

Astro Pop

Instruction Manual

Model No. 2023ETS, 2023ETSB



 **GOLD MEDAL®**
FUNFOOD EQUIPMENT AND SUPPLIES

Cincinnati, OH 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 the kettle, warmer, or any other part of this equipment in water. Always unplug the equipment before cleaning or servicing. Do not use excessive water when cleaning.
	⚠ WARNING To avoid serious burns, do NOT touch the kettle while it is hot.
	⚠ WARNING ALWAYS wear safety glasses when servicing this equipment.
	⚠ 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.
	⚠ CAUTION This equipment is sold for commercial use only. Only personnel that are trained and familiar with the equipment should operate the equipment. Carefully read all installation, and operating instructions before operating the equipment.
	⚠ CAUTION This machine is NOT to be operated by minors. Minors are classified as anyone under the age of 18.

NOTE

The information, specifications and illustrations contained in this manual represent the latest data available at time of publication. Right is reserved to make changes as required at the discretion of Gold Medal Products Company without notice.

INSTALLATION INSTRUCTIONS

CHECKING SHIPMENT

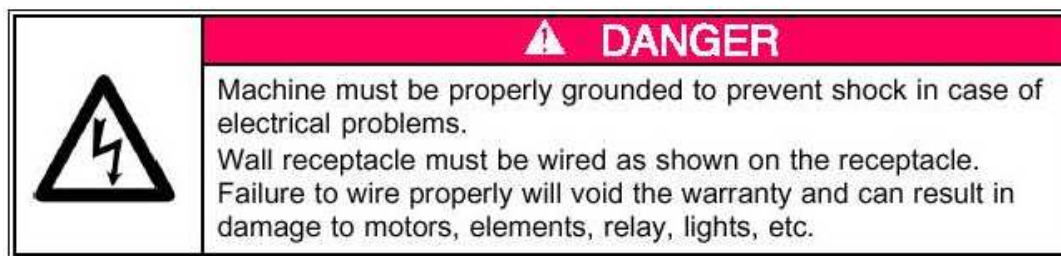
Unpack all cartons and check thoroughly for any damage that may have occurred during transit. Damage claims should be filed immediately with the transportation company.

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

120 VAC 60 Hz. 30 Amp Fused Circuit – NEMA 5-30R Receptacle provided with the machine.



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, either the *Bucket Pump* or *Bag-in-Box* models. 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 DESPENSE 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 also activates the exhaust fan.

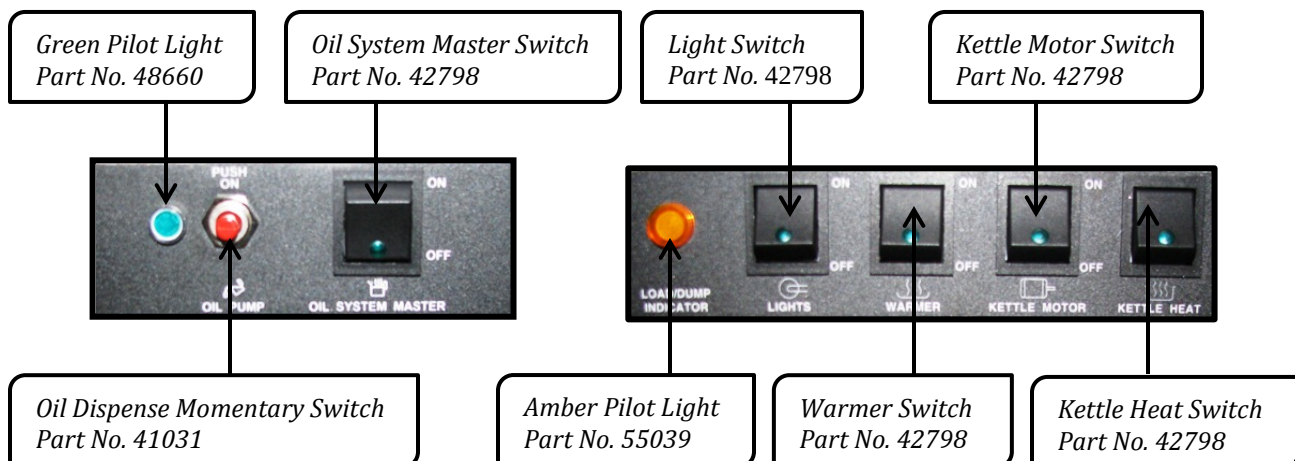
KETTLE HEAT SWITCH

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





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.)

SETTING YOUR BAG IN A BOX OIL SYSTEM

For all questions, concerns and instructions regarding your Bag in a Box Oil System (Model No. 2257, 2257D) please refer to the manual for the respective model (Part No. 79431)

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.

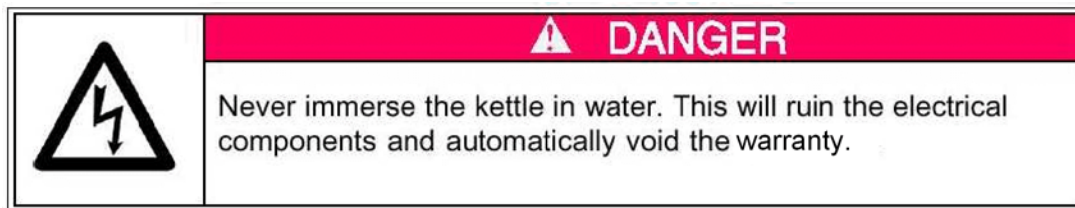
When you are finished popping, make sure *Kettle Heat* and *Kettle Motor Switches* are turned off.

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).

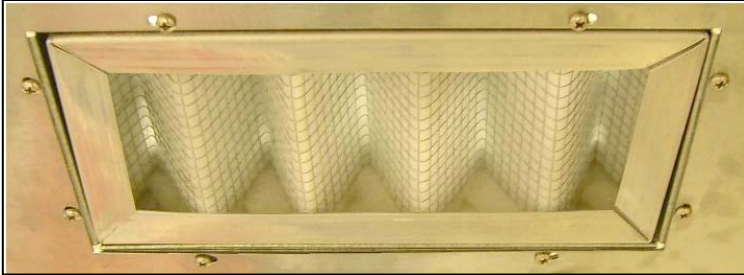
FILTER CLEANING INSTRUCTIONS

CLEANING THE FILTERS

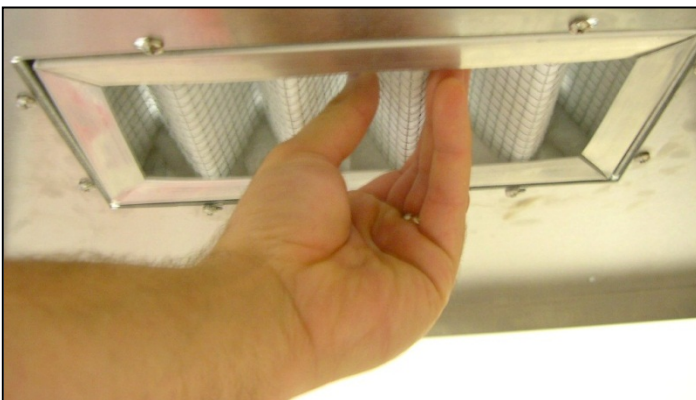
Your popcorn machine is equipped with an efficient and durable filtration system.

The filter (Part No. 69850) should be cleaned every 1-2 weeks to maintain maximum efficiency. Follow the steps below for proper filter cleaning:

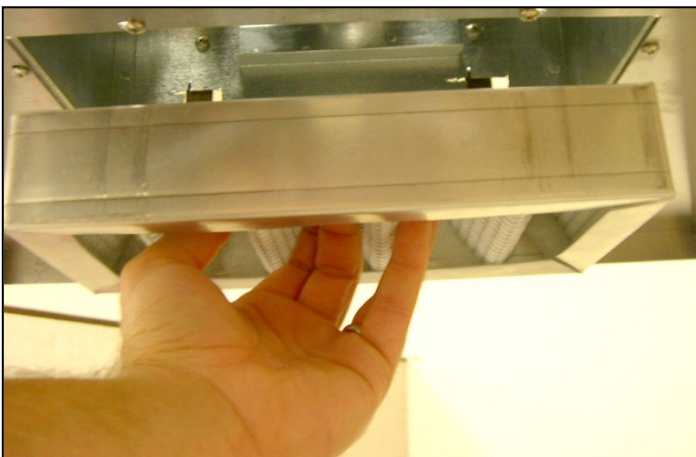
The filter is located on the inside of the popcorn machine directly above the popping kettle.



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 Improper installation, adjustment, alteration, service or maintenance can cause property damage, injury, or death. Read the Installation, Operating, and Maintenance Instructions thoroughly. Installation should be performed by a certified electrician.
	⚠ WARNING Do not immerse the kettle, warmer, or any other part of this equipment in water. Always unplug your machine before servicing.
	⚠ WARNING Adequate eye protection must be used when servicing this equipment to prevent the possibility of 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 worn or broken part by checking it with the illustrations and parts list.
2. When ordering parts, include part number, part name, and quantity required.
3. Include your model name and machine serial number (found on nameplate) with your order.
4. Address orders to:

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

Or place orders at:

(800) 543-0862
(513) 769-7676
Fax: (513) 769-8500
E-mail: info@gmpopcorn.com
www.gmpopcorn.com

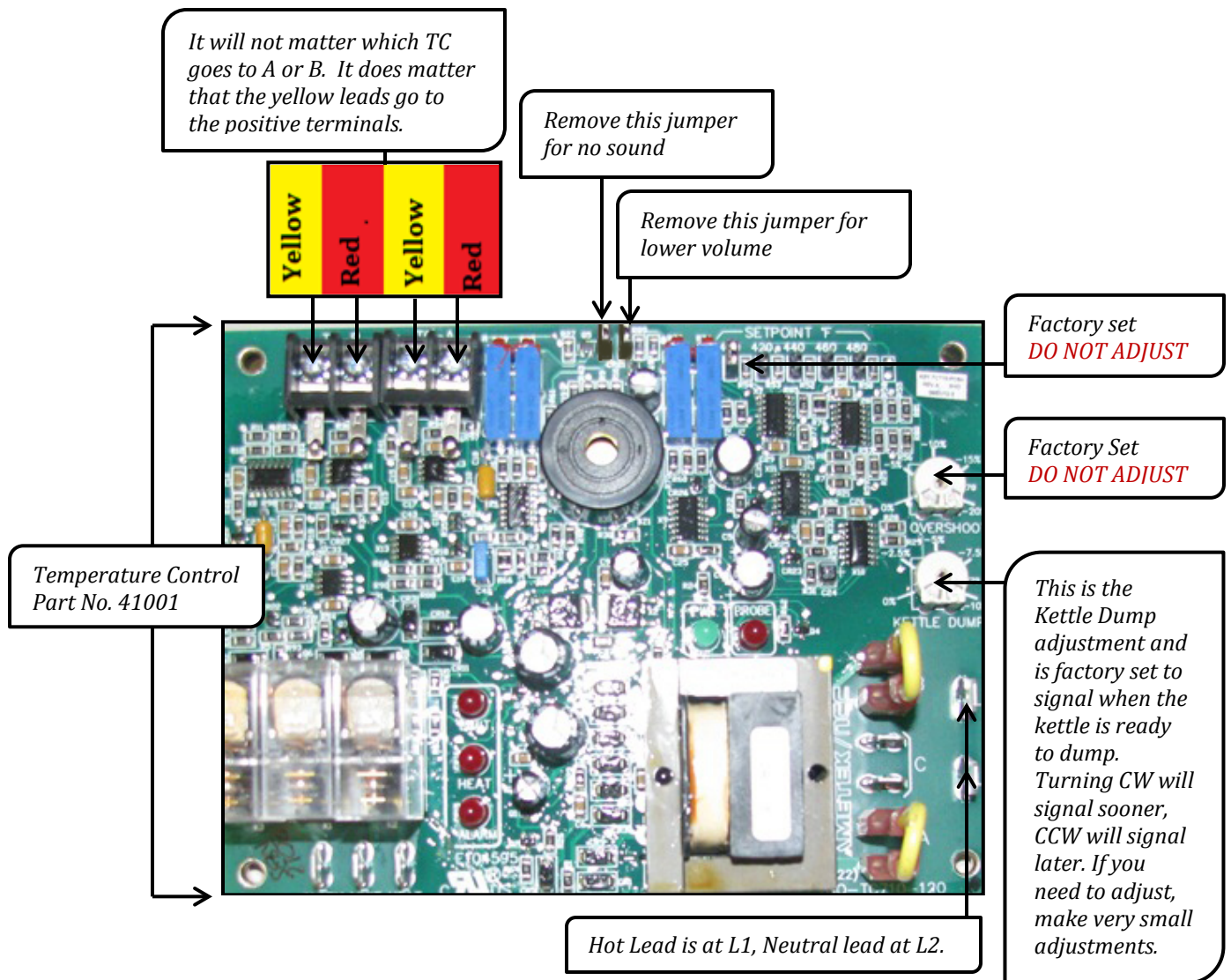


TEMPERATURE CONTROL

The *Astro-Pop* 16Oz has an electronic kettle control with 2 thermocouples, one for control and one for limit. There are no mechanical thermostats in this kettle.

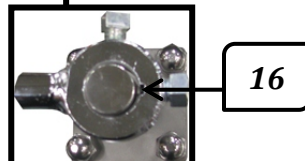
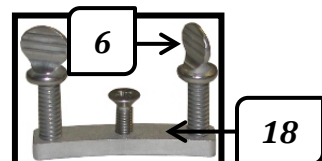
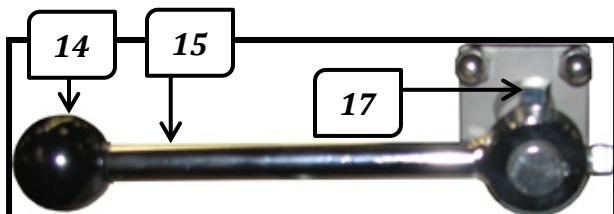
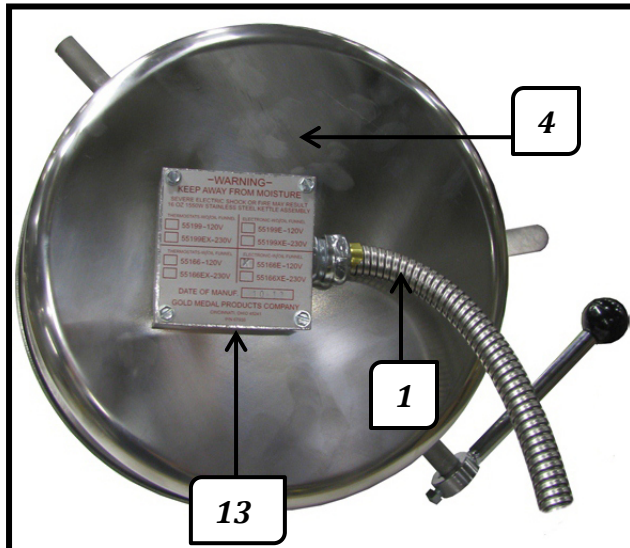
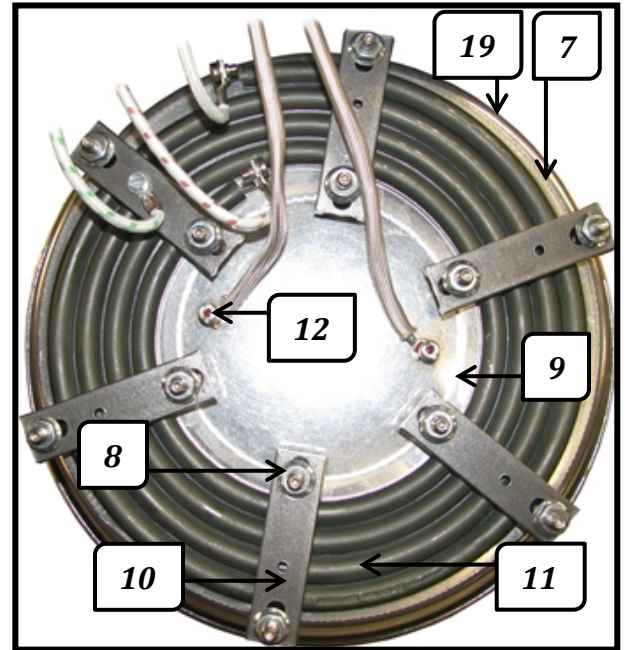
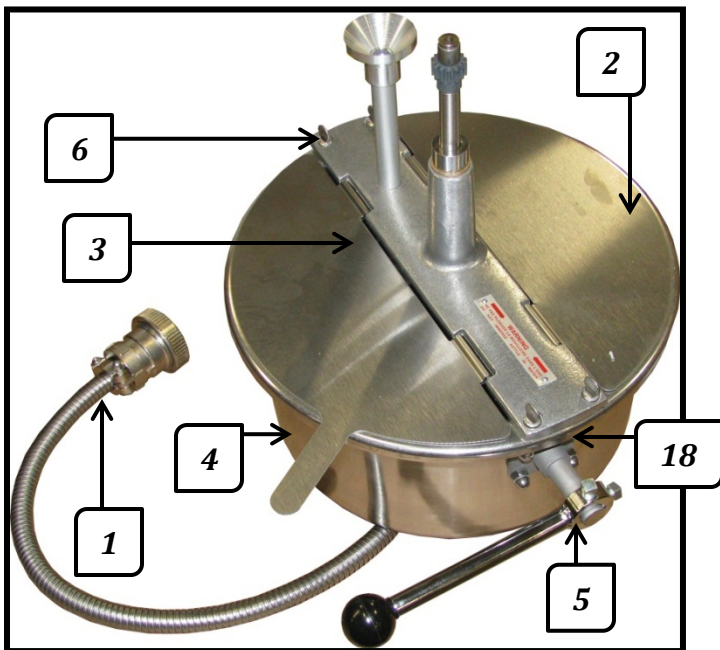
There are (4) factory adjustments on the control:

- 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 (Pg. 11-12)

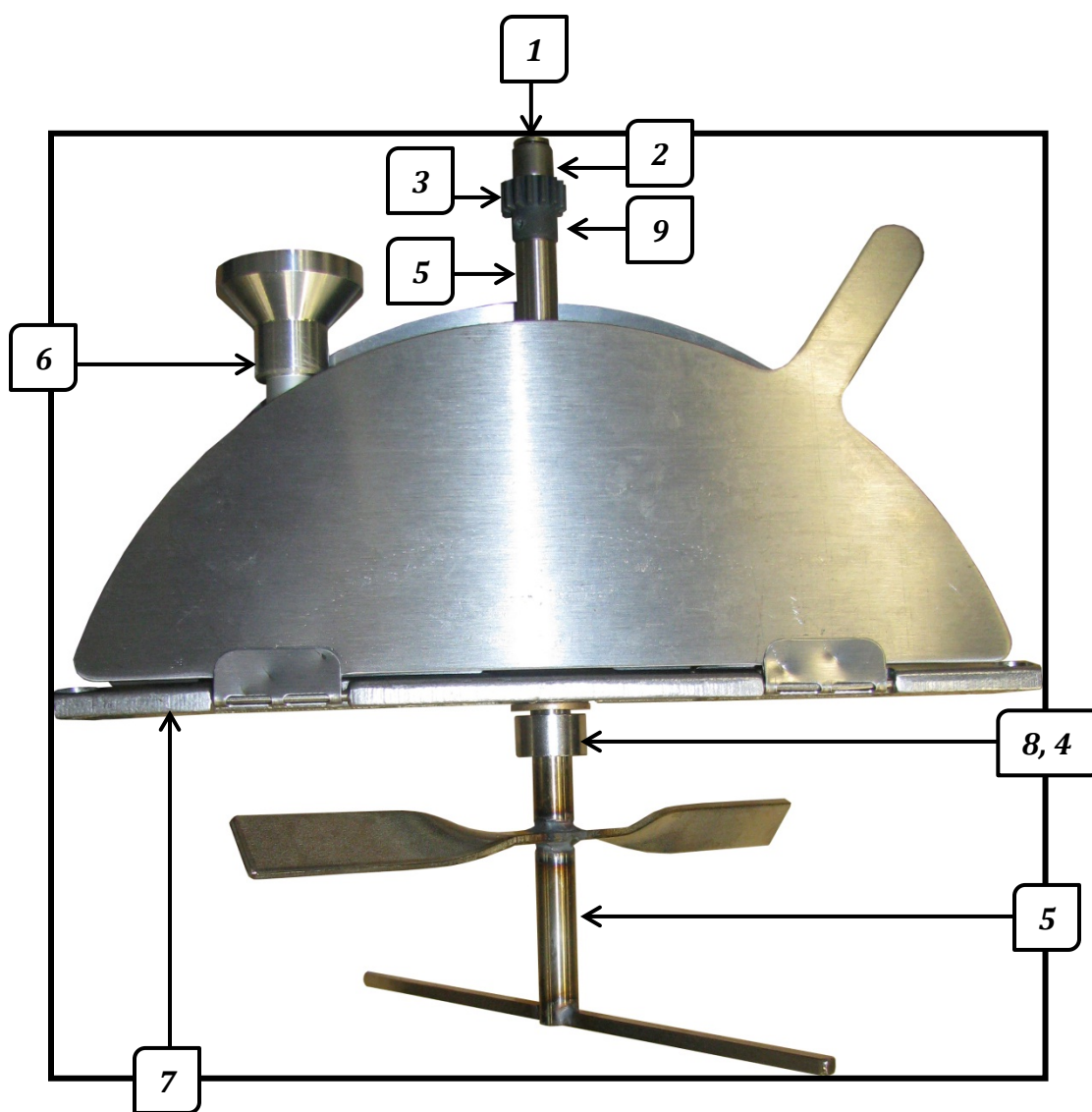
Part No. 55166E



Item	Part No.	Description	Qty.
1	55176	Kettle Lead Assy	1
2	41120	Rear Lid	1
3	41123	Front Lid	1
4	41081	Kettle Shell Assy	1
5	47102	Dump Handle Assy	1
6	47691	Thumb Screw	4
7	41598	16Oz Kettle Gasket	1
8	46311	1/4" - 20 Serrated Lock Nut	12
9	67890	Transfer Plate	1
10	67894	Element Clamp	6
11	67014	Tubular Heat Element	1
12	67943	Top Lock Nut	2
13	47393	Junction Box	1
14	47110	Knob Dump Handle	1
15	47707	Dump Handle	1
16	41730	Woodruff Key	1
17	47662	5/16-18 x 3/8 Screw	2
18	61167	Threaded Block	2
19	67892	Kettle Weld	1

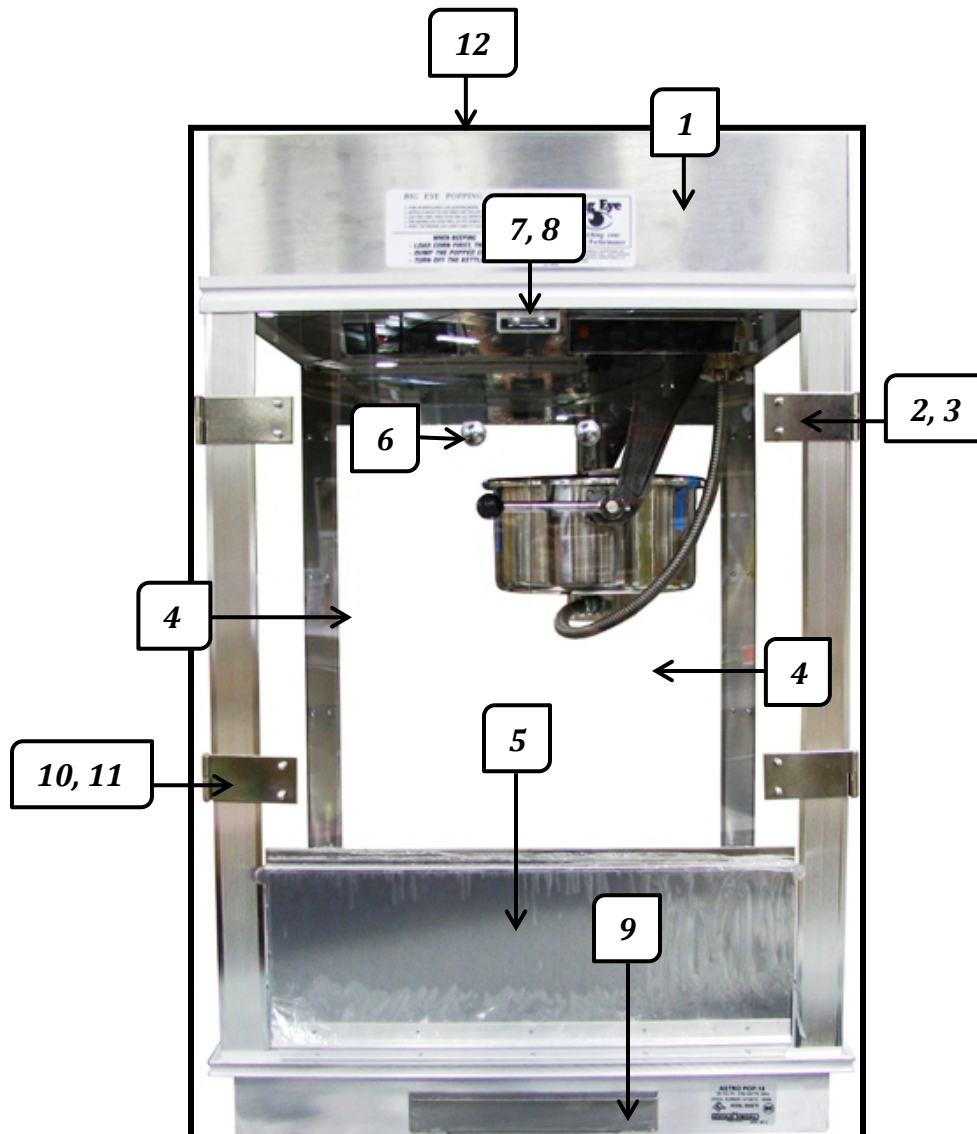
KETTLE ASSEMBLY (Continued)

Part No. 55166E



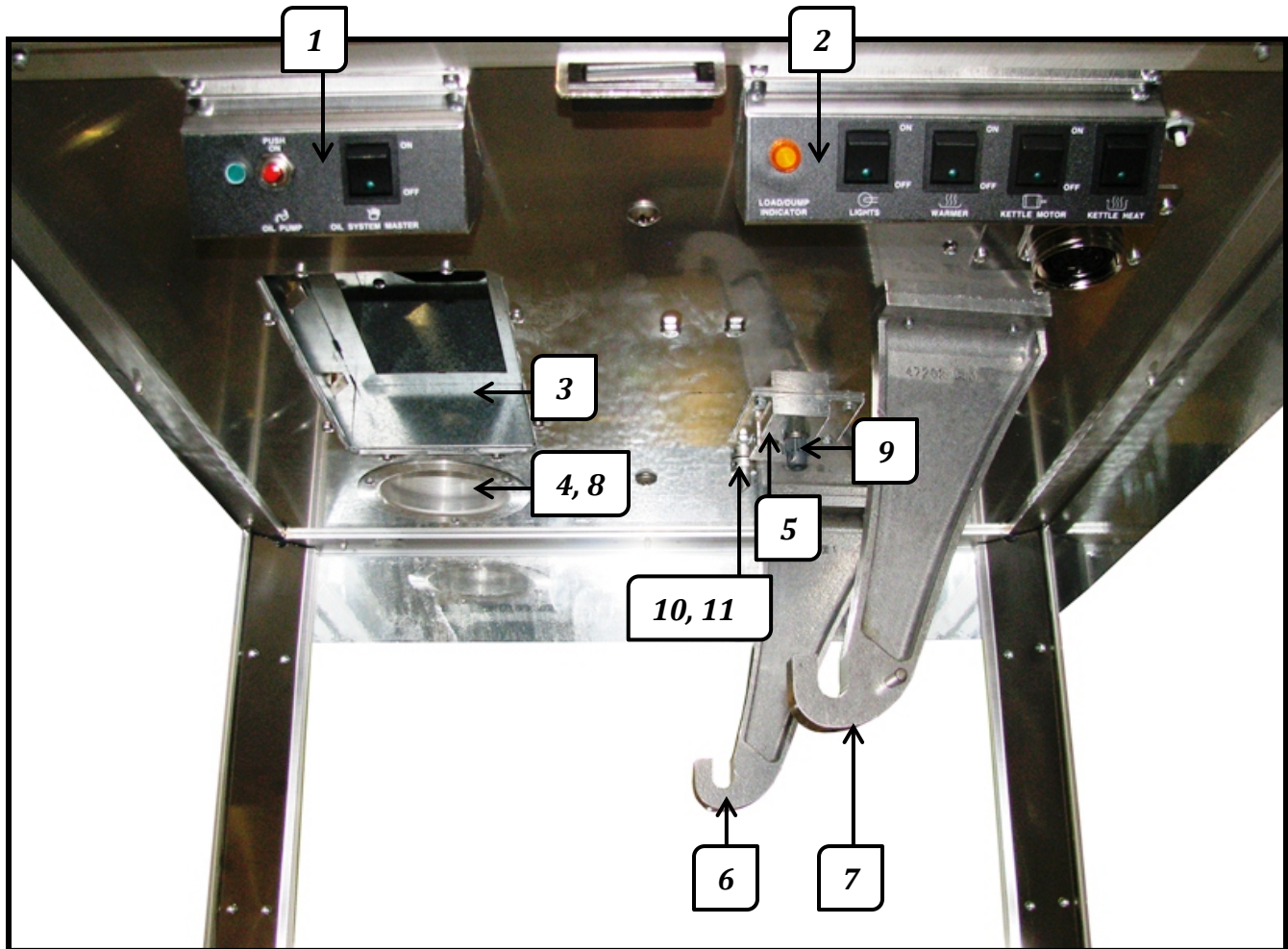
Item	Part No.	Description	Qty.
1	43434	Agitator Bearing Hub	1
2	47106	Needle Bearing	1
3	47060	Spur Gear	1
4	47751	1/4-20 x 3/16 Set Screw	2
5	41093	Agitator Shaft Assy	1
6	41239	Oil Tube With Funnel	1
7	41086	16Oz Crossbar Assy	1
8	47326	1/2ID x 7/8OD Set Colar	2
9	41742	Set Screw #10-32	1

CABINET ASSEMBLY (Pg. 13-15)



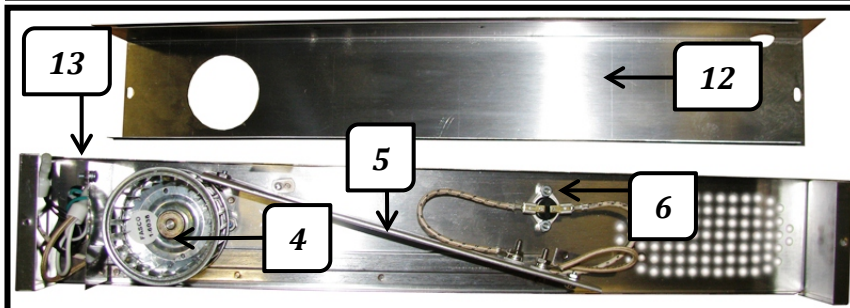
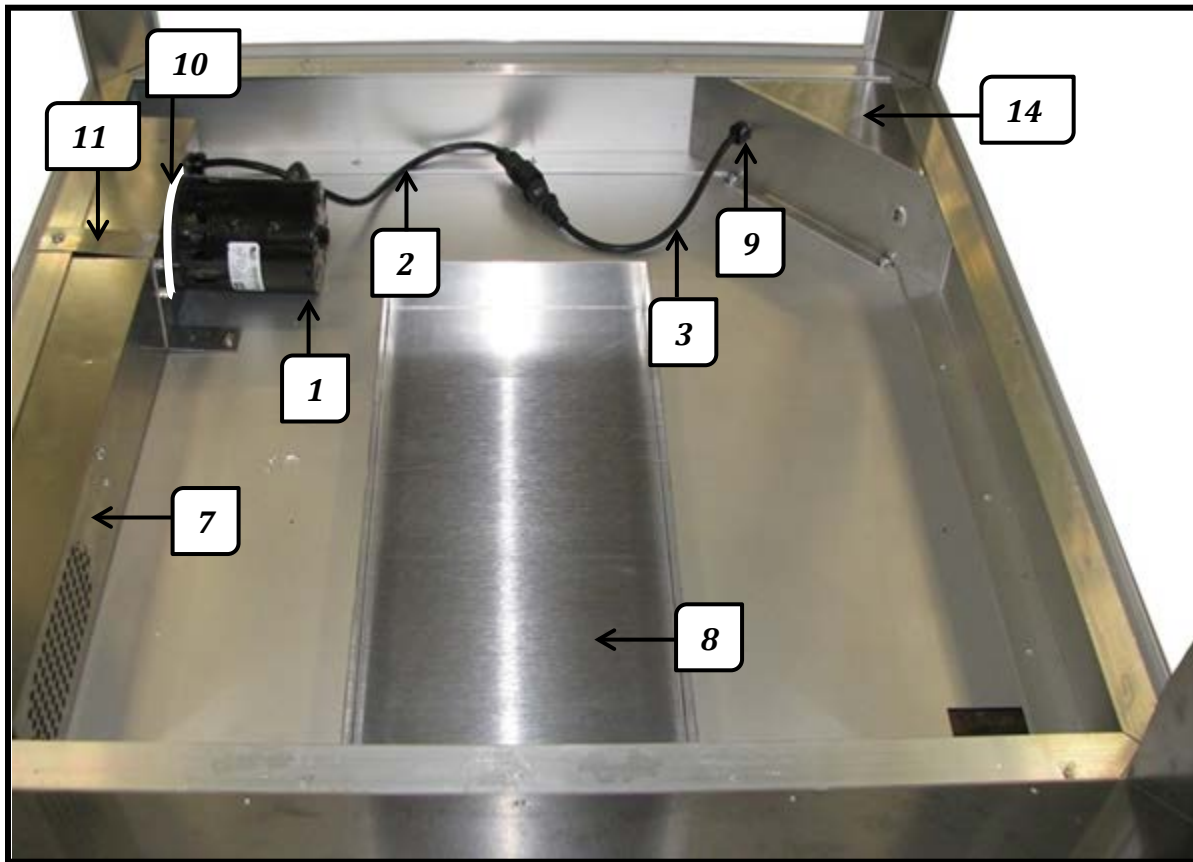
Item	Part No.	Description	Qty.
1	41345NL	Dome	1
2	41350	Male Hinge Short Right	2
3	41351	Female Hinge Long Right	2
4	41014	Astro Door	2
5	41017	Drop Pannel Assy	1
6	41013	Door Knob	2
7	47561	Magnetic Catch	1
8	41340	Magnetic Catch Bracket	1
9	41838	Old Maid Pan	1
10	41349	Male Hinge Short Left	2
11	41352	Female Hinge Long Left	2
12	67848	Inspection Cover	1

CABINET ASSEMBLY (Continued)



Item	Part No.	Description	Qty.
1	17451	Rocker Push Button Box	1
2	17450	5 Hole Switch Box	1
3	69850	Box Filter (Not Shown)	1
4	47176	65W Coated Reflector Flood	2
5	67194	Gear Block Assy	1
6	47262	Hanger Arm Front	1
7	47228	Hanger Arm Rear	1
8	47047	Lamp Holder	1
9	47060	Spur Gear	1
10	47225	Set Collar	2
11	47226	Set Screw	2

CABINET ASSEMBLY (Continued)

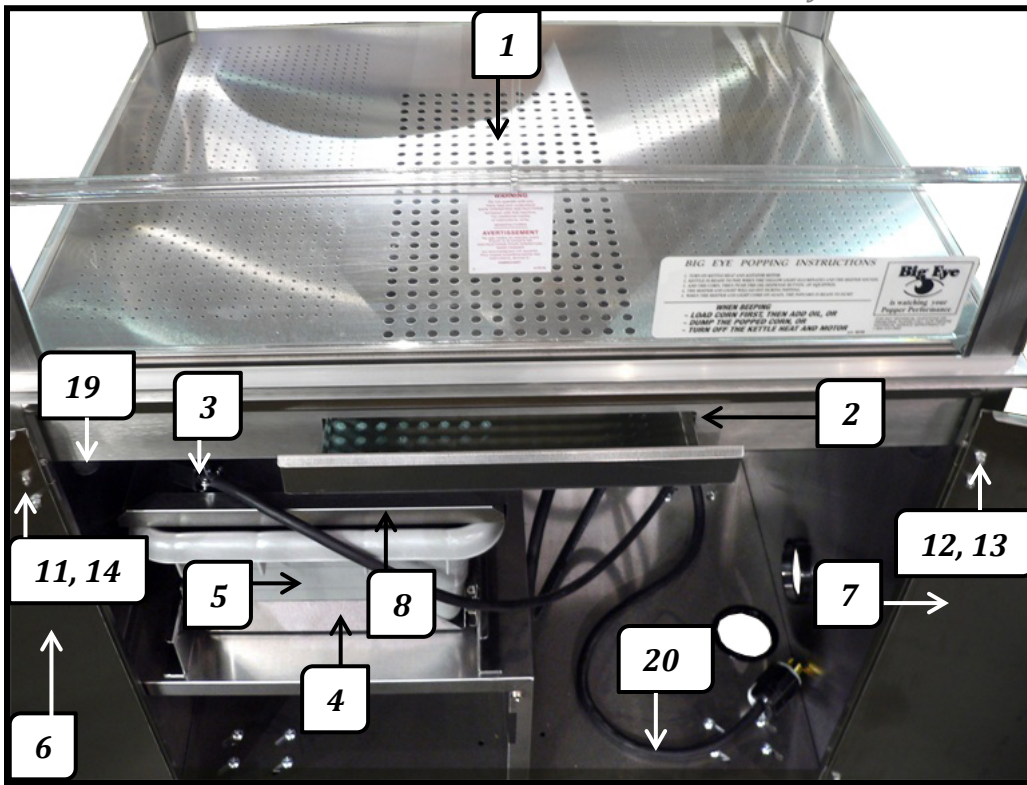


Item	Part No.	Description	Qty.
1	47356	115V Motor Warmer	1
2	61021	Female Cord	1
3	61020	Male Cord	1
4	41113	Blower Wheel	1
5	47355	120V, 400W Heat Element	1
6	47385	Thermostat Warmer	1
7	47563	Warmer Blower Assy	1
8	41838	Old Maid Pan	1
9	44073	Strain Relief	2
10	47358	Rubber Pad **	1
11	47985	Top Mounting Angle	1
12	47542	Tunnel Cover Weld Assy	1
13	47545	Warmer Chassis Assy	1
14	41879	Corner Cover	1

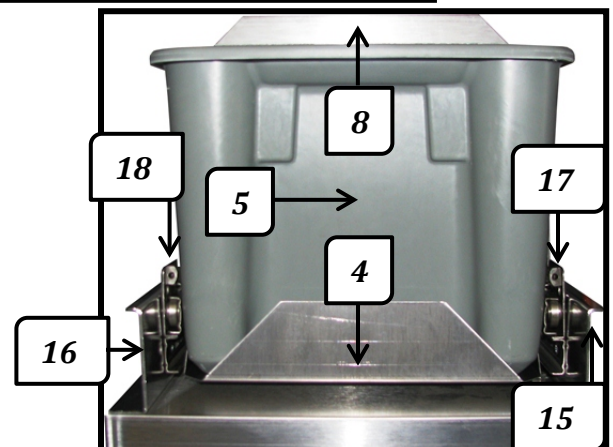
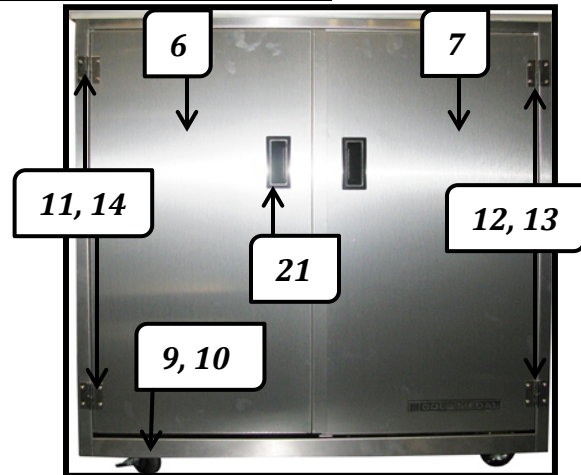
****NOTE:** Rubber pad is not actually white.
The White line displays the location of the black rubber pad (Part No. 47358)

BASE ASSEMBLY

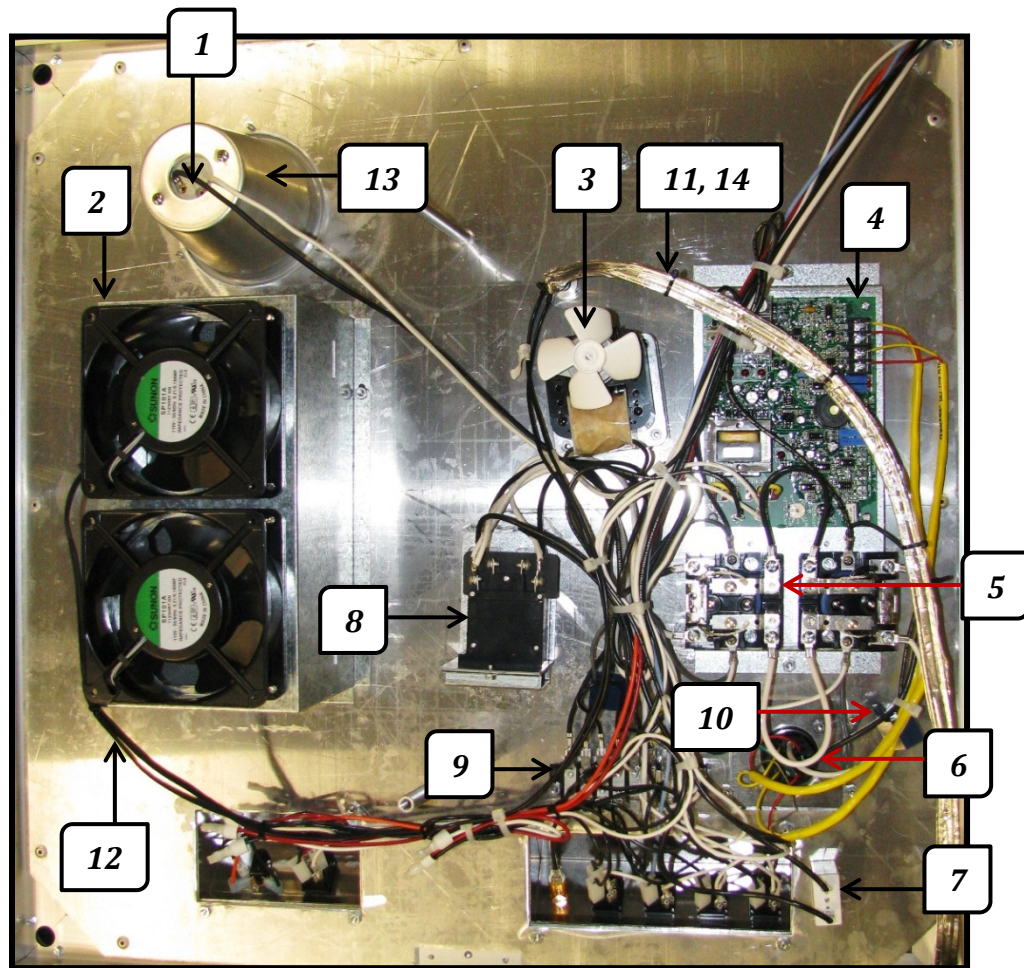
2023ETSB Only



Item	Part No.	Description	Qty.
1	41102	Bottom Corn Pan	1
2	41838	Old Maid Pan	1
3	41499	Wire Harness For Oil Pump	1
4	41215	Bin Retainer Assy	1
5	41778	Corn Bin	1
6	37326	Left Door	1
7	37327	Right Door	1
8	41777	Corn Bin Lid	1
9	37514	Swivel Caster With Lock	2
10	37513	Swivel Caster W/O Lock	2
11	41349	Male Hinge Short L	2
12	41350	Male Hinge Short R	2
13	41354	Female Hinge Short R	2
14	41355	Female Hinge Short L	2
15	82582	Mt. Angle Right	1
16	82280	Mt. Angle Corn Bin Slide	1
17	46511	Drawer Slide Weld Assy	1
18	46512	Drawer Slide Weld Assy	1
19	41282	Rubber Feet Case Bottom	4
20	47603L	Power Supply Cord	1
21	82698	Flush Mount Handle	2



TOP MOTOR PLATE ASSEMBLY



Item	Part No.	Description	Qty.
1	47047	Lamp Holder	1
2	48018	120V 60CY Exhaust Blower	2
3	47038	120V Kettle Drive Motor	1
4	41001	Temperature Control	1
5	55219	30A DPST 120V Relay	2
6	62306	Kettle Receptacle Assy	1
7	47364	15 Amp Circuit Breaker	1
8	55222	20 Amp Circuit Breaker	1
9	47208	Terminal Block	1
10	89087	240VAC Transient Filter	1
11	41640	Foil Element 8W 120V	1
12	47199	Blower Plug And Cord	2
13	49480	Light Shield Conical	1
14	41047	Oil Line Tubing	5.42'





FINAL NOTES

PLEASE NOTE

This machine is equipped with a kettle safety circuit breaker (Part No. 55222). This circuit breaker may trip during shipment due to vibrations encountered during transit.

When the circuit breaker is tripped, the kettle will not heat. Please verify if the small green indicator located on the *Kettle Heat Switch* is illuminated when this switch is in the on position. If this green indicator is off and the *Kettle Heat Switch* is in the on position, the circuit breaker has tripped.

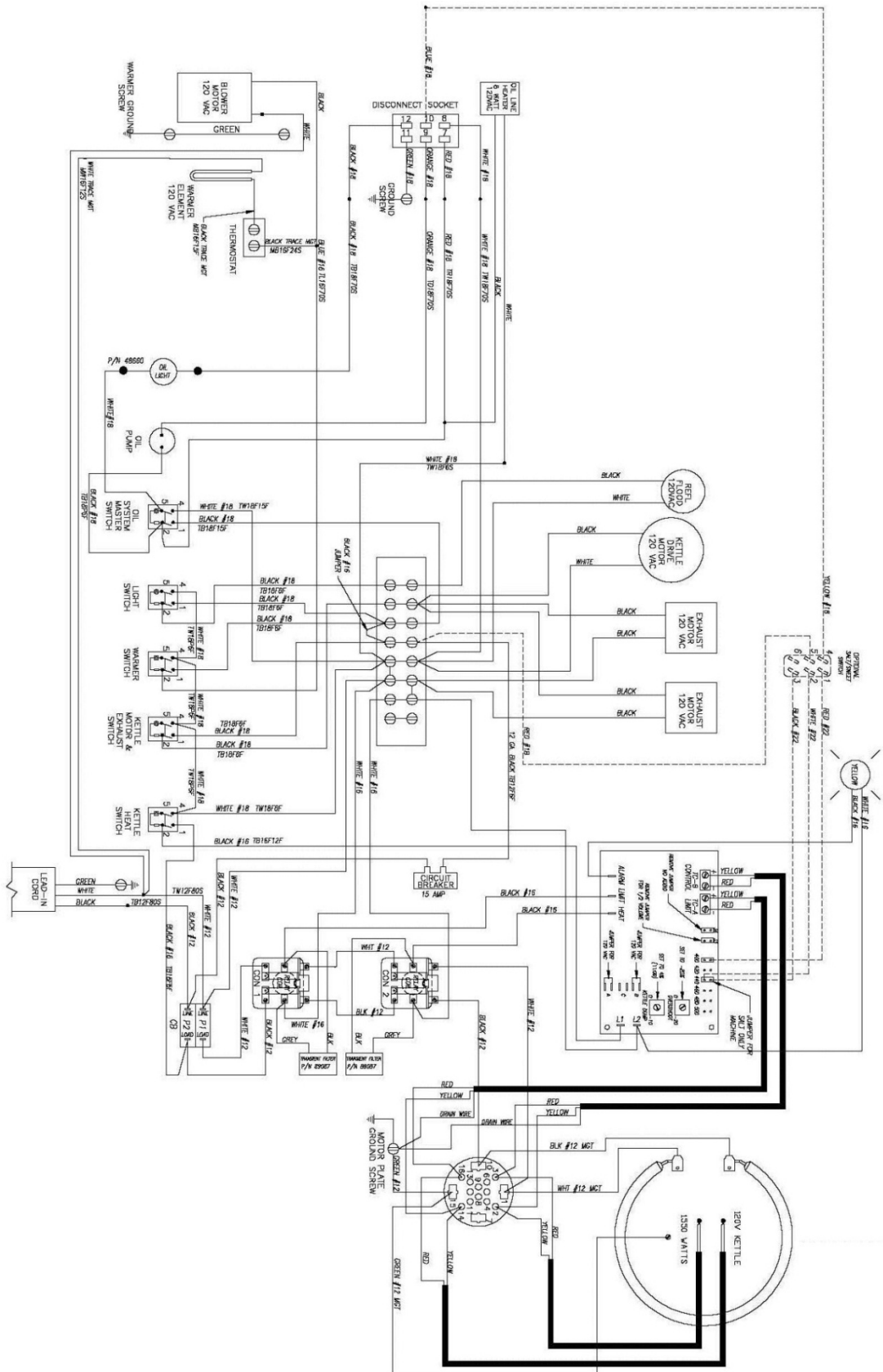
If your machine is equipped with the *Flexi-Pop* option, the small indicator on the *Kettle Stir Motor* is utilized to indicate that the circuit breaker has tripped.

In the event of a tripped circuit breaker, please contact **Gold Medal®** Products service department. The circuit breaker is not accessible to the operator.

For hanging kettle machines, the dome must be removed to access this circuit breaker. For pedestal mounted kettle machines, the front switch plate must be removed to access the circuit breaker. An additional cover must be removed to reset the circuit breaker on hanging kettle machines, refer to the below above.

A qualified service technician should reset the circuit breaker after checking the complete kettle circuit for faults. The limit and heating contactors/relays should be checked to insure that the contacts are not welded together. The kettle receptacle and plug (if provided) should be checked for loose contacts or shorted wiring. The popcorn kettle bottom must be examined to insure there is no loose hardware or other items causing a short circuit. All wiring in the kettle circuit should be checked for fraying, shorts and loose connections.

WIRING DIAGRAM



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 COMPANY

10700 Medallion Drive

Cincinnati, Ohio 45241-4807 USA

www.gmpopcorn.com

Phone: 1-800-543-0862

Fax: 1-800-542-1496