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OPERATING INSTRUCTIONS

AND PARTS LIST FOR

PARKS

12" THICKNESS PLANER

IMPORTANT: This list is valuable. It will enable you to secure prompt service on replacement parts and avoid unnecessary correspondence with our factory. We suggest that you keep it filed away with other valuable papers.

THE PARKS WOODWORKING MACHINE COMPANY

Manufacturers of Quality Woodworking Machines Since 1887

Cincinnati, Ohio 45223

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OPERATING AND MAINTENANCE INSTRUCTIONS FOR PARKS 12-INCH PLANER

Your Parks Planer is completely assembled and adjusted at the factory. Check all bolts, nuts and set screws as some may have been loosened in shipment.

Check motor nameplate or wiring diagram and switch for proper voltage connection. Run motor without load to check for proper rotation (clockwise). The planer will plane material up to 12 inches wide by 4 inches thick. Maximum cut is 1/8 inch. It will take pieces as short as 6 inches and as thin as 1/16 inch.

Recommended horsepower is 1 h.p. to 3 h.p. depending on application. A 2 h.p. motor for average to heavy work is desirable. With 1725 r.p.m. motor use a 7-inch diameter pulley or with 3450 r.p.m. motor, use a 3.5-inch diameter pulley. Dual groove pulleys and matched Vee belts are recommended.

An exhaust system is recommended, particularly when planer is used in production work and there is a sizable buildup of shavings.

IMPORTANT SAFETY RULES

Before operating planer be sure that:

Knives are secure in the cutterhead.

There are no objects on the planer table.

The workpiece is free of nails or other foreign material.

You have proper support behind machine for long workpieces.

You stop the machine before attempting to dislodge stuck pieces.

SAFETY PRECAUTIONS

Never force work – allow machine to cut at its own rate.

Keep your hands away from the feed rolls and cutterhead.

Feed work from the side: never directly behind the workpiece.

Always stand to the side when removing finished board.

Wear safety glasses or shield when operating any power tool.

Keep work area clean and uncluttered.

Do not talk or be distracted while operating the planer.

Dress properly – no gloves, dangling jewelry, sleeves, hair, etc.

OPERATING THE PLANER

Read safety rules carefully before operating planer.

Switch on the motor to start the cutterhead and motor drive. The machine should be in gear so that both power feed rolls are turning.

NOTE: Use throwout lever to stop feed rolls only in case of emergency.

Place the board to be planed on the table with the leading edge just under the in-feed roll. Raise the table slowly by means of the handwheel until the in-feed roll pulls the board into the planer. This first pass may or may not result in light planing of the board.

Raise the table again by turning the handwheel one full turn. By observing, you will determine just how much stock was taken off by the full turn of the handwheel and when making subsequent passes you can better determine how much the handwheel should be turned to give you the desired thickness of cut. 1/8 inch cut per pass is maximum for the 12 inch planer, however, size of motor, width and hardness of wood will determine whether 1/8 inch can be taken in one pass.

LUBRICATION

The gear box should be lubricated with 1 lb. of soft grease. We suggest Exxon Lidok EP 1 or equivalent. The ball bearings are alemite fitted and should be lubricated about two times a year with standard bearing grease. Table roll bearings and feed roll bearings should be oiled every day or two if planer is used continuously. S.A.E. 30 oil is suggested.

ADJUSTMENTS

Adjustments of power feed rollers and pressure bar are made by turning thin adjusting nuts A-74 after loosening top lock nuts A-49. To reset these place parallel pieces of wood or metal blocks on each side of table and raise the table until the knives are touching the blocks. Raise or lower both feed rollers and pressure bar until they also are touching the blocks equally with the knives. All three should now be even and parallel. Remove the blocks and lower the in-feed roller one-half turn on the adjusting nut. Lower the out-feed roller one-quarter turn only. Note: When the pressure bar is set too low it will prevent the board from following through. Table rolls should be 1/64 inch above the table surface or lower for finish work.

Trouble-shooting adjustment problems: If planed board has ridges from end to end, check accuracy of knives as one or more may not match setting of others. Also check tightness of cutterhead in bearing seats since any 'play' in this area would cause uneven planing.

If planed board has deeper cut the last few inches, check table rolls. The rear roll may be too high causing board to 'teeter' and end of board would plane deeper. Also check pressure bar – if this is too high it would allow board to lift up after end leaves the pressure of the in-feed roller.

If planed board has deeper cut at beginning and end only, check tightness of table gibs as any looseness may cause this condition. Also high table rolls may cause this.

TO LEVEL TABLE

Place parallel blocks of wood or metal on each side of the table and raise the table until the knives touch one of the blocks. To raise the low side of the table, loosen the set screw on the bevel gear (A-64) on the elevating shaft (A-62) at the opposite side of the planer. That side of the table will not raise or lower when the handwheel is turned and in this way you can bring the table up to the blocks equally on each side. Keep pressure on the handwheel when table is level until you tighten securely the loosened set screw to lock the adjustment.

RESETTING PLANER KNIVES

After knives are reground and are uniform they may be reset in the head fairly accurately by placing a shim under the length of each knife in the bottom of the slot. These shims can be pieces of wire and the thickness should correspond more or less to the amount of stock removed from grinding.

To reset knives in cutterhead with the micro-adjustment feature, hold the knives in the head with light but firm pressure on the hollow head set screws (five for each knife). Be sure all knives are tapped all the way down in the slots. Now using the socket wrench provided turn each screw under each end of the knife to raise the knife cutting edge approximately 1/8 inch above the surface of the head. Place two parallel pieces of wood on the table at the two ends of the head. Raise the table until the elevated knife just scrapes these two pieces of wood. If it does not touch equally at both ends, raise the low end (by turning the adjusting screw) until it does. In similar manner, raise and adjust both of the remaining knives until each touches the wood blocks equally. When adjustments are complete, tighten all fifteen set screws securely against the three chip breakers A-32 – then recheck your adjustments to be certain they are accurate.

To reset knives using the KS-1 knife setting device, hold knives in head as stated above – place device over head on left side and bring knife up to its center adjusting screw by turning socket head screw A-83. Repeat on right side of head. After knives are set, tighten securely all set screws. Knives may also be set using a dial indicator.

INSTRUCTIONS FOR ORDERING PARTS

All parts illustrated in figures 1 and 2 may be ordered from the factory. Screws, nuts, washers, etc. are standard items and may be purchased locally by noting the specifications listed for these parts. All prices are subject to change without notice. Minimum charge of 5.00 per order.

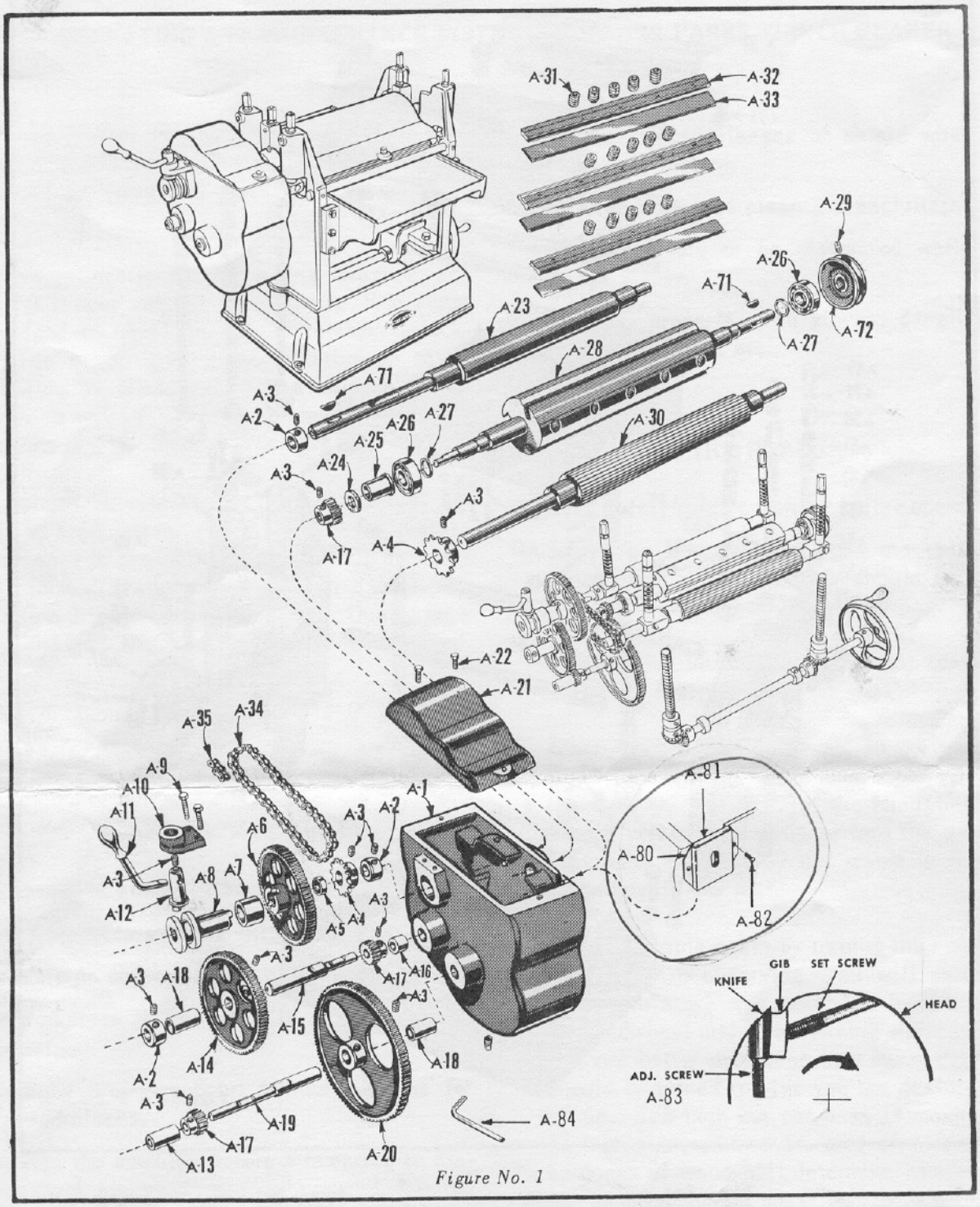

Figure No. 1

Part No.	Name of Part	Price Each
A-1	Gear box (casting only)	92.40
A-2	Shaft collar ¾" bore (3 req.)	4.20
A-3	Hollow head set screw ⅜" x ⅜" — ⅜ — 16 thread	1.10
A-4	12 tooth sprocket (2 req.)	18.10
A-5	Shaft spacer	2.60
A-6	88 tooth gear, slotted hub	22.05
A-7	Throw out sleeve bearing 1⅛" bore	7.50
A-8	Throw out sleeve	26.70
A-9	Eccentric bracket studs (2 req.)	2.05
A-10	Eccentric bracket	2.25
A-11	Throw out handle	9.15
A-12	Throw out eccentric	10.90
A-13	Lower gear shaft bearing ½" bore	7.00
A-14	88 tooth gear, plain hub	26.70
A-15	Short gear shaft	10.50
A-16	Gear shaft bear'g ½" bore	6.40
A-17	20 tooth gear (3 req.)	15.10
A-18	Gear shaft bear'g ¾" bore (2 req.)	6.40
A-19	Long gear shaft	14.40
A-20	128 tooth gear	44.10
A-21	Gear box cover	19.10
A-22	Gear box cover studs (2 req.)	1.10
A-23	Smooth feed roll	58.80
A-24	Felt washer	.50
A-25	Head shaft sleeve	6.30
A-26	Head ball bearing No. 3204 (2 req.)	9.35
A-27	Head shaft spacer	2.60
A-28	12" Head with shaft	145.00
A-29	Slotted head set screws 5/16" x 5/16" — 5/16 — 18 thread	.60
A-30	Fluted feed roll	46.30
A-31	Hollow head set screw ½" (used on head)	1.10
A-32	12" Chip breaker (3 req.)	6.80
A-33	12" High speed knives (set of 3)	45.00
A-34	Complete roller chain	7.90
A-35	Connecting link for chain	1.30
A-80	Oil seal retainer	2.20
A-81	Oil seal	.90
A-82	¼—20 x ½ rd. screw	.35
A-83	#10—32 x ⅝ screw	.35
A-84	⅛ inch soc. wrench	.35

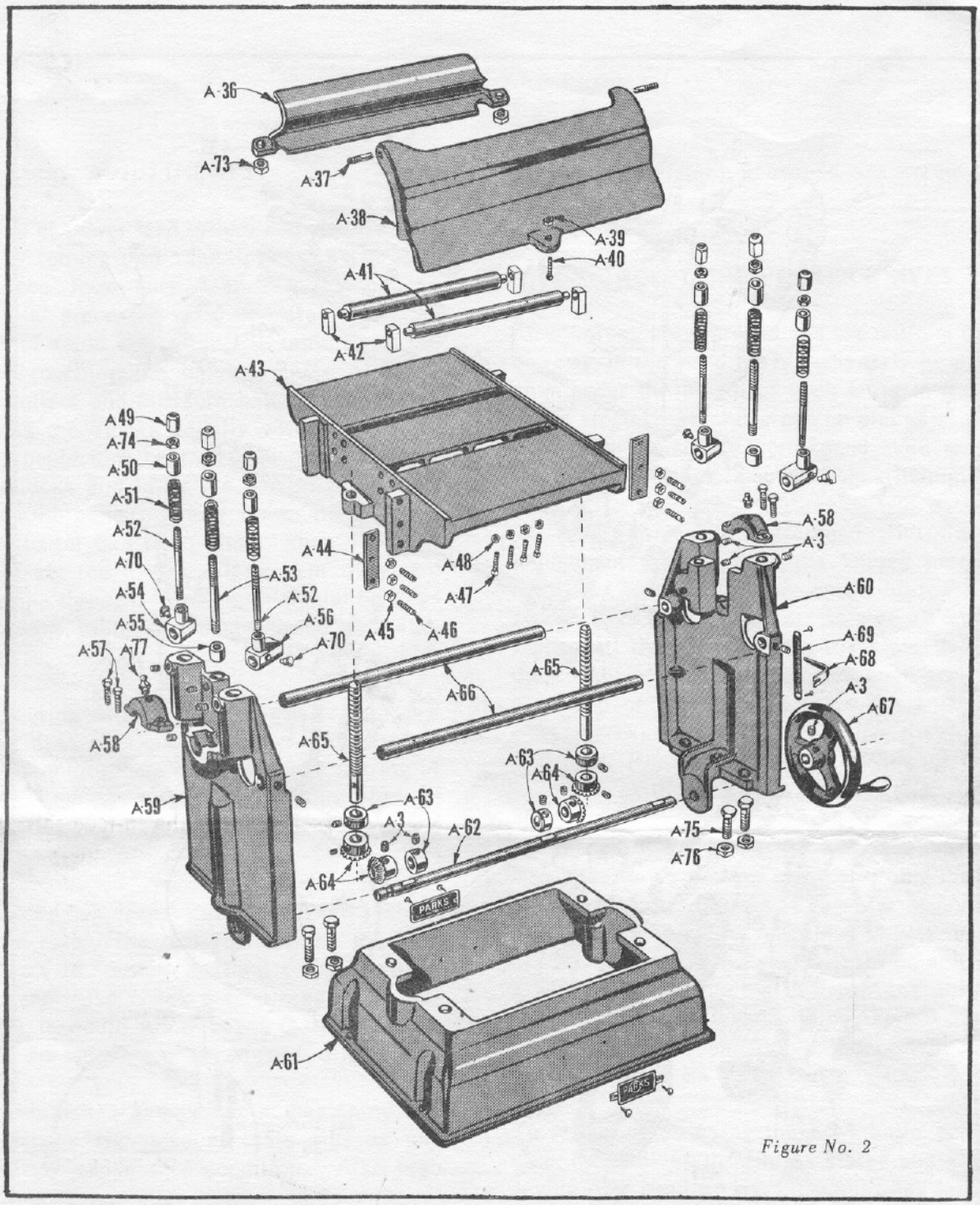

Figure No. 2

Part No.	Name of Part	Price Each
A-36	Pressure bar	22.05
A-37	Hood stud (2 req.)	1.95
A-38	Shaving hood	33.10
A-39	Lock nut for hood	.85
A-40	Adjusting stud for hood	1.55
A-41	Table roller (2 req.)	13.35
A-42	Table roll bearing (4 req.)	7.10
A-43	Table	153.30
A-44	Table gib (2 req.)	5.50
A-45	Lock nut for table gib	.85
A-46	Lock nut stud	.85
A-47	Table roller adjusting stud	.85
A-48	Lock nut for table roller	.85
A-49	5/8" hex nut 1" long 3/8 — 16 thread	4.40
A-50	Spring collar (6 req.)	7.75
A-51	Compression spring (6 req.)	4.25
A-52	Roll bearing stud (4 req.)	4.00
A-53	Pressure bar stud (2 req.)	5.30
A-54	Smooth feed roll bearing (2 req. — specify r or l)	15.10
A-55	Stud Collar (2 req.)	2.40
A-56	Fluted feed roll bearing (2 req. — specify r or l)	11.45
A-57	Bearing cap studs (2 req.)	1.70
A-58	Bearing cap (specify right or left)	13.45
A-59	Left side casting	100.40
A-60	Right side casting	100.40
A-61	Base	73.50
A-62	Elevating shaft	6.65
A-63	Shaft collar 5/8" (4 req.)	3.40
A-64	Bevel gear L102 (4 req.)	17.40
A-65	Elevating screw (2 req. — specify right or left)	5.25
A-66	Column tie rod (2 req.)	6.95
A-67	Hand wheel and handle	18.75
A-68	Depth indicator	1.10
A-69	Depth scale	1.30
A-70	1/4" oiler (4 req.)	.85

The following parts shown on figures 1 and 2 are standard and can be purchased locally

A-71	Half moon key 3/16"	.55
A-72	3" V pulley 3/4" bore	6.30
A-73	3/8" x 11/16" jam nut 5/16" thick 3/8 — 16 thread	.85
A-74	3/8" x 11/16" jam nut 3/16" thick 3/8 — 16 thread	.85
A-75	Hex head bolts 1/2" x 1 3/4" 1/2 — 13 thread	1.70
A-76	Hex nuts 1/2" x 5/16" 7/8" 1/2 — 13 thread	1.30
A-77	Alemite fitting	.85