



Instruction Manual

Astro Pop 16oz

Model No. 2023E, 2023EN, 2023XE, 2023XEN



GOLD MEDAL® PRODUCTS CO.

10700 Medallion Drive, Cincinnati, Ohio 45241-4807 USA



SAFETY PRECAUTIONS

	⚠ DANGER Machine must be properly grounded to prevent electrical shock to personnel. Failure to do so could result in serious injury, or death. Do NOT immerse any part of this equipment in water. Do NOT use excessive water when cleaning. Keep cord and plug off the ground and away from moisture. Always unplug the equipment before cleaning or servicing. 008GEND1012
	⚠ WARNING To avoid burns, do NOT touch heated surfaces. Do NOT place or leave objects in contact with heated surfaces. (Gold Medal Products does not assume any liability for injury due to careless handling and/or reckless operation of this equipment.) 009GHW1012
	⚠ WARNING ALWAYS wear safety glasses when servicing this equipment. 010GENW1012
	⚠ WARNING Any alterations to this equipment will void the warranty and may cause a dangerous situation. NEVER make alterations to the equipment. Make sure all machine switches are in the OFF position before plugging the equipment into the receptacle. 011GENW1012
	⚠ CAUTION Do NOT allow direct contact of this equipment by the public when used in food service locations. Only personnel trained and experienced in the equipment operation may operate this equipment. Carefully read all instructions before operation. 012GENC1012
	⚠ CAUTION This machine is NOT to be operated by minors. Minors are classified as anyone under the age of 18. 007GENC1012

NOTE: Improvements are always being made to Gold Medal Products' equipment. This information may not be the latest available for your purposes. It is critical that you call Gold Medal Products technical Service Department at 1-800-543-0862 for any questions about your machine operations, replacement parts, or any service questions.

INSTALLATION INSTRUCTIONS

CHECKING SHIPMENT

Unpack all cartons and check thoroughly for any damage that may have occurred during transit. Damage claims should be filed immediately with the transportation company.

SETUP

Your new 16 oz. Astro-Pop is completely assembled and tested at the factory. Remove all packing material and tape before starting operation.

ELECTRICAL REQUIREMENTS

2023E / 2023EN: 120V, 2784W, 60Hz

2023XE / 2023XEN: 230V, 2784W, 50Hz

	⚠ DANGER
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Your electrician must furnish sufficient power for proper machine operation. We recommend this popper be on a dedicated and protected circuit. Failure to wire properly will void the warranty and may result in damage to the machine.

It is Gold Medal Products Company's recommendation that this machine be plugged directly into a wall outlet. The use of extension cords is not recommended due to safety concerns and may cause sacrificed and/or reduced performance.

BEFORE PLUGGING IN YOUR MACHINE

1. Make sure that the wall outlet can accept the (3) prong grounded power supply cord.
2. The wall outlet must have the proper polarity. If in doubt have a competent electrician inspect the outlet and correct if necessary.

CONTROLS AND THEIR FUNCTIONS

Oil System Master Switch

Sends power to the oil pump. The warmer/blower on the oil pump is activated. The warmer/blower on the oil pump will keep coconut popping oil in liquid form if the doors on the base are kept closed. It may be desirable to keep this switch on at night if you have problems keeping the coconut oil liquefied. Coconut oil will congeal at temperatures below approximately 76° F [24° C].

Red Oil Dispense Momentary Switch

When pushed, this will dispense the predetermined amount of oil into the kettle.

Light and Warmer Switch

This switch operates the interior light and the forced air popcorn crisping system.

Kettle Motor Switch

This switch operates the popcorn agitator motor. This switch must be *on* at all times when popcorn (popped and un-popped) is present in the kettle. This switch activates the exhaust fan.

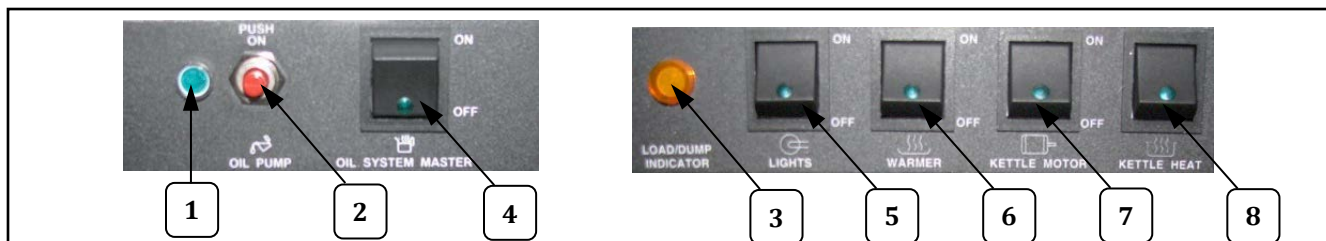
Kettle Heat Switch

This switch turns on the heat elements located in the popcorn kettle by sending power to the Big Eye electronic control system.

Yellow Light and Audible Sound

The Astro-Pop is equipped with the state of the art *Big Eye* electronic control that “watches your popcorn machine” to deliver optimum popping performance. The *Big Eye* control will signal the operator to:

1. Load the corn and oil *or*
2. Dump the popped corn from the kettle *or*
3. Turn off the kettle heat switch if they are done popping corn



Item	Part No.	Model(s)	Part Description	Qty.
1	48660	2023E-EN	125V GREEN PILOT LIGHT	1
	48660EX	2023XE-XEN	PILOT LIGHT, 250V GREEN	
2	41031	ALL	OIL PUMP SWITCH	1
3	55039	2023E-EN	125V AMBER PILOT LIGHT	1
	55039EX	2023XE-XEN	PILOT LIGHT, AMBER 230V	
4	42798	ALL	LIGHTED ROCKER SWITCH	5
5			LIGHTED ROCKER SWITCH	
6			LIGHTED ROCKER SWITCH	
7			LIGHTED ROCKER SWITCH	
8			LIGHTED ROCKER SWITCH	



AMOUNT OF POPCORN AND OIL

Recommended Amounts

The 16 oz. Astro-Pop is equipped with a 16 oz. corn measure cup (Part No. 68050). Gold Medal Products Company recommends the use of flavored and colored coconut oil. Coconut oil does not leave black deposits in the kettle like other oils.

Corn Charge – 16 Oz (Use the supplied corn measure cup.)

Oil Charge – 4-5 Oz

Flavacol (Salt) – 4 Teaspoons (Use the supplied salt scoop.)



POPPING INSTRUCTIONS

Instructions

1. Turn both the Kettle Heat and Kettle Stir Motor switches to the on position making sure that the (2) gears are engaged.
2. Wait until the Yellow Light and Audible Signal activate.
3. Load both a full corn/oil charge and Flavacol Seasoning Salt into the kettle. Close the lids.
4. When the corn has finished popping, the Yellow Light and Audible Signal will tell you to dump the kettle.

Remember

If the Yellow Load – Dump Light is turned on and the signal is sounding, one of the following actions should be taken:

1. Load the corn and oil
2. Dump the popped corn from the kettle
3. Turn off the Kettle Heat Switch when popping of corn is complete

On the final kettle of corn, it is a good idea to turn the Kettle Heat Switch off just as the lids are forced open by the popping corn. This procedure saves electricity since the kettle has plenty of heat, and eliminates smoke and odor from any oil residue that remains after you have finished popping.

When you are finished popping, make sure Kettle Heat and Kettle Motor Switches are turned off.

NEVER LEAVE THE HEAT ON WHEN YOU ARE NOT POPPING CORN!!



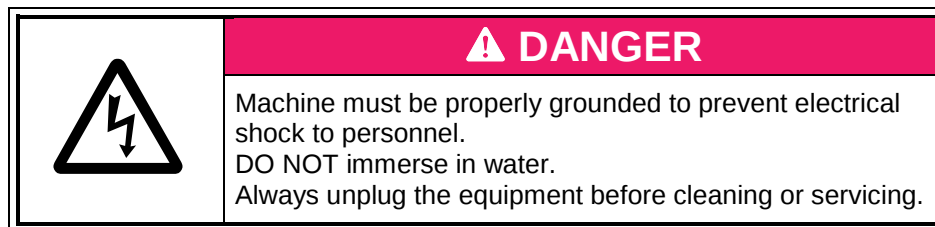
CARE AND CLEANING

Clean the Kettle Daily

1. As you pop corn, wipe the kettle with a clean cloth. It is easy to keep the outside clean when the kettle is warm and the oil is not baked on.
CAUTION: The hot kettle will cause burns if you touch it with your hand. Allow the kettle to cool for at least 1 hour before attempting to clean.
2. Every night, mix a gallon of Heat'n Kleen solution (Gold Medal Part No. 2095) – (2 tablespoons per gallon of water). Add enough solution to fill the kettle 1/2" deep.
3. Turn on the kettle heat. When the water starts to boil, turn off the kettle heat and allow the solution to work over-night.
4. Before next use, dump the solution into a bucket and wipe the inside of the kettle with a cloth. Make sure all of the solution goes into the bucket, and that you do not spill any into the interior cabinet of the machine.
5. Wipe the inside of the kettle with a clean damp cloth.

Clean the Popcorn Machine

1. Wipe the stainless steel parts with a clean cloth and cleaner designed for stainless steel.
DO NOT use oven cleaners or abrasive materials as they will damage parts of the machine.
2. Ammonia cleaners will damage the plastic doors. Use only non-ammonia cleaners, such as Gold Medal Watchdog Glass Cleaner (Item No. 2588).



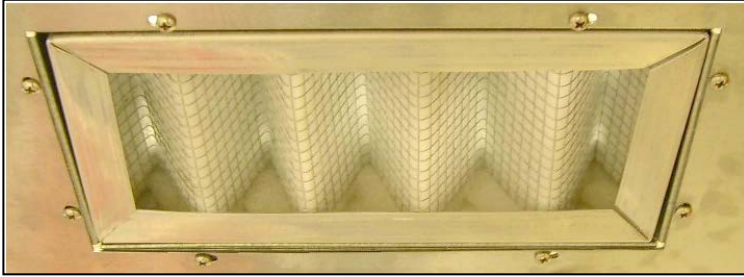
Good sanitation practice demands that all food cooking equipment be cleaned regularly. A clean looking, well-kept machine is one of the best ways of advertising your product.

FILTER CLEANING INSTRUCTIONS

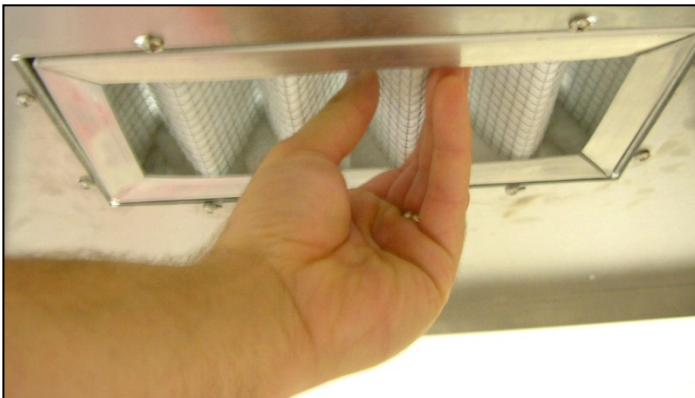
Cleaning the Filters

Your popcorn machine is equipped with an efficient and durable filtration system. The filter (Part No. 69850) should be cleaned every 1-2 weeks to maintain maximum efficiency. Follow the steps below for proper filter cleaning:

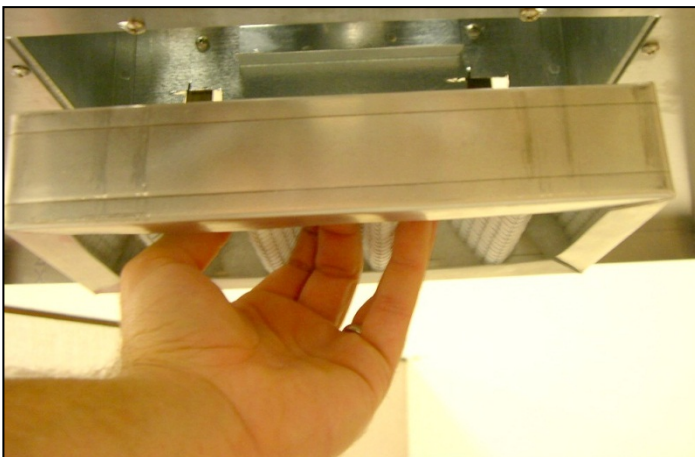
The filter is located on the inside of the popcorn machine directly above the popping kettle.



Remove the filter by gripping the filter itself and pulling straight down. (As shown below.)



Clean the filter in warm soapy water and allow to dry overnight. Replace the filter by putting it into the slot and pushing upward. (As shown below) Make sure the filter frame is flush with the roof of the machine. (As shown above)





MAINTENANCE INSTRUCTIONS

	⚠ DANGER Do NOT immerse the equipment in water. Unplug your machine before servicing.
	⚠ WARNING Adequate eye protection must be used when servicing this equipment to prevent eye injury.
	⚠ CAUTION THE FOLLOWING SECTIONS OF THIS MANUAL ARE INTENDED ONLY FOR QUALIFIED SERVICE PERSONNEL WHO ARE FAMILIAR WITH ELECTRICAL EQUIPMENT. THESE ARE NOT INTENDED FOR THE OPERATOR.



ORDERING SPARE PARTS

1. Identify the needed part by checking it against the photos, illustrations, and/or parts list.
2. When ordering, please include part number, part name, and quantity needed.
3. Please include your model number, serial number, and date of manufacture (located on the machine nameplate) with your order.
4. Address all parts orders to:

Parts Department
Gold Medal Products Co.
10700 Medallion Drive
Cincinnati, Ohio 45241-4807

Or, place orders by phone or online:

Phone: (800) 543-0862

(513) 769-7676

Fax: (800) 542-1496

(513) 769-8500

E-mail: info@gmpopcorn.com

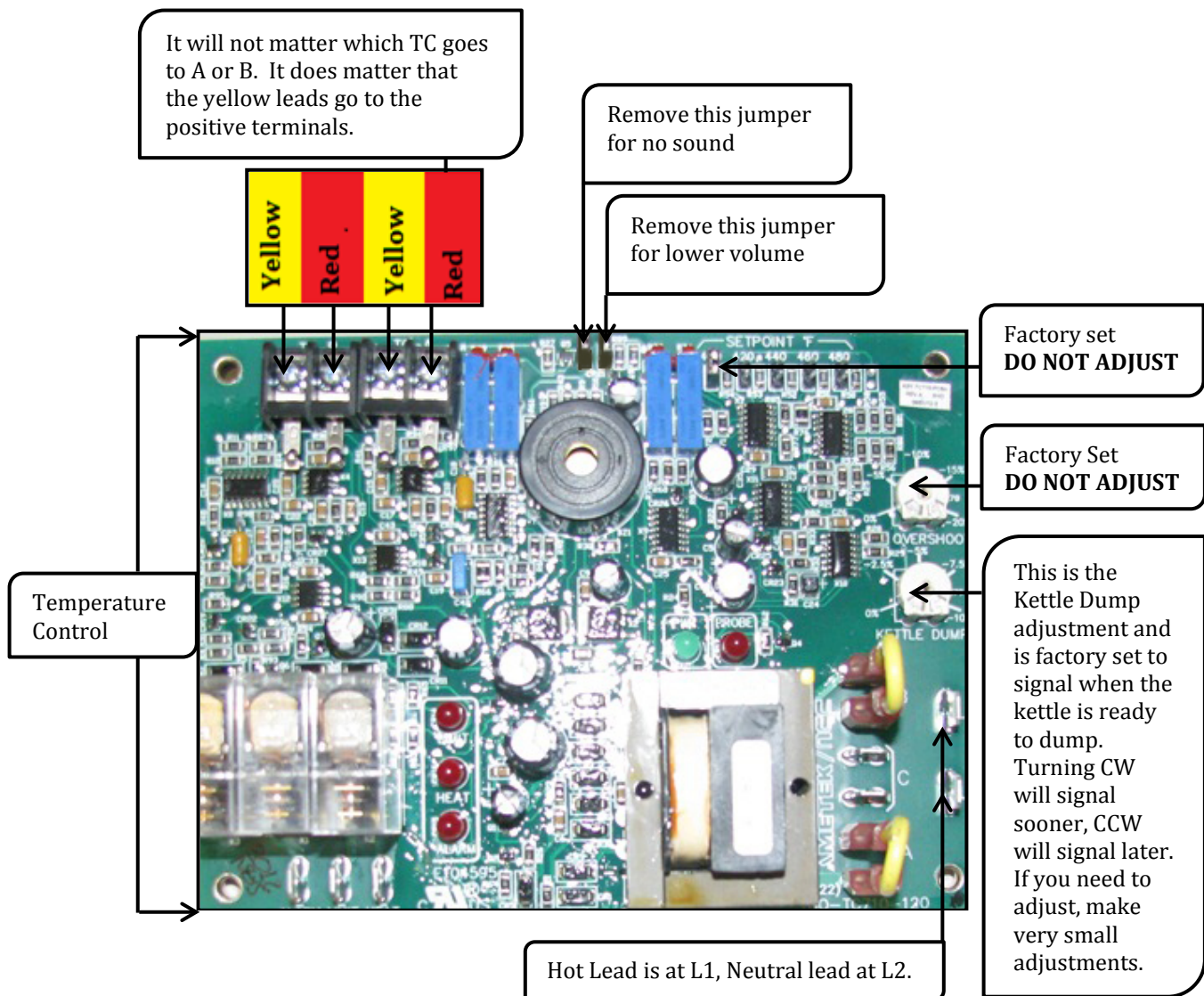
Web Page: www.gmpopcorn.com

TEMPERATURE CONTROL

The Spartan has an electronic kettle control with 2 thermocouples, one for control and one for limit. There are no mechanical thermostats in this kettle.

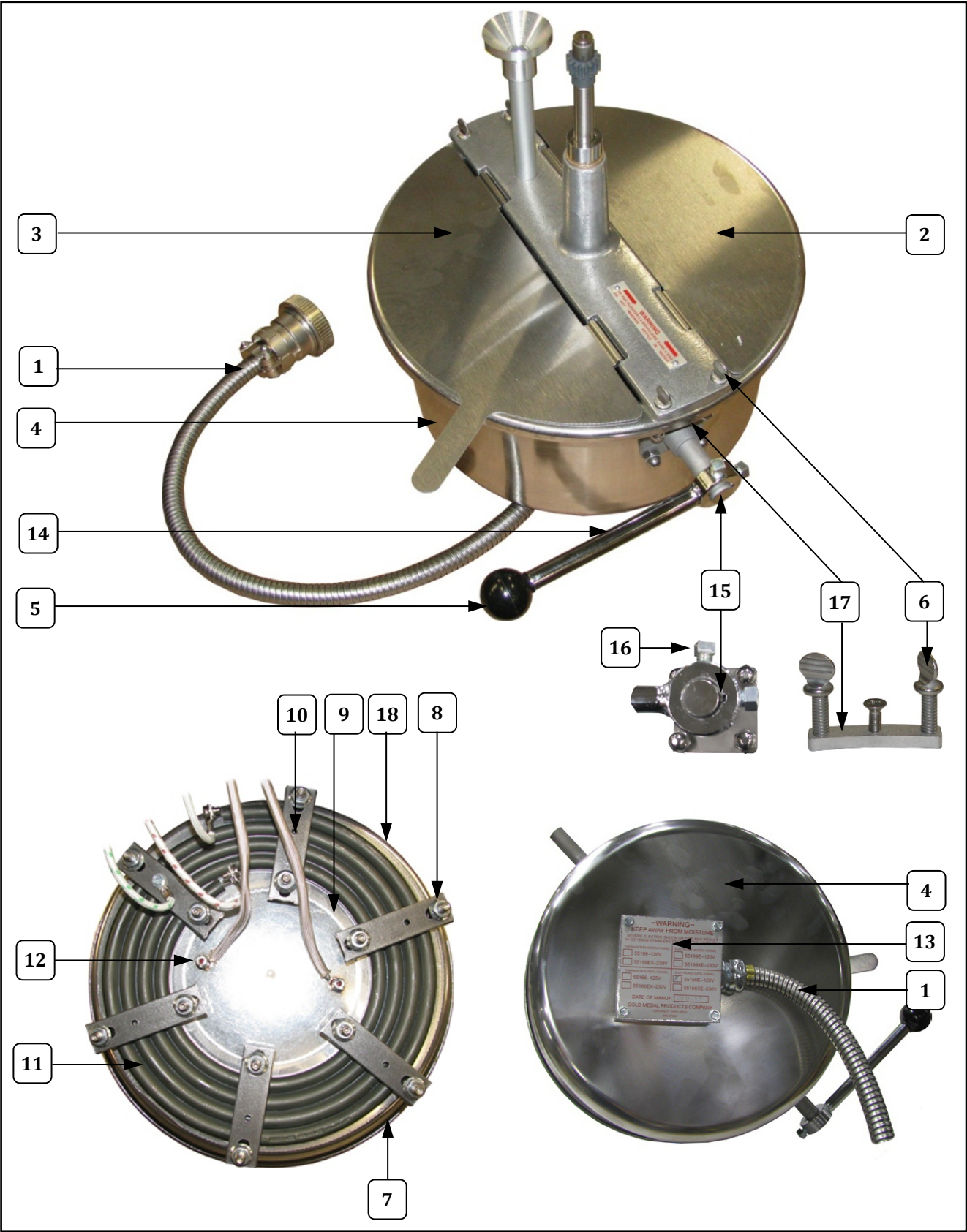
There are (4) factory adjustments on the control:

- Control Temperature – **DO NOT** adjust this one
- Signal To Dump – If you want the signal to dump to be a little sooner or later you can adjust the potentiometer marked Kettle Dump. CW is sooner, CCW is later.
- The patented overshoot circuit is tuned for the kettle, **DO NOT** adjust this potentiometer.
- The audible signal to dump has three options; full volume, half volume and no sound (just the yellow light). Adjustments are by jumper positions. This is set to full volume from the factory.





KETTLE ASSEMBLY

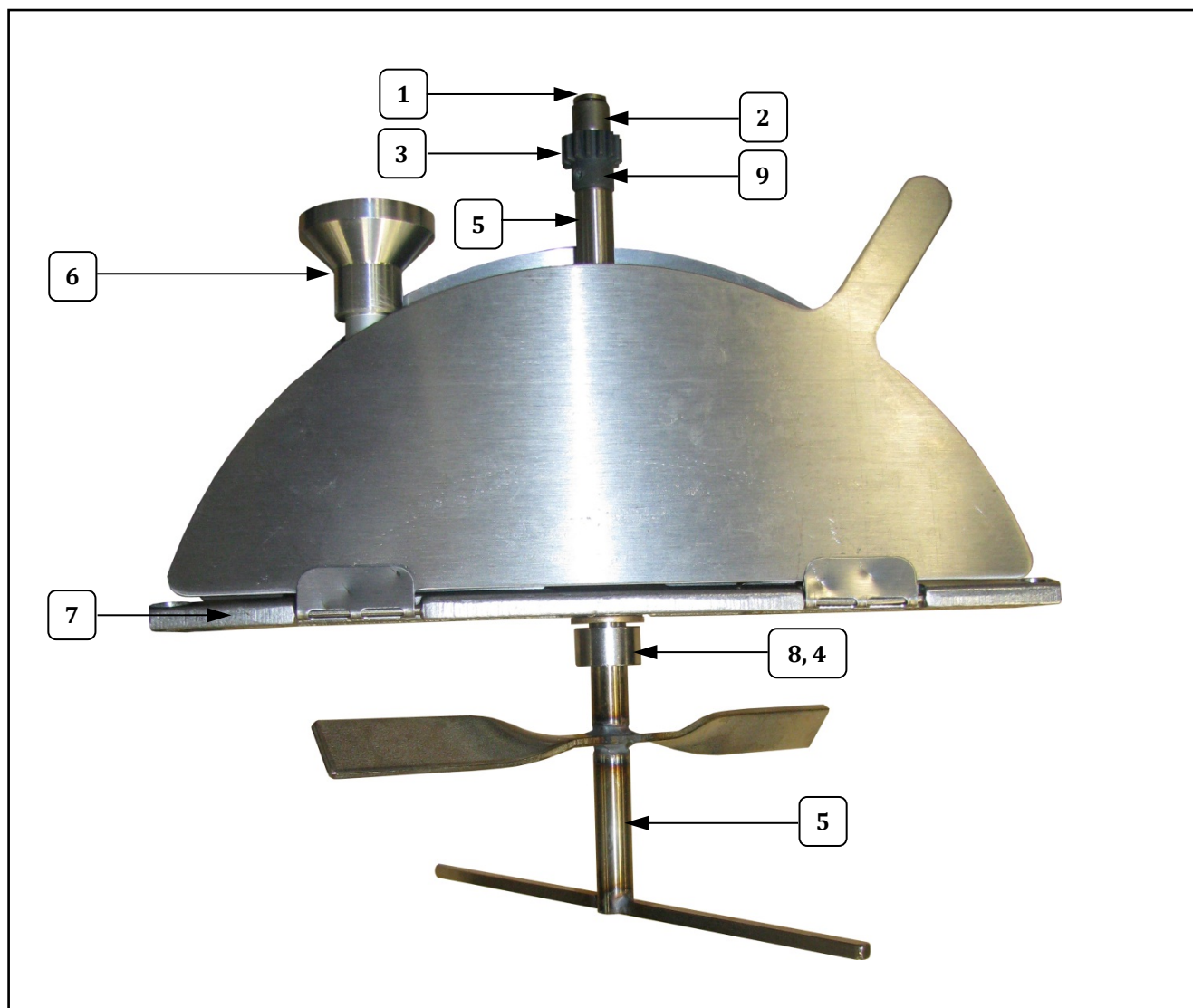




Kettle Assembly

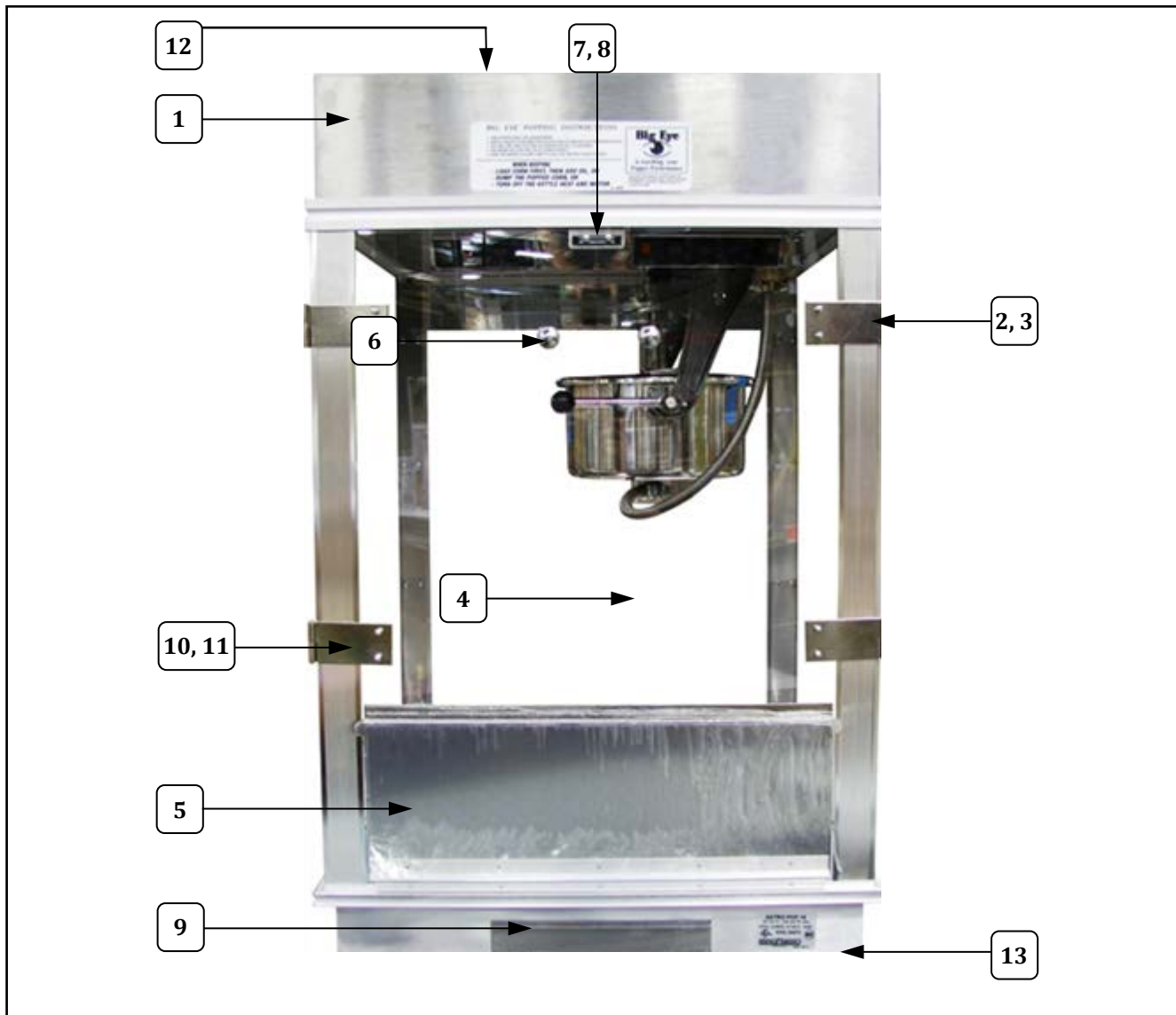
Item	Part No.	Model(s)	Part Description	Qty.
1	55176	ALL	KETTLE LEAD ASSY	1
2	41120	ALL	REAR LID	1
3	41123	ALL	FRONT LID	1
4	41081	ALL	KETTLE SHELL ASSEMBLY	1
5	47110	ALL	KNOB DUMP HANDLE	1
6	47691	ALL	1/4-20 X 1 THUMB SCREW	4
7	41598	ALL	KETTLE GASKET	1
8	46311	ALL	1/4-20 SERRATED LOCK NUT	12
9	67890	ALL	TRANSFER PLATE	1
10	67894	ALL	ELEMENT CLAMP	6
11	67014	55166E	TUBULAR HEAT ELEMENT	1
	67014EX	55166XE	1550W HEAT ELEMENT	
12	67943	ALL	#8-32 TOP LOCK NUT	2
13	47393	ALL	JUNCTION BOX	1
14	47707	ALL	DUMP HANDLE	1
15	41730	ALL	WOODRUFF KEY #3 1/8X1/2	1
16	47662	ALL	5/16-18 X 3/8 SQ HD SCREW	2
17	61167	ALL	THREADED BLOCK	2
18	67892	ALL	KETTLE WELD	1

Kettle Assembly



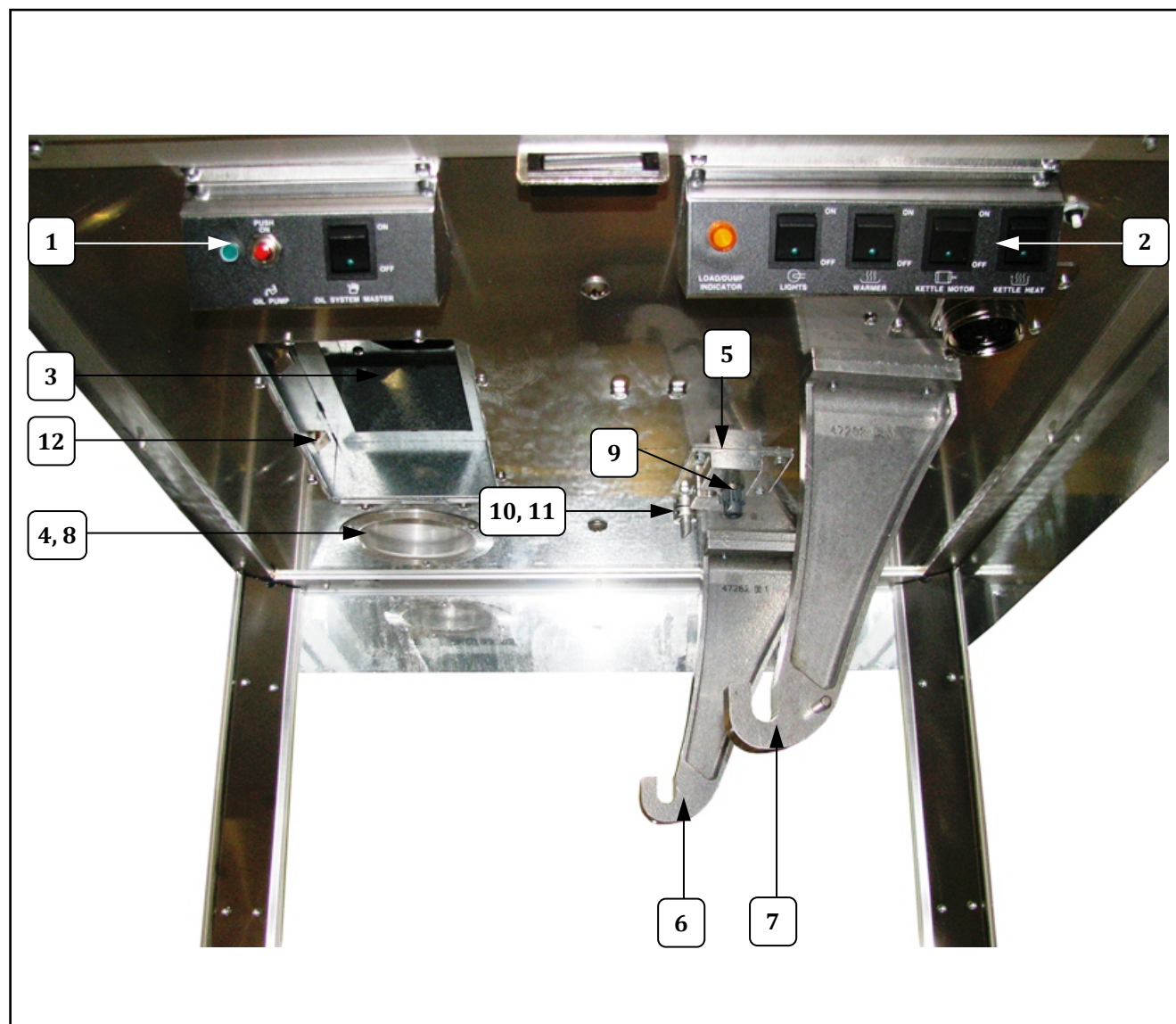
Item	Part No.	Model(s)	Part Description	Qty.
1	43434	ALL	AGITATOR BEARING HUB	1
2	47106	ALL	NEEDLE BEARING	1
3	47060	ALL	SPUR GEAR	1
4	47751	ALL	SET SCREW 1/4-20 X 3/16	2
5	41093	ALL	AGITATOR SHAFT ASSEMBLY	1
6	41239	ALL	OIL TUBE WITH FUNNEL	1
7	41086	ALL	CROSSBAR ASSEMBLY	1
8	47326	ALL	SET COLLAR 1/2ID X 7/8OD	2
9	41742	ALL	SET SCREW #10-32 X 3/16	1

CABINET ASSEMBLY



Item	Part No.	Model(s)	Part Description	Qty.
1	41345	ALL	DOMES ASSEMBLY	1
2	41350	ALL	MALE HINGE SHORT RIGHT	2
3	41351	ALL	FEMALE HINGE LONG LEFT	2
4	41014	ALL	ASTRO DOOR	2
5	41017	ALL	DROP PANEL ASSEMBLY	1
6	41013	ALL	DOOR KNOB	2
7	47561	ALL	MAGNETIC CATCH	1
8	41340	ALL	MAGNETIC CATCH BRACKET	1
9	41838	ALL	OLD MAID PAN	1
10	41349	ALL	MALE HINGE SHORT LEFT	2
11	41352	ALL	FEMALE HINGE LONG LEFT	2
12	67848	ALL	INSPECTION COVER	1
13	41282	ALL	CASE BOTTOM RUBBER FEET	4

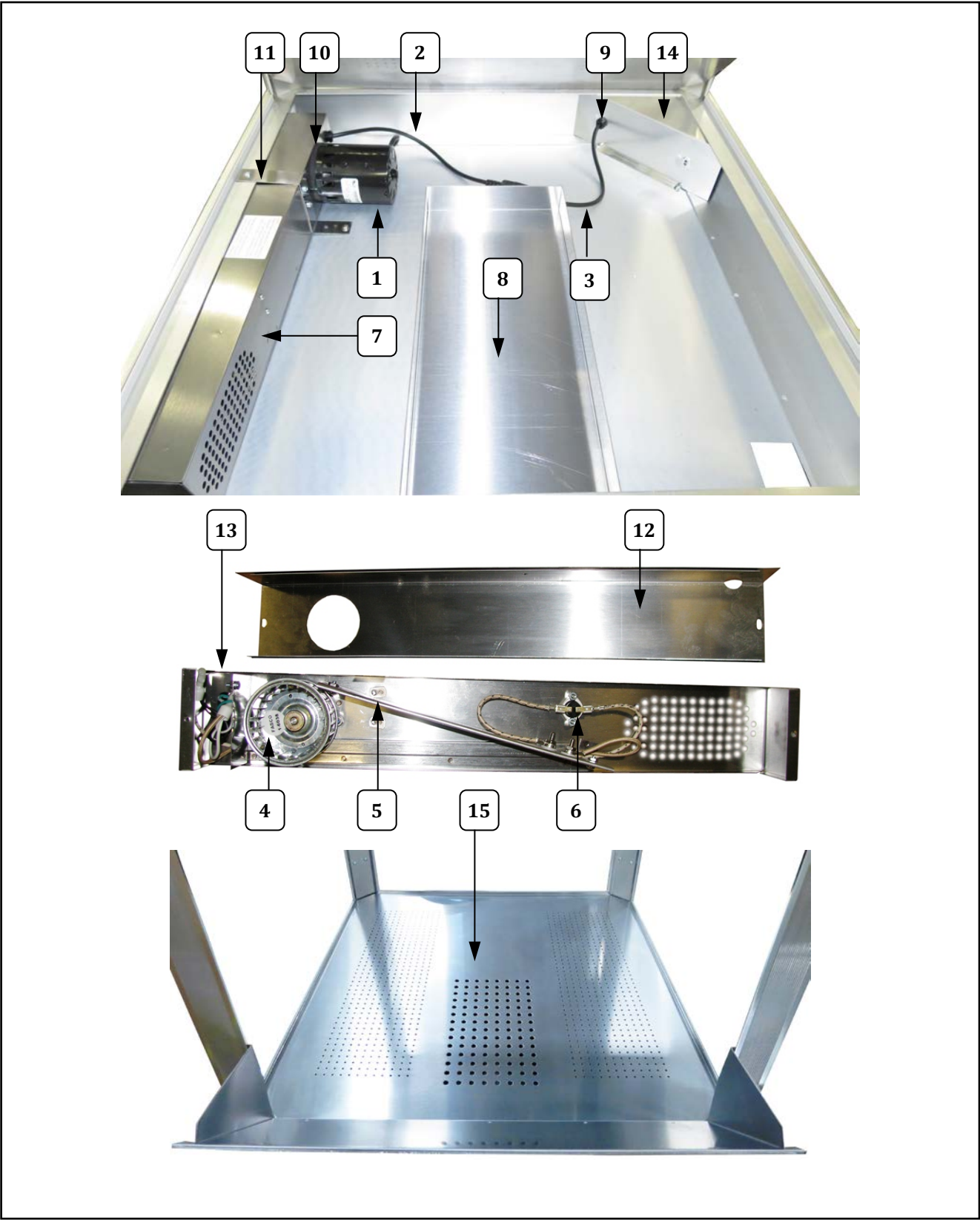
Cabinet Assembly



Item	Part No.	Model(s)	Part Description	Qty.
1	17451	ALL	ROCKER PUSH BUTTON BOX	1
2	17450	ALL	5 HOLE SWITCH BOX	1
3	69850	ALL	BOX FILTER (not shown)	1
4	47176	2023E-EN	65W COATED REFLECTOR FLOOD	1
	41979EX	2023XE-XEN	75W HALOGEN FLOOD	
5	67194	ALL	GEAR BLOCK ASSEMBLY	1
6	47262	ALL	HANGER ARM FRONT	1
7	47228	ALL	HANGER ARM REAR	1
8	47047	ALL	LAMP HOLDER	1
9	47060	ALL	SPUR GEAR	1
10	47225	ALL	SET COLLAR	2
11	47226	ALL	SET SCREW	2
12	62666	ALL	FILTER SPRING CLIPS	2



Cabinet Assembly



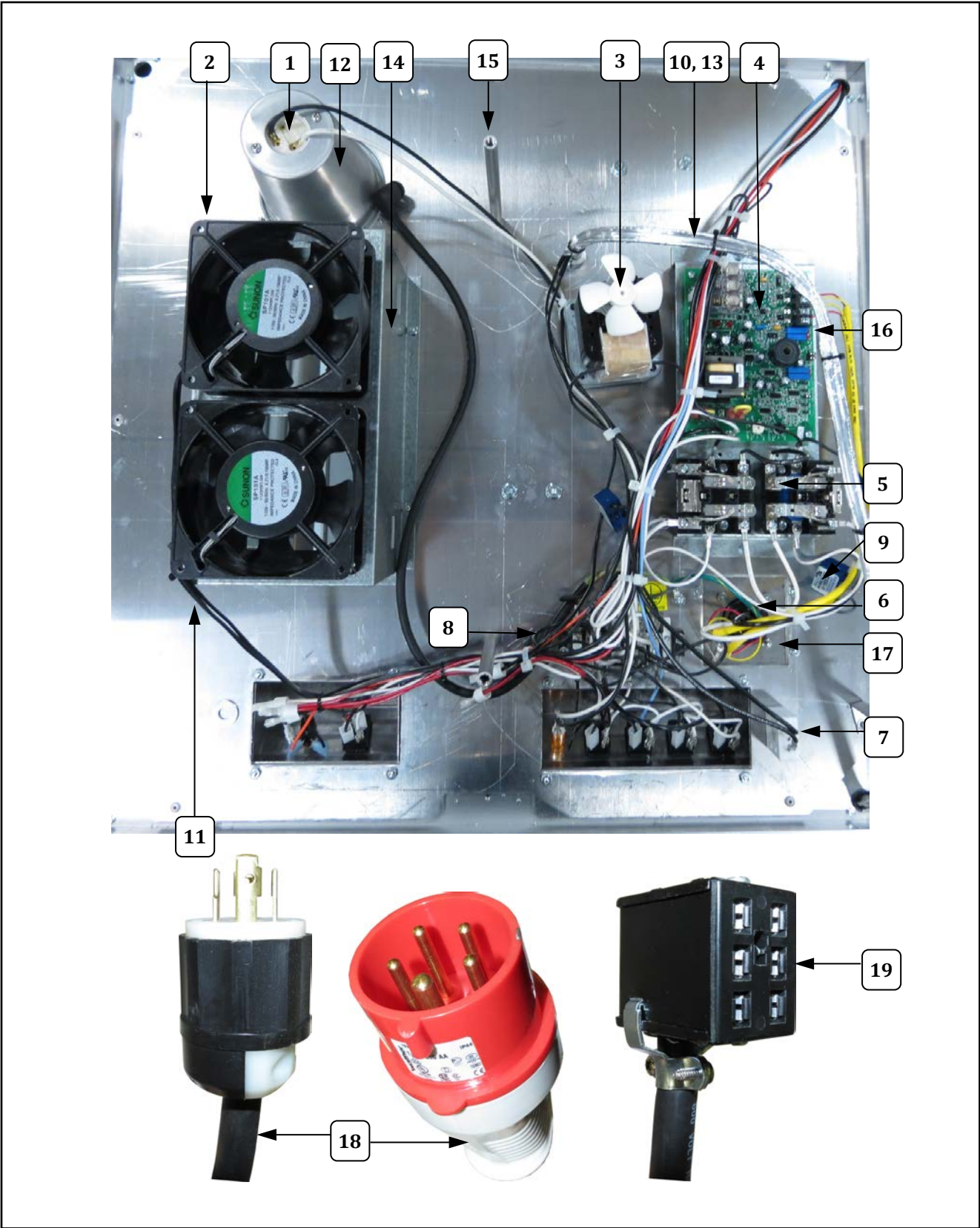


Cabinet Assembly

Item	Part No.	Model(s)	Part Description	Qty.
1	47356	2023E-EN	115V MOTOR WARMER	1
	47669	2023XE-XEN	230V MOTOR WARMER	
2	61021	ALL	FEMALE CORD	1
3	61020	ALL	MALE CORD	1
4	41113	ALL	BLOWER WHEEL	1
5	47355	2023E-EN	120V, 400W HEAT ELEMENT	1
	47732	2023XE-XEN	240V, 400W HEAT ELEMENT	
6	47385	ALL	THERMOSTAT WARMER	1
7	47563	2023E-EN	WARMER BLOWER ASSEMBLY	1
	47563EX	2023XE-XEN	WARMER BLOWER ASSEMBLY	
8	41838	ALL	OLD MAID PAN	1
9	44073	2023E-EN	STRAIN RELIEF	2
	82220	2023XE-XEN	STRAIN RELIEF	2
10	47358	ALL	RUBBER PAD	1
11	47985	ALL	TOP MOUNTING ANGLE	1
12	47542	ALL	TUNNEL COVER WELD ASSEMBLY	1
13	47545	ALL	WARMER CHASSIS ASSEMBLY	1
14	41879	ALL	CORNER COVER	1
15	41102	ALL	BOTTOM CORN PAN	1



Cabinet Assembly





Cabinet Assembly

Item	Part No.	Model(s)	Part Description	Qty.
1	47047	ALL	LAMP HOLDER	1
2	48018	2023E-EN	120V 60CY EXHAUST BLOWER	2
	48037	2023XE-XEN	220V 50CY EXHAUST BLOWER	
3	47038	2023E-EN	120V KETTLE DRIVE MOTOR	1
	47067	2023XE-XEN	230V KETTLE DRIVE MOTOR	
4	41001	ALL	TEMPERATURE CONTROL	1
5	55219	2023E-EN	30A DPST 120V RELAY	2
	55219EX	2023XE-XEN	RELAY, 30A DPST 240V	
6	62306	2023E-EN	KETTLE RECEPTACLE ASSEMBLY	1
	62306EX	2023XE-XEN	RECEPTACLE ASSY	
7	47364	2023E-EN	15A CIRCUIT BREAKER	1
	48659	2023XE-XEN	10A CIRCUIT BREAKER	
8	47208	ALL	TERMINAL BLOCK	1
9	89087	ALL	240VAC TRANSIENT FILTER	2
10	41640	2023E-EN	8W 120V FOIL ELEMENT	1
	41640EX	2023XE-XEN	8W 230V FOIL ELEMENT	
11	47199	ALL	BLOWER PLUG AND CORD	2
12	49480	2023E-EN	LIGHT SHIELD CONICAL	1
	49584	2023XE-XEN	RECESSED LIGHT COVER	
13	41047	ALL	OIL LINE TUBING	5.42'
14	67841	ALL	EXHAUST BLOWER BOX	1
15	41526	ALL	DOME SPACER	2
16	67842	ALL	TEMPERATURE CONTROL MOUNT PLATE	1
17	77475	ALL	MOUNT PLATE	1
18	47601	2023E-EN	POWER SUPPLY CORD	1
	42369	2023XE-XEN	EXPORT POWER SUPPLY CORD	
19	41499	ALL	WIRE HARNESS OIL PUMP	1
20	47026	2023E-EN	STRAIN RELIEF (Not Shown)	1
	41735	2023XE-XEN	STRAIN RELIEF (Not Shown)	
21	47290	2023E-EN	POWER SUPPLY RECPT (Not Shown)	1
22	47377	2023E-EN	POWER SUPPLY RECPT COVER (Not Shown)	1



LIGHTING ASSEMBLY





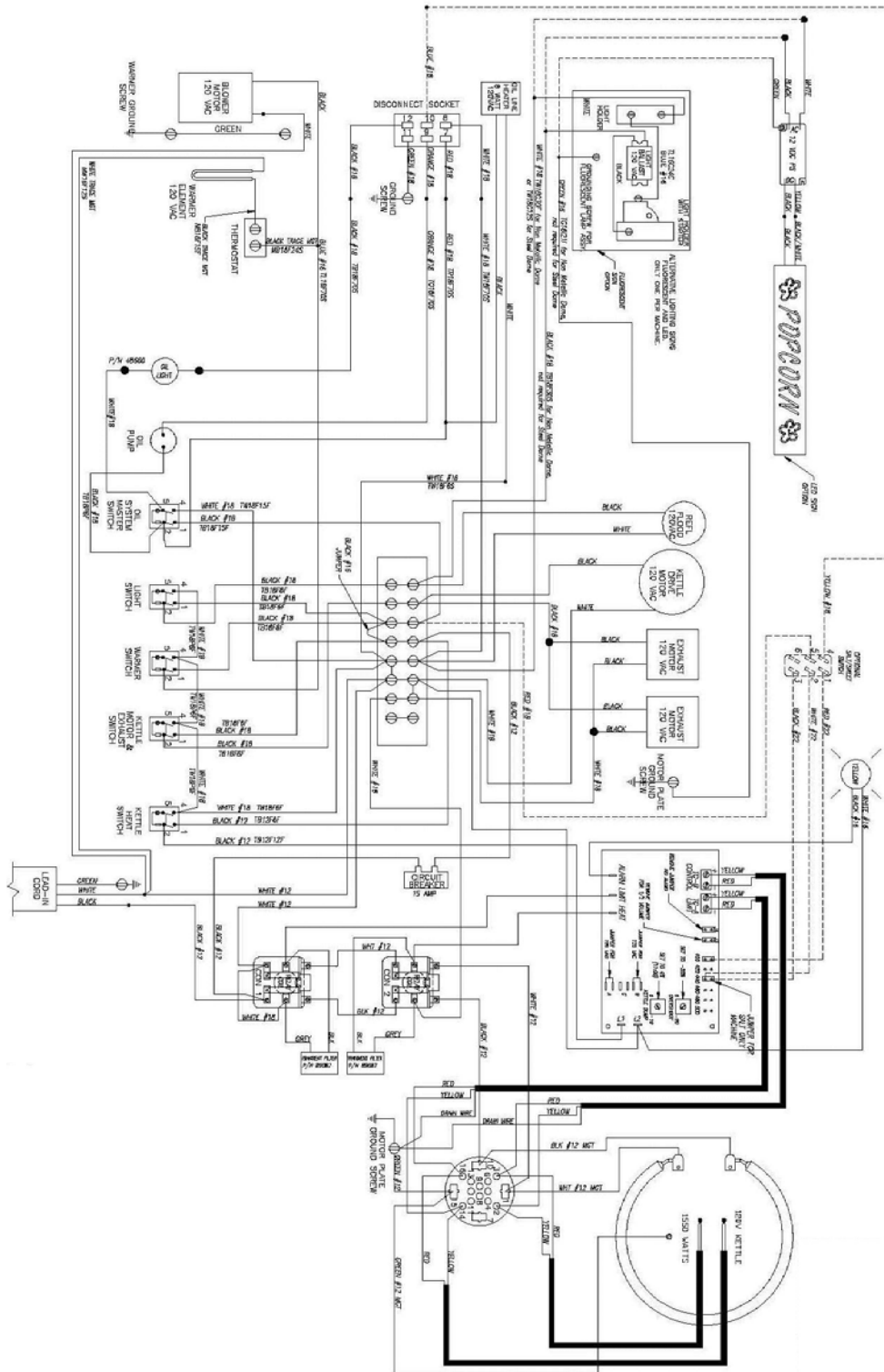
Lighting Assembly

Item	Part No.	Model(s)	Part Description	Qty.
1	41301	LED	LED POPCORN SIGN	1
2	55379	LED	1W LED STRIP	2
3	55394	LED	24VDC 20W POWER SUPPLY	1
4	67420	NEON	END CAP (Not Shown)	2
5	67417	NEON	NEON SIGN COVER	1
6	55231	NEON	12V POWER SUPPLY	1
7	67517	NEON	NEON SIGN BOTTOM BRACKET	2
8	45003	NEON	NEON SIGN ASSEMBLY	1
9	67438	NEON	EXTRUSION	2
10	69708	NEON	LED POPCORN SIGN	1
11	47562	ALL	WIRE HARNESS	1



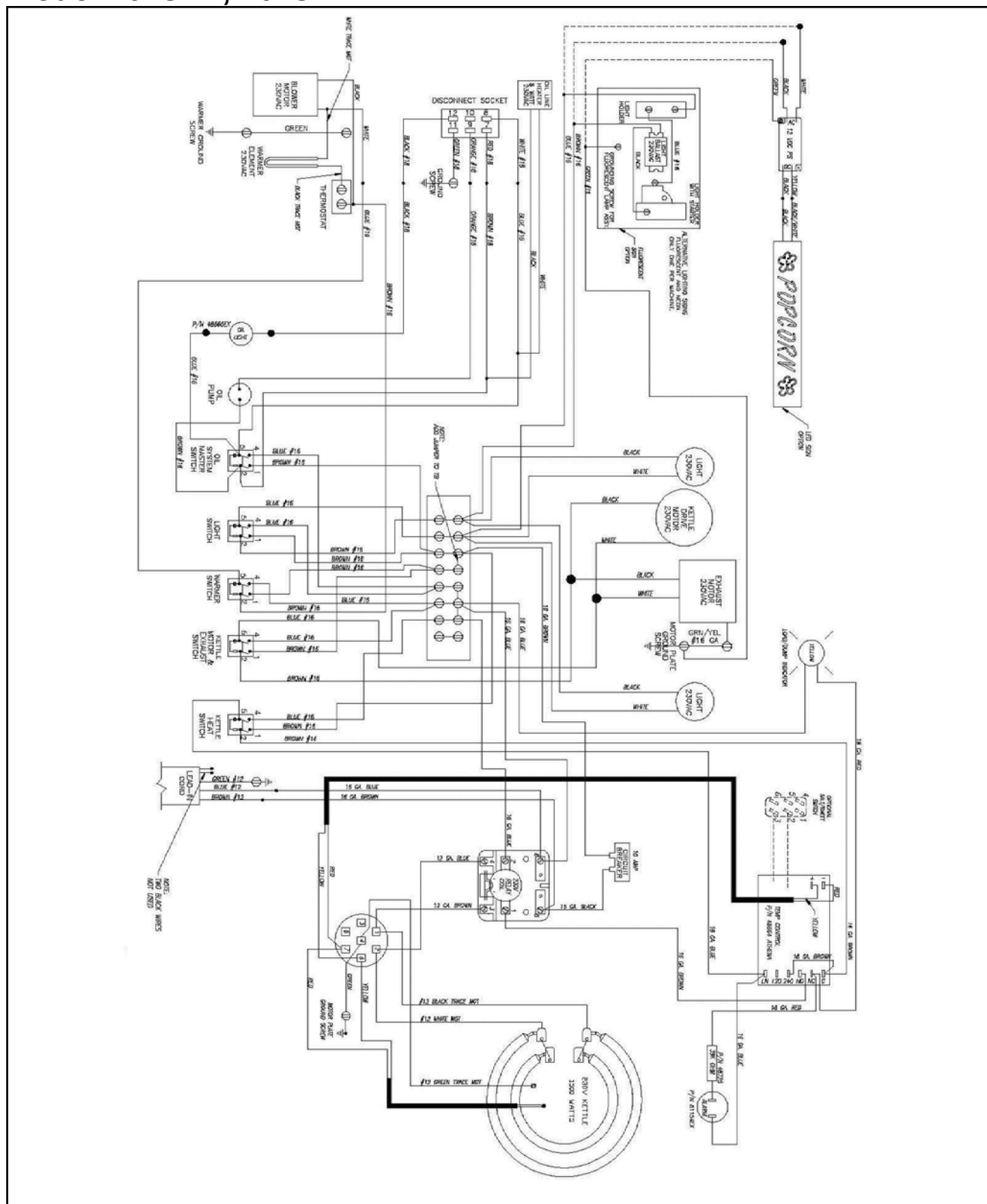
WIRING DIAGRAM

Model 2023E, 2023EN



WIRING DIAGRAM

Model 2023XE, 2023XEN





WARRANTY

WE WARRANT to the original purchaser the Gold Medal equipment sold by us to be free from defects in material or workmanship under normal use and service. Our obligation under this warranty shall be limited to the repair or replacement of any defective part for a period of six (6) months from the date of sale to the Original Purchaser with regard to labor and two (2) years with regard to parts and does not cover damage to the equipment caused by accident, alteration, improper use, voltage, abuse, or failure to follow instructions.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED, AND OF ALL OTHER OBLIGATIONS OR LIABILITIES ON OUR PART, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. We neither assume, nor authorize any other person to assume for us, any other obligation or liability in connection with the sale of said GOLD MEDAL equipment or any part thereof.

The term "Original Purchaser" as used in this warranty shall be deemed to mean that person, firm, association, or corporation who was billed by the GOLD MEDAL PRODUCTS COMPANY, or their authorized distributor for the equipment.

THIS WARRANTY HAS NO EFFECT AND IS VOID UNLESS THE ORIGINAL PURCHASER FIRST CALLS GOLD MEDAL PRODUCTS COMPANY AT 1-800-543-0862 TO DISCUSS WITH OUR SERVICE REPRESENTATIVE THE EQUIPMENT PROBLEM, AND, IF NECESSARY, FOR INSTRUCTIONS CONCERNING THE REPAIR OR REPLACEMENT OF PARTS.

NOTE: This equipment is manufactured and sold for commercial use only.



GOLD MEDAL[®] PRODUCTS CO.

10700 Medallion Drive, Cincinnati, Ohio 45241-4807 USA

www.gmpopcorn.com

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(513) 769-7676

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