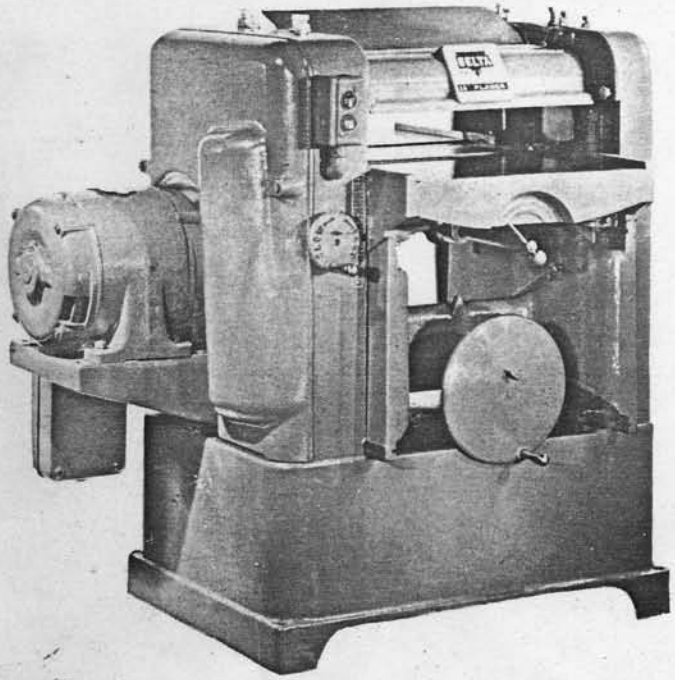
Rockwell
MANUFACTURING COMPANY
The Rockwell Building • Pittsburgh, Pa.

PM-428-02-651-5001

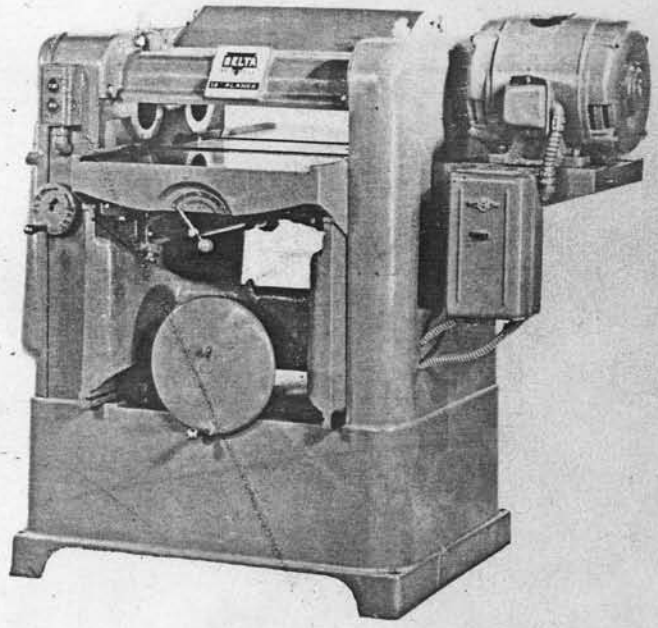
DATED IM 6-15-64

DELTA 18" PLANER

PARTS (800) 223-7278



BELT DRIVE MODEL



DIRECT DRIVE MODEL

INTRODUCTION

Like any fine woodworking machine, your Delta Planer must be installed properly and kept in adjustment.

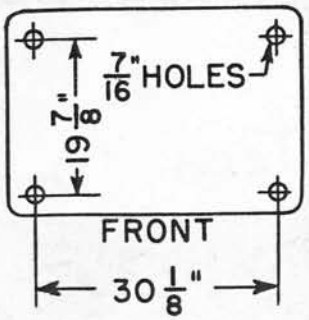
Although it was test run and adjusted at the factory, it should be thoroughly checked and readjusted if necessary.

PLEASE READ THIS ENTIRE MANUAL BEFORE INSTALLING OR OPERATING THE PLANER, so that you become thoroughly familiar with the adjustments and understand the functions of your planer.
If you do not understand any portion of these instructions, please write to:

Rockwell Manufacturing Company
Delta Power Tool Division
400 North Lexington Avenue
Pittsburgh, Pennsylvania
Attention: Service Department

INSTALLATION

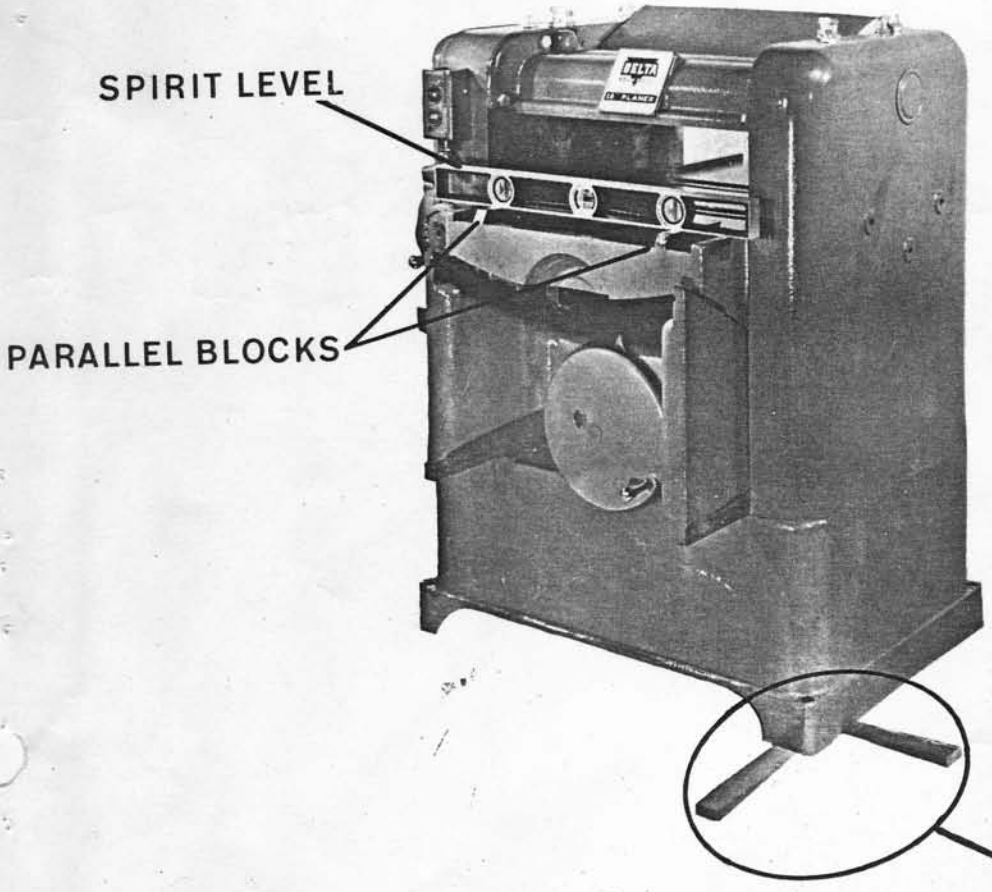
1. Select a suitable location and remove wood skids.



Anchor hole dimensions

2. Make sure Planer is level before bolting it to the floor.

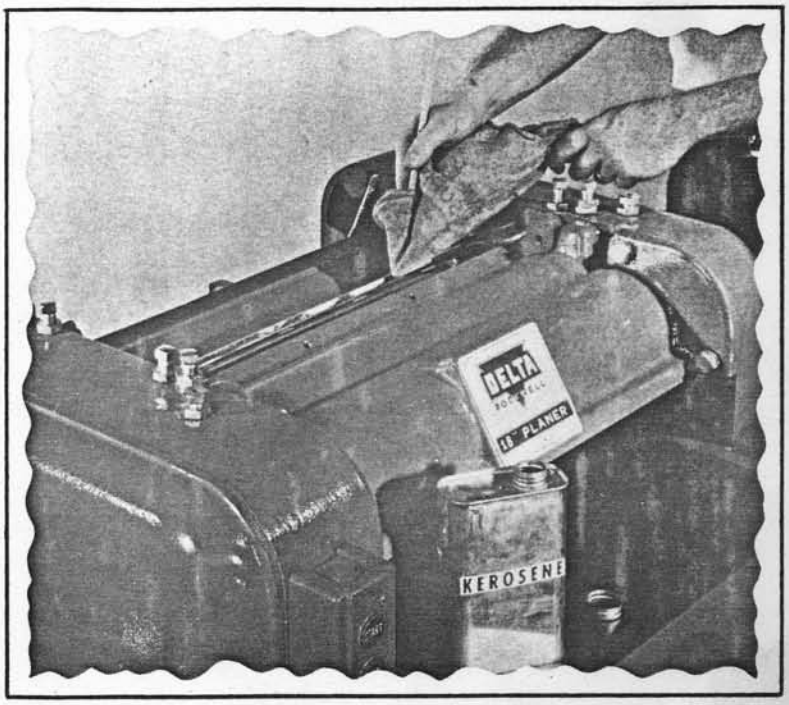
Place spirit level on two parallel blocks.



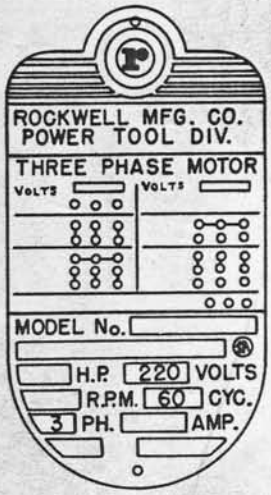
Be sure base is evenly supported, so it will not distort when bolts are tightened.

3. Remove rust preventive from machined surfaces using kerosene or similar solvent.

Remove chip guard. Be sure to clean cutterhead using a pointed stick and a rag to clean out the corners. Clean the feed rolls from underneath. Use a stiff brush such as a scrub brush and solvent.

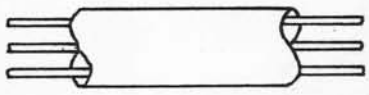


ELECTRICALS



Nameplate on drive motor.

Make sure electrical characteristics are the same.



To connect to power source use heavy enough wire.

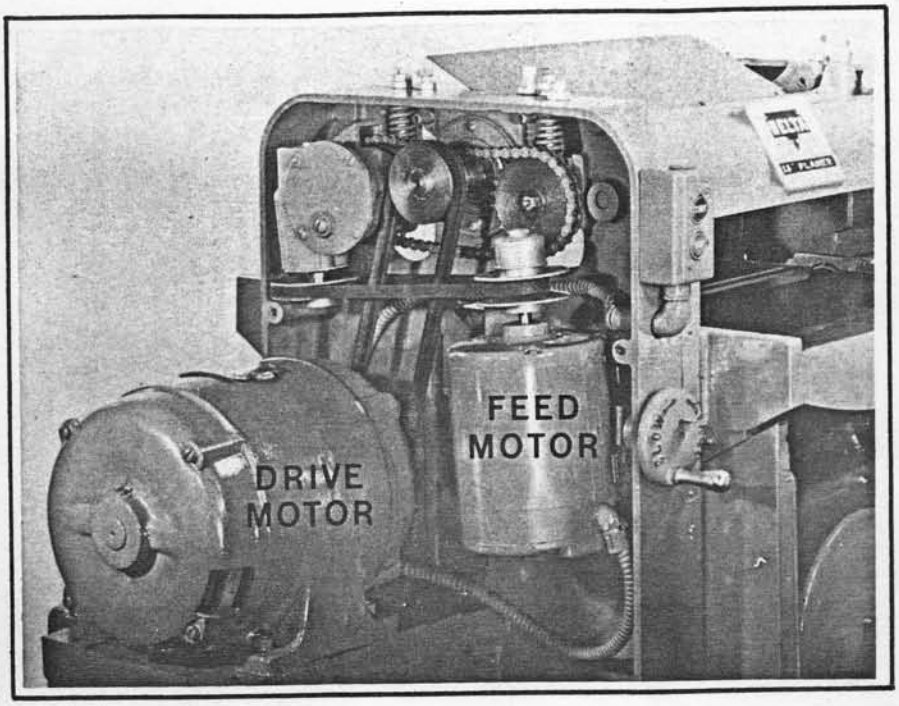
3 PHASE
220 VOLT
60 CYCLE

POWER SOURCE

Your power source.

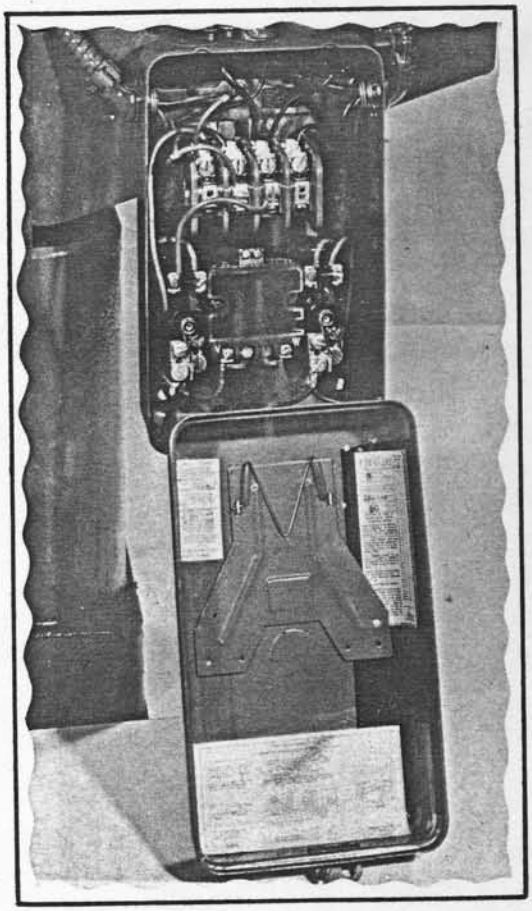
H.P.	1 Phase	3 Phase
3	#10	#14
5	#8	#12
7-1/2		#10

To change rotation see motor nameplate.



Feed motor and drive motor are the same phase, voltage and frequency and already wired to the "on" and "off" switch.

Three phase motors are dual voltage. If changing over, be sure to install proper heater elements. See heater chart on inside of starter cover.



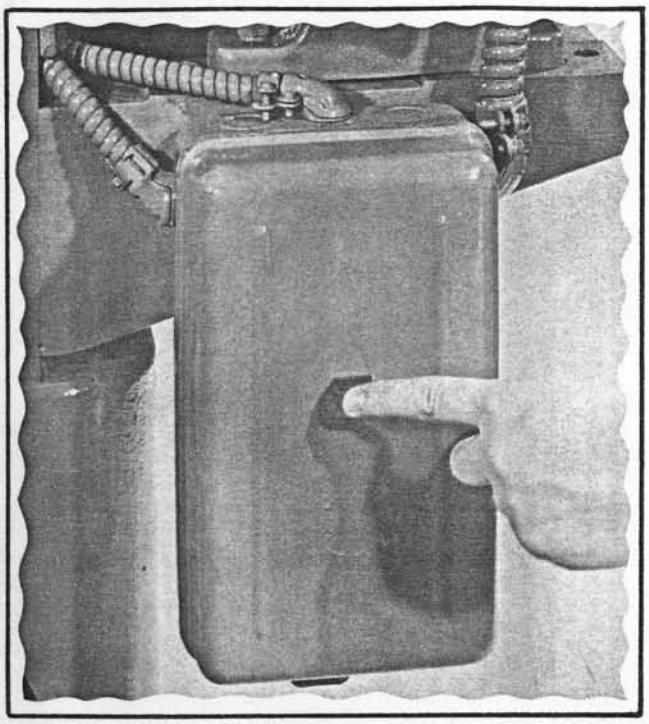
DRIVE MOTOR

The motor bracket will accommodate standard NEMA frame motors.

FRAME	SHAFT DIA.
184	7/8"
213	1-1/8"
215	1-1/8"

See page 17 for belts pulleys and couplings.

Single phase motors should be operated on 230 volts only. If the machine is overloaded, the heater elements will "throw out" stopping the motor.



IF THIS HAPPENS. . . .

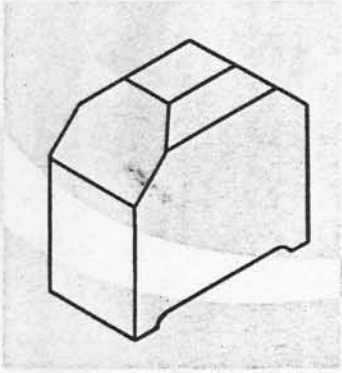
1. Remove the work piece from the planer.
2. Wait a minute or two until the heater elements cool.
3. Press reset button and start motor.
4. If motor stops too frequently, have an electrician check wiring and motor.

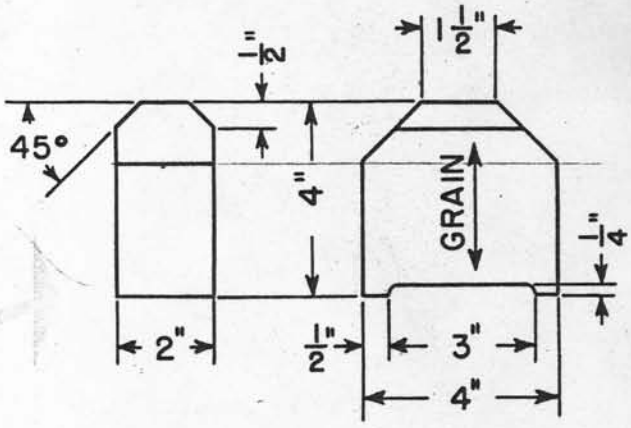
ADJUSTMENTS

BEFORE OPERATING YOUR PLANER, CHECK THE ADJUSTMENTS.

You will need:

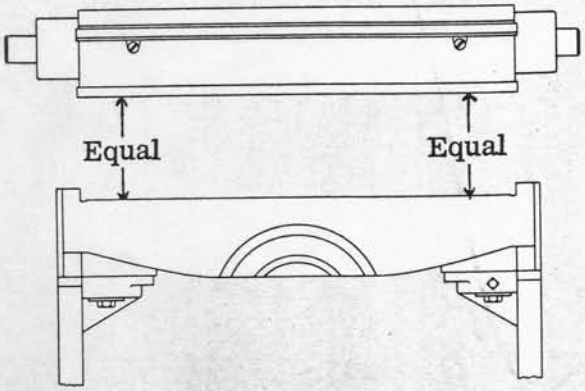
1. Straightedge 12" or longer.
2. Homemade gauge block made of hardwood.





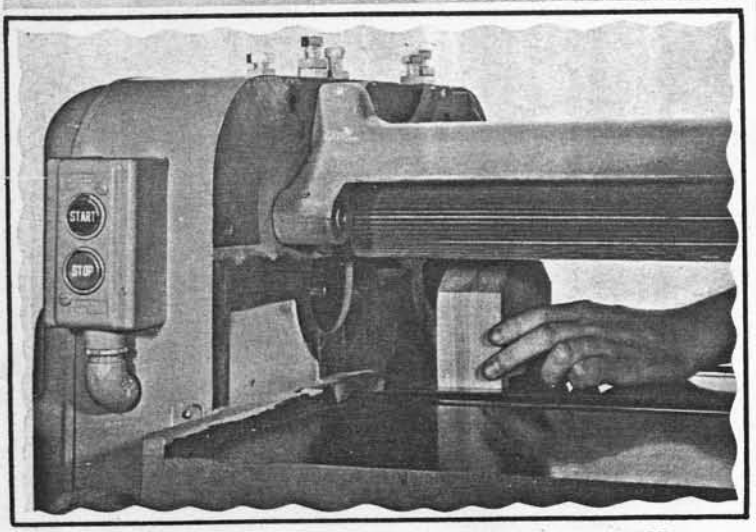
LEVELING BED

DISCONNECT POWER SO PLANER WILL NOT START ACCIDENTLY.

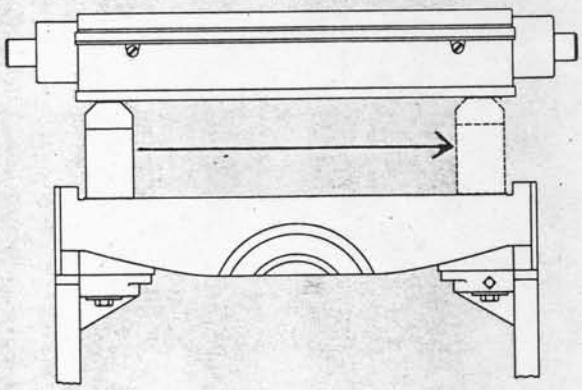


KNIVES MUST BE PARALLEL TO BED

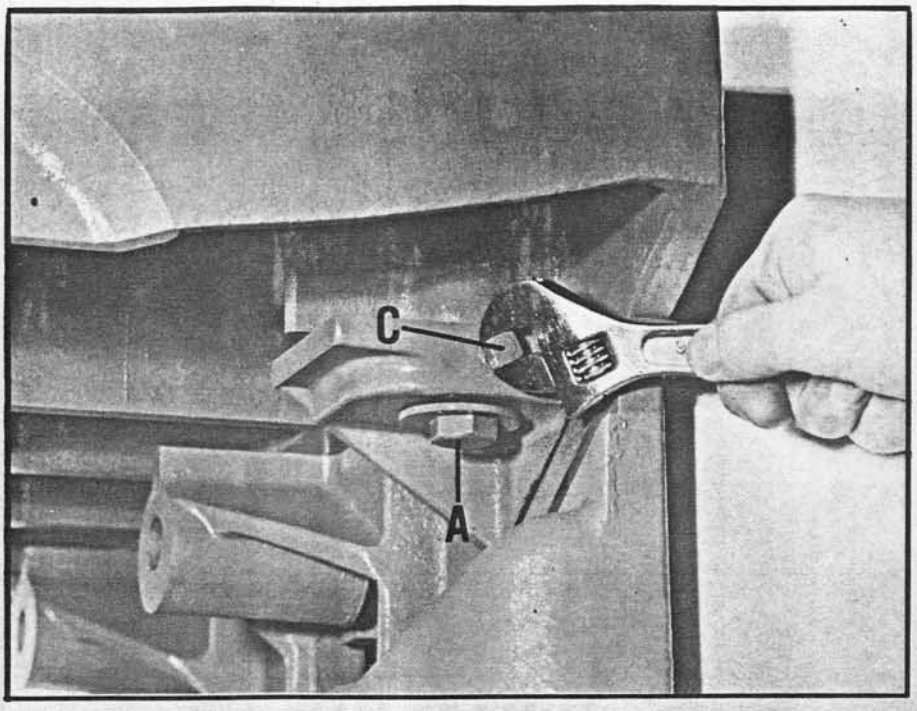
1. Turn cutterhead backwards by hand.
2. Raise bed until knives just touch gauge block.
3. Move gauge block to right side, knives should touch the same amount; if they do not, the bed is not parallel to the knives.



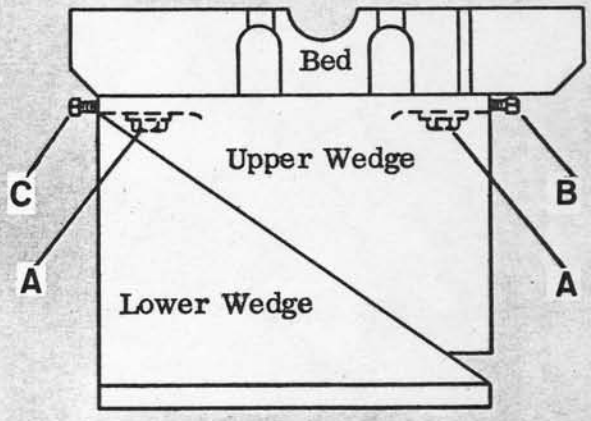
FRONT GIRT REMOVED FOR CLARITY



The bed is adjusted up or down on the right side.



1. Loosen screws C and B.
2. Loosen screws A two turns.
3. Loosen REAR square head screw B, one or two turns.
4. Tighten FRONT square head square C, one or two turns.



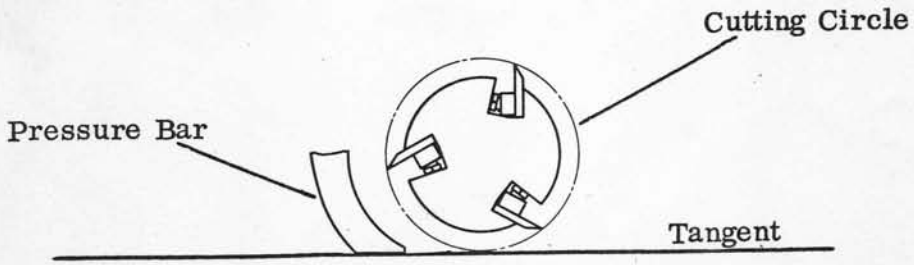
This will move the upper wedge forward RAISING the bed on the right side.

To LOWER the bed on the right side, loosen FRONT square head screw (C), and tighten REAR square head screw (B).

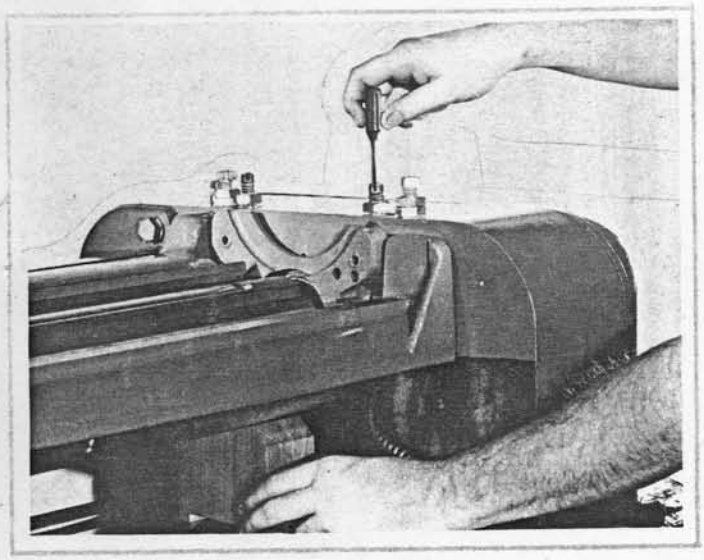
5. When knives touch gauge block the same amount on right and left sides, tighten the 2 cap screws (A) BUT DO NOT RAISE OR LOWER BED. It must remain at this setting for further adjustments.

PRESSURE BAR

This part of your planer holds the stock down and must be parallel to the knives and tangent to the cutting circle.

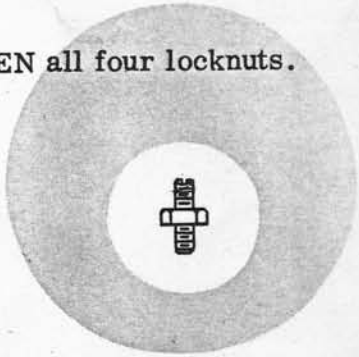


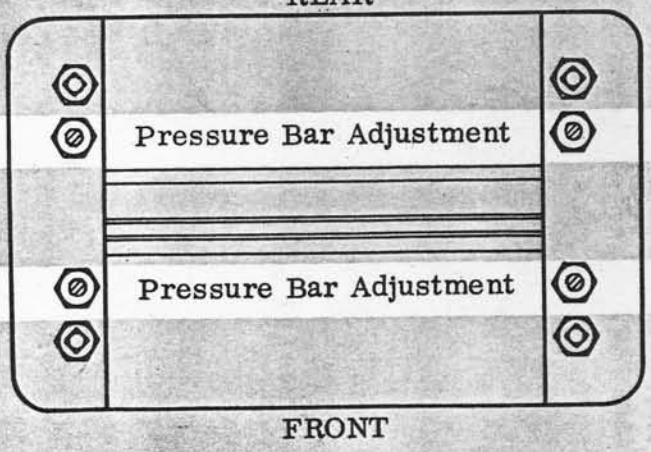
Use gauge block at each end. REMEMBER WE CAUTIONED YOU NOT TO RAISE OR LOWER THE BED AFTER CHECKING AND LEVELING BED.



If pressure bar must be raised or lowered at either end.

1. LOOSEN all four locknuts.





2. To raise pressure bar LOOSEN rear screws 1 or 2 turns.

3. TIGHTEN front screws 1 or 2 turns.

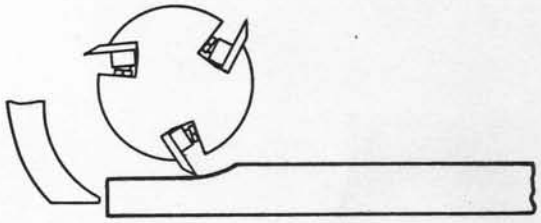
To lower pressure bar, reverse procedure.

After pressure bar is adjusted, tighten locknuts CAUTION: DO NOT DISTURB SETTING OF SQUARE HEAD SET SCREWS.

NOTE: WHEN KNIVES ARE JOINTED, GROUND OR REPLACED, THE PRESSURE BAR MUST BE READJUSTED.

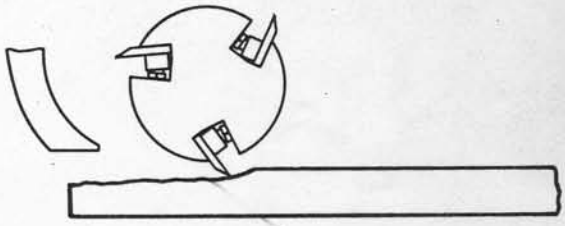
If stock does not feed;

pressure bar is too low.



If stock has chatter marks;

pressure bar is too high.

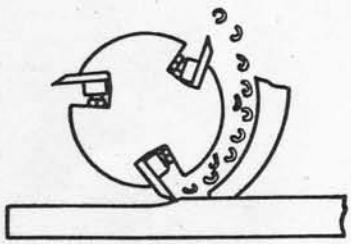


DO NOT RAISE OR LOWER BED, it must remain at this setting for further adjustments.

CHIPBREAKER

This part of your planer "breaks or curls" the chip the same as the plane iron cap on a hand plane.

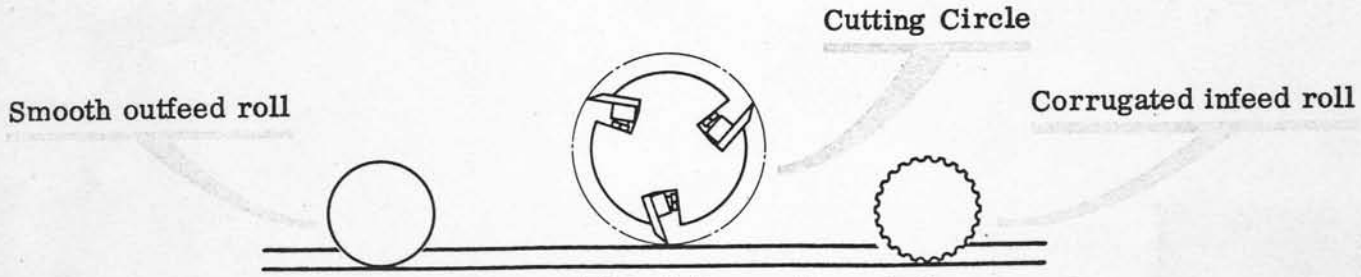
Chip breaker



No adjustment is necessary as this part is machined to provide uniform drag from left to right.

FEED ROLLS

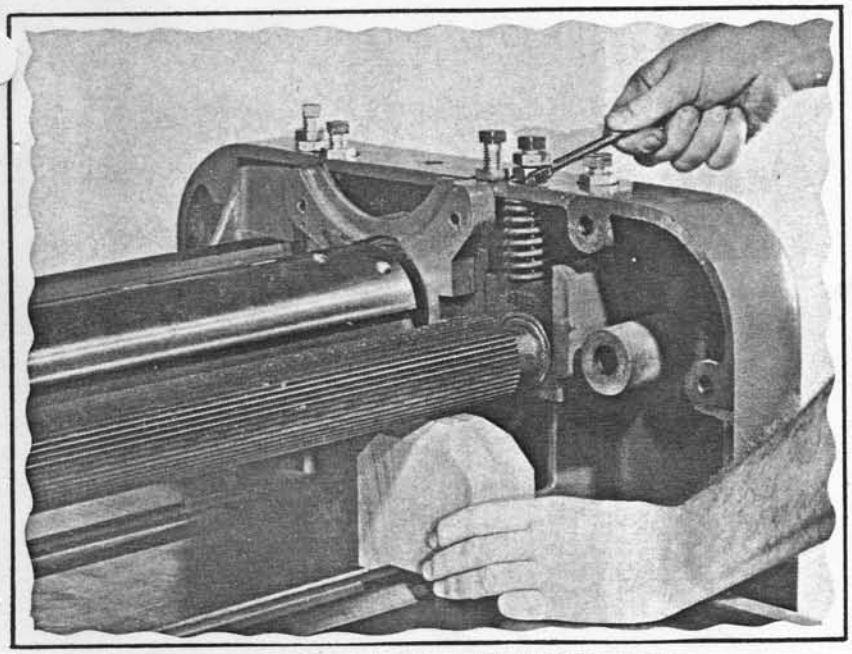
Are those parts of your planer that feed the stock while it is being planed. They are under spring tension and will automatically "yield" (raise and lower) while the stock is being fed.



Feed rolls set 1/32" below cutting circle

To check the feed rolls:

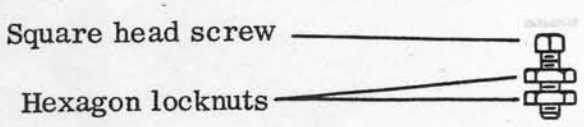
1. Lower the bed exactly 1/32". REMEMBER WE CAUTIONED YOU DO NOT RAISE OR LOWER THE BED AFTER CHECKING AND ADJUSTING PRESSURE BAR ; at which time the bed was set with the pressure bar using the gauge block.



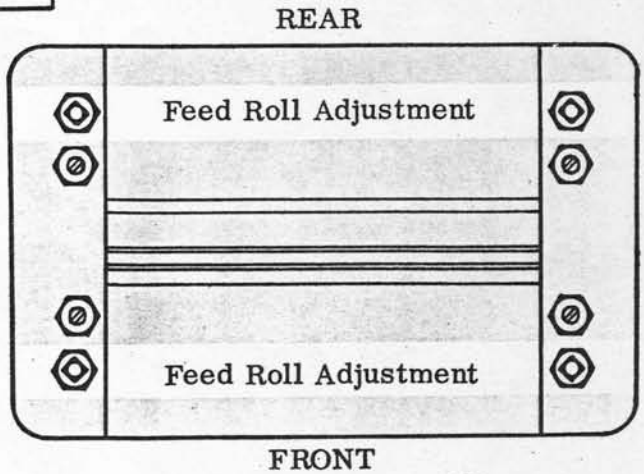
FRONT GIRT AND CHIP BREAKER REMOVED FOR CLARITY

2. Use gauge block on right and left side of feed roll. If roll must be raised or lowered;

3. Loosen both hexagon locknuts and turn lower locknut to the right to raise and to the left to lower.

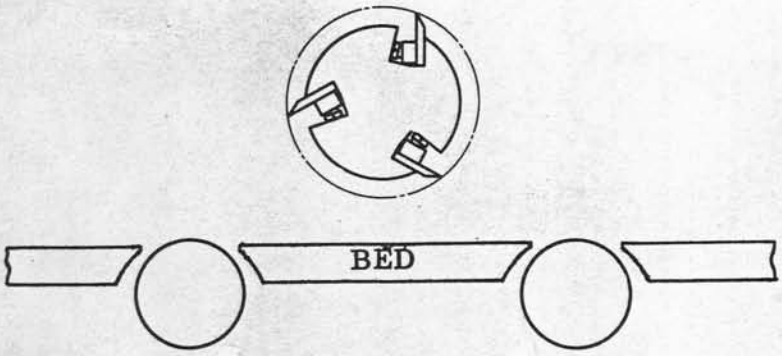


4. When equal settings are obtained, tighten both locknuts against each other.

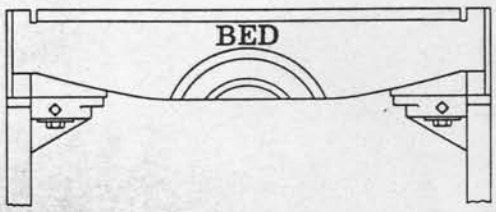


BED ROLLS

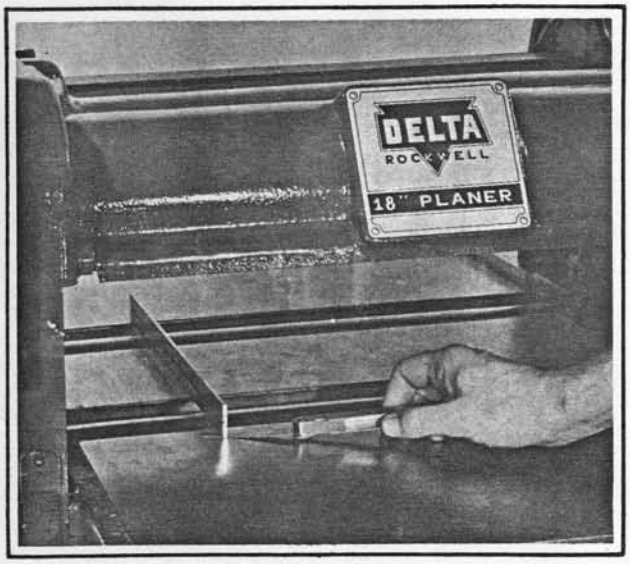
Are those parts of your planer that aid feeding the stock by reducing friction. They turn as the stock is fed through the planer.



The rolls must be parallel to the bed.



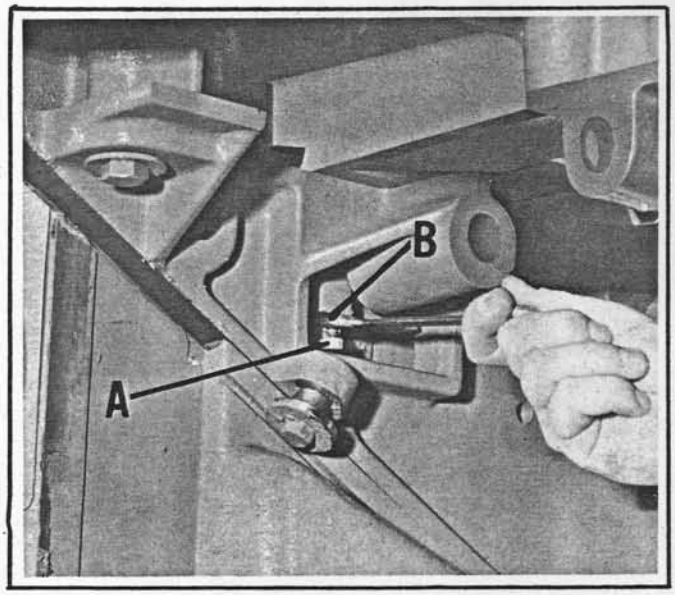
When planing rough stock, the bed rolls should be set HIGH. When planing smooth stock they should be set LOW; approximately .005" above the bed for average planing.



ADJUSTMENT

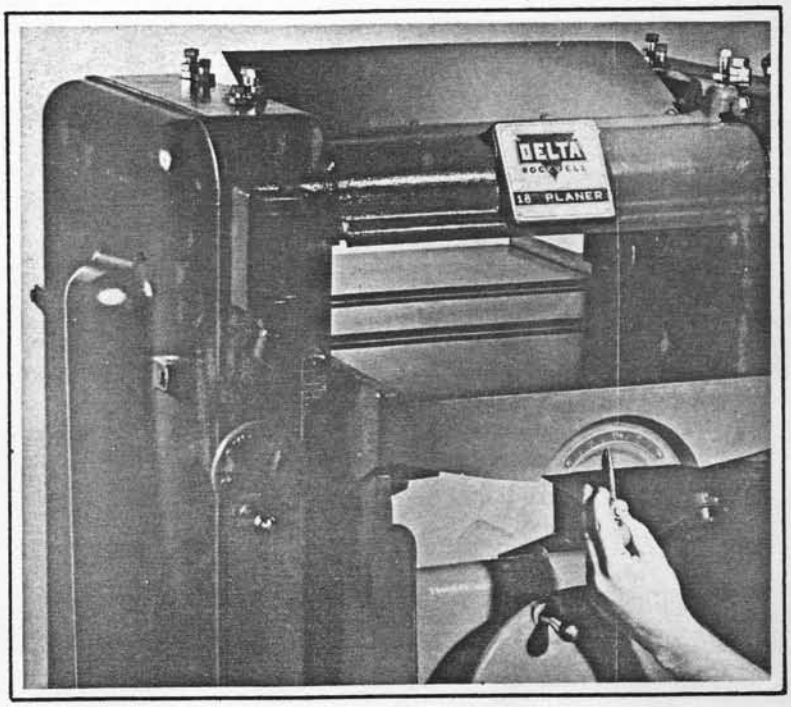
Lay straightedge across both rolls and use a piece of metal or paper as a feeler guage . Check right and left sides to make sure both rolls are an equal height and parallel to the bed.

To raise the roll, loosen locknut (A) under roll bearing housing and back out or unscrew square head screw (B).



For instant bed roll adjustment, equip your planer with Delta 22-803 REDI-SET ADJUSTABLE BED ROLL ATTACHMENT.

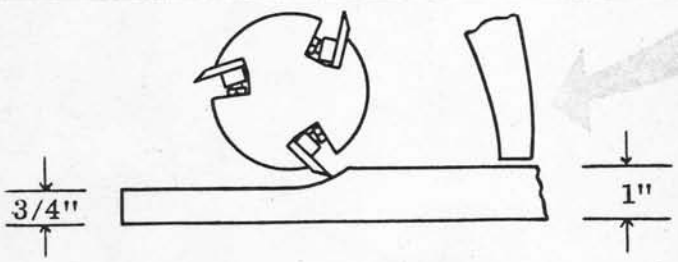
Rolls can be raised or lowered instantly by a simple turn of the handle.



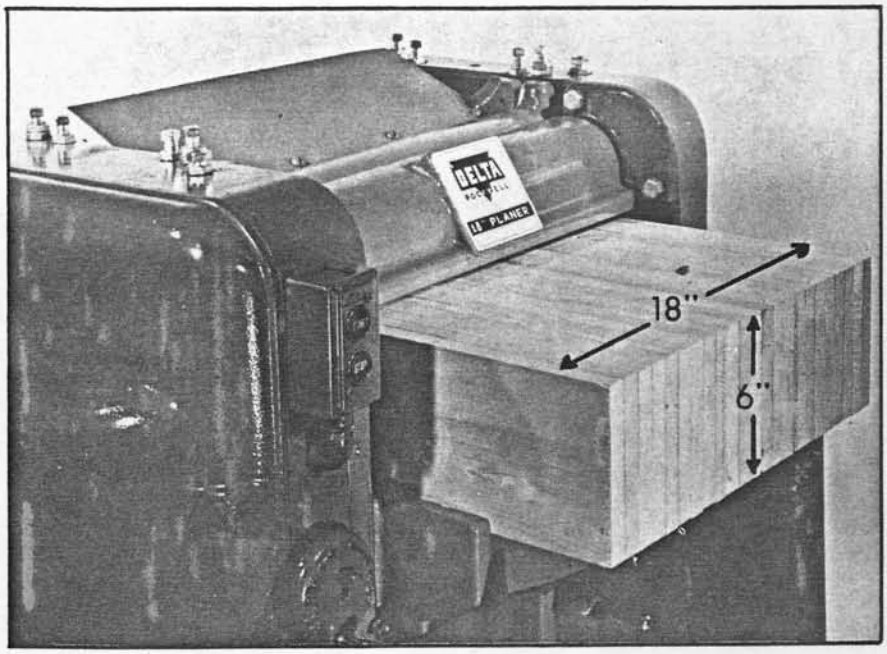
DEPTH OF CUT

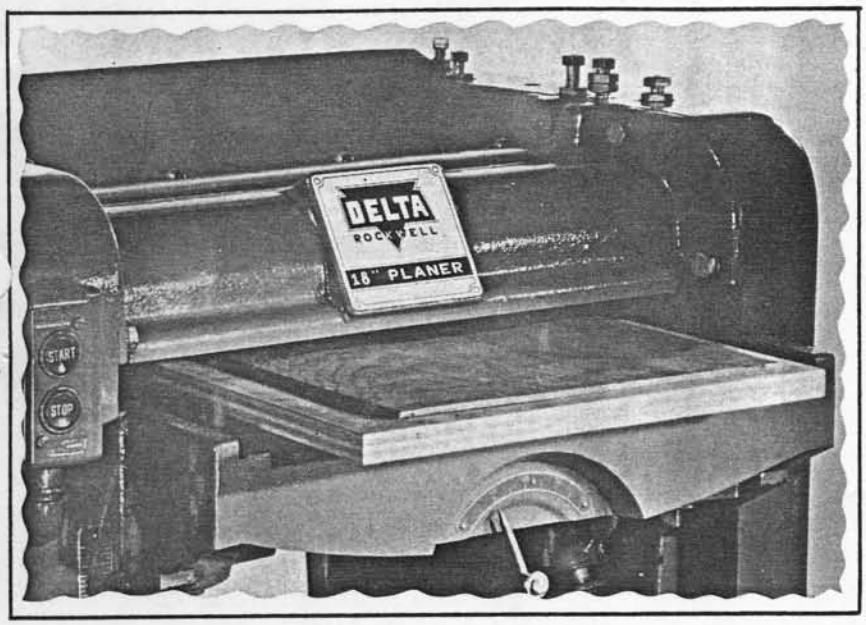
Your planer will cut a maximum of 1/4" in one pass.

Front girt set for 1/4" maximum cut.



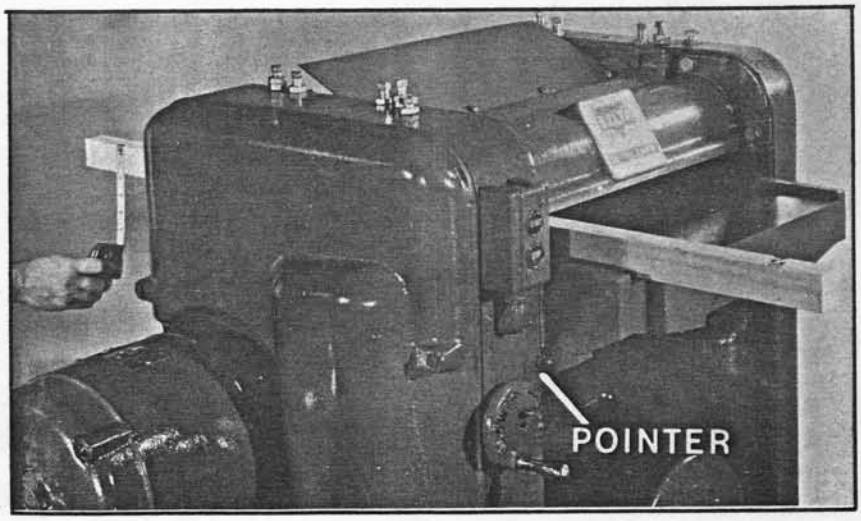
Stock up to 6" thick and 18" wide can be planed such as this laminated beam.





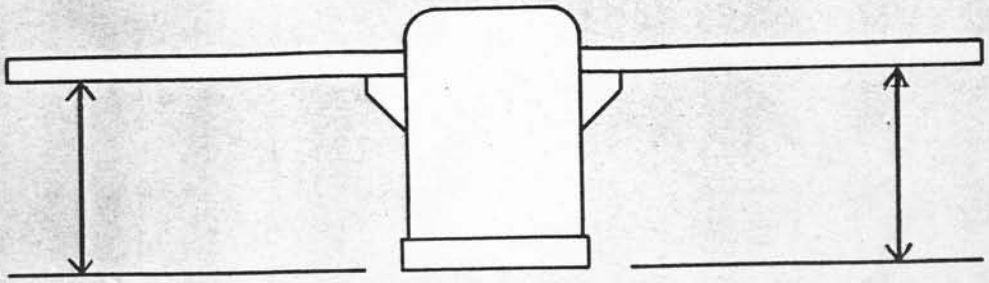
When planing thin stock always use a back up piece 3/4" or thicker.

Run piece of stock part way through. Stop planer and measure thickness of finished end. Check pointer and adjust to same dimension if necessary.

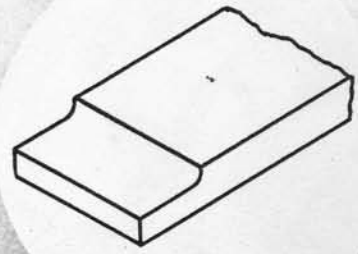


GENERAL

If your planer is properly adjusted and you thoroughly understand the reasons for the adjustments you should have no difficulty.



Support equally

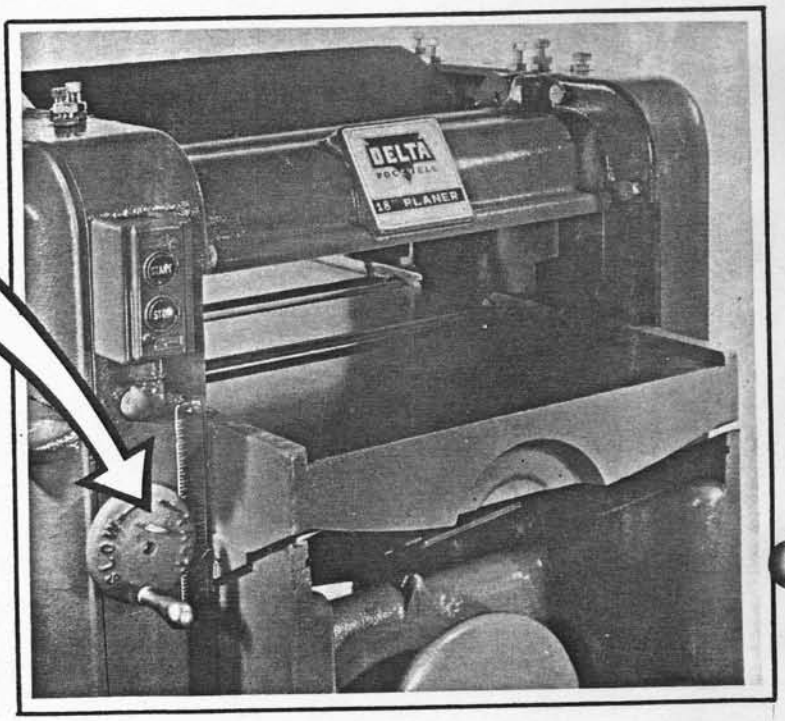


1. Always support stock when feeding, otherwise, a "snipe" will appear on either or both ends.

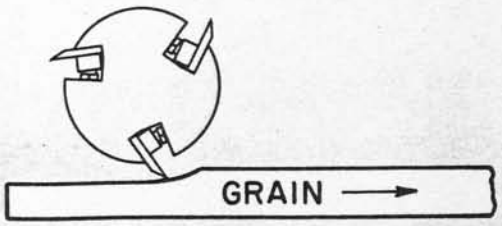
2. Adjust feed according to finish desired.

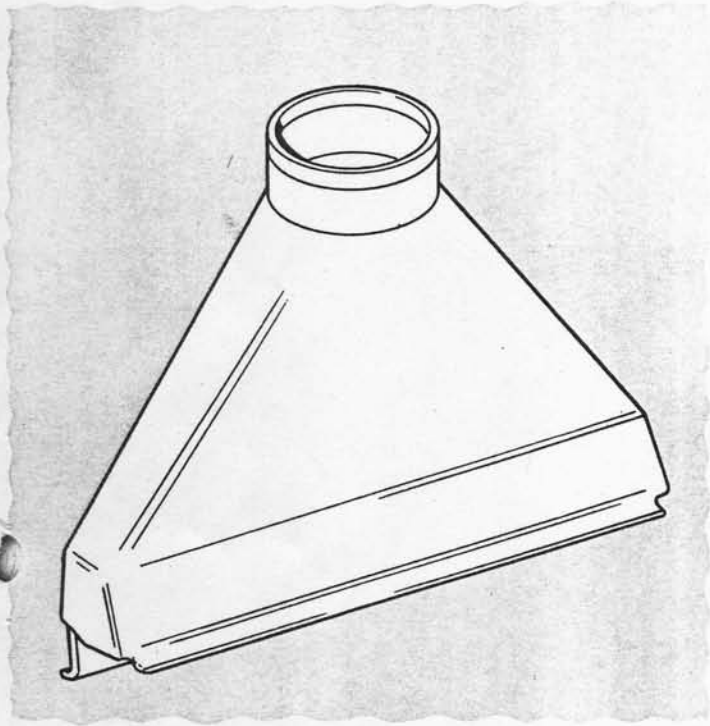
For exceptionally smooth finish,
FEED SLOW.

For roughing,
FEED FAST.



3. Always feed stock to cut "with the grain."



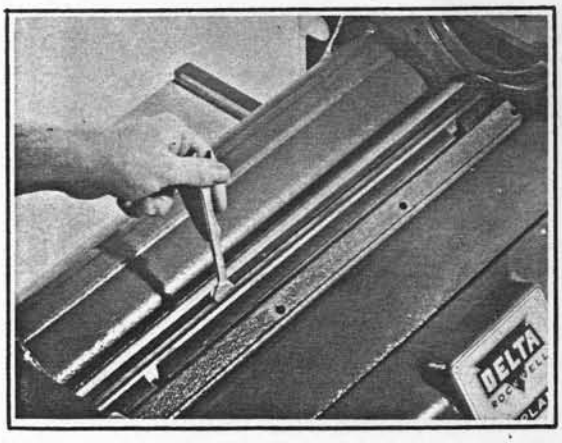


4. For best possible finish, connect your planer to an exhaust system to prevent chips from becoming embossed on finished surface. Equip your planer with Delta 22-801 EXHAUST HOOD. The Diameter of opening is 5" O. D. and 4-5/8" I. D.

MAINTENANCE

REPLACING KNIVES

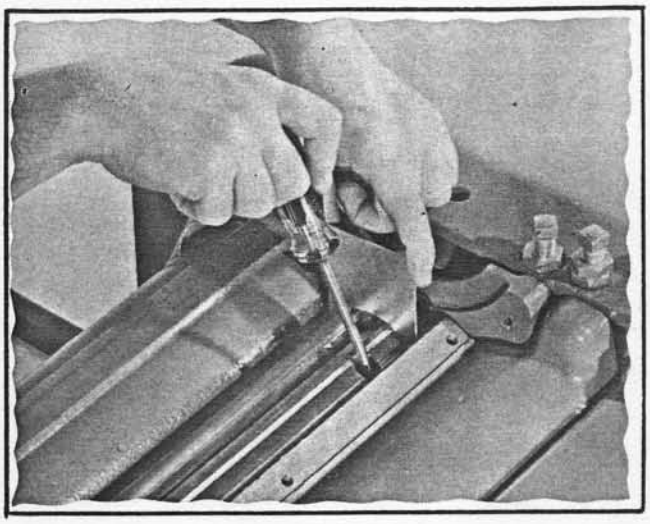
1. Disconnect power so machine cannot be accidently started.
2. Remove chip guard.
3. Loosen knife screws. Note: Screw them into knife bar by turning to the right.



4. Thoroughly clean knife slots in cutterhead, knife bars and screws. Check the screws. If the threads appear worn or stripped or if the heads are becoming rounded, replace them.

5. Remove rust preventive from new knives, (Delta 22-800), use Delta 4051 Gum and Pitch Remover. HANDLE THEM CAREFULLY Inspect the cutting edge for nicks or wire edge. Hone the knives slightly using a FINE stone.

6. Insert a knife and knife bars in slot and back out knife screws just enough to hold knife. Make sure all 3 knives project the same amount at both ends.

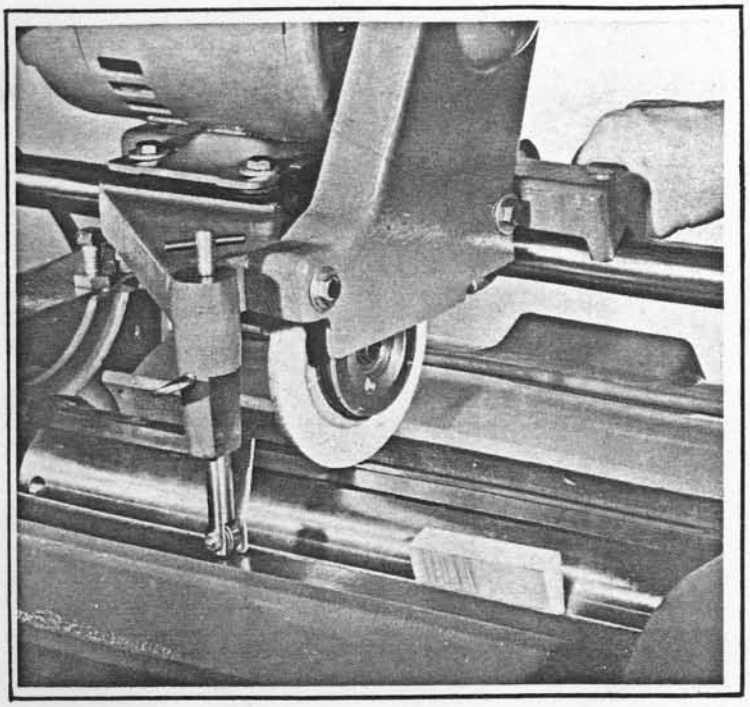


7. Place knife gauge over knife and raise or lower knife by turning lifter screw until cutting edge touches gauge.

8. Check both ends and center. If knife is bowed slightly in center, raise or lower both ends to bring center up to gauge, and tighten center knife screws.

9. After all 3 knives are set and rechecked carefully with gauge, re-check all knife screws to make sure they are tight.

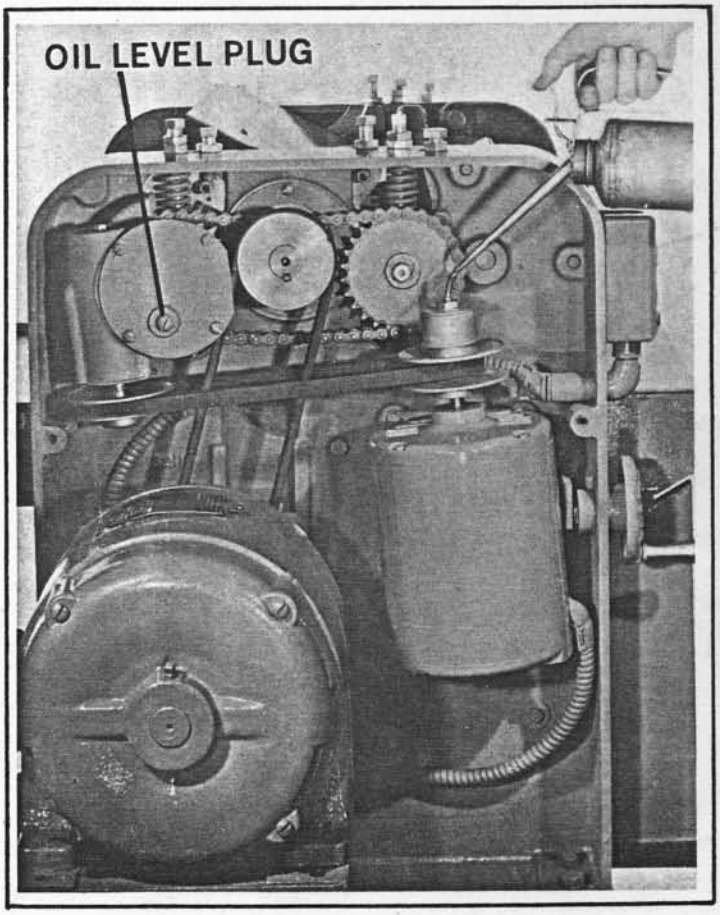
10. REMEMBER TO RECHECK THE PRESSURE BAR AND ADJUST IF NECESSARY, unless you are going to joint the knives.



KEEP KNIVES SHARP. The knives can be jointed or completely ground without removing them. Equip your planer with Delta 22-802 Knife Grinding and Jointing Attachment.

LUBRICATION

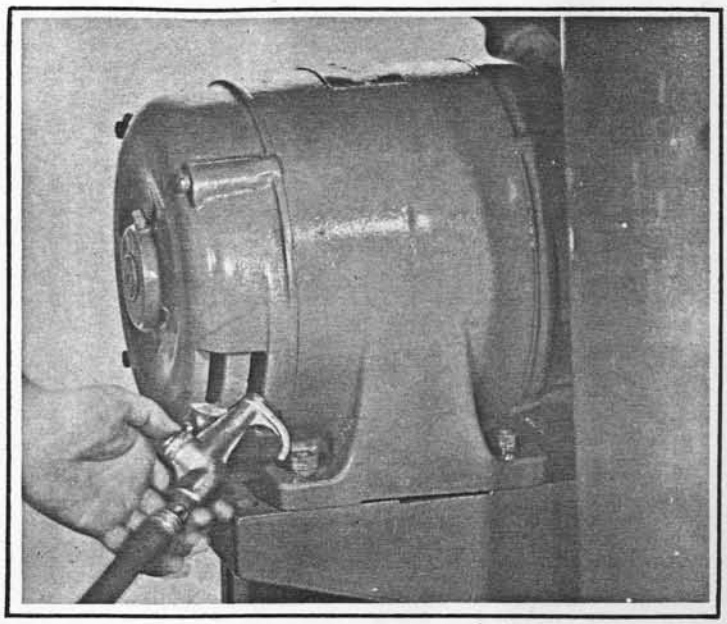
Your planer is equipped with lubricated and sealed ball bearings that require no further lubrication. Periodically apply a few drops of light oil to the wedge ways, elevating screw, and variable speed pulley on the feed motor. The gear box is lubricated and sealed. If planer is used constantly, replace 600-W worm gear oil once a year.



MOTOR CARE

Check motors frequently. Motor trouble usually develops from dirt and moisture. For motor service, contact nearest service station shown on list furnished with planer. See motor manufacturers name on motor nameplate.

Make sure ventilating holes are clean so motor does not overheat. Blow out dust and chips, use dry compressed air.



ACCESSORIES AVAILABLE

22-800	Set of 3 Knives	49-112	Set of Two V-Belts 35-1/2" O.C. for Cutterhead Drive
22-801	Shaving Hood	49-114	Set of Three V-Belts 35-1/2" O.C. for Cutterhead Drive
22-802	Knife Grinding and Jointing Attachment	49-149	V-Belt 33" O.C. for Feed Drive
22-803	Redi-Set Adjustable Bed Roll Attachment	22-810	Motor Coupling 7/8" x 1-1/8" Bore
41-515	Two Groove Motor Pulley, 7/8" Bore	22-811	Motor Coupling 1-1/8" x 1-1/8" Bore
41-517	Two Groove Pulley for Motor or Cutterhead, 1-1/8" Bore	22-812	Variable Speed Pulley for Feed Drive
41-607	Three Groove Pulley for Motor or Cutterhead, 1-1/8" Bore		

SPECIFICATIONS

Maximum width of stock	18"	Infeed Roller	2-1/4" dia. solid serrated
Maximum thickness of stock	6"	Outfeed roller	2-1/4" dia., smooth
Minimum thickness of stock	1/8"	Speed of feedrollers (rpm)	Variable
Maximum depth of cut	1/4"	Table Rolls	2-1/4" dia. 8" C.C.
Minimum length (unbutted)	8"	Table raising mechanism	Wedge bed
Linear feet per minute	15 to 36 variable	Thickness scale	0" to 6"
Inches of cuts per minute	Variable	Table dimensions	18" x 30"
Number of cuts per minute	10,350	Overall dimensions	31-1/2" wide 32" deep 41" high
Cutterhead	3 knife		
Knives (3)	18-1/2" x 1-1/8" x 5/32"	Floor space	21-1/4" x 31-1/2"
Dia. of cutterhead	3-1/4"	Approximate shipping weight (lbs.)	965
Dia. of cutting circle	3-1/2"	Motors (horsepower)	3, 5 and 7-1/2
Cutterhead speed (rpm)	3450		
Feed Drive			

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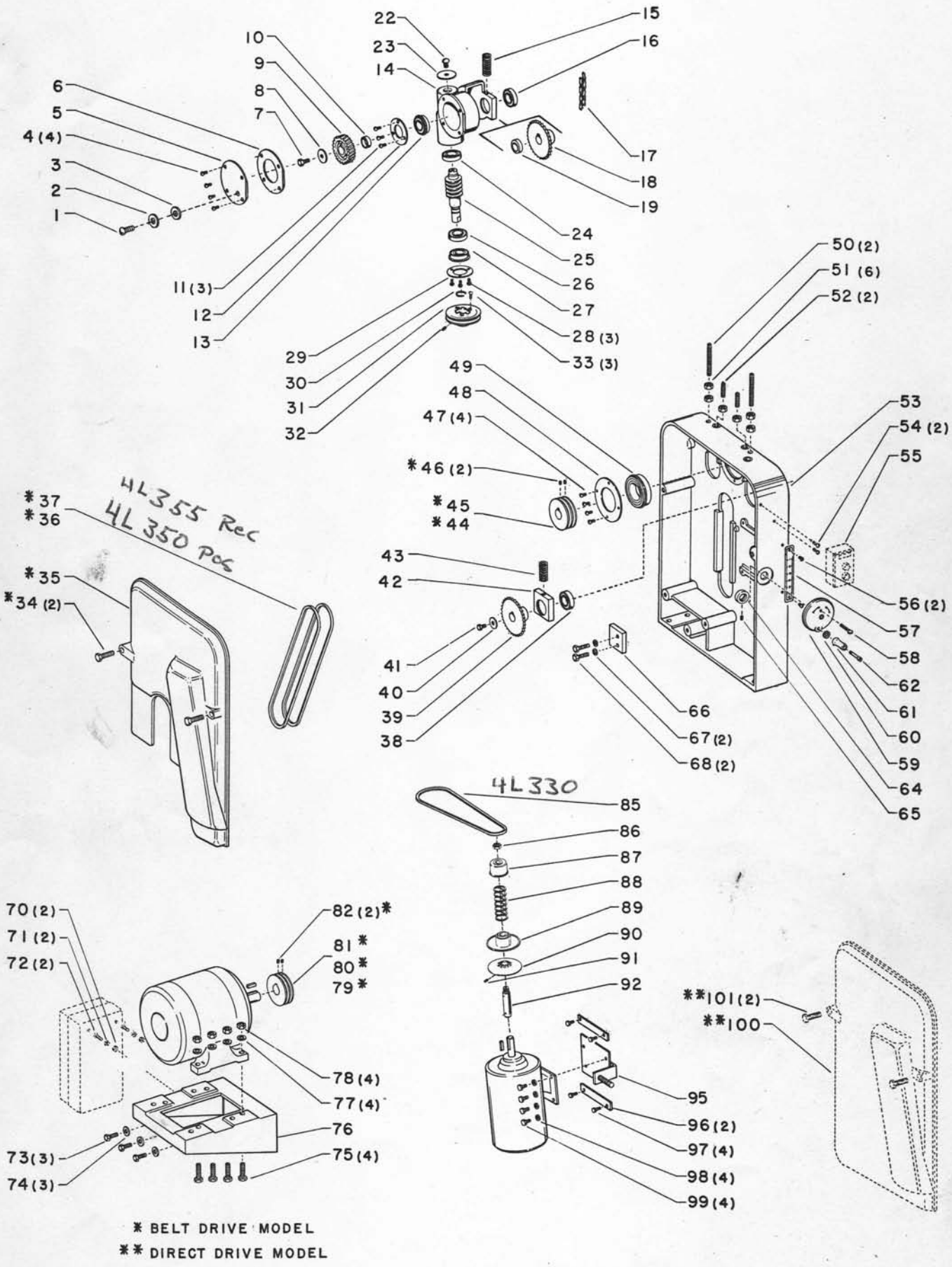
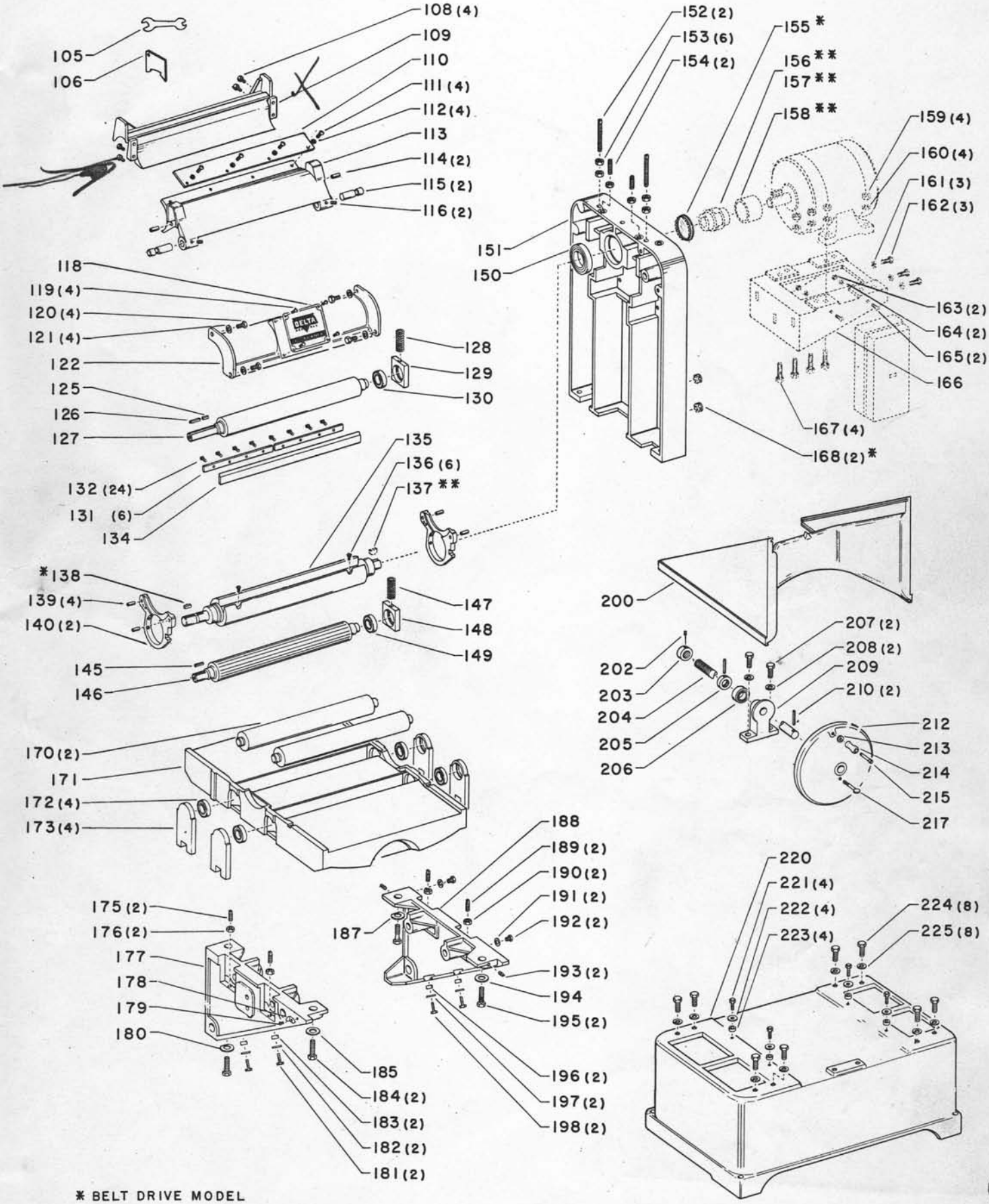

4L355 Rec
4L350 Pos
4L330
* BELT DRIVE MODEL
** DIRECT DRIVE MODEL

FIGURE 1

Replacement Parts

Ref. No.	Part No.	Description
1	901-02-011-8954	3/8-16 x 1/2"Rd. Hd. Screw
2	SBS-55	Special Washer
3	MK-5247	Fiber Washer
4	SP-514	1/4-20 x 3/8"Rd. Hd. Screw
5	428-02-031-5001	Cover Plate
6	428-02-116-5001	Gasket
7	SP-610	7/16-14 x 3/4"Hex. Hd. Screw
8	SP-1607	1/2 x 1 1/4 x 5/64"Washer
9	428-02-051-5002	Worm Wheel
10	904-10-031-5979	Spacer
11	SP-555	#8-32 x 3/8"Rd. Hd. Screw
12	428-02-072-5001	Plate
13	920-04-021-6584	Bearing
14	428-02-013-5001	Gear Box
15	928-01-201-8858	Spring
16	SP-5360	Bearing
17	428-02-323-5001	Chain
18	428-02-051-5001	Sprocket
19	904-10-151-5980	Spacer
22	SP-514	1/4-20 x 3/8"Rd. Hd. Screw
23	904-01-031-5742	9/32 x 1"Washer
24	SP-5348	Bearing
25	428-02-051-5003	Worm & Shaft
26	908-30-210-5235	Oil Seal
27	920-04-021-6585	Bearing
28	SP-593	#10-24 x 3/8"Binding Hd. Screw
29	428-02-072-5001	Plate
30	904-15-011-7120	Retaining Ring
31	Cat. #5400-C	Pulley, Including:
32	SP-206	5/16-18 x 5/16"Soc. Set Screw
33	901-06-450-8223	#10 x 1/2"Drive Screw
34	SP-3125	5/16-18 x 2 1/2"Hex. Hd. Screw
35	428-02-054-5001	Guard - Belt Drive
36	Cat. #49-112	Set of Two V-Belts - 35 1/2"O. C. A Section for Cutterhead Drive
37	Cat. #49-114	Set of Three V-Belts - 35 1/2"O. C. A Section for Cutterhead Drive
38	SP-5360	Bearing
39	428-02-051-5001	Sprocket
40	SP-1607	1/2 x 1 1/4 x 5/64"Washer
41	SP-610	7/16-14 x 3/4"Hex. Hd. Screw
42	428-02-079-5002	Feed Roll Brg. Retainer
43	928-01-201-8858	Spring
44	Cat. #41-517	Two Groove Pulley for Cutterhead, 1 1/8"Bore, Including:
46	901-04-109-9449	1/4-20 x 5/8"Soc. Set Screw
45	Cat. #41-607	Three Groove Pulley for Cutterhead, 1 1/8"Bore, Including:
46	901-04-109-9449	1/4-20 x 5/8"Soc. Set Screw
47	SP-514	1/4-20 x 3/8"Rd. Hd. Screw
48	428-02-079-5003	Retainer
49	920-09-011-6582	Bearing
50	SP-315	1/2-13 x 4"Sq. Hd. Set Screw
51	SP-1266	1/2"-13 Hex. Jam Nut
52	901-04-121-3623	1/2-13 x 1 1/2"Headless Set Scr.
53	428-02-049-5002	L. H. Frame
54	SP-559	#10-32 x 1/2"Rd. Hd. Screw
55	438-01-017-0061	Push Button Switch
56	SP-2250	#4 x 3/16"Drive Screw
57	951-02-011-7006	Scale
58	901-04-261-4012	1/4-20 x 1 1/2"Thumb Screw
59	930-01-991-6395	Variable Speed Handwheel, Including:
60	904-07-011-7759	Fiber Washer
61	931-01-061-4083	Handle
62	LTA-422	Pin
64	428-02-079-5004	Handwheel Retainer
65	SP-206	5/16-18 x 5/16"Soc. Set Screw
66	428-02-055-5001	Guide
67	SP-1705	1/2"Split Lockwasher
68	SP-620	1/2-13 x 1 1/4"Hex. Hd. Screw
70	SP-1034	1/4"-20 Hex. Nut
71	SP-1702	1/4"Split Lockwasher
72	SP-501	1/4-20 x 1"Rd. Hd. Screw
73	SP-620	1/2-13 x 1 1/4"Hex. Hd. Screw
74	SP-1618	9/16 x 1 3/8"x 12 Ga. Washer
75	SP-3102	3/8-16 x 1 3/4" Hex. Hd. Screw
76	428-02-072-5002	Motor Plate
77	SBS-55	Special Washer
78	SP-1005	3/8"-16 Hex. Jam Nut
79	Cat. #41-515	Two Groove Motor Pulley, 7/8"Bore, Including:
82	901-04-190-9449	1/4-20 x 5/8"Soc. Set Screw
80	Cat. #41-517	Two Groove Motor Pulley, 1 1/8"Bore, Including:
82	901-04-190-9449	1/4-20 x 5/8"Soc. Set Screw
81	Cat. #41-607	Three Groove Motor Pulley, 1 1/8"Bore, Including:
82	901-04-190-9449	1/4-20 x 5/8"Soc. Set Screw
85	Cat. #49-149	V-Belt - 33"O. C. for Feed Drive
	Cat. #22-812	Variable Speed Pulley for Feed Drive, Consisting of:
86	SBS-19	5/8"-18 Special Hex. Nut
87	NSS-353	Cover
88	928-01-201-5888	Spring
89	NSS-351	Half Sheave
90	926-05-061-4662	Half Sheave
91	SP-217	5/16-18 x 1/2"Soc. Set Screw
92	430-02-109-0001	Shaft
95	428-02-372-5001	Feed Motor Plate
96	428-02-052-5001	Gib
97	SP-605	5/16-18 x 1/2"Hex. Hd. Screw
98	SP-1620	11/32 x 11/16 x 1/16"Washer
99	SP-605	5/16-18 x 1/2"Hex. Hd. Screw
100	428-02-054-5002	Guard - Direct Drive
101	SP-3125	5/16-18 x 2 1/2"Hex. Hd. Screw



* BELT DRIVE MODEL

** DIRECT DRIVE MODEL

FIGURE 2

Replacement Parts

Ref. No.	Part No.	Description
105	955-01-041-6156	Wrench
106	428-02-050-5001	Knife Gage
108	SP-608	5/16-18 x 7/8 Hex. Hd. Screw
109	428-02-060-5001	Holder
110	428-02-036-5002	Deflector Plate
111	SP-520	5/16-18 x 3/8"Rd. Hd. Screw
112	SP-1703	5/16"Split Lockwasher
113	428-02-036-5001	Deflector
114	905-01-010-6749	5/16 x 1 1/2"Roll Pin
115	428-02-071-5001	Pin
116	SP-206	5/16-18 x 5/16"Soc. Set Screw
118	960-02-011-8341	Nameplate
119	901-06-450-2848	#2 x 1/4"Drive Screw
120	SP-620	1/2-13 x 1 1/4"Hex. Hd. Screw
121	SP-1705	1/2"Split Lockwasher
122	428-02-014-5001	Bracket
125	SP-2695	3/16 x 3/16 x 1"Key
126	SP-2662	3/16 x 3/16 x 3/4"Key
127	428-02-080-5003	Outfeed Roller
128	928-01-201-8858	Spring
129	428-02-079-5002	Feed Roller Brg. Retainer
130	SP-5360	Bearing
131	428-02-304-5001	Knife Locking Bar, Including:
132	901-04-021-6256	3/8-16 x 3/8"Sq. Hd. Set Screw
134	Cat. #22-800	Set of Three Knives
135	428-02-057-5001	Cutterhead
136	SP-406	1/4-20 x 3/4"Flat Hd. Screw
137	927-01-011-7505	#808 Woodruff Key
138	COS-362	1/4 x 1/4 x 1"Key
139	905-01-010-6750	1/2 x 1 3/4"Roll Pin
140	428-02-089-5004	Support
145	SP-2695	3/16 x 3/16 x 1"Key
146	428-02-080-5001	Infeed Roller
147	928-01-201-8858	Spring
148	428-02-079-5002	Feed Roller Brg. Retainer
149	SP-5360	Bearing
150	920-09-011-6583	Bearing
151	428-02-049-5001	R. H. Frame
152	SP-315	1/2-13 x 4" Sq. Hd. Set Screw
153	SP-1266	1/2"-13 Hex. Jam Nut
154	901-04-121-3623	1/2-13 x 1 1/2"Headless Set Scr.
155	961-01-010-7490	Plug
156	Cat. #22-810	Motor Coupling, 7/8 x 1 1/8"Bore
157	Cat. #22-811	Motor Coupling 1 1/8 x 1 1/8"Bore
158	428-02-031-5002	Cover
159	SP-1005	3/8"-16 Hex. Jam Nut
160	SBS-55	Special Washer
161	SP-1618	9/16 x 1 3/8 x 12 Ga. Washer
162	SP-620	1/2-13 x 1 1/4"Hex. Hd. Screw
163	SP-1034	1/4"-20 Hex. Nut
164	SP-1702	1/4"Split Lockwasher
165	SP-501	1/4-20 x 1"Rd. Hd. Screw
166	428-02-072-5002	Motor
167	SP-3102	3/8-16 x 1 3/4"Hex. Hd. Screw
168	961-01-010-7489	Plug
170	428-02-080-5002	Table Roller
171	428-02-091-5001	Table
172	SP-5360	Bearing
173	428-02-079-5001	Table Roller Brg. Retainer
175	SP-322	3/8-16 x 1 1/2"Sq. Hd. Set Scr.
176	SP-5433	3/8-16 Hex. Jam Nut
177	428-02-098-5001	L. H. Wedge
178	951-01-051-7005	Pointer
179	SP-555	#8-32 x 3/8"Rd. Hd. Screw
180	428-02-079-5005	Retainer
181	SP-648	3/8-16 x 1 1/4"Hex. Hd. Scr.
182	428-02-055-5002	Guide
183	904-10-031-5977	Spacer
184	SP-616	1/2-13 x 1 1/2"Hex. Hd. Screw
185	904-01-011-5743	9/16 x 1 7/8"Washer
187	428-02-079-5005	Retainer
188	428-02-098-5002	R. H. Wedge
189	SP-322	3/8-16 x 1 1/2"Sq. Hd. Set Scr.
190	SP-5433	3/8"-16 Hex. Jam Nut
191	SP-1606	7/16 x 1 x 5/64"Washer
192	SP-640	3/8-16 x 3/4"Hex. Hd. Screw
193	SP-313	3/8-16 x 1"Sq. Hd. Set Screw
194	904-01-011-5743	9/16 x 1 7/8"Washer
195	SP-616	1/2-13 x 1 1/2"Hex. Hd. Scr.
196	904-10-031-5977	Spacer
197	428-02-055-5002	Guide
198	SP-648	3/8-16 x 1 1/4"Hex. Hd. Screw
200	428-02-098-5003	Wedge
202	SP-1185	1/4-20 x 5/16"Soc. Set Screw
203	254-39	Stop Collar
204	428-02-112-5001	Screw
205	904-10-151-5982	Collar
206	920-43-021-8080	Bearing
207	SP-616	1/2-13 x 1 1/2"Hex. Hd. Screw
208	SP-1705	1/2"Split Lockwasher
209	428-02-089-5001	Support
210	SP-2730	3/16 x 1 1/2"Roll Pin
212	930-03-991-6396	Handwheel, Including:
213	904-07-011-7759	Fiber Washer
214	931-01-061-4083	Handle
215	LTA-422	Pin
217	901-04-261-4010	5/16-18 x 2"Thumb Screw
220	428-02-005-5001	Base
221	SP-648	3/8-16 x 1 1/4"Hex. Hd. Screw
222	428-02-055-5002	Guide
223	904-10-031-5977	Spacer
224	SP-616	1/2-13 x 1 1/2"Hex. Hd. Screw
225	SP-1705	1/2"Split Lockwasher

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