

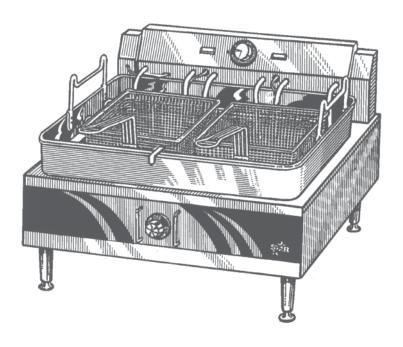
Star Manufacturing International Inc.

10 Sunnen Drive St. Louis, MO 63143

Phone: (314) 781-2777 FAX: (314) 781-3636 Installation and Operating Instructions

2M-Y8967 Rev. C 01/06/05

DEEP FAT FRYER MODEL 530F









GENERAL INSTALLATION DATA



CAUTION

This equipment is designed and sold for commercial use only by personnel trained and experienced in its operation and is not sold for consumer use in and around the home nor for use directly by the general public in food service locations. For equipment to be used by the general public, please contact the factory.

WARNING: Improper installation, adjustment, alteration, service or maintenance can cause property damage, injury or death. Read the installation, operating and maintenance instructions thoroughly before installing or servicing the equipment.

This fryer is equipped for the voltage and wattage indicated on the nameplate mounted on the lower right corner of the element housing. It is designed for use on alternating current (AC) only. It is intended for use by properly trained personnel only.



CAUTION

DO NOT CONNECT TO DIRECT CURRENT (DC)

The installation of the appliance should conform to the:

NATIONAL ELECTRIC CODE AND ALL LOCAL ELECTRIC CODES AND ORDINANCES AND THE LOCAL ELECTRIC COMPANY RULES AND REGULATIONS For your protection we recommend that a qualified electrician install this appliance. He should be familiar with electrical installations, and all electrical codes. Proper connections and power supply are essential for efficient performance. The external wiring should be in conduit or an approved type of flexible cable suitable for operation at 90° C (194° F) and of a proper size to carry the load. The supply circuit should be properly fused and equipped with a means of disconnection, as required by local electrical code. THE BODY OF THE APPLIANCE SHOULD BE GROUNDED, DO NOT GROUND TO A GAS SUPPLY LINE. Four legs are provided and should be installed for ease of cleaning. Level unit by adjusting the (4) feet which have an adjustment of 1-3/8" (34.92 mm) for accurate leveling and perfect line-up with other units.

POWER SUPPLY

The Model 530F is wired at the factory for operation on a three phase power supply. For specific wiring, check the wiring diagram.

OPERATING INSTRUCTIONS

CLEAN KETTLE BEFORE USING

Take out baskets, push and hold element catch, lift up on element lift handle until elements lock in a vertical position, and remove kettle. The kettle can be cleaned in a sink like any other pot or container.

ADDING FAT

Replace kettle and swing the element down, making fryer ready for use. Add fat. A fat level line on the rear of the kettle will guide you in determining the minimum cold fat level. A higher fat level can be used when frying bulky foods, such as chicken or fish cakes. The fat level should be chosen carefully so that the foaming action of the fat does not spill out of the kettle. If solid shortening is used, pack carefully around the elements.

CONTROLS

- A. ON/OFF TWO-POLE SWITCH Located on the front panel is a two-pole switch which turns power on or off. An indicator light (Power On) is located on the control housing.
- B. THERMOSTAT CONTROL Located on the Control Housing, this control allows you to select the desired frying temperature. A signal light "Heating" indicates when the element is on. When the light goes off, the desired temperature has been reached.
- C. HI-LIMIT THERMOSTAT Should fat temperatures reach 450° F (230° C), this control will shut off the power. Both lights on the control panel will go out. The fat temperature must cool to 400° F (202.4° C) and the manual reset button located on the back panel of the control housing must be pressed to restore operation. Should the hi-limit control activate twice in succession, the primary thermostat should be checked for malfunction by a qualified service technician.

FRYING

After fat has been added, turn the switch on and set the thermostat at 200° F (92.4° C). After the fat has melted, turn the thermostat to the desired setting. Included in this instruction booklet is a frying chart and some helpful hints on fat use. After the selected fat temperature has been reached, slowly lower half filled baskets into the fat. Do not overload baskets as this causes foods to be improperly fried.

NOTE: Baskets should be allowed to drain after frying cycle. The kettle handles serve as basket hangers.

IDLING

During idle periods turn thermostat control to approximately 200° F (92.4° C). The fast recovery fryers can be brought up to frying temperature in a matter of minutes. Lowering the temperature during idle periods saves energy costs and prolongs fat life.

DRAINING KETTLE

Turn switch to "OFF". Raise element to the first stop and allow to drain. Raise the element to the vertical position and siphon the oil out of the kettle. DO NOT ATTEMPT TO REMOVE THE KETTLE FILLED WITH HOT OIL. If you do not have a siphon, order one from your dealer or dip the oil out and strain into a container. After oil has been removed, remove the kettle and clean.

CLEANING THE EXTERIOR

The exterior surfaces can be cleaned by regularly wiping with a soft cloth. Any discoloration can be removed with a non-abrasive cleaner.

MAINTENANCE AND REPAIRS

Contact the factory or one of its representatives or a local service company for service or maintenance if required.

RETAIN THIS MANUAL FOR FUTURE REFERENCE Part No. 2M-Y8967 01/06/05

Rev. C

CAUTIONS FOR ALL DEEP FAT FRYERS

NEVER LEAVE AN OPERATING FRYER UNATTENDED

REMEMBER HOT OIL IS DANGEROUS - RESPECT IT!

- 1. Hot oil is dangerous Severe burns can result when hot oil contacts the skin.
- Locate your fryer in a protected place so it cannot be knocked over or off its support.
- 3. Keep your floors clean and free of grease so no one slips accidentally and contacts the hot fryer.
- 4. Hot oil is flammable Keep open flames away from it and its vapors.
- Keep areas and filters clean above your fryer - Oil soaked lint or dust can ignite easily and flames will spread rapidly.
- 6. Install an automatic fire extinguisher over the fryer and in the exhaust duct.
- 7. Have your equipment checked regularly to insure its safe and proper functioning.

- 8. If your fryer starts to smoke or boil abnormally, cut off the energy supply immediately and determine the reason for the smoking or boiling before attempting to use it again.
- Be sure your energy supply is installed properly and in accordance with the local and national codes. There should be a convenient switch or gas valve, readily available, close to the fryer for such a shut-off procedure.
- 10. See that all of your help understand the hazards of hot fat. Instruct them on the proper action to take if something does not seem to be acting properly.
- 11. Instruct your personnel on what to do if there is a fat fire. Do not use water on an oil fire! Use only fire extinguishers of the approved type and never direct such extinguishers so as to blow the oil out of the oil container.
- 12. Never allow water to get in hot fat.

It can explode!

CARE OF FAT

In three to six months you may spend as much for fat as you paid for your kettle. So fat is an item you want to know all about; how to select it; how to manage it. The more production you can get from each pound of fat, the more profitable your frying operation will be.

To get a high rate of production per pound of fat you have to avoid two things. One is early breakdown and spoilage of the compound so that you have to throw it away before it does enough work to "earn its keep". The other is excessive sponging up of fat by the food being fried.

The main cause of fat breakdown is excessive heat. On the other hand abnormal absorption is caused by frying too long at too low temperatures. One answer to both problems is exact control of heat — so that fat neither smokes up nor soaks up.

Of course, no fat 'keeps" forever. Not only heat, but air and moisture, salt particles and crumbs of food work to break it down. But you can slow up fat deterioration by maintaining proper temperatures and by draining your kettle, filtering or straining the fat once or twice a day and by keeping the kettle itself absolutely clean. A number of commercial devices and materials are available to aid in eliminating fat impurities. There are several excellent models of pressure filters as well as strainer-type filters, which, if used regularly will prolong life of fat.

However, no purification device will renew broken down or rancid fat or put new life into it. Once you have allowed fat to break down it becomes unsuitable for frying — in fact browning is impossible.

In addition to filtration, you can prolong the usefulness of fat by sweetening it with fresh compound every day - replacing about 15% of the bulk you started with. If you do enough frying so that normal absorption of fat in food amounts to 15% to 20% of the capacity of your kettle every day - then you can call your turn-over food. It means you can add the recommended 15% of fresh fat without discarding any of the old.

10 POINT PROGRAM TO PRESERVE FAT AND PRODUCE THE FINEST FRIED FOODS

- Choose a fat that does not break down quickly.
 Hydrogenated shortening, corn, and peanut oils
 are less likely to break down under high
 temperatures.
- 2. Do not fry foods at temperatures above those recommended. The higher the fat temperature, the more rapid the rate of fat deterioration. Above 400°F fats quickly deteriorate.
- During short intervals between frying, turn the heat down. Do not keep heat on for long periods between batches.
- Keep fat clean. Strain or filter daily or at end of each shift. Add at least 15% fresh fat to your kettle daily.
- 5. At least once a day, cool a small amount of fat and taste it to see if it has picked up foreign flavors.

- Discard fat that tends to bubble excessively before food is added.
- Do not overload baskets-pieces should not touch when frying. Shake baskets to prevent food from sticking together. Fry similar sizes together.
- Never salt foods directly over fat, salt in fat reduces its life.
- Raw, wet foods, such as potatoes and oysters, should be drained or wiped dry before frying to extend the life of the frying fat. Have foods to be fried at room temperature.
- 10. Keep fat temperatures below smoking point to minimize frying odors.

HANDY FRYING CHART

FOOD	COATING	PROCEDURE	TEMP OF	TIME IN MINUTES
POTATOES				
Standard French Fries		Cut in uniform pieces 1/2"	350	5-7
Blanch Only		square the long way	350	3-1/2
Brown Only			350	3-1/2
Long Branch		Cut in uniform pieces 3/4"		
		square the long way	350	7-10
Julienne (shoe string)		Cut in uniform pieces 1/8"		
China		to 1/4" square the long way	350	3-6
Chips		Soak in cold running water until water does not run milky	350	2-3
CHICKEN				·
Large Pieces	Batter or	Some prefer rolling in	325	9-11
Small Pieces	Breading	seasoned flour, dipping in egg	340	7-10
Pre-cooked		wash, and frying	350	3-4
FISH				
Fillets (Large)	Breading	Select fillets of uniform	350	4
Fillets (Small)	or Batter	size, skin out and dry.	350	3
Oysters	Breading	Use Oyster liquor in batter		
•	or Batter	or breading	350	5
Clams	Batter	•	350	1
Scallops	Breading		350	4
Shrimp	Batter	Some prefer soaking 1/2 hour		
		in cold seasoned milk	350	3
Smelts	Breading	Cut spinal cord several	350	4
		places to prevent curling		
MEATS				
Chicken Fried Steak	Dranding	Cover all connecting membranes		
Chicken Fried Steak	Breading	Sever all connecting membranes		
		at one inch intervals to prevent curling.	360	3-4
Cutlets	Breading	curing.	350	3-4
Chops	Breading		340	3-4
Meat Balls	Breading or		040	0 1
Wodt Ballo	rolled in flour		340	4-6
Brains	Breading		340	3-5
 VEGETABLES	-			
	Pottor or orumbo	Pro cook in colted water	250	2
Asparagus Cauliflower	Batter or crumbs Batter or crumbs	Pre-cook in salted water Pre-cook and separate flowers	350 350	3 3
Egg Plant	Crumb Breading	Peel, cut cross-wise into 1/4"	330	3
Lyg i lant	Ording Dreading	slices	350	3
Onions	Light batter	Slice thin, soak in milk for		-
	v	two hours	350	3
FRITTERS				
Fruit /hananaa ninaanalaa		Composition fruit inica	250	2.5
Fruit (bananas, pineapples, apricots, berries)		Serve with fruit juice sauce	350	3-5
Corn	Batter	Serve with syrup or jelly	350	3-5
Vegetable (peas, green beans)	Battor	Serve with tomato cheese sauce	350	5-8
-				
MISCELLANEOUS				
Croquettes	Breading		360	3
Chinese Noodles	3		375	1-2
French Toast			375	1
DOUGHNUTS				
20001111010				
Calca		_	375	1-1/2 - 2
Cake		6	375	1-1/2 - 2

Visit our Website at: www.star-mfg.com Email: service@star-mfg.com For Fax-On-Demand Literature: (800) 807-9814 THOROUGHLY INSPECT YOUR UNIT ON ARRIVAL

This unit has been tested for proper operation before leaving our plant to insure delivery of your unit in perfect condition. However, there are instances in which the unit may be damaged in transit. In the event you discover any type of damage to your product upon receipt, you must immediately contact the transportation company who delivered the item to you and initiate your claim with same. If this procedure is not followed, it may affect the warranty status of the unit.

LIMITED EQUIPMENT WARRANTY

All workmanship and material in Star products have a one (1) year limited warranty on parts & labor in the United States and Canada. Such warranty is limited to the original purchaser only and shall be effective from the date the equipment is placed in service. Star's obligation under this warranty is limited to the repair of defects without charge, by the factory authorized service agency or one of its sub-agencies. Models that are considered portable (see below) should be taken to the closest Star service agency, transportation prepaid.

- > Star will not assume any responsibility for loss of revenue.
- > On all shipments outside the United States and Canada, see International Warranty.
- * The warranty period for the JetStar series six (6) ounce popcorn machines is two (2) years.
- * The warranty period for the Chrome-Max Griddles is five (5) years on the griddle surface. See detailed warranty provided with unit.
- * The warranty period for Teflon/Dura-Tec coatings is one year under normal use and reasonable care. This warranty does not apply if damage occurs to Teflon/Dura-Tec coatings from improper cleaning, maintenance, use of metallic utensils, or abrasive cleaners. This warranty does not apply to the "non-stick" properties of such materials.
- > This warranty does not apply to "Special Products" but to regular catalog items only. Star's warranty on "Special Products" is six (6) months on parts and ninety (90) days on labor.
- > This warranty does not apply to any item that is disassembled or tampered with for any purpose other than repair by a Star Authorized Service Center or the Service Center's sub-agency.
- > This warranty does not apply if damage occurs from improper installation, misuse, wrong voltage, wrong gas or operated contrary to the Installation and Operating instructions.
- > This warranty is not valid on Conveyor Ovens unless a "start-up/check-out" has been performed by a Factory Authorized Technician.

PARTS WARRANTY

Parts that are sold to repair out of warranty equipment are warranted for ninety (90) days. The part only is warranted. Labor to replace the part is chargeable to the customer.

SERVICES NOT COVERED BY WARRANTY

- 1. Travel time and mileage rendered beyond the 50 mile radius limit
- 2. Mileage and travel time on portable equipment (see below)
- 3. Labor to replace such items that can be replaced easily during a daily cleaning routine, ie; removable kettles on fryers, knobs, grease drawers on griddles, etc.
- 4. Installation of equipment
- 5. Damages due to improper installation
- 6. Damages from abuse or misuse
- 7. Operated contrary to the Operating and Installation Instructions
- 8. Cleaning of equipment
- 9. Seasoning of griddle plates

- 10. Voltage conversions
- 11. Gas conversions
- 12. Pilot light adjustment
- 13. Miscellaneous adjustments
- 14. Thermostat calibration and by-pass adjustment
- 15. Resetting of circuit breakers or safety controls
- 16. Replacement of bulbs
- 17. Replacement of fuses
- Repair of damage created during transit, delivery, & installation OR created by acts of God

PORTABLE EQUIPMENT

Star will not honor service bills that include travel time and mileage charges for servicing any products considered "Portable" including items listed below. These products should be taken to the Service Agency for repair:

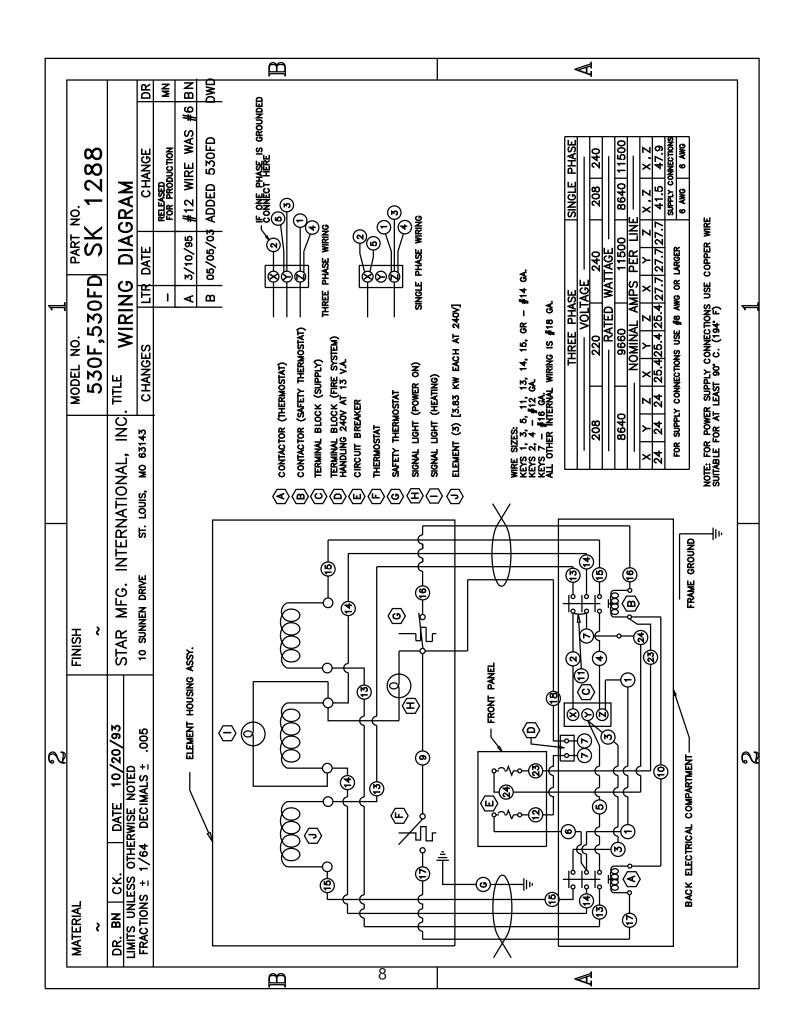
- * The Model 510F Fryer.
- * The Model 526TO Toaster Oven.
- * The Model J4R, 4 oz. Popcorn Machine.
- * The Model CFS Series Food Steamer.
- * The Model 526WO Warming Oven.
- * The Model 518CM & 526CM Cheese Melter.
- * The Model 12MC & 15MC & 18MCP Hot Food Merchandisers.
- * The Model 12NCPW & 15NCPW Nacho Chip/Popcorn Warmer.
- * All Hot Dog Equipment except Roller Grills & Drawer Bun Warmers.
- * All Nacho Cheese Warmers except Model 11WLA Series Nacho Cheese Warmer.
- * All Condiment Dispensers except the Model CSD, HPD, & SPD Series Dispenser.
- * All Specialty Food Warmers except Model 130R, 500, 11RW Series, and 11WSA Series.

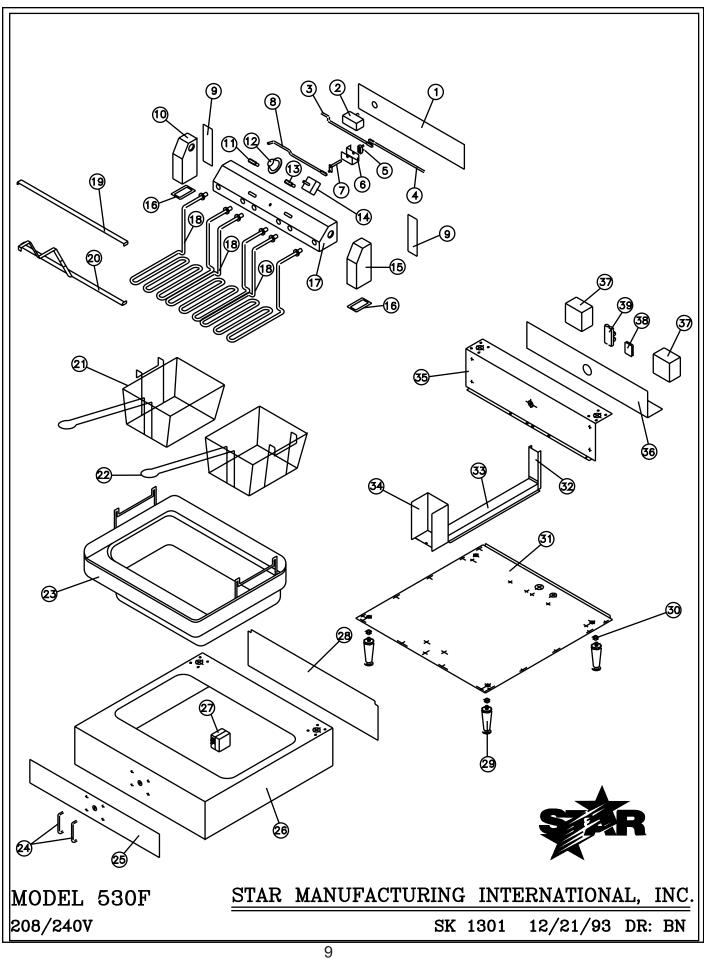
- ALL:
- * Pop-Up Toasters
- * Butter Dispensers
- * Pretzel Merchandisers
- * Pastry Display Cabinets
- * Nacho Chip Merchandisers
- * Accessories of any kind
- * Sneeze Guards * Pizza Ovens
- * Pizza Ovens
- * Heat Lamps
- * Hot Cups
- * Pumps

The foregoing warranty is in lieu of any and all other warranties expressed or implied and constitutes the entire warranty.

FOR ASSISTANCE

Should you need any assistance regarding the Operation or Maintenance of any Star equipment; write, phone, fax or email our Service Department. In all correspondence mention the Model number and the Serial number of your unit, and the voltage or type of gas you are using.





MODEL 530F 30 Pound Deep Fat Fryer

Key	Part	Number Per	
Number	Number	Unit	Description
1	E1-Y7820	1	COVER-ELEMENT HOUSING
2	2T-Y1668	1	THERMOSTAT, SAFETY
3	2A-Y7817	1	ROD, LOCKING - LT.
4	2A-Y7816	1	ROD, LOCKING - RT.
5	E1-530056	1	LINK ASSEMBLY
6	E1-Y7819	1 1	BRACKET
7	E1-530055	1 1	CRANK ASSEMBLY
8	2A-Y7818	1 1	RELEASE ROD - LOCKING
9	E1-Y7814	2	COVER
10	E1-530054	1 1	SUPPORT HOUSING - LT.
11	E1-116313	1 1	SIGNAL LIGHT ASSEMBLY (HEATING)
12	2R-Z1298	1 1	KNOB, THERMOSTAT
13	E1-116314	1 1	SIGNAL LIGHT ASSEMBLY (POWER ON)
14	2T-Z7208	1 1	THERMOSTAT, ROBERTSHAW-K
15	E1-530053	1 1	SUPPORT HOUSING - RT
16	2I-Y7815	2	GASKET
17	E1-530052	1	ELEMENT HOUSING ASSEMBLY
18	2N-Y8416	3	ELEMENT, 3840 W - 240V
19	E1-Y1641	1 1	CLAMP, ELEMENT-UPPER
20	E1-116320	1 1	ELEMENT HANDLE ASSEMBLY
21	2B-Y8847	1 1	BASKET-LEFT
22	2B-Y8846	1 1	BASKET-RIGHT
23	E1-116316	1 1	KETTLE ASSEMBLY - COMPLETE
24	2R-8229		KNOB SHIELD
25	E1-Y7798	1 1	PANEL-FRONT
26 27	E1-Y7796 2E-Y8493	1 1	BODY-TOP SWITCH-2 POLE, 5 AMP.
28	E1-Y7799		PANEL-REAR
29	2R-Y5092	4	BLACK PLASTIC LEG
30	2C-Y7565	4	NUT, CAGE 3/8-16
31	E1-Y7797	1 1	BOTTOM
32	E1-Y8928		BOX, OUTLET-REAR
33	E1-Y8927	1 1	WIREWAY
34	E1-Y7801	i	BOX, OUTLET
35	E1-Y7800	1 1	WALL-CONTACTOR
36	E1-Y6241	1 1	CONTACTOR BOARD
37	2E-Y6240	2	CONTACTOR - 3 POLE 208/240V
38	2E-Y1654	1	BLOCK-TERMINAL (FIRE SYSTEM)
39	2E-Y2849	1	BLOCK-TERMINAL (SUPPLY)
	2P-5737	4	Clip-Capillary Clip-Capillary
	E1-7363	2	Bulb Clamp
	<mark>2I-5659</mark>	2	Grommet-Capillary
	2P-Y3406	2	Wire Spacer, Hi-Limit Bulb
	2P-Y3453	2	Wire Spacer, Thermostat Bulb

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.

