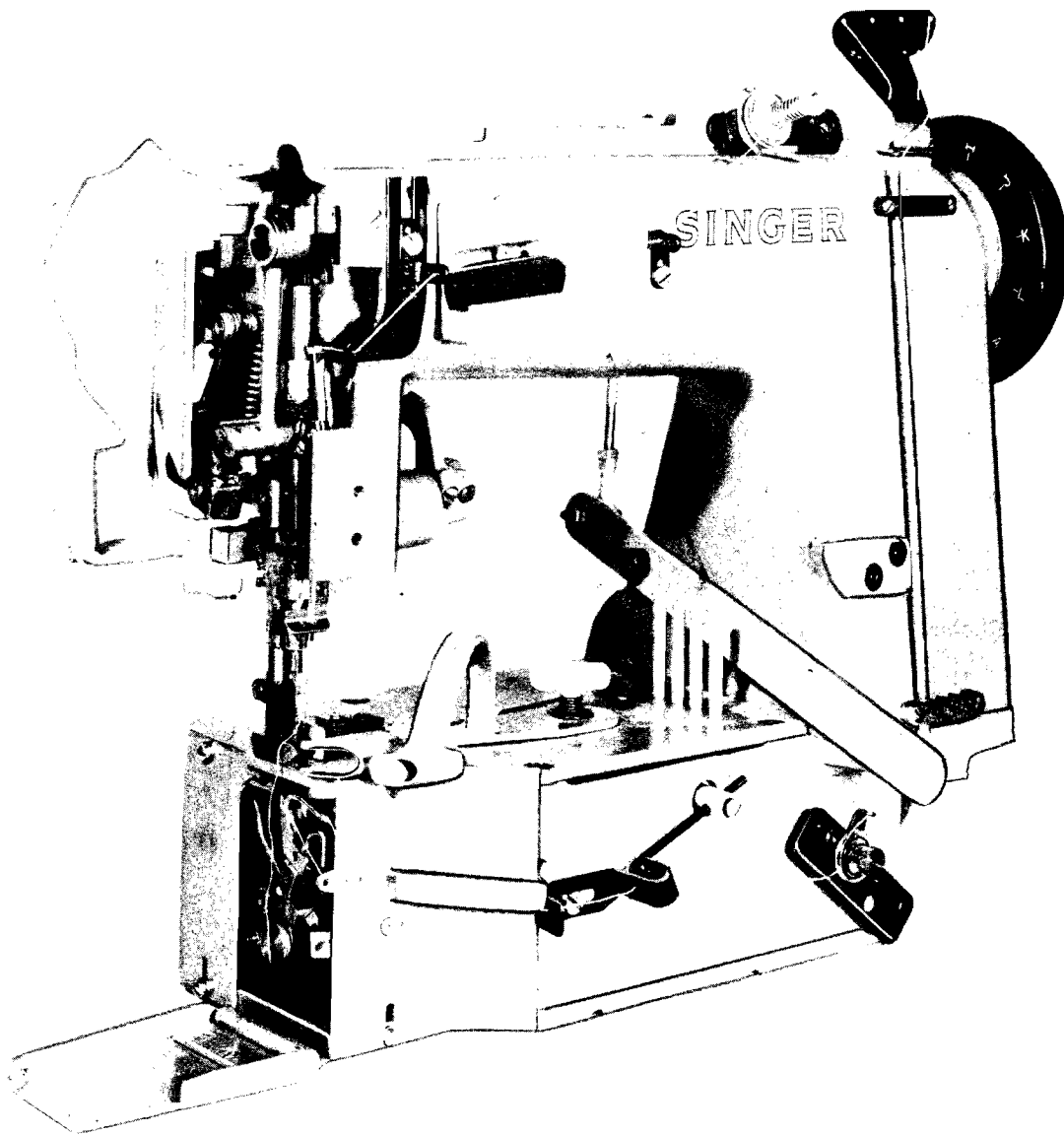


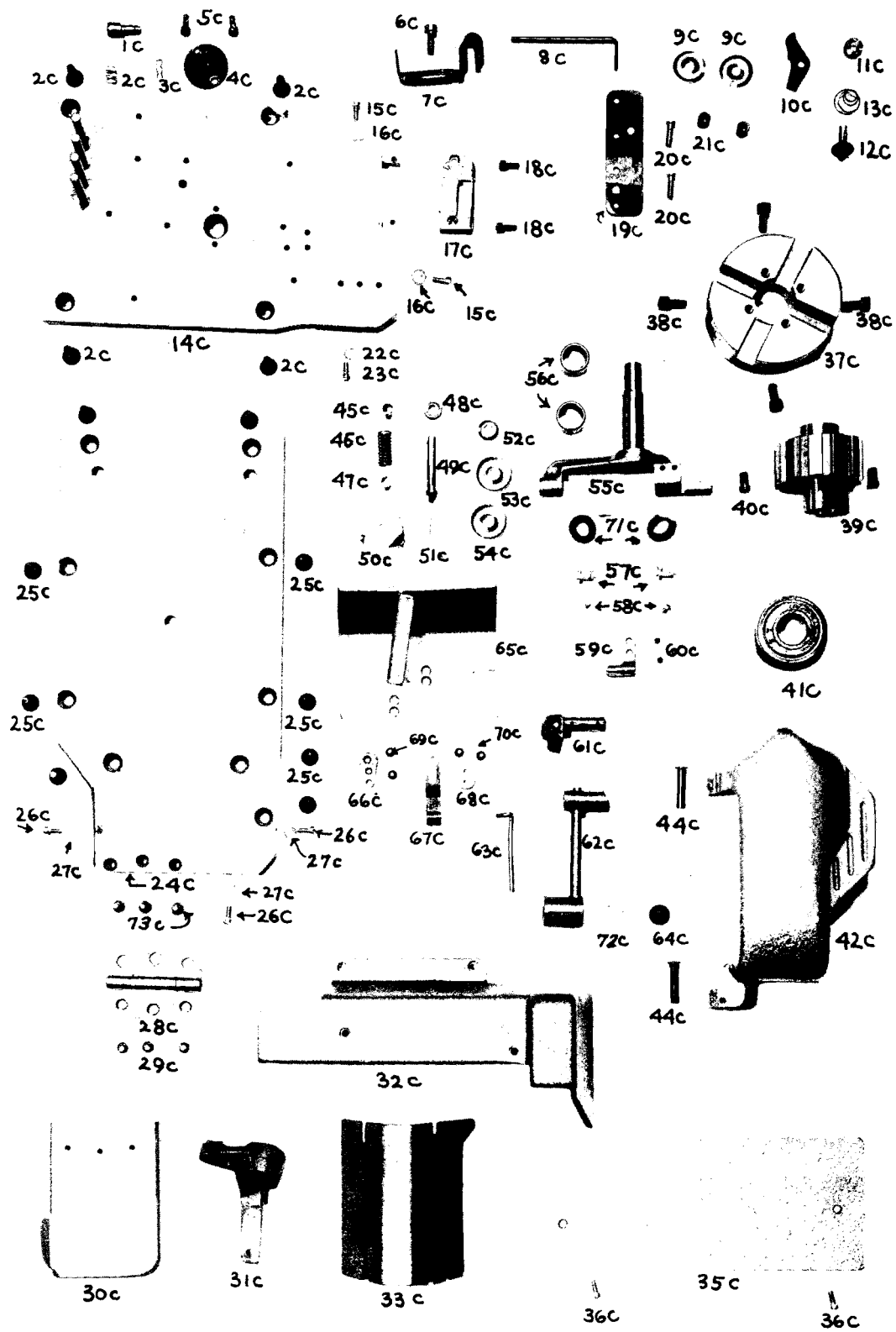
**PARTS MANUAL**  
**SINGER MODEL 300-W**

**FOR**  
**JAMES CASH TAPE EDGE MACHINES**



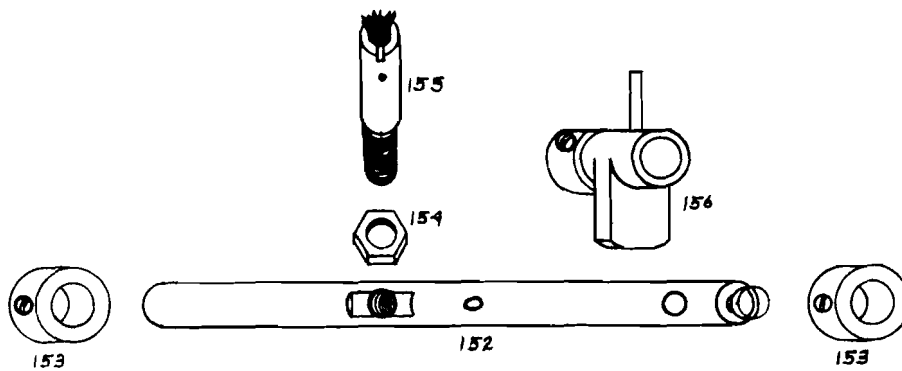
**JAMES CASH MACHINE CO., INC.**

625 WEST HILL STREET      *Manufacturers of Bedding Machinery*      LOUISVILLE 8, KENTUCKY  
*30 YEARS OF DESIGNING AND BUILDING BETTER BEDDING MACHINERY*



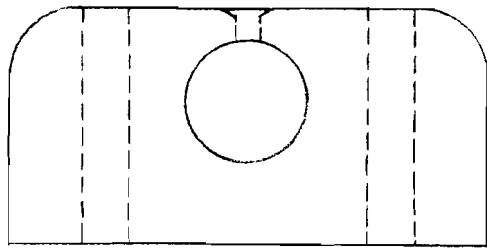
Ref. No.	Part No.	Description
1C	268081	Feed Regulating Stud
2C	270026	Feed Regulating Stud Spring
3C	240245	Feed Regulating Stud Retaining Spring
4C	268082	Feed Regulating Stud Socket
5C	20113	Feed Regulating Stud Socket Screw
6C	20083	Looper Thread Guide Screw
7C	268051	Looper Thread Guide
8C	268052	Looper Thread Take-Up Rod
9C	244048	Needle Thread Tension Disc
10C	268333	Looper Thread Tension Thread Guide
11C	20101	Looper Thread Tension Thread Guide Nut
12C	20102	Looper Thread Tension Thread Guide Stud
13C	20103	Looper Thread Tension Thread Guide Spring
14C	20104	Top Base Plate
15C	20064	Side Housing Screw
16C	20100	Side Housing Washer
17C	20119	Throat Plate
18C	20120	Throat Plate Screws
19C	268331	Looper Thread Tension Bracket
20C	200564E	Looper Thread Tension Bracket Screw
21C	268121	Looper Thread Tension Bracket Spacing Collar
22C	20100	Side Housing Washer
23C	20064	Side Housing Screw
24C	20105	Bottom Base Plate
25C	20106	Bottom Base Plate Screw
26C	20107	Side Housing Screw
27C	20108	Side Housing Washer
28C	20109	Bottom Base Plate Hinge
29C	20110	Front Door Hinge Screw
30C	20111	Bottom Door
31C	268085	Foot Lifter Lever (Back)
32C	267604	Arm Side Cover
33C	20112	Front Housing
35C	20114	Left Side Housing
36C	20115	Left Side Housing Screws
37C	20116	Lower Drive Pulley
38C	20117	Lower Drive Pulley Screw
39C	268028	Bed Shaft Connection Belt Pulley
40C	20118	Bed Shaft Connection Belt Pulley Screw
41C	268024	Bed Shaft Ball Bearing
42C	267607	Front Door
44C	268031	Face Plate Hinge Pin
45C	59538	Needle Thread Tension Spring Bushing (Back)
46C	131741	Needle Thread Tension Spring
47C	59537	Needle Thread Tension Spring Bushing (Front)
48C	51570C	Needle Thread Tension Thumb Nut
49C	50326C	Needle Thread Tension Stud
50C	54279	Needle Thread Tension Thread Guide (Double)
51C	20079	Needle Thread Tension Thread Guide (Double) Pin
52C	32572	Needle Thread Tension Releasing Disc
53C	2102	Needle Thread Tension Disc
54C	2102	Needle Thread Tension Disc
55C	267637	Needle Bar Rock Frame

Ref. No.	Part No.	Description
56C	268029	Bed Shaft Needle Bearing
57C	268278	Needle Bar Oiling Felt Holder
58C	200173D	Needle Bar Oiling Felt Holder Screw
59C	268255	Needle Bar Rock Frame Felt Thread Guide
60C	200583C	Needle Bar Rock Frame Felt Thread Guide Screw
61C	268141	Needle Bar Connecting Stud
62C	268055	Needle Bar Connecting Link
63C	268512	Needle Thread Guide (On Needle Bar Connecting Stud)
64C	200095H	Needle Bar Connecting Link Cap Washer Screw
65C	20121	Right Side Housing
66C	20122	Thread Guide
67C	268032	Face Plate Lock Spring
68C	20123	Face Plate Lock Spring Plate
69C	20124	Thread Guide Screw
70C	20125	Face Plate Lock Spring Plate Screw
71C	268144	Needle Bar Oiling Felt
72C	268139	Needle Bar Connecting Link Cap Washer
73C	20126	Bottom Base Plate Hinge Screw



### SPREADER DRIVING ROCK SHAFT

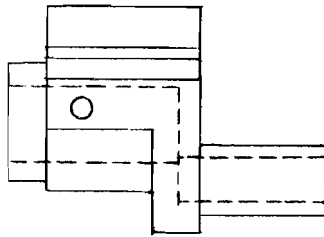
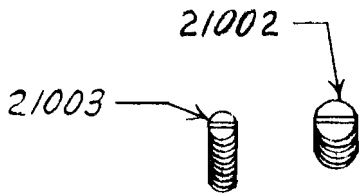
(See page 11 for Reference Numbers and Parts Numbers)



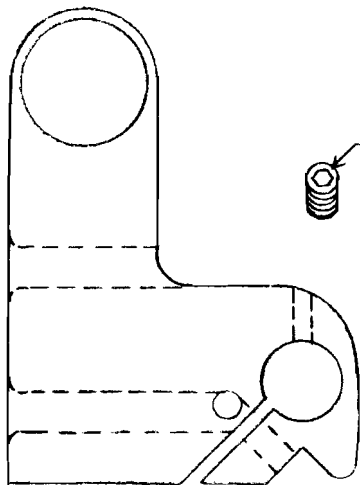
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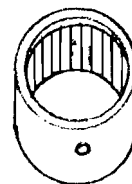
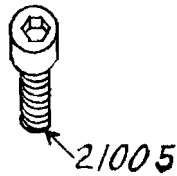
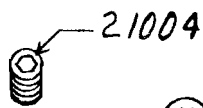
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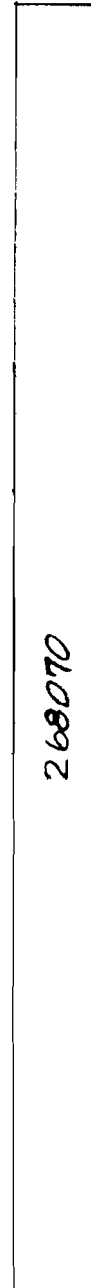
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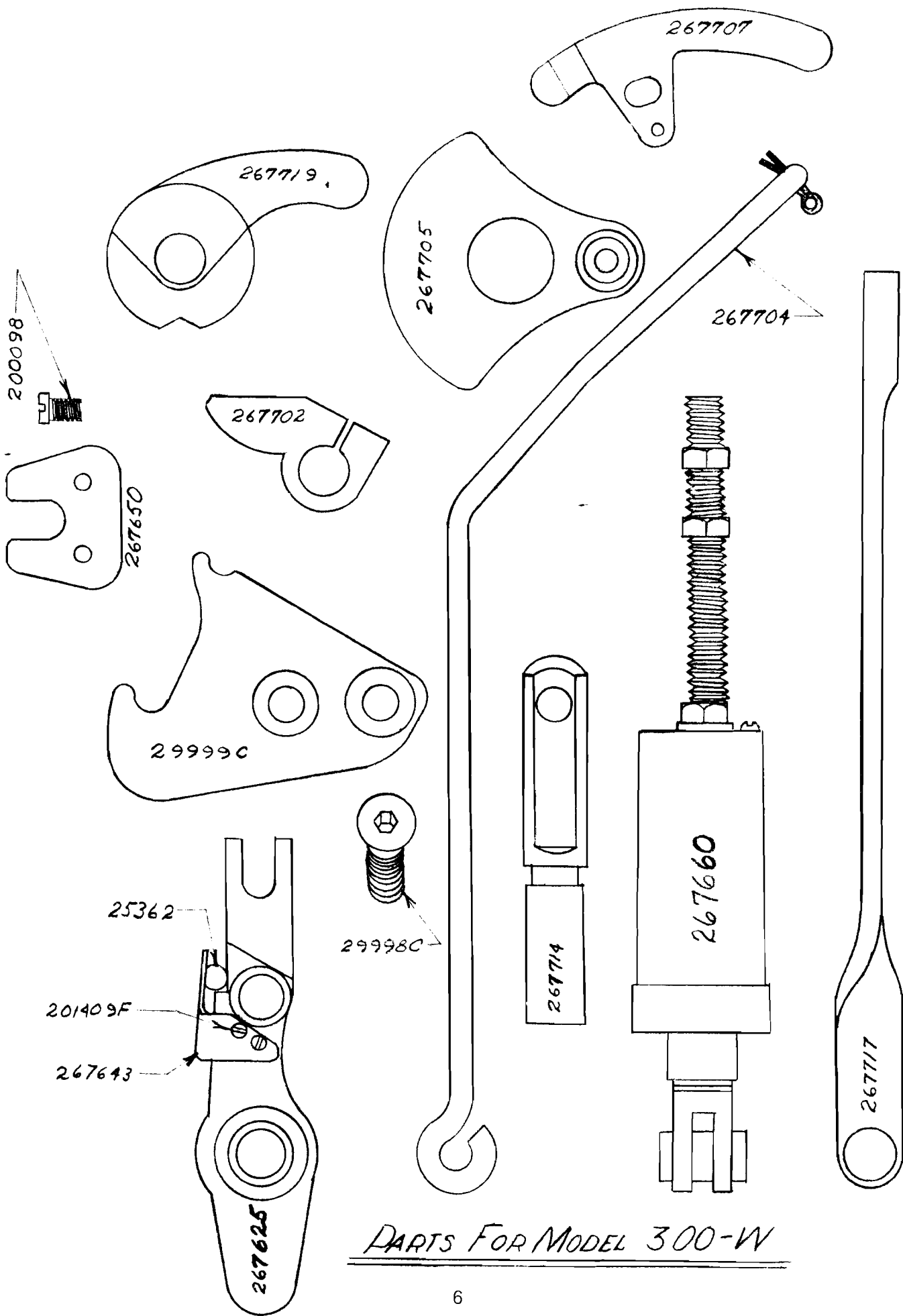
20021-A



GB78-04



268070



PARTS FOR MODEL 300-W

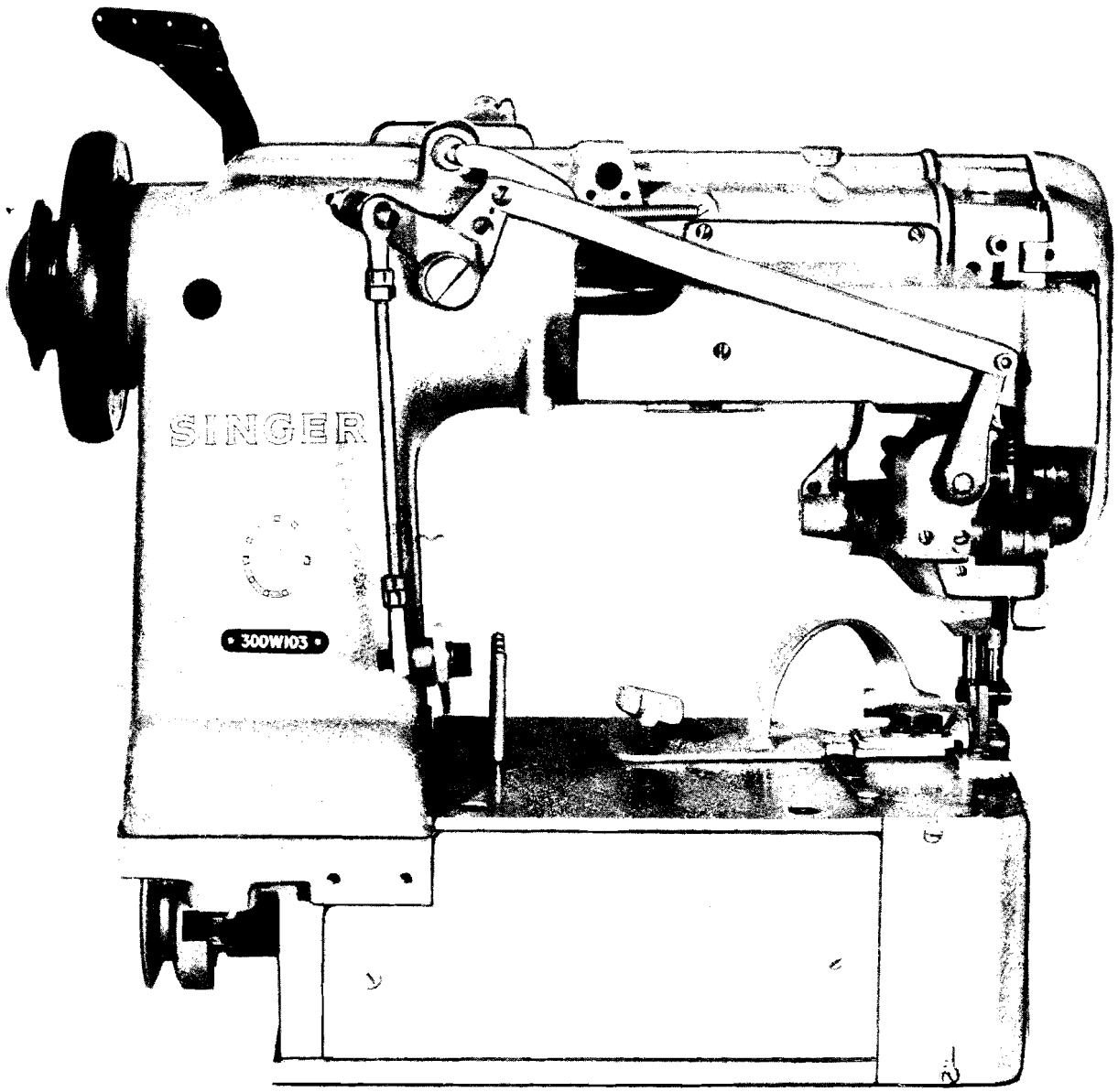
## SEWING ADJUSTMENTS FOR THE SINGER 300 W 103 SEWING HEAD

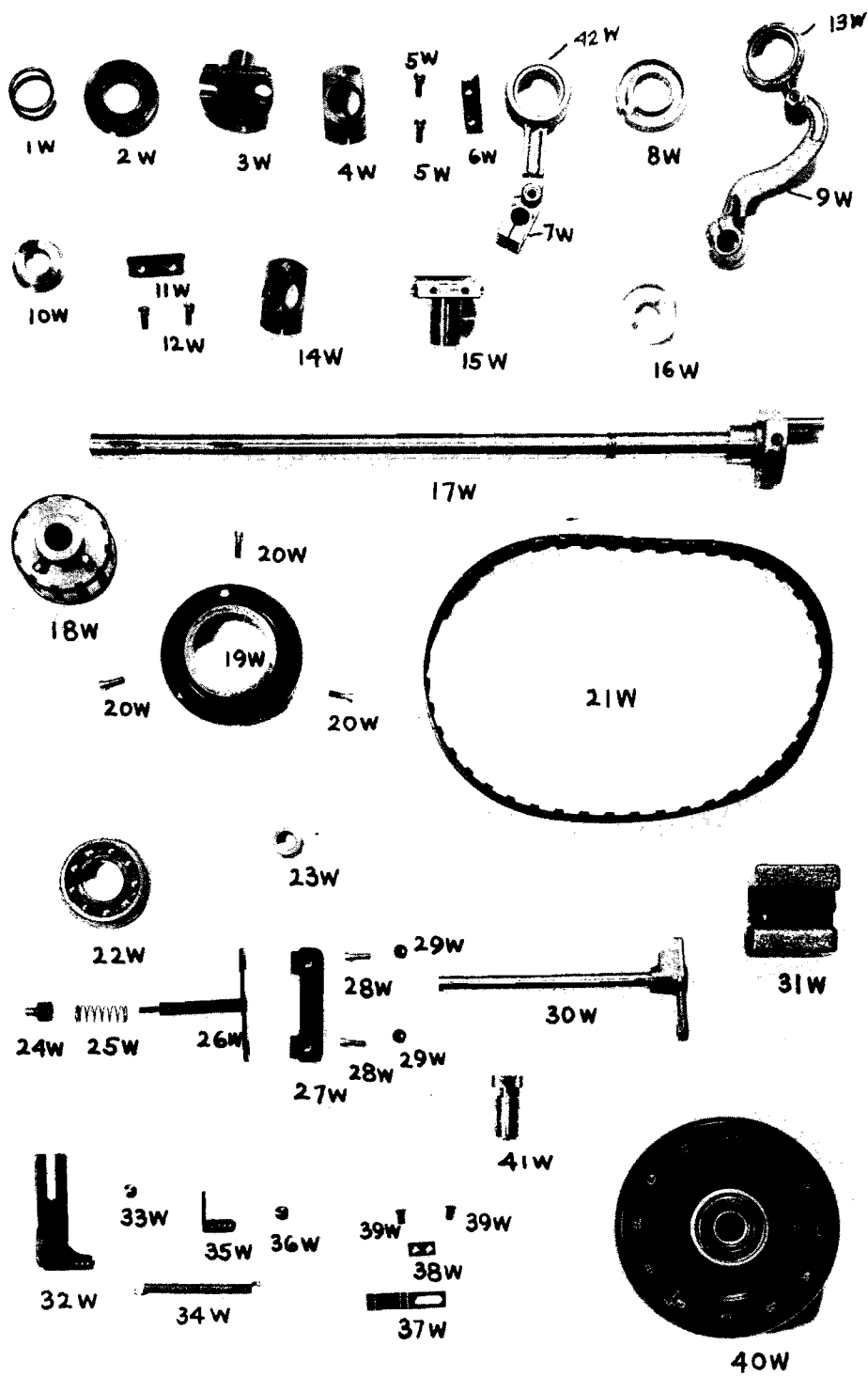
1. Set both top and bottom shafts on "D" setting on the balance wheel.
2. Turn the balance wheel so that the looper is at its' extreme rearward movement. There should be a  $5/32''$  space between the point of the looper and the edge of the needle.
3. Turn the balance wheel and see that the looper crosses the scarf of the needle in exactly the same place on both the forward and return movements. If it does not release the large set screw in the looper driving crank (Ref. #68) then adjust the stroke using the two offset screws to attain the proper position. Then tighten the large set screw.
4. Raise or lower the needle bar as may be necessary in order for the looper to pass directly through the center of the needle scarf.
5. Set the needle loop deflector plate (Ref. #54) so there is a  $1/32''$  between the face of the plate and the back of the needle.
6. Set the looper needle guard (Ref. #63) as close to the needle as possible without actually touching it. Care must be exercised so that the eye of the needle remains above the incline of the guard on the upward stroke of the needle. It may be necessary to compromise step #4 and raise the needle bar if the needle eye is so obstructed.
7. The spreader (Ref. #124) should be set so that on its' rearward movement there should be  $1/16''$  between the point of the spreader and the edge of the needle. As the looper moves forward, the spreader point should be as close to the face of the looper as possible without actually touching. As the spreader moves rearward across the top of the looper, it should be as close to the top of the looper as possible without actually touching.
8. Assemble cover (Ref. #65C) to the side of the head. Close cover (Ref. #30C) and check for the conflicts of looper and looper guard and spreader with the cover.
9. Set the looper thread guide (Ref. #7C) and the looper take-up rod (Ref. #8C) so that on the downward movement of the take-up rod the center of the thread holes in the take-up rod will be even with the bottom of the loop of the looper thread guide.

10. Set the needle thread guide (Ref. #63C) so that there is  $5/16''$  of its' shank protruding on the bottom.
11. Set the needle thread guide (Ref. #32W) so that the top of the piece is one inch above the center of the mounting screw (Ref. #33W). Set the needle thread guide (Ref. #35W) so that it is as high as it can be moved.
12. Adjust the pressure cylinder on the back of the head so that there is  $5/16''$  of the stud protruding above the top lock nut.
13. Set the looper thread tension so the outside face of the thumb nut is about flush with the end of the tension stud. Set the needle thread tension so that there is about  $1/4''$  of the tension stud protruding from the thumb nut.
14. The lifting presser foot (Ref. #56) should lift about  $1/8''$ . The vibrating presser foot (Ref. #57) should lift about  $5/16''$ . The point of the needle should center the material when the vibrating presser foot (Ref. #57) is  $3/16''$  above the material on its' downward movement.
15. The lower feed-dog (Ref. #52) should rise no more than  $1/16''$  above the top surface of the throat plate (Ref. #17C). The feed dog in its' forward movement should come to within  $1/16''$  of the end of the slot in the throat plate. The needle should enter the slot in the lower feed-dog about  $1/3$  of the distance from the end closet to the operator.

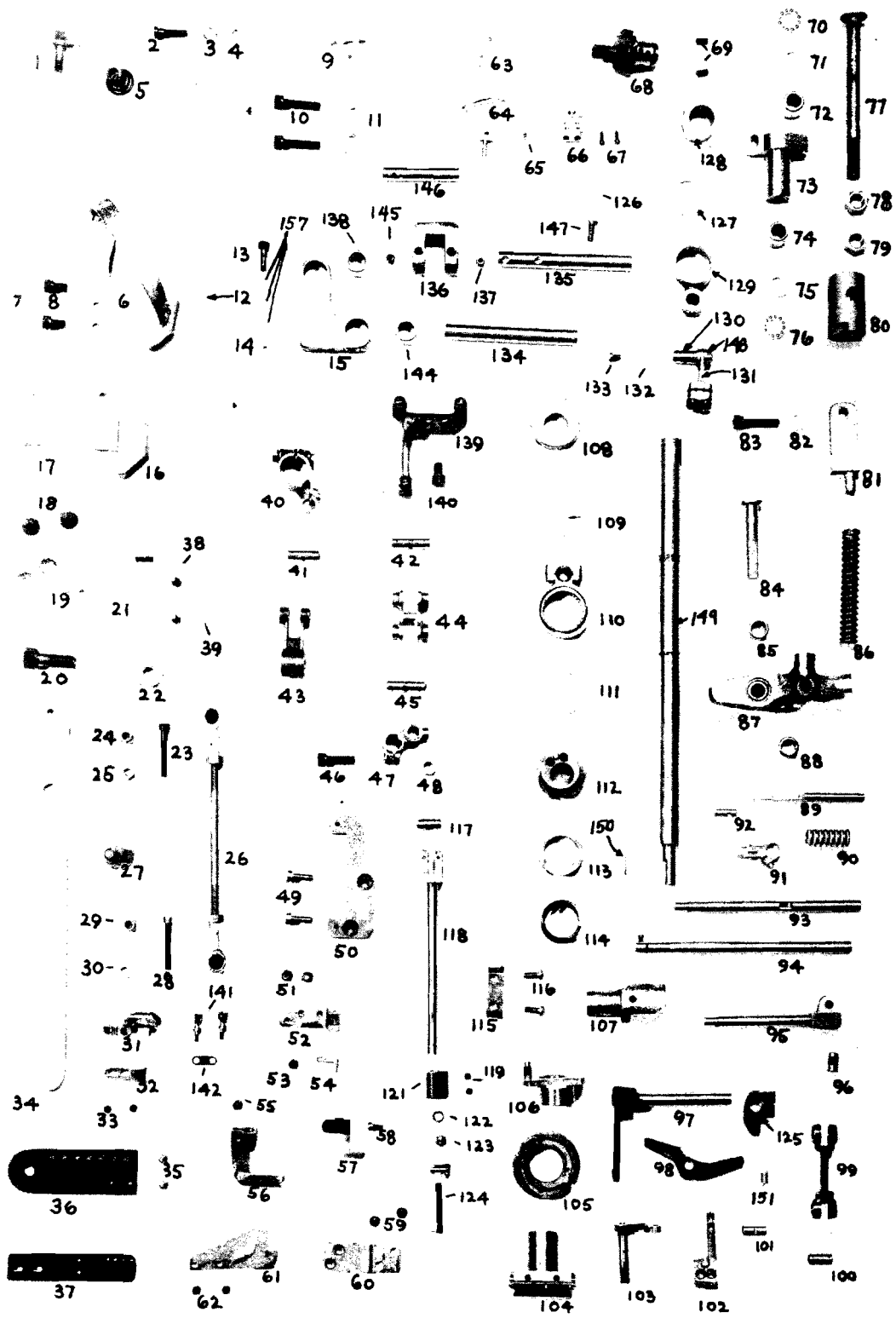
**Note:** These are very close approximate settings. On different sewing heads it may be necessary to vary these settings slightly in order to compensate for such things as thread variance, weight of material being sewn, parts wear and length of stitch. If it is not possible to make the machine sew with these settings, there is probably a problem in some of the inner drives and eccentric assemblies.







Ref. No.	Part No.	Description
1W	267618	Lifting Eccentric Adjusting Disc Spring
2W	268065	Lifting Eccentric Adjusting Disc
3W	267639	Needle Bar Rock Frame Driving Eccentric Flange
4W	268064	Lifting Eccentric
5W	35048C	Feed Driving Eccentric Friction Plate Screw
6W	267623	Lifting Eccentric Friction Plate
7W	267621	Lifting Eccentric Connection Crank
8W	268065	Lifting Eccentric Adjusting Disc
9W	267638	Needle Bar Rock Frame Driving Arm
10W	267624	Lifting Eccentric Spacing Collar
11W	267623	Lifting Eccentric Friction Plate
12W	350548C	Feed Driving Eccentric Friction Plate Screw
13W	267608	Needle Bar Rock Frame Driving Eccentric Connection
14W	267610	Needle Bar Rock Frame Driving Eccentric
15W	267639	Needle Bar Rock Frame Driving Eccentric Flange
16W	268008	Arm Shaft Oil Slinger
17W	267603	Arm Shaft
18W	268006	Arm Shaft Connection Belt Pulley Spring Flange
19W	268004	Arm Shaft Ball Bearing Housing (Back)
20W	200047D	Arm Shaft Ball Bearing Housing Screw (Back)
21W	268270	Arm Shaft Connection Belt (Reinforced Neoprene)
22W	268005	Arm Shaft Ball Bearing (Front)
23W	267633	Lifting Rock Shaft
24W	268169	Needle Thread Tension Releaser Cap
25W	204365	Needle Thread Tension Releaser Spring
26W	268168	Needle Thread Tension Releaser
27W	268167	Needle Thread Tension Bracket
28W	200047E	Needle Thread Tension Bracket Screw
29W	268121	Needle Thread Tension Bracket Spacing Collar
30W	267636	Lifting Rock Shaft Crank
31W	267656	Thread Lubricator
32W	268312	Needle Thread Guide (On Arm Shaft)
33W	200082D	Needle Thread Guide Screw
34W	204348	Foot Lifter Lever Spring (Back)
35W	20001	Needle Thread Guide
36W	20002	Needle Thread Guide Screw
37W	268032	Face Plate Lock Spring
38W	268197	Face Plate Lock Spring Plate
39W	20000	Face Plate Lock Spring Plate Screw
40W	268048	Balance Wheel
41W	20003	Upper Stitch Link Adjusting Lock Pin
42W	267619	Lifting Eccentric Connection



Ref. No.	Part No.	Description
1	20007	Binder Mounting Plate Wing Screw
2	20008	Tension Release Cam Screw
3	20009	Tension Release Cam Washer
4	20010	Tension Release Cam Nut
5	20011	Binder Plate Tension Spring
6	20012	Welt Binder Attachment
7	20013	1-7/16" Binder Mounting Screw Washer
8	20014	1-7/16" Binder Mounting Screw
9	20015	Tension Release Cam
10	20016	Feed Shaft Bearing Mounting Attachment Screw
11	20017	Feed Shaft Bearing Mount Spacer
12	20018	Feed Shaft Bearing Mount
13	20019	Feed Shaft Bearing Mount Screw
14	20020	Feed Shaft Bearing Mount Nut
15	20021	Feed Dog Bearing Support
16	20022	1-7/16" Binder
17	20023	1-7/16" Binder Welt Plate
18	20024	Presser Foot Lift Hold Mounting Screw
19	20025	Presser Foot Lift Hold
20	20026	Presser Foot Lift Arm Mounting Screw
21	20027	Binder Stop Plate
22	20028	Presser Foot Lift Mounting Screw Lock Nut
23	20029	Presser Foot Lift Connecting Link Screw
24	20030	Presser Foot Lift Connecting Link Spacer
25	20031	Presser Foot Lift Connecting Link Lock Nut
26	20032	Presser Foot Lift Connecting Link Assembly
27	20033	Foot Lifter Lever Screw
28	20034	Presser Foot Lift Connecting Link Screw
29	20035	Presser Foot Lift Connecting Link Spacer
30	20036	Presser Foot Lift Connecting Link Lock Washer
31	259552	Binder (Wide Throat 9/16" or 5/8" or 3/4" or 7/8")
32	240659	Tape Guide ( 5/8" or 7/8")
33	20037	Tape Guide Mounting Screws
34	20038	Presser Foot Lifting Arm
35	20039	Tape Tension Plate Assembly Screws
36	240660	Tape Tension Plate
37	20040	Tape Binder Mounting Plate
38	20041	Binder Plate Stop Mounting Screws
39	20042	Binder Plate Stop Mounting Screw Washer
40	268307	Looper Carrier Crank
41	268208	Looper Carrier Crank Hinge Pin
42	268079	Looper Thread Take-Up Driving Connection Hinge Stud
43	268098	Looper Driving Connection
44	268078	Feed Lifting Link
45	268079	Looper Thread Take-Up Driving Connection Hinge Stud
46	20043	Lower Feed Arm Lock Screw
47	268075	Feed Lifting Crank
48	20044	Lower Feed Arm Lock Screw Nut
49	200035E	Spreader Bar Bearing Screw
50	268184	Spreader Bar Bearing
51	20046	Lower Feed Dog Mounting Screws
52	20047	Lower Feed Dog

Ref. No.	Part No.	Description
53	20048	Needle Deflector Plate Screw
54	20049	Needle Deflector Plate
55	20045	Lifting Presser Foot Pinch Screw
56	267632	Lifting Presser Foot
57	267659	Vibrating Presser Foot
58	200078F	Vibrating Presser Foot Pinch Screw
59	20050	Lower Feed Dog Mounting Plate Attachment Screw
60	20051	Lower Feed Dog Mounting Plate
61	20052	Lower Feed Dog Mounting Plate Bracket
62	20053	Lower Feed Dog Mounting Plate Bracket Screws
63	268310	Looper Needle Guard
64	268309	Looper
65	20054	Looper Needle Guard Screw
66	268602	Looper Holder
67	350478C	Looper Locking Screw
68	268277	Looper Driving Crank
69	20055	Lower Feed Eccentric Set Screw
70	20056	Looper Pivot Thrust Bearing
71	20057	Looper Pivot Thrust Washer
72	20058	Looper Pivot Needle Bearing
73	268367	Looper Pivot Bracket
74	20058	Looper Pivot Needle Bearing
75	20057	Looper Pivot Thrust Washer
76	20056	Looper Pivot Needle Bearing
77	20062	Looper Bracket Pivot Shaft
78	20063	Looper Bracket Pivot Shaft Lock Nut
79	20063	Looper Bracket Pivot Shaft Lock Nut
80	268097	Looper Carrier Shaft Bushing (Right)
81	20065	Vibrating Presser Foot Tension Spring Bracket
82	20066	Vibrating Presser Foot Tension Bracket Washer
83	20067	Vibrating Presser Foot Tension Bracket Screw
84	267526	Vibrating Presser Foot Arm Shaft
85	GB66	Torrington Needle Bearing
86	20068	Vibrating Presser Foot Tension Spring
87	267625	Lifting Lever
88	GB66	Torrington Needle Bearing
89	267630	Lifting Presser Foot Guide Pin
90	20070	Vibrating Presser Foot Auxiliary Spring
91	267629	Lifting Presser Foot Guide Pin Clamp
92	20072	Lifting Presser Foot Guide Pin Plug
93	267628	Lifting Presser Bar
94	20073	Needle Bar
95	267657	Vibrating Presser Bar
96	267617	Lifting Presser Foot Linkage Pin
97	267612	Presser Foot Lifting Arm Link
98	267613	Foot Lifter Lever (Front)
99	267627	Lifting Link
100	267617	Lifting Presser Foot Linkage Pin
101	267617	Lifting Presser Foot Linkage Pin
102	267616	Lifting Crank
103	267631	Lifting Presser Bar Lifting Crank
104	268315	Feed Driving Flange
105	268065	Lifting Eccentric Adjusting Disc

Ref. No.	Part No.	Description
106	268064	Lifting Eccentric
107	267646	Presser Bar Spring Arm Fulcrum
108	268046	Spreader Driving Eccentric Counter Balance
109	20069	Spreader Driving Connection Spacer
110	268186	Spreader Driving Connection
111	20069	Spreader Driving Connection Spacer
112	268045	Spreader Driving Eccentric
113	268067	Feed Driving Eccentric Adjusting Disc Spring Collar
114	268220	Spreader Driving Eccentric Thrust Washer
115	267623	Feed Driving Eccentric Friction Plate
116	20081	Lifting Eccentric Clamp Screw
117	268190	Spreader Driving Pin
118	268181	Spreader Bar
119	200380C	Spreader Holder Set Screws
121	268185	Spreader Holder
122	204925	Spreader Screw Washer
123	350149C	Spreader Screw
124	268620	Spreader
125	267611	Foot Lifter Arm
126	208636	Looper Holder Screw Washer
127	20059	Feed Lifting Connection Spacer
128	268047	Feed Lifting Eccentric
129	268074	Feed Lifting Connection
130	268062	Feed Lifting Connection Hinge Stud
131	268198	Feed Lifting Rock Shaft Crank
132	20060	Feed Lifting Connection Hinge Stud Washer
133	20061	Feed Lifting Connection Hinge Stud Screw
134	268080	Feed Lifting Rock Shaft
135	268070	Feed Driving Rock Shaft
136	20074	Lower Feed Dog Swivel Bracket
137	20075	Lower Feed Dog Swivel Bracket Set Screw
138	GB78	Torrington Needle Bearing
139	268034	Feed Bar
140	20080	Lower Feed Mounting Bracket Screw
141	20082	5/8" Binder Attachment Screw
142	230251	5/8" Binder Attachment Screw Plate
144	GB78	Torrington Needle Bearing
145	20075	Lower Feed Dog Swivel Bracket Set Screws
146	268035	Feed Bar Hinge Pin
147	350267E	Looper Holder Screw
148	201522E	Feed Lifting Connection Hinge Stud Nut
149	268054	Lower Horizontal Drive Shaft
150	62 x 59 #24	Needle
151	203941	Foot Lifter Lever Spring (Front)
152	268191	Spreader Driving Rock Shaft
153	268072	Spreader Driving Rock Shaft Collar
154	201736A	Spreader Driving Rock Shaft Screw Stud Nut
155	350466C	Spreader Driving Rock Shaft Screw Stud
156	268187	Spreader Driving Crank
157	20156	Feed Shaft Bearing Mount Screw Washers