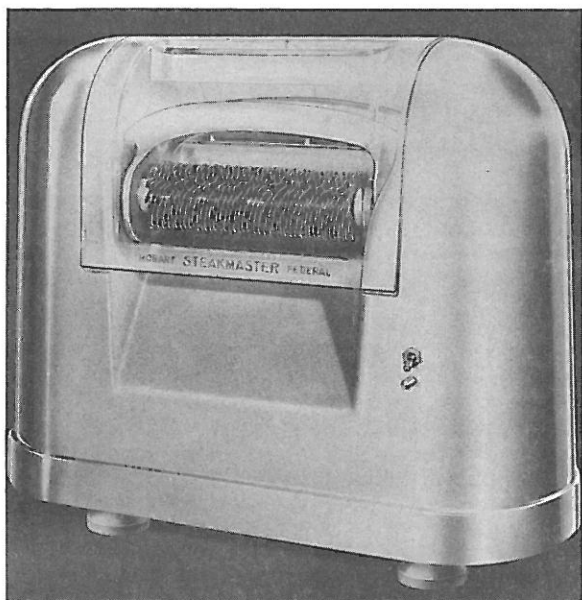


INSTRUCTION MANUAL

. . . with Catalog of Replacement Parts



HOBART

MODEL 401 STEAKMASTER*

(Steakmaster* tenderizers are manufactured by Hobart-Federal Engineering Corp., a Hobart subsidiary.)

Model	Spec.	Description
#401	#401-2	Standard Machine (Without Feed Chute or Safety Switch)
#401-S	#401-4	BSA Machine (Includes Feed Chute and Safety Switch)
#401-S	#401-9	Standard Machine (With Safety Switch, No Feed Chute)
#401	#401-14	Standard Machine (No Knit) (Without Feed Chute or Safety Switch)
#401-S	#401-S-14	BSA Machine (No Knit) (Includes Feed Chute and Safety Switch)

THE HOBART MANUFACTURING COMPANY



The World's Oldest and Largest Manufacturer of Computing Scales
and Food Store, Kitchen, Bakery and Dishwashing Machines

TROY, OHIO, U.S.A.

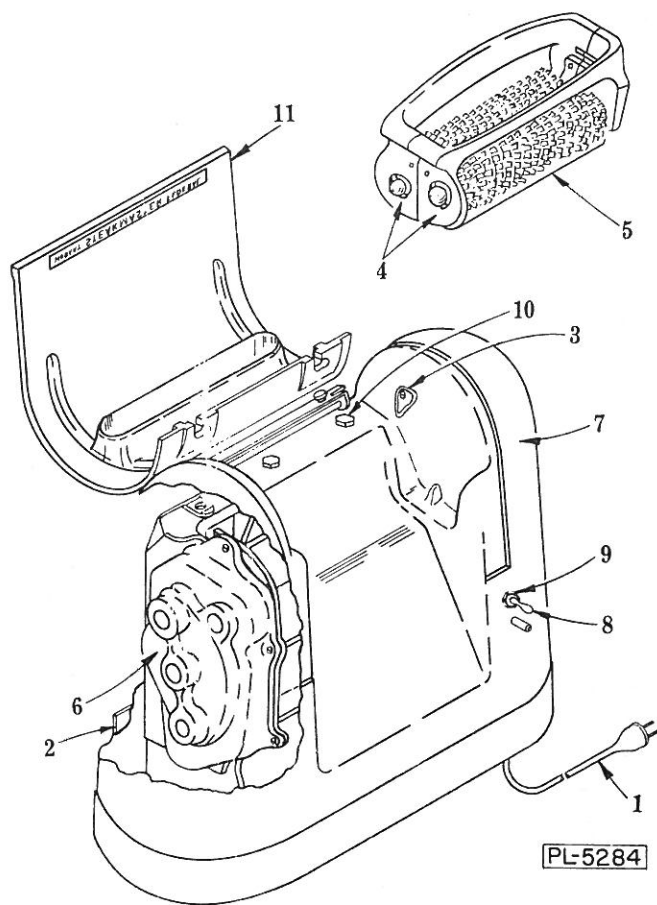


FIG. 1

Instructions for Operation and Care of Model 401 Steakmaster

CONNECTIONS: Each machine is furnished with cord and plug (1, Fig. 1). Before plugging into socket, be sure the line current available is the same as specified on the machine serial plate (2).

OPERATION: Only boneless meats should be used. Various combinations with different kinds of meats may be blended together. To do this, feed the different meats through separately to tenderize them, then feed through together creating a firmly knit steak. Large slices should be under 3/4" thick. Choice or tender cuts of meat should be run through two to four times at different angles. Less tender cuts should be run through from three to six times as desired, to increase tenderness. Pull out excess sinews to save operations and also increase tenderness.

CAUTION: Observe all safety rules with this machine that would apply to any razor-edged tool.

CLEANING & SANITIZING:

A. Materials Required:

- A.1 A small nylon bristled brush.
- A.2 Small plastic two compartment pail.
- A.3 Clean cloths.
- A.4 "Soilax" All Purpose Cleaner.
- A.5 "Mikro-Klene" Iodophor Sanitizer.
- A.6 Plastic Spray Bottle.

B. Procedure (Using "Soilax" and "Mikro-Klene"):

- B.1 Add two ounces of "Soilax" to one gallon of hot water in wash side of two compartment pail.

- B.2 Mix two teaspoons of "Mikro-Klene" in one gallon of cool water in rinse side of pail.
- B.3 Release latch (3, Fig. 1) and lift out the lift-out unit assy.
- B.4 Grasp hanger handle in each hand and swing front and rear hanger assemblies apart.
- B.5 Remove strippers (5, Fig. 1) from roller assemblies.
 - B.5.1 Push stripper in direction of arrow 1 (Fig. 2) until stripper pivot screw (2, Fig. 2) clears hanger. Swing stripper in direction of arrow 3 (Fig. 2). Remove by pulling in direction of arrow 4 (Fig. 2). Remove meat from stripper by hand. Use the nylon brush (or cleaning fork) to loosen meat particles. Use hanger handle to hold roller assembly, thus avoiding contact with sharpened blades.
- B.6 Wash and clean the lift-out parts in a sink. After washing, apply three drops of mineral oil at bearings.
- B.7 Slide opened plastic (or metal) cover to the left to disengage "L" shaped slots from hinge studs.
- B.8 Clean and wash cover in sink. Note: plastic cover to be washed in warm water (not over 140° F.) with mild soap suds.
 - B.8.1 If your cover has the non-removable, disengaging chute, loosen the two hex nuts and raise chute clear of slot so that all surfaces are open for cleaning in sink.
- B.9 Brush wash drop area of tenderizer and all other meat contact surfaces carefully. Wash entire outside surface of unit.
- B.10 Rinsing and sanitizing can be done in one of two ways:
 - (a) Go over all cleaned surfaces with a cloth, soaking wet with "Mikro-Klene" rinse solution.
 - (b) Rinse the cleaned surfaces with fresh water and apply the "Mikro-Klene" sanitizer via plastic spray bottle.
- B.11 Allow all surfaces to drain dry. Replace lift-out unit and plastic (or metal) cover.
- B.12 Rinse nylon brush thoroughly under running water. Next dip nylon brush in "Mikro-Klene" solution and allow to drain dry in covered container or wrapped in a freshly laundered towel.

Cloth used for rinsing should be sent to laundry, or discarded. Wash out pails.

CAUTION: Aluminum parts will discolor if allowed to soak overnight in either the "Soilax" or "Mikro-Klene" solutions.

ROLLER ASSEMBLY: Due to the close relationship between the front and back rollers, any replacement of more than six blades or six spacers or a combination of the two, should NOT be serviced in the field. Always reassemble blades and spacers in their same order as originally assembled.

BLADE SHARPENING: The cutting edges of the blades may be quickly re-sharpened as follows:

1. Remove lift-out unit and disassemble strippers.
2. Place back hanger unit into proper position of machine and hold file between revolving blades until blades are sharp.
3. Remove back hanger unit and place front hanger unit into machine. Sharpen revolving blades as in paragraph 2.

LUBRICATION: This machine is gear driven and has special oil impregnated bronze bearings throughout. The gears, sealed in a cast transmission case (6, Fig. 1), operate in an oil bath. Once a year, have a Hobart service technician check and replenish the oil as required. The motor is oil lubricated with large capacity oil reservoirs, and should be checked annually. To properly lubricate the motor, the outside housing or body (7, Fig. 1), should be removed. To remove the body, unlock and lift out the roller or tenderizer Unit (4). Then, disassemble the switch (8) from the body by removing the outside retaining nut (9). Next, remove the three hex head bolts (10) that retain the body (7). Lift off the body. The motor is then exposed for easy lubrication and inspection. Also see paragraph B.6.

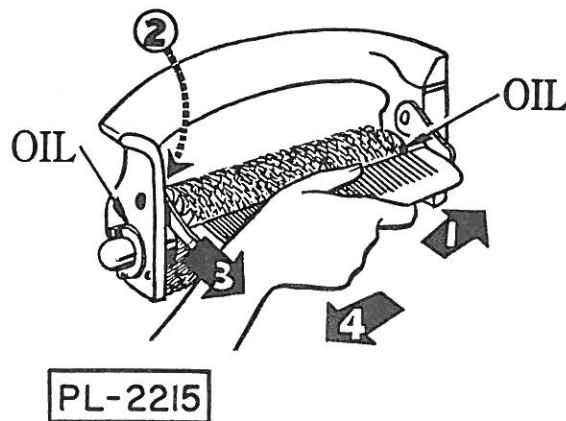
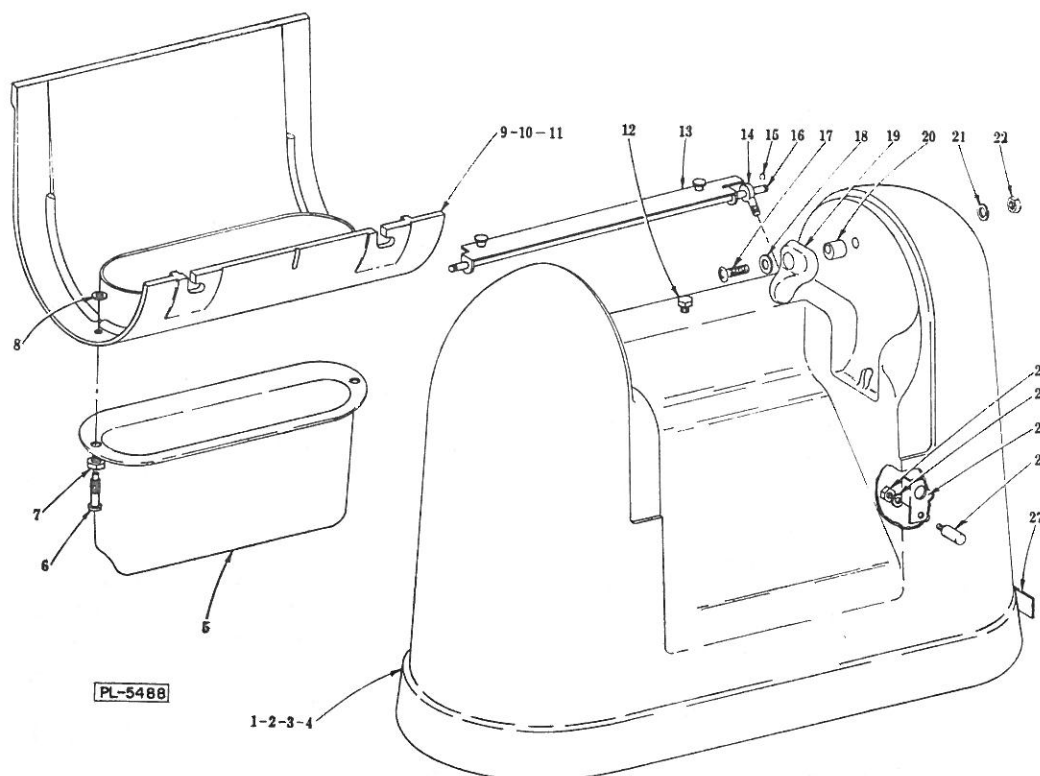
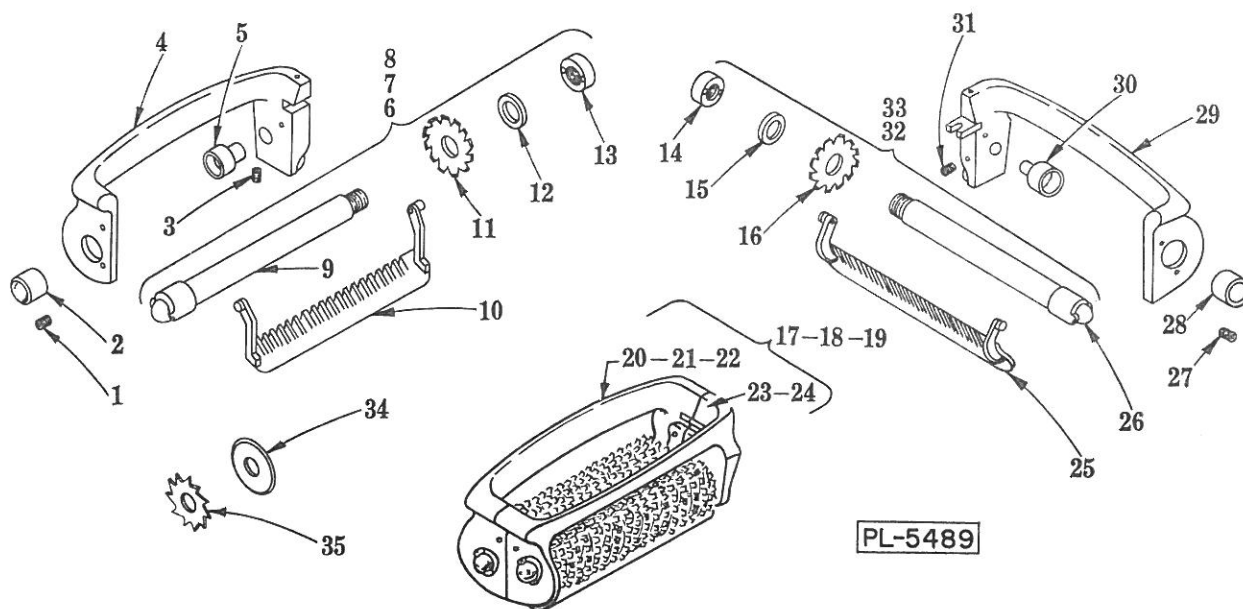


FIG. 2



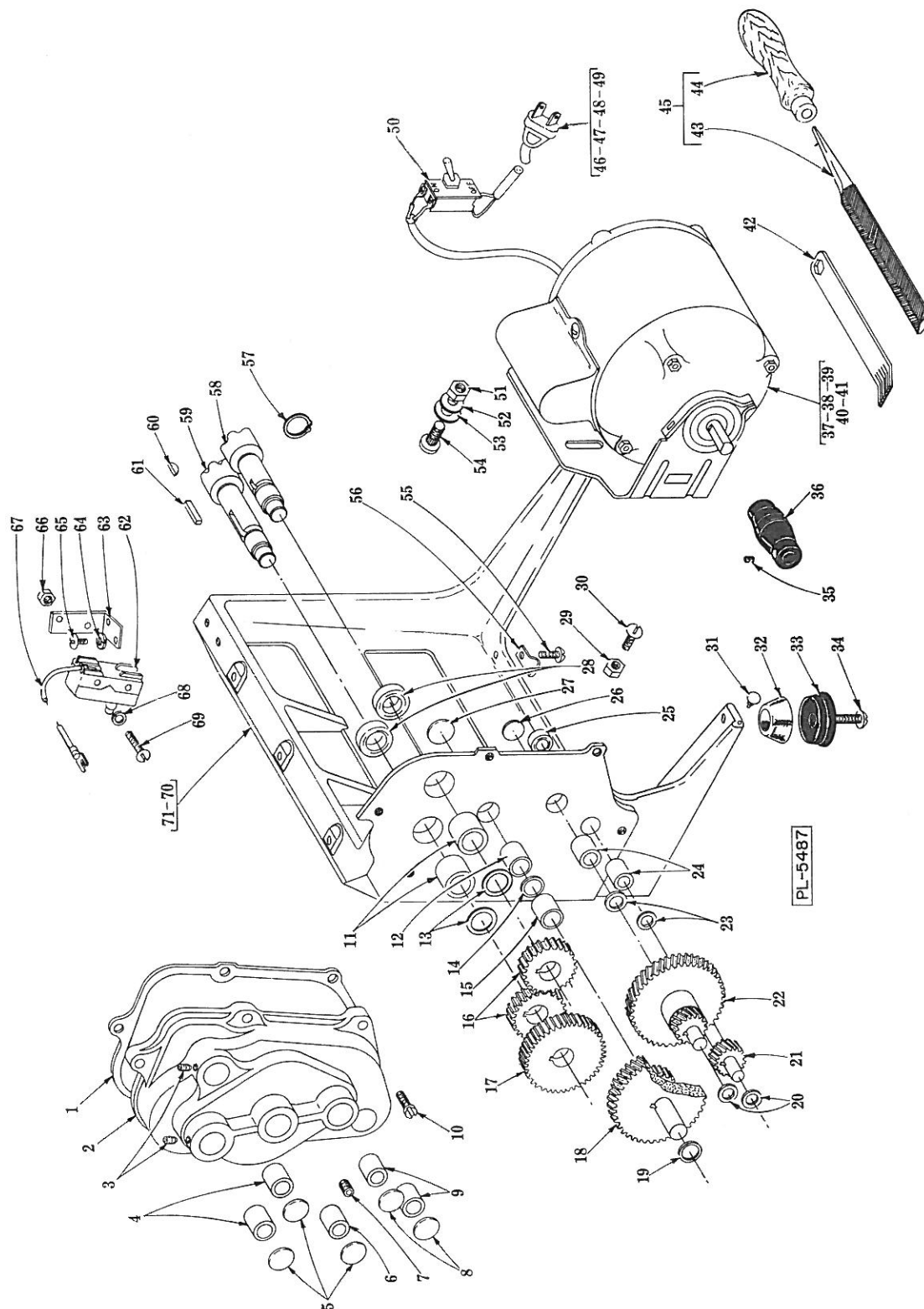
BODY UNIT

ILLUS. PL-5488	PART NO.	NAME OF PART	AMT.
1	737-1	Body (Only) (used with Safety Switch) -----	1
2	748-A-2	Body & B.S.A. Plate Sub-Assy. (used with Safety Switch) (Incls. items #1 & 27) -----	1
3	745-1	Body (Only) (used without Safety Switch) -----	1
4	748-A-1	Body & B.S.A. Plate Sub-Assy. (used without Safety Switch) (Incls. items #3 & 27) -----	1
5	619-2	Feed Chute -----	1
6	668	Stud - Feed Chute -----	2
7	NS-15-1	Full Nut - 1/4"-20 Hex Fin. -----	2
8	WS-19-14	Washer (Plastic Cover Only) -----	2
*9	696	Cover (Only) (Aluminum) -----	1
**10	740	Cover (Only) (Aluminum) -----	1
***11	595	Cover (Only) (Plastic) -----	1
12	SC-41-15	Fin. Bolt - 5/16"-18 x 1-1/4" Hex Hd. -----	3
13	741-A	Hinge Assy. -----	1
14	738	Eyebolt -----	2
15	749	Retaining Ring (.230" I.D.) -----	2
16	739	Rod - Hinge -----	1
17	299	Screw - Hanger Lock -----	1
18	WS-19-2	Washer -----	1
19	414	Lock Hanger -----	1
20	546	Ferrule - Hanger Lock -----	1
21	WL-6-7	Lock Washer - #10 x .062" x .047" -----	1
22	NS-9-25	Mach. Nut - #10-24 Hex -----	1
23	NS-9-25	Mach. Nut - #10-24 Hex -----	1
24	WL-6-7	Lock Washer - #10 x .062" x .047" -----	1
25	286	Lock - Switch -----	1
26	127-1	Guard - Switch -----	1
27	507	Plate - Approval (B.S.A.) -----	1
	697-A	Cover & Chute Assy. (NSF) (Aluminum) (Incls. items #5, 6, 7 & 9) -----	1
	667-A	Cover & Chute Assy. (NSF) (Plastic) (Incls. items #5, 6, 7, 8 & 11) -----	1
	736-A-1	Body Assy. (Incls. items #1, 17, 18, 19, 20, 21, 22, 23, 24, 25 & 26) -----	1
	744-A-1	Body Assy. (Incls. items #3, 17, 18, 19, 20, 21, 22, 23, 24, 25 & 26) -----	1
		* (used with chute)	
		** (used without chute)	
		*** (used with or without chute)	



LIFT-OUT UNIT

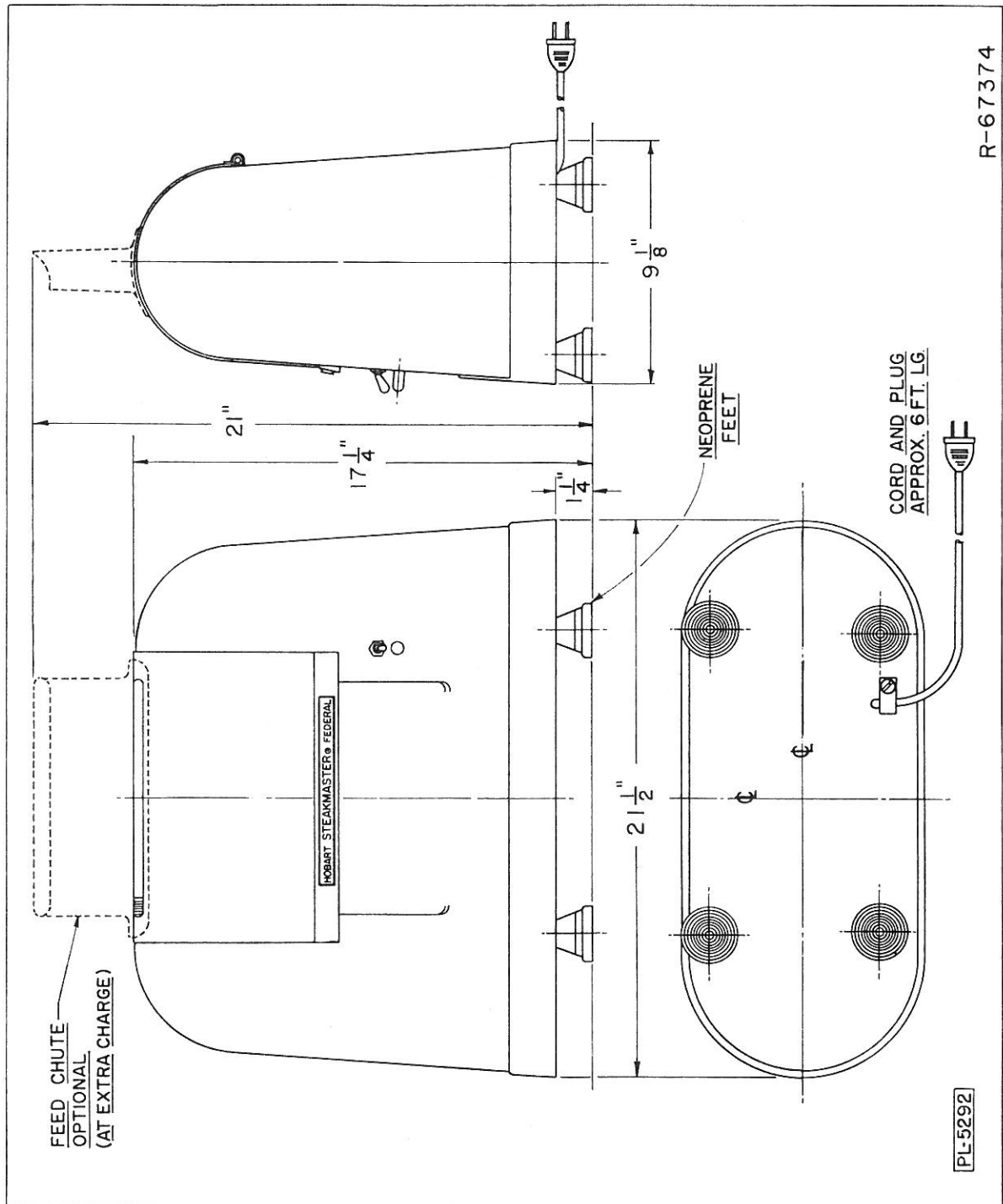
ILLUS. PL-5489	PART NO.	NAME OF PART	AMT.
1	559	Set Screw - Special	1
2	538	Bearing - Left Back	1
3	559	Set Screw - Special	1
4	541-A	Back Hanger Assy.	1
5	535	Bearing - Right	1
6	532-A	Back Roller Assy. (Std.) (Incls. items #9, 11, 12 & 13)	1
7	754-A	Back Roller Assy. (Star Blade) (Incls. items #9, 13, 15 & 35)	1
8	714-A	Back Roller Assy. (No Knit) (Incls. items #9, 11, 12, 13 & 34)	1
9	528-A	Back Blade Shaft Assy.	1
10	538-A	Back Stripper Assy.	1
11	101-1	Blade (Std.)	41
12	574	Spacer	40
13	530	Lock Nut - Back	1
14	531	Lock Nut - Front	1
15	574	Spacer	40
16	101-1	Blade (Std.)	41
17	545-A	Lift-Out Unit (Std.) (Incls. items #20 & 23)	1
18	750-A	Lift-Out Unit (Star Blade) (Incls. items #21 & 24)	1
19	716-A	Lift-Out Unit (No Knit) (Incls. items #22 & 23)	1
20	543-A	Back Hanger Unit (Std.) (Incls. items #1, 2, 3, 4, 5, 6 & 10)	1
21	752-A	Back Hanger Unit (Star Blade) (Incls. items #2, 4, 5, 7, 10, 27 & 31)	1
22	715-A	Back Hanger Unit (No Knit) (Incls. items #1, 2, 3, 4, 5, 8 & 10)	1
23	544-A	Front Hanger Unit (Std.) (Incls. items #25, 27, 28, 29, 30, 31 & 32)	1
24	751-A	Front Hanger Unit (Star Blade) (Incls. items #25, 27, 28, 29, 30, 31 & 33)	1
25	539-A	Front Stripper Assy.	1
26	529-A	Front Blade Shaft Assy.	1
27	559	Set Screw - Special	1
28	537	Bearing - Left Front	1
29	542-A	Front Hanger Assy.	1
30	535	Bearing - Right	1
31	559	Set Screw - Special	1
32	533-A	Front Roller Assy. (Std.) (Incls. items #14, 15, 16 & 26)	1
33	753-A	Front Roller Assy. (Star Blade) (Incls. items #14, 15, 26 & 35)	1
34	712	Blade - Round (No Knit)	13
35	732	Blade - Star	41



CHASSIS AND DRIVE UNIT

CHASSIS AND DRIVE UNIT

ILLUS. PL-5487	PART NO.	NAME OF PART	AMT.
1	432	Gasket - Gear Box	1
2	684-A	Gear Box Assy. (Incls. items #3, 4, 5, 6, 8 & 9)	1
3	559	Set Screw - Special	2
4	606	Bearing - Oilite (1/2" x 3/4" x 1/2")	2
5	PL-3-20	Plug - 1" Expansion	3
6	605	Bearing - Oilite (5/8" x 7/8" x 5/8")	1
7	FP-28-42	Plug - 1/8" Hex Soc. Pipe	1
8	PL-3-20	Plug - 1" Expansion	2
9	606	Bearing - Oilite (1/2" x 3/4" x 1/2")	2
10	SC-11-87	Mach. Screw - 1/4"-20 x 5/8" Fil. Hd.	6
11	604	Bearing - Oilite (3/4" x 1" x 15/32")	2
12	605	Bearing - Oilite (5/8" x 7/8" x 5/8")	1
13	WS-11-44	Washer - Fiber (1/64" Thk.)	3
14	WS-9-13	Washer - Fiber (1/16" Thk.)	1
15	609	Spacer - Gear	1
16	243-1	Gear (32T)	2
17	587	Gear (44T)	1
18	607-A	#2 Reduction Shaft Assy. (49T & 24T)	1
19	WS-9-13	Washer - Fiber (1/16" Thk.)	1
20	WS-8-46	Washer - Thrust (Fiber, 1/16" Thk.)	2
21	613-A	Drive Shaft Assy. (16T)	1
22	611-A	#1 Reduction Shaft Assy. (49T & 16T)	1
23	WS-8-46	Washer - Thrust (Fiber, 1/16" Thk.)	2
24	606	Bearing - Oilite (1/2" x 3/4" x 1/2")	2
25	590	Seal - 1/2" Oil	1
26	PL-3-20	Plug - 1" Expansion	1
27	PL-3-20	Plug - 1" Expansion	1
28	591	Seal - Oil (3/4")	2
29	NS-17-2	Jam Nut - 1/4"-20 Hex Fin.	1
30	SC-9-43	Mach. Screw - 1/4"-20 x 1" Rd. Hd.	1
31	589	Bumper	2
32	579	Spacer - Foot	4
33	271	Foot	4
34	SC-9-32	Mach. Screw - 1/4"-20 x 1-3/8" Rd. Hd.	4
35	SC-47-95	Set Screw - 5/16"-18 x 1/4" Soc. Hdls. Cup Pt.	2
36	272	Coupling - Flexible	1
37	694-1	Motor - 115 V. - 60 Cy., 1 Ph.	1
38	694-2	Motor - 230 V. - 60 Cy., 1 Ph.	1
39	694-3	Motor - 115/230 V. - 50 Cy., 1 Ph.	1
40	695-1	Motor - 220 V. - 50/60 Cy., 3 Ph.	1
41	700-1	Motor - 115 V., D.C.	1
42	157	Fork - Cleaning	1
43	184-1	File - Web Saw (6")	1
44	185	Handle - File	1
45	278-A-1	File & Handle Assy. (Incls. items #43 & 44)	1
46	548-A	Cord & Plug Assy. (2 Cond. under 150 V.)	1
47	550-A	Cord & Plug Assy. (3 Cond. under 150 V.)	1
48	551-A	Cord & Plug Assy. (3 Cond. 200-250 V.)	1
49	580-A	Cord Only (Less Plug) (3 Cond.)	1
50	161	Switch (Give Elec. Spec.)	1
51	NS-9-41	Mach. Nut - 5/16"-18 Hex	4
52	WS-17-16	Washer (1/16" Thk.)	4
53	WS-5-37	Washer (1/32" Thk.)	As Req'd.
54	273-1	Bolt - Motor Mounting	4
55	SC-9-41	Mach. Screw - 1/4"-20 x 3/8" Rd. Hd.	1
56	220	Clip - Cord	1
57	RR-6-20	Retaining Ring	2
58	682	Shaft - Front Stub	1
59	681	Shaft - Back Stub	1
60	KW-3-3	Key - #404 Woodruff	2
61	275	Key (1/8" x 1/8" x 7/8")	2
62	385	Switch - "Unimax"	1
63	632	Bracket - Switch	1
64	WL-6-7	Lock Washer - #10 x .062" x .047"	2
65	SC-8-9	Mach. Screw - #10-24 x 3/8" Rd. Hd.	2
66	NS-9-7	Mach. Nut - #6-32 Hex	2
67	622-A	Switch Lead Assy.	1
68	WL-3-8	Lock Washer - #6 x .047" x .031"	2
69	SC-9-85	Mach. Screw - #6-32 x 1-1/4" Rd. Hd.	2
70	617-A	Chassis Assy. (Incls. items #11, 12, 24, 25, 26, 27 & 28)	1
71	639-A	Chassis Assy. (With Tapped Holes for Safety Switch) (Incls. items #11, 12, 24, 25, 26, 27 & 28)	1
	178-A	Tool Kit (Incls. items #42 & 45)	1
	628	Key - Switch De-activating (Not Shown)	1



INSTALLATION DIAGRAM