



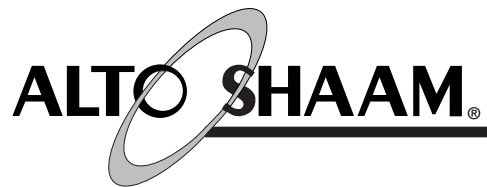
TECHNICAL DIAGRAMS

**ALTO-SHAAM®**

SC-24-2S

01706 353 633

[WWW.FOODSERVICESPARES.COM](http://WWW.FOODSERVICESPARES.COM)



# Merchandiser Countertop



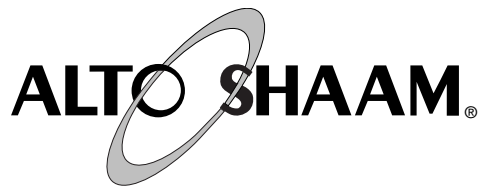
**Models:**  
**SC-24/2S**  
**SC-36/2S**



- **INSTALLATION**
- **OPERATION**
- **MAINTENANCE**



W164 N9221 Water Street • P.O. Box 450 • Menomonee Falls, Wisconsin 53052-0450 USA  
PHONE: 262.251.3800 • 800.558.8744 USA/CANADA FAX: 262.251.7067 • 800.329.8744 U.S.A. ONLY  
WEBSITE: [www.alto-shaam.com](http://www.alto-shaam.com)



## DELIVERY

This Alto-Shaam appliance has been thoroughly tested and inspected to insure only the highest quality unit is provided. Upon receipt, 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.*

This appliance, complete with unattached items and accessories, may have been delivered in one or more packages. Check to ensure that all standard items and options have been received with each model as ordered.

Save all the information and instructions packed with the appliance. 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.

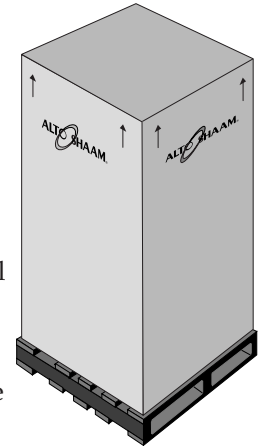
This manual must be read and understood by all people using or installing the equipment model. Contact the Alto-Shaam service department if you have any questions concerning installation, operation, or maintenance.

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

## UNPACKING

1. Carefully remove the appliance from the carton or crate.

**NOTE:** Do not discard the carton and other packaging material until you have inspected the unit for hidden damage and tested it for proper operation.



2. Read all instructions in this manual carefully before initiating the installation of this appliance.


### **DO NOT DISCARD THIS MANUAL.**


This manual is considered to be part of the appliance and is to be provided to the owner or manager of the business or to the person responsible for training operators. *Additional manuals are available from the Alto-Shaam service department.*


3. Remove all protective plastic film, packaging materials, and accessories from the appliance before connecting electrical power. Store any accessories in a convenient place for future use.

## SAFETY PROCEDURES AND PRECAUTIONS

Knowledge of proper procedures is essential to the safe operation of electrically and/or gas energized equipment. In accordance with generally accepted product safety labeling guidelines for potential hazards, the following signal words and symbols may be used throughout this manual.

 <b>DANGER</b>	Used to indicate the presence of a hazard that <b>will</b> cause severe personal injury, death, or substantial property damage if the warning included with this symbol is ignored.
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 <b>WARNING</b>	Used to indicate the presence of a hazard that <b>can</b> cause personal injury, possible death, or major property damage if the warning included with this symbol is ignored.
--	--

 <b>CAUTION</b>	Used to indicate the presence of a hazard that can or will cause minor or moderate personal injury or property damage if the warning included with this symbol is ignored.
--	--

<b>CAUTION</b>	Used to indicate the presence of a hazard that can or will cause minor personal injury, property damage, or a potential unsafe practice if the warning included with this symbol is ignored.
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<b>NOTE:</b>	Used to notify personnel of installation, operation, or maintenance information that is important but not hazard related.
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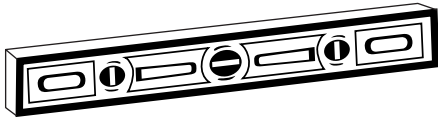
1. This appliance is intended to cook, hold or process foods for the purpose of human consumption. No other use for this appliance is authorized or recommended.
2. This appliance is intended for use in commercial establishments where all operators are familiar with the purpose, limitations, and associated hazards of this appliance. Operating instructions and warnings must be read and understood by all operators and users.
3. Any troubleshooting guides, component views, and parts lists included in this manual are for general reference only and are intended for use by qualified technical personnel.
4. This manual should be considered a permanent part of this appliance. This manual and all supplied instructions, diagrams, schematics, parts lists, notices, and labels must remain with the appliance if the item is sold or moved to another location.

# INSTALLATION

## SITE INSTALLATION

The appliance, complete with unattached items and accessories should be checked to ensure all the ordered items have been received.

This Alto-Shaam appliance is designed for the purpose of maintaining hot food at a temperature for safe consumption. The unit must be installed on a level surface in a location that will permit the equipment to function for its intended purpose and allow adequate access for proper cleaning and maintenance.



Level the appliance from side-to-side and front-to-back with the use of a spirit level.

Locate the merchandiser indoors with a normal room temperature of 68-70°F (20-21°C) in an area where it will not be affected by constant cool air current from air conditioners, open doors and windows, etc.

### INSTALLATION REQUIREMENTS

Unit must not be kept in any area where it may be affected by steam, grease, dripping water, high temperatures, or any other severely adverse conditions.

### CLEARANCE REQUIREMENTS

3" (76mm) at top for ventilation; 1" (25mm) at sides

### WEIGHT

	SC-24/2S	SC-36/2S
<b>NET</b>	85 lb est. (39 kg)	117 lb (53 kg)
<b>SHIP</b>	215 lb est. (98 kg)	270 lb est. (122 kg)
<b>CRATE</b>	38" x 33" x 36" est. (965mm x 838mm x 914mm)	38" x 50" x 36" (965mm x 1270mm x 914mm) (H x W x D)



## CAUTION

TO PREVENT PERSONAL INJURY,  
USE CAUTION WHEN MOVING OR  
LEVELING THIS APPLIANCE.

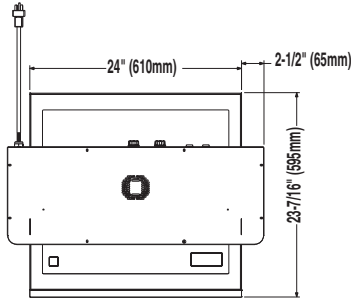


## DANGER

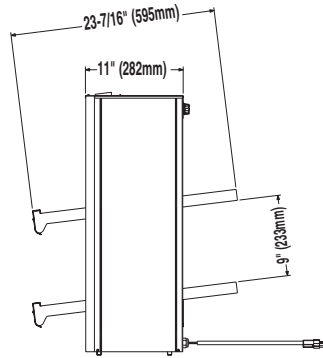
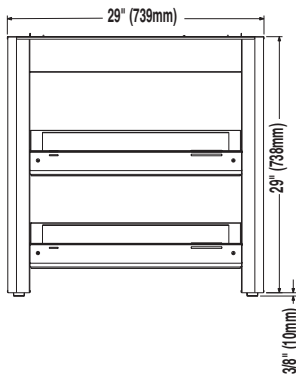
IMPROPER INSTALLATION, ALTERATION,  
ADJUSTMENT, SERVICE OR MAINTENANCE  
COULD RESULT IN SEVERE INJURY, DEATH  
OR CAUSE PROPERTY DAMAGE.

# INSTALLATION

## SITE INSTALLATION



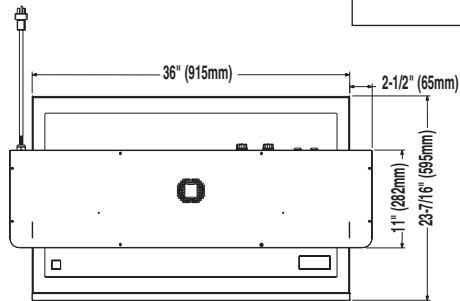
**SC-24/2S**



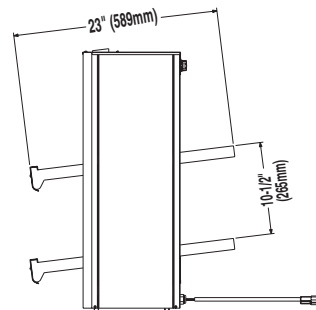
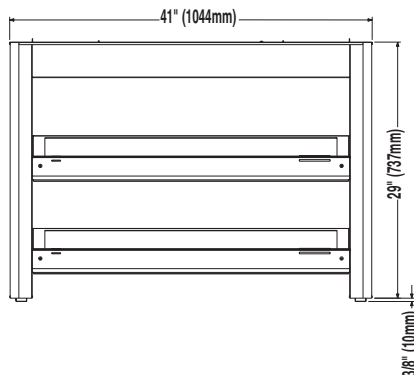
### Exterior Dimensions

#### OPTIONS & ACCESSORIES

<b>SC-24</b> Divider Bar Kit	5004543
<b>SC-36</b> Divider Bar Kit	5004544
<b>SC-24 &amp; 36</b> Shelf, wire divider	SH-26821



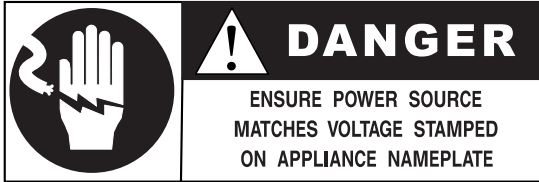
**SC-36/2S**



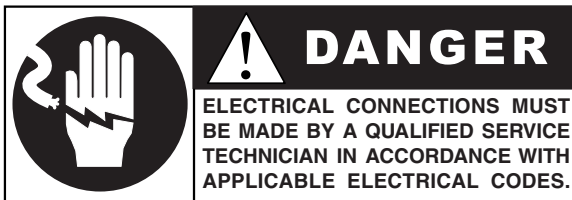
# INSTALLATION

## ELECTRICAL CONNECTION

1. An identification tag is permanently mounted on the unit.



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



**230V:** To prevent an electrical shock hazard between the appliance and other appliances or metal parts in close vicinity, an equalization-bonding stud is provided. An equalization bonding lead must be connected to this stud and the other appliances / metal parts to provide sufficient protection against potential difference. The terminal is marked with the following symbol.



**NOTE:** The appliance must be connected to an electrical circuit that is protected by an external GFCI outlet.



ELECTRICAL						
	VOLTAGE	PHASE	CYCLE/HZ	AMPS	kW	
SC-24/2S	120	1	50/60	12.0	1.4	
	230	1	50/60	5.5	1.15	
SC-36/2S	120	1	50/60	16.0	1.9	
	230	1	50/60	8.5	1.95	

# OPERATION

## USER SAFETY INFORMATION

This appliance is intended for use in commercial establishments by qualified personnel who are familiar with the purpose, limitations, and associated hazards of this appliance. Operating instructions and warnings must be read and understood by all operators and users.

- ✧ A clearance of 3" (76mm) is needed at the top of the unit for ventilation. Do not block the top vent by covering with utensils, signs, plates, etc.
- ✧ To avoid personal injury and damage to the unit, treat glass with care. *Remember — glass can shatter.*
- ✧ Do not allow liquids or food to come in direct contact with the glass shelves.
- ✧ It is recommended that plastic or paper containers be used. Pans or dishes can scratch the glass.
- ✧ Be certain only hot foods in appropriate heat tested containers are used.
- ✧ Be careful not to overheat as this may cause some containers to melt.
- ✧ Do not stack containers.
- ✧ Use hand protection when handling hot items.

## HEATING CHARACTERISTICS


The heated upper glass surface on each shelf provides even heat transfer to hot food in heat tested containers that are held in direct contact with the glass top.

### PRODUCT CAPACITY

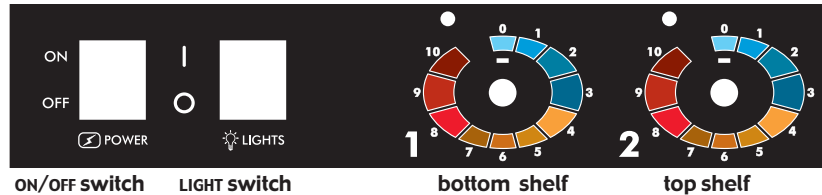
FOR USE WITH PRE-PACKAGED FOODS ONLY

**SC-24/2S:** 12 wrapped sandwiches per shelf

**SC-36/2S:** 24 wrapped sandwiches per shelf

	<b>CAUTION</b>
	METAL PARTS OF THIS EQUIPMENT BECOME EXTREMELY HOT WHEN IN OPERATION. TO AVOID BURNS, ALWAYS USE HAND PROTECTION WHEN OPERATING THIS APPLIANCE.

# OPERATION



## BEFORE INITIAL USE:

Before operating, clean the exterior with a clean, damp cloth and mild soap solution. Rinse carefully. Glass cleaner can be used on the glass.

- 1. Make sure the unit is connected to the appropriate power source.**
- 2. Press power and light switches on.**
- 3. Turn thermostat(s) to a predetermined number and preheat for 30 minutes.**

Each shelf has its own thermostat control numbering from 0 to 10. When the thermostat is turned clockwise to the determined number, the indicator light will illuminate and will remain lit as long as the shelf is calling for heat.

The indicator light will go OUT when the temperature on the glass top reaches the set number determined by the operator. It will then cycle "ON/OFF" at this holding point.

The shelves will hold a steady even heat as assigned. The user must determine what set point can be used regarding each food item held on its corresponding shelf. It is recommended that a similar food product be placed on each shelf.

Always use the top shelf for the highest heat assignment, and the bottom shelf for the lowest heat assignment.

The proper temperature range for the food being held will depend on the food type, the packaging, and the quantity of product.

- 4. Load prepackaged hot foods into the merchandiser.**

Before loading food into the unit, use a pocket-type meat thermometer to make certain all products have reached an internal temperature of 160° F (71°C) or higher. If any food product is not at proper serving temperature, use a Halo Heat cooking and holding oven or Combitherm Oven to bring the product within the correct temperature range.

- 5. Keep hot foods looking fresh.**

Occasionally stir or rotate foods as needed. Wipe spills immediately to assure maximum eye appeal and minimize end-of-the-day cleanup.

When holding food for prolonged periods, it is advisable to periodically check the internal temperature of each item to assure maintenance of the proper temperature range.

# OPERATION

## 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 or dehydration.

When product is removed from a high temperature cooking environment for immediate transfer into equipment with the lower temperature required for hot food holding, condensation can form on the outside of the product and on the inside of plastic containers used in self-service applications. Allowing the product to release the initial steam and heat produced by high temperature cooking can alleviate this condition. To preserve the safety and quality of freshly cooked foods however, a maximum of 1 to 2 minutes must be the only time period allowed for the initial heat to be released from the product.

Use a metal-stemmed thermometer to measure the internal temperature of the product being held. Adjust the thermostat setting to achieve the best overall setting based on internal product temperature.

HOLDING TEMPERATURE RANGE		
	FAHRENHEIT	CELSIUS
<b>MEAT</b>		
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
<b>POULTRY</b>		
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
<b>FISH/SEAFOOD</b>		
FISH — Baked/Fried	160° — 175°F	71° — 79°C
LOBSTER	160° — 175°F	71° — 79°C
SHRIMP — Fried	160° — 175°F	71° — 79°C
<b>BAKED GOODS</b>		
BREADS/ROLLS	120° — 140°F	49° — 60°C
<b>MISCELLANEOUS</b>		
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.		

# CARE and CLEANING

## CLEANING AND PREVENTIVE MAINTENANCE

### PROTECTING STAINLESS STEEL SURFACES



It is important to guard against corrosion in the care of stainless steel surfaces. Harsh, corrosive, or inappropriate chemicals can completely destroy the

protective surface layer of stainless steel. Abrasive pads, steel wool, or metal implements will abrade surfaces causing damage to this protective coating and will eventually result in areas of corrosion. Even water, particularly hard water that contains high to moderate concentrations of chloride, will cause oxidation and pitting that result in rust and corrosion. In addition, many acidic foods spilled and left to remain on metal surfaces are contributing factors that will corrode surfaces.

Proper cleaning agents, materials, and methods are vital to maintaining the appearance and life of this appliance. Spilled foods should be removed and the area wiped as soon as possible but at the very least, a minimum of once a day. Always thoroughly rinse surfaces after using a cleaning agent and wipe standing water as quickly as possible after rinsing.

### CLEANING AGENTS

Use non-abrasive cleaning products designed for use on stainless steel surfaces. Cleaning agents must be chloride-free compounds and must not contain quaternary salts. Never use hydrochloric acid (muriatic acid) on stainless steel surfaces. Always use the proper cleaning agent at the manufacturer's recommended strength. Contact your local cleaning supplier for product recommendations.

### CLEANING MATERIALS

The cleaning function can usually be accomplished with the proper cleaning agent and a soft, clean cloth. When more aggressive methods must be employed, use a non-abrasive scouring pad on difficult areas and make certain to scrub with the visible grain of surface metal to avoid surface scratches. Never use wire brushes, metal scouring pads, or scrapers to remove food residue.

<p>NO SCRAPERS NO WIRE BRUSHES NO STEEL PADS</p>	<p><b>CAUTION</b></p> <p>TO PROTECT STAINLESS STEEL SURFACES, COMPLETELY AVOID THE USE OF ABRASIVE CLEANING COMPOUNDS, CHLORIDE BASED CLEANERS, OR CLEANERS CONTAINING QUATERNARY SALTS. NEVER USE HYDROCHLORIC ACID (MURIATIC ACID) ON STAINLESS STEEL. NEVER USE WIRE BRUSHES, METAL SCOURING PADS OR SCRAPERS.</p>
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## CARE and CLEANING

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



4. Avoid the use of abrasive cleaning compounds, chloride based cleaners, or cleaners containing quaternary salts on stainless steel. Never use hydrochloric acid (muriatic acid) on stainless steel.



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

### THOROUGHLY CLEAN THE APPLIANCE DAILY

1. Disconnect the appliance from power source, and let cool.
2. Do not clean the glass when hot.  
The glass should be washed regularly with fresh warm water, a mild detergent, and a clean, non-abrasive cloth. Glass cleaner can be used.
3. To help maintain the protective film coating on any polished stainless steel, clean the exterior of the unit with a cleaner recommended for stainless steel surfaces. Spray the cleaning agent on a cloth and wipe with the grain of the stainless steel.



# SANITATION

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 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:

**Center for Food Safety and Applied Nutrition  
Food and Drug Administration  
1-888-SAFEFOOD**

INTERNAL FOOD PRODUCT TEMPERATURES		
<b>HOT FOODS</b>		
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)
<b>COLD FOODS</b>		
DANGER ZONE	ABOVE 40°F	(ABOVE 4°C)
SAFE ZONE	36°F TO 40°F	(2°C TO 4°C)
<b>FROZEN FOODS</b>		
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)

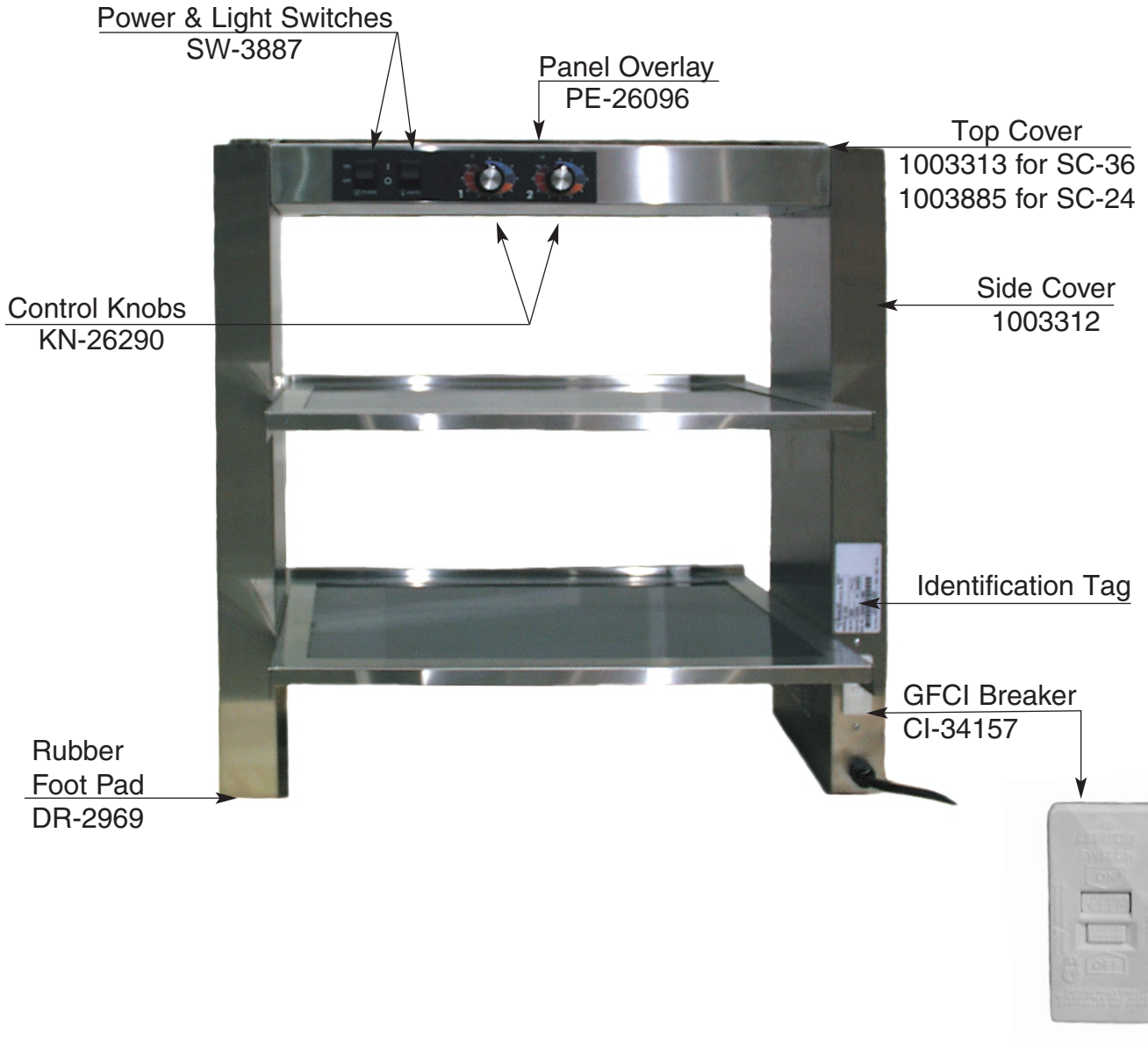
# SERVICE

<b>Description</b>	<b>Part Number</b>	
	<b>SC-24</b>	<b>SC-36</b>
Side panel	1003312	1003312
Top cover	1003885	1003313
Guard, front shelf	1003880	1003319
Control	BA-34294	BA-34294
Power Supply	BA-33554	BA-33554
Terminal Block	BK-3019	BK-3019
Thermistor block, shelf	BK-33546	BK-33546
Cord Bushing	BU-3964	BU-3964
Cordset, 12/3 SJO, 20A-125V plug	CD-3397	CD-3397
Cordset, Euro CEE, 7/7 HO7RN-FCG2, 230V	CD-33882	CD-33882
Circuit breaker, GFCI, 20 Amp	CI-34157	CI-34157
Rubber foot pad	DR-2969	DR-2969
Fan	FA-3973	FA-3973
Fan, 230V	FA-3974	FA-3974
Glass shelf, heated	GL-26340	GL-26512
Glass shelf, heated, 230V	GL-26549	GL-26212
Control Knob	KN-26290	KN-26290
Lamp ballast	LP-34135	LP-34135
Lamp ballast, 230V	LP-34123	LP-34123
Lamp bulb	LP-34151	LP-34156
Lamp bulb, 230V	LP-33822	LP-33822
Panel Overlay	PE-26096	PE-26096
Lamp receptacle	RP-34160	RP-34160
Ground Screw	SC-2190	SC-2190
Switch, rocker	SW-3887	SW-3887
Divider bar kit, optional	5004543	5004544

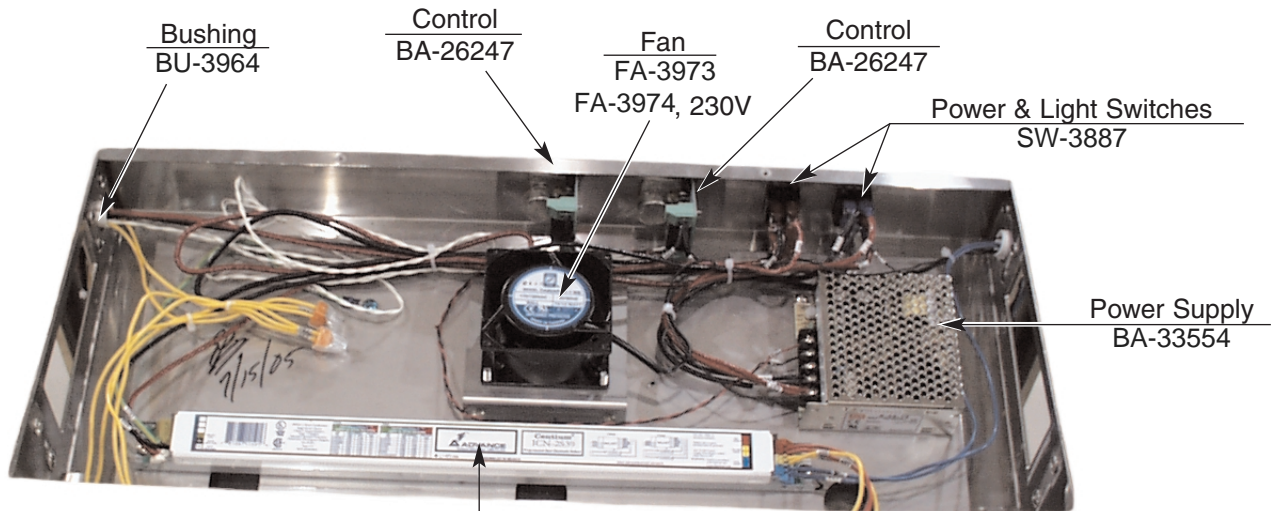


# SERVICE

## SC-36/2S Operator Side

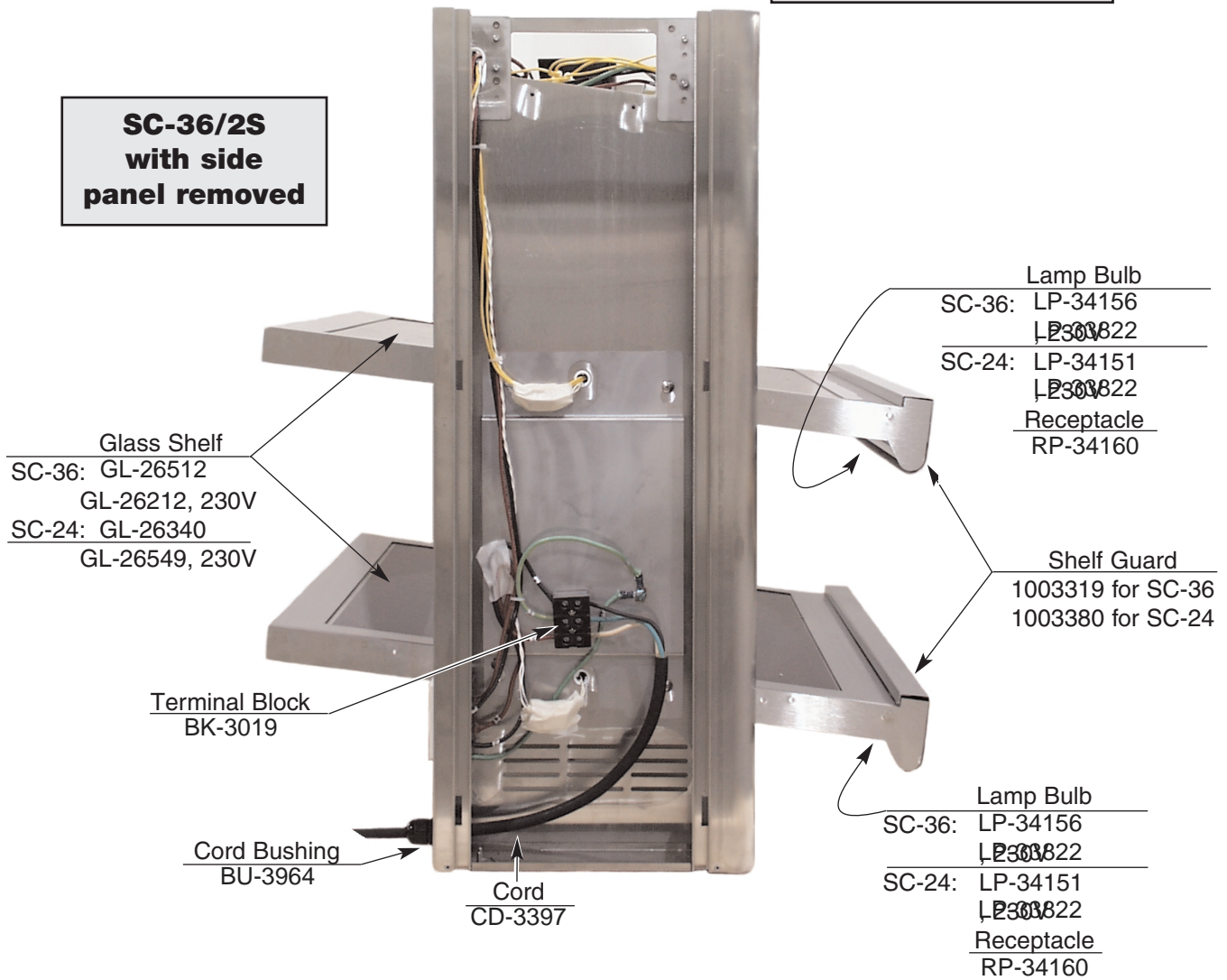


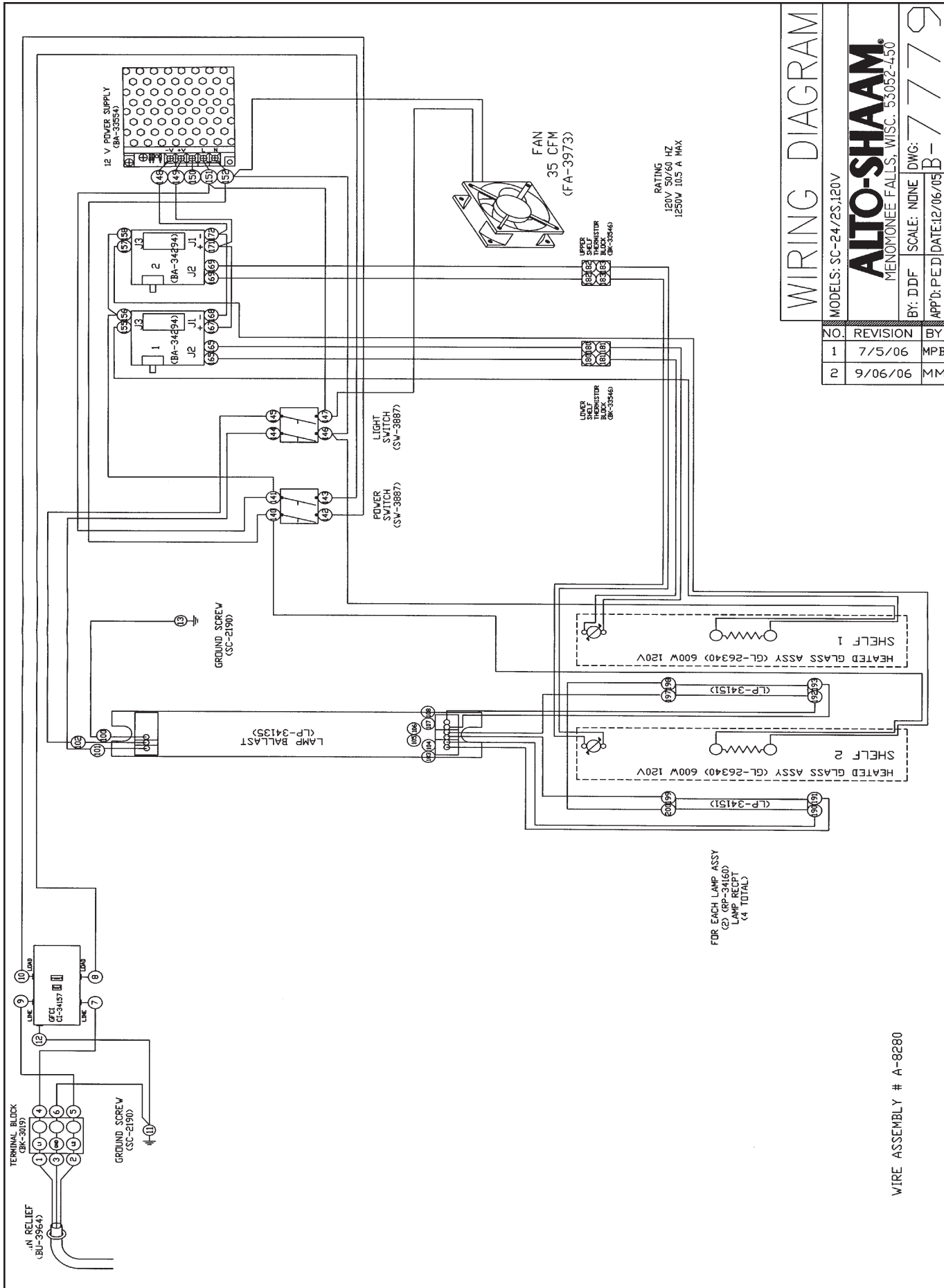
# SERVICE



**SC-36/2S  
with top panel  
removed**

**SC-36/2S  
with side  
panel removed**



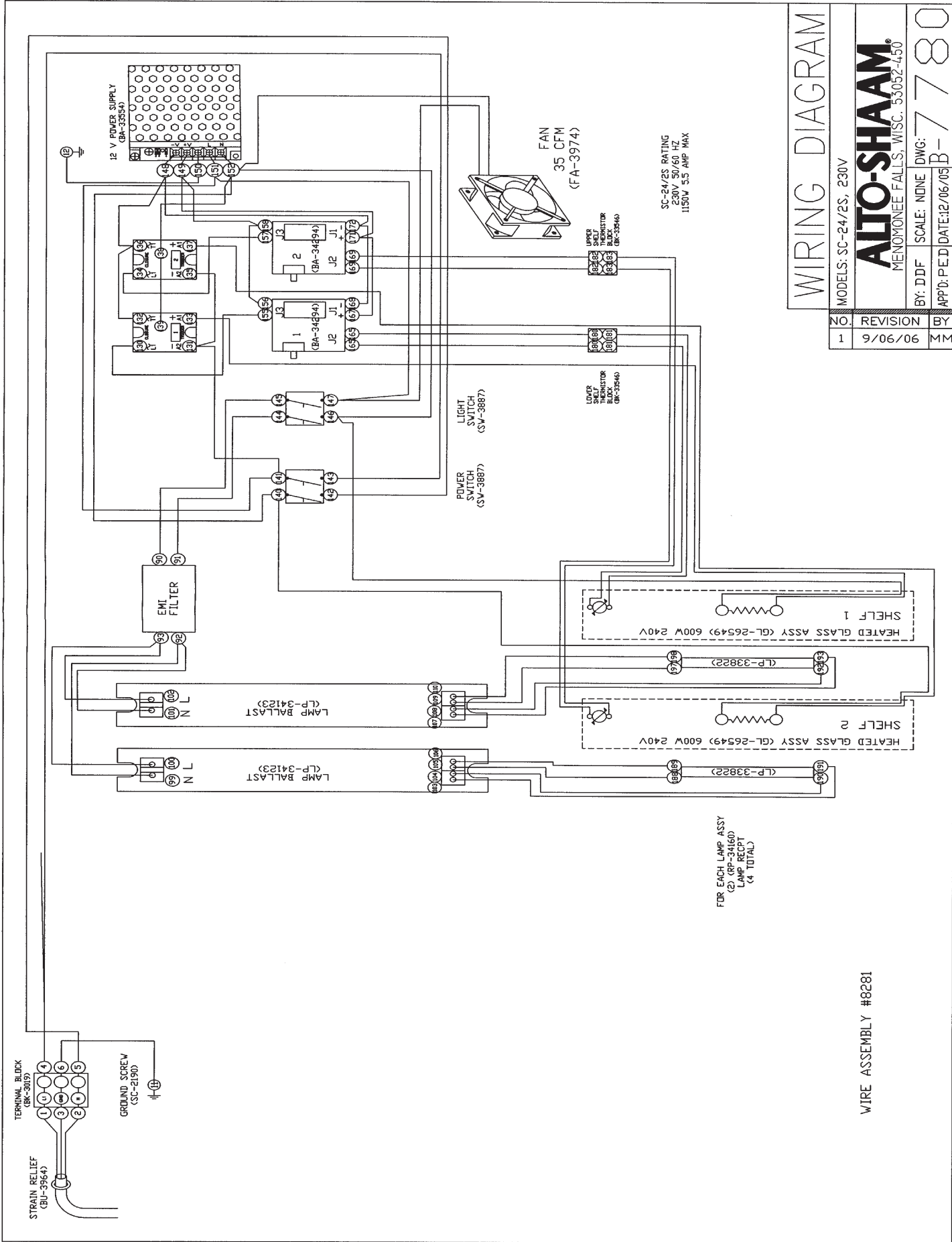


# WIRING DIAGRAM

MODELS: SC-24/2S,120V  
**ALTO-SHAAM**  
 MENOMONEE FALLS, WISC. 53052-450  
 BY: DDF SCALE: NONE DWG: B-7779  
 APP'D: P.E.D. DATE: 12/06/05

NO.	REVISION	BY
1	7/5/06	MPB
2	9/06/06	MM

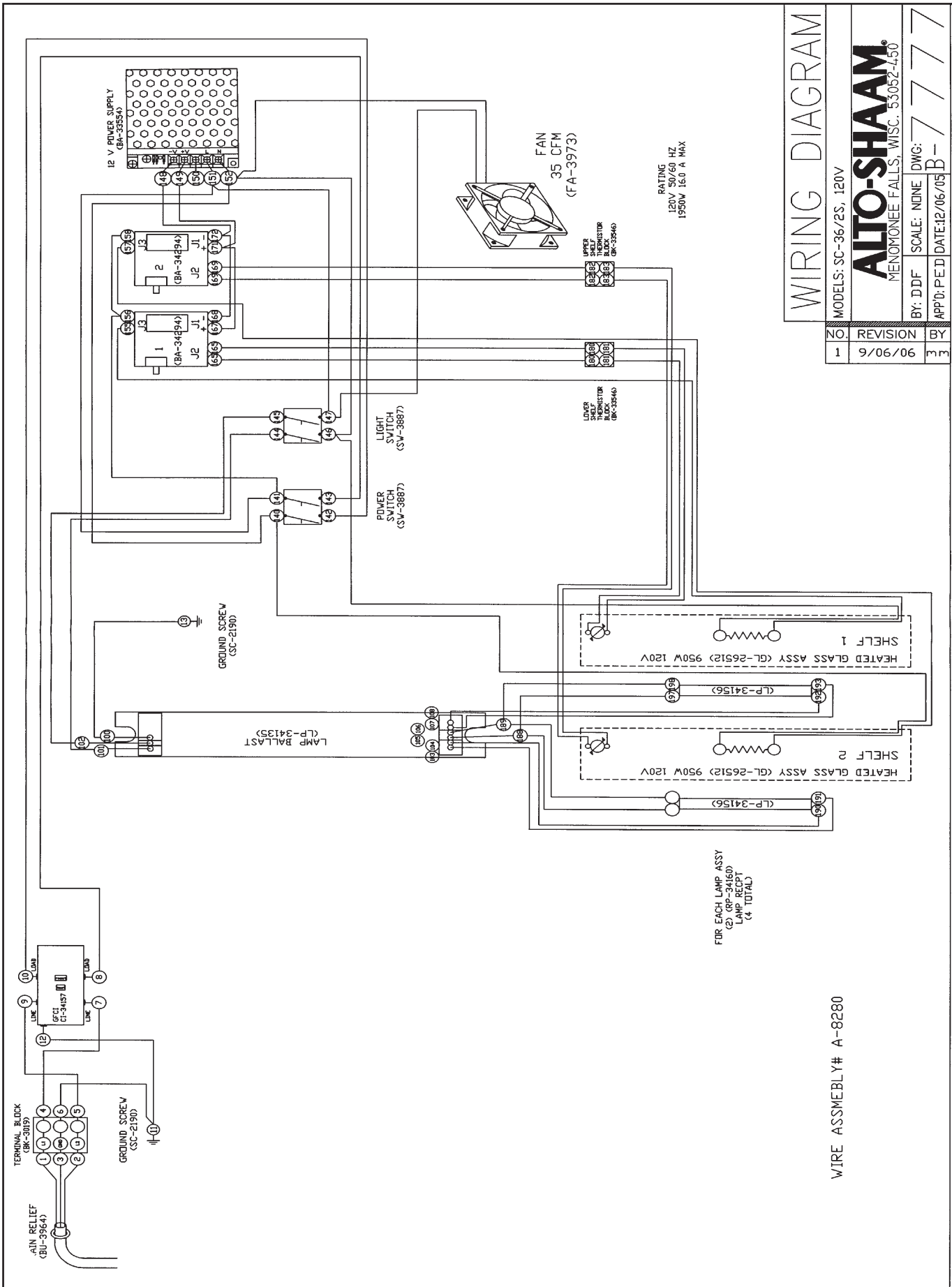
WIRE ASSEMBLY # A-8280



# WIRING DIAGRAM

MODELS: SC-24/2S, 230V	
<b>ALTO-SHAAM</b> MENOMONEE FALLS, WISC. 53052-450	
BY: DDF	SCALE: NONE
APP'D: P.E.D	DATE: 12/06/05
NO. 1	REVISION
1	9/06/06
BY: MM	DWG: B-7780

WIRE ASSEMBLY #8281



# WIRING DIAGRAM

MODELS: SC-36/2S, 120V

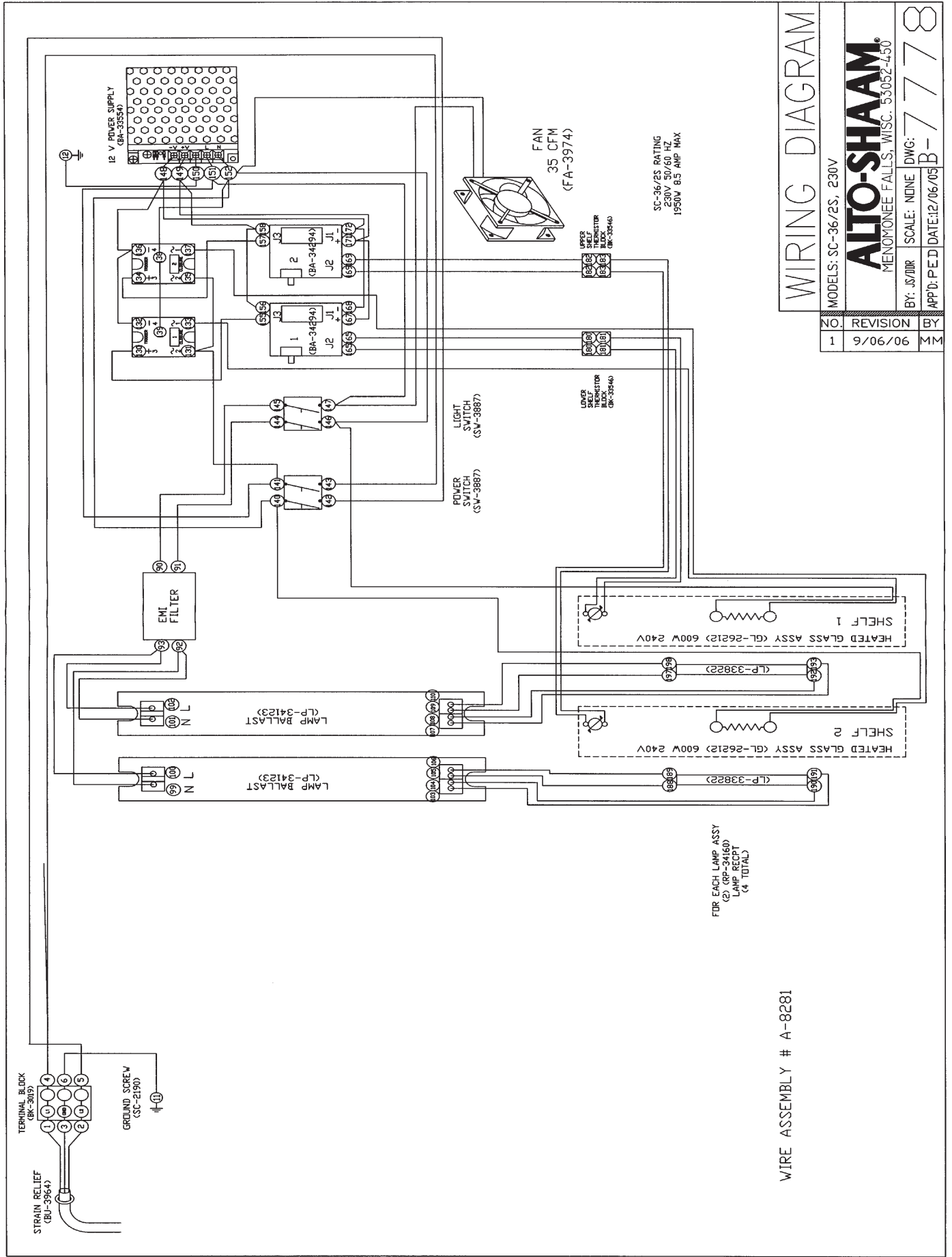
**ALTO-SHAAM**  
 MENOMONEE FALLS, WISC. 53052-450

NO.	REVISION	BY
1	9/06/06	3

BY: D.D.F. SCALE: NONE DWG: 7777  
 APP'D: P.E.D. DATE: 12/06/05 B-7777

WIRE ASSMELY# A-8280

FOR EACH LAMP ASSY  
 (2) GP-34160  
 LAMP RECP  
 (4 TOTAL)



WIRE ASSEMBLY # A-8281

# WIRING DIAGRAM

MODELS: SC-36/2S, 230V

NO.	REVISION	BY
1	9/06/06	MM

BY: JS/JMR SCALE: NONE DWG: B-7778

APP'D: P.E.J DATE: 12/06/05

ALTO-SHAM®  
MENOMONEE FALLS, WISC. 53052-450

## 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 Alto-Shaam's 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. Alto-Shaam will bear normal labor charges performed during standard business hours, and excluding overtime, holiday rates or any additional fees.

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

However, the heating element on Halo Heat® cook/hold ovens and the refrigeration compressor on Alto-Shaam Quickchillers™ are warranted for a period of five (5) years from installation. The labor warranty is the same as stated above; namely, for one (1) year from installation or fifteen (15) months from the shipping date, whichever occurs first.

### 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 including, but not limited to, equipment subjected to harsh or inappropriate chemicals including, but not limited to, compounds containing chloride or quaternary salts, poor water quality, or equipment with missing or altered serial numbers.
5. Damage incurred as a direct result of poor water quality, inadequate maintenance of steam generators and/or surfaces affected by water quality. Water quality and required maintenance of steam generating equipment is the responsibility of the owner/operator.
6. Damage caused by use of any cleaning agent other than Alto-Shaam's Combitherm® Cleaner including, but not limited to, damage due to chlorine or other harmful chemicals. Use of Alto-Shaam's Combitherm® Cleaner on Combitherm® ovens is highly recommended.
7. Any losses or damage resulting from malfunction, including loss of product or consequential or incidental damages of any kind.
8. 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 a particular purpose. In no event shall Alto-Shaam be liable for loss of use, loss of revenue or profit, or loss of product, or for any indirect or consequential damages. No person except an officer of Alto-Shaam, Inc. is authorized to modify this warranty or to incur on behalf of Alto-Shaam any other obligation or liability in connection with Alto-Shaam equipment.

**ALTO-SHAAM, INC.**

RECORD THE MODEL AND SERIAL NUMBER OF THE APPLIANCE FOR EASY REFERENCE.  
ALWAYS REFER TO BOTH MODEL AND SERIAL NUMBER IN ANY CONTACT WITH ALTO-SHAAM REGARDING THIS APPLIANCE.

Model: \_\_\_\_\_ Date Installed: \_\_\_\_\_  
Voltage: \_\_\_\_\_ Purchased From: \_\_\_\_\_  
Serial Number: \_\_\_\_\_

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