

INSTALLATION & OPERATING INSTRUCTIONS  
STAR MODEL 50 & 51 POPCORN MACHINES

INSTALLATION INSTRUCTIONS

Your Popcorn Machine has been built to give efficient and satisfactory service. To profitably benefit from its operation it is necessary to have an understanding of its many features. Please follow these instructions closely.

1. ELECTRICAL INFORMATION. The STAR 50 & 51 are normally equipped for operation on 118 volt, 60 cycle, AC, single phase service. These machines are wired for straight two-wire power. The lead-in cord consists, however, of three wires, the green being the ground wire.

A polarized receptacle is furnished with your machine. CAUTION: When wiring the polarized receptacle to the power circuit, a ground wire must be attached to the terminal in the receptacle marked "GROUND," and the other end of the ground wire fastened to a good ground such as a water pipe, or the conduit system itself.

Your machine must be connected to a sufficiently heavy circuit so that it will receive the required amount of electricity. Insufficient power, usually evidenced by a dimming of lights on the circuit when the kettle switch is on, results in the element being unable to develop enough heat for the proper popping of corn.

This machine will not operate on (DC) direct current. Connecting this machine to a DC line will burn out the thermostat and possibly cause damage to the element.

When so specified STAR 50 & 51 Machines are built to operate on 236 volts, AC, single phase service.

CAUTION: We strongly recommend that a competent electrician wire up your machine. Unless correctly wired, which is your responsibility, your machine will not operate properly and may even be damaged.

2. SWITCHES. The main switches are located on the right side of the motor housing above the popping kettle. The top switch is for the lights, the middle switch for the agitator motor and the large lower switch is the main kettle switch. The corn pan elements are turned on and off by the switch located just above the cash drawer.

3. THERMOSTAT. A Fenwal expanding case thermostwitch is mounted directly on the bottom of the kettle where it accurately controls the temperature of the surfaces which pop the corn. The thermostat is set at the factory for the correct popping temperature and no further adjustment is necessary. Should an unusual condition arise in which a different heat range is required, an adjustment may be made with a screwdriver through the hole in the bottom of the kettle shell. To raise the temperature, turn clockwise. To lower the temperature, turn counter-clockwise. IMPORTANT: Turn a very slight amount at one time and then wait at least five minutes for the thermostat to level at the new setting.

MAINTENANCE

1. KETTLE ASSEMBLY. The popping kettle on the 50 & 51 is extremely simple in construction. It is designed for easy cleaning and servicing. When dismantling the kettle, remove it from the machine by pulling the hinge pin on the right side. The kettle shell can then be removed by merely taking off the two cap nuts on the bottom of the kettle.

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Should it be necessary to replace an element, you have only to disconnect the two wires at the element terminals and remove the two hex nuts holding the element to the kettle bottom. The element then lifts clear and a new element can be easily and simply installed. The kettle is then re-assembled in the reverse order described above. IMPORTANT: Make sure that the asbestos insulation is replaced in exactly the same position as when removed.

2. MOTOR HOUSING ASSEMBLY. By merely removing the two thumb nuts and lifting off the cover, all the parts within the motor housing become accessible for maintenance, cleaning and lubrication.

~~MOTOR: The motor should be lubricated only once every six months with ten drops of a good grade of #10 weight motor oil. Do not use too much.~~

GEARS: Gears should be lubricated at least once each month, oftener if the machine is heavily used. A good grade of fibre or wheel bearing grease is recommended.

OPERATING INSTRUCTIONS

First, turn on the main kettle switch and the motor switch. Allow the kettle to heat for approximately 4 minutes. The kettle should then be ready to pop corn.

Dump into the kettle 8 oz. of raw corn, 2-2/3 oz. of seasoning and salt to taste (approximately 1 teaspoonful). For best results these exact amounts should be used.

After the corn has reached the popping peak and begun to slow down, turn the handle on the left side of the kettle and dump the remainder of the corn into the corn pan. When the kettle is swung back into operating position it is ready to refill on a second popping cycle. Do not wait between batches --- refill with corn, seasoning and salt immediately. When not popping continuously, turn off main kettle switch.

At times a screeching or scraping sound may be heard coming from the kettle. Do not be alarmed as this is caused by an undersized grain of corn catching underneath the agitator and no harm can be done.

The new automatic connector feature of the kettle is two-fold in purpose. It eliminates the kettle cord and helps to prevent kettle overheating during the dumping operation, for it disconnects the element as soon as the kettle is dropped and does not connect again until the kettle is back in place.

Following the above operating instructions and using a good grade of corn and seasoning not only assures you of a better product but also increases your profit by giving you maximum popping volume per pound.

CLEANING

Keep your machine clean. No one wants to eat popcorn from a dirty machine. Clean your entire machine every day and it will be easy to keep clean, bright and attractive.

At the end of each day's operation the kettle should be wiped carefully both inside and out. As the inside of the kettle becomes too heavily discolored, it may be brightened up with steel wool or a fine sandpaper. The outside chrome shell of the kettle may be cleaned with any non-abrasive cleaning powder.

The cabinet of your machine may be cleaned with any of the regular household cleaners.

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THOROUGHLY INSPECT YOUR MACHINE UPON ARRIVAL

We do everything in our power to insure delivery of your machine in perfect condition. However, there are instances in which damage occurs in transit. In the event that your machine is damaged in transit, have the transportation company make the necessary notations on your freight bill or delivery receipt. Immediately report this damage to the dealer from whom you ordered the Model 50 or 51. The dealer will advise proper handling instructions.

If damage is not discovered until after delivery has been made, notify the transportation company immediately. However, in each instance request an inspection report to cover whatever damage has occurred.

WARRANTY

All workmanship and materials in STAR products are fully warranted for a period of one year from the date they are placed in service. Should any imperfection develop within this period, we will make all necessary part replacements or repairs free of charge, provided:

1. That the warranty card has been properly filled out and returned to the Star Manufacturing Company at the time the equipment was put into service.
2. That either the entire piece of equipment or any part which fails is returned to the Company for inspection, transportation charges prepaid.
3. That the failure of the equipment or part is not due to misuse, damage, abuse or improper installation.

NOTE: Any expense in connection with installation, or costs of making adjustments on this machine to conform to electric service at point of installation, are not covered by this warranty.

For any assistance in the operation or maintenance of your STAR Model 50 or 51, write to the Service Department of the Star Manufacturing Company, being sure to mention the model and serial number of your machine and the voltage on which it is being operated.

STAR MANUFACTURING COMPANY

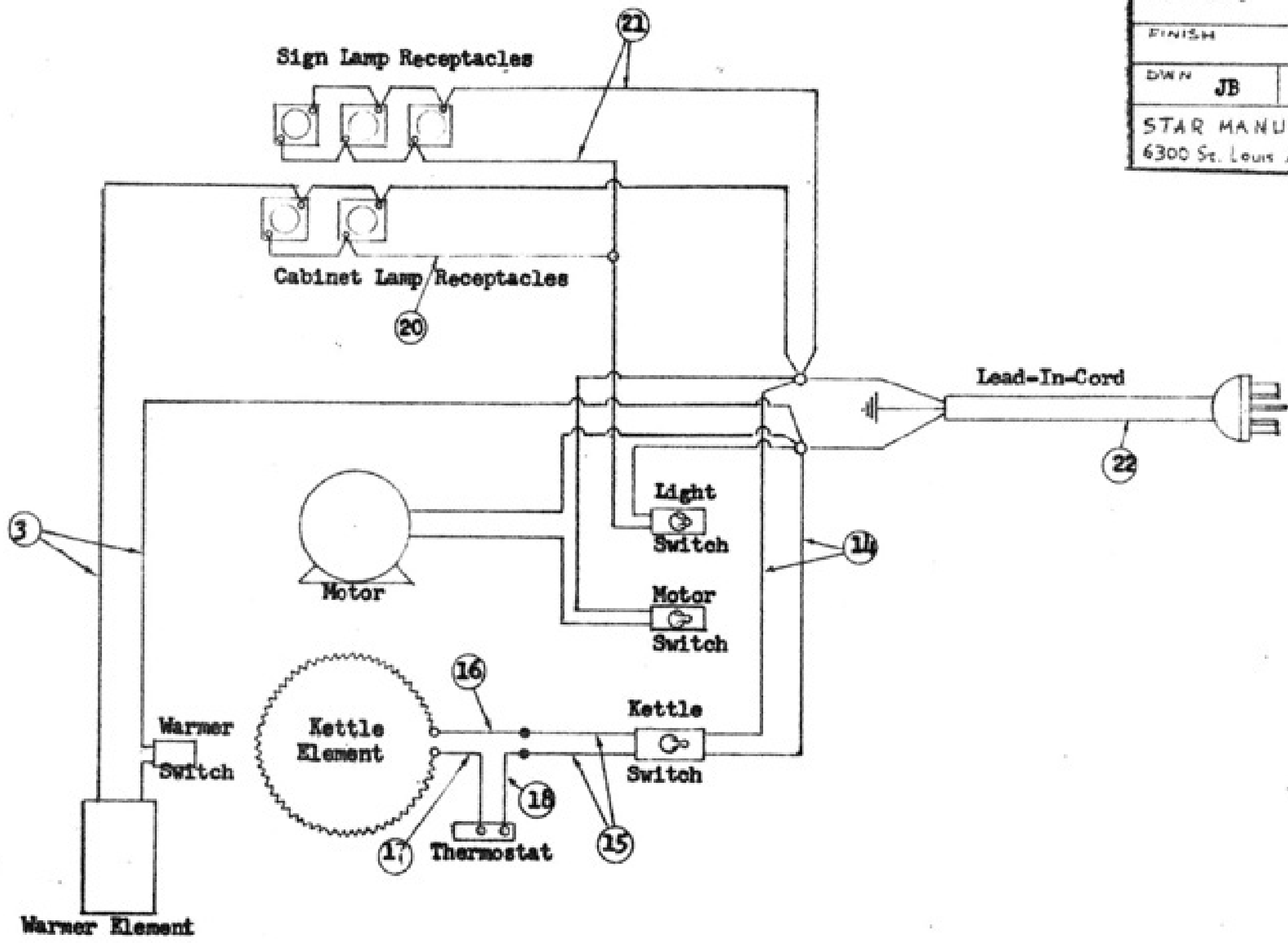
Division Hercules Steel Products Corporation

6300 St. Louis Avenue

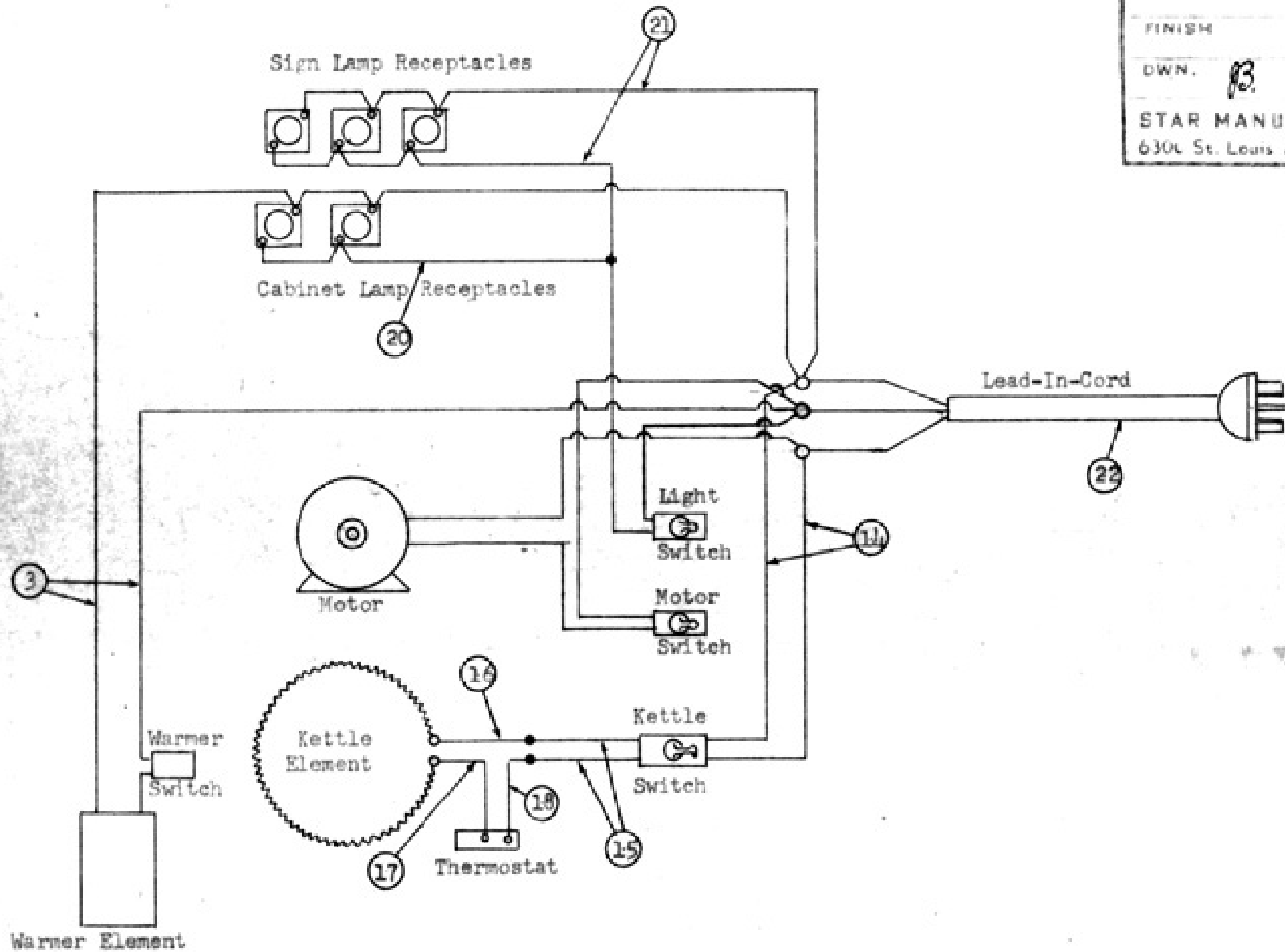
St. Louis 20, Missouri

SA-158

MODEL NO.	50-51	118 Volt
TITLE	POPCORN MACHINE WIRING DIAGRAM	
MATERIAL		
FINISH		
DWN	JB	DATE 8-5-55
STAR MANUFACTURING CO. 6300 St. Louis Ave. - St. Louis, Mo.		



MODEL NO.	50-51	236 Volt
TITLE	POPCORN MACHINE WIRING DIAGRAM	
MATERIAL		
FINISH		
DWN.	<i>JB.</i>	DATE 8-5-55
STAR MANUFACTURING CO. 6304 St. Louis Ave. - St. Louis, Mo.		



STAR MANUFACTURING COMPANY - ST. LOUIS , MO.  
Division of Hercules Galion Products, Inc.

MODELS 50 and 51

STAR FLOOR AND COUNTER MODEL POPCORN MACHINES

PARTS PRICE LIST

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>NO. PER UNIT</u>
50241	Kettle Complete	1
50238	Kettle Bowl	1
50240	Kettle Element (118V)	1
50260	Kettle Element (236V)	1
2720	Kettle Element Terminal Set	2
6213	Thermostat	1
87029	Kettle Wires (3 wires)	1 Set
2802	Thermostat Clamp	1
50233	Male Contact Assembly	1
1754	Contact Blade	2
1252	Upper Insulator	1
1253	Lower Insulator	1
2229	Kettle Bottom Insulation	2
2385	Kettle Side Insulation	2
2386	Mica Contact Insulation	2
1712	Kettle Shell	1
50257	Trip Handle Complete	1
50251	Trip Handle	1
50252	Trip Collar	1
2814	Trip Collar Spacer	2
1422	Hinge Pin	1
50223	Motor Box Complete	1
4728	Motor 60 Cycle 1/20 HP 118V	1
1905	Steel Worm	1
5967	Bronze Gear	1
50215	Agitator shaft with blade	1
1171	Set Collar	4
50258	Motor Box and Bearing	1
1021	Shaft Bearing (Graphite)	1
1088	Motor Box Cover	1
1055	Absorber Bumper	3
2541	Absorber Grommet	3
3188	Kettle Switch	1
1760	Small Toggle Switch	2
50242	Female Contact Assembly	1
1753	Contact Clip	2
1251	Contact Insulator (Thick)	1
3674	Contact Insulator (Thin)	1
2392	Contact Insulation (Mica)	1
50256	Lead-in Cord Assembly	1
1066	Lead-in Cord Plug	1
1472	Lead-in Cord Receptacle (Wall)	1

STAR MODELS 50 and 51 PARTS PRICE LIST  
(Continued)

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>NO. PER UNIT</u>
50221	Motor Box Vent Tube	1
50229	Kettle Lid Assembly Complete	1
2379	Kettle Lid Handle	1
1272	Kettle Lid Handle Knob	1
50230	Kettle Latch Complete	1
2815	Kettle Latch	1
2803	Kettle Latch Hinge	1
2806	Kettle Latch Spring	1
1056	Kettle Rubber Bumper	1
<u>UPPER CABINET</u>		
50210	Top Frame	1
2363	Top Cover	1
1059	Top Porcelain Bushing	1
1704	Sign "DELICIOUS"	2
1706	Sign "FRENCH FRIED POPCORN"	1
2364	Sign clip	4
1462	Sign Lamp Receptacle	3
2722	Sign Lamp Wire Set (#16 Stranded Copper 2-40")	1
50213	Fume Panel	1
2354	Inside Top Liner	1
50205	Inside Top & Trim Band	1
1060	Inside Top Porcelain Bushing	1
1463	Cabinet Lamp Receptacle	2
2723	Lamp Receptacle Wire Set (#16 Stranded Copper 1-30")	1
2351	Cabinet Lamp Shield	2
2349	Corner Post	4
1479	Tie Rod	4
1201	Side Glass (14 $\frac{1}{2}$ x 24 D.S.)	2
1205	Front Glass (20 $\frac{1}{2}$ x 24 D.S.)	1
50204	Glass Holding Strip & Door Stop	2
2105	Glass Screw Holder	8
50244	Glass Sliding Door Complete	1
50207	Sliding Door Frame	1
2355	Sliding Door Top	1
2348	Sliding Door Handle	1
1431	Sliding Door Anchor	2
1480	Sliding Door Roller	2
1203	Sliding Door Glass (16-5/8 x 19 D.S.)	1
1167	Rubber Channel	-

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STAR MODELS 50 and 51 PARTS PRICE LIST  
(Continued)

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>NO. PER UNIT</u>
50245	Stainless Folding Door Complete	1
2345	Folding Door	1
1161	Folding Door Catch	2
3675	Folding Door Handle	1
2342	Corn Pan (Stainless)	1
171024	Warmer Element	1
1760	Warmer Element Switch (also Motor & Light Switch)	3
2724	Warming Element Wire Set (#16 Stranded Copper 2-66")	1
2824	Warmer Wire Conduit (37")	1
2937	Warmer Element Switch Insulation	2
2343	Warmer Element Cover	1
1086	Trim Casting	1
51252	Base (Counter Model #51 Only)	1

LOWER CABINET

2327	Front Corner Panel	2
2328	Back Right Corner Panel	1
2329	Back Left Corner Panel	1
2330	Front & Side Chrome Panel	3

NOTE: OPERATOR'S SIDE IS THE BACK

2326	Bottom Panel	1
50203	Drawer Slide	1
2340	Drawer Rail	2
50246	Drawer Complete	2
50202	Drawer Body	2
2339	Drawer Front	2
3675	Drawer Handle	2
50243	Lower Door Complete	1
50201	Corn Bin & Door Liner	1
2332	Lower Door Panel	1
1161	Lower Door Catch	1
1226	Lower Door Hinge	1
3675	Lower Door Handle	1
3376	Caster (Wheel)	4

ACCESSORIES:

1483	Corn Scoop	1
50220	Cash Tray	1
3194	Corn Measure Cup	2
3583	Seasoning Pot	1
3191	Waste Pan (Counter Model #51 Only)	1

SPECIFY MODEL NUMBER, SERIAL NUMBER AND VOLTAGE WHEN ORDERING.

Prices are f.o.b. St. Louis, Mo. - Subject to change without notice.

Effective 2/2/58.

Revised 11/14/58.

STAR MANUFACTURING COMPANY

ST. LOUIS , MISSOURI.