

## MODEL 99 POPCORN MACHINE

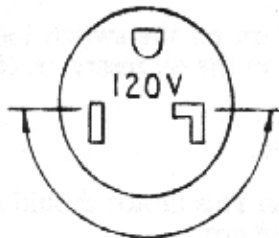
### INSTALLATION AND OPERATING INSTRUCTIONS

#### READ INSTRUCTIONS THOROUGHLY BEFORE ATTEMPTING TO USE THIS MACHINE!

Your STAR Model 99 Popcorn Machine has been thoroughly inspected and tested before being delivered to you. The voltage and type of current for which your machine is designed is specified on the nameplate. **CAUTION: DO NOT CONNECT TO ANY OTHER TYPE OF CURRENT OR THE MACHINE WILL BE SERIOUSLY DAMAGED.**

#### 118 VOLT MACHINES

Machines with nameplate stamped 118V are equipped for operation on 118 volt, 2 wire single phase service and must be connected to a separate line of at least 30 Ampere with a 3 wire polarized receptacle. The receptacle must be connected as shown in Diagram "A."



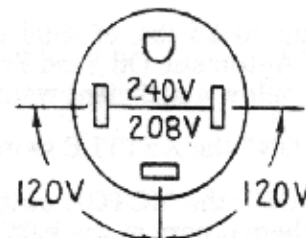
Lead in cord and receptacle are furnished with this machine. Care should be executed when buying a receptacle to meet the local electrical code requirements.

Should you desire to use the machine on a voltage other than that shown on the nameplate, contact the factory for additional information.

We strongly recommend installation by a licensed electrician. The guarantee of this machine as covered by the warranty card does not apply if an improper installation has been made.

#### 118/236 VOLT MACHINES

Machines with nameplate stamped 118/236V are equipped for operation on 118/236 Volt, or 118/208 Volt 3 wire single phase service and must be connected to a separate line of at least 20 ampere with a 3 wire polarized receptacle. The receptacle must be connected as shown in Diagram "B."



#### CONTROL PANEL

The waist-high conveniently located control panel across the center of the machine contains every switch you will use to operate this machine. The location and functions of each switch is as follows:

The control panel on the left side of the machine contains four switches marked:

1. **LIGHTS** - This switch controls the illumination of the front panel, cabinet, and top display sign.
2. **WARMER** - This switch operates corn pan warmer to hold your popped corn at the proper temperature.
3. **MOTOR** - This switch controls the motor operating the agitator shaft.
4. **KETTLE** - The kettle switch controls the heating elements in the popping kettle. These elements are thermostatically controlled. The thermostats are preset at the factory for the correct temperatures and should not require further adjustment.

The control panel on the right side of the machine is marked "AUTOMATIC OIL FEED" and contains:

5. **CONTROL SCREW** - This screw ADJUSTS the quantity of oil pumped into the popping kettle (see control panel for adjustment.)
6. **PUSH BUTTON** - This button operates the automatic oil pump.
7. **SWITCH** - This switch controls both the automatic oil feed and the heating element in the seasoning oil reservoir.

### AUTOMATIC OIL FEED

The oil pump is located in the seasoning reservoir, which is located in the lower right side of the cabinet. The seasoning reservoir is heated by means of a low wattage element which is thermostatically controlled and preset at the factory.

### OIL PUMP OPERATION

Press the button located at the left of the oil pump switch and immediately release. This will pump and discharge a measured quantity of oil into the kettle. We recommend the use of from 4-½ to 5 ounces of seasoning oil to each 18 ounces of raw corn. Because of the variations in the consistency of seasonings, it will be necessary for you to adjust the control screw to the position which will give you the correct amount. (The control is located to the left of the button.) When setting the adjustment, wait a few minutes between each pumping operation to allow surplus oil in tube to drain back into the oil reservoir. When the control has once been set for the type of oil used, the pump will then automatically discharge the same quantity of oil each time the button is pressed. **CAUTION: DO NOT HOLD IN THE BUTTON.** If the button is held in the timing mechanism, which controls the oil pump cycle will be bypassed and, as a result, oil will continue to discharge into the kettle until the button is released.

**IMPORTANT** - A duplex receptacle is located in the lower right side of cabinet. The oil pump motor plugs into the upper outlet and the oil reservoir warmer plugs into the lower outlet. Should you unplug either of these connections at any time, be sure when reconnecting to plug the motor plug into the upper outlet and the warmer plug into the lower outlet.

To remove the oil reservoir for cleaning, lift off cover and pull reservoir forward about 4". Then allow oil pump to drain. Reach in and lift up pump, which is hinged, and remove the reservoir. **WHEN REPLACING THE RESERVOIR BE SURE TO AGAIN LIFT UP THE OIL PUMP TO ALLOW RESERVOIR TO SLIDE UNDER IT.**

### GENERAL OPERATING INSTRUCTIONS

1. Place up to 25 lbs. of solid or liquid seasoning oil in the reservoir. Turn on the switch located on the right side of Automatic Oil Feed Panel. This will turn on the heating element in the oil reservoir. (If solid shortening is used, allow a sufficient warm-up period to liquify such seasoning.)
2. Turn "ON" the KETTLE switch. Allow 6 to 8 minutes to preheat kettle.
3. Turn "ON" the MOTOR switch which drives the kettle agitator blades. This motor should always be running when there is corn in the kettle. This will prevent scorching or burning of corn.
4. PUSH IN and IMMEDIATELY RELEASE the automatic oil feed BUTTON. The pump will then automatically discharge a measured quantity of oil into the kettle.  
**CAUTION:** When solid seasoning is used, a sufficient warm-up period must be allowed to permit such seasoning to liquify.
5. Place 18 ounces of raw corn (salted to taste) into the kettle. An 18 ounce corn measuring cup is supplied with your machine.
6. When the corn stops popping, dump the kettle immediately. Screen out unpopped kernels by working the corn over the perforated section in the corn pan. You may immediately recharge the kettle with oil and corn, for the next popping.
7. Turn "ON" the WARMER switch. This switch operates a circulating hot air heating system designed to keep the popped corn at the proper serving temperature.  
When the machine is not being used for popping turn off the MOTOR, KETTLE, AND AUTOMATIC OIL FEED SWITCHES.

### KEEP THE POPPING UNIT CLEAN

After each popping period, clean the kettle inside and out while it is warm. This is important because if seasoning and salt are not thoroughly removed a carbonized material will form, which condition not only lowers popping efficiency, but could damage the unit. For a high lustre on the chrome shell and lids, use a standard chrome cleaner when the kettle is cold. Use a damp cloth and mild soap solution to clean the plastic doors.

**TO REMOVE THE KETTLE FOR CLEANING:** Turn "OFF" the kettle and motor switch. Disconnect the TWIST LOCK CONNECTOR at the end of the kettle conduit. Lift the kettle from the hanger arms. Use asbestos gloves to remove a hot kettle. **DO NOT** place the kettle in water as this will damage the electrical assembly.

## REPLACEMENT INSTRUCTIONS

## KETTLE ELEMENT AND THERMOSWITCHES:

When the kettle is cold, disconnect the Twist Lock connection at the kettle conduit, and remove the kettle from the hanger arms. Unscrew the two wing nuts and remove the kettle shell. To remove the kettle elements, disconnect wire leads, then release the element clamping bars and lift off the elements. The two thermostats are removed by disconnecting the terminal wires and clamping bar.

## OIL RESERVOIR WARMER HEATING ELEMENT AND THERMOSTAT:

The heating element and thermostat are fully encased in a metal box 10" x 19½" x 2½" which is located immediately under the oil reservoir. After you have removed the oil reservoir, the heating element case can be lifted out. Then remove the 10 sheet metal screws, 3 on each side and 2 on each end of case. The metal case will then pull apart exposing the heating element and thermostat.

## CORN WARMER ELEMENT:

This element is located immediately below the corn pan in the center of the machine. To reach the element:

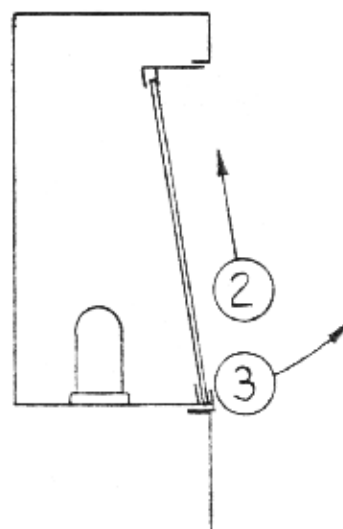
1. Remove the drawer in the lower cabinet.
2. Remove the 9 screws in the control panel and pull forward.
3. The element is attached to the rear wall of the control section by a machine screw. Remove this screw, pull element down and free of supporting pin at front of unit. The element can be reached by working through the cavity immediately above the drawer.

## TOP DISPLAY SIGN LIGHTS:

1. Turn switch for "LIGHTS" to the "Off" position.
2. Remove the four (4) screws located around the perimeter of the screen section on the decorative top.
3. Lift off the unit's decorative top.
4. Replace lamps with an equivalent 25 watt lamp.
5. Replace decorative top.

## CENTER DISPLAY SIGN LAMP OR STARTER:

1. Turn switch for "LIGHTS" to the "Off" position.
2. Push up on display sign until sign stops against upper retaining channel.
3. With the aid of a screwdriver, or other flat sided object, pry out on bottom of sign until sign pops out.
4. Replace fluorescent lamp and/or fluorescent starter.
5. Reverse procedure for installation.



TO CLEAN

## KETTLE EXHAUST FILTER:

1. Lift out filter frame located atop the unit's decorative top.
2. Filter may be cleaned with hot water.
3. Replace filter after cleaning.

## WARNING

DO NOT LEAVE THE KETTLE AND MOTOR SWITCH "ON" WHEN THE MACHINE IS NOT IN USE.

DO NOT IMMERSE KETTLE IN WATER OR ALLOW WATER TO COME IN CONTACT WITH THE HEATING ELEMENTS.

POPPING CORN IN DRY KETTLE IS NOT RECOMMENDED.

DO NOT CONNECT MACHINE TO DIRECT CURRENT, AS THIS UNIT IS DESIGNED TO OPERATE ONLY ON ALTERNATING CURRENT.



# PARTS LIST

November 8, 2005

## 18 oz. Machines Parts MODEL **99 Series Machines**

No Longer Available	Part Number	Number Per Unit	Description & Model Designation
NLA	<del>99012</del>	<del>1</del>	<del>KETTLE ASSEMBLY COMPLETE W/LIDS &amp; AGITATOR</del>
	99036	1	KETTLE ASSEMBLY COMPLETE LESS LIDS & AGITATOR
	2N-8631	1	ELEMENT 1600W (INNER)
	2N-8632	1	ELEMENT 800W (OUTER)
	95086	1	KETTLE ASSEMBLY COMPLETE (240V)
	2T-6213	2	THERMOSTAT
NLA	<del>8706</del>	<del>5</del>	<del>ARM ELEMENT CLAMP</del>
	C3-8707	1	ARM THERMOSTAT CLAMP
NLA	<del>8625</del>	<del>1</del>	<del>KETTLE CASTING</del>
	2N-8633	1	ELEMENT 1600W 236V
	2P-1022	1	AGITATOR BEARING
	C3-99017	1	KETTLE LID ASSEMBLY COMPLETE
	C3-99015	1	CROSS BAR ASSEMBLY
	2P-1021	1	CROSS BAR BEARING
	2N-8634	1	ELEMENT 800W 236V
	8704	1	KETTLE VENT TUBE
	C3-99018	1	RIGHT KETTLE LID W/FUNNEL
	4182	1	KETTLE LID FUNNEL
	C3-8636	1	LEFT KETTLE LID
	8709	1	KETTLE LID LIFT
	1271	1	KETTLE LID LIFT KNOB
	2F-Y2905	4	KETTLE LIFT HINGE
	44222	1	KETTLE SHOCK ABSORBER ASSEMBLY
NLA	<del>C3-99014</del>	<del>1</del>	<del>AGITATOR SHAFT ASSEMBLY - LESS BLADES</del>
NLA	<del>C3-8622</del>	<del>1</del>	<del>AGITATOR SHAFT ONLY</del>
	1024	1	NEEDLE BEARING
	2688	1	LOWER SPUR GEAR
NLA	<del>C3-99025</del>	<del>1</del>	<del>AGITATOR BLADE ASSEMBLY</del>
	7314	1	SET COLLAR
NLA	<del></del>	<del>1</del>	<del>KETTLE SHELL ASSEMBLY</del>
	40223	1	TRIP HANDLE ASSEMBLY
	1114	1	HANDLE CASTING
NLA	<del>1037</del>	<del>1</del>	<del>HANDLE BOLT &amp; SLEEVE</del>
	2R-8293	1	WOOD HANDLE
	8672	1	4" X 3 3/4" FILTER
	C3-44214	1	KETTLE SUPPORT - FRONT
NLA	<del>42212</del>	<del>1</del>	<del>KETTLE SUPPORT - BACK</del>
	4417	1	KETTLE STOP
	C3-2230	1	KETTLE INSULATION
	2979	1	KETTLE CONDUIT
	99033	1	KETTLE LEAD WIRES
NLA	<del>99034</del>	<del>1</del>	<del>KETTLE JUMPERS</del>
	99035	1	KETTLE CONDUIT COMPLETE W/WIRES & T/L CAP

**IMPORTANT: WHEN ORDERING, SPECIFY VOLTAGE OR TYPE GAS DESIRED  
INCLUDE MODEL AND SERIAL NUMBER**

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Some items are included for illustrative purposes only and in certain instances may not be available.

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November 8, 2005

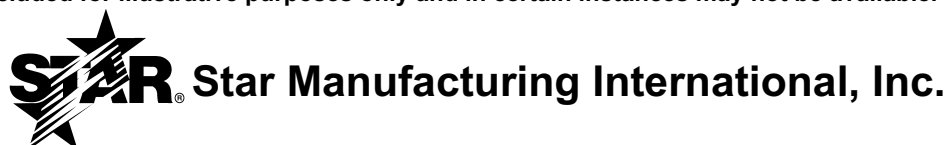
18 oz. Machines Parts  
MODEL **99 Series Machines**

No Longer Available	Part Number	Number Per Unit	Description & Model Designation
NLA	2874	1	MALE T/L CAP 4-WIRE
	4469	1	FEMALE T/L RECEPTACLE 4-WIRE
	95022	1	HANGAR ARM ASSEMBLY FRONT
	95023	1	HANGAR ARM ASSEMBLY REAR
	3966	1	KETTLE SWITCH
	3966	4	SWITCH (WARMER, LIGHTS, MOTOR)
	3988	5	SWITCH KNOB
	Y2405	1	MOTOR (SERIAL #9900834 & UP)
	99060	1	MOTOR W/Y1823 MOTOR MOUNT PLATE (SEP. # 9900508 TO #99008338)
	99052	1	MOTOR REPLACEMENT KIT (UP TO SERIAL #9900508)
	40515	1	GEAR BOX AND BEARING ASSEMBLY
	2149	1	GEAR BOX END PLATE
	2683	1	GEAR BOX GASKET
	2682	1	OIL SEAL
	4814	1	GEAR BOX SHAFT
	1905	1	STEEL WORM
	2685	1	BRONZE GEAR
	Y1887	1	UPPER SPUR GEAR
	5394	1	MOTOR MOUNTING BRACKET
	5370	1	MOTOR SUPPORT
	Y1887	1	SPUR GEAR (USED WITH Y1822 MOTOR)
	3704	1	PIN GROOV
	<b>SEASONING PUMP PARTS</b>		
	95018	1	SEASONING PUMP ASSEMBLY
	95013	1	BRACKET ASSEMBLY
	5371	1	MOTOR
	5367	1	MOTOR COUPLING
	5397	1	PUMP SHAFT
	5358	1	HINGE
	5389	1	PLASTIC TUBING 76 1/2"
	5360	2	OIL TUBE CLAMP
	9604	1	OIL PAN
	5340	1	OIL PAN COVER
	<b>SEASONING WARMER PARTS</b>		
	95021	1	OIL WARMER ASSEMBLY COMPLETE
	2977	1	DUPLEX RECEPTACLE
	95056	1	OIL WARMER LEAD IN CORD
	95020	1	ELEMENT COMPELTE
	5380	1	ELEMENT COIL ONLY
	4841	1	THERMOSTAT

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18 oz. Machines Parts  
MODEL **99 Series Machines**

No Longer Available	Part Number	Number Per Unit	Description & Model Designation
NLA	<b>SEASONING TIMER PARTS</b>		
	59041	1	TIMER & REGULATOR ASSEMBLY
	8638	1	TIMER ONLY
	99007	1	TIMER SUPPORT ASSEMBLY
	52015	1	WARMER ELEMENT FOR CORN PAN
	H7650	1	WARMER MOTOR
	8642	1	FAN MOTOR BRACKET
	6231	1	FAN BLADE
	1718	4	LAMP SOCKET
	1280	4	LAMP (WHITE 25W)
	2879	6	FLUORESENT SOCKET
	4585	2	FLUORESENT LAMP (YELLOW 15W)
	6254	1	FLUORESENT LAMP (WHITE 20W)
	2888	3	FLUORESENT STARTER
	4219	3	BALLAST
	<b>CABINET PARTS</b>		
	99049	1	TOP ASSEMBLY (COMPLETE)
	99002	1	TOP ASSEMBLY (LESS SIGN)
	8661	1	TOP SIGN
	8677	1	CLIP - TOP SIGN (SET OF 9)
	8660	1	SIGN - BOTTOM
	99001	1	TOP TRIM ASSEMBLY
	Y1709	1	FOLDING DOOR HINGE
	95028	1	FOLDING DOOR ASSEMBLY
	3675	4	DRAWER PULL
	5284	4	VERTICAL TRIM - INSIDE
	5285	2	VERTICAL TRIM - OUTSIDE FRONT
	5286	1	VERTICAL TRIM - OUTSIDE REAR LEFT
	5296	1	VERTICAL TRIM - OUTSIDE REAR RIGHT
	5349	2	DOOR - PLEXIGLASS
	1272	2	DOOR - KNOB
	6204	4	DOOR - CATCH W/STRIKE
	95059	2	DOOR HINGE ASSEMBLY - LEFT
	95060	2	DOOR HINGE ASSEMBLY - RIGHT
	5382	1	CORN PAN TRIM - LEFT
	5383	1	CORN PAN TRIM - RIGHT
	5353	3	CLIP - CORN PAN TRIM
	95033	1	CORN PAN ASSEMBLY
	95016	1	CORN DRAWER ASSEMBLY COMPLETE
	95008	1	DRAWER ONLY
	5328	1	DRAWER FRONT TRIM
	5369	2	DRAWER SLIDE

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**Star Manufacturing International, Inc.**

# PARTS LIST

November 8, 2005

18 oz. Machines Parts  
MODEL **99 Series Machines**

No Longer Available	Part Number	Number Per Unit	Description & Model Designation
NLA	5293	1	PANEL END - LEFT
	5295	1	PANEL END - RIGHT
	99011	1	FRONT PANEL ASSEMBLY
	5326	1	KICK PLATE
	99024	1	CORN BIN ASSEMBLY COMPLETE
	Y1710	1	CORN BIN DOOR HINGE
	8654	1	CORN BIN DOOR FRONT
	8656	1	CORN BIN DOOR LINER
	8646	1	CONTROL PANEL
	95003	4	CASTER PLATE ASSEMBLY
	3376	4	CASTER
	<b>GLASS AND ACCESSORIES</b>		
	5384	1	GLASS FRONT (32" X 28-3/16" D.S.)
	5385	2	GLASS SIDE (22-11/16" X 28-3/16" D.D.)
	<del>1167</del>		<del>RUBBER CHANNEL FOR GLASS REGULAR 1/4" X 3/8"</del>
	8729		RUBBER CHANNEL FOR GLASS SPECIAL 11/32" X 1/2"
	8334	1	CORN SCOOP
	8639	1	MEASURING CUP
	Y1704	1	CLIP - KETTLE LID PAN

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