

MULLIGAN ASSOCIATES, INC.
286 Barbados Drive, Jupiter, FL 33458
(800) 627-2886 / (561) 277-2466 Fax
www.juicernet.com



GET A BIGGER CUT OUT OF THE PROFITS

Increase sales and profits

- Fresh-cut pineapple sales are dramatically enhanced when "ready to eat" pineapples are displayed
- The Fresh Cutter quickly prepares fresh-cut pineapple with eye appeal
- Conveniently increases tonnage and gross margin in your produce department

Merchandise for Profits

- Cut pineapple adds a fresh look to your department and makes displays "come alive"
- Outstanding display materials add excitement to pineapple and tropical fruit merchandising
- The Fresh Cutter is a quick and easy approach to merchandising for profits

Gain Customer Appreciation

- Customers take home a "ready to eat" pineapple - perfectly peeled and cored by the fresh cutter
- Eliminates the inconvenience of preparing pineapple at home
- Customers are confident they are buying a quality product - eliminates guess work.

S-961 PINEAPPLE CORER **DAILY MAINTENANCE**

Blade Assembly

1. Remove wing nuts and washers.
2. Remove top ring (PD-003)
3. Remove blade supporting ring (PD-004) and outer blade (PD-006). Hold outer blade and remove from blade supporting ring.
4. All parts indicated above should be placed in utility sink for cleaning. We recommend cleaning with hot water and citrus soap.

*****BE CAREFUL!!!! ALL BLADE EDGES ARE VERY SHARP!!!!*****

5. The cutter may now be taken to a utility sink or outside and thoroughly hosed down.
6. Remove any cores that may have gotten stuck in the center coring blade (PD-011).
7. Carefully lay cutter on its side to clean the underside of the press holder (PD-001) and spiral working cylinder (PD-008).
8. Wipe off excess water with paper toweling and re-assemble cutter.

CAUTION: ENGAGE THE PINS AT THE BOTTOM OF THE OUTER BLADE SECURELY INTO THE COUPLING (PD-007) BEFORE INSTALLING THE BLADE SUPPORTING RING AND THE TOP RING.

S-961 PINEAPPLE CORER **MONTHLY MAINTENANCE**

Blade Assembly

1. Use the Hook Shaped Wrench (PT-023) to remove Locking Nut (PC-12) at the bottom of the Spiral Working Cylinder. DO THIS **BEFORE** REMOVING BLADE ASSEMBLY.
2. Repeat regular "Daily Maintenance".
3. Clean inside of Spiral Working Cylinder that receives Center Coring Blade.
4. Reassemble as usual.
5. After cutter is thoroughly dried, use a vegetable based spray lubricant to lubricate the following parts:
 - a. Elevating Shaft (PC-34) – two bushings
 - b. Handle Mechanism Horizontal Bar (PC-14) at the front of the cutter – two bushings
 - c. Quarter Cam Gear (PC-16)
6. Wipe off excess oil.

CAUTION: ENGAGE THE PINS AT THE BOTTOM OF THE OUTER BLADE SECURELY INTO THE COUPLING (PD-007) **BEFORE INSTALLING THE BLADE SUPPORTING RING AND THE TOP RING.**

BLADE VARIATION

- Two different sizes of blades are available:
 - One is for large-size fruit (101cm/m)
 - One for similar-size fruit (96cm/m)
- When placing an order please indicate which size you would prefer.
- This machine has been improved to make changing the blade easier.
- After use, remove the remaining core by pushing it up from the bottom with the core removing stick and wash the blade thoroughly with water.

TOOLS AND ACCESSORIES

- Spanner and screwdriver, 1 unit
- Core Removing Stick
- Waste Box, 1 unit

IMPORTANT

In order to maintain the smooth operation of this apparatus, EVERY DAY AFTER USE, EQUIPMENT SHOULD BE WASHED AND RINSED BY SUFFICIENT WATER, especially Center Core Blade, Outer Blade, Peel Cutting Blade, Press-Holder, and Elevating Shaft.

In addition, once a week for 20-30 minutes, remove and soak in “warm” water: the Top Ring, Blade Supporting Ring, Peel Cutting Blade and Outer Blade.

DO NOT USE VERY HOT WATER AS IT MAY CAUSE DAMAGE TO NYLON COMPONENTS

Get A Bigger Cut Of The Profits

- Fresh-Cut Pineapple

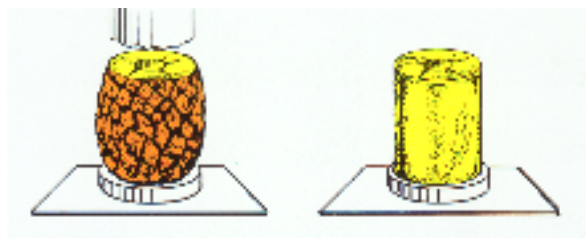


Guide For Handling, Peeling, & Displaying

1. Always handle pineapples with care. NEVER DROP! Severe bruising and damaged fruit will result if you do.
2. If you will not be displaying the fruit right away, keep it properly refrigerated at between 45 and 50 degrees Fahrenheit.
3. You should rotate your pineapple display daily. Unpeeled fruit that you remove from the display should be the ones cored and peeled for presentation the following day. This will help you upgrade your pineapple display and give it a “FRESH” look.
4. To prepare the fruit for the cutting machine, first twist off the crown and then slice off both the top and bottom of the pineapple, taking care to make both cuts as parallel as possible.

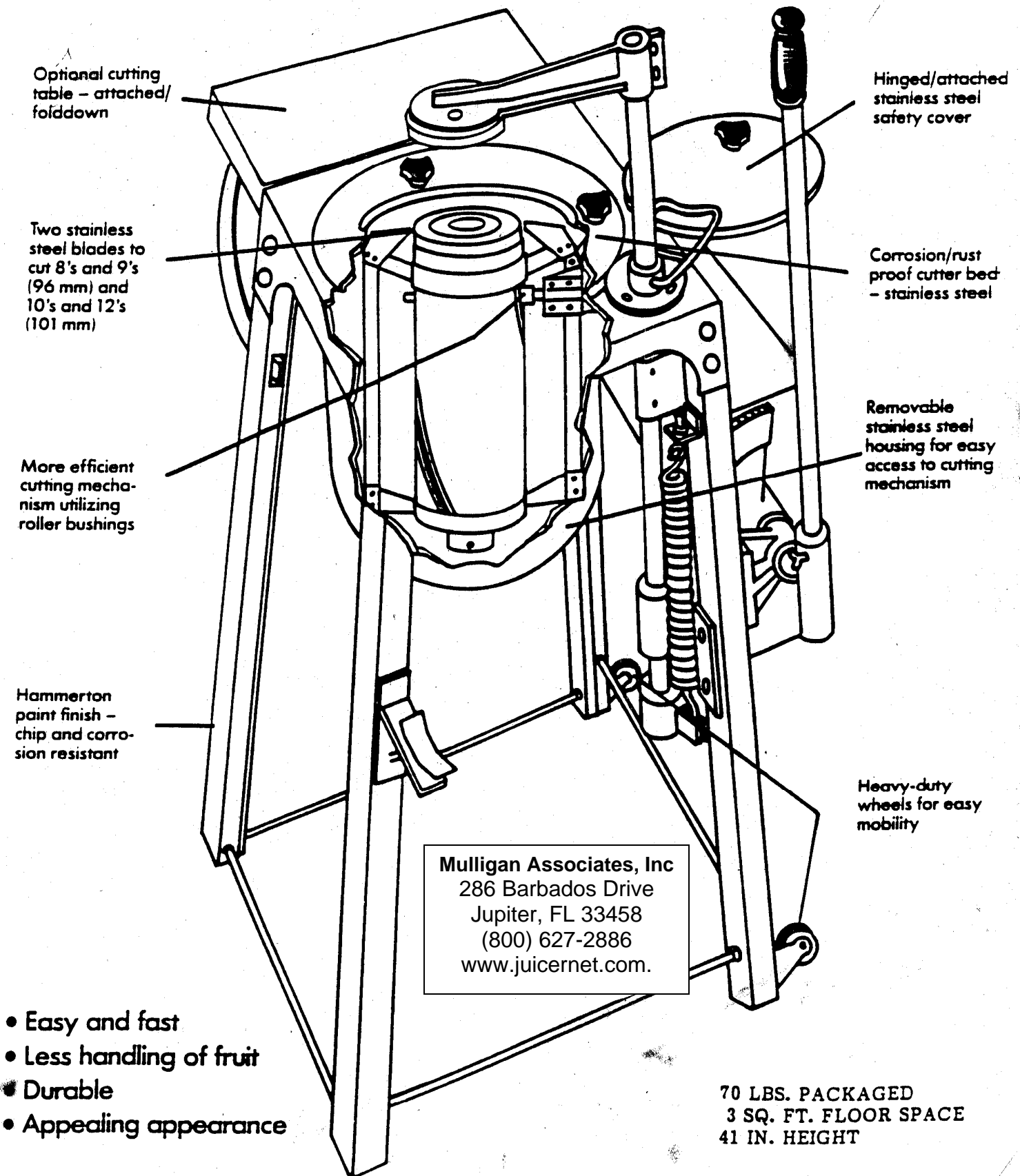


5. Center the prepared fruit on the cutter for best results in removing all of the shell and the core.



6. Once the pineapple has been peeled and cored, slip it into an attractive bag, making sure to secure the open end tightly to prevent juice leakage. Refrigerate if the fruit will not be placed on display right away.
7. ALWAYS SELL THE FIRST CUT FRUIT FIRST (FIFO: FIRST IN, FIRST OUT)

NEW MODEL S-961A



Optional cutting table - attached/ folddown

Hinged/attached stainless steel safety cover

Two stainless steel blades to cut 8's and 9's (96 mm) and 10's and 12's (101 mm)

Corrosion/rust proof cutter bed - stainless steel

More efficient cutting mechanism utilizing roller bushings

Removable stainless steel housing for easy access to cutting mechanism

Hammerton paint finish - chip and corrosion resistant

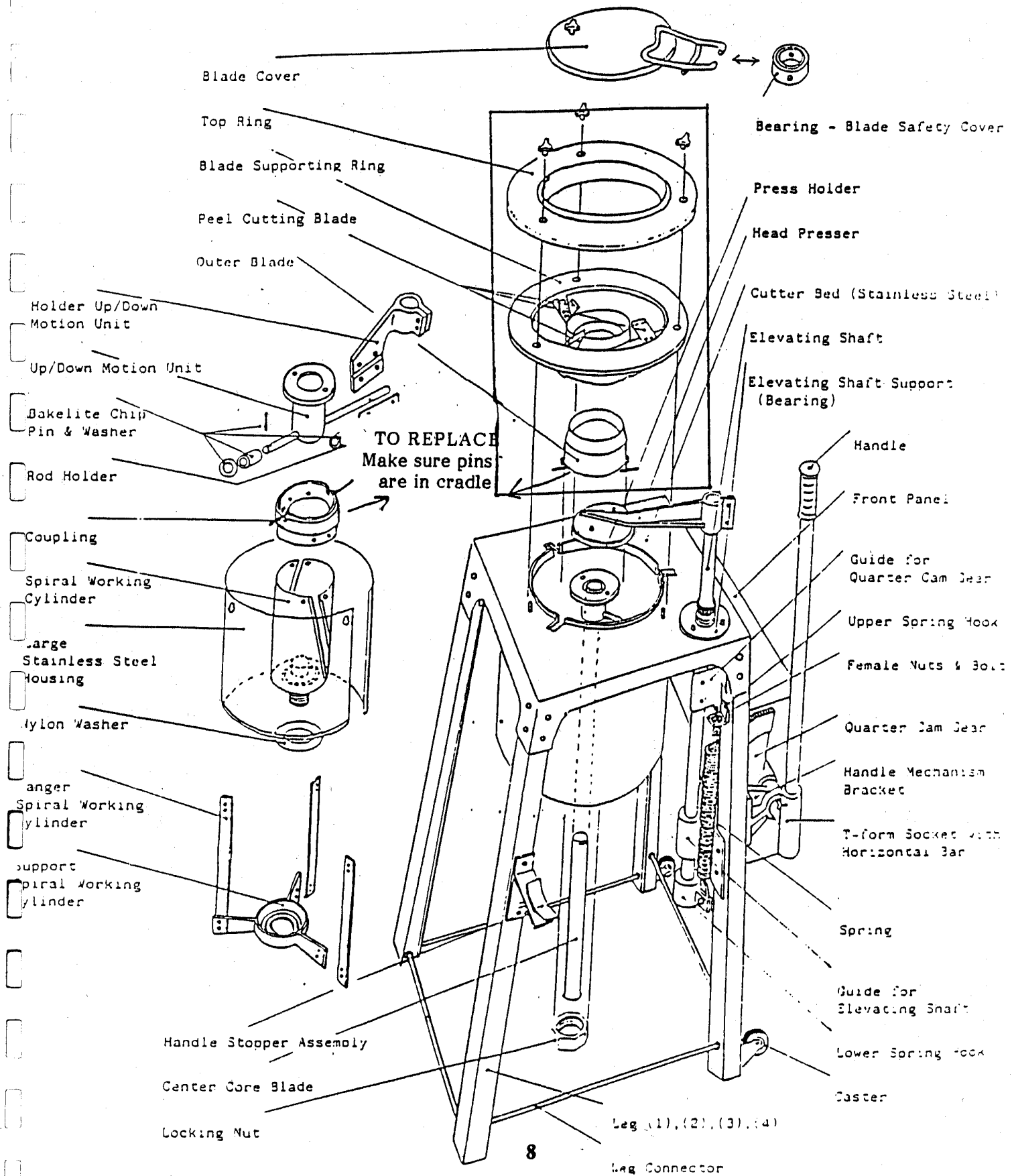
Heavy-duty wheels for easy mobility

Mulligan Associates, Inc
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- Easy and fast
- Less handling of fruit
- Durable
- Appealing appearance

70 LBS. PACKAGED
3 SQ. FT. FLOOR SPACE
41 IN. HEIGHT

PARTS SEPARATION DIAGRAM

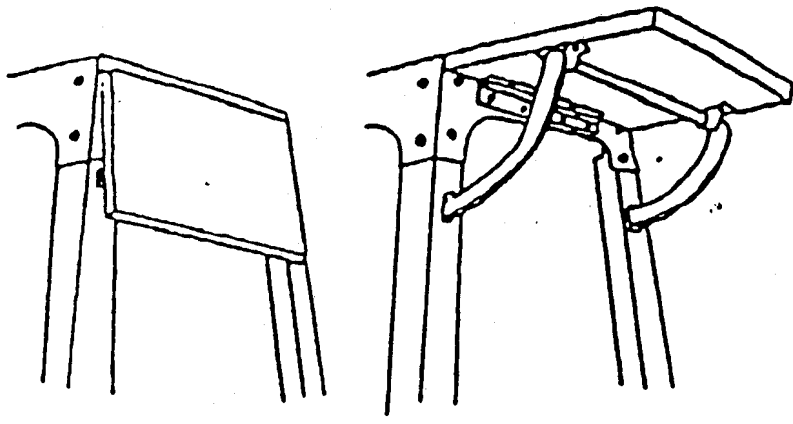


WORKING/CUTTING TABLE

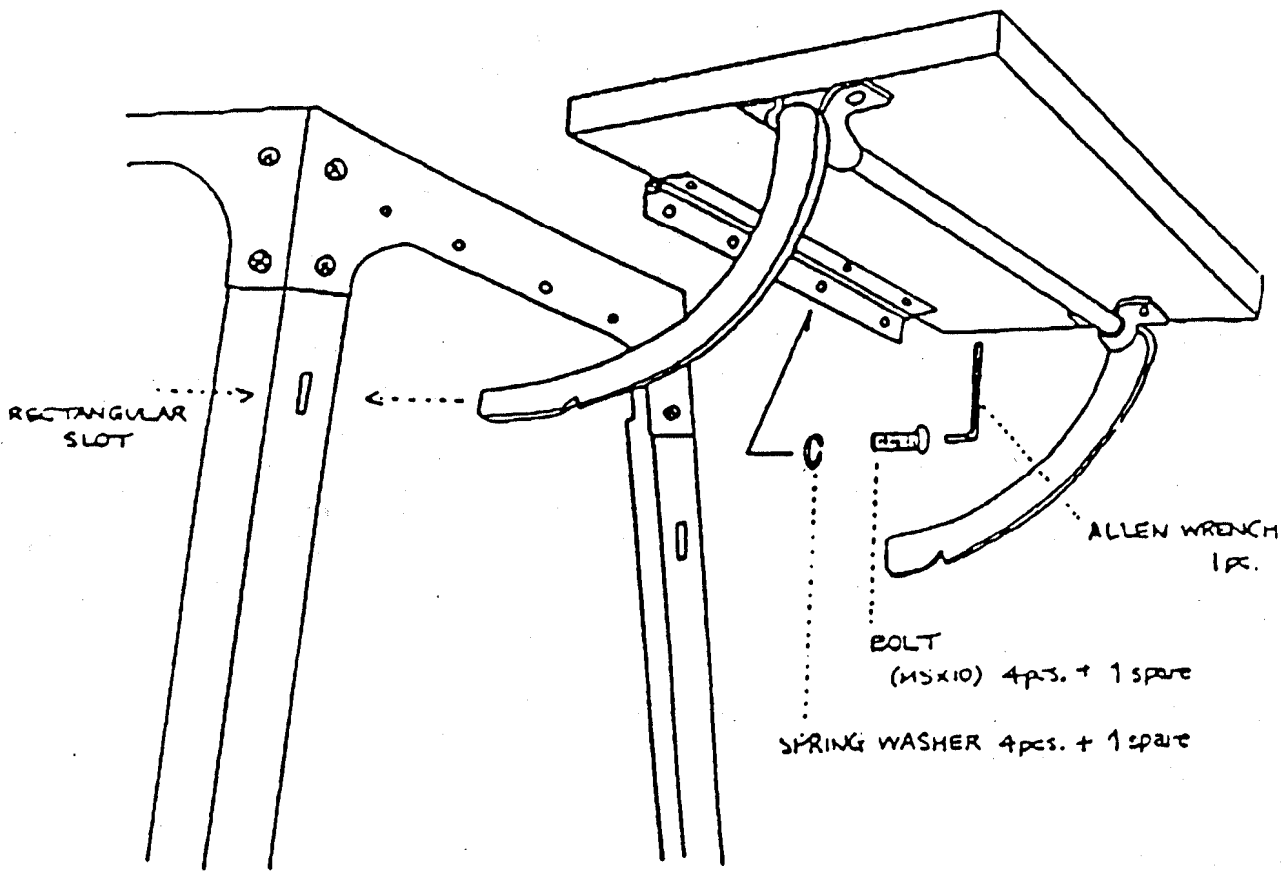
(PA-050)

NEW
STYLE
LARGE
CYLINDER

OLDER
STYLE
SMALL
CYLINDER

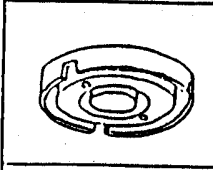

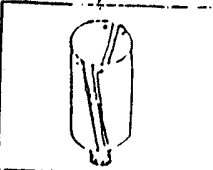
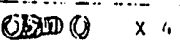
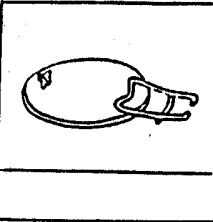
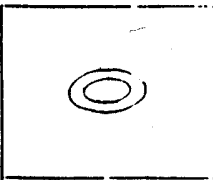
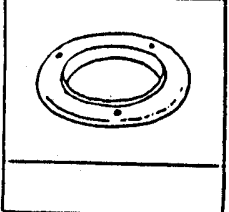
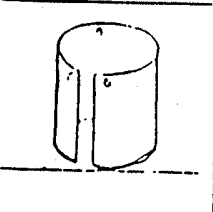
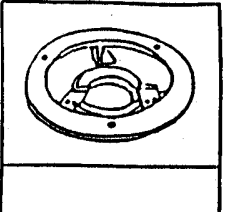
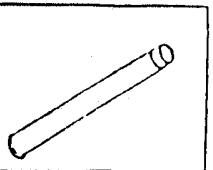
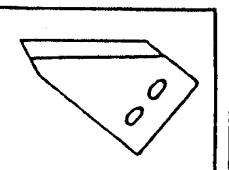
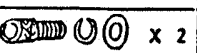
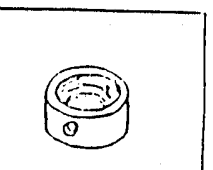
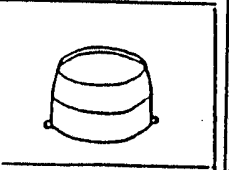
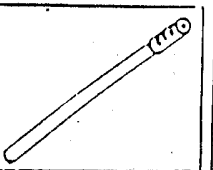
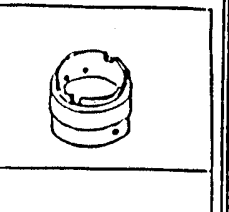
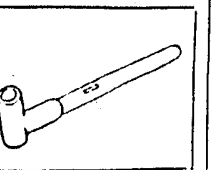
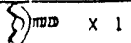


1. INSERT 4 BOLTS WITH WASHERS INTO THE HOLES OF THE TABLE HINGE AND TIGHTEN WITH WRENCH.
2. THE NOTCH OF THE KEEPER SHOULD CATCH THE RECTANGULAR SLOTS OF THE FRAME.

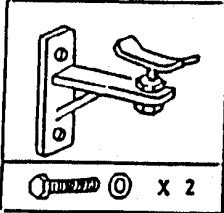
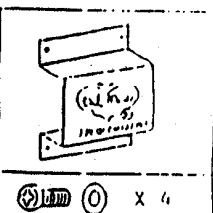
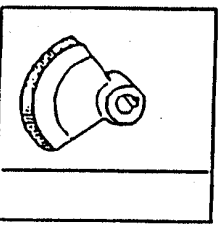
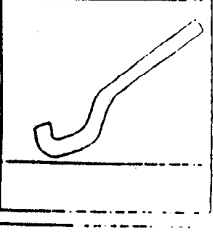
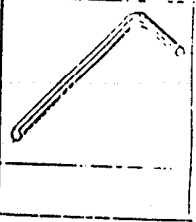
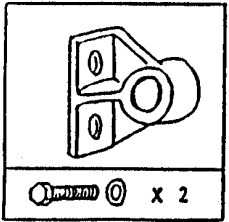

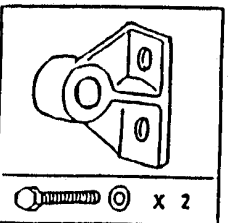
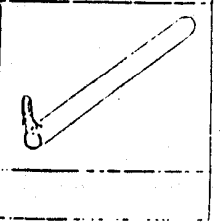
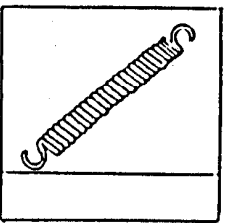
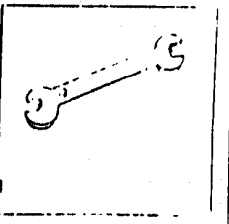
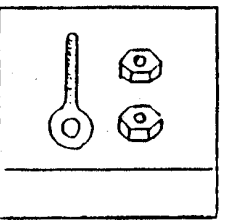
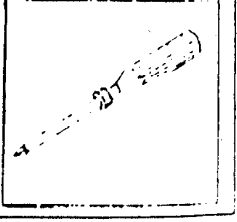


OLD STYLE - SMALL
NEW STYLE - LARGE 4 1/2" O

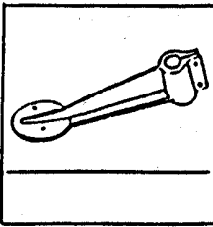
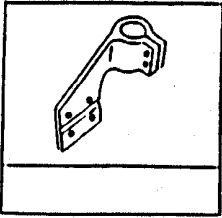
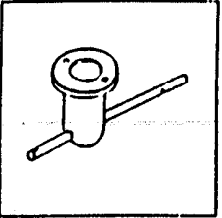
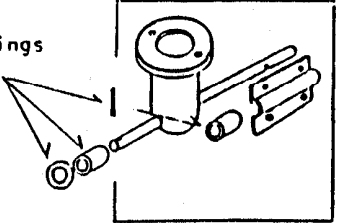
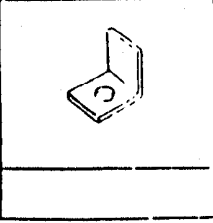
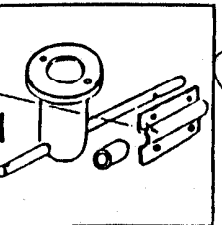
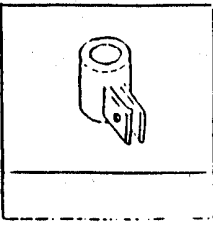
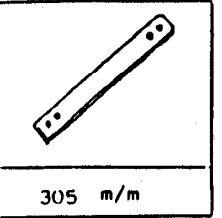
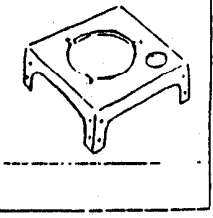
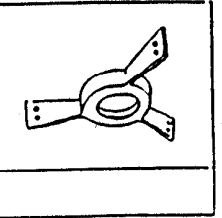
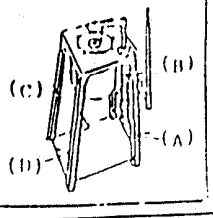
PARTS LISTING

NO.	Description	NO.	Description
PS-011S	Press-Holder • Nylon   x 2	PS-081	Spiral Working Cylinder • Stainless Steel   x 4
PS-021S	Blade Safety Cover • Stainless Steel 	PS-091	Nylon Washer • Nylon  (Color : White)
PD-003	Top Ring • Stainless Steel 	PS-101	Large Stainless Steel Housing Unit • Stainless Steel 
PS-041S	Blade Supporting Ring (Except Blade & Nuts/Bolts) • Cast Metal & PVC Ring 	PD-011	Center Core Blade • Stainless Steel  32 ϕ m/m
PS-051	Peel Cutting Blade • Stainless Steel   x 2	PD-012 PD-012	Locking Nut • Aluminum  50 ϕ m/m
PS-061 PS-061A	Outer Blade • Stainless Steel  101/96 ϕ m/m	PD-013	Handle • Stainless Steel 
PS-071	Coupling • Stainless Steel 	PD-014	T-form Socket welded with Handle Mechanism Horizontal Bar • Iron & Stainless Steel (assembled)   x 1

PARTS LISTING (CONTINUED)

NO.	Description		NO.	Description
PD-015	Handle Stopper • Iron 		PS-221	Front Protective Panel (DM Logo) • Steel Plate Plate 
PD-016	Quarter Cam Gear • Cast Iron 		PT-023	Hook Shaped Wrench • Iron 
	<i>LOOKING AT FRONT OF MACHINE</i>		PT-241	Hexagonal Allen Wrench TO FIT PC #'s A) 3m/m - PC-38 B) 4m/m - PC-011, 051, 081, 310, 46-47 C) 5m/m - PC-301, 321 D) 6m/m - PC-49 
PD-018	Handle Mechanism Bracket (Left) • Aluminum 		PA-025	Waste Box • Polypropylene with Lid (Color: Yellow) 
PD-019	Handle Mechanism Bracket (Right) • Aluminum <i>same side as handle</i> 		PA-026	Core Removing Stick • PVC 
PD-201 PD-020	Spring 		PT-027	Spanner TO FIT PC #'s A) 8m/m - PC-011 10m/m - PC-37 B) 13m/m - PC-15, 18-19, 21, 35, 38, 39 17m/m - PC-44-45 
PD-021	Eye Bolt & Nuts • Stainless Steel 		PT-028	Screw Driver Use for PC-221 & 391 

PARTS LISTING (CONTINUED)

NO.	Description		NO.	Description
PS - 301 <i>FJ-030</i>	Head Presser • Aluminum		PD - 034	Elevating Shaft • Stainless Steel 22 mm/in X 750mm/in
PS - 310	Holder for Up-Down Motion Unit • Aluminum		PD - 035	Guide for Elevating Shaft • Cast Metal
PS - 311	Up-Down Motion Unit • Stainless Steel		PS - 361	Guide for Quarter Cam Gear • Steel
PS - 311 P1	Bakelite Bushings with Pin & Washer 		PD - 037	Upper Spring Hook 
PS - 311 P2	Rod Holder • Stainless Steel 		PD - 038	Lower Spring Hook 
PS - 321	Hanger for Spiral Working Cylinder • Stainless Steel 305 m/m		PS - 391	Cutter Bed • Stainless Steel 
PS - 331	Support for Spiral Working Cylinder • Stainless Steel 		PS - 401 a 411 b 421 c 431 d	Leg (Hammeron Finish) A) PC-401 B) PC-411 C) PC-421 D) PC-431 • Steel 

(CONTINUED)

NO.	Description	NO.	Description
PD - 044 045	Leg Connector A) PC-44 B) PC-45 • Iron		
PD - 046	Castor 40 ϕ _{m/m}		
PD - 048	Bearing		
PD - 049	Support for Elevating Shaft • Cast Metal		
PA 050	Working Table (Extra) • Plypropylène & Steel		

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TROUBLESHOOTING

1. Most problems occur because the cutter is not properly maintained and cleaned.
2. Pineapple juice and fiber when ignored day after day, turn into a very sticky mess and create most of the problems.
3. Proper, routine disassembly (see maintenance schedule) and sanitation prevent buildup of the sticky mess.
4. The majority of problems result from the outer blade never being removed from the blade support ring because they will stick together when not cleaned.
5. The blade jams in the support ring, the coupling does not engage the drive pins on the blade, and instead of turning the blade inside the support ring the coupling turns against the blade (metal to metal).
6. By not being correctly engaged the slack in the mechanism needed for smooth operation is taken up by the jammed components. This means that the spiral working cylinder is also jammed against the support it is supposed to rest on.
7. By jamming all of these items, the extra effort required to turn steel on steel (coupling on blade) is transmitted to the up/down motion unit. The up/down unit is generally the first place that will show excessive wear and stress.

QUICK FIXES

1. Remove top ring.
2. Remove support ring with blade stuck inside.
3. Carefully, but firmly rap the support ring on a flat surface (floor) until the blade is brought to the bottom of the support.
4. Carefully, while holding the blade, rap the support on one of the peel cutting supports on the edge of a table. Rotate and rap until the blade fits loosely and evenly inside the support ring.
5. Thoroughly wash and dry these parts.
6. Use a short, sharp, stiff knife and half round file to remove enough plastic from the inner ring of the blade support ring so that the outer blade fits loosely and evenly inside the support ring.
7. Before re-assembly, insure that the nylon washer is in place between the spiral working cylinder and its support. Absence of this piece will also create major metal to metal friction.
8. If the rods or bushings on the up/down motion unit are badly worn the unit should be replaced.
9. Insure that the leg connectors are straight.
10. Insure that the front protective panel is not hitting the quarter cam gear.
11. Check the elevating shaft for straightness.
12. Insure that the elevating shaft is in a full upward position on the quarter cam gear and that the handle is perpendicular to the floor.
13. Re-assemble the machine and follow the maintenance schedule to prevent further complications.

PARTS AND SERVICE: TOLL FREE (800) 627-2886