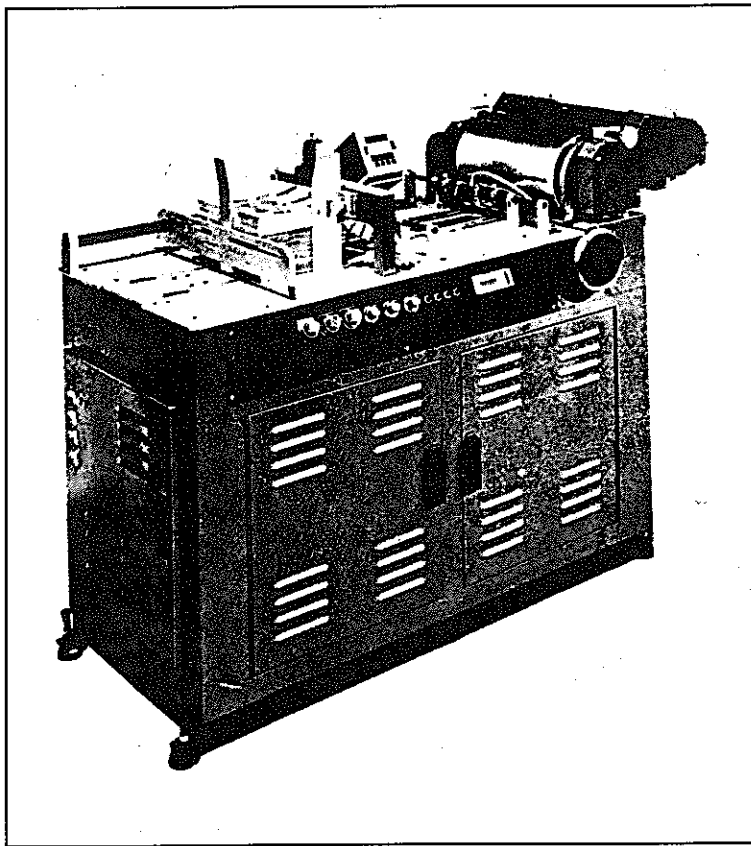


# ***Kirk-Rudy, Inc.***

## **Instruction and Parts Manual 201 Heavy Duty Imprinter**



**Manufactured by Kirk-Rudy, Inc.**

**Before using this machine, all operators must study this manual to understand and follow the safety warnings and instructions. Keep these instructions with the machine for future reference. If you have any questions, contact your local Kirk-Rudy, Inc. Distributor.**

10000-201HD REV. 1 08/11/99

# Manual

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# 1 Important Safety Instructions

**Intended Use Statement:** The Model KR 201 Heavy Duty Imprinter is designed to accurately imprint an almost limitless variety of pieces at controllable speeds of 0 to 20,000 pieces per hour. It accommodates post cards, envelopes, letters, brochures, magazines, flat or folded cartons, etc. and forms requiring single or multiple imprints 3" x 5" minimum, 17" x 16" maximum to 5/8" thick. The unit consists basically of a head assembly, a base assembly and a conveyor. Printing cylinder, inking system and form rollers are contained in the head assembly. Operating controls are mounted on the front panel. Switches for the motor, pump and conveyor are on the left side of the base. A separate self-contained motor drives the conveyor. For this manual, the front of the machine will be the control panel, with left and right sides as seen facing the control panel.

**SAVE THESE INSTRUCTIONS. Read all instructions before using this product.**



## WARNING

- \* NEVER OPERATE THE MACHINE WITHOUT ALL GUARDS OR SAFETY DEVICES IN PLACE.
- \* ALWAYS TURN POWER OFF WHEN MAKING ADJUSTMENTS.
- \* ALWAYS DISCONNECT THE POWER SUPPLY BEFORE ANY MAINTENANCE OR SERVICE WORK.
- \* NEVER START THE MACHINE WITHOUT FIRST CHECKING ALL PERSONNEL ARE CLEAR OF MOVING PARTS.
- \* KEEP FINGERS CLEAR OF ALL MOVING PARTS.
- \* NEVER REMOVE THE PRODUCT FROM THE MACHINE WHILE MACHINE IS RUNNING.
- \* SHOULD MISFED PRODUCT JAM THE MACHINE AND STOP IT FROM RUNNING, ALWAYS PRESS THE STOP BUTTON BEFORE CLEARING PRODUCT. IF THE STOP BUTTON IS NOT PRESSED AND THE JAM IS CLEARED, THE MACHINE WILL BEGIN RUNNING.
- \* IT IS NOT RECOMMENDED THAT LOOSE CLOTHING, JEWELRY AND LONG HAIR BE WORN WHILE OPERATING THIS MACHINERY.
- \* ALWAYS USE AN EXPERIENCED ELECTRICIAN WHEN TROUBLE-SHOOTING ELECTRICAL PROBLEMS.
- \* CHANGES OR MODIFICATIONS TO THIS UNIT NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

**NOTE:** THIS EQUIPMENT HAS BEEN TESTED AND FOUND TO COMPLY WITH THE LIMITS FOR A CLASS A DIGITAL DEVICE, PURSUANT TO PART 15 OF THE FCC RULES. THESE LIMITS ARE DESIGNED TO PROVIDE REASONABLE PROTECTION AGAINST HARMFUL INTERFERENCE WHEN RADIO FREQUENCY ENERGY AND, IF NOT INSTALLED AND USED IN ACCORDANCE WITH THE INSTRUCTION MANUAL, MAY CAUSE HARMFUL INTERFERENCE TO RADIO COMMUNICATIONS. OPERATION OF THIS EQUIPMENT IN A RESIDENTIAL AREA IS LIKELY TO CAUSE HARMFUL INTERFERENCE IN WHICH CASE THE USER WILL BE REQUIRED TO CORRECT THE INTERFERENCE AT HIS OWN EXPENSE. SHIELDED CABLES MUST BE USED WITH THIS UNIT TO ENSURE COMPLIANCE WITH THE FCC CLASS A LIMITS.

## 2 INSTALLATION

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### 2.1 General

- A. The following paragraphs will outline detailed operating instructions.
- B. Place the machine in a space with sufficient work area and ventilation. The machine is movable, with four caster wheels at the bottom of the base.
- C. Provide a 220-volt, 3 wire, single phase, 60-cycle power source for the machine.



### **WARNING**

**Read and follow all Safety Instructions in Section 1, Page 3 before proceeding.**

### 2.2 Setting Up Machine

- A. Electrical Connections: Plug the machine into a three-prong (with ground wire) 220-volt power source. Allow sufficient room between rear of machine and wall for air circulation.
- B. Adjust Guides, Gate and Feed Roller: (S 1-B)
  - 1. Place several pieces of material in hopper between guides. Bring the two sideguides (S 3-15) and the back guide (S 3-17) loosely to your product and tighten the knob. See that your material is in the middle of the vacuum plate.
  - 2. Turn on the vacuum with switch (S 12-18). Turn the handwheel (S 10-2) in operating direction and bring product close to the gate (S 3-14). Turn knob (S 3-13) so that the product has enough room to pass the gate. It must be adjusted so that only one piece of material goes through.
  - 3. Place a piece of material between feed roller and pressure roller (S 9-3). Rotate the two knobs (S 3-10) to bring the pressure rollers in even contact with material. Pressure must be firm, but not tight.
- C. Adjust Feeder Chain: Loosen screw (S 10-3) on hand wheel. Feed one product by hand so far that the end of the product is about 6" past the feed rollers. Turn screw (S 10-22) touches the end of the product. Tighten screw (S 10-3) and bring the product to the middle of the base. Bring the side guide (S 3-5) loosely to the product and tighten these knobs. Fix the springs (S 3-5) onto shaft (S 3-6) and adjust them so that they slightly touch the product. Adjust the height (S 6-5) so that the product can easily pass through the rollers (S 5-21 and 23). Put several products in the feeder and see that the machine operates smoothly.
- D. Plate Cylinder: (S 1-C) With the Model KR 201 it is possible to have many different kinds of plate cylinders. (An 8" wide is standard-14" is optional.) They can use stick-back or flexible brass mounted rubber plates or electrotypes, linotypes and handset type for crash imprinting. To bring your at the right spot on your product you have to loosen screw (S 5-1) and nut (S 6-25). You now can move your cylinder sideways and circumferentially to bring your rubber plate in the right printing position.
- E. Inking System: (S 1-D). How to adjust it: Turn the eccentric shaft (S 7-28) off with the lever and take the shaft and the upper form roller out. Loosen the screw at the

lower sector (S 7-25) and turn the sector to the off position. Put ink in the fountain and ink up the inking system at a low speed. Adjust the fountain blade (S 4-5) with setting screw (S 4-4) so that the lower form roller has enough ink at the plate. Turn sector (S 7-25) so fat that the plate has sufficient ink. If you adjust it without products it is necessary to clean the plate. When the form roller is in the right position tighten sector with the setting screw. Repeat steps for the upper form roller after having taken the lower form roller out. Put both form rollers in. Run your machine at low speed and turn your height adjustment (S 6-5) down so that you have a good print. The final setting of the blade and speed of ductor should be done when the machine runs at the production speed. The picking up time of the ductor can be adjusted with cam (S 6-15).

- F. Conveyor: (S 1-E,F,G). Loosen shaft (S 11-5) on block (S 11-4) and let the machine run with the conveyor. Adjust the shaft until you get an even delivery. Distance between the products can be adjusted by varying the speed of the conveyor. It is recommended to keep the distance so that the print is not covered in sector (S 1-F). Taking the products off the delivery is done in sector (S 1-G).
- G. Control Panel: (S 1-K). The control panel is placed across the front of the machine and contains controls for operation of the power components. The following controls are located in the panel:
1. Operating switches: Three knobs, mounted along the top front of the table, control machine operation. The left one, marked STOP will stop the motor, the one in the center, marked JOG, will operate the machine as long as it is pressed down. The right one, marked START, when depressed starts the drive motor and operates the machine.
  2. Variable Speed and Sensitivity Switch: The first one to the left adjusts the speed of the machine, the second adjusts the speed of the conveyor and the third one the photocell sensitivity.
  3. Four Light Bulbs: The first one on the left indicates that the main switch is on, the second one indicates the power of the vacuum pump, the third one indicates the power of the conveyor, and the fourth one tells if the solenoid is engaged.
  4. Counter: a micro switch controlled by a cam (S 8-11) actuates A counter, which can be reset to zero. As each piece passes under the printing cylinder, a pulse is sent to the counter, which records the count. Thus an accurate count of the number of imprinted pieces is kept for recording purposes.
- H. Switches: (S 1-M)
1. Drive Motor Switch: This switch controls the main electrical line to the machine and must be on to operate any part of the machine.
  2. Vacuum Pump Switch: This switch starts and stops the vacuum pump for the feeder.
  3. Conveyor Drive Switch: This switch controls operations of the conveyor drive motor. It has three positions: Switch up (the motor is on all the time), Switch middle (the motor is off), Switch down (the motor is running only when machine is running.)
  4. Solenoid Switch: The last switch in the row is to turn on or off the photocell for the solenoid which in turn throws the impression cylinder out of

impression if there is no product. To avoid offsetting on the impression roller the switch should be in on position. If you run a thick product it is not necessary for the plate cylinder is not touching the impression cylinder anyway.

5. Two Reset Switches: Each of the above drive motors is protected from overloads by fuses. To protect the whole machine there are the two circuit breakers. If the circuit breaker cuts out the red light on the front panel will go off. To place motor back in operation press the reset switch.

## 3 MAINTENANCE

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### 3.1 General

The following adjustments may be adjustments required to operate the machine. Operating personnel can perform these adjustments. It also provides information how to change certain parts of the machine and the resetting.

### 3.2 Feeder Adjustment

- A. General: Adjustment of vacuum and lower feed rollers is preset at the factory and should require no changes.
- B. Vacuum: To change vacuum timing you have to open the base doors to gain access to vacuum valve (S-9). The models delivered until the end of 1969 have a vacuum system which is controlled by a cam (S 9-15). This cam has to be adjusted on the shaft (9-16) so that the vacuum comes on 1/8" before the plate has already passed the gate. Models delivered from beginning 1970 have a shaft, which closes the vacuum valve spring underneath the vacuum plate. On this shaft are two rubber rings with a collar. In adjusting these collars you do the same thing as with the old cam. There are three different vacuum plates. For heavy products, we recommend the flat plate, for leaflets, the shallow one and for single sheets like postcards we recommend the deep one. To adjust the vacuum pressure you take the product you are running and fold once. If the vacuum sucks the folded part down too, you have to reduce the air pressure on the regulator pump.
- C. Lower Feed Roller Adjustment: These rollers are under spring tension (S 10-10) and timed by a cam (S 9-15), are moving up and down. By replacing them, the timing has to be redone. How to replace them:
  - 1. Loosen screw which holds the lever (S 10-11) onto the shaft
  - 2. (S 10-12) and the screw which holds the follower cam (S 9-15) so that the rollers drop down.
  - 3. From the front side of the machine, after loosening the set screws you knock the shaft (S 9-4) out, replace the feed rollers and retime them.
  - 4. Turn the upper feed roller up.
  - 5. Push your lower feed roller as far up as possible, tighten the screw which holds the lever (S 10-11) onto the shaft (S 10-12) so that the spring is under tension.
  - 6. Press the lower feed roller down, so that they are 1/32" over the tabletop, tighten the screw which holds the follower cam (S 9-15). The follower cam now has to be on the lower part of the cam.
  - 7. Adjust the cam so that the feed rollers come up a little bit after the vacuum shuts off.
- D. Upper Feed Roller Adjustment: To replace the upper feed roller, the following steps have to be done:
  - 1. Take the two knobs (S 3-12) off, take the plate in front of the feeder gate off.
  - 2. Unscrew the two screws that are under the knobs (S 3-12), so that the upper feed roller holders are free. Slide them out, knock the shaft out, replace the feed roller and put it back again.

When setting the upper feed rollers you have to check that both apply the same pressure on your product. You do not need too much pressure, just enough that you feed your product out of the feeder.

### **3.3 Impression Throw Out Setting**

- A. General: It is necessary to bring the impression cylinder out of contact with the plate cylinder when no material is present to receive a print. This device is especially necessary when feeding thin products. If the impression cylinder would not go out of contact you would print onto the impression cylinder and your next product would show offsetting. A light source, mounted in the base directs a light beam into a photocell mounted on the gate casting. If the light beam is not broken by a piece of material passing between the light source and the photocell at the proper time, the photocell circuit energizes a solenoid and the solenoid throws the impression cylinder out of contact with the plate cylinder. A micro switch actuated by a timing cam controls the timing of this device (S 8-11). A knob on the front panel of the machine adjusts sensitivity of the photocell. It may be necessary to adjust the sensitivity depending on the density of the material.
- B. Adjustment:
1. The cam should actuate the micro switch when the material has traveled halfway through the light beam.
  2. If due to a change in the product, the material does not pass the beam at the proper time, the cam timing should be adjusted.
  3. Loosen the set screws securing the timing cam to the shaft. Rotate the cam on the shaft to advance or retard the timing of the switch and photocell. Rotating the cam clockwise will advance the timing, rotating it counterclockwise will retard the timing. This adjustment has to be made when the solenoid is not engaged.
  4. The sensitivity of the photocell should be adjusted if thin material is to be printed. Decrease the sensitivity of the photocell for lighter materials.

### **3.4 Skid Bar Adjustment**

- A. General: The KR Model 201 has a skid bar that primarily transports the product, and secondarily it activates a micro switch in case of a jam up.
- B. Adjustment:
1. The skid bar runs in the middle of the machine over the timing belt. It should run just slightly over the product, no pressure, otherwise you will overfeed your product and you lose your register.
  2. Connected to the skid bar is the microswitch. The machine does not run when this micro switch is closed. Adjust it with the screw.
  3. If there is a jam, the skid bar lifts and opens the micro switch, automatically, the whole machine then stops.



### **3.5 Feeder Pusher Adjustment**

- A. General: The product is pushed with one to three pushers that are fixed to the chain (S 10-22). Depending on the size of your product you can use all three chains with their pushers or only two chains. It is important that these pushers are parallel. To adjust that, you have to loosen the set screws on the sprockets (S 10-20) and (S 10-32). They have to be parallel on a right angle to the machine. If you want to take one pusher away, you loosen the screw in the pusher, bring it under the table by turning the machine by hand, and push it out sideways.

### **3.6 Impression Cylinder**

- A. General: The impression cylinder (S 5-19) is mounted on an eccentric shaft. The cylinder is perfectly set at the factory. If for some reason, this setting is out of line you have to loosen the screw of the arm throw out (S 8-19) and to set the eccentric shaft (S 8-13) so that the impression cylinder is coming out of the table plate about 3/64". Tighten the eccentric shaft at the arm throw out. If the solenoid is not working the arm throw out had been changed when tightening. In this case loosen the screw at the arm once more, hold the shaft with key at the greasing point and adjust the arm.

### **3.7 Transport Rollers**

- A. General: Before the product enters the imprinting unit there are 3 transport rollers (S 5-23) with counter pressure roller (S 5-21). These rollers have the same speed as the impression unit. The pressure of all the rollers has to be the same. The counter pressure roller is mounted on a shaft (S 5-15), fixed to the imprinting unit.
- B. Adjusting: To adjust them you have to loosen the screws of the counter pressure rollers and turn the height adjustment up. Mount a plate on the plate cylinder and turn the machine so that the plate is over the impression cylinder. Put a piece of paper in between plate and impression cylinder and turn the height adjustment down, so that the plate cylinder touches the paper. No pressure. Take the same paper and put it between transport rollers and counter pressure rollers. Adjust the counter pressure rollers. Adjust the counter pressure rollers so that the paper is also in contact. Again, no pressure. As more even this setting is, the better is your register. This setting is only necessary when changing the thickness of your plates. The thickness of your product does not alter the settings.

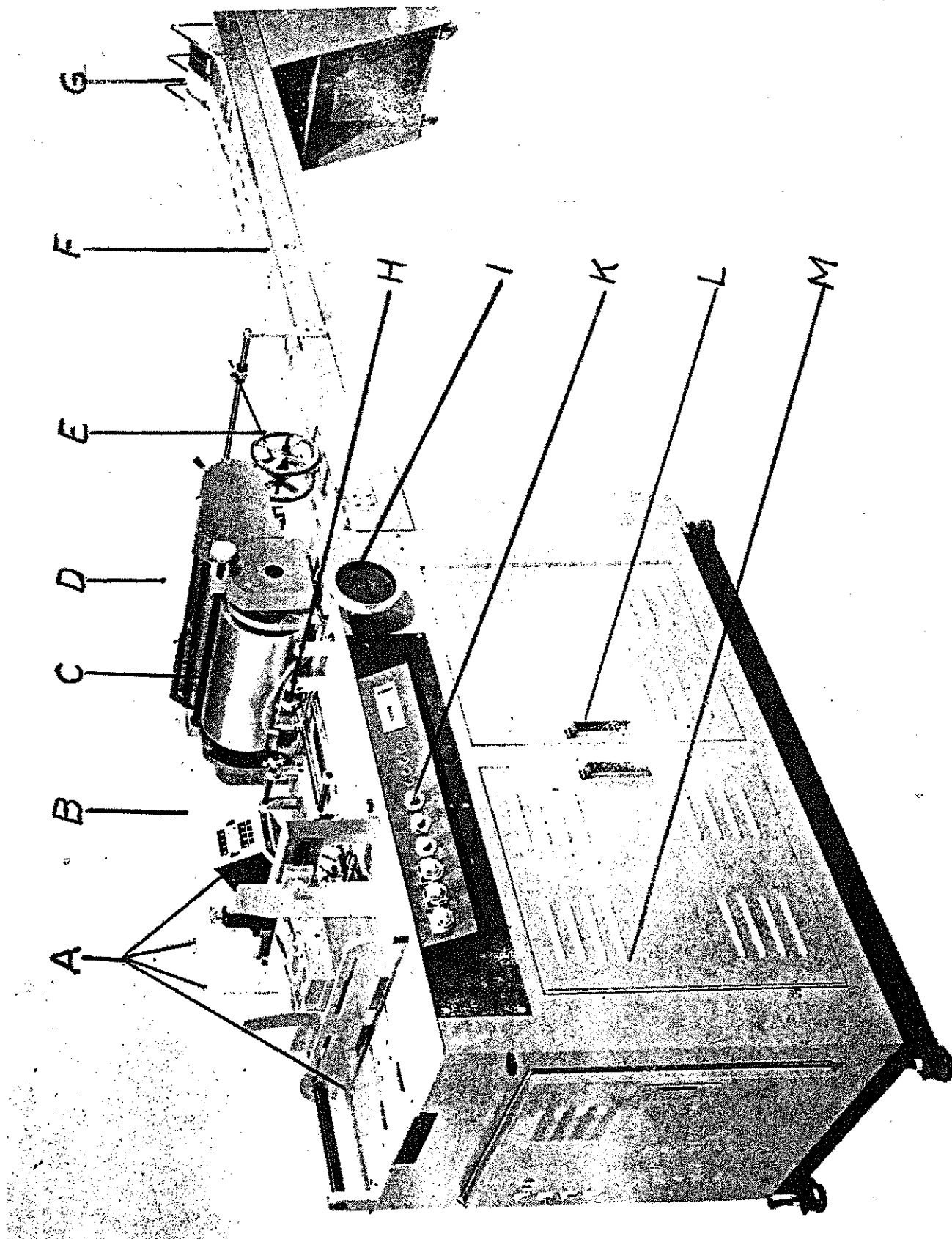
### **3.8 Height Adjustment**

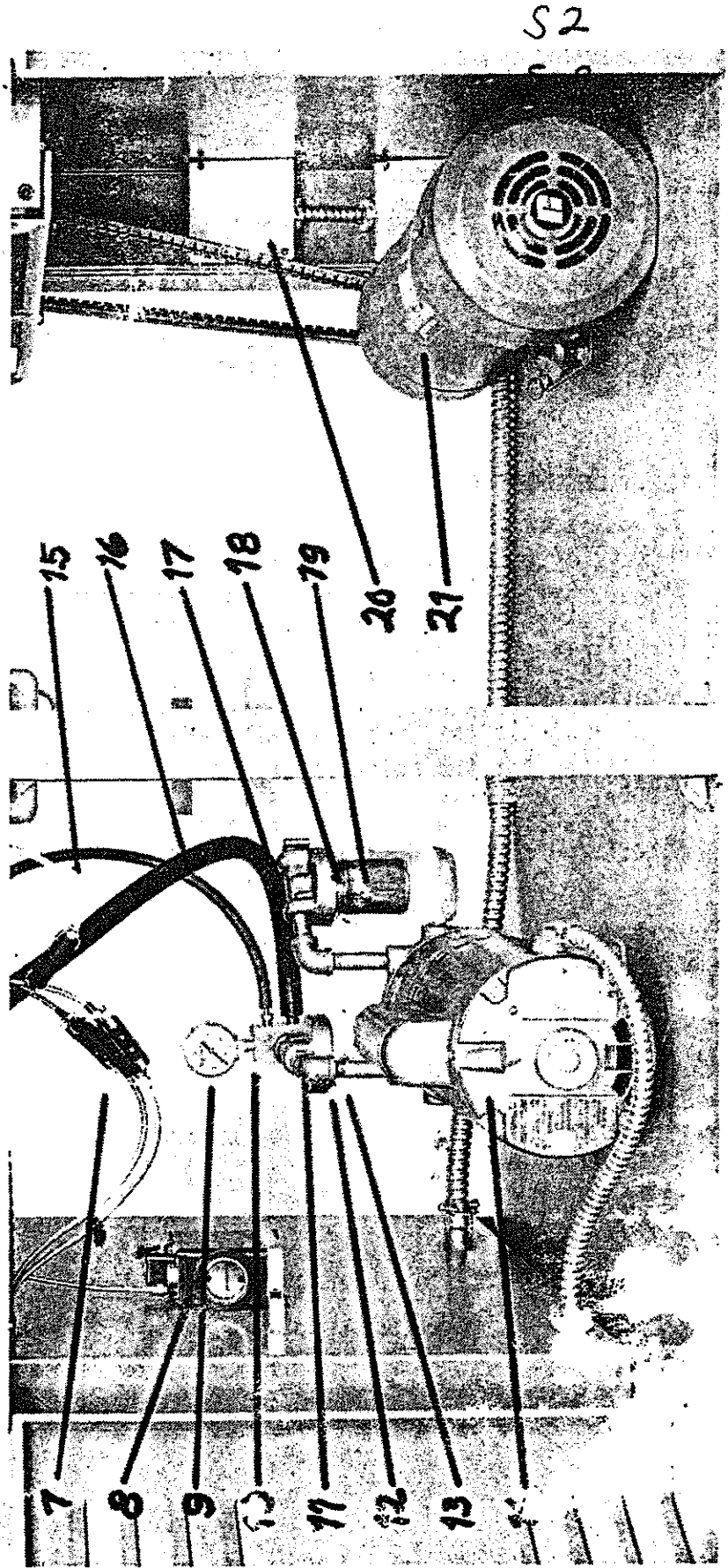
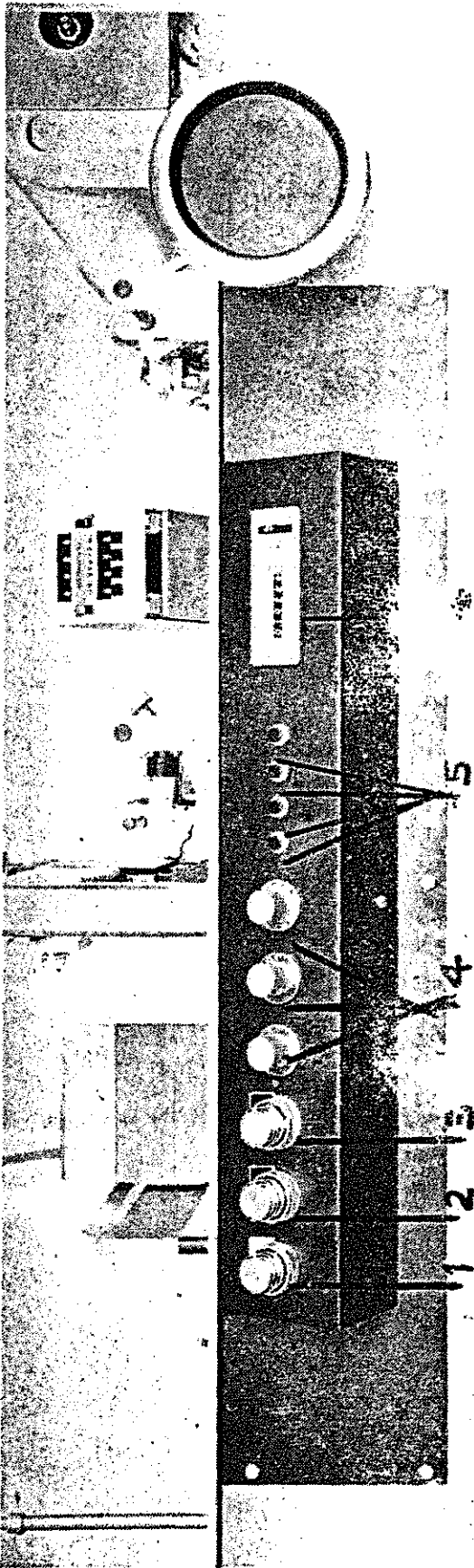
- A. General: With the handwheel (S 6-5) you adjust the impression to the product. At the same time you can adjust the impression to the product. At the same time you can adjust the parallel adjustment of your plate cylinder. Shaft (S 4-12) is connected to the gears with two collars. If the cylinder is not parallel you loosen the screw of the collar of the side which is lower, turn the whole plate cylinder down until the two sides are parallel again.

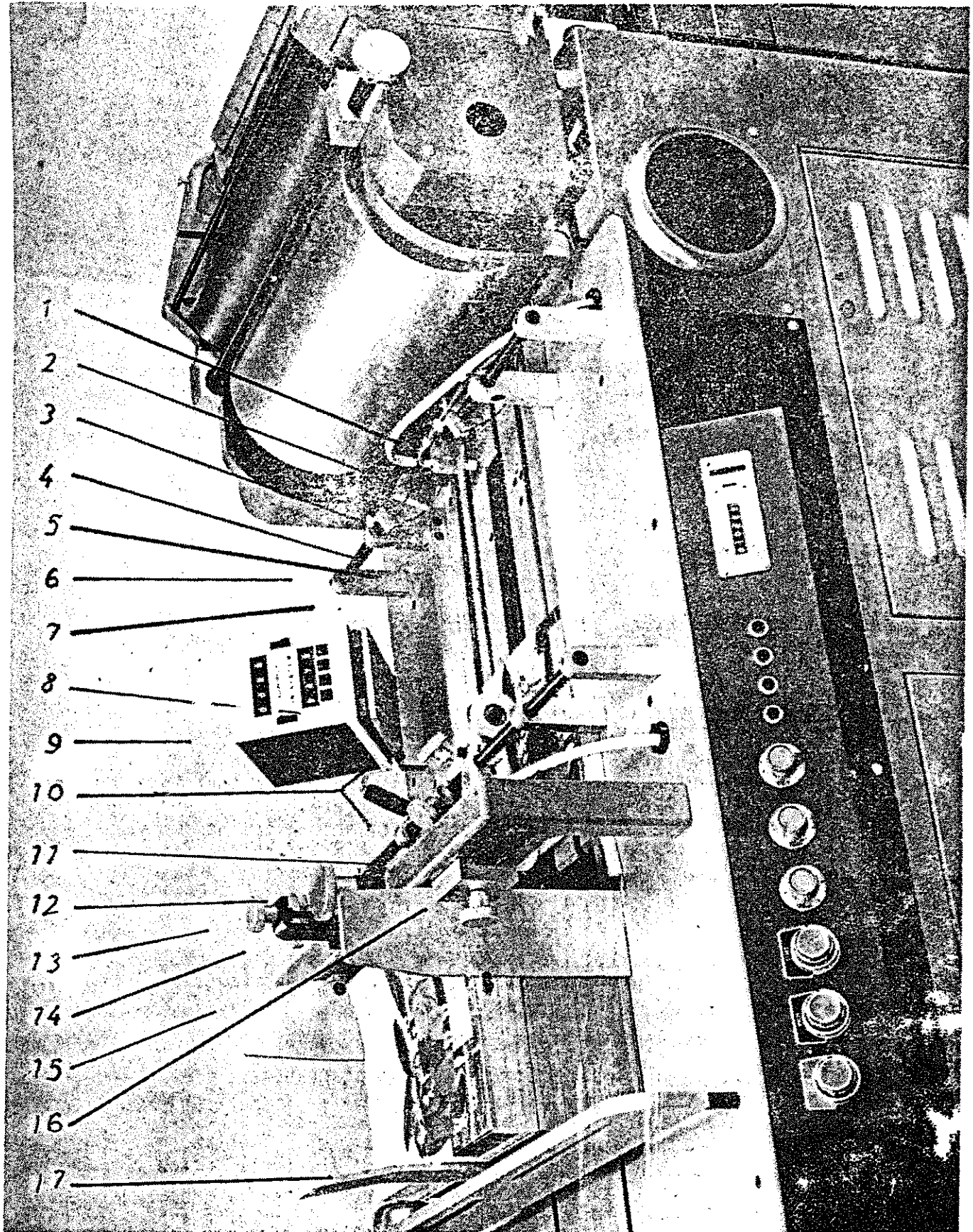
### **3.9 Lubrication**

#### **A. General:**

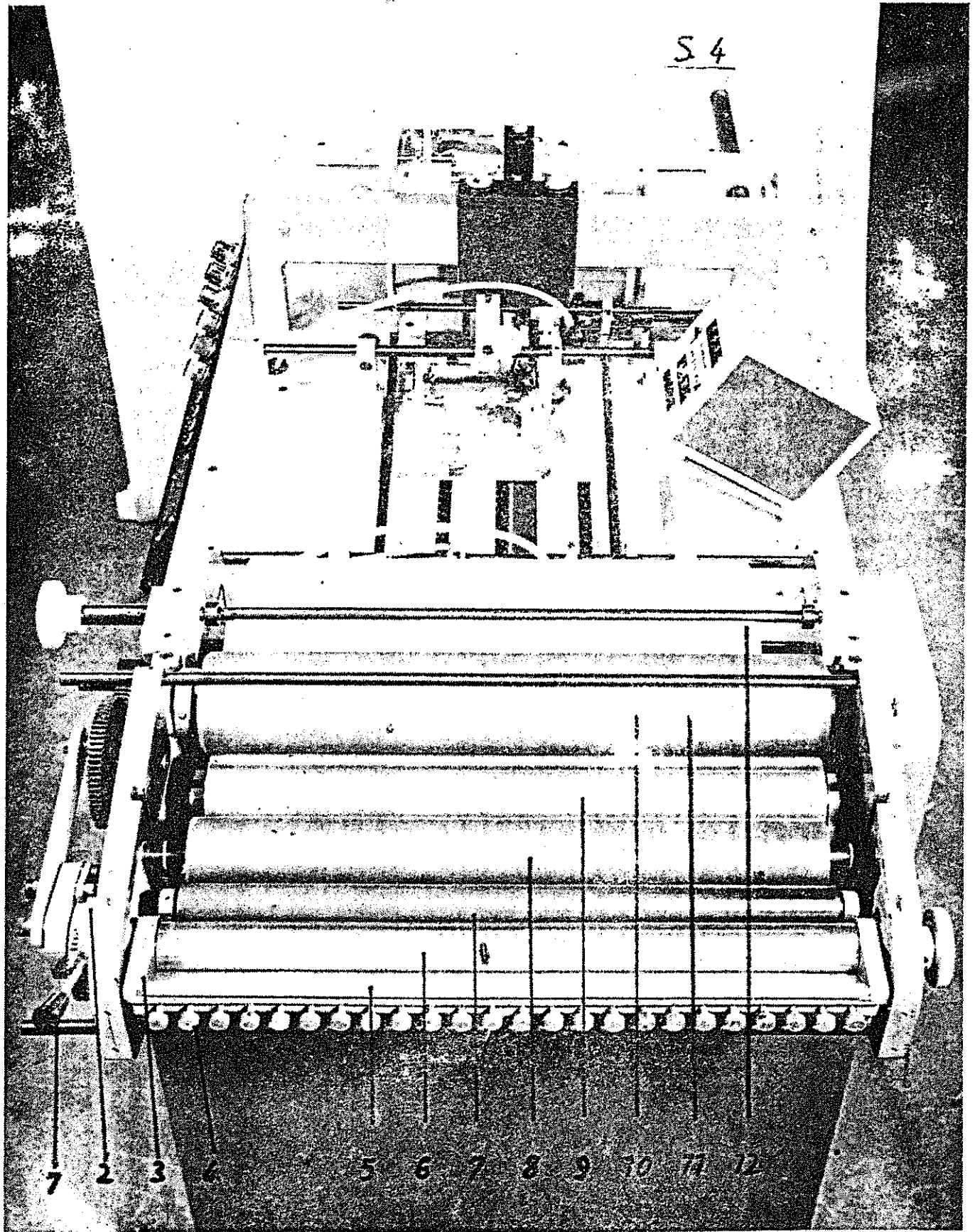
1. The Model KR 201 imprinting machine is built with a central lubrication system service at one point to reduce maintenance. At least every hour you should press the oil lever. The oil container has a built in glass that allows you to check the amount of oil left. If the oil goes below the mark you should add machine oil SAE 20 non-detergent.
2. The printing unit and the inking system are not connected to the central oil systems. You should see that the shaft holders are always oiled with light machine oil.
3. When setting the form rollers it is necessary to oil the whole shaft. The ductor roller shaft has oil nipples and you should add oil when necessary.
4. The clutch (S 7-2) does not need oiling.







S 4



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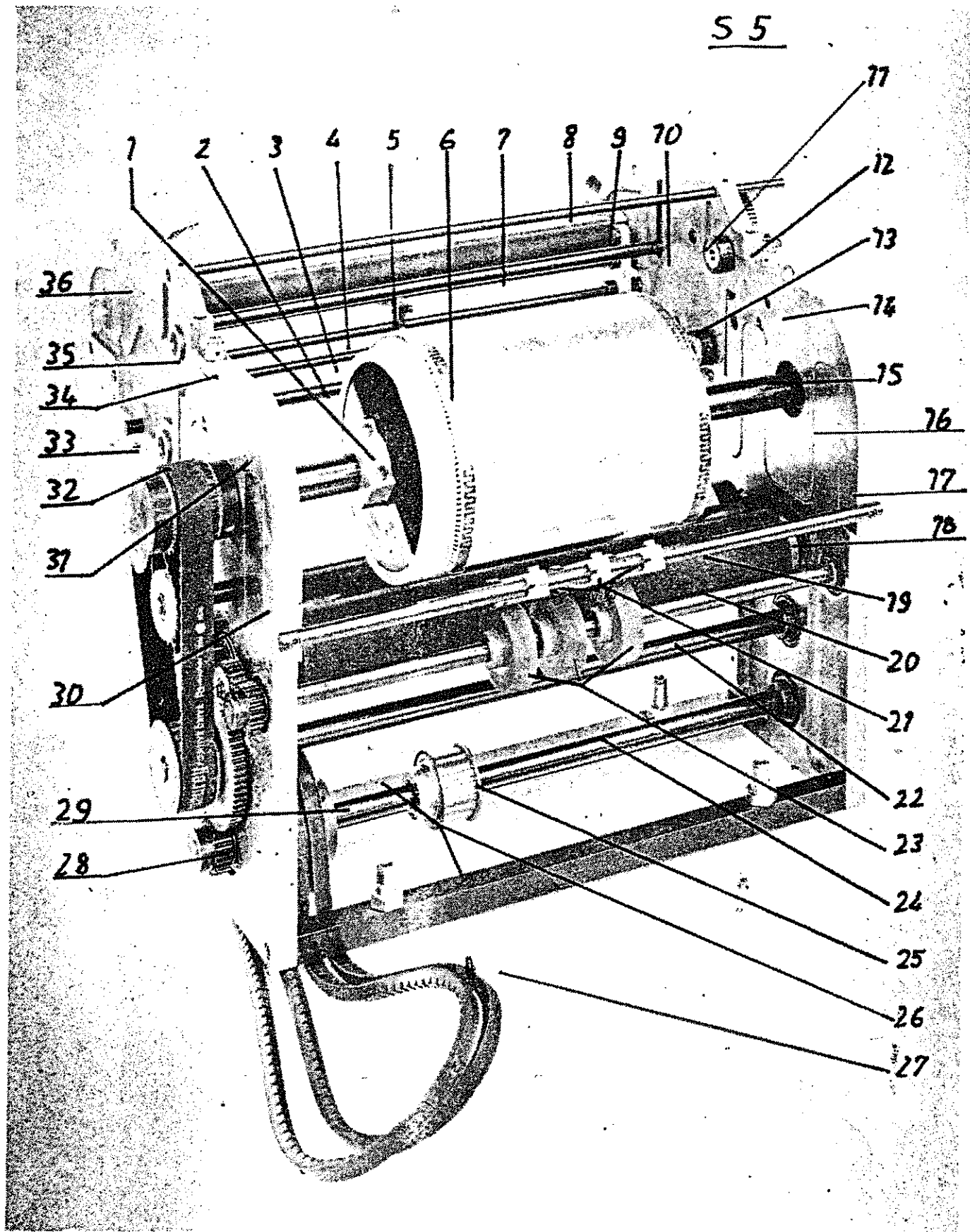
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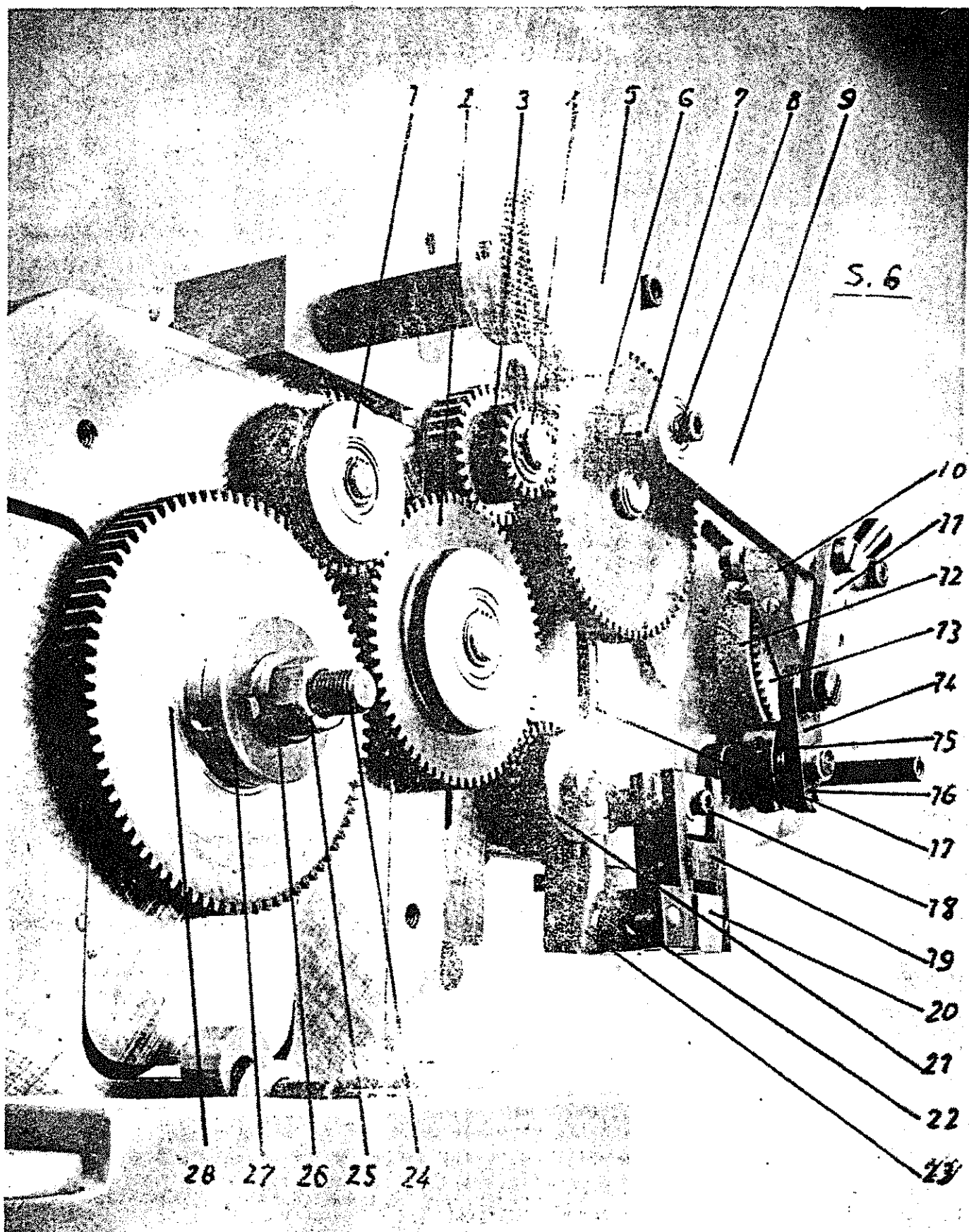
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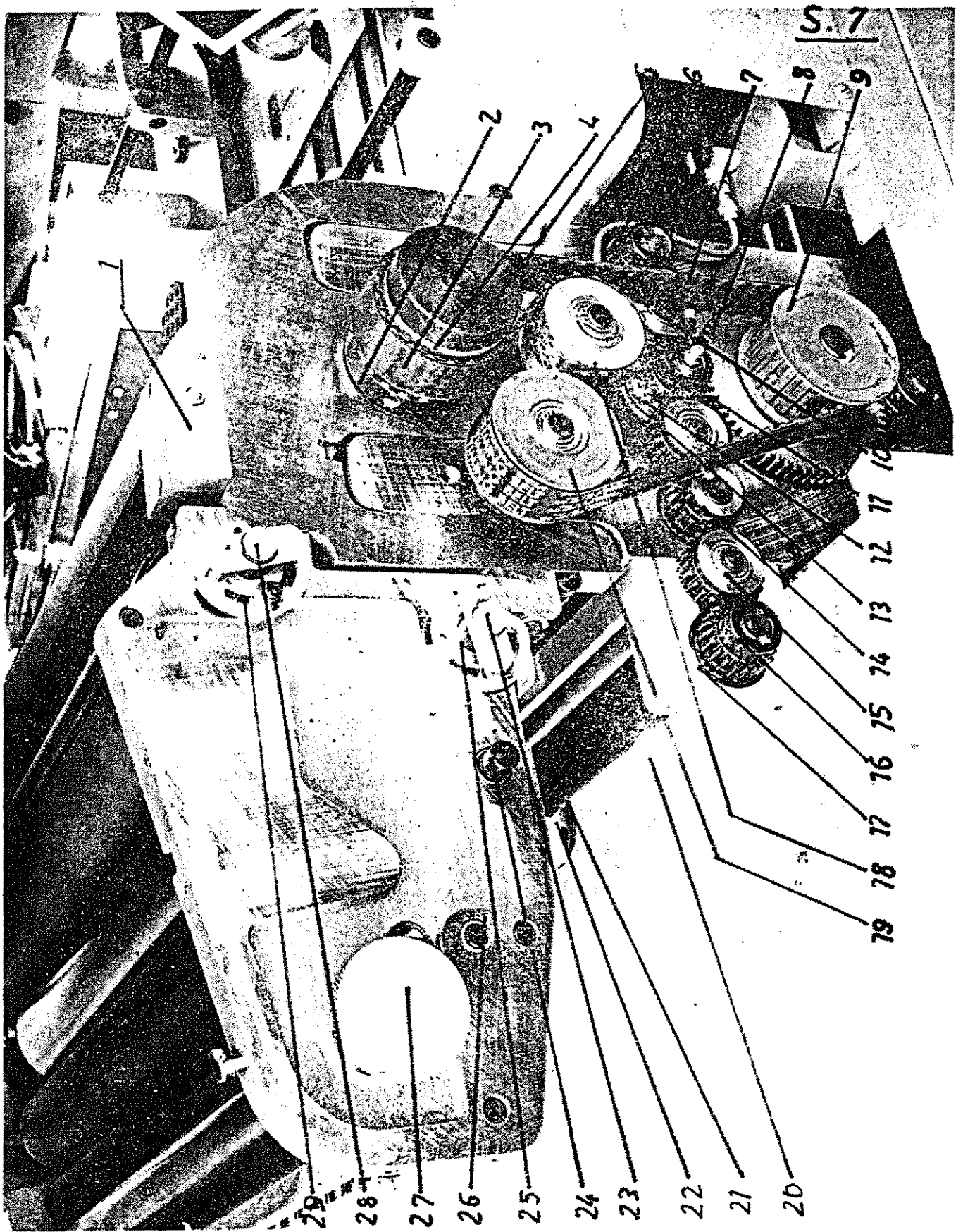
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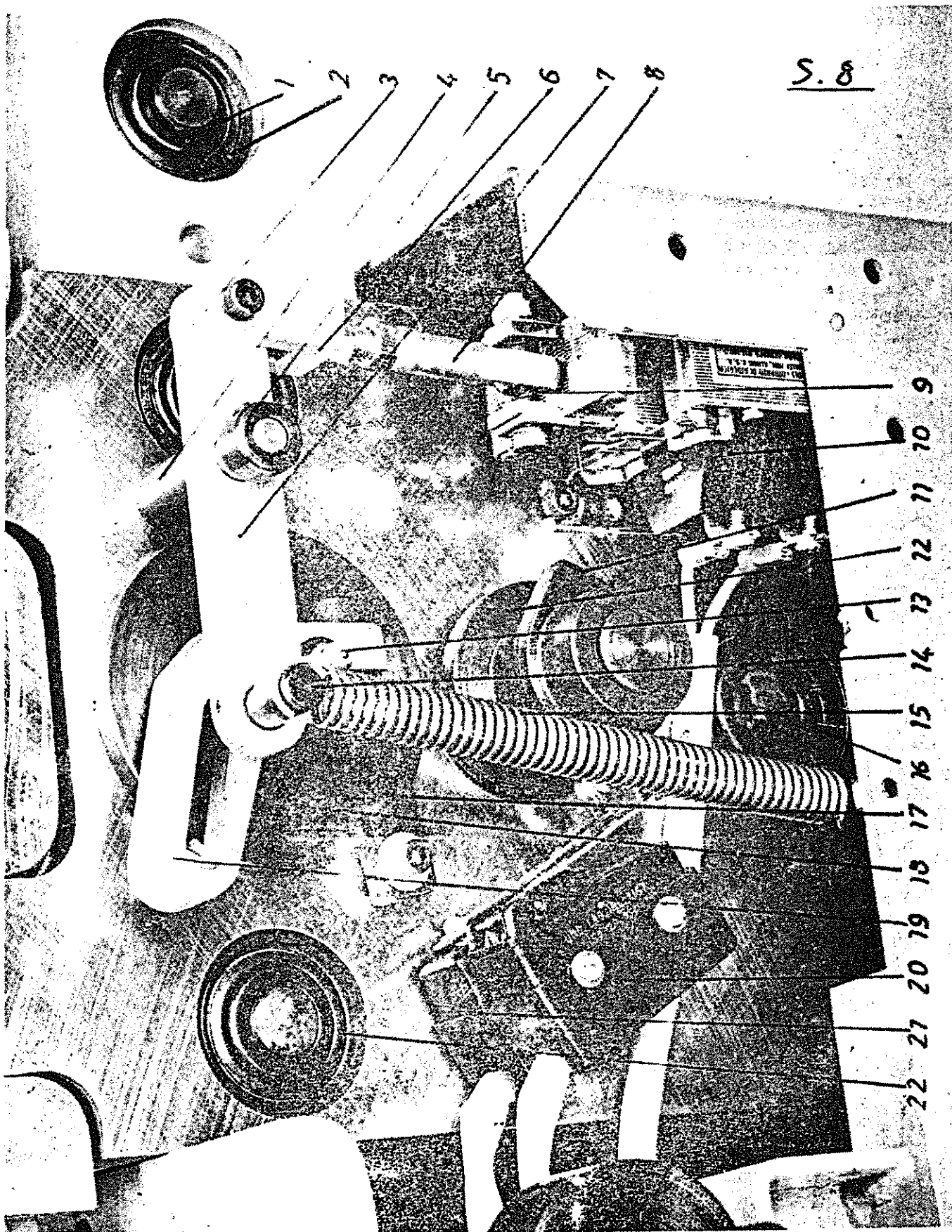






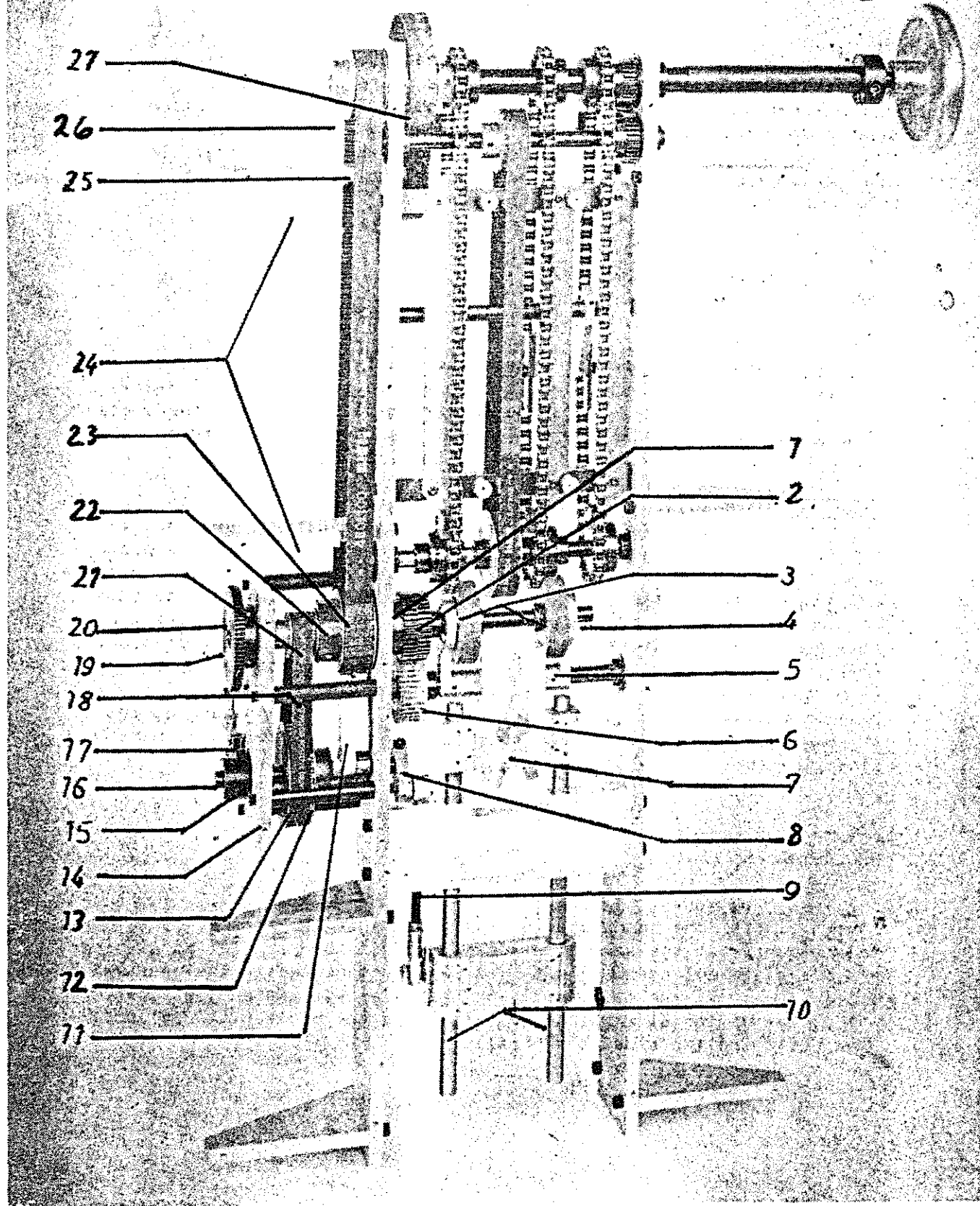


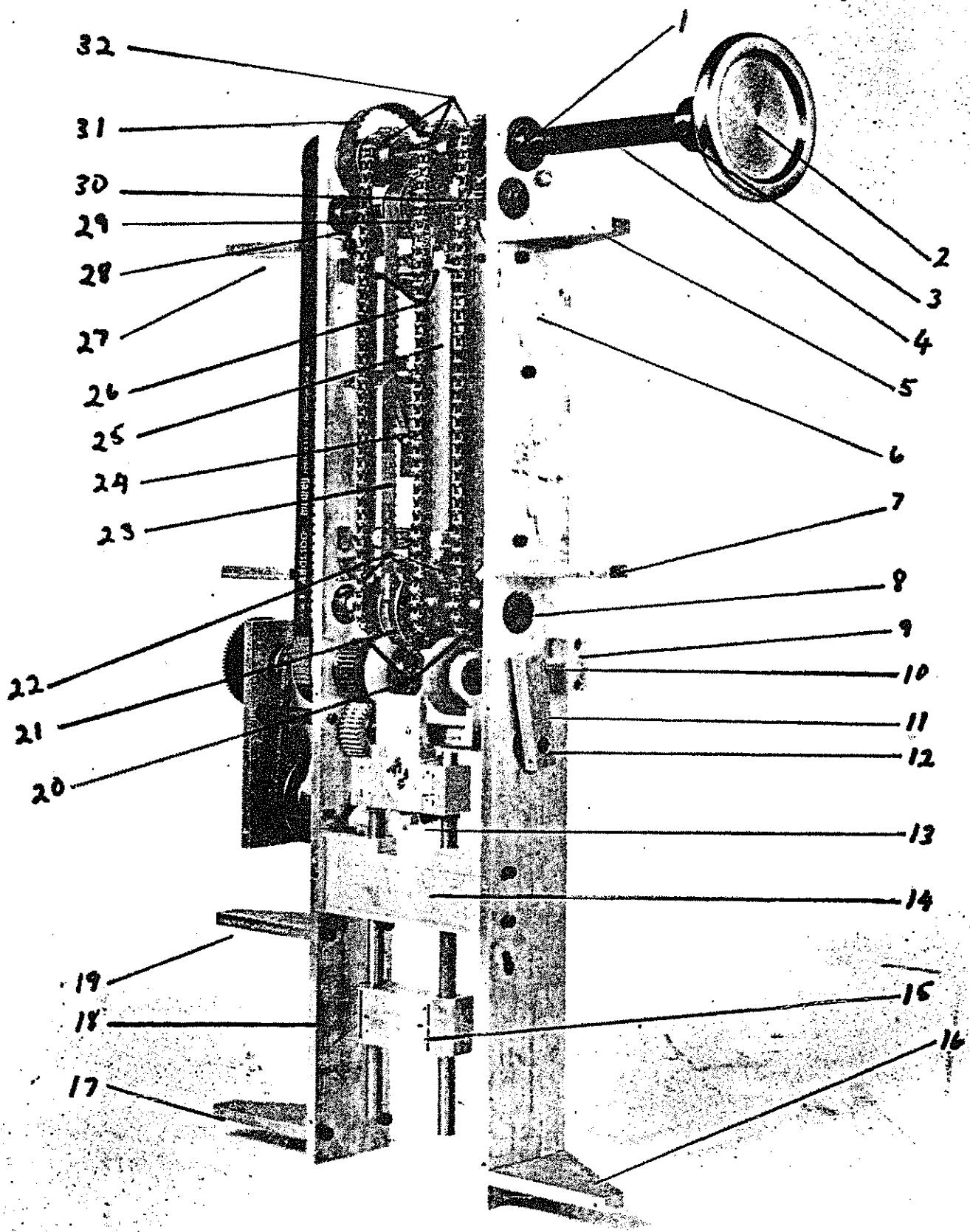




S. 8

22 21 20 19 18 17 16 15 14 13 12 11 10 9





## 4 PARTS LISTS AND DIAGRAMS

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### Imprinter Base

Item	Qty	Part #	Description
1	1	501600	ASSEMBLY DRAWING
2	1	501602	FRAME, BEARING RH.
3	1	501603	FRAME, BEARING LH.
4	1	501604	PLATE, TOP RH.
5	1	501605	PLATE, TOP LH.
6	1	501606	PLATE, TOP
7	1	501607	PLATE, TOP
8	2	501608	BAR, FRAME SPACER
9	1	501609	SPACER, REAR
10	1	501610	PLATE, BEARING
11	1	501611	CHANNEL, SKID
12	1	501612	SHAFT
13	1	501613	RAIL, GUIDE LH.
14	1	501614	RAIL, GUIDE RH.
15	1	501615	SHAFT, HOLD DOWN
16	1	501616	LEVER, SHAFT
17	6	501617	BLOCK, PUSHER
18	1	501618	DEFECTOR, GREASE
19	2	501619	BRACKET, TOP REAR
20	5	501620	BRACKET, TOP SUPPORT
21	1	501621	ANGLE, GUIDE
22	1	501622	SPACER, BEARING R.
23	3	501623	SPACER, BEARING
24	6	501624	SPACER, TOP REST
25	1	501625	BLOCK
26	2	501626	GUIDE, STRIP
27	2	501627	GUIDE, STRIP
28	2	501628	CLAMP, GUIDE STRIP
29	2	501629	CLAMP, GUIDE STRIP
30	1	501630	BAR, COUNTER SUPPORT
31	1	501631	PLATE, COUNTER
32	1	501632	SHAFT
33	1	501633	SHAFT, LOCKING SLEEVE
34	1	501634	SHAFT, PIVOT FEED ROLLER
35	1	501635	SHAFT, STATIONARY

Item	Qty	Part #	Description
36	1	501636	SHAFT, BRIDGE DRIVE
37	1	501637	SHAFT, FRONT
38	1	501638	SHAFT, FEEDER ROLL
39	1	501639	PLATE, BRIDGE BACK
40	2	501640	ANGLE, CHAIN GUARD
41	1	501641	STUD, IDLER GEAR
42	3	501642	LEVER
43	3	501643	PLATE
44	1	501644	PLATE, BELT REST
45	1	501645	BLOCK, CONNECTOR
46	1	500704	BRIDGE, FEEDER
47	1	500705	PLATE, FEEDER
48	1	500706	FEEDER, ASSY
49	1	500708	BODY, VACUUM VALVE
50	1	500709	PLATE, VACUUM FEEDER
51	1	500714	BRIDGE, REAR GUIDE
52	1	500715	PLATE, REAR GUIDE
53	1	500726	SHAFT, UNIVERSAL ASSY
54	1	500728	BRACKET, FEEDER
55	1	500729	CRADLE, FEEDER
56	1	500730	PLATE, GATE FEEDER
57	1	500734	LEVER, CAM
58	1	500735	ROD, PUSH
59	2	500736	COLLAR, STOP
60	2	500737	WASHER, BUMPER
61	1	500738	SPRING, VALVE
62	1	500739	BLOCK, PUSHER
63	1	500740	PLATE, VACUUM
64	2	500741	SHAFT, FEEDER
65	1	500743	SHAFT, TOP ROLLER
66	1	500744	SHAFT, TOP ROLLER
67	2	500745	ROLLER, TOP
68	2	500746	ROLLER, BOTTOM FEED
69	1	500747	CAM, FEED ROLLER
70	1	500750	CRANK, FEEDER SLIDE

Item	Qty	Part #	Description
71	1	500751	YOKE, FEEDER CRANK
72	2	500755	CLAMP, SIDE GUIDE
73	2	500760	LIFTER, FEEDER PUSHER
74	2	500762	PLATE, FEEDER PUSHER
75	2	500764	LIFTER, REAR BRIDGE
76	1	500765	SPACER, REAR BRIDGE
77	2	500766	SCREW, MACH. GUIDE
78	1	500767	KNOB, REAR GUIDE ASSY
79	1	500768	BRACKET, REAR GUIDE
80	1	500769	SHAFT, REAR GUIDE
81	1	500770	HUB, SHAFT, REAR GUIDE
82	2	500771	CUP, REAR GUIDE
83	2	500775	PLATE, FEEDER PUSHER
84	1	500785	BLOCK, SPRING
85	1	500786	LEVER SPRING
86	2	500787	SHAFT, SIDE GUIDE
87	1	500788	PLATE, SIDE GUIDE RH.
88	1	500788	PLATE, SIDE GUIDE LH.
89	2	500789	KNOB
90	2	500790	KNOB, ASSY, SIDE GUIDE
91	4	500791	POST, SIDE SUPPORT
92	4	500792	POST, SIDE GUIDE
93	4	500793	LOCK, SIDE GUIDE
94	1	500797	SHAFT, P.C. HOLDER
95	1	500798	HOLDER, P.C.
96	1	500799	CLAMP, P.C.
97	1	500800	LINK, SKID, FRONT
98	1	500801	LINK, SKID, REAR
99	1	500802	HOLDER, SKID SWITCH
100	1	500803	SHAFT, UNIVERSAL JOINT
101	2	500805	PLATE, HOLD DOWN
102	1	500806	PLATE, GATE END
103	2	500807	NUT, LOCK
104	1	500808	PLATE, TOP
105	2	500809	SLEEVE, TOP ROLLERS

Item	Qty	Part #	Description
106	1	500810	SHAFT, SCREW ADJ.
107	2	500811	FORK, ASSY
108	2	500812	KNOB, ROLLER ADJ.
109	2	500814	RAIL, SIDE GUIDE
110	1	500830	SHAFT, UNIVERSAL DRIVE
111	1	500831	HUB, BEARING
112	1	500832	BRACKET, REAR GUIDE
113	1	500833	KNOB, SKID ADJ.
114	3	500834	SHAFT, SKID ROLLER
115	1	100113	BUSHING
116	1	100115	BUSHING
117	4	100323	BUSHING
118	1	100401	WASHER, THRUST
119	1	100601	WASHER, FLAT
120	4	100602	WASHER, FLAT
121	1	100604	WASHER, FLAT
122	1	100701	WASHER, LOCK
123	2	100800	JOINT, UNIVERSAL
124	2	101100	BEARING, CLUTCH
125	1	101707	GEAR
126	1	101708	GEAR
127	1	101905	GEAR, IDLER
128	2	101906	GEAR, FRONT SHAFT
129	1	101907	GEAR, ADJ. SLEEVE
130	1	101909	GEAR, FEED ROLLER
131	1	101910	GEAR, FEED ROLLER
132	1	101911	GEAR, FEED ROLLER
133	1	102108	WHEEL, HAND
134	1	102200	COLLAR
135	1	102201	COLLAR
136	1	102202	COLLAR
137	1	102205	COLLAR
138	1	102312	SPACER
139	2	102700	SPRING, COIL
140	3	102701	SPRING, COIL



Item	Qty	Part #	Description
141	6	103106	BEARING
142	4	103110	BEARING
143	2	103112	BEARING
144	1	103206	BEARING
145	1	103400	FOLLOWER, CAM
146	1	103405	FOLLOWER, CAM
147	1	103500	BEARING
148	2	103801	BEARING
149	1	103802	BEARING
150	8	103804	BEARING
151	1	103808	BEARING
152	1	103810	BEARING
153	2	104100	RING, RETAINER
154	1	104202	RING, RETAINER
155	1	108802	PULLEY, TIMING
156	1	108803	PULLEY, TIMING
157	1	108804	PULLEY, TIMING
158	1	108805	PULLEY, TIMING
159	1	108808	PULLEY, TIMING
160	1	108809	PULLEY, TIMING
161	1	108810	PULLEY, TIMING
162	1	108814	PULLEY, TIMING
163	1	108902	BELT, TIMING
164	1	108903	BELT, TIMING
165	1	108904	BELT, TIMING
166	1	108905	BELT, TIMING
167	1	109503	TUBING, COPPER
168	1	109504	ELBOW
169	1	109505	TEE, INT.
170	6	109506	TEE, EXT.
171	1	109507	ELBOW
172	10	109508	FITTING
173	1	109509	FITTING
174	4	109510	FITTING
175	3	110001	CHAIN, SPROCKET

Item	Qty	Part #	Description
176	3	110005	ATTACHMENT, CHAIN PUSHER
177	3	110300	SPROCKET
178	3	110302	SPROCKET
179	1	190101	SWITCH, MICRO (SKID)
180	3	190202	BUSHING
181	1	190600	SPIDER
182	2	190612	TY, RAP
183	2	190610	TY, RAP

## Imprinter Head

Item	Qty	Part #	Description
1	1	500300	HEAD, FINAL ASSY
2	1	500301	PLATE, MTG. RH.
3	1	500302	PLATE, MTG. LH.
4	1	500303	HOLDER, DRUM
5	1	500304	PLATE
6	1	500305	CRADLE, UPPER LH.
7	1	500306	GUARD, GEAR SIDE
8	1	500307	COVER, GEAR, FRONT
9	1	500308	CRADLE, UPPER RH.
10	1	500309	HOLDER, DRUM EXT.
11	1	500310	CLAMP, COUPLING
12	1	500311	DISC., DRUM HOLDER
13	1	500312	ROLLER ASSY
14	1	500313	SHAFT, DRUM
15	1	500314	ROLLER, PLATEN
16	1	500315	SHAFT, ECCENTRIC
17	1	500316	COUPLING, HD. DRIVE
18	2	500317	PIN, SPRING
19	1	500318	SHAFT, FEED ROLLER
20	1	500319	CLAMP, BLACK, DRUM HOLDER
21	2	500320	HOUSING, WORM GEAR
22	3	500321	ROLLER, FEED
23	4	500322	STUD, IDLER GEAR
24	1	500323	ADAPTER, KNOB TO SHAFT
25	4	500324	SHAFT, THREADED
26	3	500325	ARM, ROLLER
27	1	500326	SHAFT
28	2	500327	SHAFT, WORM GEAR ASSY
29	1	500328	ROD, THREADED
30	1	500329	TUBE, ROLLER
31	1	500330	HUB, ROLLER
32	1	500331	HUB, ROLLER
33	2	500332	BAR, MAIN PLATE SPACER
34	1	500333	CAM, COUNTER
35	1	500334	HUB, CLUTCH RETAINER

Item	Qty	Part #	Description
36	2	500335	SHAFT, PINCH ROLLER
37	2	500336	DISC., FRICTION
38	1	500337	CLEVIS, SOLENOID
39	1	500388	ASSY, SHAFT FRICTION CLUTCH
40	3	500339	ROLLER, ARM
41	2	500340	HUB, PLATEN
42	2	500341	SHAFT, LIFT
43	1	500342	CAM, GATE
44	1	500343	SLEEVE, BEARING
45	1	500344	SHAFT, CAM
46	1	500345	WASHER, DRUM ADJ.
47	2	500346	BLOCK
48	1	500347	HUB
49	1	500348	COLLAR, SPIDER DRIVE
50	1	500349	SPIDER DRIVE
51	1	500350	SHAFT, REAR ROLLER
52	1	500351	STUD, SOLENOID LINK
53	1	500352	ANGLE, EXTENSION
54	2	500353	ARM PRESSURE ROLLER
55	1	500354	ARM, THROW OUT
56	1	500355	LINK, SOLENOID
57	1	500356	HUB, FRICTION CLUTCH
58	1	500357	SHAFT, FRICTION CLUTCH
59	1	500358	SHAFT, WORM GEAR ADJ.
60	1	500359	SHAFT, WORM GEAR ADJ.
61	1	500360	SHAFT, WORM GEAR ADJ.
62	1	500361	RETAINER, ECCENTRIC HUB
63	2	500362	BRACKET, PLATE MTG.
64	1	500363	STUD, REVERSING PULLEY
65	1	500364	SHAFT, REAR ROLLER
66	1	500365	SHAFT, DISCHARGE ROLLER
67	1	500366	BLOCK, BEARING
68	4	500367	KEY, CRADLE GUIDE
69	1	500368	STUD, BELT TAKE, UP
70	1	500369	BLOCK, BEARING

Item	Qty	Part #	Description
71	1	500370	STUD, DRIVER GEAR
72	2	500371	SPACER, GUARD
73	1	500757	PULLEY, REVERSING
74	1	500772	KNOB, SHAFT
75	1	100104	BUSHING, ECCENTRIC SHAFT
76	1	100118	BUSHING, TIMING DRUM SHAFT
77	1	100305	BUSHING, LINK
78	5	100309	BUSHING, WORM HOUSING
79	1	100312	BUSHING, FLANGED
80	2	100402	WASHER, THRUSH
81	5	100602	WASHER, FLAT
82	1	100603	WASHER, FLAT
83	2	100901	GEAR, WORM
84	2	100902	WORM, GEAR
85	2	101121	BUSHING
86	1	101700	GEAR, FIRST IDLER
87	1	101702	GEAR, DRUM SHAFT
88	1	101705	GEAR, FORM ROLLER DRIVER
89	1	101900	GEAR, CAM SHAFT
90	1	101901	GEAR, ADAPTER SHAFT
91	3	101902	GEAR, FEED ROLLER SHAFT
92	2	101904	GEAR, IDLER
93	2	102200	COLLAR
94	1	102204	COLLAR
95	1	102301	SPACER, FORM ROLL SHAFT
96	3	102309	SPACER
97	1	102707	SPRING, ECCENTRIC SHAFT
98	1	102709	SPRING, EXT. HOOK ENDS
99	2	103000	BEARING
100	2	103106	BEARING, GEAR
101	2	103108	BEARING, GEAR
102	1	103202	BEARING
103	2	103205	BEARING, DRUM SHAFT
104	1	103408	FOLLOWER, CAM
105	1	103501	BEARING, ROD END

Item	Qty	Part #	Description
106	1	103803	BEARING
107	4	103804	BEARING
108	4	103805	BEARING
109	5	103810	BEARING
110	4	104100	RING, RETAINING
111	6	104106	RING, RETAINING
112	1	104112	RING, RETAINING
113	1	105402	PIN, DOWEL
114	2	106001	BELT, V (MASTER MOTOR)
115	2	106002	BELT, V (BALDO)
116	1	108800	PULLEY, TIMING DRUM SHAFT
117	1	108801	PULLEY, CAM SHAFT
118	1	108900	BELT, TIMING
119	1	108902	BELT, TIMING
120	1	190002	SOLENOID
121	2	190100	SWITCH, MICRO
122	2	190203	COVER, MICRO SWITCH
123	1	190602	LEAD, DRUM CT-BALANCE

### **Inking Fountain Assembly**

<b>Item</b>	<b>Qty</b>	<b>Part #</b>	<b>Description</b>
1	1	500000	FINAL ASSEMBLY
2	1	500001	PLATE, SIDE
3	1	500002	PLATE, SIDE GEAR
4	1	500003	FOUNTAIN
5	1	500004	COVER, GEAR
6	1	500005	ROLLER
7	1	500006	SHAFT
8	1	500007	ROLLER, TRANSFER
9	2	500008	ROLLER
10	1	500009	ROLLER, ASSY
11	1	500010	SHAFT
12	2	500011	COLLET, FORM ROLLER
13	1	500012	ARM
14	1	500013	ARM
15	2	500014	BRACKET
16	1	500015	SHAFT, IDLER ROLLER
17	2	500016	COLLAR, DRIVE
18	4	500017	HUB, ROLLER DRIVE
19	1	500018	STUD, KNOB
20	2	500019	PIVOT
21	2	500020	BLOCK, ROCKING
22	2	500021	BUSHING
23	1	500022	LINK, EQUALIZING BAR
24	1	500023	SHAFT, OSCILLATING
25	2	500024	TIE, ROD
26	1	500025	TUBE, ROLLER
27	2	500026	HUB, ROLLER
28	2	500027	CUP, DRIP
29	2	500028	SHAFT, FORM ROLL
30	1	500029	STUD
31	1	500030	ARM, ROLLER, SUPPORT
32	1	500031	ARM, ROLLER, SUPPORT
33	2	500032	SECTOR
34	1	500033	BLOCK, PIVOT
35	1	500034	RATCHET

Item	Qty	Part #	Description
36	1	500035	SHIELD, RATCHET
37	1	500036	PAWL, RATCHET
38	1	500037	LEVER
39	1	500038	BUSHING
40	1	500039	YOKE, ECCENTRIC
41	2	500040	ADAPTER, SHAFT
42	1	500041	CAP, RETAINER
43	1	500042	LEVER, ROLLER DRIVE
44	1	500043	LINK, INK ROLLER DRIVE
45	1	500044	LINK, CONNECTING
46	1	500045	COLLAR, DRIVE
47	5	500046	SCREW, DRIVE COLLAR
48	2	500047	LEVER, INK
49	2	500048	ROD, SPRING
50	1	500049	PIN
51	1	500050	BLADE, INK
52	1	500051	CLAMP, BLADE
53	3	500052	HOLDER, SPRING
54	1	500053	GEAR, ASSY
55	1	500054	GEAR, ECCENTRIC
56	1	500055	SHAFT, EQUALIZING
57	1	500056	ROD, TIE
58	1	500057	STUD, ROD END
59	1	500058	SHAFT, PILOT
60	1	500059	STUD
61	1	500060	STUD (see 500036)
62	1	500061	BUSHING, BRONZE
63	1	500062	GEAR, SPUR
64	1	500948	RID
65	1	100104	BUSHING
66	1	100110	BUSHING
67	1	100117	BUSHING
68	1	100119	BUSHING, RATCHET
69	2	100120	BUSHING
70	1	100122	BUSHING (MAKE 500038)

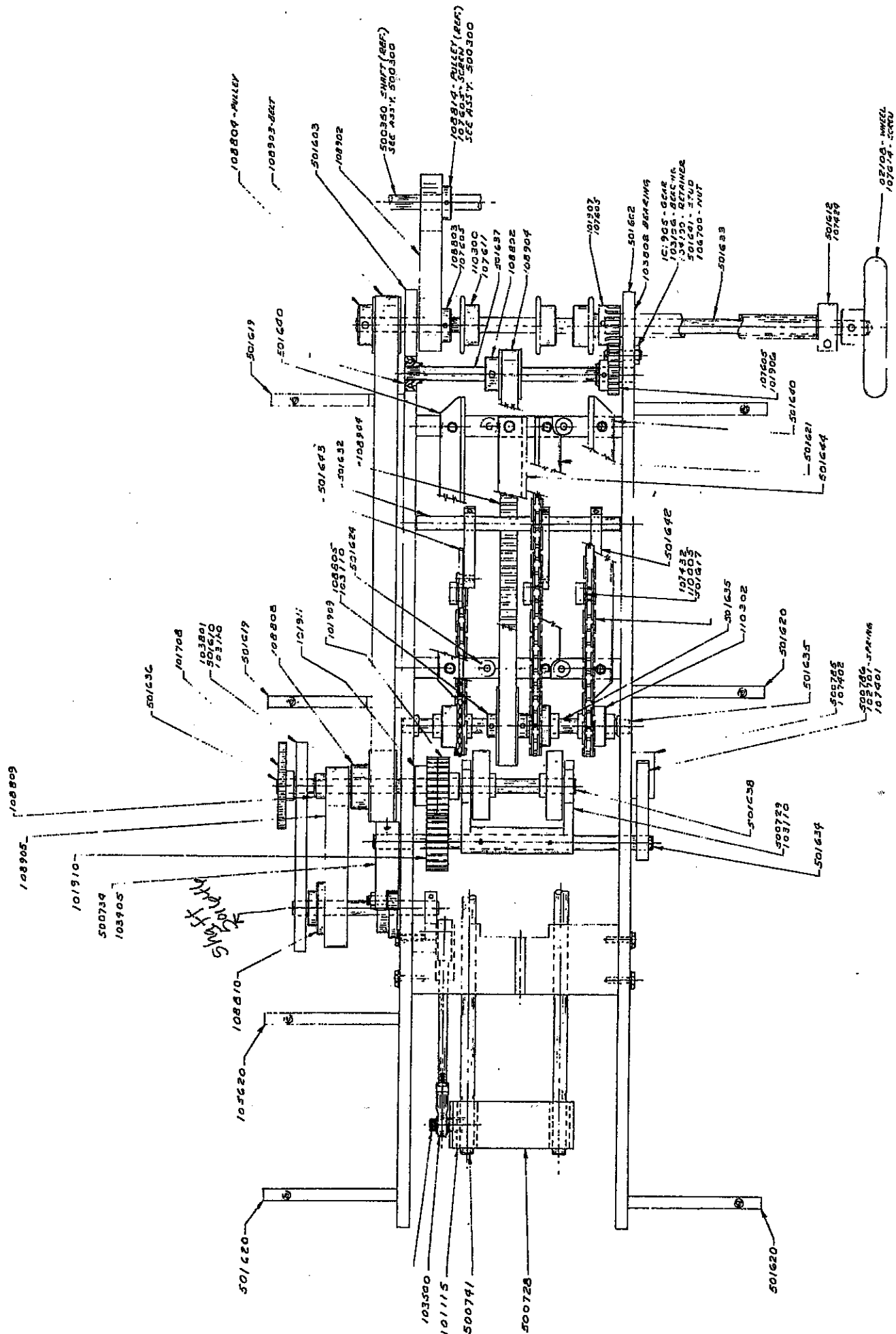


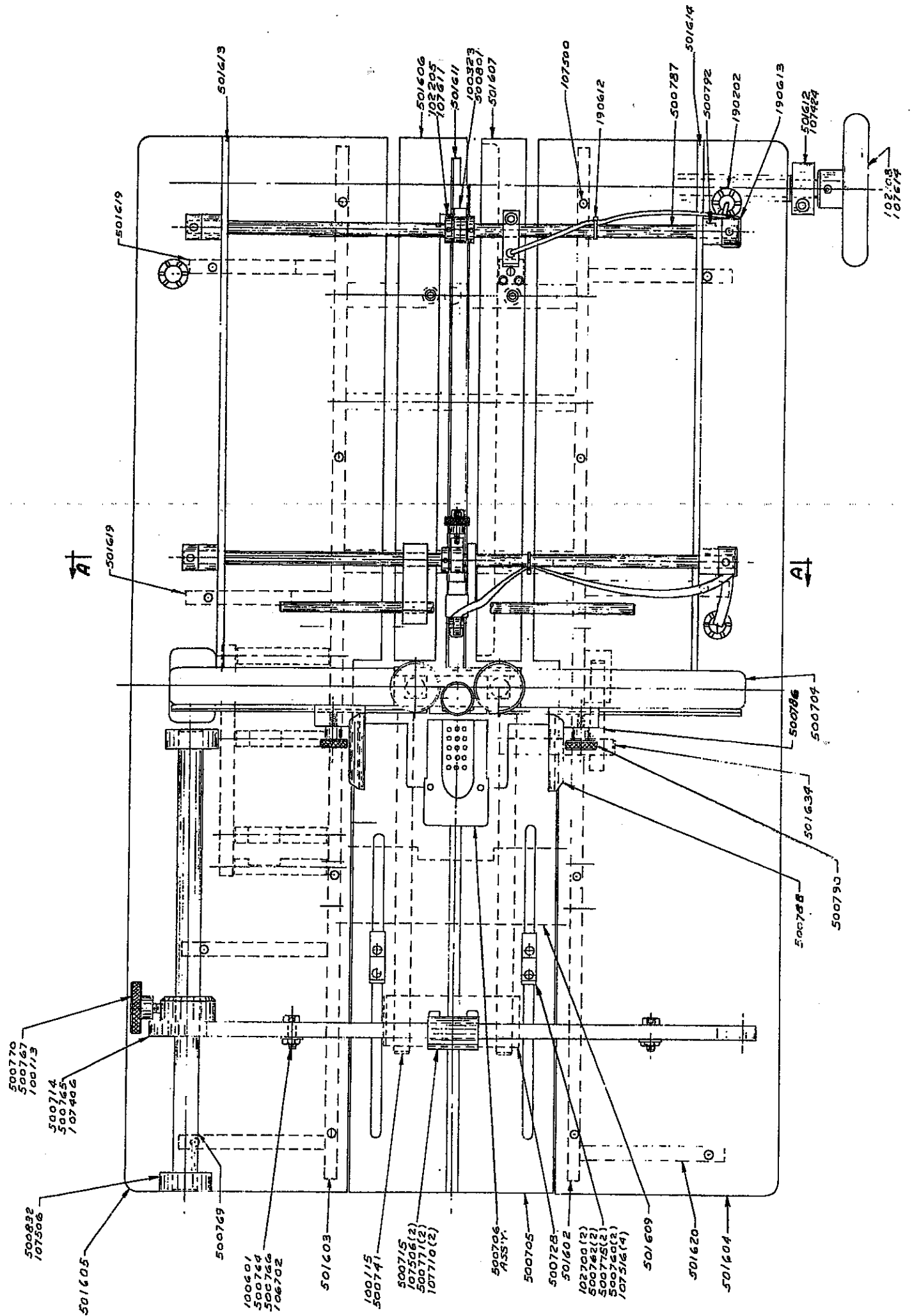
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71	1	100123	BUSHING, BOSTON B20248
72	2	100310	BUSHING, FLANGED
73	1	100322	BUSHING
74	2	100603	WASHER, FLAT
75	1	100606	WASHER, FLAT
76	1	101701	GEAR, SPUR (500054)
77	1	101703	GEAR, SPUR
78	1	101704	GEAR, SPUR
79	1	101715	GEAR, SPUR
80	1	102107	KNOB
81	1	102110	KNOB
82	3	102200	COLLAR
83	2	102204	COLLAR
84	3	102306	SPACER
85	1	102310	SPACER
86	1	102311	SPACER
87	2	102710	SPRING
88	1	102711	SPRING
89	1	102712	SPRING, PAWL
90	1	103105	BEARING, R SERIES
91	1	103106	BEARING
92	4	103108	BEARING
93	2	103302	BEARING, NEEDLE
94	1	103501	BEARING, ROD END
95	2	103803	BEARING
96	1	104100	RING, RETAINING
97	1	104103	RING, RETAINING
98	2	104106	RING, RETAINING
99	1	104107	RING, RETAINING
100	1	105204	PIN, ROLL
101	4	107901	SCREW, BALL PLUNGERS

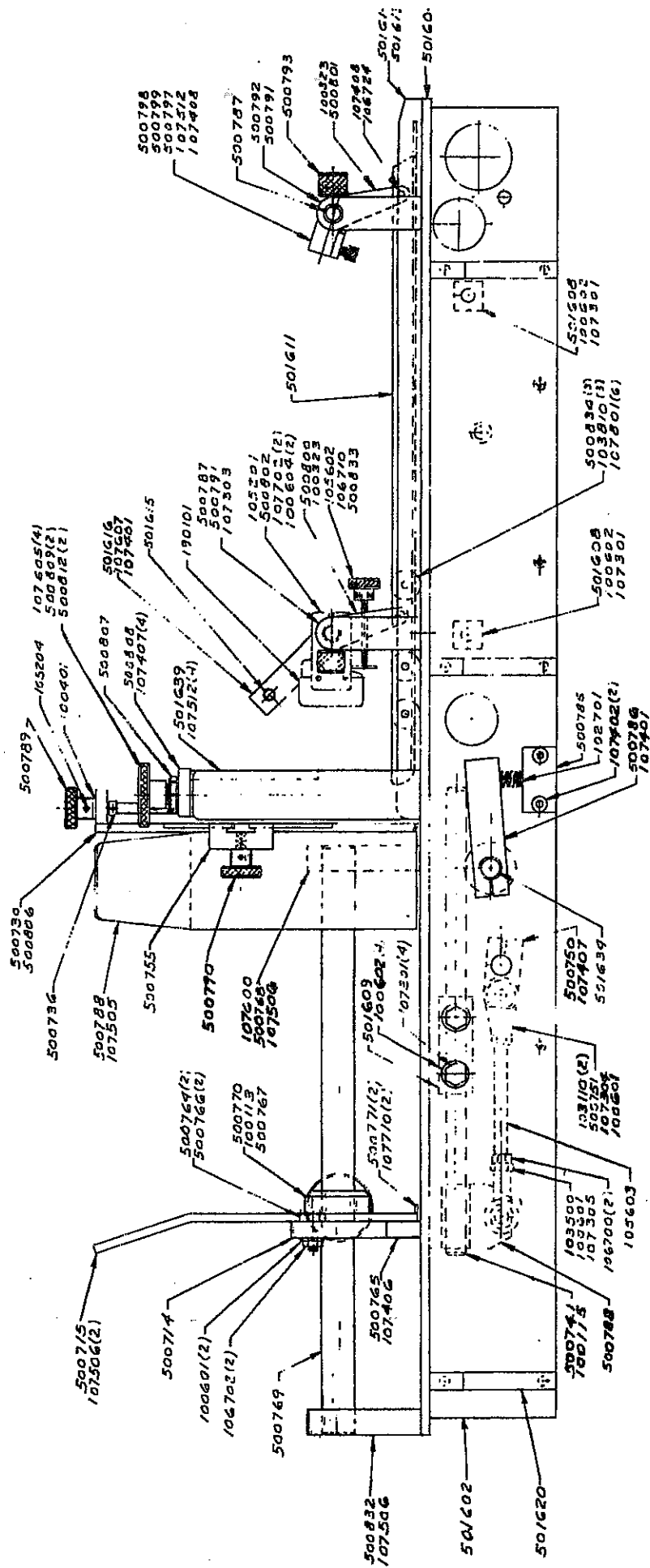
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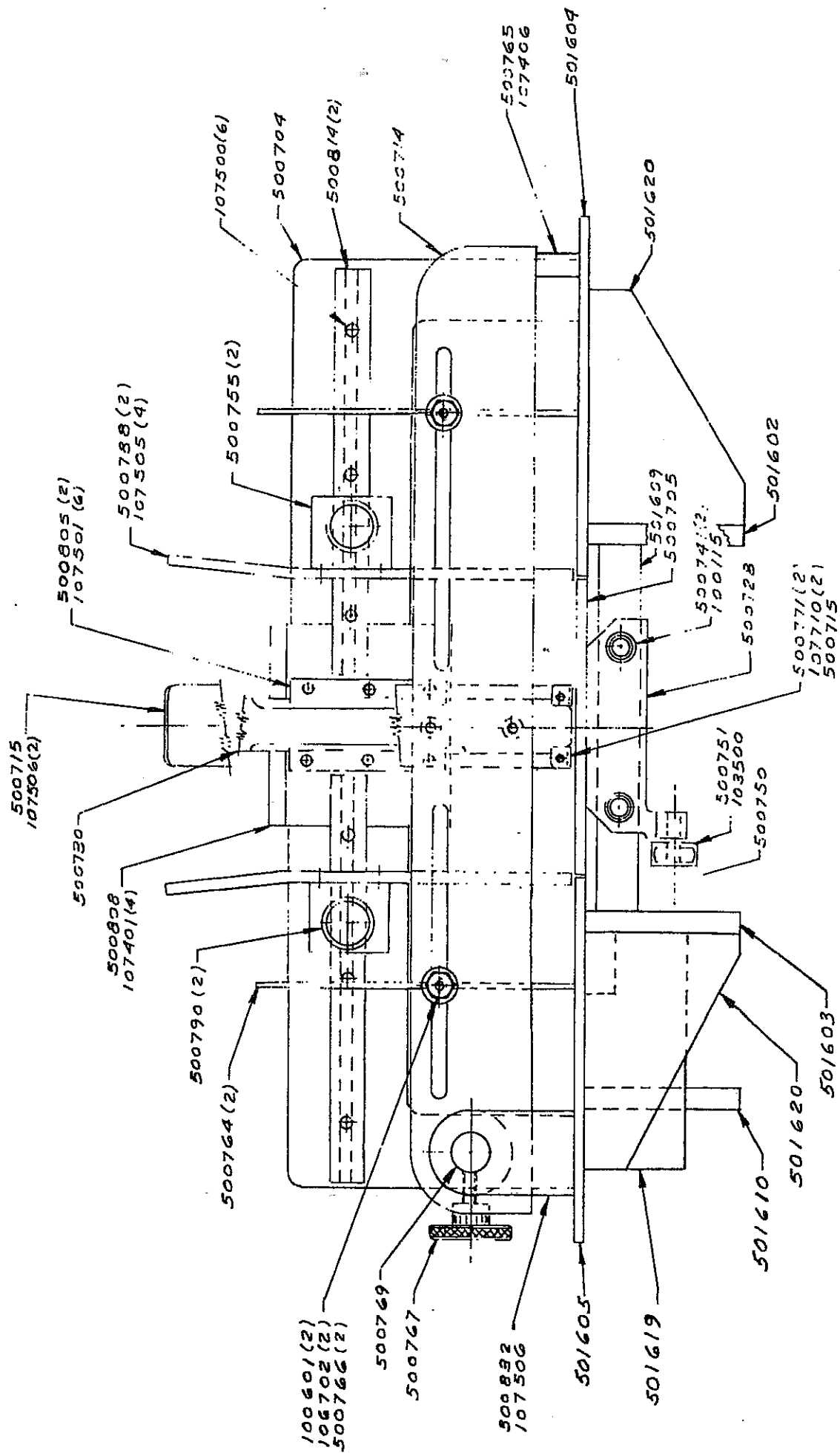
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SECTION - A - A



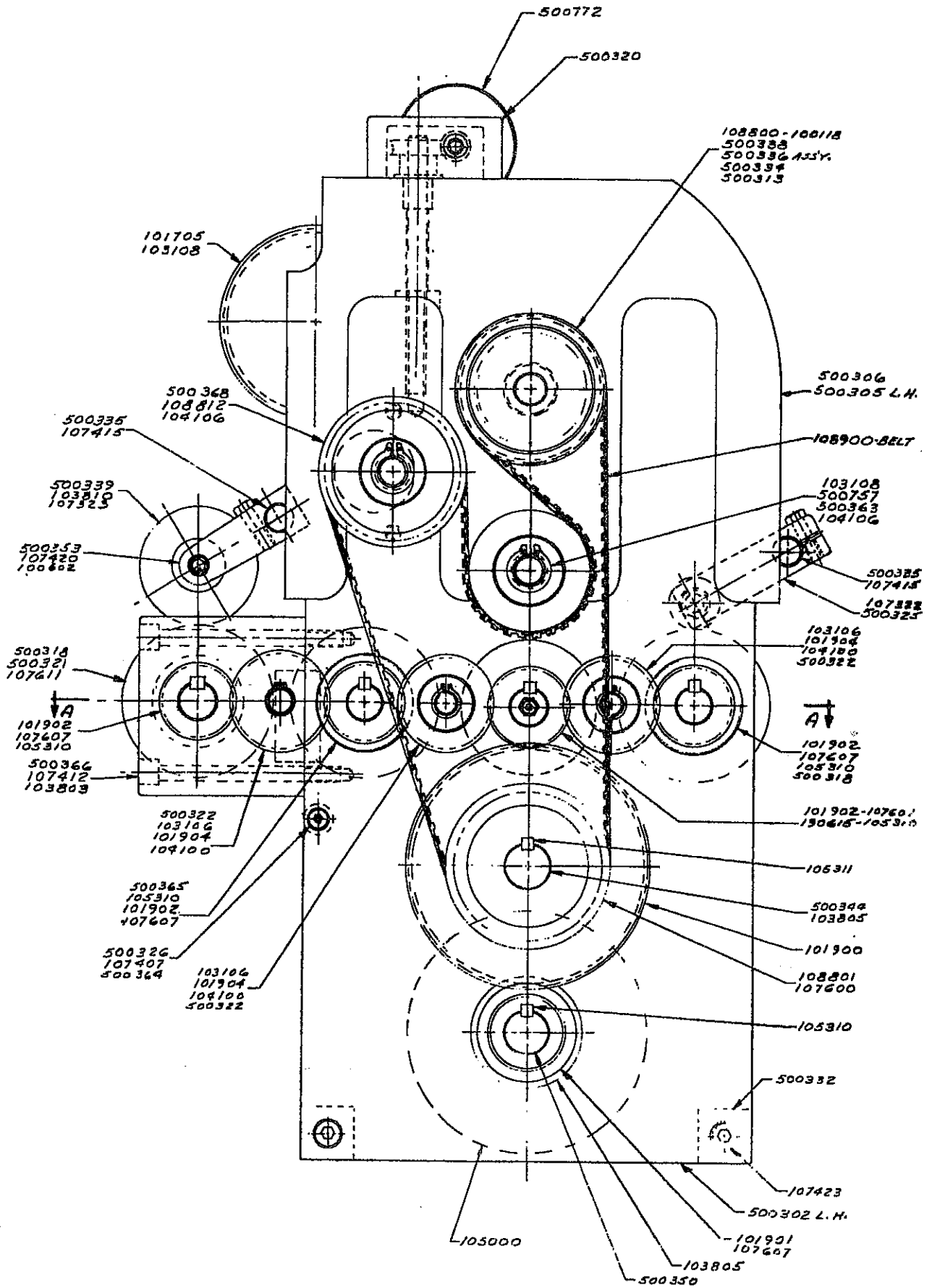




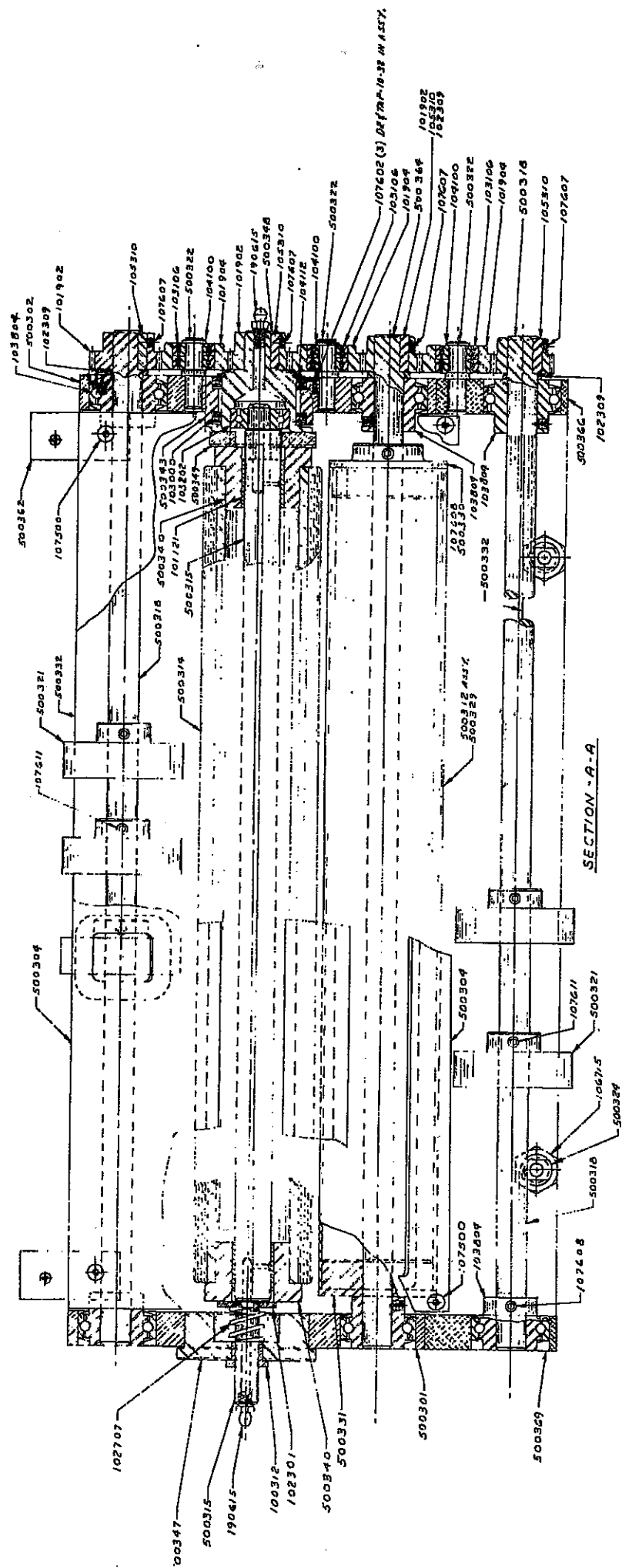


**U.S.A.**

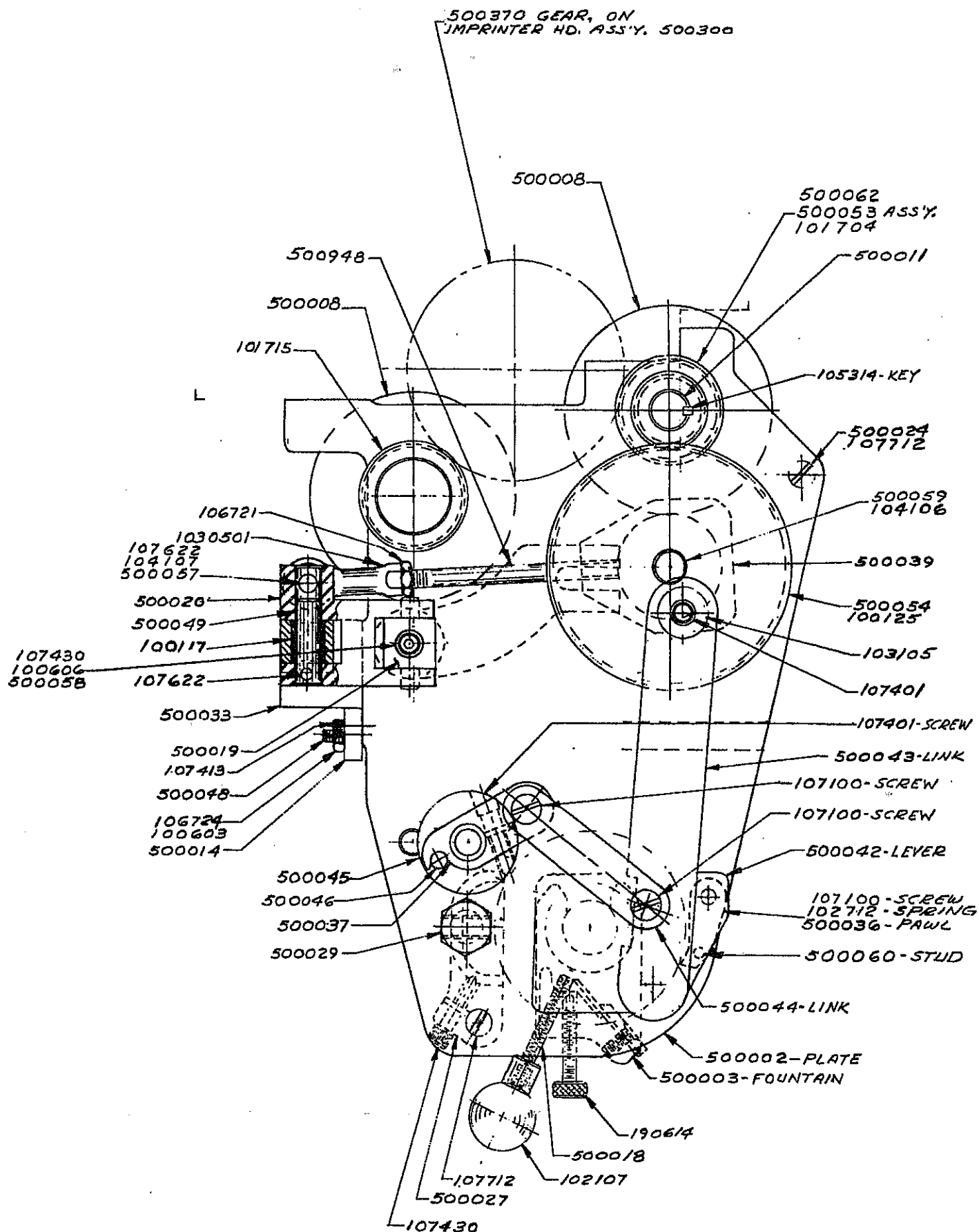




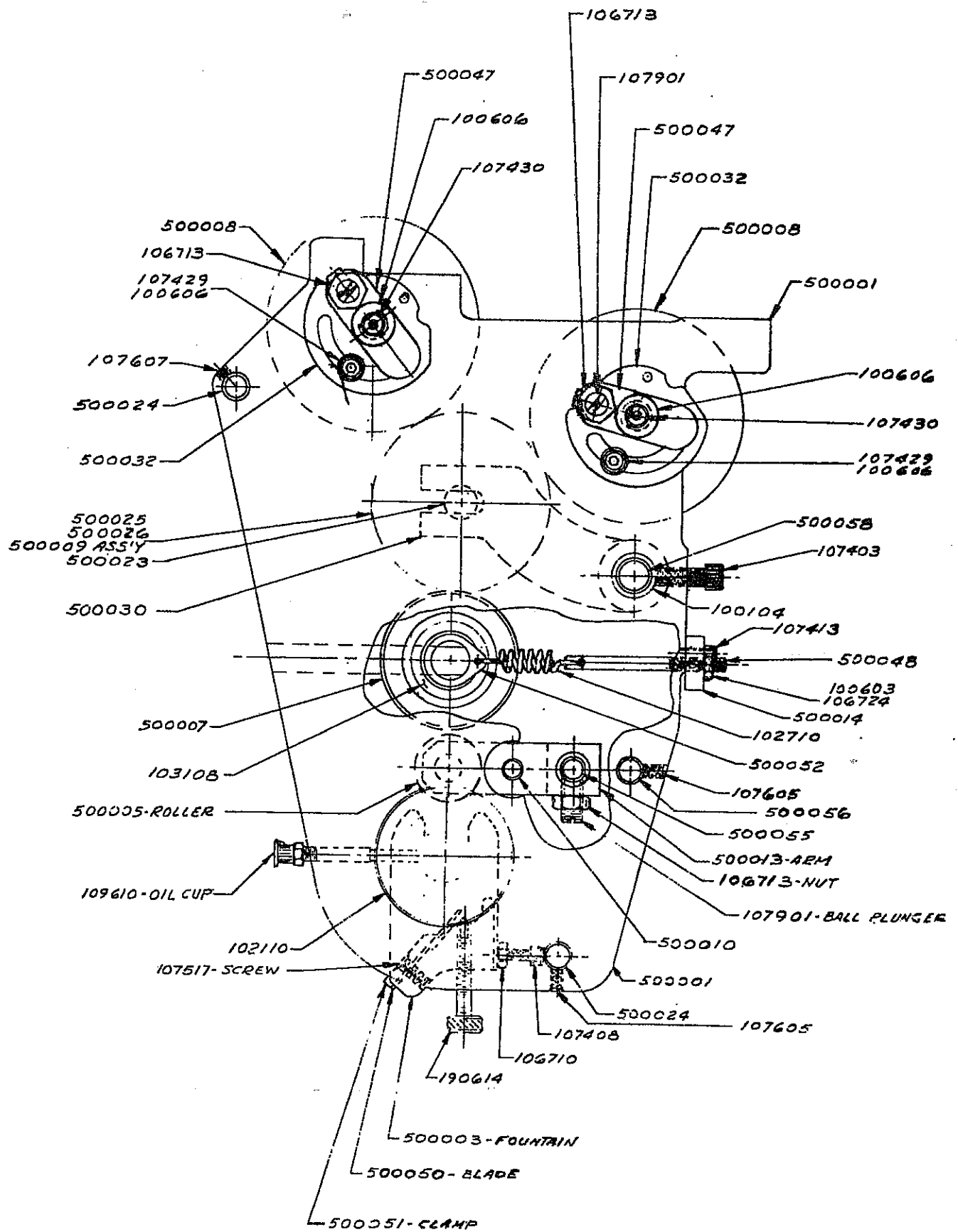




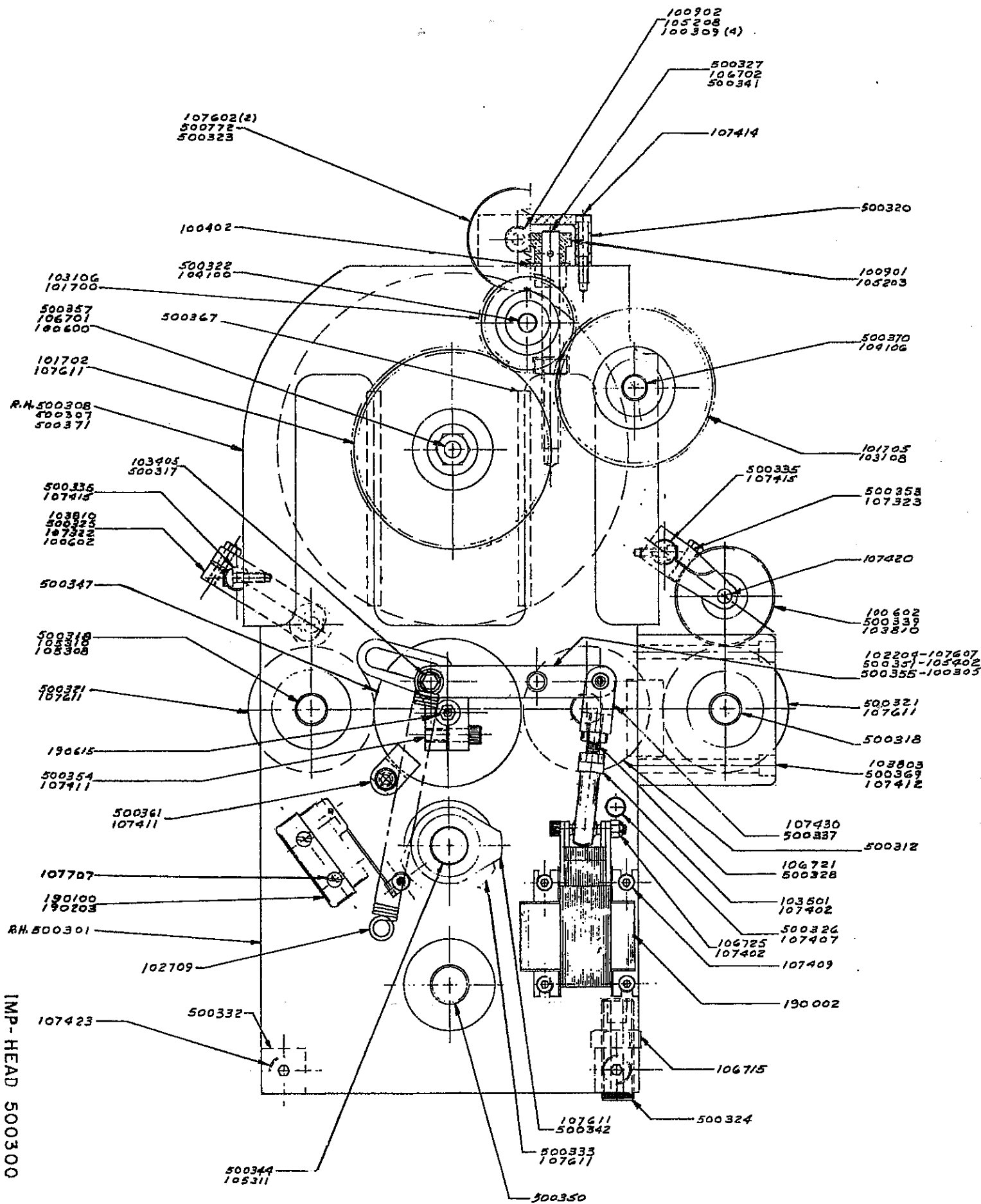




END VIEW- GEAR SIDE  
ITEM-500004- GUARD NOT SHOWN



END VIEW



IMP-HEAD 500300



## This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

## 6 WARRANTY AND SERVICE

### WARRANTY

**Warranty:** Kirk-Rudy, Inc., warrants to the original retail purchaser that this product is free from defects in the material and workmanship, and agrees to repair or replace, at Kirk-Rudy's option, any defective product within (90) days from the date of purchase. This warranty is not transferable. It covers damage resulting from defects in material or workmanship, and it does not cover conditions or malfunctions resulting from normal wear, neglect, abuse or accident.

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**Limitation of Remedies:** If product is proven to be defective within the warranty period stated above, THE EXCLUSIVE REMEDY, AT KIRK-RUDY'S OPTION, SHALL BE TO REFUND THE PURCHASE PRICE OF OR TO REPAIR OR REPLACE THE DEFECTIVE PRODUCT, provided that the defective product is, at Kirk-Rudy's choice, returned immediately to Kirk-Rudy or authorized service representative designated by Kirk-Rudy, or made available at user's premises in a location suitable for servicing.

**Limitation of Liability:** Kirk-Rudy shall not otherwise be liable for any losses or damages, whether direct, indirect, special, incidental, or consequential, regardless of the legal or equitable theory asserted, including contract, negligence, warranty, or strict liability.

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