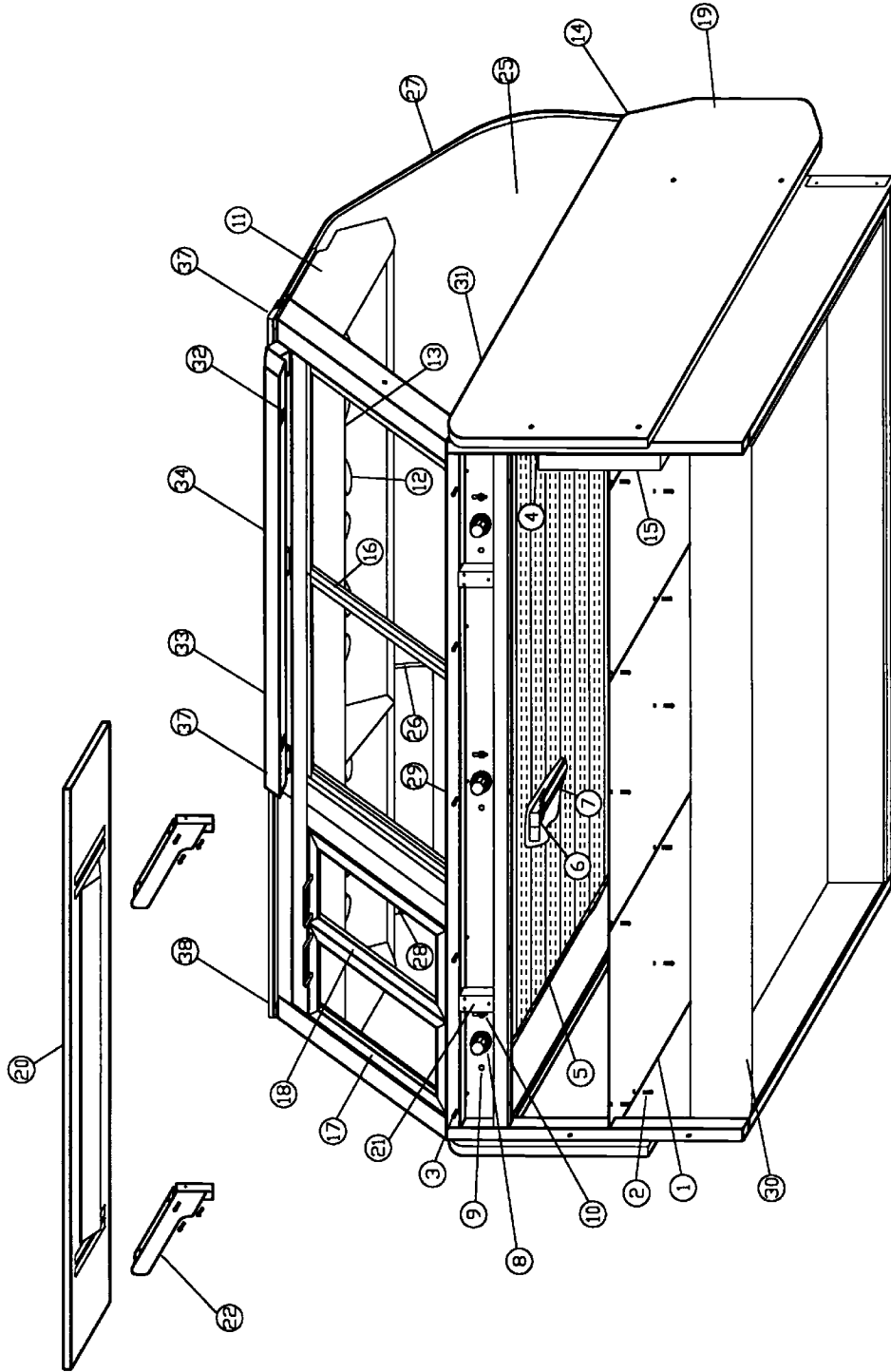


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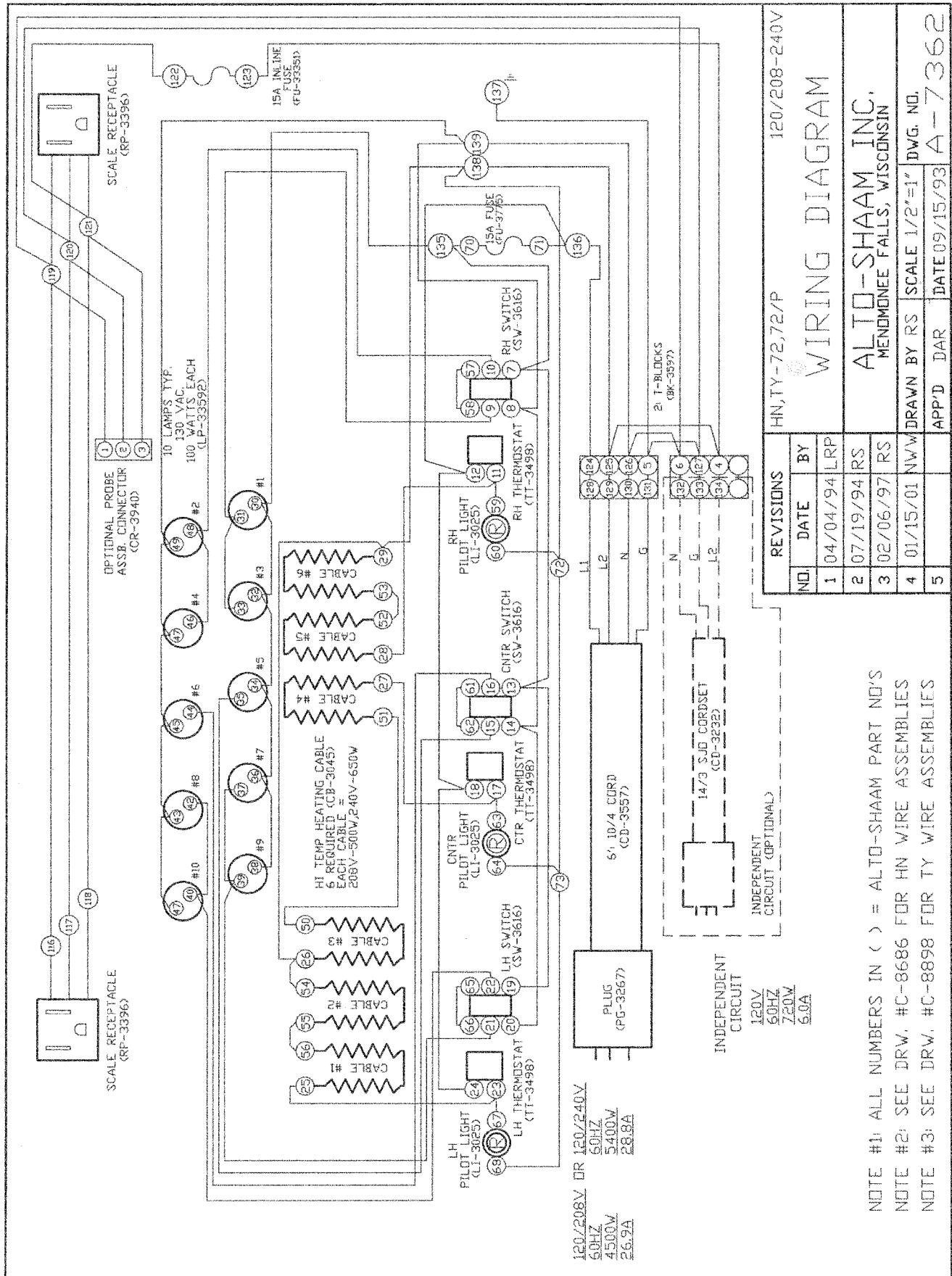
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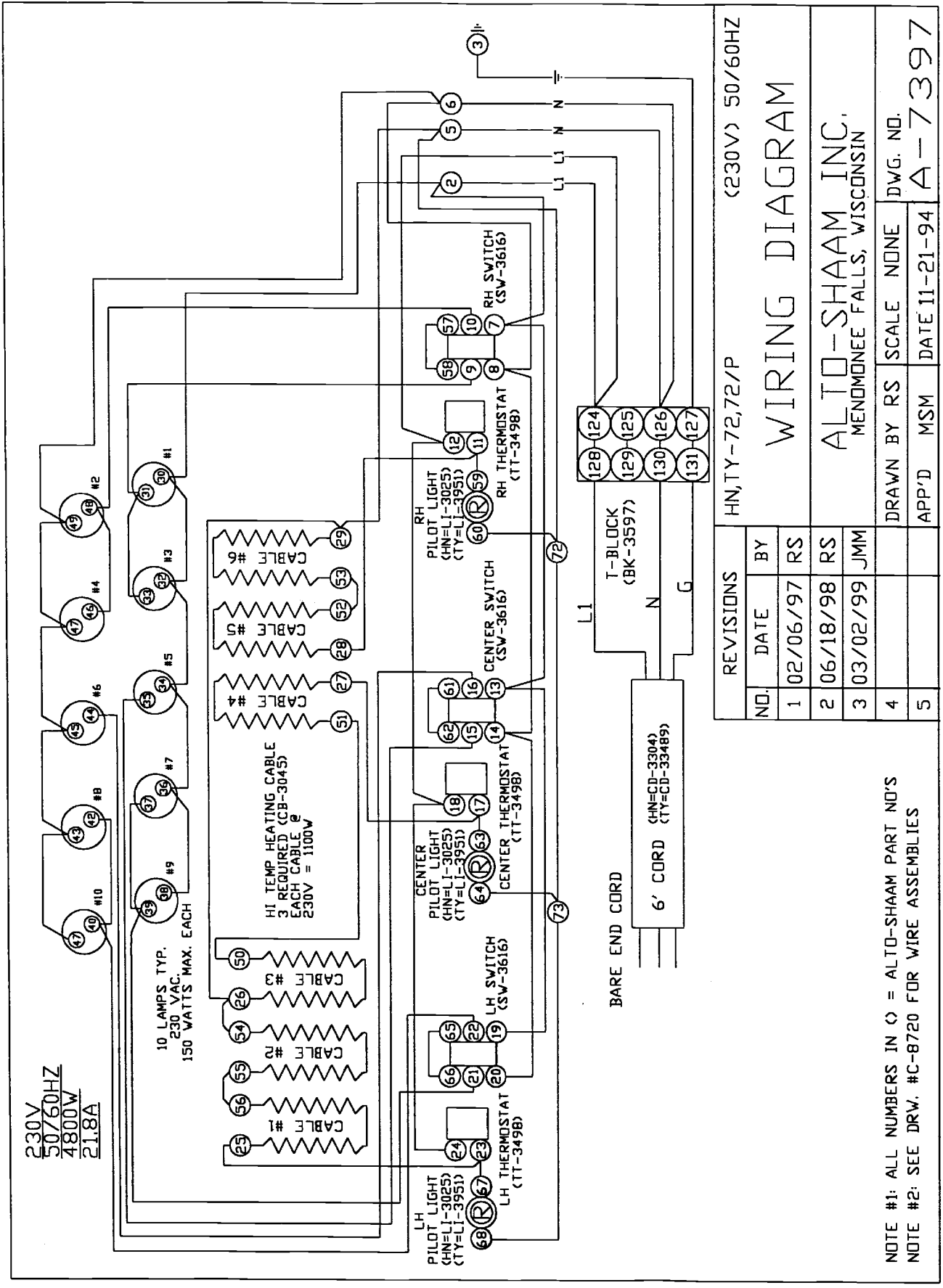
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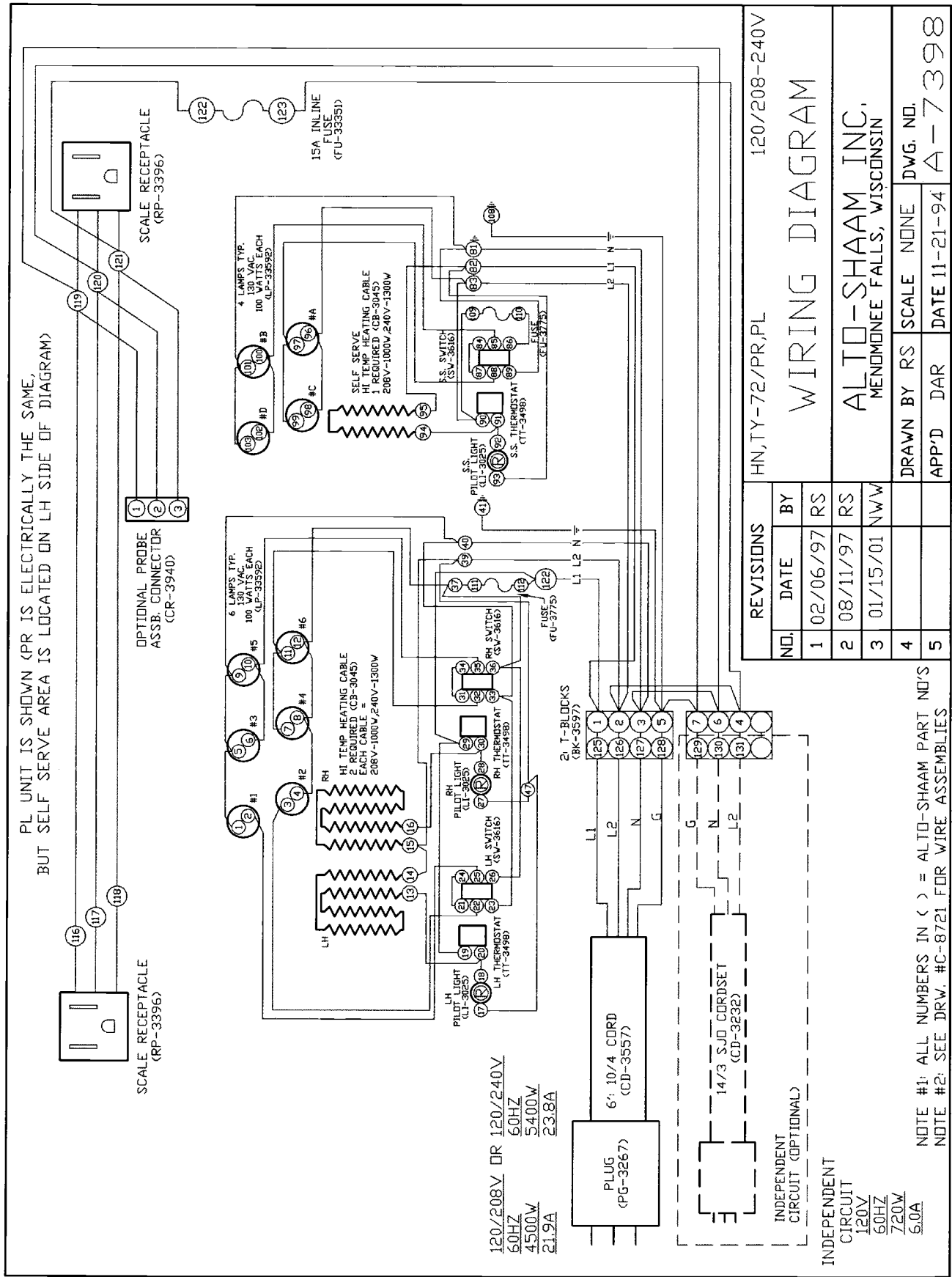
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SERVICE VIEW
REV: 7/24/97

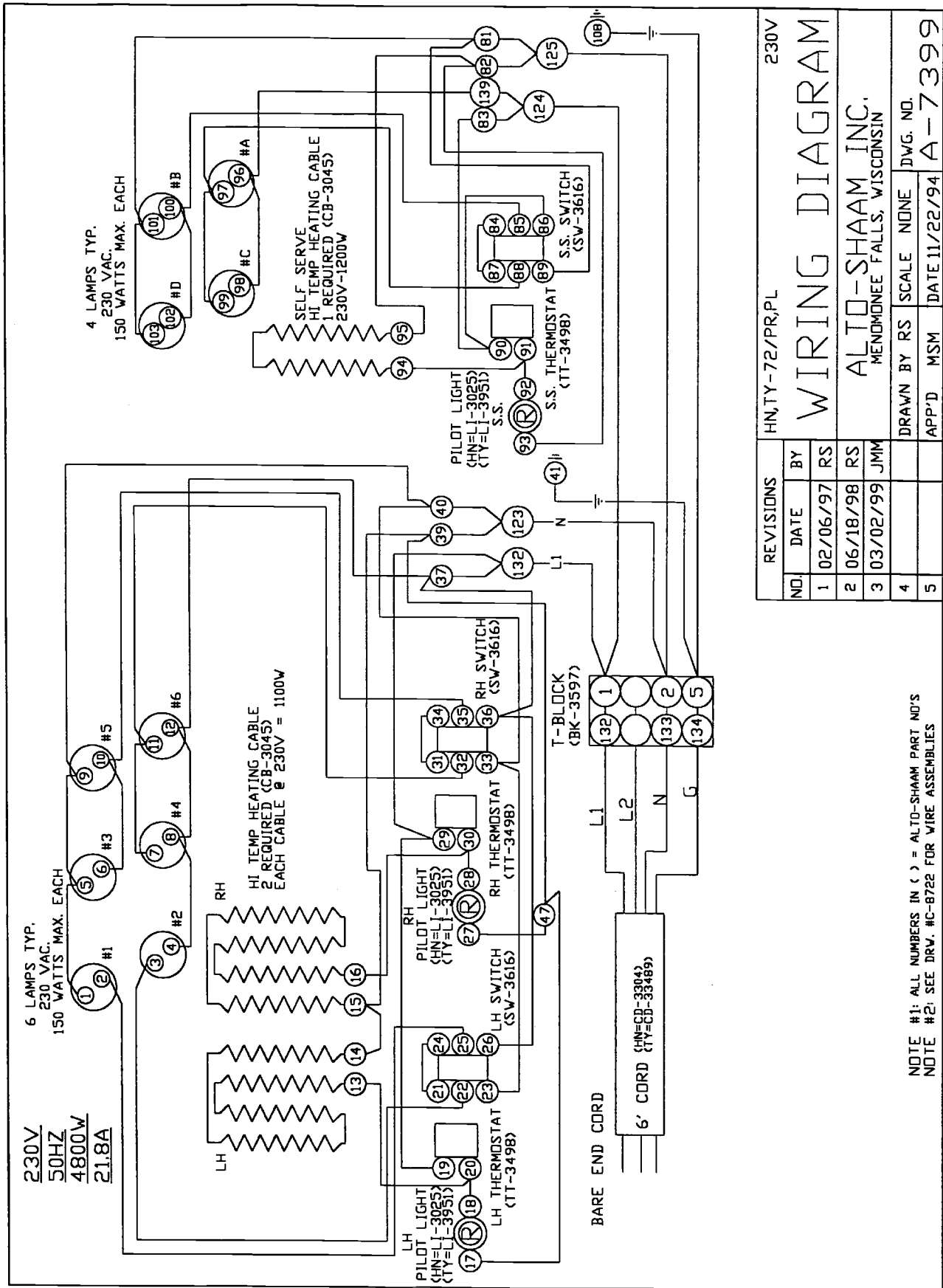


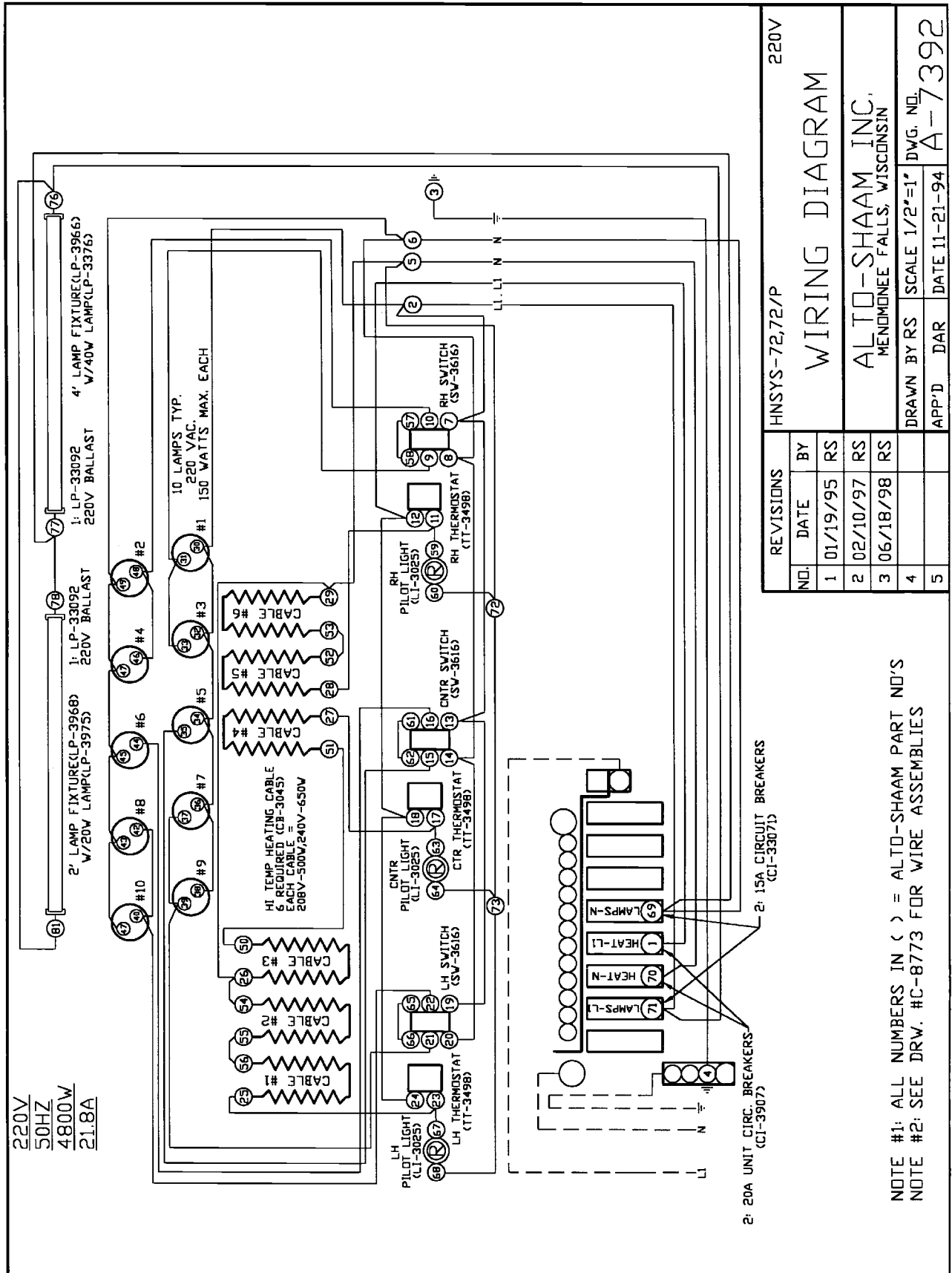
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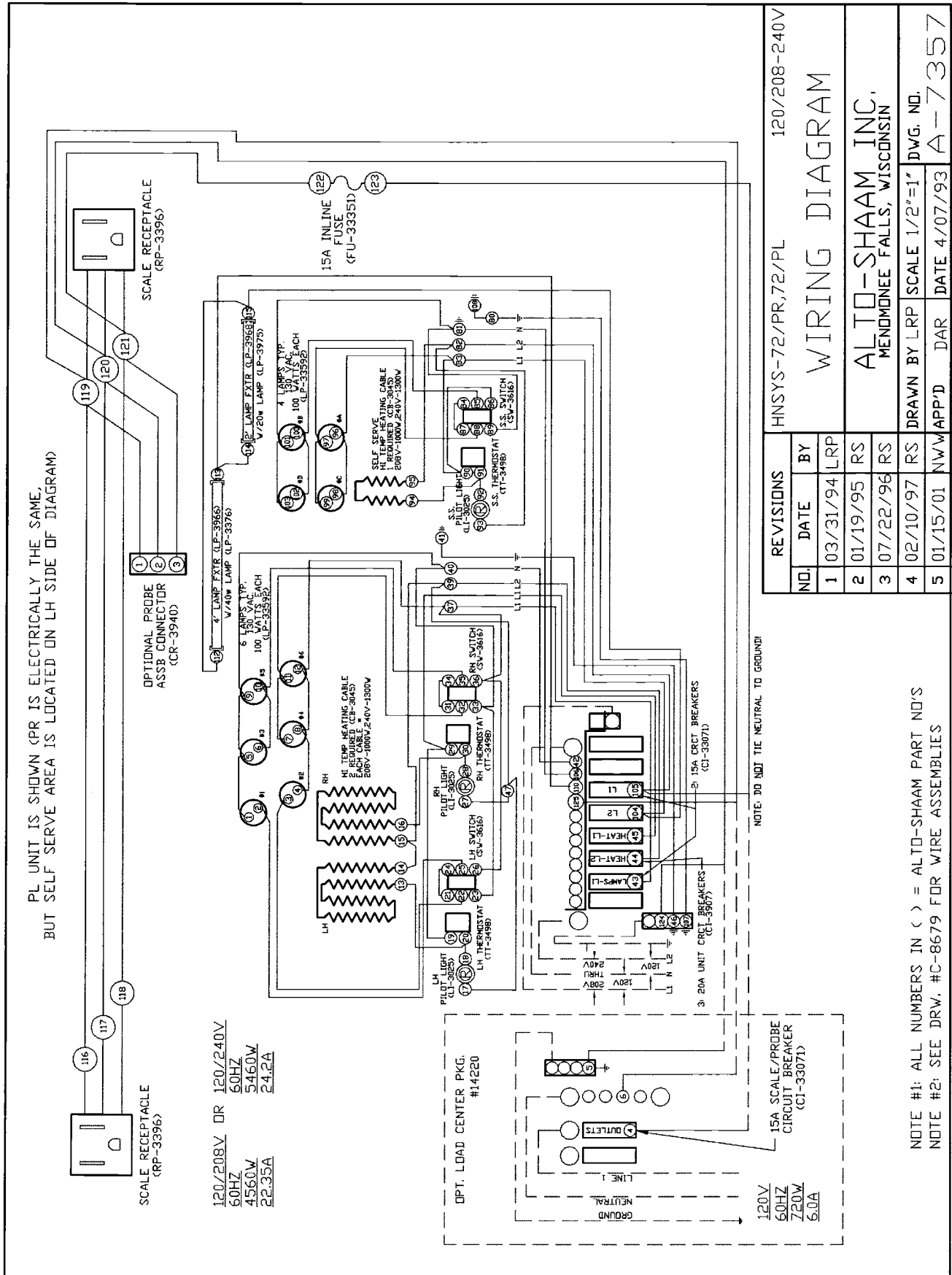




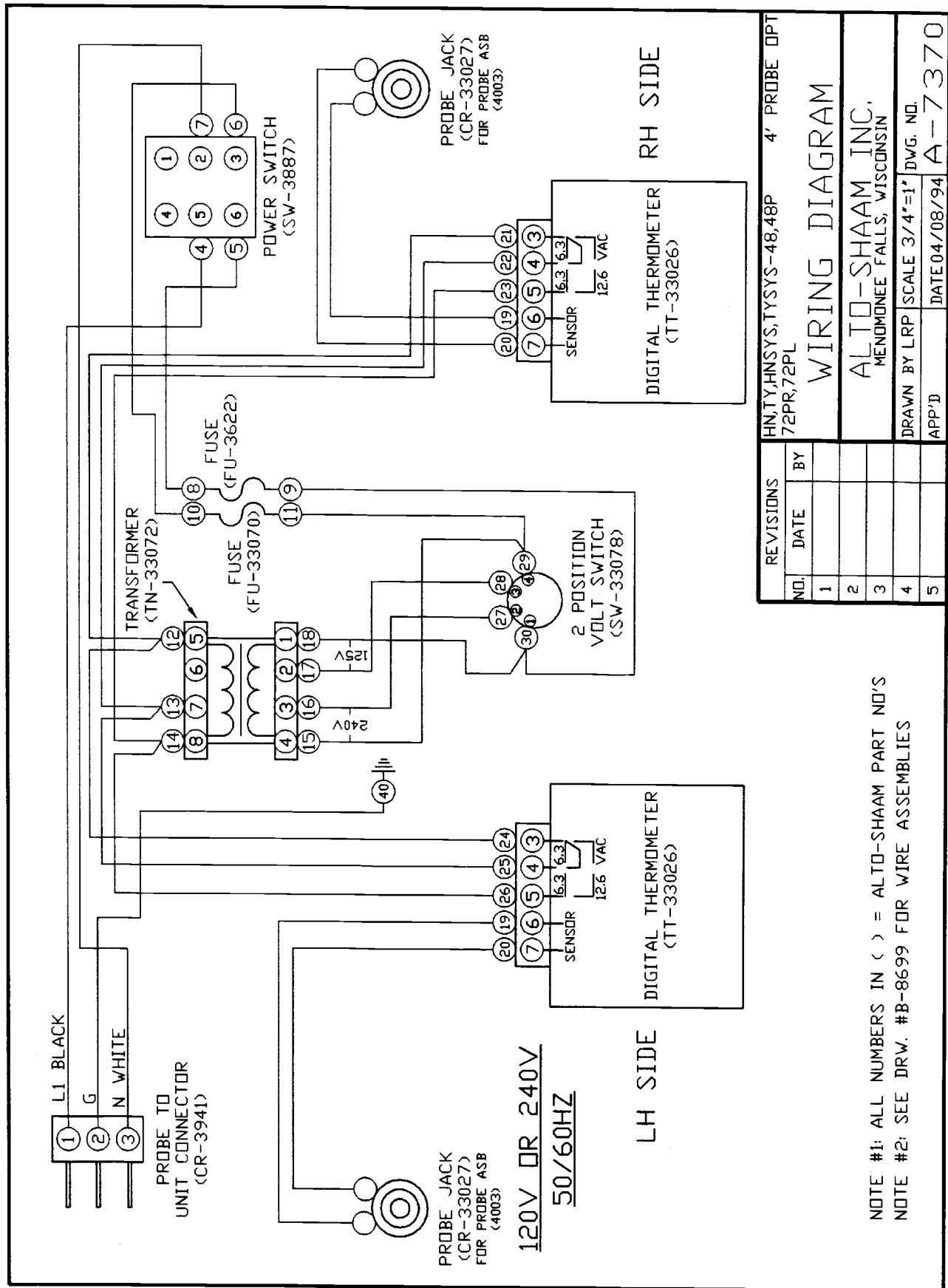


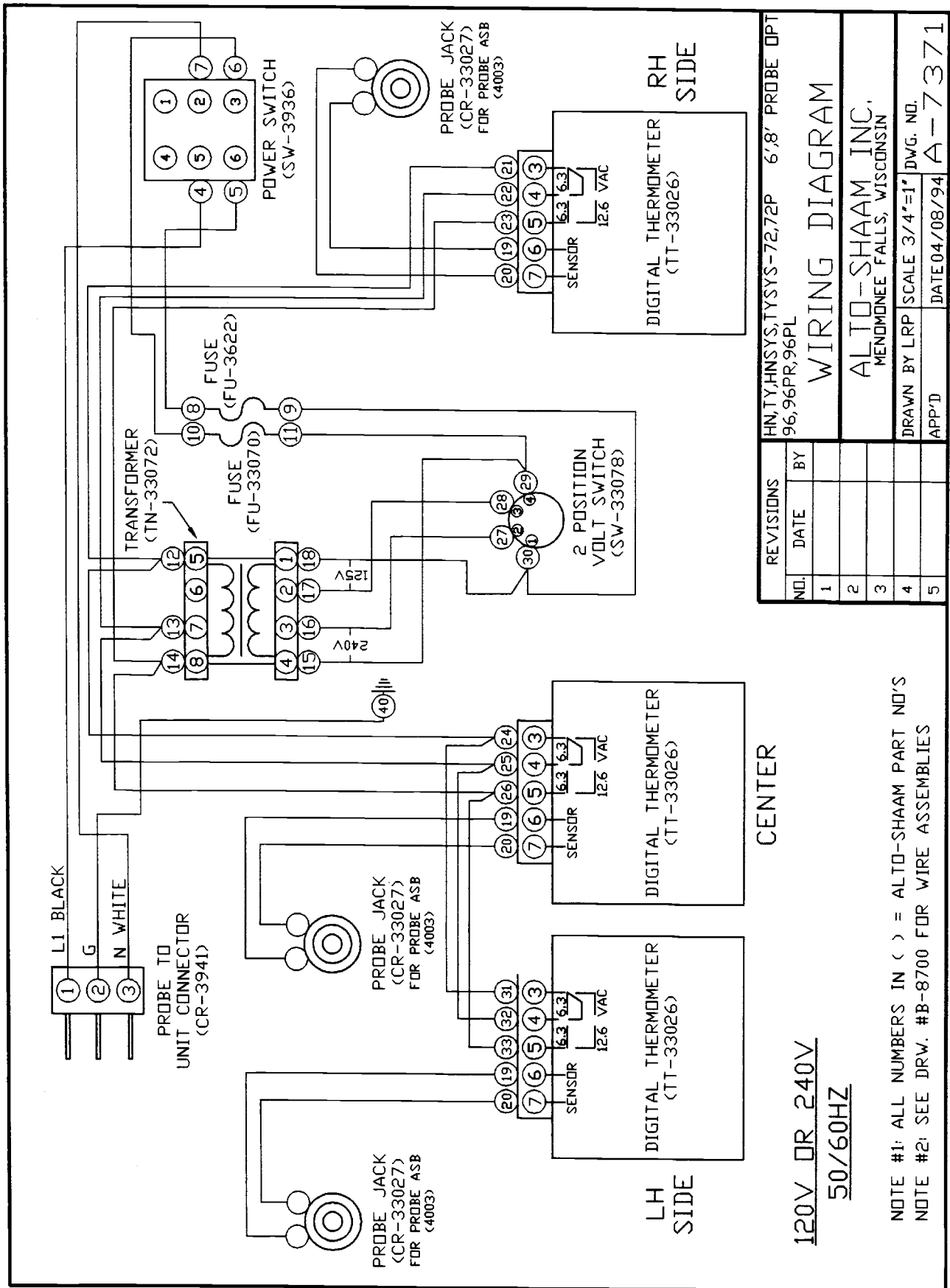






REVISIONS			HNSYS-72/PR,72/PL		120/208-240V	
NO.	DATE	BY	WIRING DIAGRAM			
1	03/31/94	LRP				
2	01/19/95	RS				
3	07/22/96	RS				
			ALTO-SHAAM INC. MEMMONEE FALLS, WISCONSIN			
4	02/10/97	RS	DRAWN BY LRP	SCALE 1/2"=1"	DWG. NO.	
5	01/15/01	NW	APP'D	DAR	DATE 4/07/93	
			A-7357			





TRANSPORTATION DAMAGE and CLAIMS



All Alto-Shaam equipment is sold F.O.B. shipping point, and when accepted by the carrier, such shipments become the property of the consignee.

Should damage occur in shipment, it is a matter between the carrier and the consignee. In such cases, the carrier is assumed to be responsible for the safe delivery of the merchandise, unless negligence can be established on the part of the shipper.

1. Make an immediate inspection while the equipment is still in the truck or immediately after it is moved to the receiving area. Do not wait until after the material is moved to a storage area.
2. Do not sign a delivery receipt or a freight bill until you have made a proper count and inspection of all merchandise received.
3. Note all damage to packages directly on the carrier's delivery receipt.
4. Make certain the driver signs this receipt. If he refuses to sign, make a notation of this refusal on the receipt.
5. If the driver refuses to allow inspection, write the following on the delivery receipt:
Driver refuses to allow inspection of containers for visible damage.
6. Telephone the carrier's office immediately upon finding damage, and request an inspection. Mail a written confirmation of the time, date, and the person called.
7. Save any packages and packing material for further inspection by the carrier.
8. Promptly file a written claim with the carrier and attach *copies* of all supporting paperwork.

We will continue our policy of assisting our customers in collecting claims which have been properly filed and actively pursued. We cannot, however, file any damage claims for you, assume the responsibility of any claims, or accept deductions in payment for such claims.

ALTO-SHAAM® LIMITED WARRANTY

Alto-Shaam, Inc. warrants to the original purchaser that any original part that is found to be defective in material or workmanship will, at our option, subject to provisions hereinafter stated, be replaced with a new or rebuilt part.

The labor warranty remains in effect one (1) year from installation or fifteen (15) months from the shipping date, whichever occurs first.

The parts warranty remains in effect one (1) year from installation or fifteen (15) months from the shipping date, whichever occurs first.

Exceptions to the one year part warranty period are as listed:

- A. Halo Heat cook/hold ovens include a five (5) year parts warranty on the heating element. Labor will be covered under the terms of the standard warranty period of one (1) year or fifteen (15) months.
- B. Alto-Shaam Quickchillers include a five (5) year parts warranty on the refrigeration compressor. Labor will be covered under the terms of the standard warranty period of one (1) year or fifteen (15) months.

This warranty does not apply to:

1. Calibration
2. Replacement of light bulbs and/or the replacement of display case glass due to damage of any kind.
3. Equipment damage caused by accident, shipping, improper installation or alteration.
4. Equipment used under conditions of abuse, misuse, carelessness or abnormal conditions.
5. Any losses or damage resulting from malfunction, including loss of product or consequential or incidental damages of any kind.
6. Equipment modified in any manner from original model, substitution of parts other than factory authorized parts, removal of any parts including legs, or addition of any parts.

This warranty is exclusive and is in lieu of all other warranties, expressed or implied, including the implied warranties of merchantability and fitness for purpose. In no event shall the Company be liable for loss of use, loss of revenue, or loss of product or profit, or for indirect or consequential damages. This warranty is in lieu of all other warranties expressed or implied and Alto-Shaam, Inc. neither assumes or authorizes any persons to assume for it any other obligation or liability in connection with Alto-Shaam equipment.

ALTO-SHAAM, INC.

Warranty effective January 1, 2000

Record the model and serial numbers of the unit for easy reference.
Always refer to both model and serial numbers in your correspondence regarding the unit.

Model: _____
Serial Number: _____
Purchased From: _____
Date Installed: _____ Voltage: _____

HALO HEAT COOK/HOLD/SERVE SYSTEMS BY ALTO-SHAAM®

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