

Dutchess Bakers' Machinery



*302 Grand Avenue
Superior, WI 54880*

MODEL 270 (PATENT PENDING)

*FRENCH BREAD/BUN
& BAGEL SLICER*

Ph: 1-800-777-4498 - Fax: 715-394-2406 - e-mail: sales@dutchessbakers.com - www.dutchessbakers.com



INSTRUCTION MANUAL
FOR THE
DUTCHESS MODEL 270
FRENCH BREAD/BUN
& BAGEL SLICER

**Thank you for choosing the
"Made in the USA"
Dutchess Model 270
French Bread/Bun & Bagel Slicer**

Our staff at Dutchess is dedicated to doing everything possible to reassure you that in making the decision to buy an American Made product you have purchased the highest quality, most dependable Bun & Bagel Slicer available anywhere in the world.

For solutions to product quality and results,
just give us a call and our professional
Customer Service staff will be glad to assist you.

For your convenience, please contact us on our
Toll Free Customer Service Hotline:
1-800-777-4498.

Sincerely,
Your Friends at Dutchess

**AMERICAN BUILT QUALITY
~ Since 1886 ~
AFL ~ CIO
"Serving" the Food Service Industry Worldwide**

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Write your units information in the spaces below for future reference.

<h1>Dutchess</h1>			
BAKERS' MACHINERY CO., INC. SUPERIOR, WI			
MODEL	<input type="text"/>		
SERIAL NO.	<input type="text"/>		
AMPS	<input type="text"/>	HP	<input type="text"/>
PH	<input type="text"/>	VOLTS	<input type="text"/>
HZ	<input type="text"/>	RPM	<input type="text"/>

DUTCHESS MODEL 270 FRENCH BREAD/BUN & BAGEL SLICER

Operator Instructions and Safety Information

All employees operating, servicing and cleaning this machine must be properly trained as to its operation and safety features.

Read and understand all instructions and safety practices before attempting operation! Pay particular attention to **Warning** and **Caution** messages indicating personal safety instructions. Failure to comply with safety instructions may result in serious personal injury.

⚠ WARNING: The slicing Blade is sharp and dangerous. Keep hands out of the cutting area. A severe cutting or abrasion injury could result. Do not operate this machine without guards in place.

⚠ WARNING: The slicing Blade is sharp and dangerous. Never attempt to clear a product jam with your hands. A severe cutting or abrasion injury could result. To clear a product jam, turn the machine “OFF”, disconnect the power supply, wait for the Blade to stop rotating, and clear the Chute using a flat instrument.

NOTE: Product can be removed easier by increasing the Blade cutting height by turning the Large Black Knob [3] clockwise. (see Figure 1, page 6)

⚠ WARNING: The Blade on the Model 270 Slicer will coast to a stop after the power is switched to “OFF”. To prevent personal injury or possible damage to the Slicer components, wait for the blade to stop completely before making any adjustments.

IMPORTANT: It is imperative that the Slicer Blade is kept sharp and that the machine is cleaned frequently. Slicing dense products or those with additives such as raisins, nuts, or dried fruit chips may cause premature unit wear or even failure if:

- 1) The Blade is not kept sharp.
- 2) The Slicer is not cleaned frequently.
- 3) The rate at which the product is fed into the Slicer is too great.

IMPORTANT: Safety and instructional labels are easily visible to the operator and are located near any area of potential danger. Replace any decal that becomes damaged or worn.

⚠ WARNING: TURN THE MACHINE OFF AND DISCONNECT THE POWER SUPPLY BEFORE PERFORMING ANY TYPE OF SERVICING, CLEANING, MAINTENANCE OR INSPECTIONS.

The *General Safety Practices* listed on the following pages are recommended precautions and not related to any specific procedures. Operators should understand and apply these safety precautions during all phases of operation and maintenance.

GENERAL SAFETY PRACTICES

You will ensure safe working conditions for yourself and fellow employees by observing the following general safety guidelines. Please take the time to study them carefully and review them periodically.

Treat this equipment with the respect its power and speed demand.

- This machine was designed to run only when all safety devices and guards are in place. It should never be operated if any guards or access panels have been removed.
- Warnings displayed on machinery were put there to inform and remind people of unsafe practices. They are not to be altered or removed. Replace torn or worn labels immediately.
- Keep fingers, hands or any part of the body out of the machine and away from moving parts.
- Never bypass limit or other safety switches.
- “Horseplay” around machinery at any time is dangerous and should not be tolerated.
- Never sit or stand on anything that might cause you to fall against the machine.

Dress the part.

- Make sure that nothing you are wearing could get caught in the machinery. This means no loose clothing or apron strings and no jewelry, ties, watch chains, unrestrained long hair, etc. near operating machinery.

Correct operation equals Safe operation.

- BEFORE operating this equipment, read the operating instructions and become thoroughly familiar with the machine and its controls.
- Know how to turn the machine off.
- Use the equipment only for its intended purpose.
- Make sure the electrical power is turned off when the machine is not in use.
- Disconnect the power supply before performing any type of servicing, maintenance, or cleaning.
- If the machine is being serviced, the power source should be LOCKED OUT and the plug disconnected. This will prevent anyone from accidentally turning on power to the machine.
- Anything with moving parts requires periodic maintenance. Failure to practice good maintenance can lead to unsafe conditions. If you suspect faulty or damaged equipment, remove it from service and have it repaired by authorized personnel.

Provide a safe, clean environment for yourself and others.

- Remove any tools or other foreign objects from the operating zone before starting. Do not lay any items (coffee cup, scraper, knife, etc.) on the equipment or near the operating areas.
- Keep the operating zone free of obstacles that could cause a person to trip or fall toward an operating machine.

Stay alert.

- Any machine with moving parts and electrical components can be potentially dangerous, no matter how many safety features it has. It is essential that you make every effort to stay alert and think clearly around heavy machinery. Anyone fatigued, emotionally upset or under the influence of drugs or alcohol is primed for an accident.
- Be attentive to indicator lights and warnings displayed on the machine and know how to respond.
- Know where your **FIRST AID SAFETY STATION** is located in case of an emergency.

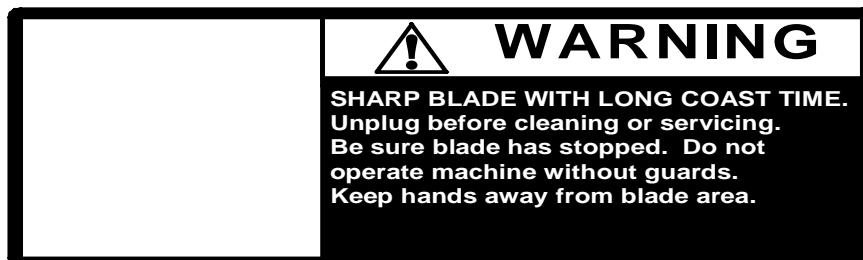
Safety Labels

The Safety Label shown below must always be on your machine. An explanation of each label is included. Inspect the machine periodically to be certain these warning labels are in place. If any label is removed or becomes unreadable, replace it immediately. Order replacement labels from Dutchess Bakers' Machinery Co., using the part numbers shown.

Definitions

- ⚠ **DANGER** An immediate hazard with a possibility of severe personal injury or death if instructions, including recommended precautions, are not followed.
- ⚠ **WARNING** Hazards or unsafe practices which could result in severe personal injury or death if instructions, including recommended precautions, are not followed.
- ⚠ **CAUTION** Possible hazards or unsafe practices which could result in minor or moderate injury or damage to product or property if instructions, including recommended precautions, are not followed.

SAFETY LABEL used on Machine



Rotating cutters are SHARP and DANGEROUS in both the idle and running modes.
KEEP HANDS OUT OF THE CUTTING AREA. A SEVERE INJURY COULD RESULT.

All guards should remain on the machine for the safety of the operators.
DO NOT operate machine without guards.

ALWAYS lockout main power disconnect before attempting to clean, service, perform maintenance or repair. Accidental start-up could result in a serious injury.

Safety and instructional decals, as applied by the manufacturer, are easily visible to the operator and are located near any area of potential danger. Inspect the machine periodically to be certain all warning labels are in place. In the interest of operator safety, replace any decal that is damaged or lost.

UNCRATING INSTRUCTIONS

FOR THE DUTCHESS MODEL 270 FRENCH BREAD/BUN & BAGEL SLICER

⚠ CAUTION: KEEP THE CARTON UPRIGHT AT ALL TIMES

1. Remove the metal staples and remove the cardboard covering from the skid.
2. Unbolt the machine from the skid. Bolts are accessed from the bottom of the skid to the machines base.
3. Lift Slicer off the skid and place it on the location where it will be used - on a counter, sturdy table or other suitable flat surface.
4. Remove the instruction booklet from the Chute.
5. Make sure the switch is in the "OFF" position.
6. Make sure the chute is clear of obstructions.
7. Plug the cord into the proper voltage outlet.

NOTE:

Do not lift or carry the Model 270 French Bread/Bun & Bagel Slicer by the infeed and discharge ends of the Chute.

Lifting or carrying the machine in such a manner can cause damage to the Chute.

Lift by holding and supporting the base frame only.

INTRODUCTION

Many hours of engineering design and performance testing have gone into your Dutchess Model 270 French Bread/Bun & Bagel Slicer. With proper care and maintenance this machine will give you efficient performance and convenient operation throughout its long life.

Safety and reliability are engineered into all Dutchess equipment. We urge machinery operators to study the safety section of this manual and to learn how to operate and maintain the equipment correctly.

This manual has been made for your convenience and instruction. Keep this book on file and always include Model Number and Serial Number of the machine when ordering parts.

Read and understand all instructions and safety practices before attempting operation! Pay particular attention to **Warning** and **Caution** messages indicating personal safety instructions. Failure to comply with safety instructions may result in personal injury.

ELECTRICAL CONNECTION

Electrical specifications for your machine are printed on the Serial Number tag which is located near the electrical power cord point of exit on the machine. Be sure to check your plant voltage with the voltage specified on the machine.

(Refer to page 9 for additional electrical information)

A properly grounded receptacle is required for safe operation regardless of the voltage requirements.

CUSTOMER SERVICE

If you encounter a problem with your Dutchess Model 270 French Bread/Bun & Bagel Slicer, refer to the Cleaning & Maintenance, or the Troubleshooting sections of this manual. If you cannot quickly resume normal operation, contact Dutchess Customer Service (715) 394-2387.

You must have Model and Serial Number of unit Before Calling!

WARNING:

TURN THE MACHINE **OFF** AND **DISCONNECT THE POWER SUPPLY** BEFORE PERFORMING ANY TYPE OF SERVICING, CLEANING, MAINTENANCE OR INSPECTIONS.

WARNING:

The Blade on the Model 270 Slicer will coast to a stop after the power is switched off. To prevent personal injury or possible damage to the Slicer components, **wait for the Blade to stop completely before making any adjustments.**

ADJUSTMENT INSTRUCTIONS

Refer to Figure 1, Page 6 for adjustment points. After turning machine off and disconnecting the power, make adjustments for desired product as follows:

- To adjust for **height of product**, turn **Small Black Knob [1]** up or down to raise or lower the **Input Flap** adjustment and increase or decrease the height of the **Flap**.
Note: For small product requiring "gravity" feed, adjust the **Flap** high enough to allow free flow of product down **Chute** without making direct contact with the **Flap**.
- To adjust for **discharge rate of product**, raise or lower the **Output Flap**, by turning the **Small Black Knob [6]** up or down depending on desired results.
- To adjust for the **width of product** slide the **Hinge Guide [2]** to desired width using the inscribed markings to set an equal width at the upper and lower ends of **Chute**. The width setting must allow the product to pass through the machine freely.
- To adjust for **thickness of cut**, turn **Large Black Knob [3]** clockwise to lower (thicker cut) or counterclockwise to raise (thinner cut) the bottom of the **Chute** from the **Blade**.
- To adjust for **depth of the cut**, turn **Large Black Knob [4]** to desired depth (less for a hinge on buns; more for complete cut).
Note: For a complete through cut, the tip of the **Blade** must go into the rectangular opening in the **Hinge Guide [2]**.
- To adjust for **Chute angle**, loosen both **Large Black Knobs [5]** and raise or lower **Base** by lifting to desired angle, and retighten both **Large Black Knobs**. (*Be sure to support Base while making this adjustment. The machines Base will automatically lower when Large Black Knobs are loosened.*)
Note: A steeper angle is required for smaller product such as Buns and Bagels to allow for better "gravity" feed. A lesser angle will allow for French Bread to easily exit the **Chute** onto the work bench.

NOTE: Adjustments should be liberal to allow for irregular baking uniformity.

OPERATING INSTRUCTIONS

Turn the power switch on. Place a bun in the top of the Chute and let it slide. The sliced bun will exit at the bottom of the Chute. Make bun and cutting adjustments as necessary following the instructions on pgs. 6 & 8.

CLEANING AND PREVENTATIVE MAINTENANCE

⚠ WARNING:

TURN THE MACHINE OFF AND DISCONNECT THE POWER SUPPLY BEFORE PERFORMING ANY TYPE OF SERVICING, CLEANING, MAINTENANCE OR INSPECTIONS.

The Blade on the Model 270 Slicer will coast to a stop after the power is switched off. To prevent personal injury or possible damage to the Slicer components, **wait for the Blade to stop completely before cleaning or making any adjustments.**

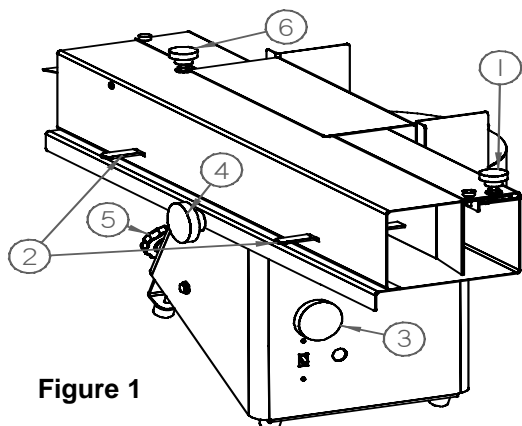


Figure 1

Note:

Do not lift the Model 270 Slicer by the Input or Discharge ends of the Chute as damage could occur. Lift by supporting the Base Frame only.

GENERAL CLEANING:

The manufacturer recommends frequent cleaning, especially the removal of crumbs from around the Blade. (Refer to instructions on Pages 8 - 9 to access the Blade area.)

Manufacturer recommends cleaning the slicing Blade and the Blade area with a damp cloth. Dry Blade and Blade area thoroughly. **See Page 8-9 for additional cleaning instructions.**

IMPORTANT:

Cutting products such as bagels that leave a sticky residue or products with additives such as raisins or dried fruit chips requires more frequent and thorough cleaning. The Blade should be scrubbed with a nylon brush.

⚠ CAUTION:

Do not spray the unit with water; damage to the electrical components will occur.

PREVENTATIVE MAINTENANCE

The motor in the Model 270 French Bread/Bun & Bagel Slicer has sealed bearings. No lubrication is required.

For optimal performance, the Slicer Blade should be re-sharpened after a period of use.

Dutchess offers a sharpening service. Please allow two (2) weeks for service.

We recommend keeping a spare Blade available at all times.

For Blade Sharpening Quotation, Call Dutchess Customer Service at: 1-800-777-4498.

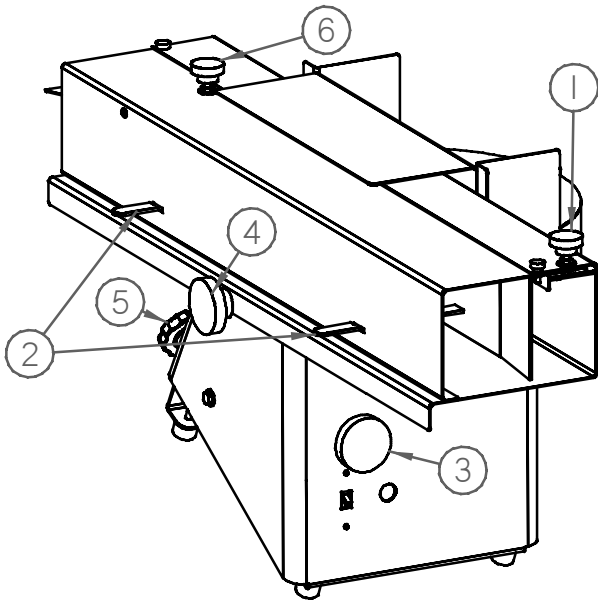


Figure 2

⚠ WARNING:

TURN THE MACHINE OFF AND DISCONNECT THE POWER SUPPLY BEFORE PERFORMING ANY TYPE OF SERVICING, CLEANING, MAINTENANCE OR INSPECTIONS.

⚠ WARNING:

The Blade on the Model 270 Slicer will coast to a stop after the power is switched off. To prevent personal injury or possible damage to the Slicer components, **wait for the Blade to stop completely before making any adjustments.**

For BLADE SHARPENING, Ship POSTAGE PREPAID to:

**Dutchess Bakers' Machinery Company,
302 Grand Avenue, Superior, WI 54880**

Chute Cleaning:

For daily cleaning of the Chute, loosen the set screw holding the Knob [Pg. 7, Figure 2, Item 4] using the 3/32" hex wrench provided with the machine. Remove the Knob by pulling outward. Next, grasp the Chute on both ends and slowly slide towards you until it is free of the Base and bring to a bench or sink. **Note:** The Chute can now be cleaned without any interference from the Blade. Use a mild soap and a non abrasive washcloth. (See pages 7 & 9 for additional cleaning instructions). To reinstall the Chute, slide the Chute on the Lift Assembly making sure the hole with the bushing is aligned with the Chute Adjustment Rod, replace Black Knob and tighten set screw.

WARNING:

TURN THE MACHINE OFF AND DISCONNECT THE POWER SUPPLY BEFORE PERFORMING ANY TYPE OF SERVICING, CLEANING, MAINTENANCE OR INSPECTIONS.

The Blade on the Model 270 Slicer will coast to a stop after the power is switched off. To prevent personal injury or possible damage to the Slicer components, **wait for the Blade to stop completely before cleaning or making any adjustments.**

TIPS FOR SLICING BUNS (with Maximum Chute Angle)

(See Figure 2, Page 7 for diagram).

Step One:

Adjust Chute opening for the product width using the Hinge Guide [Item 2] so the product has sufficient clearance to slide freely through the Chute. It is recommended you set the Chute width approximately 1/4" - 3/8" inch wider than the product to be sliced. **Note:** It may be necessary to test this by holding the product into the Chute opening, with the POWER TURNED OFF, to visually identify the proper amount of clearance is set.

Step Two:

Adjust for the Depth of Cut (Hinged Cut or Complete through Cut) by turning the Knob [Item 4] Clockwise to increase the Depth for a complete through cut, and counter-clockwise for a hinged cut.

Note: You may need to visually view into the Chute from the Input end of the Chute to determine the desired position of the Blade to the Hinge Guide.

- For a Complete Through Cut, the Blade must extend into the opening in the Hinge Guide approximately 1/4 inch or more.
- For a Hinged Cut, the Blade should be kept away from the Hinge Guide approximately 1/4 - 1/2 inch to achieve your desired results.

Step Three:

Adjust for Thickness of Cut (from the bottom of product) by turning the Knob [Item 3] clockwise for a thicker cut, and counterclockwise for a thinner cut.

Step Four:

Adjust the Output Flap by turning the Black Knob [Item 6] clockwise to speed up the discharge rate of the product, or turn the Knob counterclockwise to slow the discharge rate of product.

TIPS FOR SLICING FRENCH BREAD (with Minimum Chute Angle)

Follow steps 1-4 above and add the following:

Step Five:

Adjust the Input Flap downward by turning the Black Knob [Item 1] clockwise to increase the space between the Input Flap and the bottom of the Chute, and counterclockwise to lessen the space. **Note:** The closer the Input Flap is to the bottom of the Chute, the more effective it is at holding the loaf down which creates a more uniform cut.

Step Six:

Reduce the Angle of the Chute by loosening the two Black Knobs [Item 5] and lifting the discharge end of the Chute which will allow the adjustable legs to lower. While holding/supporting the Chute end up, retighten the two Black Knobs. **Note: Be sure the power is turned OFF and the Blade has stopped before making any adjustments.**

CHANGING THE BLADE or CLEANING BLADE AREA

Refer to Page 9, Figure 3 for parts locations.

TOOLS REQUIRED: Standard Screw Driver

Step 1. Remove the **Top Guard [8]** by removing the three (3) **Small Black Knobs [7]**.

Step 2. Remove the three (3) screws securing the **Blade** and *carefully* remove the **Blade**.

Step 3. Replace the clean (or new) **Blade** and tighten the three (3) screws to secure the **Blade**.
IMPORTANT: Make sure that the points on the teeth are pointing in the opposite direction of the rotation of the **Blade**, which is clockwise when looking at the shaft end of the **Motor**.

Step 4. Replace the **Top Guard [8]**, replace and tighten the three (3) **Small Black Knobs [7]**.

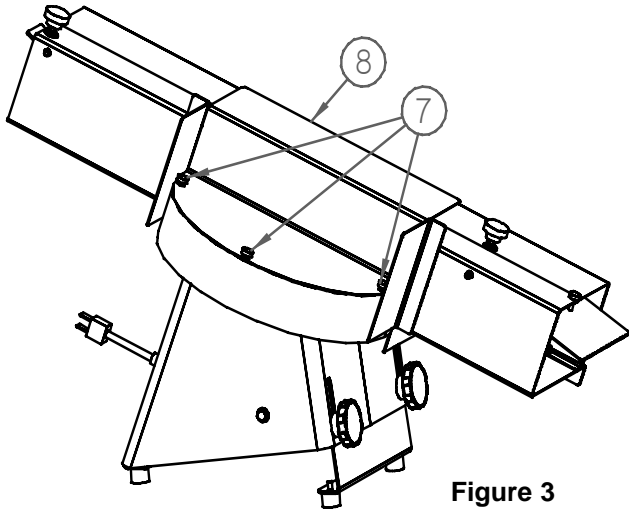


Figure 3

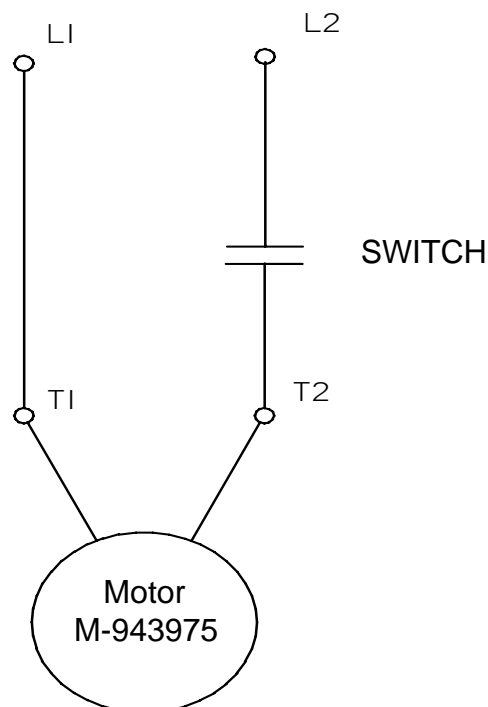
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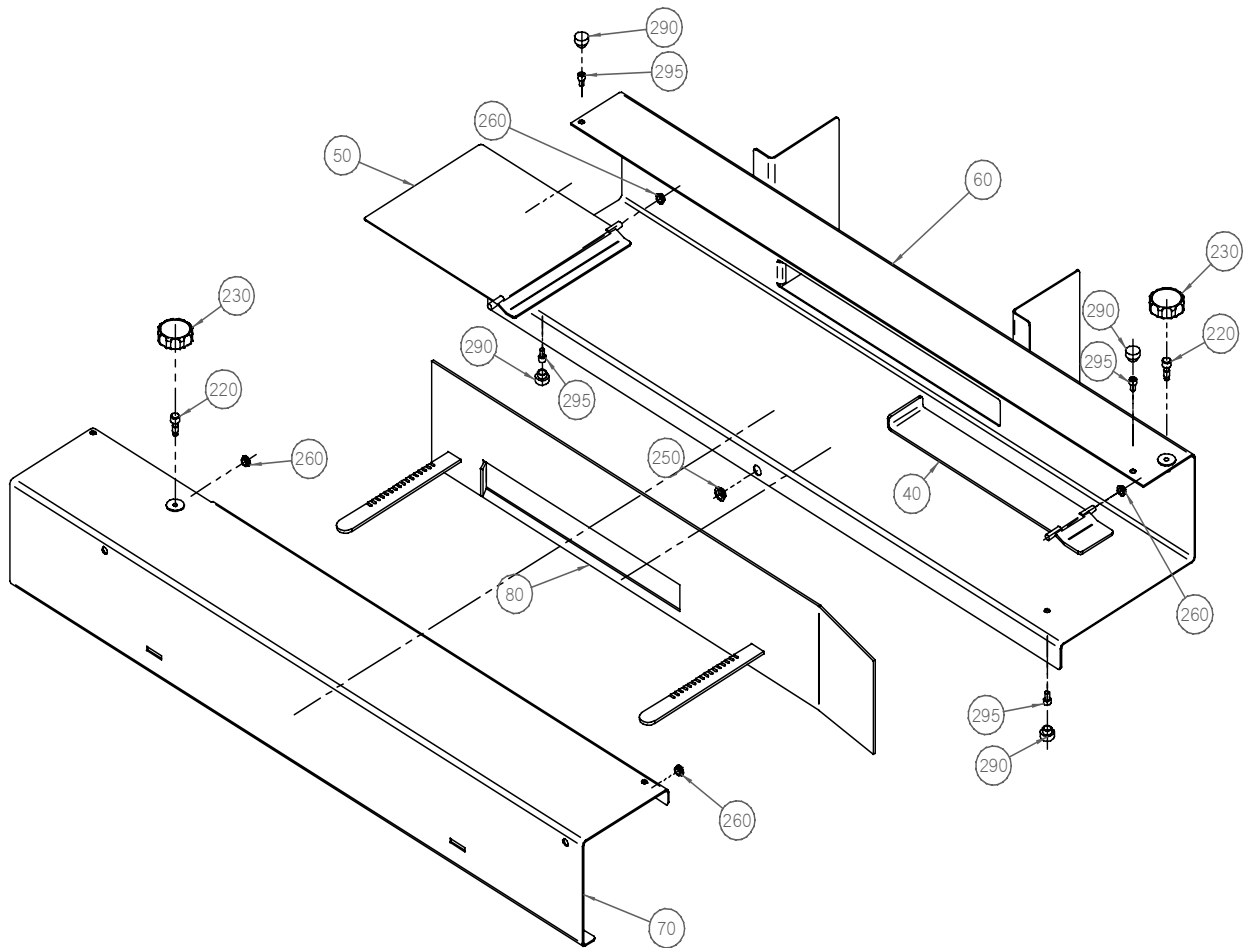
⚠ WARNING:

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ELECTRICAL SCHEMATIC - MODEL 270



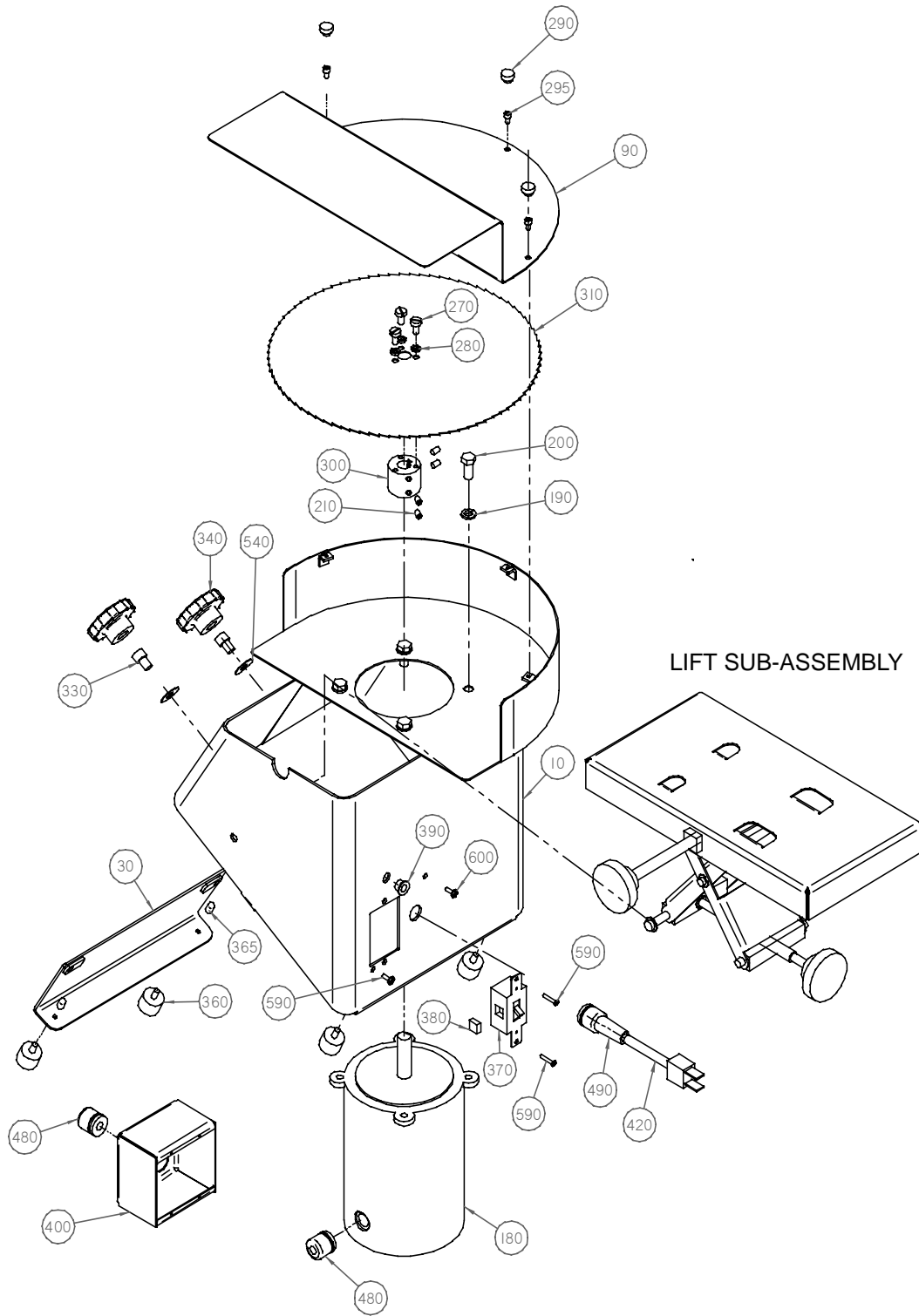
MODEL 270 CHUTE ASSEMBLY



Model 270 Parts Description

<u>Item</u>	<u>Qty.</u>	<u>Description</u>	<u>Part Number</u>
40	1	Input Flap	B4-073-0030
50	1	Output Flap	B4-073-0027
60	1	Lower Chute	C4-073-0029
70	1	Hinge Guard	C4-073-0028
80	1	Hinge Guide	C4-073-0031
220	2	Adjustment Screw	A4-074-0009
230	2	Thumb Screw Knob	P4-939-0020
250	1	Bushing	P4-909-0044
260	4	Bushing	P4-909-0043
290	7	Thumb Screw Knob	P4-939-0014
295	7	Socket Hd Cap Screw	12-E-0302

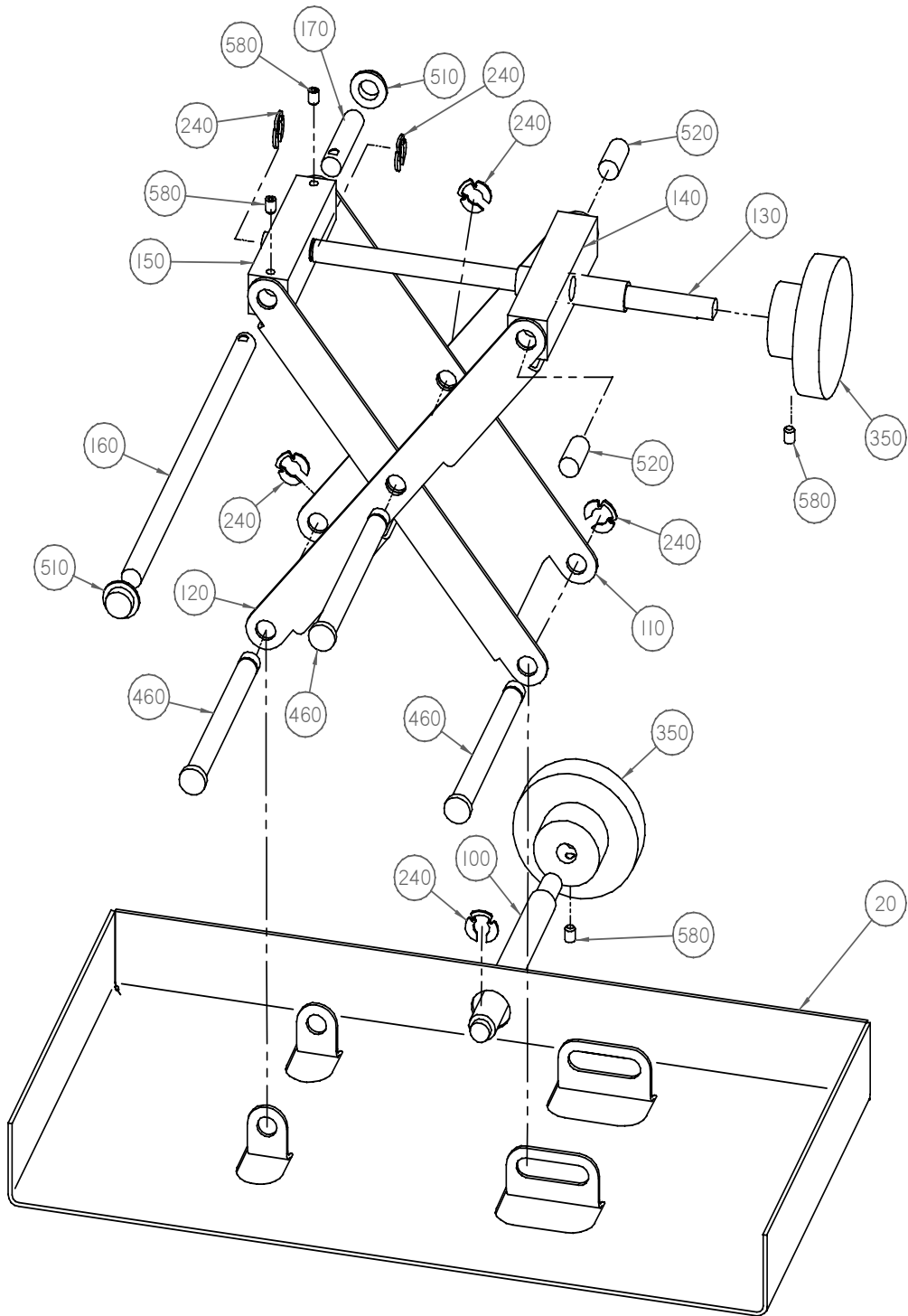
MODEL 270 BASE ASSEMBLY



Model 270 Parts Description

<u>Item</u>	<u>Qty.</u>	<u>Description</u>	<u>Part Number</u>
10	1	Base	C4-030-0040
30	1	Foot, Adjustable	B4-073-0033
90	1	Top Guard	B4-073-0032
180	1	Motor, 1/2hp, 1725 rpm, 115v	M-943975
190	4	Spring Lock Washer	63-E-06
200	4	Hex Hd. Cap Screw	11-E-0607
210	4	Skt. Set Screw	29-E-0403
270	3	Round Hd. Slted. Mach. Screw	23-E-0404
280	3	Lock Washer	63-E-04
300	1	Blade Adapter	M-A26083
310	1	Blade, 12.5"	A4-037-0002
330	2	Socket Hd Cap Screw	12-E-0604
340	2	Thumb Screw Knob	P4-939-0013
360	4	Bumpers, Foot	M-950164
365	4	Vinyl Cap	P4-955-0013
370	1	Manual Motor Starter	P4-921-0148
380	1	Starter Heater	P4-921-0149
390	1	Bushing	P4-909-0005
400	1	Masonry Box	P4-921-0078
420	1	Cord Set	M93175805
480	2	Snap in Cord Grip, Straight	P4-921-0150
490	1	Snap in Cord Grip, Flex	P4-921-0151
540	4	Washer, Nylon	M-9513-3005
590	2	Flat Hd. Ph. Mach Screw	22-E-0106
600	2	Truss Hd. Ph. Mach. Screw	P4-927-0035

MODEL 270 LIFT SUB-ASSEMBLY



Model 270 Parts Description

<u>Item</u>	<u>Qty.</u>	<u>Description</u>	<u>Part Number</u>
20	1	Lift Base	B4-030-0042
100	1	Chute Adjustment Rod	A4-064-0017
110	1	Lift Bracket	B4-073-0034
120	1	Lift Bracket - 2	B4-073-0035
130	1	Lift Rod	A4-064-0019
140	1	Hinge Nut for Lift	A4-019-0010
150	1	Hinge Bushing for Lift	A4-019-0011
160	1	Rod - 3/8" x 8 1/8"	A4-064-0015
170	1	Rod - 3/8" x 1 5/8"	A4-064-0020
240	6	Heavy Duty E-Style Retaining Ring	P4-935-0067
350	2	Fluted Knob	P4-939-0017
460	3	Clevis Pin	P4-927-0103
510	2	Push Cap Nut	P4-935-0071
520	2	Dowel Pin	78-E-1212
580	4	Skt. Set Screw	29-Q-5302

TROUBLESHOOTING

The purpose of this guide is to trace safety and nuisance shutdowns, identify probable causes, and correct such problems quickly.

⚠ WARNING:

TURN THE MACHINE OFF AND DISCONNECT THE POWER SUPPLY BEFORE PERFORMING ANY TYPE OF SERVICING, CLEANING, MAINTENANCE, OR INSPECTIONS.

<u>Symptom</u>	<u>Probable Cause</u>	<u>Corrective Action</u>
Motor does not start:	Power interruption	Check power supply Check ON/OFF Switch Turn machine off for five minutes. Press switch down to reset, then up to turn machine back on.
	Excessive crumbs in Blade area	Clean crumbs from Blade area. (See pages 4 and 5)
Slicer stops running:	Overload--from product jam	Turn the machine "OFF," disconnect power supply, clear the Chute using a flat instrument.
	Overload—from dull Blade	Sharpen or replace Blade.
Product isn't cut clean:	Product too warm	Cool product to room temperature before slicing.
	Hinge Guide and Input Flap set too close	Adjust Hinge guide and Input Flap so product has clean passage. (See pages 6 & 8)
	Dull Blade	Sharpen or replace Blade.

IMPORTANT: Due to the wide variety of finished product densities and additives (i.e. raisins, onions, dried fruit chips, etc.), it is imperative that the machine be cleaned frequently and the Slicer Blade be sharpened periodically. Slicing dense products or those with additives may cause premature unit wear or even failure if:

- 1) The Blade is not kept sharp
- 2) The Slicer is not frequently cleaned
- 3) The rate at which the product is fed into the slicer is too great.

