

OPERATION and CARE MANUAL



TY-30 (countertop model)



HEATED DISPLAY CASE

MODELS: TY-30

TYSYS-30

TYSYS-30/RM



HALOHEAT COOK/HOLD/SERVE SYSTEMS

W164 N9221 Water Street • P.O. Box 450 • Menomonee Falls, Wisconsin 53052-0450 U.S.A.

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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 cabinet is provided. When you receive your display case, 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.

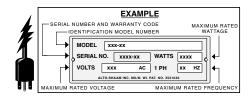
In order to maintain established National Sanitation Foundation standards, all stationary models must be sealed to the floor or counter with a R.T.V. or silastic meeting N.S.F. requirements or have 6" unobstructed clearance beneath the unit. Counter and table units must be mounted on legs of a sufficient 4" height to provide minimum unobstructed space beneath the unit. 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 display 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 and serial number of the display case.

ELECTRICAL INSTALLATION

The unit must be installed by an authorized service agent in accordance with national codes.



- 1. An identification tag is permanently mounted on case.
- 2. Plug the case into a properly grounded receptacle ONLY. Arcing will occur when connecting or disconnecting the display case unless all controls are in the OFF position. Remember to position the unit so that the electric cord is easily accessible in case of an emergency.
- 3. REGARDING INTERNATIONAL STANDARD UNITS:
 If the unit is not equipped with flexible cord with plug, an all-pole country approved disconnection device which has a contact separation of at least 3mm in all poles must be incorporated in the fixed wiring for disconnection.
 When using a cord without a plug, the green/yellow conductor shall be connected to the terminal which is marked with the ground symbol. If a plug is used, the socket outlet must be easily accessible. If power cord needs replacement, use a similar one obtained from the distributor.

ENSURE POWER SOURCE MATCHES VOLTAGE STAMPED ON NAMEPLATE OF UNITA

START-UP PROCEDURES

1. Before operating the display case, clean both the interior and exterior of the unit with a damp cloth and mild soap

- solution. Rinse carefully. Clean all window areas with a standard glass cleaner. Clean all detachable items.
- 2. Insert the stainless steel drip pan on the bottom interior surface of the rotating merchandiser.
- This unit should NOT be installed in any area where it may be affected by steam, grease, dripping water, high temperatures or any other severely adverse conditions. Do not install directly adjacent to heat producing equipment.

OPERATIONAL PROCEDURES

- 1. DO NOT ADD WATER TO THE UNIT.
 - Halo Heat merchandisers maintain a constant but gentle temperature and eliminate much of the moisture loss associated with conventional merchandisers. Because of this gentle heat, it is not necessary to add water to the unit. 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. POSITION DIVIDERS and SERVING PANS in UNIT or PLACE BASKETS on ROTATING SPINDLE ARMS for ROTATING MERCHANDISER
 - It is <u>VERY</u> 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, 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 AT NUMBER "10" TO PREHEAT An indicator light will illuminate when the thermostat is turned "ON." The indicator 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 merchandiser with food. When preheating is completed, or whenever the unit reaches any temperature set by the operator between 1 and 10, the indicator light will go "OUT".
- 4. LOAD HOT FOODS INTO THE MERCHANDISER
 Be certain only hot food is transferred into the merchandiser. Before loading the food, use a pocket-type meat thermometer to make certain all products have reached an internal temperature of 150° to 160° F (66° to 71°C). If any food product is not at proper serving temperature, use a Halo Heat cooking and holding oven, or a Combitherm combination oven/steamer to bring the product within the correct temperature range.
- 5. RESET THERMOSTAT AS NEEDED

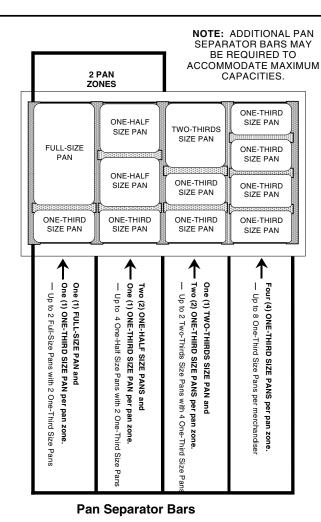
After all products are loaded into the merchandiser and the doors are closed, reset the thermostat to the number "8" setting. THIS WILL NOT NECESSARILY BE THE FINAL SETTING. Since proper temperature range depends on the type of products and the quantities being

held, 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 150° and 160°F (66° and 71°C). Normally, this will require a thermostat setting of between number "6" and "8," although a higher or lower setting may sometimes be required. The full service unit always requires a higher setting.

6. SERVE FRESH HOT FOOD

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

PAN CONFIGURATIONS



Full-size (long).....11317

Half-size/Third-size......11318

3 needed (center & both sides)

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.



THOROUGHLY CLEAN THE MERCHANDISER DAILY

- 1. Turn lights and adjustable thermostat to the "OFF" position. Disconnect unit from the power source.
- **2.** Remove, cover or wrap, and store unused products under refrigeration.
- **3.** Remove all detachable items such as pan separator bars, pans, baskets, etc. Clean these items separately.
- 4. Clean the interior metal surfaces 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 an approved oven cleaner for difficult areas. Avoid the use of abrasive cleaning compounds, chloride based cleaners, or cleaners containing quaternary salts. Rinse carefully to remove all residue and wipe dry. Clean glass with a window cleaner.

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

5. 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 unit 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, voiding the warranty.

CAUTION

Always disconnect unit from power source before cleaning or servicing.

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. <u>DO NOT</u> LIFT THE HOOD IN THIS CONDITION.

SANITATION GUIDELINE

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, good sanitation programs provide a key element 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 temp-

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)			

eratures of
both hot and
cold food is
by internal
product
temperature.
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 GUIDELINE

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 or dehydration.

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.

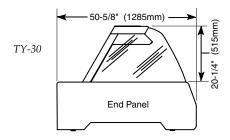
Most Halo Heat Holding Equipment is provided with a thermostat control between 60° and 200°F (16° to 93°C). If the unit is equipped with vents, close the vents for moist holding and open the vents for crisp holding.

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.

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.				

Options & Accessories

=
Cordset, independent circuit (NOT CSA APPROVED) .14221
Custom Panel Colors
Interior Ambient Temperature GaugeGU-33384
Pocket Thermometer °F
Pocket Thermometer °CTH-3412
Tempered Glass End Spacer
Reflective Tempered Glass Case End Panes
— RIGHT-HAND
— LEFT-HAND
Scale Platform
Stainless Steel End Patch Assembly Kit14600
INCLUDES:
— Right Hand S/S End Patch
— Left Hand S/S End Patch
— C-Rubber Frame Gasket, 2' (610mm)FR-22496
Pan Separator Bars
— Full-size (LONG)11317
— Half-size/Third size (SHORT)



SAFETY ALERT

This units performance has been optimized using the factory provided bulbs. These bulbs should be replaced with an exact

CAUTION 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

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.

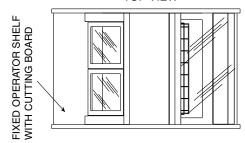
Heat Cable for TY-30	Replacement Service Kit
CB-3045 CR-3226 IN-3488 BU-3105 BU-3106 SL-3063 TA-3540 NU-2215 ST-2439	Cable Heating Element 72 feet Ring Connector 4 Insulation Corner 1 foot Shoulder Bushing 4 Cup Bushing 4 Insulating Sleeve 4 Electrical Tape 1 roll Hex Nut 8 Stud 4

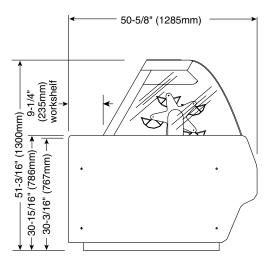
TYSYS-30/RM (revolving merchandiser on base)



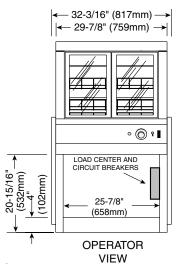
control side

TOP VIEW

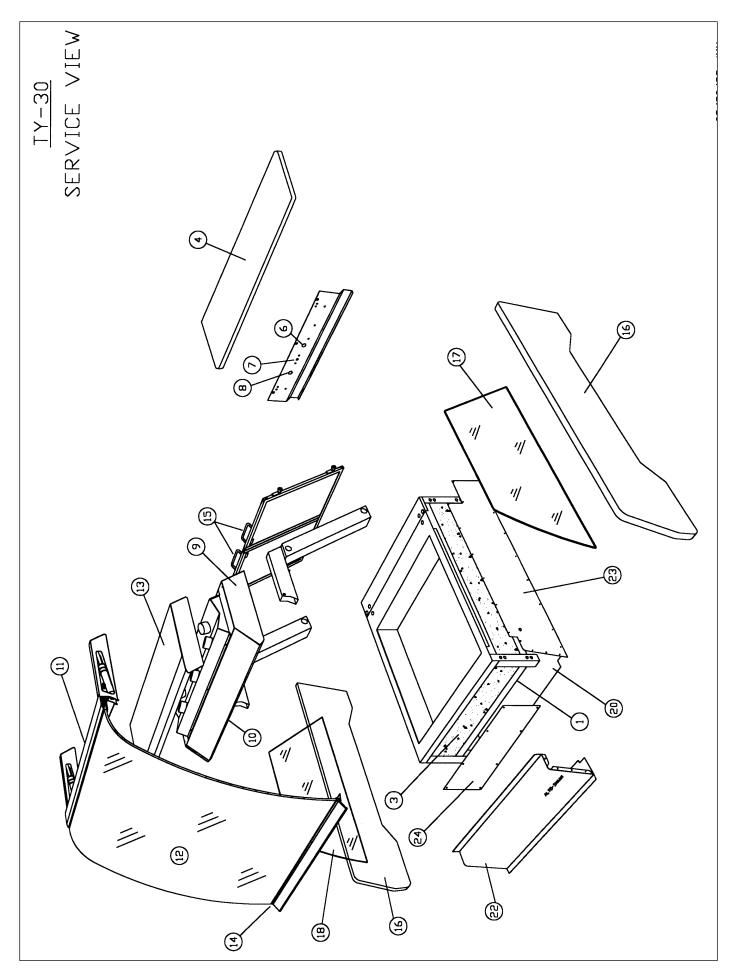




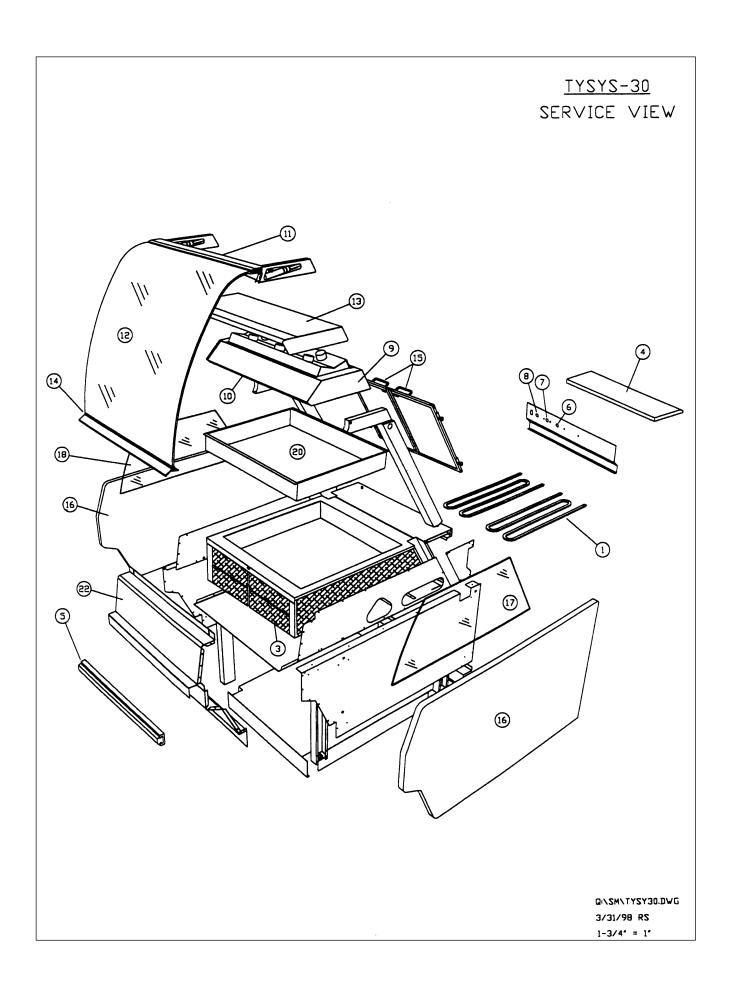
SIDE VIEW



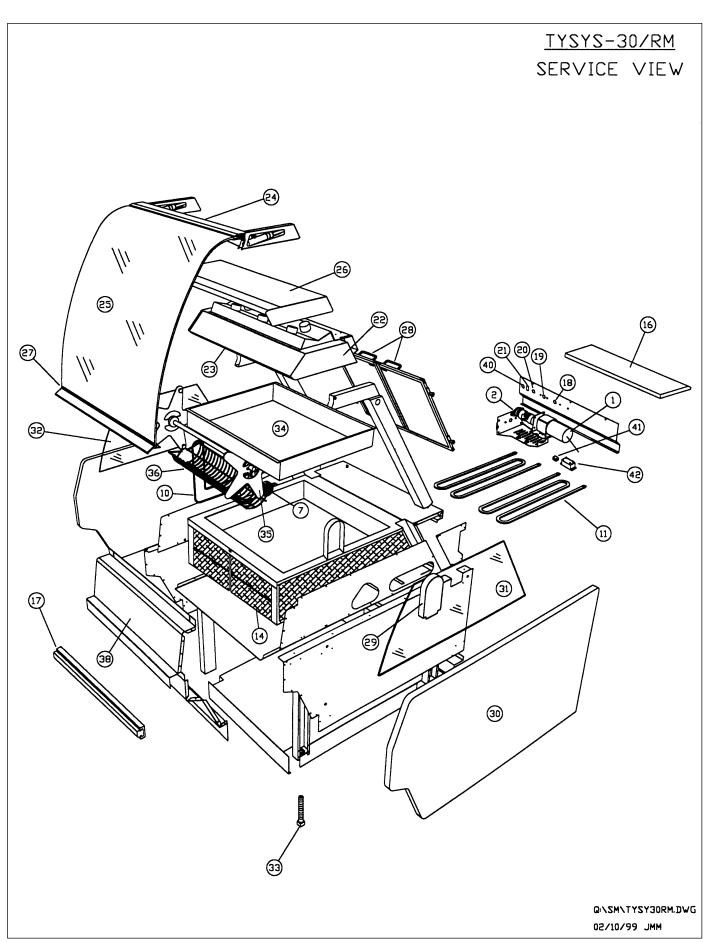
	TY-30 - Service Parts • se	e P	age 6	TY	'SYS-30 -	Service Parts •	see l	Page 7
12,	/22/00			12/22				
1.	PART DESCRIPTION HEATING CABLE, 66' (20117mm)	<u>отч</u> 1	<u>A/S PT NO</u> . CB-3045	1.	PART HEATING ELEM	DESCRIPTION ENTS	<u>отч</u> 2	<u>a/s pt no</u> . EL-33247
2.	TERMINAL BLOCK, 4x10-32 screw (not shown) 120V	1	BK-3023			CENTER (NOT SHOWN)	1	CI-3877
	T-BLOCK MOUNTING SCREWS	2	SC-2077			TTED MTG. SCREWS	4	SC-2070
	T-BLOCK MOUNTING NUTS	2	NU-2296 BK-3597	1	,	LIP TRUSS MTG. SCREWS	4	SC-2661
	TERMINAL BLOCK, 4 COMPRESS (NOT SHOWN) 230V T-BLOCK MOUNTING SCREWS	2	SC-2365	1	10-32 MTG. HEX	NUTS OOTH MTG. LOCK WASHERS	4	NU-2215 WS-2467
3	INSULATION, 1.5"x25.5"x60" (38mmX648mmX1524mm)		IN-22364	1	TANDEM CIRCU		1	CI-3879
	,				CIRCUIT GROUN	ND BAR KIT	1	CI-3878
4.	CUTTING BOARD ASSEMBLY -INCLUDES: CUTTING BOARD	1 1	14759 BA-23973		CONDUIT TUBIN		1	TU-3874
	CUTTING BOARD MTG. SCREWS	4	SC-24520		CONDUIT MTG.		2	CR-3293
	CUTTING BOARD PINS	2	PI-22508		INSULATION - IN INSULATION - U		3 1	IN-2003 IN-22364
5.	CORD, SJEOW-A,12/4(120V)8'(2438mm)(NOT SHOWN)	1	CD-3291					
	CORD, H07RN-F3G4,HARMON, 12/3(230V)8'(2438mm)	1	CD-33490	1	CUTTING BOAR	D ASSEMBLY -INCLUDES:	1 1	14759 BA-23973
	CORD CONNECTOR, 120V CORD STRAIN RELIEF BUSHING, 230V	1 1	CR-3293 BU-33505			D MTG. SCREWS	4	SC-24520
	PLUG, 30A, 120V USE ONLY	1	PG-3267		CUTTING BOARI	D PINS	2	PI-22508
6	INDICATOR LIGHT, 120V	1	LI-3025	5.	BUMPER RAIL		1	13518
0.	INDICATOR LIGHT, 230V	1	LI-3951		BUMPER RAIL M		5	SC-2077
	INDICATOR LIGHT MOUNTING NUT	1	NU-3335		BUMPER INSERT	, , ,	1	BM-22721
7.	THERMOSTAT	1	TT-3498		INDICATOR LIGINITION LIGITATION LIGRIPI LIGITATION LIGITATION LIGITATION LIGITATION LIGITATION LIGI		1 1	LI-3025
	THERMOSTAT BEZEL	1	TT-3713	1	INDICATOR LIG	*	1	LI-3951 NU-3335
	THERMOSTAT KNOB THERMOSTAT MTG. SCREWS	1 2	KN-3473 SC-2254		THERMOSTAT		1	TT-3498
	THERMOSTAT MTG. SCREWS THERMOSTAT MTG. WASHER	1	WS-22025	1	THERMOSTAT B	EZEL	1	TT-3713
8	LIGHT SWITCH	1	SW-3616	1	THERMOSTAT K		1	KN-3473
0.	RUBBER BOOT, 230V	1	SL-2633	1	THERMOSTAT M		2 1	SC-2254 WS-22025
9.	INNER TOP ASSEMBLY - 120V, 230V	1	15839		THERMOSTAT M	IIG. WASHER		
	-INCLUDES:	1		1	LIGHT SWITCH RUBBER BOOT, 2	2201/	1 1	SW-3616 SL-2633
	HINGE ASSEMBLIES	2	HG-22486					
	HINGE ASSEMBLY MTG SCREWS STRUT PAK BODIES	8 2	SC-2425 13149	1	HINGE ASSEMBI	EMBLY - 120V, 230V, INCLUDES:	1 2	15595 HG-23969
	95 LB. STRUTS, RED	2	SU-24021	1	HINGE ASSEMBL		8	SC-2425
	PIVOT PINS	2	PI-23679	1	STRUT PAK BODI		2	13149
	HINGE ANCHOR PINS	4	PI-23678	1	95 LB. STRUTS, RE PIVOT PINS	ED	2 2	SU-24021 PI-23679
	PIVOT HINGES END PLUGS	2 4	HG-23816 PG-2899	1	HINGE ANCHOR	RPINS	4	PI-23678
	NYLON BUSHINGS	4	BU-2827	1	PIVOT HINGES		2	HG-23816
10.	BULBS - 120V (NOT SHOWN)	6	LP-33592	1	END PLUGS NYLON BUSHING	Ce.	4	PG-2899 BU-2827
	BULBS - 230V	6	LP-3384			G <i>3</i>	_	
	BULB RECEPTACLES, 120V	6	RP-3952 RP-3955	1	BULBS - 120V BULBS - 230V		6 6	LP-33592 LP-3384
	BULB RECEPTACLES, 230V			1	BULB RECEPTAC	LES, 230V	6	RP-3955
	GLASS CLAMP ASSEMBLY	1	CM-23971		BULB RECEPTAC	LES, 120V	6	RP-3952
12.	GLASS, FULL SERVICE	1	GL-23965	11.	GLASS CLAMP A	ASSEMBLY	1	CM-23971
13.	OUTER TOP SPOT ASSEMBLY	1	14498	12.	GLASS, FULL SEI	RVICE	1	GL-23965
	OUTER TOP MOUNTING SCREWS	3	SC-2459	13.	OUTER TOP SPO	T ASSEMBLY	1	14498
14.	GLASS FRAME HANDLE	1	1236 EB 22406		OUTER TOP MO	UNTING SCREWS	3	SC-2459
	FRAME, GASKET, EXTRUSION	1	FR-22496	1	FRAME, HANDI		1	13517
15.	RIGHT HAND GLASS DOOR ASSEMBLY LEFT HAND GLASS DOOR ASSEMBLY	1 1	14496 14495		FRAME, GASKET	Γ, EXTRUSION, 54" (1143mm)	1	FR-22496
	DOOR ASSEMBLY MTG. SCREWS	8	SC-2352	1		LASS DOOR ASSEMBLY	1	14496
	DOOR BUMPERS	2	BM-22039	1		ASS DOOR ASSEMBLY Y MTG. SCREWS	1 8	14495 SC-2352
	DOOR REST MTC SCREWS	1	13497 SC 2425	1	DOOR BUMPERS		8 2	BM-22039
	DOOR REST MTG. SCREWS FRAME, GASKET, EXTRUSION, 23-1/4" (591mm)	3 1	SC-2425 FR-22496		DOOR REST		1	13497
16	END PANEL	2	PE-22585	1	DOOR FYTRUSIC		3 1	SC-2425
10.	PANEL MTG. HINGE	8	HG-22672			ON, 23-1/4" (591mm)		FR-22496
	PANEL MTG. SCREW	8	SC-2073		PATCH END PAN PANEL MTG. NU		2 8	PE-23966 NU-2866
17.	LEFT HAND END GLASS, CLEAR	1	GL-22479		PANEL MTG. SCI	REWS	8	SC-23987
18.	RIGHT HAND END GLASS, CLEAR	1	GL-22479		PANEL MTG. FLA PANEL MTG. LO		8 8	WS-23725 WS-2867
	END GLASS GASKET, 2-1/2'(762mm)(NOT SHOWN)	2	GS-22547		LEFT HAND GLA		1	GL-22479
19.	LEGS, W/ADJUSTABLE FOOT (NOT SHOWN)	4	LG-22686		RIGHT HAND GI		1	GL-22479
20.	BOTTOM	1	1212			W/BOLT (NOT SHOWN)	4	SC-2242
	PAN DIVIDERS, LONG (NOT SHOWN)	1	11317		INSERT PAN, 4" (1	13593
	PAN DIVIDERS, SHORT (NOT SHOWN)	4	11317			LONG (NOT SHOWN)	3	11317
22.	CUSTOMER TOP DECOR ASSEMBLY	1	14757			SHORT (NOT SHOWN)	6	11317
	BASE SIDE	2	12155	22.	CUSTOMER SIDE	E TOP DECOR	1	13478
				23	END GLASS GAS	SKET, 60" (1524mm)(NOT SHOWN	1) 1	GS-22547
∠4.	WELL FRONT PANEL	1	1234	20.	GE100 GA		., •	CC 2204/

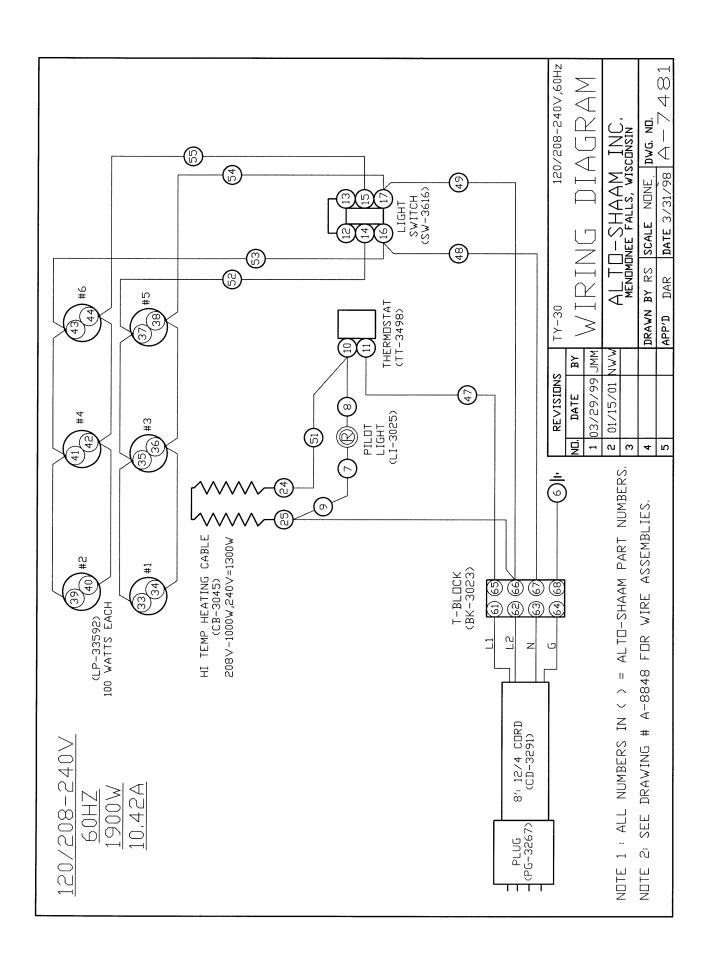


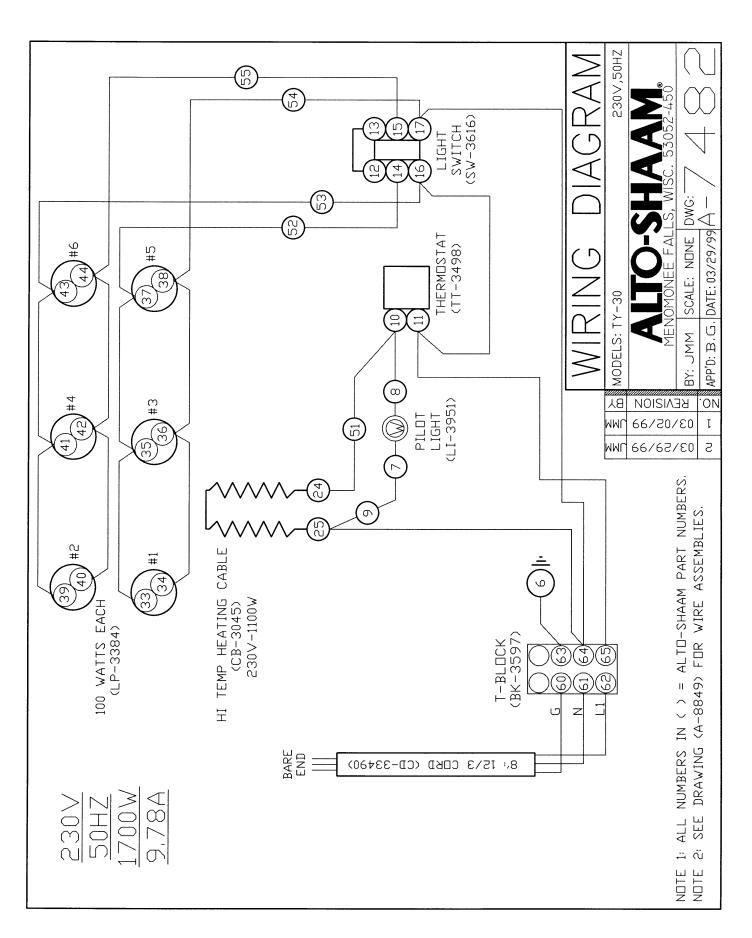
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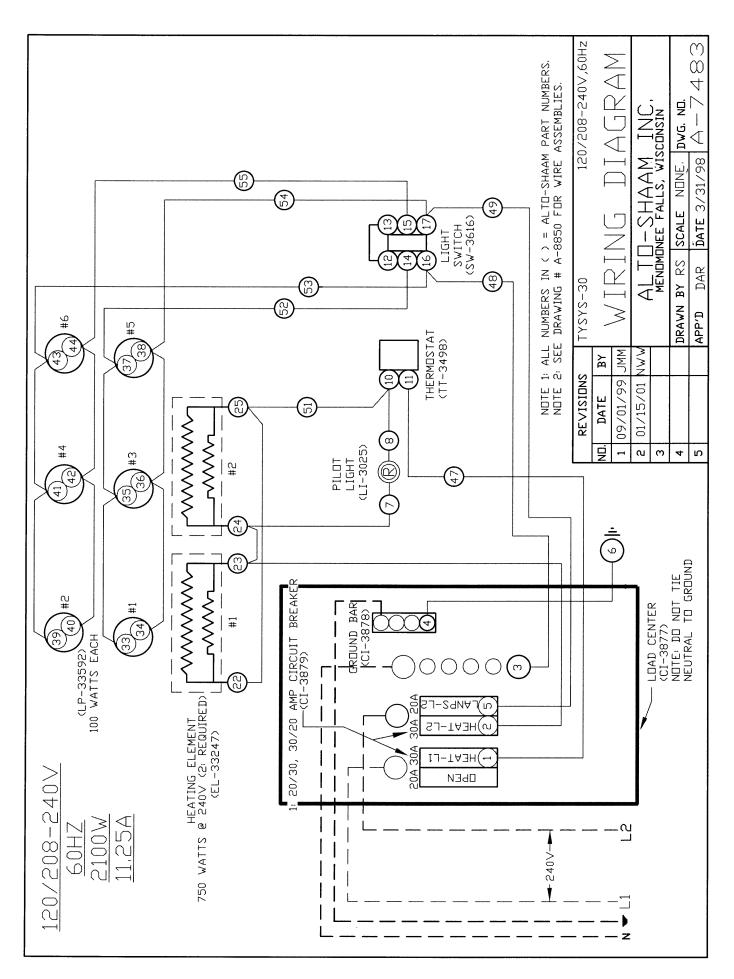


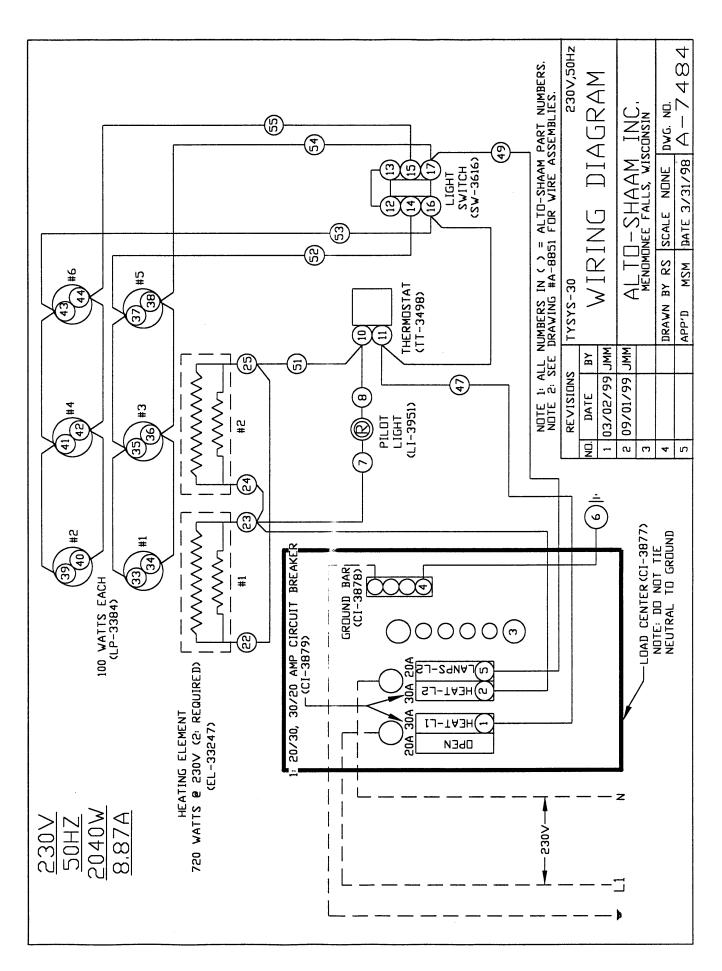
TYSYS-30/RM - Service Parts · see next page 12/22/00 PART DESCRIPTION оту A/S PT NO. PART DESCRIPTION QTY A/S PT NO. 17. BUMPER RAIL 13518 1 1. MOTOR MOUNT SUB ASSEMBLY, (NOT SHOWN) 1 14501 BUMPER RAIL MTG. SCREWS 5 SC-2077 1 MO-33383 BUMPER INSERT, 30"" (762mm) 1 BM-22721 WS-22094 MOTOR MOUNT MTG. FLAT WASHERS 8 18. INDICATOR LIGHT, 120V LI-3025 MOTOR MOUNT MTG. LOCK WASHERS WS-2294 INDICATOR LIGHT, 230V LI-3951 MOTOR MOUNT MTG. NUTS NU-2437 INDICATOR MOUNTING NUT NU-3335 2. SLIDING MOTOR MOUNT ASSEMBLY 14502 19. THERMOSTAT TT-3498 SLIDING MOUNT MTG. SCREWS SC-22144 THERMOSTAT BEZEL TT-3713 SLIDING MOUNT MTG. WASHERS 8 WS-23982 THERMOSTAT KNOB KN-3473 SLIDING MOUNT MTG. NUTS 8 NI J-23984 THERMOSTAT MTG. SCREWS SC-2254 SLIDING MOUNT MTG. SLEEVE BEARINGS BG-23975 THERMOSTAT MTG. WASHER WS-22025 20. LIGHT SWITCH SW-3616 3. BEARING PLATE ASSEMBLY (NOT SHOWN) 1 14494 RUBBER BOOT, 230V SL-2633 PLAIN SLEEVE PLATE BEARINGS 2 BG-23976 BEARING PLATE ASSB. MTG. SCREWS SC-22729 4 21. ROTISSERIE POWER SWITCH 1 SW-3409 BEARING PLATE ASSB. MTG. FLAT WASHERS 4 WS-22094 22. INNER TOP ASSEMBLY, 120V, 230V 1 15572 BEARING PLATE ASSB. MTG. LOCK WASHERS 4 WS-2294 INCLUDES: 2 SW-33271 4. DRIVE SPROCKET (NOT SHOWN) 2 SO-23569 DOOR SWITCH HG-23969 HINGE ASSEMBLIES SPROCKET BEARING BG-23976 HINGE ASSEMBLY MTG. SCREWS 8 SC-2425 SPROCKET SHAFT 1 SC-23977 STRUT PAK BODIES 2 13149 WS-23982 SPROCKET SPACER 1 95 LB. STRUTS, RED SU-24021 5. INNER DRIVE BEARING ASSEMBLY PIVOT PINS PI-23679 14860 HINGE ANCHOR PINS PI-23678 BEARING PLATE TO SPROCKET ASSEMBLY PIVOT HINGES HG-23816 MOUNTING NYLON WASHER (NOT SHOWN) WS-23982 1 END PLUGS PG-2899 BEARING PLATE TO SPROCKET NYLON BUSHINGS BU-2827 WS-23991 ASSEMBLY MTG. FLAT WASHER 23. BULBS, 120V 6 LP-33592 BEARING PLATE TO SPROCKET ASSEMBLY BULBS, 230V 6 LP-3384 MTG NUT 1 NIJ-23985 BULB RECEPTACLES, 230V RP-3955 6. MOTOR DRIVE BEARING (NOT SHOWN) BG-23642 **BULB RECEPTACLES, 120V** RP-3952 6 DRIVE BEARING MTG. NUTS NU-2215 4 24. GLASS CLAMP ASSEMBLY CM-23971 DRIVE BEARING MTG. WASHERS WS-2467 4 25. GLASS. FULL SERVICE GL-23965 DRIVE BEARING MTG. SCREWS SC-23670 26. OUTER TOP SPOT ASSEMBLY 14498 7. DRIVE LUG & SHAFT ASSEMBLY 1 SO-23646 OUTER TOP MOUNTING SCREWS 3 SC-2459 DRIVE LUG SPROCKET 1 SO-23569 27. GLASS FRAME HANDLE 13517 DRIVE LUG SPROCKET KEY 2 SO-23647 FRAME, GASKET, EXTRUSION, 54" (1372mm) FR-22496 8. IDLER SPROCKET SCREW SHAFT (NOT SHOWN) 1 SC-2162 28. RIGHT HAND GLASS DOOR ASSEMBLY 14496 IDLER SPROCKET LOCK WASHERS WS-2467 3 LEFT HAND GLASS DOOR ASSEMBLY 14495 IDLER SPROCKET SPACERS SP-23983 3 DOOR ASSEMBLY MOUNTING SCREWS 8 SC-2352 IDLER SPROCKET SO-23980 1 DOOR BUMPERS BM-22039 IDLER SPROCKET SLEEVE BEARING BG-23981 13497 DOOR REST DOOR REST MOUNTING SCREWS SC-2425 3 9. COMPRESSION SPRING (NOT SHOWN) SD-23974 DOOR EXTRUSION, 23-1/4" (591mm) FR-22496 COMPRESSION SPRING CLEVIS PIN PI-23978 DOOR SWITCH 2 SW-33271 COMPRESSION SPRING CLEVIS CLIP CL-23979 29. DRIVE TOWER COVER ASSEMBLIES 2 14497 DRIVE CHAIN CH-23993 DRIVE TOWER COVER MTG. SCREWS SC-2459 DRIVE CHAIN LINK CH-23640 30. PATCH END PANELS PE-23966 11. HEATING ELEMENTS 2 EL-33247 PANEL MOUNTING NUTS NU-2866 8 PANEL MOUNTING SCREWS 8 SC-23987 12. CIRCUIT LOAD CENTER (NOT SHOWN) 1 CI-3877 PANEL MOUNTING FLAT WASHERS WS-23725 10-32 X 1/2 SLOTTED MTG. SCREWS SC-2070 PANEL MOUNTING LOCK WASHERS 8 WS-2867 10-32 X 1/2 PHILLIP TRUSS MTG. SCREWS 4 SC-2661 31. LEFT HAND END GLASS, CLEAR GL-22479 10-32 MTG. HEX NUTS 4 NU-2215 #10 INTERNAL TOOTH MTG. LOCK WASHERS 4 WS-2467 32. RIGHT HAND END GLASS, CLEAR GL-22479 TANDEM CIRCUIT BREAKER CI-3879 33. LEVELING SCREWS/BOLTS SC-2242 CIRCUIT GROUND BAR KIT CI-3878 34. INSERT PAN 13508 CONDUIT TUBING, 9" (229mm) 1 TU-3874 35. ROTISSERIE SPINDLE ASSEMBLY 15292 CONDUIT MTG. CONNECTORS 2 CR-3293 36. ROTISSERIE BASKETS 5 BS-23645 13. FAN DEFLECTOR (NOT SHOWN) 13479 FAN, 120-230V 1 FA-3974 37. PAN DIVIDERS, LONG (NOT SHOWN) 3 11317 MOUNTING SCREWS SC-2661 PAN DIVIDERS, SHORT (NOT SHOWN) 6 11318 14. INSULATION - INNER WELL 3 IN-2003 38. CUSTOMER SIDE TOP DECOR 1 13478 INSULATION - UNDER WELL 1 IN-22364 39. END GLASS GASKET, 60" (1524mm) (NOT SHOWN) 2 GS-22547 16. CUTTING BOARD ASSEMBLY -INCLUDES: 14759 40. ROTISSERIE BALANCE RESET SWITCH 1 SW-33495 **CUTTING BOARD** 1 BA-23973 41. ROTISSERIE BALANCE BASIC SWITCH 1 SW-33494 CUTTING BOARD MTG. SCREWS 4 SC-24520 42. ROTISSERIE BALANCE RELAY 1 RL-33493 CUTTING BOARD PINS 2 PI-22508

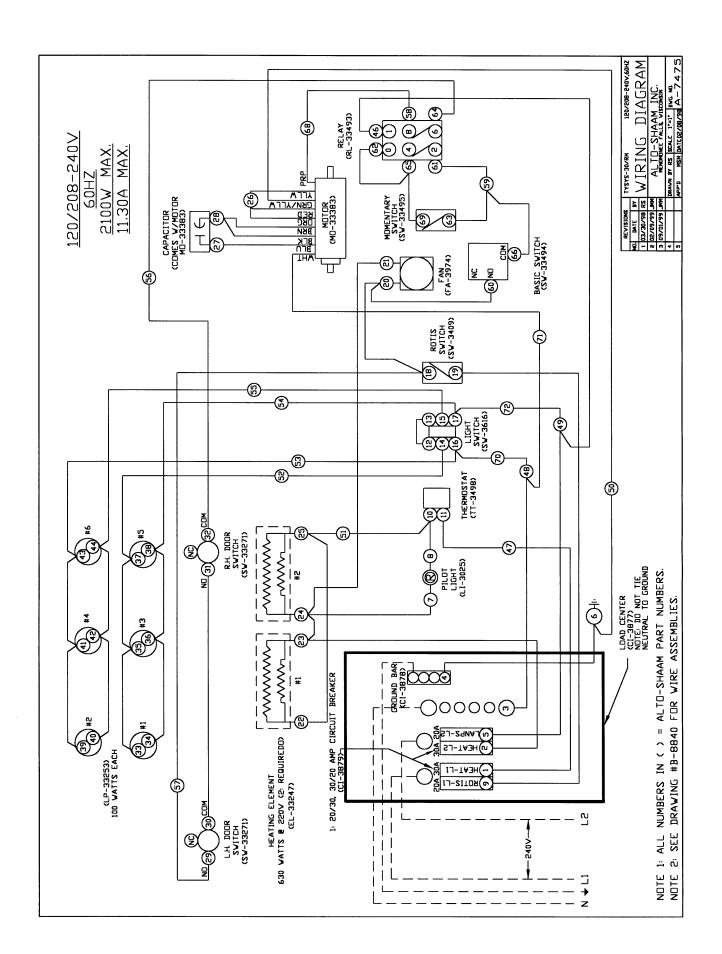


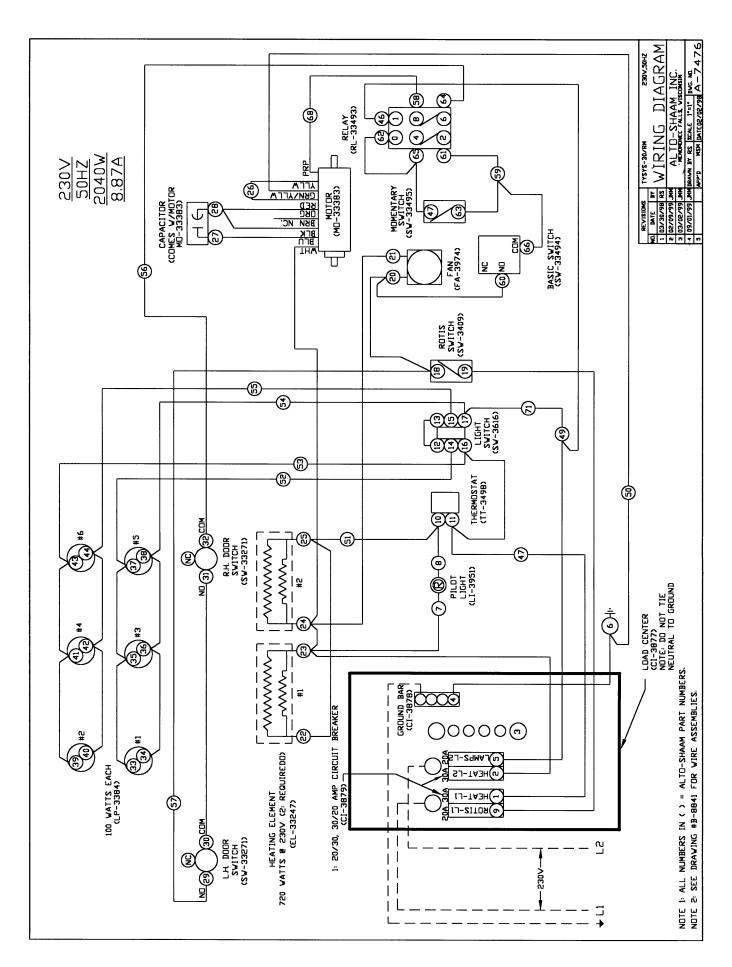












TRANSPORTATION DAMAGE and CLAIMS



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.

- 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.

- 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.
- 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:	
	U	

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

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