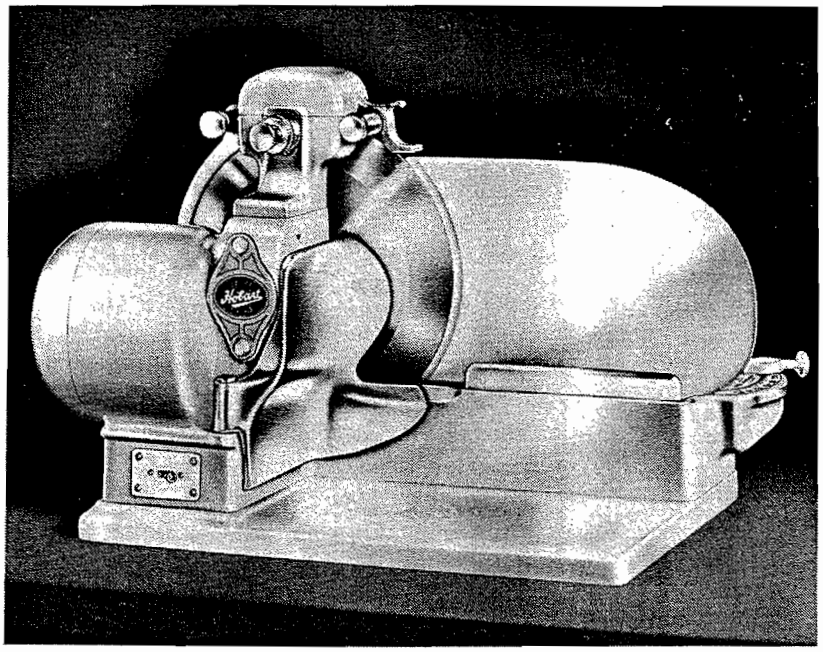
HOBART

INSTRUCTION MANUAL

... with Replacement Parts



MODEL 411 MEAT SLICER

ML-16496

A product of HOBART CORPORATION TROY, OHIO 45374

FORM 6967B (Rev. 2-75) (Supsds. F. 6967A, 5-70)

Instructions for Operation and Care of Hobart Slicer Model 411

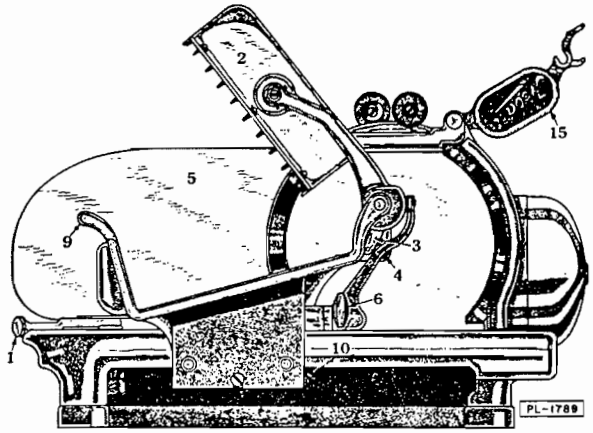


FIG. 1

1. ELECTRICAL CONNECTIONS:

Check the electrical specifications for the motor, which are stamped on the name plate under the slice adjusting lever (1, Fig. 1) before connecting to the power supply.

2. SAFETY PRECAUTION:

When the Slicer is not in use, keep the slice adjusting lever (1, Fig. 1) on zero. This guards the knife.

3. THICKNESS OF SLICES:

Movement of the lever (1, Fig. 1) adjusts the slice thickness. To cut dried beef, set lever at No. 2 and for bacon at No. 10. These settings may be varied to suit customer's preference.

4. MEAT GRIP:

When the meat grip (2, Fig. 1) is in the forward position, it cannot be lifted out of the carriage tray. To lift it, as shown in Fig. 1, pull it back approximately 2 inches. Then to latch the meat grip, lock arm (3, Fig. 1) under stop (4, Fig. 1).

5. FEED PRESSURE:

The feed pressure of the meat grip toward the gage plate (5, Fig 1) is adjustable by the thumb screw (6, Fig. 1). The following settings are recommended:

No. 1 - for bologna, bread, cheese, and small objects.

No. 2 - for bacon, dried beef, boiled ham.

No. 3 - for heavy foods.

6. SLICING FOOD:

Lay the meat or material to be sliced in the carriage tray and press the meat grip (2, Fig. 2) down until the teeth have a firm grip. Or if a short piece is to be sliced, place the meat grip behind the meat. The feed pressure is regulated as called for in paragraph 5. Set the slice adjusting lever (1, Fig. 1) for the proper thickness of slice.

Grasp the handle (7, Fig. 2) with the right hand to move the carriage back and forth. Use the left hand to arrange the slices as they come from the knife. The slices may be stacked on the receiving tray (8, Fig. 2), or lay a sheet of paper on the tray and stack the slices directly on the paper. The food may then be weighed and wrapped with a minimum of handling.

To use the slicer with the meat grip (2, Fig. 2) in the "UP" position as shown in Fig. 1, lock the thumb under the guard (9, Fig. 2), holding the meat in the tray with the rest of the hand.

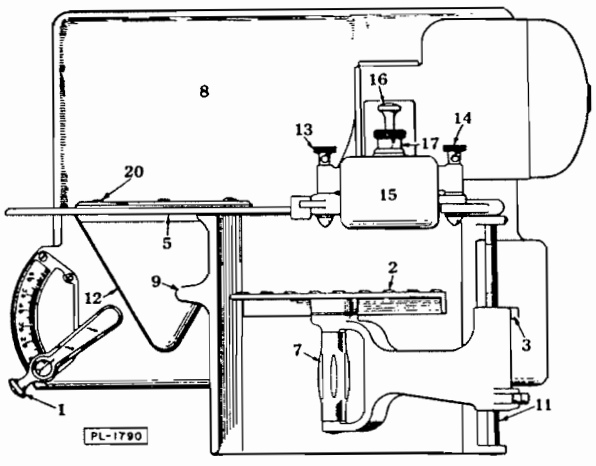


FIG. 2

Always keep your hand to the right of this guard (9, Fig. 2) as a safety precaution.

7. CLEANING:

Use normal cleaning methods that would be employed on similar equipment. Set the slice adjusting lever (1, Fig. 1) at zero and clean the knife while in motion. If a guard is removed for cleaning, exposing the edge of the knife, stop knife and use caution in cleaning.

8. LUBRICATION:

Using a small amount of oil, lubricate the slide rods weekly through the oiler (10, Fig. 1). Also, once a week apply a very light film of oil on the carriage slide rod (11, Fig. 2), and on the flat surface (12, Fig. 2). The gear case and motor bearings are packed with special grease and will not need frequent attention. Have a Hobart service technician check this lubrication once a year.

9. SHARPENING:

This machine is equipped with a stainless Hobart Stay-Sharp Knife and with average use will retain its keen edge for several months. Never sharpen unless necessary. Before and after sharpening, wipe off the knife on both sides, with all guards in place, the lever at zero and the motor running. Stop the motor, loosen the thumb screws (13 & 14, Fig. 2), and swing up the cover (15, Fig. 1). Start the motor and push in on the knob (16, Fig. 3) to grind the bevel side of the knife. Pull back on the knob for a second, so that the truing wheel will remove the burr on the straight side of the knife. Check sharpness with a piece of paper in the carriage tray.

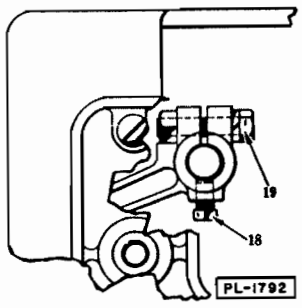


FIG. 3

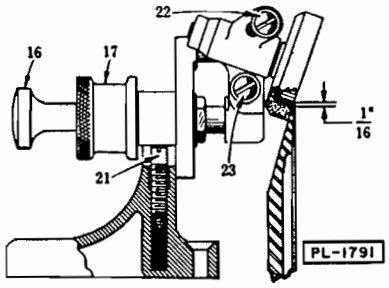


FIG. 4

10. CARE OF GRINDER UNIT:

To keep the grinder unit clean and to prevent unauthorized persons from using it, remove it from the housing. To do this, stop the motor, loosen knurled nut (17, Fig 4) and lift out unit. To clean the grinding and truing wheels, scrub the surfaces with a stiff brush wet with ammonia or hot soap suds.

11. ADJUSTMENTS:

To adjust the gage plate (5, Fig. 1), so that it is in line with the cutting edge of the knife, with the adjusting lever at zero, lay the machine over on its side. Set the gage plate in line with the knife, then loosen the set screw (18, Fig. 3) and the screw (19, Fig. 3). Bring adjusting lever to zero setting. Tighten screw (19, Fig. 3) before tightening set screw (18, Fig. 3).

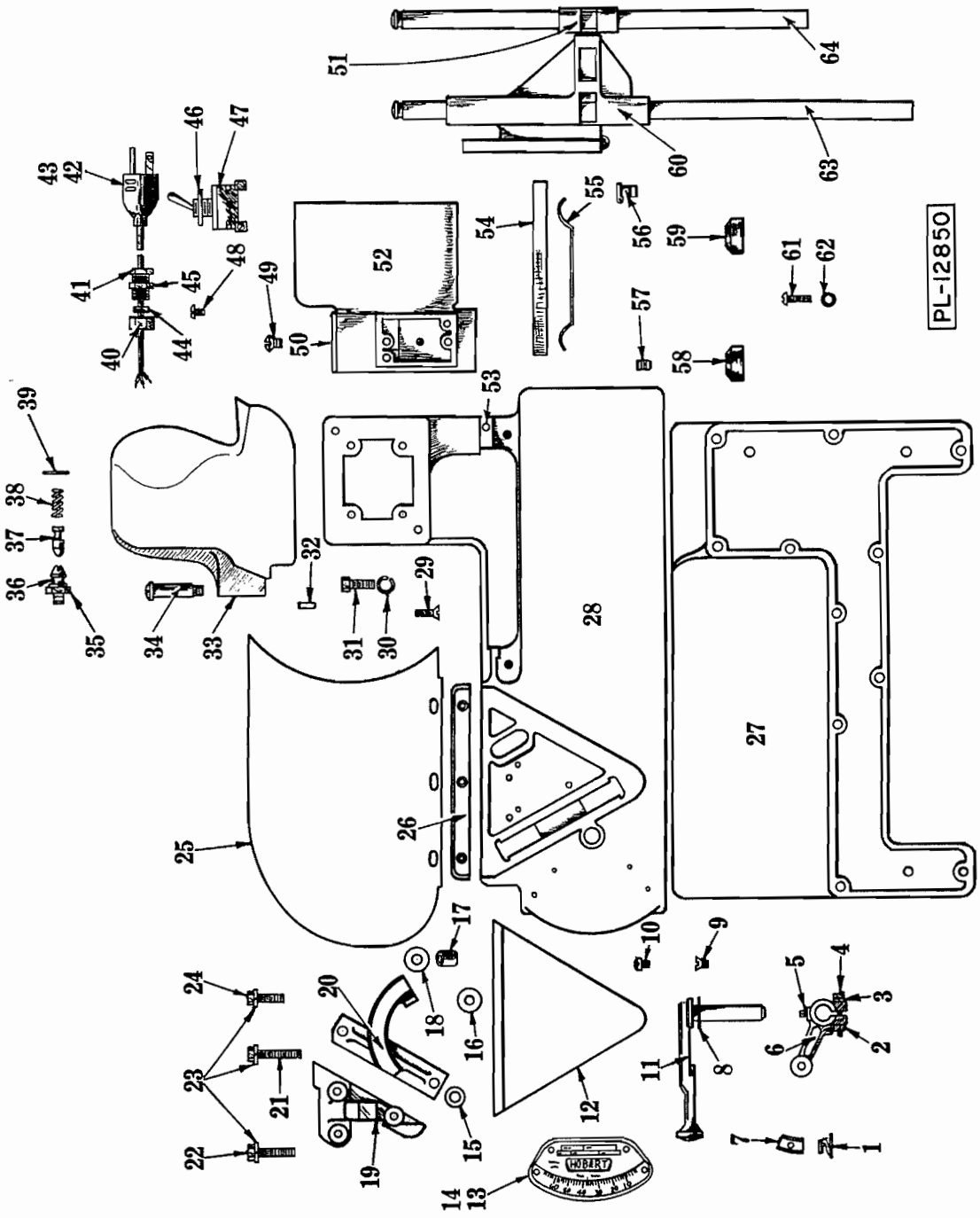
To move the gage plate (5, Fig. 1) nearer the knife, loosen the three screws (20, Fig. 2). Tap the gage plate lightly to move it over and retighten the screws (20, Fig. 2).

To adjust the grinding wheel unit, lift the cover and remove the unit. Turn the adjusting screw (21, Fig. 4). When properly set, the cutting edge of the knife should be 1/16" above the lower inner rim of the grinding wheel as shown.

Loosen screws (22 & 23, Fig. 4), and change the angle of tilt slightly to shorten the bevel on the knife edge.

Any knife which excessive or improper grinding has worn down to 10-1/2", should be replaced with a new one.

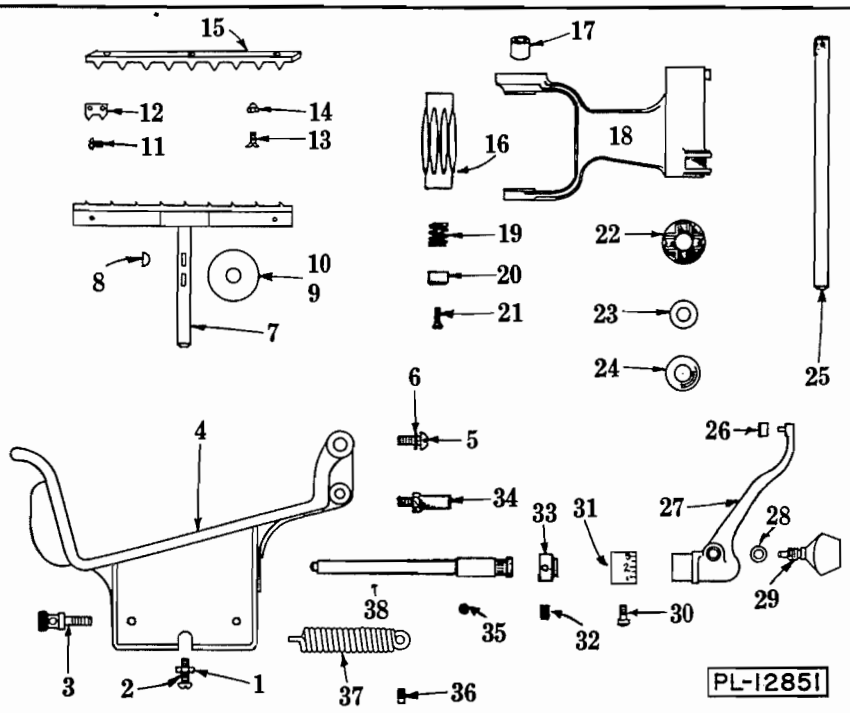
Motor parts are listed on separate Motor Parts Sheet.



BASE AND MAIN FRAME UNIT

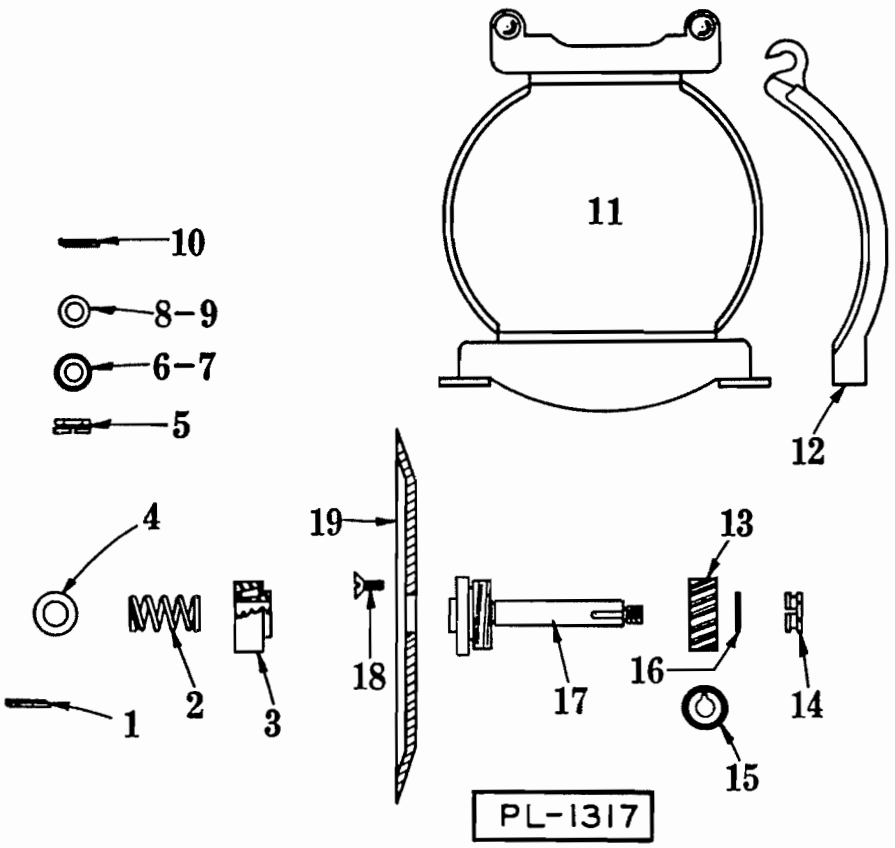
BASE AND MAIN FRAME UNIT

ILLUS. PL-12850	PART NO.	NAME OF PART	AMT.
1	V-13279	Spring	1
2	NS-8-14	Mach. Nut - 5/16"-18 Sq.	1
3	WL-3-45	Lock Washer - 5/16" x .143" x .108"	1
4	SC-36-30	Fin. Bolt - 5/16"-18 x 1-1/2" Hex Hd.	1
5	SC-48-9	Set Screw - 5/16"-18 x 1/2" Sq. Hd., Cup Pt.	1
6	P-13263	Arm - Cam	1
7	P-13281	Shoe - Cam Plate	1
8	WS-9-33	Washer - Shift Lever Shaft	As Reqd.
9	SC-13-12	Mach. Screw - #6-32 x 1/4" Flat Hd.	2
10	SC-11-13	Mach. Screw - #10-24 x 1/4" Fil. Hd.	2
11	R-13264	Lever - Shift	1
12	R-13205	Base - Gage Plate	1
13	C-117870-1	Plate - Mach. Data (60 Hz.)	1
14	C-117870-2	Plate - Mach. Data (50 Hz.)	1
15	WS-8-1	Washer - Cam Plate	As Reqd.
16	WS-4-31	Washer - Gage Plate Base	1
17	V-13186	Spacer	1
18	WS-4-18	Washer (Spacer)	As Reqd.
19	R-13267	Support - Rear Slide Rod	1
20	M-60286	Cam Plate and Dowel Sub-Assy.	1
21	SC-36-32	Fin. Bolt - 5/16"-18 x 2" Hex Hd.	1
22	SC-36-31	Fin. Bolt - 5/16"-18 x 1-3/4" Hex Hd.	2
23	WL-3-43	Lock Washer - 5/16" x .117" x .056"	6
24	SC-36-28	Fin. Bolt - 5/16"-18 x 1-1/4" Hex Hd.	3
25	S-15792	Plate - Gage	1
26	P-13184	Bar - Clamp	1
27	T-13207-1	Base	1
28	T-19305-2	Frame - Main	1
29	SC-39-15	Cap Screw - 5/16"-18 x 1" Flat Hd.	3
30	WL-4-2	Lock Washer - 3/8" x .136" x .070"	4
31	SC-36-54	Fin. Bolt - 3/8"-16 x 1" Hex Hd.	4
32	D-11800-116	Dowel (aligns Motor)	2
33	S-13285	Deflector - Slice	1
34	M-13288	Hinge Pin - Deflector	1
35	NS-17-7	Jam Nut - 5/16"-18 Hex Fin.	1
36	M-10941	Stud - Stop	1
37	V-13289	Plunger	1
38	V-3605	Spring	1
39	PG-3-1	Groov-Pin - Type #1, 1/16" x 5/8"	1
40	V-14051-2	Nut - Clamping Ring (3 Cond.)	1
41	M-14048-3	Bushing - Cord (3 Cond.)	1
42	B-117542-7	Cord & Plug Assy. (3 Cond., Under 150 V.)	1
43	B-117542-12	Cord & Plug Assy. (3 Cond., 200-250 V.)	1
44	M-14050-4	Ring - Clamping (3 Cond.)	1
45	V-14049	Lock Nut - Bushing	1
46	B-114556	Plate - Switch	1
47	B-87711-135-1	Switch - Toggle (Incls. Nuts)	1
48	SC-19-26	Mach. Screw - #6-32 x 1/4" Bind. Hd. (Switch to Frame)	4
49	SC-15-31	Mach. Screw - #10-24 x 3/8" Oval Hd.	2
50	M-14937	Cap - Cover	1
51	P-13167	Bearing - Rear Carriage (Small)	1
52	T-13175-3	Frame - Motor	1
53	V-13287	Stud - Rear Knife Guard Locating	1
54	V-13214	Wicking - Carriage	1
55	V-13179	Retainer - Wicking	1
56	OG-3-22	Oiler	1
57	SC-47-32	Set Screw - 5/16"-18 x 5/16" Soc. Hdls., Cup Pt.	4
58	V-13162-2	Bumper - Carriage (used as Foot)	3
59	V-13162-1	Bumper - Carriage	2
60	M-60277	Front Carriage Brg. & Stud Sub-Assy. (Incls. item #56)	1
61	SC-8-92	Mach. Screw - 5/16"-18 x 1" Rd. Hd.	11
62	WL-3-43	Lock Washer - 5/16" x .117" x .056"	11
63	P-23416-2	Slide Rod - Front (Long)	1
64	P-23415-2	Slide Rod - Rear (Short)	1
	---	Motor (See Separate Motor Parts Sheet)	1



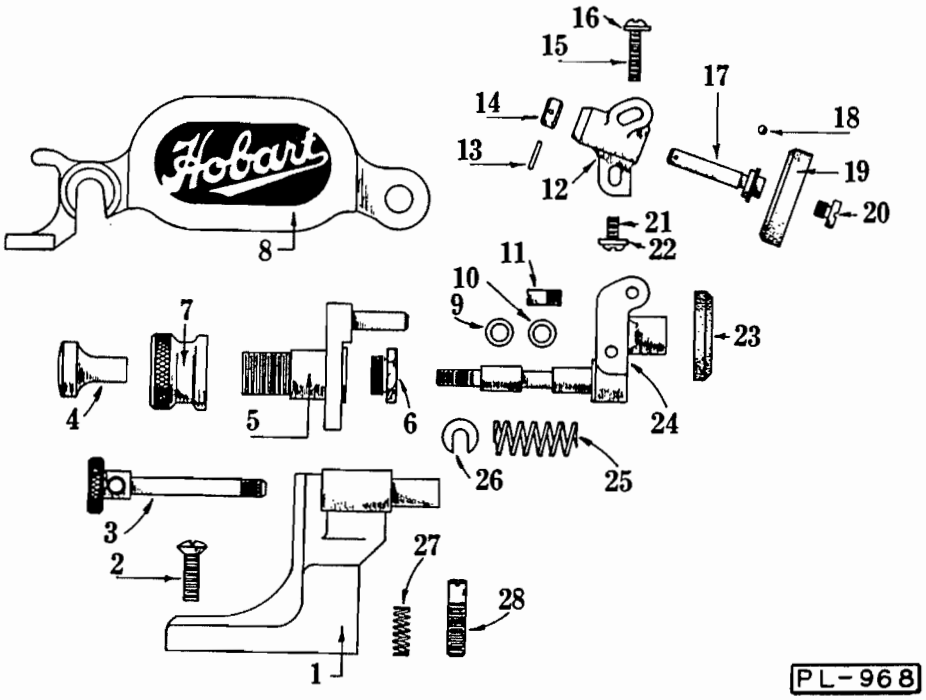
CARRIAGE UNIT

ILLUS. PL-12851	PART NO.	NAME OF PART	AMT.
1	NS-17-7	Jam Nut - 5/16"-18 Hex Fin.	1
2	SC-9-3	Mach. Screw - 5/16"-18 x 1" Rd. Hd.	1
3	V-22163	Screw - Special Knurled Hd.	2
4	T-103922	Tray - Carriage	1
5	SC-8-11	Mach. Screw - #10-24 x 3/4" Rd. Hd.	1
6	WL-3-22	Lock Washer - #10 x .055" x .040"	1
7	R-13901	Grip - Meat	1
8	KW-3-5	Key - #405 Woodruff	1
9	WS-8-24	Washer (1/16" Thk.)	As Reqd.
10	WS-8-23	Washer (1/32" Thk.)	As Reqd.
11	SC-7-8	Mach. Screw - #4-40 x 1/4" Rd. Hd.	4
12	V-13900	Slide - Meat Grip	2
13	SC-13-25	Mach. Screw - #8-32 x 5/16" Flat Hd.	3
14	V-14459	Nut - Hex Cap	3
15	P-103929	Bottom - Meat Grip	1
16	M-10907-2	Handle - Carriage	1
17	V-103933	Spacer - Carriage Arm Shaft	1
18	M-78757	Carriage Arm & Bearing Sub-Assy. (Incls. items #22, 23 & 24)	1
19	V-10818-1	Spring	1
20	V-103927	Bearing - Handle	1
21	SC-15-36	Mach. Screw - #10-24 x 5/8" Oval Hd.	1
22	M-21067	Roller Cage Assy.	2
23	V-103923	Washer	2
24	V-111192-1	Washer - Expansion	2
25	V-13886	Slide Rod - Carriage Arm	1
26	V-13244	Roller	1
27	R-103924	Arm - Feed Mechanism	1
28	WS-4-2	Washer - Thrust	1
29	C-108197-10	Thumb Screw Assy.	1
30	V-103926	Stud - Arm	1
31	M-103925	Collar - Arm	1
32	SC-47-26	Set Screw - 1/4"-28 x 3/8" Soc. Hdls., Cup Pt.	1
33	V-13884	Collar	1
34	M-13876	Stop - Carriage Arm	1
35	BA-2-1	Ball - 1/8" Dia.	25
36	M-5014-1	Stud - Anchor	1
37	P-13260-1	Spring - Feed Mechanism	1
38	P-13898	Shaft - Feed Mechanism	1
	S-13913	Carriage Tray Assy. (Incls. items #4 thru 38)	1



KNIFE, GEAR AND GUARD UNIT

ILLUS. PL-1317	PART NO.	NAME OF PART	AMT.
1	R-12430-47	Key	1
2	V-16593	Spring - Knife Shaft	1
3	BR-2-13	Roller Bearing - Cup & Cone Assy.	2
4	WS-11-20	Washer - Thrust	1
5	NS-32-23	Stop Nut - 7/16"-20 "Flexloc"	1
6	V-17777-1	Retainer - Shock Washer (29/64" I. D.)	1
7	V-17777-2	Retainer - Shock Washer (41/64" I. D.)	1
8	V-17778-1	Shock Washer (29/64" I. D.)	1
9	V-17778-2	Shock Washer (41/64" I. D.)	1
10	R-12430-3	Key	1
11	R-13286	Center Plate & Knob Assy.	1
12	R-13238	Guard - Rear Knife	1
13	V-13177	Gear - Spiral (24T)	1
14	NS-32-29	Stop Nut - 1/2"-20 "Flexloc"	1
15	C-12743	Worm (5T)	1
16	WS-8-9	Washer	1
17	P-13170	Shaft - Knife	1
18	SC-22-39	Mach. Screw - 1/4"-20 x 5/8" Flat Hd.	3
19	S-13283	Knife	1



GRINDER UNIT

ILLUS. PL-968	PART NO.	NAME OF PART	AMT.
1	S-13203-2	Pedestal - Grinder Housing	1
2	SC-15-70	Mach. Screw - 1/4"-20 x 1" Oval Hd.	2
3	M-22164	Screw - Knurled Thumb	2
4	V-111324-2	Knob - Pull Rod	1
5	P-13224	Guide - Wheel Carrier	1
6	V-13193	Bushing	1
7	M-13220-3	Nut - Thumb	1
8	S-13202-2	Housing - Grinder	1
9	WS-3-11	Washer	1
10	WS-3-14	Washer	As Reqd.
11	V-5014	Stud - Anchor	1
12	P-14434	Carrier - Grinding Wheel	1
13	PG-3-8	Groov-Pin - Type #1, 3/32" x 1/2"	2
14	V-13199	Collar - Grind & Truing Wheel Shaft	2
15	SC-8-53	Mach. Screw - #12-24 x 1" Rd. Hd.	1
16	WS-2-29	Washer	1
17	M-13197	Shaft - Grind & Truing Wheel	2
18	BA-2-1	Ball - 1/8" Dia.	18
19	M-13200	Wheel - Grinding	1
20	V-3404-3	Screw - Special	2
21	SC-8-48	Mach. Screw - #12-24 x 1/2" Rd. Hd.	1
22	WS-2-29	Washer	1
23	M-13201	Wheel - Truing	1
24	R-111206	Carrier - Truing Wheel	1
25	V-17325	Spring	1
26	V-13194	Washer - Special "U"	2
27	V-111170	Spring	1
28	V-13284	Screw - Special	1
	M-60607	Grinding Unit Sub-Assy. (Incls. items #4, 5, 6, 7, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25 & 26)	1