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OPERATING INSTRUCTIONS AND PARTS LIST

for the

PARKS 20" 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 23, OHIO

JAN. 31, 1953

Instructions for Operation and Maintenance of The PARKS 20" THICKNESS PLANER

Figure No. 1

CAPACITY

The Parks No. 20 Planer will plane material up to 20 inches wide by 6 inches thick. Maximum cut is 3/8".

MOTOR RECOMMENDATIONS

The Planer is furnished with necessary pulleys and belts for installing motor in the base compartment.

A 3 to 10 horsepower motor is recommended for use with the Planer. Motor should run 1750 RPM to obtain correct cutting speed which is 3600 RPM.

LUBRICATION

Gear box should be lubricated with approximately ¼ pound of transmission grease. Shell Unedo cup grease No. 1 and Standard Oil Indiana Superla No. 39 are suitable.

Feed rollers and table rollers should be oiled daily if machine is used continuously. All moving parts should be oiled occasionally to keep them in free operating condition. Automobile engine oil SAE 30 is recommended.

ADJUSTMENTS

All adjustments are set at the factory. However, if it becomes necessary to re-set the rolls or pressure bar, the instructions below should be followed.

Smooth feed roll should be parallel with the cutting knives. This adjustment can be checked by feeding a 2" board on each side of the machine.

Pressure bar also should be parallel with cutting knives. When bar is set too low it will prevent the board from following through.

If cut becomes uneven at end of the board, it is indication that pressure bar is set too high. If "wave" appears at the beginning of the stock, the shaving hood should be lowered, by means of the adjusting screws on each side. Table rolls should be set as low as possible.

RESETTING PLANER KNIVES

The knives can be set in the following manner:

After they have been reground and are uniform, they can be re-set in the head fairly accurately by placing a shim under the length of each knife in the bottom of the slot in the head.

These shims can be pieces of wire 20" long and small in diameter. The thickness corresponds more or less to the amount of stock removed from the knife in re-grinding.

The other method consists of setting the individual knives to the table of the machine. This can be done by having the set screws, that lock the gib against the knives, drawn up just firm enough to hold the knives. This is done on all four knives. Then you place two pieces of hard wood of uniform thickness on the table at either end of the head. The table is then raised so that the knife which is set farthest out of the head, is just scraping the wood. The other knives are then raised to the level of the highest knife. This can be done by tapping lightly with something similar to a center punch at the base of the knives on either side of the head. Be sure and lock the knives securely before running the machine.

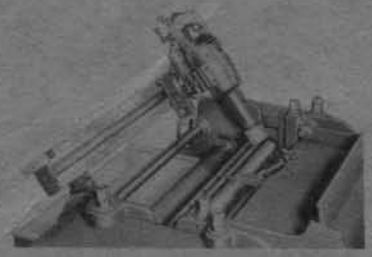
If an indicator on a stand is available, a third method may be used. This consists of setting the indicator point directly above the highest part of the cutting circle of the knives on the top of the head. Take a reading on one end of the knife and raise the other end of the knife to indicate the same. The other three knives should be tapped up to the same reading. Be sure to lock all knives securely.

GENERAL INFORMATION

Standard rate of feed for the No. 20 Planer is 20 and 40 feet per minute. The feed can be increased to 40 and 80 feet per minute by replacing the 36 tooth sprocket on the smooth feed roll with a smaller 18 tooth sprocket.

To change rate of feed, while machine is in operation, the power should be shut off and the speed of the Planer allowed to decrease. Gears will mesh easily at this point. Gears may be disengaged at any time.

Your Parks Planer is a precision built machine and should be given the best of care. If kept clean and properly lubricated, it will give many years of trouble free service.



20-G

(See Page 4 for 20" Planer Base Parts)

Figure No. 2

Part No.	Name of Part	Price Ea.
C-1	Table	$186.87
C-2	Right side casting	57.90
C-3	Left side casting	57.90
C-4	Bearing cap (right)	5.25
C-5	Bearing cap (left)	5.25
C-6	Fluted roll bearing (specify right or left)	7.08
C-7	Smooth roll bearing (specify right or left)	6.54
C-8	Table rolls	9.36
C-9	Cluster gear	22.68
C-10	Small drive gear	4.80
C-11	Large drive gear	9.45
C-12	12 tooth sprocket	6.54
C-13	20 tooth sprocket	9.60
C-14	36 tooth sprocket	12.21
C-15	Upper gear shaft	7.23
C-16	Lower gear shaft	7.23
C-17	Small bevel gear	4.45
C-18	Large bevel gear	6.27
C-19	Fluted feed roll	31.80
C-20	Smooth feed roll	19.00
C-21	20" cutter head	82.56
C-22	Gear box, casing only	35.00
C-23	Motor brackets	12.00
C-24	20" Knives (set of 4)	36.00

Part No.	Name of Part	Price Ea.
C-25	Pressure bar	28.00
C-26	Shaving hood	30.00
C-27	Hand wheel	6.39
C-28	Elevating screw (right)	11.49
C-29	Elevating screw (left)	11.49
C-30	Shifting lever	1.50
C-31	Shifting fork shaft	1.29
C-32	Adjusting nuts	.66
C-33	Pressure bar stud	.54
C-34	Roll bearing stud	.57
C-35	Spring collar, small	1.00
C-36	Spring collar, large	1.14
C-37	Shifter lever hub	2.19
C-38	Gear shifter fork	5.13
C-39	Gear shifter shoe, bronze	1.95
C-40	Tie rod	3.96
C-41	Thrust bearing No. D-5	2.70
C-42	Elevating hand wheel shaft	1.89
C-43	Table roll bearing	2.46
C-44	Table roll adjusting screw & pin	.25
C-45	Depth scale	.25
C-46	Pressure bar spacing collar	3.30
C-47	Collar ¾"	.88
C-48	Flat pulley, 18" dia.	14.73
C-49	Table strip	3.72
C-50	Gear box cover	1.00

PARKS
20" THICKNESS PLANER

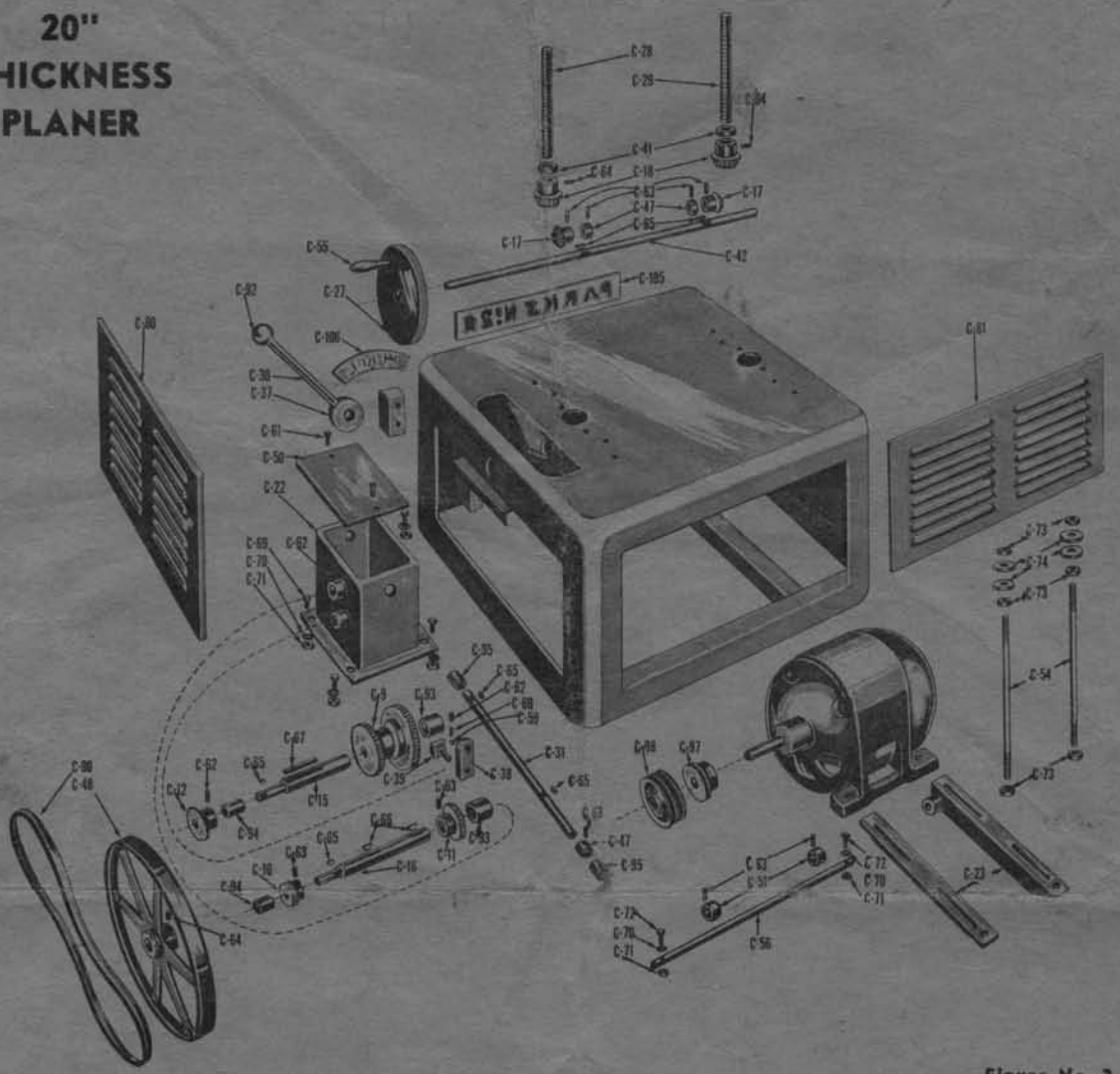


Figure No. 3

Part No.	Name of Part	Price Ea.
C-51	Collar 1"	.90
C-52	Chip breaker	3.78
C-53	Table gib	2.20
C-54	Motor adjusting rod	1.00
C-55	Stud handle	1.53
C-56	Motor hinge rod	3.27
C-57	Ball bearing 5207R	4.40
C-58	Ball bearing 6207	2.50
C-59	Steel ball	.10
C-60	Gear box spring	.10
C-61	¼" x 1" cap screw	.10
C-62	¼" x ½" half dog point set screw	.10
C-63	⅜" x ⅜" hollow head set screw	.10
C-64	⅜" x ¾" hollow head set screw	.10
C-65	Half moon key ¼" x ⅞"	.10
C-66	Half moon key ⅛" x ¾"	.10
C-67	Flat key ¼" x ¼" x 2½"	.30
C-68	½" hollow head set screw (used on head)	.35
C-69	⅜" x 1" cap screw	.20
C-70	⅜" lock washer	.10
C-71	⅜" half hex jam nut	.10
C-72	⅜" x 1½" cap screw	.10
C-73	½" hex jam nuts	.15
C-74	½" washer	.10
C-75	½" x 1¾" cap screw	.15
C-76	1" nut ½" bore	.10
C-77	⅜" x 2⅜" slotted head screw	.15
C-78	½" x 1½" hollow head set screw	.20
C-79	¼" x ¾" hollow head cap screw	.20
C-80	Base side guard	11.00
C-81	Base rear guard	11.00
C-82	Round head machine screw	.10
C-83	¼" drive oilers	.34
C-84	⅛" grease fitting	.34
C-85	⅜ x 1¼" half moon key (on head)	.20
C-86	⅜" No. 50 long drive chain	9.15
C-87	⅜" No. 50 short chain	4.00
C-88	3" spring 1" O.D.	.50
C-89	3½" spring 1¾" O.D.	1.05
C-90	No. 3700 V Belt	2.25
C-91	No. B-75 V Belt	2.25
C-92	Shifting lever knob	.90
C-93	Bronze bearing 1¼" lg. 1¼" O.D.	.78
C-94	Bronze bearing 1¼" lg. 1" O.D.	.75
C-95	Bronze bearing ¾" lg. ⅞" O.D.	.50
C-96	2TB34 head pulley	5.50
C-97	1TB34 motor pulley	3.90
C-98	2TB64 motor pulley	7.75
C-99	Thickness indicator	.25
C-100	Table roll bronze bearing 1¼" lg-1" x ¾"	.75
C-101	Belt guard	19.00
C-102	Chain guard	17.00
C-103	Head spacer	.10
C-104	Shaving hood handle, nut & washer	.50
C-105	Parks name plate	2.00
C-106	L-N-H plate	.50

No. 20-G 20" Planer Knife Grinder 190.00