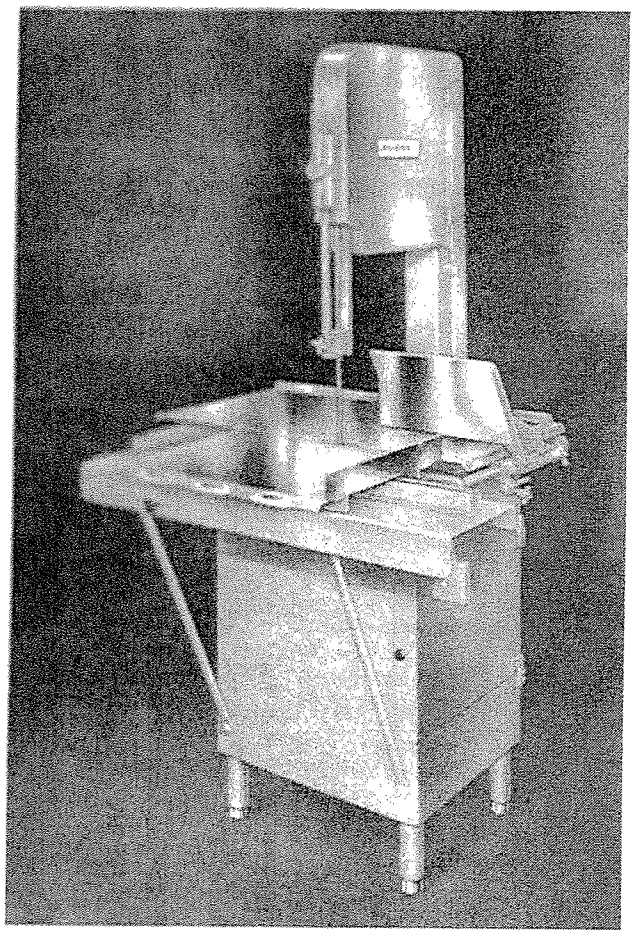
HOBART

INSTRUCTION MANUAL

... with Replacement Parts



MODELS 5514, 5514-HS, 5514-D & 5514-D HS MEAT SAWS

ML-18957	5514 (Painted)
ML-18959	5514-HS (Painted)
ML-18958	5514-D (SST)
ML-18960	5514-D HS (SST)

A product of HOBART CORPORATION TROY, OHIO 45374

FORM 11559A (Rev. 8-74) (Supsds. F. 11559, 3-74)

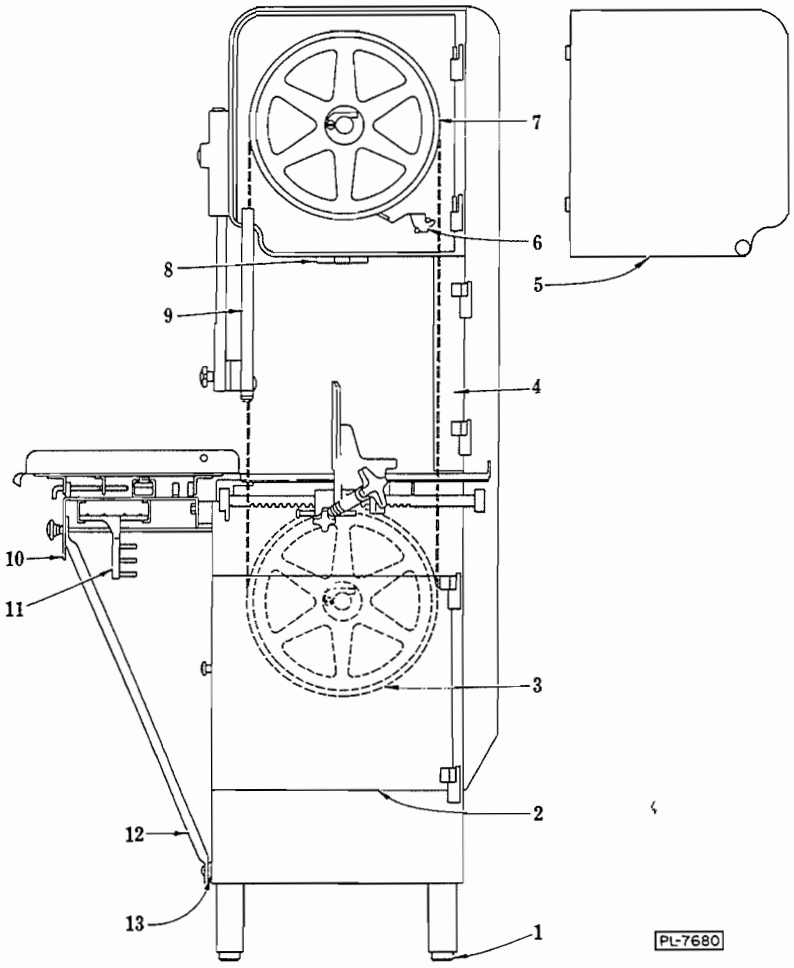


Fig. 1

Installation, Operation and Care of MODELS 5514, 5514-HS, 5514-D & 5514-D HS MEAT SAWS

A. **UNPACKING:**

A.1 Remove the shipping box that covers the saw. The following parts (which were disassembled for shipping purposes) should now be unpacked: table assembly, carriage assembly, carriage support assembly, saw blade, front wiper assembly, rear wiper assembly, switch push rod and feet. The pusher plate is packed in the scrap pan in the base compartment. Remove the four retaining bolts from the underside of the skid.

B. **SETTING UP (Installation):**

B.1 Place the machine in its operating location and re-assemble the feet (1, Fig. 1). Place a spirit level on top of the base unit and level the base, side to side and front to back, by adjusting the feet. Lock feet in place, using set screws furnished.

B.2 Disassemble the fourteen retaining screws and remove the motor access panel on the left hand side of machine. Then using the dowels as locators, bolt the carriage support (10, Fig. 1) to the base. Next assemble the two support braces (12, Fig. 1). Spacers (13, Fig. 1) are used on the lower carriage bolts, and nuts (with lock washers) are assembled on the inside of the base.

B.3 Give the tension adjustment hand wheel (8, Fig. 1) a few turns to the left to lower the upper blade pulley (7, Fig. 1). Open the head door (5, Fig. 1). Remove the blade cover assembly (4, Fig. 1). Raise gage plate (1, Fig. 4) to its vertical position. Lower the upper guide unit (Fig. 2) to its lowest position.

Place the saw blade over the upper blade pulley (7, Fig. 1) and the lower blade pulley (3, Fig. 1). The blade teeth

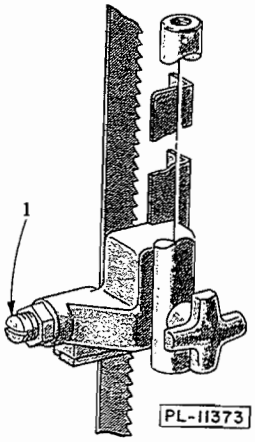


Fig. 2

(5, Fig. 3) must point to the right and downward when viewed from the front of the saw. If the teeth do not point downward, remove the blade, twist it inside out and replace it on the saw. Make sure the blade is properly placed in the upper guide unit (Fig. 2).

Turn the tension adjustment hand wheel (8, Fig. 1) to the right until the figure "3" starts to show in the tension indicator (2, Fig. 4). Give the upper blade pulley a few turns by hand so that the blade centers itself on the pulleys. Then turn the tension adjustment hand wheel slowly to the right until the indicator registers approximately "5" at eye level. This is the best operating tension for the blade.

NOTE: See section "J" for adjustment of blade back-up blocks.

B.4 Position the rear wiper assembly (10, Fig. 3) with holes over the slide studs. Slide to right until spring catch (11, Fig. 3) locks assembly in place. Wipers (9, Fig. 3) should be on both sides of blade.

B.5 Swing up nylon guard (4, Fig. 3). Position front wiper assembly (1, Fig. 3), with blade in slot of steel block (6, Fig. 3) and wipers (2, Fig. 3) on both sides of blade. Align assembly into slot (3, Fig. 3) of wiper bracket slideway and lower into position. Close nylon guard (4, Fig. 3).

B.6 Close head door (5, Fig. 1) (a permanent magnet holds the door in a closed position).

B.7 With the gage plate (1, Fig. 4) in its vertical position (to clear table area), assemble the table (4, Fig. 4). Holding the table in a low position, slide it to the right then back to the left so that the table cross rod hooks onto the stationary clamp (1, Fig. 5). The four table rests (5, Fig. 4) support and align the angles on the underside of the table. Latch the table down with the table clamp (6, Fig. 4). Assemble and latch the blade cover (4, Fig. 1).

B.8 The carriage may be assembled from either side. Turn the "L" shaped carriage stop (Fig. 6) so that the rubber bumper is toward rear of machine. Align the center bearings of the carriage with the carriage guide (7, Fig. 4). Roll carriage into place. Turn carriage stop (Fig. 6) into stopping position.

B.9 Assemble the switch pull rod and knob assembly (11, Fig. 4). Insert rod through hole in carriage support, then through grommet in base. Turn switch rod and knob assy. clockwise and thread firmly into switch rod connector (9, Fig. 4).

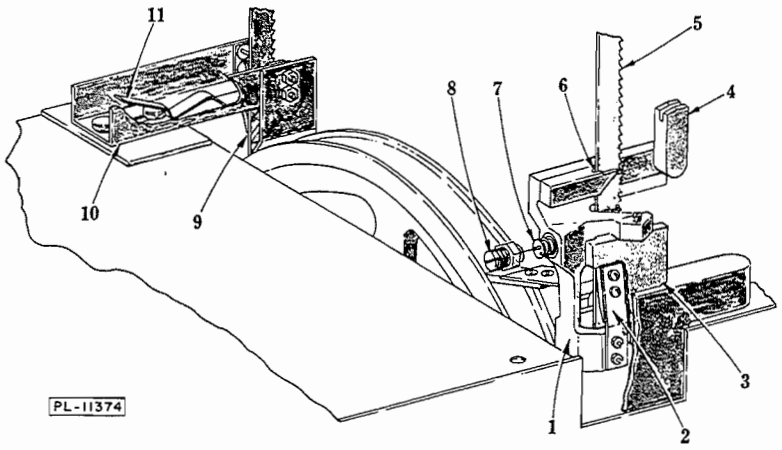


Fig. 3

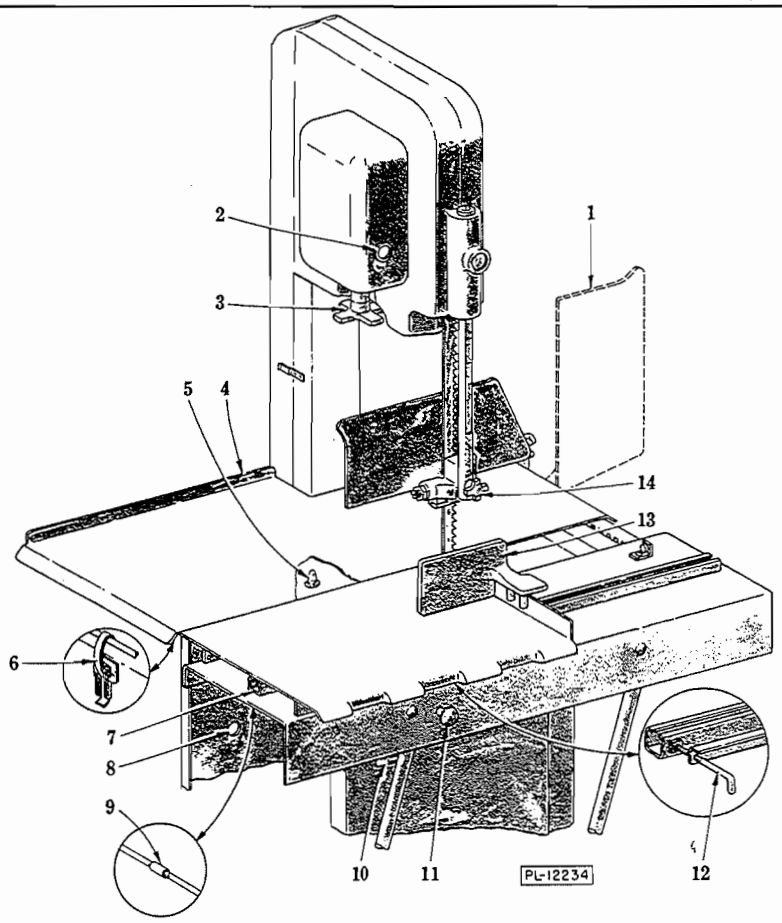


Fig. 4

NOTE: Switch should always be assembled so that switch knob (11, Fig. 4) must be pulled to start machine. Do not re-assemble access panel until electrical connections have been made.

C. WIRING:

Electrical connections should be made by qualified workmen who will observe all applicable Safety Codes and the National Electrical Code.

CHECK THE DATA ON THE NAME PLATE (10, Fig. 4) TO MAKE SURE THAT IT AGREES WITH YOUR ELECTRICAL SUPPLY BEFORE CONNECTING TO THE POWER LINE.

A hole (8, Fig. 4) in the base is provided for connecting rigid or flexible conduit to the machine. Connect power leads directly to contactor leads. The motor leads are already connected to the switch at the factory.

Be sure to use wire large enough to meet your local code requirements. For proper performance use wire sizes of NOT LESS than #12 gage for 208 & 230 V. on single phase models. Use #14 gage for 208, 220 and 440 V. on three phase models. For long runs, between power inlet and saw, use a larger size.

D. SAFETY FEATURES:

The Hobart saw is provided with safety devices to give maximum protection to the operator. Keep guards in place at all times.

D.1 UPPER GUIDE & GUARD ASSY. (9, Fig. 1): Keep as low as the size of the work permits for safety reasons.

D.2 DOORS: Keep all doors closed while the machine is running.

D.3 BUTT-END PUSHER (13, Fig. 4): Use the pusher plate as described in section "F.5" and it will be unnecessary to hold your hand near the running saw blade.

D.4 GAGE PLATE: The end of the gage plate (1, Fig. 4) is shaped to give maximum support of the product being cut and protection at this critical point. The gage plate shape also facilitates slice removal.

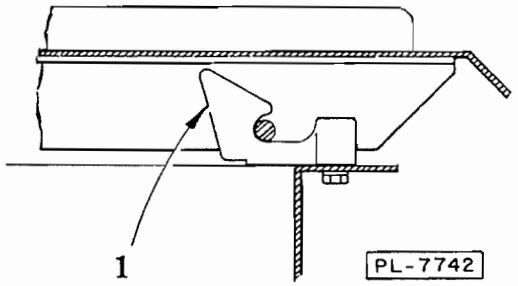


Fig. 5

D.5 SWITCH KNOB (11, Fig. 4): Knob must be pulled to start machine. This eliminates chance starting by accidental bumping of knob.

E. **LUBRICATION:**

Very little lubrication is required, because all the high-speed shafts have either roller or ball bearings which are grease packed and will operate a long time without attention.

E.1 Keep a small amount of grease in the six ball bearing rollers on the carriage.

E.2 Apply a few drops of oil frequently to the gage plate rack (4, Fig. 7) and work the gage plate assembly back and forth a few times. (See cleaning instructions).

E.3 For top operating efficiency have your local Hobart service technician check this machine at least once a year.

F. **OPERATION:**

F.1 Place the item to be cut on the carriage and turn on the motor switch by pulling switch knob (11, Fig. 4). Stand in front of the machine, leaning lightly against the scalloped front of the carriage, move the carriage to the left, past the saw blade, at a steady and uniform rate. Your left hand will then be free to take away and stack the items as they are cut off. Make it a habit to move your hand around the left side, or back of the saw blade, when reaching for an item – NEVER IN FRONT OF THE TEETH. On the return stroke, pull the item toward you so that it clears the saw blade.

F.2 If a locked carriage is desired: move the carriage to the point where the right end of the carriage is in line with the right end of the table. The carriage lock screw (12, Fig. 4) is then in alignment with the hole in carriage guide. Tighten the lock screw and the carriage is locked in place. With the locked carriage the SAME Safety Procedure of reaching to the left side (or back) of the saw blade when removing or stacking items should ALWAYS be observed.

F.3 When cutting slices of uniform thickness, set the gage plate at the desired position, by turning the adjusting knob (1, Fig. 7). A scale is etched on the table (4, Fig. 4). If the gage plate is not needed and interferes with the work, it may be moved out of the way by either of the two following methods:

(a) Lift the adjusting knob (1, Fig. 7) (to disengage the teeth of the rack (4, Fig. 7)) and slide the gage plate to the rear of the machine.

(b) Raise the gage plate to a vertical position (1, Fig. 4). In this vertical position, the gage plate may be slid to any location.

F.4 The adjustable gaging pin (3, Fig. 7), (after being set), permits the operator to raise the adjusting knob (1, Fig. 7), slide the gage plate back out of the way, then return the gage plate to its original setting (turn knob (1, Fig. 7) clockwise to "snug-up" gage plate and make sure rack teeth are engaged). To set the gaging pin, loosen hand knob (2, Fig. 7) and slide pin against the support stop. Tighten hand knob.

F.5 Use the pusher plate (13, Fig. 4) to hold the meat against the gage plate when slicing short ends. Dowels in the pusher plate give the necessary alignment with the raised edge of the carriage. A stop on this raised edge of the carriage prevents over-travel. By holding the pusher plate with your right hand, your hand will then always be a safe distance from the saw blade. Store the pusher plate on the under side of the carriage support (11, Fig. 1) when not in use.

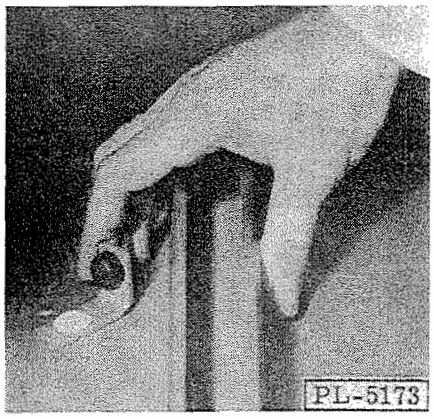


Fig. 6

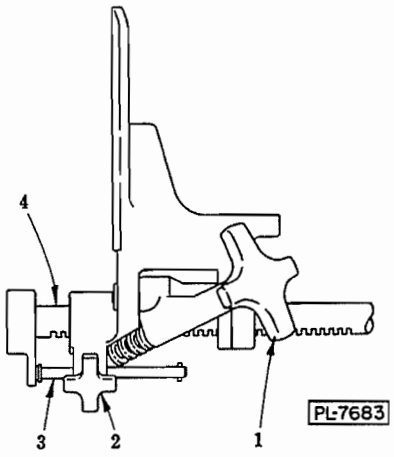


Fig. 7

G. **CLEANING & SANITIZING:**

This saw has been designed for quick and easy cleaning. It is IMPORTANT that any machine used for the preparation of food be kept in a clean and sanitary condition. Daily cleaning is recommended. Make sure saw is turned "off" and stopped before starting cleaning operation.

PROCEDURE:

G.1 Turn (at either end) the "L" shaped carriage stop (Fig. 6) and roll off stainless steel carriage.

G.2 Rotate gage plate (1, Fig. 4) to raised or vertical position.

G.3 Open and lift off blade cover (4, Fig. 1).

G.4 Release table clamp (6, Fig. 4) and remove stainless steel table.

G.5 Clean the gage plate rack (4, Fig. 7).

G.6 Open and lift off head door (5, Fig. 1). Lift out upper pulley wiper (6, Fig. 1). Clean wiper. Do not replace at this time.

G.7 Swing up nylon guard (4, Fig. 3) and lift out front wiper assembly. Clean unit. Do not replace at this time.

G.8 Lift spring catch (11, Fig. 3) and slide rear wiper unit (10, Fig. 3) to the left. Lift up and off. Clean unit.

G.9 Open, lift and remove base door (2, Fig. 1).

G.10 Turn tension adjusting hand wheel, (3, Fig. 4) to the left to release blade tension. Remove saw blade and clean in sink.

G.11 Remove hand knob (14, Fig. 4). Remove upper guide unit (Fig. 2) (with blade already removed or tension released on blade). Clean, lubricate with TASTELESS oil. Do not replace at this time.

G.12 Remove upper (7, Fig. 1) and lower (3, Fig. 1) blade pulleys by opening latches (1, Fig. 8) clear of shafts and sliding pulleys from the shafts. Clean pulleys in sink and lubricate bore before replacing.

NOTE: When replacing pulleys, make sure the pulley latches (1, Fig. 8) are properly seated in grooves of shafts. (Upper and lower blade pulleys are interchangeable).

G.13 All areas are now exposed for easy and thorough cleaning via one of the two following procedures:

G.13.1 HAND CLEANING:

G.13.1.1 Materials required:

G.13.1.1.1 Small nylon bristled brush with (approx.) 12" handle.

G.13.1.1.2 Small plastic two compartment pail.

G.13.1.1.3 Clean cloths.

G.13.1.1.4 Cleaner ("Soilax" All Purpose Cleaner).

G.13.1.1.5 Sanitizer ("Mikro-Klene" iodophor sanitizer).

G.13.1.1.6 Plastic spray bottle (for sanitizer).

G.13.1.2 Procedure (using "Soilax" and "Mikro-Klene"):

G.13.1.2.1 Add two ounces of "Soilax" All Purpose Cleaner to a gallon of hot water in wash side of two compartment pail.

G.13.1.2.2 Mix rinse solution by adding two teaspoons of "Mikro-Klene" in one gallon of cool water in rinse side of pail.

G.13.1.2.3 Brush out large scraps of soil and meat waste.

G.13.1.2.4 Begin cleaning in the upper pulley area. Brush thoroughly all surfaces being sure to get in corners. Work your way down, being sure to dip the brush frequently into the cleaning solution.

G.13.1.2.5 Similarly clean the top area (which was covered by the table and the carriage). Work down into the lower pulley housing.

G.13.1.2.6 Remove the scrap pan and wash separately in sink, Brush clean, the housing and the area around the scrap pan.

G.13.1.2.7 Rinsing and sanitizing can be done in one of two ways:
(a) Go over all cleaned surfaces with a cloth soaking wet in the "Mikro-Klene" rinse solution.
(b) Rinse in fresh water and apply "Mikro-Klene" solution via of spray bottle.

G.13.1.2.8 Allow all surfaces to drain dry and then re-assemble. Do not wipe dry.

G.13.1.2.9 Protect saw from re-contamination by covering.

G.13.1.2.10 Rinse the nylon brush thoroughly under running water. Then dip the brush in standard solution of "Mikro-Klene" 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.

G.13.2 HYDRAULIC CLEANING:

G.13.2.1 Materials required (Economics Laboratory System).

G.13.2.1.1 Model E "Mikro-Spray" (Economics Laboratory, Inc.).

G.13.2.1.3 "Mikro-Quat" detergent-sanitizer.

G.13.2.2 Procedure:

G.13.2.2.1 Insert an eight ounce bottle of "Mikro-Quat" into the Model E "Mikro-Spray" and turn on the hot water.

G.13.2.2.2 Spray clean and sanitize both pulley housings and the table area. Be sure to get the hose stream into all corners. Stubborn soil may require a little brushing.

G.13.2.2.3 Rinse with fresh water from another hose and allow to drain dry. Cover and store as in procedure G.13.1.

G.13.2.2.4 Either a floor drain or a wet vacuum pick-up machine is required to dispose of the cleaning and rinsing solutions. It may also be desirable to have a portable shower curtain type arrangement to prevent excess splashing into other areas of the work space.

H. CHANGING SAW BLADES:

H.1 Turn the left-hand carriage stop (see section G.1) and move the carriage to the left a few inches beyond the nylon guard (4, Fig. 3).

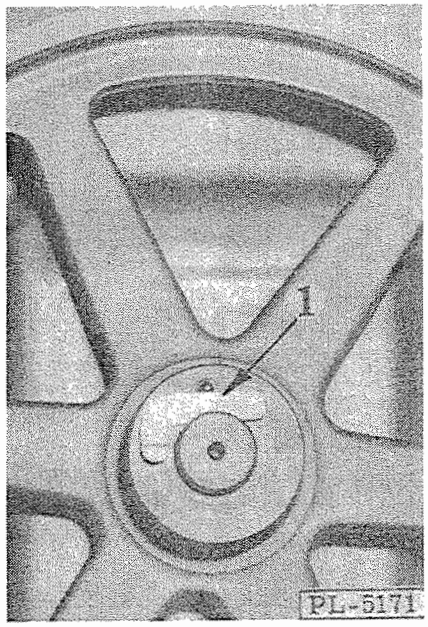


Fig. 8

H.2 Raise gage plate (1, Fig. 4) to vertical position.

H.3 Turn tension adjusting hand wheel (3, Fig. 4) to left to release blade tension.

H.4 Remove blade cover assembly (4, Fig. 1).

H.5 Release table clamp (6, Fig. 4) and remove table.

H.6 Open head door (5, Fig. 1).

H.7 Swing up nylon guard (4, Fig. 3).

H.8 Remove saw blade.

H.9 Assemble new blade. Make sure front and rear lower blade wipers are on both sides of blade.

H.10 Turn the tension adjusting hand wheel (3, Fig. 4) to the right until the edge of the "3" first appears in the window (2, Fig. 4).

H.11 Turn the upper blade pulley (7, Fig. 1) by hand to center the blade.

H.12 Turn the tension adjusting hand wheel to the right until the indicator (2, Fig. 4) registers "4" at eye level.

H.13 Close the lower nylon guard (4, Fig. 3).

H.14 Re-assemble table and other disassembled parts.

J. ADJUSTMENT OF BLADE BACK-UP BLOCK:

Special TUNGSTEN CARBIDE blade back-up blocks take the cutting thrust. They are located at the back edge of the saw blade, in the upper guide (Fig. 2) and the front lower wiper unit (Fig. 3).

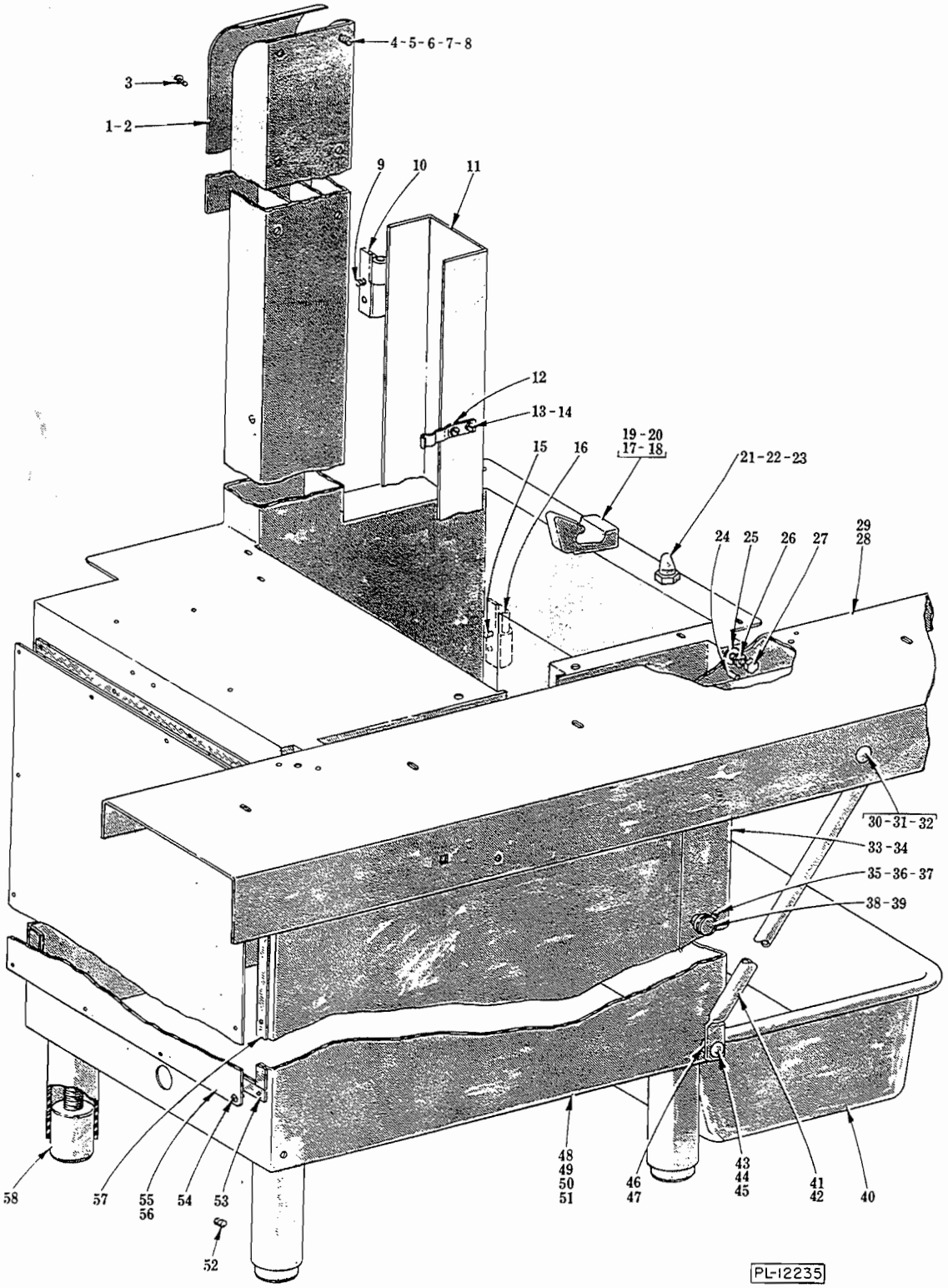
J.1 Adjust the upper back-up block by turning screw (1, Fig. 2).

J.2 Adjust the lower back-up block (7, Fig. 3) by turning screw (8, Fig. 3).

NOTE: Clearance between back-up blocks and blade should be approximately 1/32" (with the saw running without load). ALWAYS check and adjust to this dimension after changing saw blades, as blade widths may vary.

K. BLADE REPLACEMENT:

Two saw blades are furnished as regular equipment with each machine. Replacement blades are available through all Hobart offices.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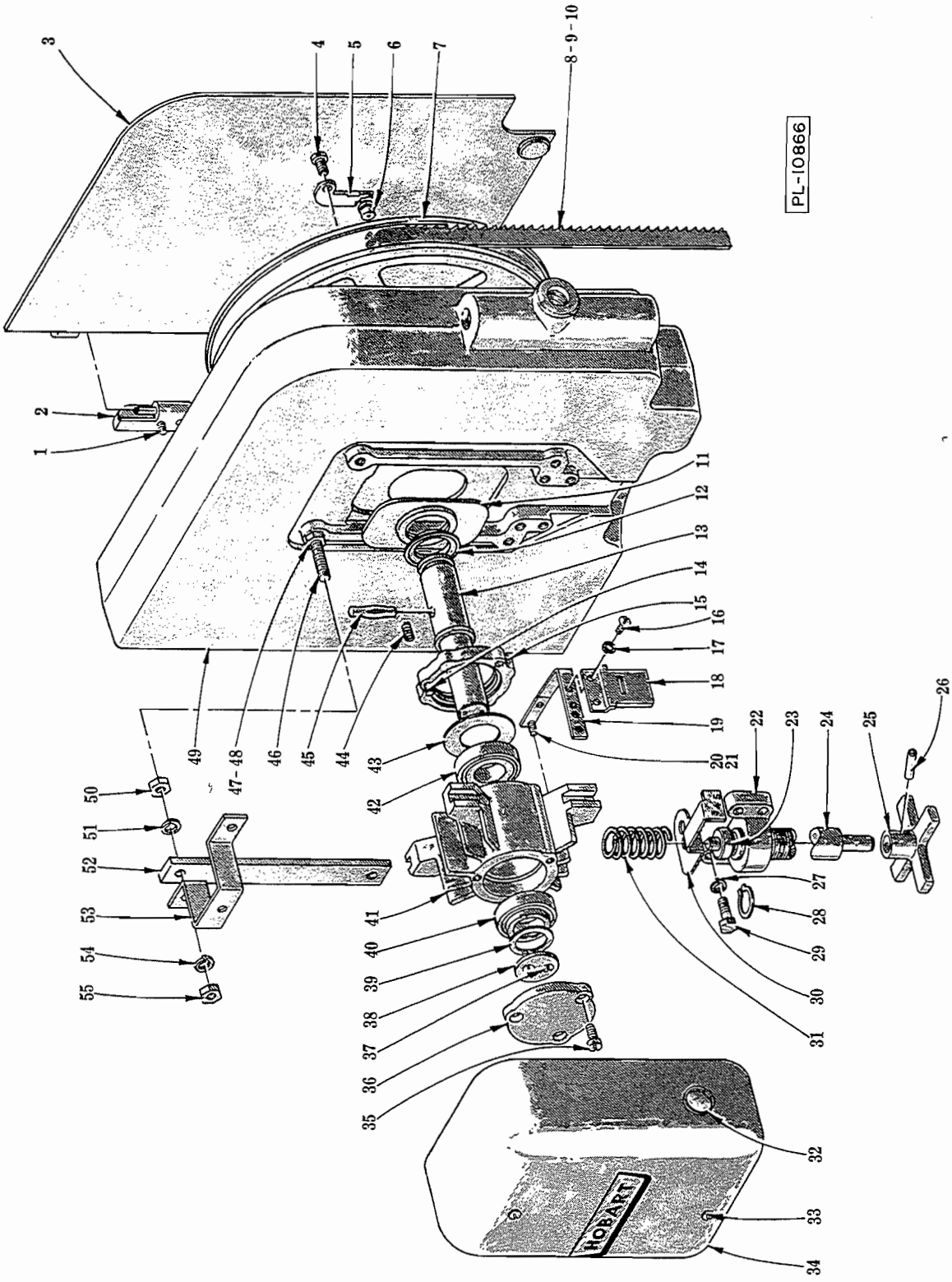
PL-12235

BASE UNIT

BASE UNIT

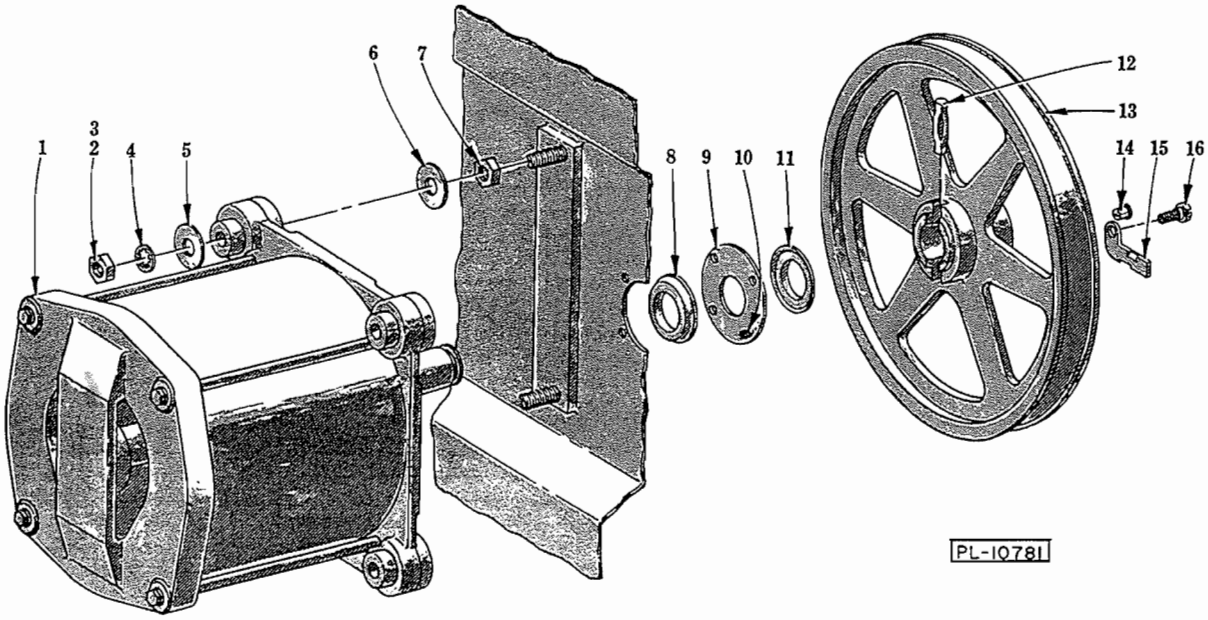
ILLUS. PL-12235	PART NO.	NAME OF PART	AMT.
1	S-116774-1	Cover - Column Top (Painted Mach.)	1
2	S-116774-2	Cover - Column Top (SST Mach.)	1
3	SC-10-13	Mach. Screw - #10-24 x 3/8" Truss Hd.	2
4	SC-36-53	Fin. Bolt - 3/8"-16 x 7/8" Hex Hd.	6
5	SC-40-21	Cap Screw - 3/8"-16 x 7/8" Soc. Fil. Hd.	2
6	PB-2-28	Plug Button	2
7	WL-4-2	Lock Washer - 3/8" x .136" x .070"	6
8	WL-4-1	Lock Washer - 3/8" x .078" x .125"	2
9	SD-24-29	Self-Tapping Screw - #10-32 x 3/4" Phil. Flat Hd., "Taptite"	4
10	P-78917	Bracket - Hinge	2
11	R-78928	Blade Cover Assy.	1
12	M-68176	Clip - Spring	1
13	SC-10-48	Mach. Screw - #10-24 x 1/4" Truss Hd.	2
14	WL-8-12	Lock Washer - #10 Int. Shakeproof	2
15	SD-24-29	Self-Tapping Screw - #10-32 x 3/4" Phil. Flat Hd., "Taptite"	4
16	P-78917	Bracket - Hinge	2
17	C-102359	Clamp - Stationary	1
18	SC-62-7	Fin. Bolt - 5/16"-18 x 1/2" Hex Hd.	2
19	WS-17-16	Washer	2
20	WL-3-47	Lock Washer - 5/16" x .125" x .078"	2
21	A-102285	Rest - Table	4
22	SC-62-53	Fin. Bolt - 1/4"-20 x 1/2" Hex Hd.	4
23	WL-3-38	Lock Washer - 1/4" x .109" x .062"	4
24	B-117664	Dowel	2
25	WS-18-8	Washer	2
26	WL-4-4	Lock Washer - 3/8" x .136" x .070"	2
27	SC-62-43	Fin. Bolt - 3/8"-16 x 3/4" Hex Hd.	2
28	D-102523-1	Carriage Support Sub-Assy. (Painted Mach.)	1
29	D-102523-2	Carriage Support Sub-Assy. (SST Mach.)	1
30	SC-82-38	Carriage Bolt - 3/8"-16 x 1"	2
31	WL-4-4	Lock Washer - 3/8" x .136" x .070"	2
32	NS-13-25	Full Nut - 3/8"-16 Hex Fin.	2
33	E-102380-1	Base Door Sub-Assy. (Painted Mach.)	1
34	E-102380-2	Base Door Sub-Assy. (SST Mach.)	1
35	M-68176	Clip - Spring	1
36	SC-8-9	Mach. Screw - #10-24 x 3/8" Rd. Hd.	1
37	NS-9-22	Mach. Nut - #10-24 Hex	1
38	SC-8-9	Mach. Screw - #10-24 x 3/8" Rd. Hd.	1
39	M-23274	Knob - Door	1
40	E-102313	Pan - Meat Scrap	1
41	S-78993-1	Brace - Carriage Support (Painted Mach.)	2
42	S-78993-2	Brace - Carriage Support (SST Mach.)	2
43	SC-82-38	Carriage Bolt - 3/8"-16 x 1"	2
44	WL-4-4	Lock Washer - 3/8" x .136" x .070"	2
45	NS-13-25	Full Nut - 3/8"-16 Hex Fin.	2
46	M-74888-1	Washer - Shim (Painted Mach.)	2
47	M-74888-2	Washer - Shim (SST Mach.)	2
48	E-115151-1	Base Unit Assy. (Used without Junction Box) (Incls. items #15 & 16) (Painted Mach.)	1
49	E-115159-1	Base Unit Assy. (Used without Junction Box) (Incls. items #15 & 16) (SST Mach.)	1
50	E-115151-2	Base Unit Assy. (Used with Junction Box) (Incls. items #15 & 16) (Painted Mach.)	1
51	E-115159-2	Base Unit Assy. (Used with Junction Box) (Incls. items #15 & 16) (SST Mach.)	1
52	SC-46-98	Set Screw - #10-24 x 1/4" Hdls., Cup Pt.	4
53	B-103193	Gasket (Short)	2
54	SD-24-27	Self-Tapping Screw - #10-32 x 3/8" Phil. Pan Hd., "Taptite"	14
55	A-110386-1	Motor Access Panel & Gasket Assy. (Painted Mach.) (Incls. items #53 & 57)	1
56	A-110386-2	Motor Access Panel & Gasket Assy. (SST Mach.) (Incls. items #53 & 57)	1
57	B-103192	Gasket (Long)	2
58	M-77217-1	Foot & Stud Assy.	4



HEAD UNIT

HEAD UNIT

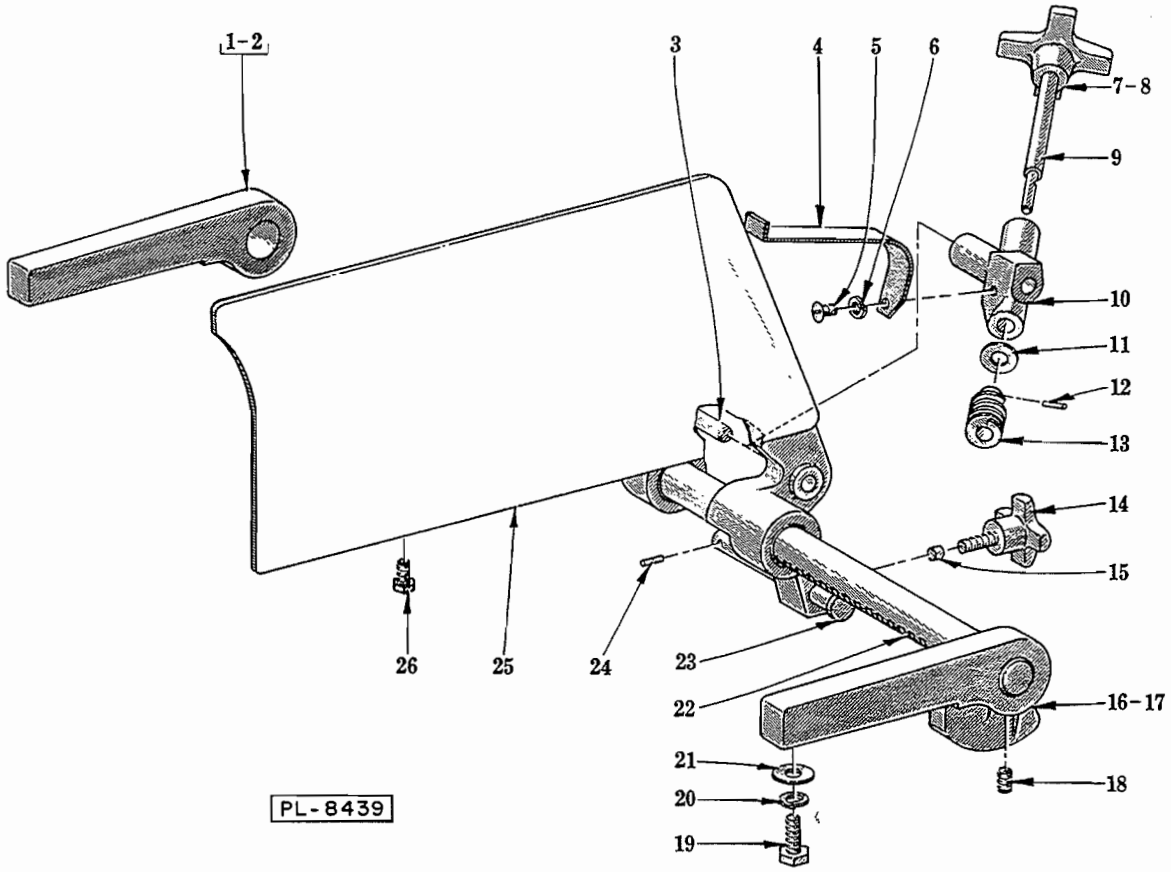
ILLUS. PL-10866	PART NO.	NAME OF PART	AMT.
1	SC-20-15	Mach. Screw - #10-24 x 7/8" Phil. Flat Hd.	4
2	P-78917	Bracket - Hinge	2
3	D-102542	Door Sub-Assy. (Head)	1
4	M-20851	Screw - Latch	1
5	M-20852	Latch	1
6	M-79686	Catch - Friction	1
7	A-108224-2	Flanged Pulley (Blade) Sub-Assy. Unit (Incls. items #4, 5 & 6)	1
8	P-81984	Blade - Meat Saw (.020"-4T) (Standard)	1
9	B-103076	Blade - Meat Saw (.020"-3T) (Frozen Beef/Fish)	1
10	B-103077	Blade - Meat Saw (.014"-3T) (Frozen Fish)	1
11	B-103288	Shield - Bearing Carrier	1
12	A-103178	Seal	1
13	C-108226	Shaft - Upper Bearing Carrier	1
14	SC-12-69	Mach. Screw - 1/4"-20 x 1/2" Fil. Hd.	3
15	B-103029	Cap - Upper Bearing Carrier (Pulley)	1
16	SC-7-71	Mach. Screw - #10-24 x 1/4" Rd. Hd.	2
17	WL-3-22	Lock Washer - #10 x .055" x .040"	2
18	P-67249	Plate - Blade Tension Sight	1
19	P-75817	Bracket - Tension Indicator	1
20	SC-90-45	Fin. Bolt - #10-24 x 3/8" Hex Hd.	2
21	WL-3-22	Lock Washer - #10 x .055" x .040"	2
22	P-75897	Nut - Blade Tension Adjusting	1
23	BB-13-1	Thrust Bearing - Nice #603	1
24	P-71751	Screw - Blade Tension Adjusting	1
25	P-79756	Wheel - Hand	1
26	PG-7-18	Groov-Pin - Type #5, 1/4" x 1"	1
27	WL-3-44	Lock Washer - 5/16" x .125" x .078"	4
28	RR-4-8	Retaining Ring	1
29	SC-36-28	Fin. Bolt - 5/16"-18 x 1-1/4" Hex Hd.	4
30	P-75816	Indicator - Tension	1
31	M-20867	Spring - Adj. Blade Tension	1
32	M-75656	Window Unit	1
33	SC-10-36	Mach. Screw - #10-24 x 5/8" Truss Hd.	2
34	R-75883	Cover & Window Sub-Assy. (Incls. item #32)	1
35	SC-12-69	Mach. Screw - 1/4"-20 x 1/2" Fil. Hd.	3
36	P-67210	Cap - Upper Bearing Carrier	1
37	SC-99-4	Mach. Screw - #10-24 x 1/2" Flat Hd.	2
38	M-67241	Retainer - Bearing	1
39	A-103036	Washer - Shim	As Reqd.
40	BR-2-27	Roller Bearing - Cone & Cup Assy.	1
41	D-103022	Carrier - Upper Bearing	1
42	BR-2-27	Roller Bearing - Cone & Cup Assy.	1
43	B-103290	Plate - Bearing Carrier	1
44	M-75837	Spring - Detent	2
45	B-110551	Groov-Pin - Special	1
46	M-75894	Stud - Upper Bearing Carrier Support	4
47	NS-13-22	Full Nut - 3/8"-16 Hex Fin.	4
48	WL-4-2	Lock Washer - 3/8" x .136" x .070"	4
49	D-102526	Head & Magnetic Catch Sub-Assy.	1
50	NS-13-22	Full Nut - 3/8"-16 Hex Fin.	4
51	WL-4-2	Lock Washer - 3/8" x .136" x .070"	4
52	P-67187	Gib - Upper Bearing Carrier	2
53	P-67147	Cover Bracket & Weld Nut Assy.	2
54	WL-4-2	Lock Washer - 3/8" x .136" x .070"	4
55	NS-13-22	Full Nut - 3/8"-16 Hex Fin.	4
	C-108227	Upper Bearing Carrier Assy. (Incls. items #11, 12, 13, 14, 15, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44 & 45)	1



MOTOR AND PULLEY UNIT

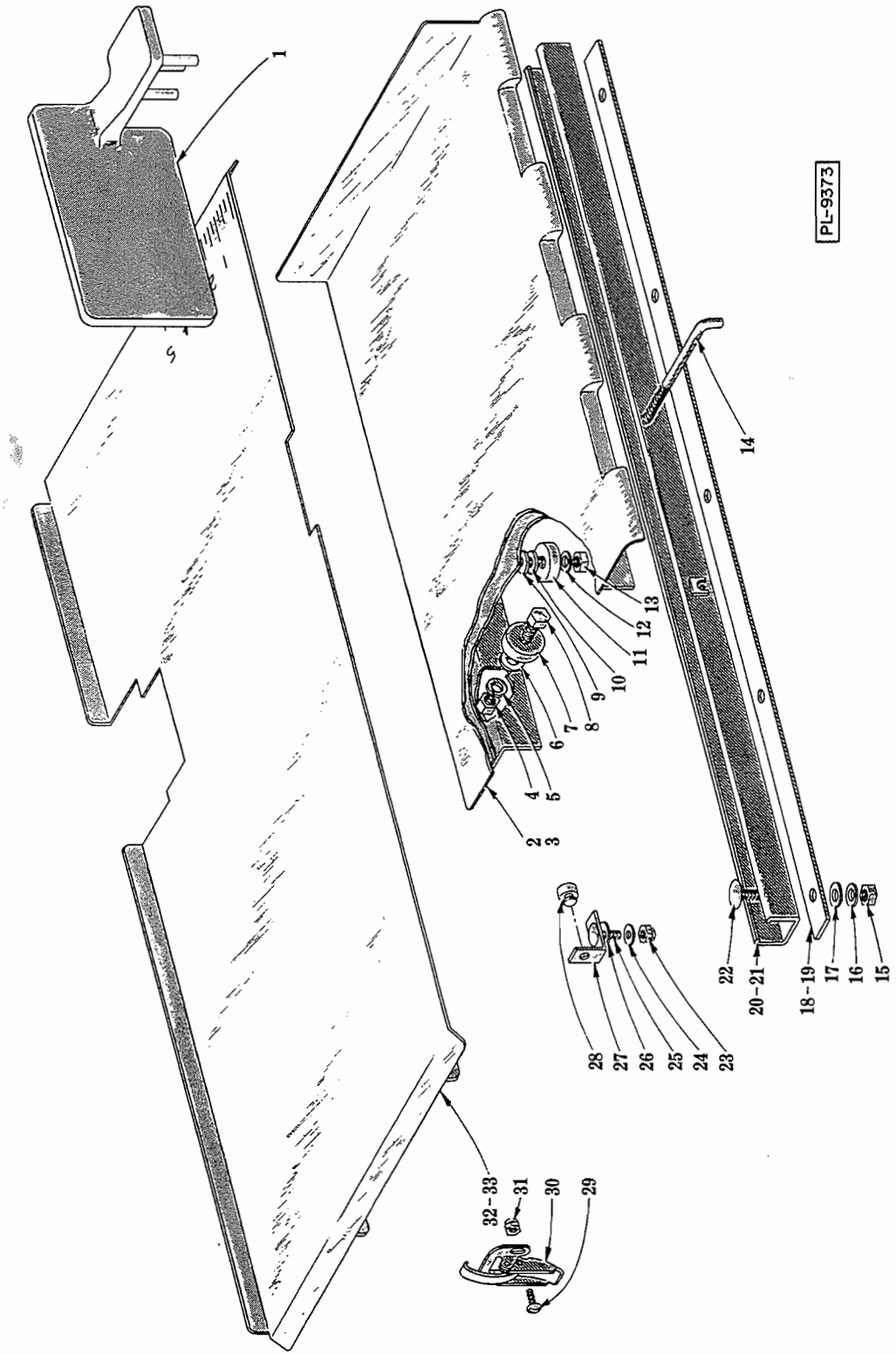
ILLUS. PL-10781	PART NO.	NAME OF PART	AMT.
1	---	Motor (see separate Motor Parts Sheet)	1
*2	NS-41-9	Lock Nut - 1/2"-13 "Eslok"	4
,*3	NS-13-30	Full Nut - 1/2"-13 Hex Fin.	4
,*4	WL-8-31	Lock Washer - 1/2" Int. Shakeproof	4
*5	WS-8-30	Washer	4
*6	WS-8-30	Washer	4
7	NS-13-30	Full Nut - 1/2"-13 Hex Fin.	4
8	A-103178	Seal	1
9	B-103205	Plate - Wear	1
10	SC-68-12	Mach. Screw - #10-32 x 5/16" Trimmed Hex Hd.	4
11	A-103178	Seal	1
12	B-110551	Groov-Pin - Special	1
13	A-108224-2	Flanged Pulley (Blade) Sub-Assy. Unit (Incls. items #14, 15 & 16)	1
14	M-79686	Catch - Friction	1
15	M-20852	Latch	1
16	M-20851	Screw - Latch	1

*1 Ph., 60 Hz., 875 R.P.M. (& 50 Hz., 700 R.P.M.)
**1 Ph., 60 Hz., 1725 R.P.M. (& 50 Hz., 1425 R.P.M.)
***3 Ph., 60 Hz., 875 & 1725 R.P.M. (& 50 Hz., 700 & 1425 R.P.M.)



GAGE PLATE UNIT

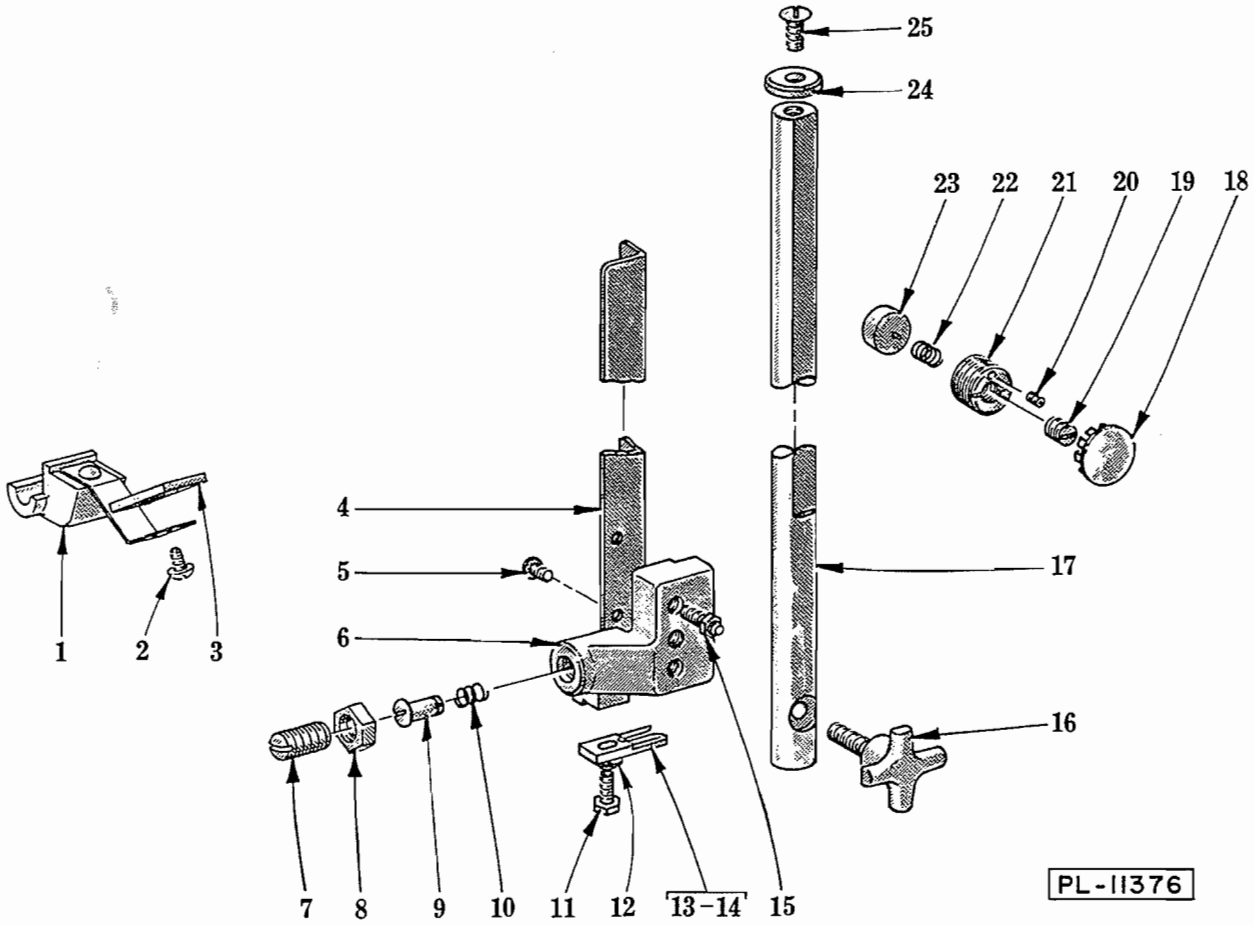
ILLUS. PL-8439	PART NO.	NAME OF PART	AMT.
1	R-77958-1	Bracket - Gage Plate Support (Rear) (Painted Mach.)	1
2	R-77958-2	Bracket - Gage Plate Support (Rear) (SST Mach.)	1
3	M-77235	Pin	1
4	P-77848	Spring - Gage Plate	1
5	SC-21-14	Mach. Screw - #8-32 x 3/8" Rd. Hd.	1
6	WL-6-1	Lock Washer - #8 x .047" x .031"	1
7	B-103860	Knob	1
8	SC-103-6	Set Screw - #10-24 x 1/4" Soc. Hdls., Kn. Cup Pt.	1
9	M-77843	Shaft - Worm	1
10	M-83481	Worm Bracket & Bearing Sub-Assy.	1
11	WS-18-36	Washer	1
12	PG-7-7	Groov-Pin - Type #5, 1/8" x 7/16"	1
13	M-20887	Worm	1
14	A-102432-1	Knob - Positioning	1
15	M-78920	Slug	1
16	R-78915-1	Bracket - Gage Plate Support (Front) (Painted Mach.)	1
17	R-78915-2	Bracket - Gage Plate Support (Front) (SST Mach.)	1
18	SC-47-37	Set Screw - 5/16"-18 x 3/8" Soc. Hdls., Kn. Cup Pt.	2
19	SC-62-44	Fin. Bolt - 5/16"-18 x 3/4" Hex Hd.	4
20	WL-3-47	Lock Washer - 5/16" x .125" x .078"	4
21	WS-17-16	Washer	4
22	P-77841-1	Rack - Gage Plate	1
23	M-85397	Gaging Pin	1
24	PG-7-36	Groov-Pin - Type #5, 7/64" x 7/16"	1
25	R-102877-1	Gage Plate & Bushing Sub-Assy.	1
26	M-79155	Fin. Mach. Bolt (Special)	1
	S-103353-1	Gage Plate Assy. (Incls. items #3 thru 15 and 23, 24, 25 & 26)	1
	P-77846	Worm Bracket Sub-Assy. (Incls. items #4 thru 13)	1



TABLE, CARRIAGE AND TRACK UNIT

TABLE, CARRIAGE AND TRACK UNIT

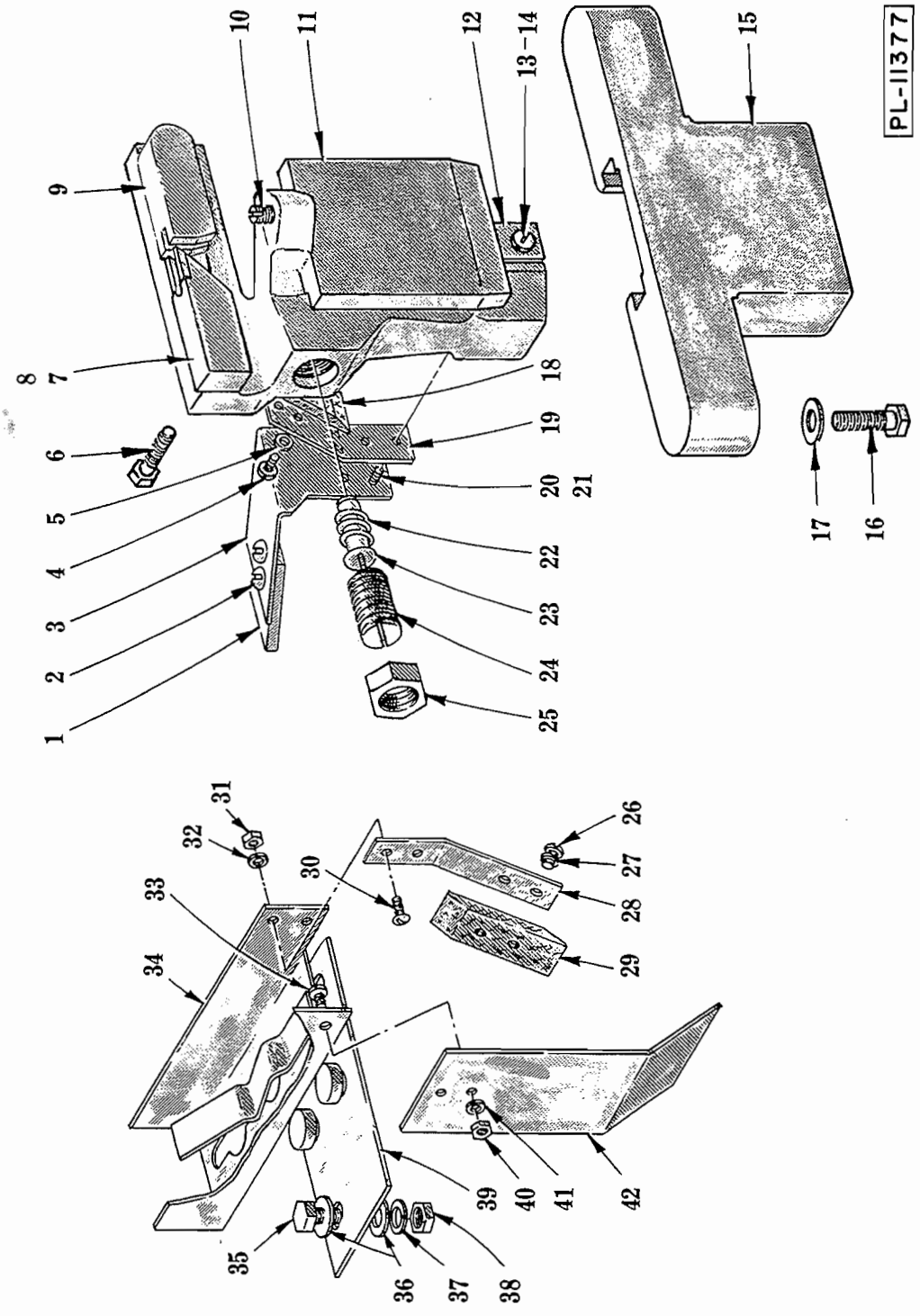
ILLUS. PL-9373	PART NO.	NAME OF PART	AMT.
1	P-77576-1	Pusher Plate Assy.	1
2	R-77955-1	Carriage Sub-Assy. (Painted Mach.)	1
3	R-77955-2	Carriage Sub-Assy. (SST Mach.)	1
4	NS-13-25	Full Nut - 3/8"-16 Hex Fin.	4
5	WL-4-4	Lock Washer - 3/8" x .136" x .070"	4
6	WS-18-5	Washer	4
7	BB-8-4	Ball Bearing - Nice #8070	4
8	SC-37-73	Fin. Bolt - 3/8"-16 x 1" Hex Hd.	4
9	WS-18-14	Washer (3/64" thk.)	2
10	WS-18-12	Washer (.010" thk.)	As Reqd.
11	BB-8-4	Ball Bearing - Nice #8070	2
12	WL-4-4	Lock Washer - 3/8" x .136" x .070"	2
13	NS-13-25	Full Nut - 3/8"-16 Hex Fin.	2
14	M-78935-1	Screw - Carriage Lock	1
15	NS-13-14	Full Nut - 5/16"-18 Hex Fin.	5
16	WL-3-47	Lock Washer - 5/16" x .125" x .078"	5
17	WS-17-16	Washer	5
18	P-78994-1	Spacer (Painted Mach.)	1
19	P-78994-2	Spacer (SST Mach.)	1
20	R-78989-1	Carriage Guide Sub-Assy. (Painted Mach.)	1
21	R-78989-2	Carriage Guide Sub-Assy. (SST Mach.)	1
22	SC-94-20	Carriage Bolt - 5/16"-18 x 1"	5
23	NS-32-12	Stop Nut - 5/16"-18 "Flexloc"	2
24	M-70087	Washer - Spring	2
25	SC-94-20	Carriage Bolt - 5/16"-18 x 1"	2
26	WS-18-12	Washer	2
27	P-86049	Stop - Carriage	2
28	M-77318	Bumper - Carriage Stop	2
29	SC-10-13	Mach. Screw - #10-24 x 3/8" Truss Hd.	2
30	M-67319	Clamp - Table	1
31	NS-31-10	Stop Nut - #10-24 "Elastic"	2
32	D-102348-1	Table Assy. (Painted Mach.)	1
33	D-102348-2	Table Assy. (SST Mach.)	1
	M-78022-1	Carriage Unit Assy. (Incls. items #2 and 4 thru 14) (Painted Mach.)	1
	M-78022-2	Carriage Unit Assy. (Incls. items #3 thru 14) (SST Mach.)	1



UPPER GUIDE, GUARD AND PULLEY WIPER UNIT

UPPER GUIDE, GUARD AND PULLEY WIPER UNIT

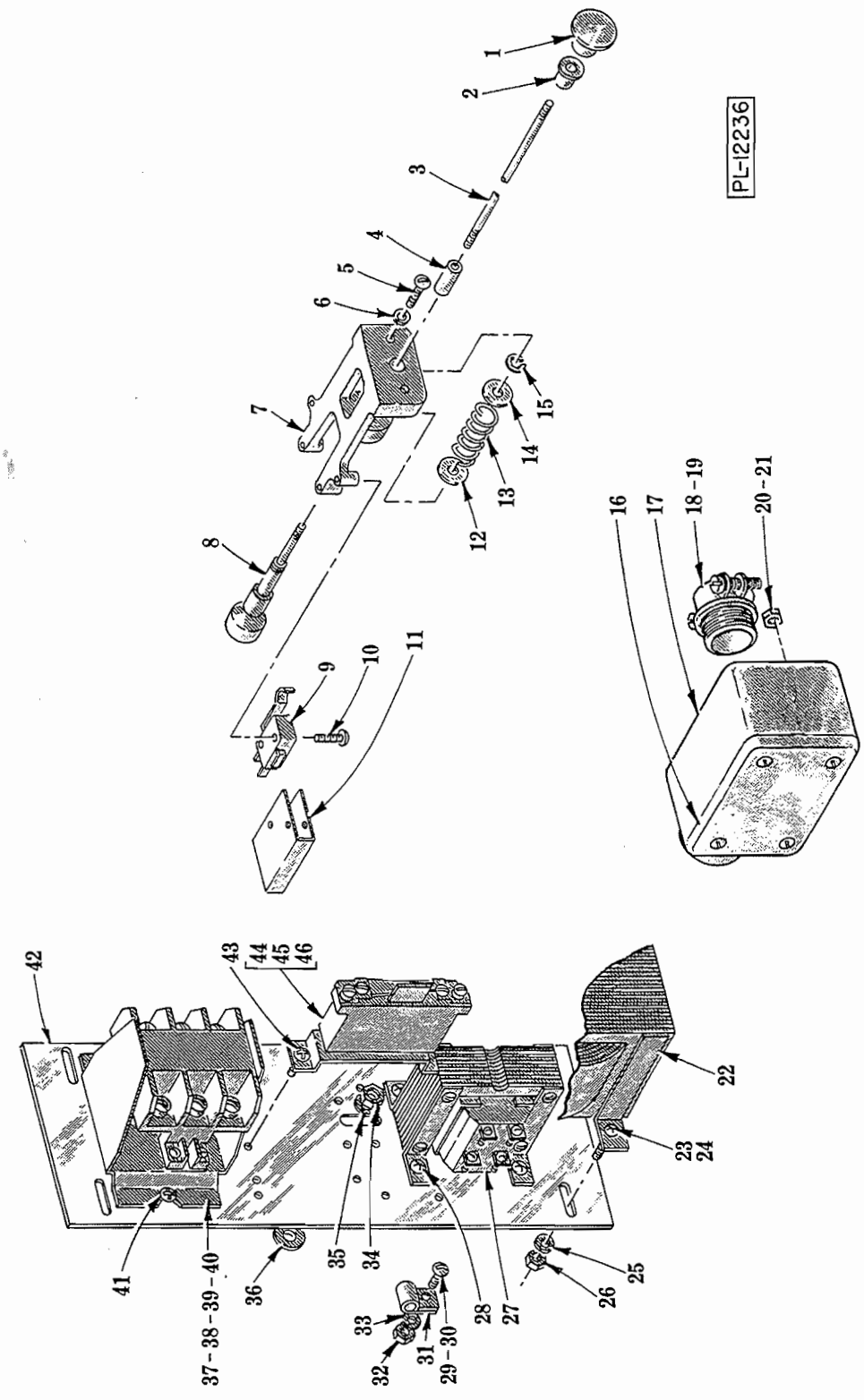
ILLUS. PL-11376	PART NO.	NAME OF PART	AMT.
1	B-102399	Upper Pulley Wiper Assy. (Incls. items #2 & 3)	1
2	SC-53-1	Mach. Screw - #10-24 x 1/4" Truss Hd.	2
3	A-101928	Wiper - Upper Pulley	1
4	P-71397-1	Guard - Upper Guide Blade	1
5	SC-10-13	Mach. Screw - #10-24 x 3/8" Truss Hd.	2
6	B-113863	Upper Guide Support & Bushing Sub-Assy.	1
7	SC-49-22	Set Screw - 9/16"-18 x 7/8" Hdls., Flat Pt.	1
8	NS-18-33	Jam Nut - 9/16"-18 Hex Fin.	1
9	M-101924	Blade Back Up Block Sub-Assy.	1
10	M-101925	Spring - Back Up Block	1
11	SC-67-6	Mach. Screw - #10-24 x 1/2" Trimmed Hex Hd.	1
12	A-104573	Washer - Belleville	1
13	P-101929-4	Guide - Blade (.020" Blade)	1
14	P-101929-2	Guide - Blade (.014" Blade)	1
15	A-102322	Screw - Adjusting	2
16	A-102432-2	Knob - Positioning	1
17	B-102321-2	Rod - Slide	1
18	PB-2-26	Plug Button	1
19	SC-63-33	Set Screw - 3/8"-16 x 3/8" Hdls., Flat Pt.	1
20	SC-47-74	Set Screw - #8-32 x 1/4" Soc. Hdls., Cup Pt.	1
21	M-75864	Screw - Slide Rod Adjusting	1
22	M-75866	Spring - Slide Rod Adjusting	1
23	M-75865	Shoe - Slide Rod	1
24	M-69849	Stop - Slide Rod	1
25	SC-53-16	Mach. Screw - 5/16"-18 x 5/8" Truss Hd.	1
	C-113850-1	Upper Guide and Guard Sub-Assy. (.020" Blade) (Incls. items #4, 5, 6, 7, 8, 9, 10, 11, 12, 13 & 15)	1
	C-113850-3	Upper Guide and Guard Sub-Assy. (.014" Blade) (Incls. items #4, 5, 6, 7, 8, 9, 10, 11, 12, 14 & 15)	1



LOWER WIPER AND GUIDE UNIT

LOWER WIPER AND GUIDE UNIT

ILLUS. PL-11377	PART NO.	NAME OF PART	AMT.
1	A-101928	Wiper - Blade Saw Pulley	1
2	SC-53-1	Mach. Screw - #10-24 x 1/4" Truss Hd.	2
3	M-101934	Bracket - Scraper Pivot	1
4	SC-21-85	Mach. Screw - #8-32 x 3/16" Rd. Hd.	4
5	WL-6-1	Lock Washer - #8 x .047" x .031"	4
6	SC-41-61	Fin. Bolt - 1/4"-28 x 3/4" Hex Hd.	2
7	B-109142-4	Guide - Saw Blade (.020" Blade)	1
8	B-109142-2	Guide - Saw Blade (.014" Blade)	1
9	A-102653	Guard - Saw Blade	1
10	SC-83-6	Set Screw - #10-24 x 5/8" Hdls., Cup Pt. "Long-Lok"	1
11	A-113184	Lower Wiper Support & Bushing Sub-Assy.	1
12	B-110254	Spring - Scraper Blade	1
13	SC-21-14	Mach. Screw - #8-32 x 3/8" Rd. Hd.	2
14	WL-6-1	Lock Washer - #8 x .047" x .031"	2
15	R-77959	Slideway - Wiper Bracket	1
16	SC-37-75	Fin. Bolt - 5/16"-18 x 3/4" Hex Hd.	2
17	WS-17-16	Washer	2
18	B-110253	Scraper - Blade	2
19	B-110254	Spring - Scraper Blade	1
20	SC-21-14	Mach. Screw - #8-32 x 3/8" Rd. Hd.	2
21	WL-6-1	Lock Washer - #8 x .047" x .031"	2
22	M-101925	Spring - Back Up Block	1
23	M-101924	Blade Back Up Block Sub-Assy.	1
24	SC-49-22	Set Screw - 9/16"-18 x 7/8" Hdls., Flat Pt.	1
25	NS-18-33	Jam Nut - 9/16"-18 Hex Fin.	1
26	SC-21-85	Mach. Screw - #8-32 x 3/16" Rd. Hd.	4
27	WL-6-1	Lock Washer - #8 x .047" x .031"	4
28	B-110254	Spring - Scraper Blade	2
29	B-110253	Scraper - Blade	2
30	SC-21-91	Mach. Screw - #8-32 x 5/16" Rd. Hd.	2
31	NS-11-12	Mach. Nut - #8-32 Hex	2
32	WL-6-1	Lock Washer - #8 x .047" x .031"	2
33	SC-21-91	Mach. Screw - #8-32 x 5/16" Rd. Hd.	2
34	P-78854	Wiper Bracket & Spring Sub-Assy.	1
35	SC-62-54	Fin. Bolt - 1/4"-20 x 3/4" Hex Hd.	2
36	WS-3-45	Washer	4
37	WL-3-38	Lock Washer - 1/4" x .109" x .062"	2
38	NS-13-2	Full Nut - 1/4"-20 Hex Fin.	2
39	M-78857	Rear Wiper Base Sub-Assy.	1
40	NS-11-12	Mach. Nut - #8-32 Hex	2
41	WL-6-1	Lock Washer - #8 x .047" x .031"	2
42	M-78860	Deflector - Meat	1
	C-113869-1	Lower Guide & Wiper Assy. (.020" Blade) (Incls. items #1, 2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 13, 14, 18, 19, 20, 21, 22, 23, 24 & 25)	1
	C-113869-2	Lower Guide & Wiper Assy. (.014" Blade) (Incls. items #1, 2, 3, 4, 5, 6, 8, 9, 10, 11, 12, 13, 14, 18, 19, 20, 21, 22, 23, 24 & 25)	1
	B-104349	Rear Wiper Sub-Assy. (Incls. items #26, 27, 28, 29, 30, 31, 32, 33, 34, 40, 41 & 42)	1

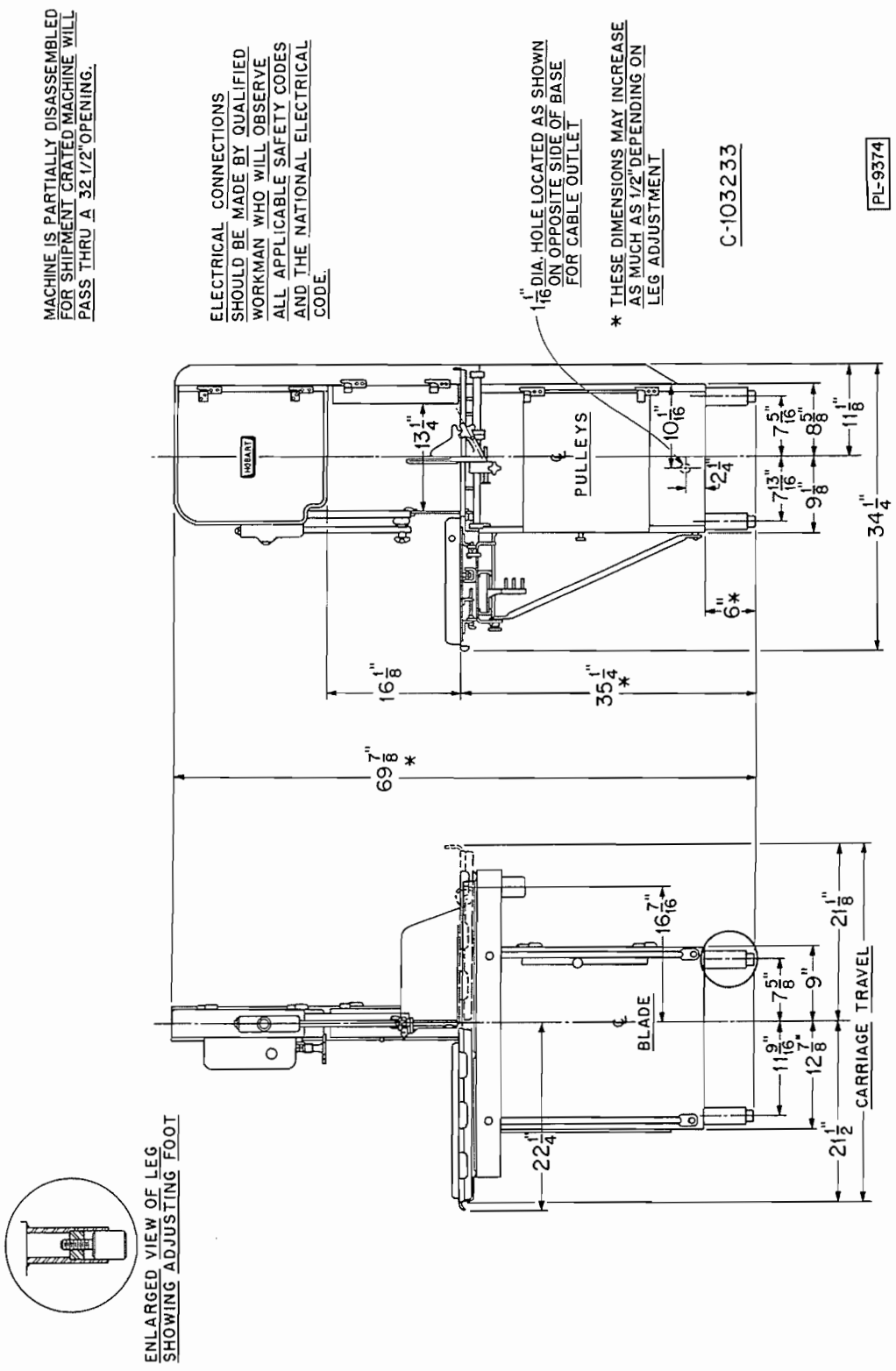


ELECTRICAL UNIT

ELECTRICAL UNIT

ILLUS. PL-12236	PART NO.	NAME OF PART	AMT.
1	M-86163-1	Knob - Switch	1
2	M-80538-2	Bushing - Switch Rod	1
3	B-114321-2	Extension - Switch Rod	1
4	B-114322	Connector - Switch Rod	1
5	SC-10-36	Mach. Screw - #10-24 x 5/8" Truss Hd.	2
6	WL-6-7	Lock Washer - #10 x .062" x .047"	2
7	D-113860	Bracket - Switch Mounting	1
8	B-113859	Switch Operating Rod Assy.	1
9	B-87711-133	Switch	2
10	SC-60-40	Mach. Screw - #4-40 x 5/8" Rd. Hd.	4
11	B-114876	Insulator - Switch	2
12	WS-3-35	Washer	1
13	B-113856	Spring - Detent	1
14	WS-3-35	Washer	1
15	RR-10-1	Retaining Ring	1
16	FE-4-21	Cover - Junction Box	1
17	P-69853	Box - Junction	1
18	FE-2-33	Connector - Straight (3/4" Male Thd. x 3/4" Flex. Cnd.)	1
19	FE-7-12	Lock Nut - 3/4" Cnd.	1
20	SC-9-61	Mach. Screw - #8-32 x 1/2" Rd. Hd.	1
21	NS-9-12	Mach. Nut - #8-32 Hex	1
22	R-83449	Transformer (380 V. to 115 V.)	1
23	SD-15-40	Self-Tapping Screw - #8-32 x 3/8" Phil. Pan Hd. "Taptite"	2
24	SC-9-61	Mach. Screw - #8-32 x 1/2" Rd. Hd.	2
25	WL-3-12	Lock Washer - #8 x .055" x .040"	2
26	NS-9-12	Mach. Nut - #8-32 Hex	2
27	B-101935	Transformer (440 V. to 115 V.)	1
28	SD-15-40	Self-Tapping Screw - #8-32 x 3/8" Phil. Pan Hd. "Taptite"	4
29	SD-8-43	Self-Tapping Screw - #8 x 3/8" Phil. Rd. Hd., Type B	1
30	SC-9-61	Mach. Screw - #8-32 x 1/2" Rd. Hd.	2
31	M-78752-2	Clamp	3
32	NS-9-12	Mach. Nut - #8-32 Hex	2
33	WL-3-12	Lock Washer - #8 x .055" x .040"	2
34	NS-13-2	Full Nut - 1/4"-20 Hex Fin.	2
35	WL-3-38	Lock Washer - 1/4" x .109" x .062"	2
36	WS-17-10	Washer	2
37	A-117128-1	Contactor & Screw Assy. (208-230 V., 60 Hz.; 220 V., 50 Hz., 1 Ph.) (Incls. item #41)	1
38	A-117128-2	Contactor & Screw Assy. (115 V., 50/60 Hz., 1 Ph.) (Pilot Circuit) (Incls. item #41)	1
39	A-117124-1	Contactor & Screw Assy. (208-230 V., 60 Hz.; 220 V., 50 Hz., 3 Ph.) (Incls. item #41)	1
40	A-117124-2	Contactor & Screw Assy. (115 V., 50/60 Hz., 3 Ph.) (Pilot Circuit) (Incls. item #41)	1
41	SD-15-20	Self-Tapping Screw - #10-32 x 3/8" Phil. Pan Hd. "Taptite"	2
42	D-113861	Panel - Control	1
*43	SD-15-40	Self-Tapping Screw - #8-32 x 3/8" Phil. Pan Hd. "Taptite"	As Reqd.
*44	A-117127	Thermal Overload Relay & Screw Assy. (1 Ph.) (Incls. item #43)	1
*45	A-117127	Thermal Overload Relay & Screw Assy. (3 Ph.) (Incls. item #43)	3
*46	**	Heater Element - Overload Relay (Give Elec. Spec. & Mach. Model)	As Reqd.

*Use with Overload Protection.
**Hobart service technician to use Starter Element Part No. as listed on Starter Parts Sheet.



INSTALLATION DIAGRAM