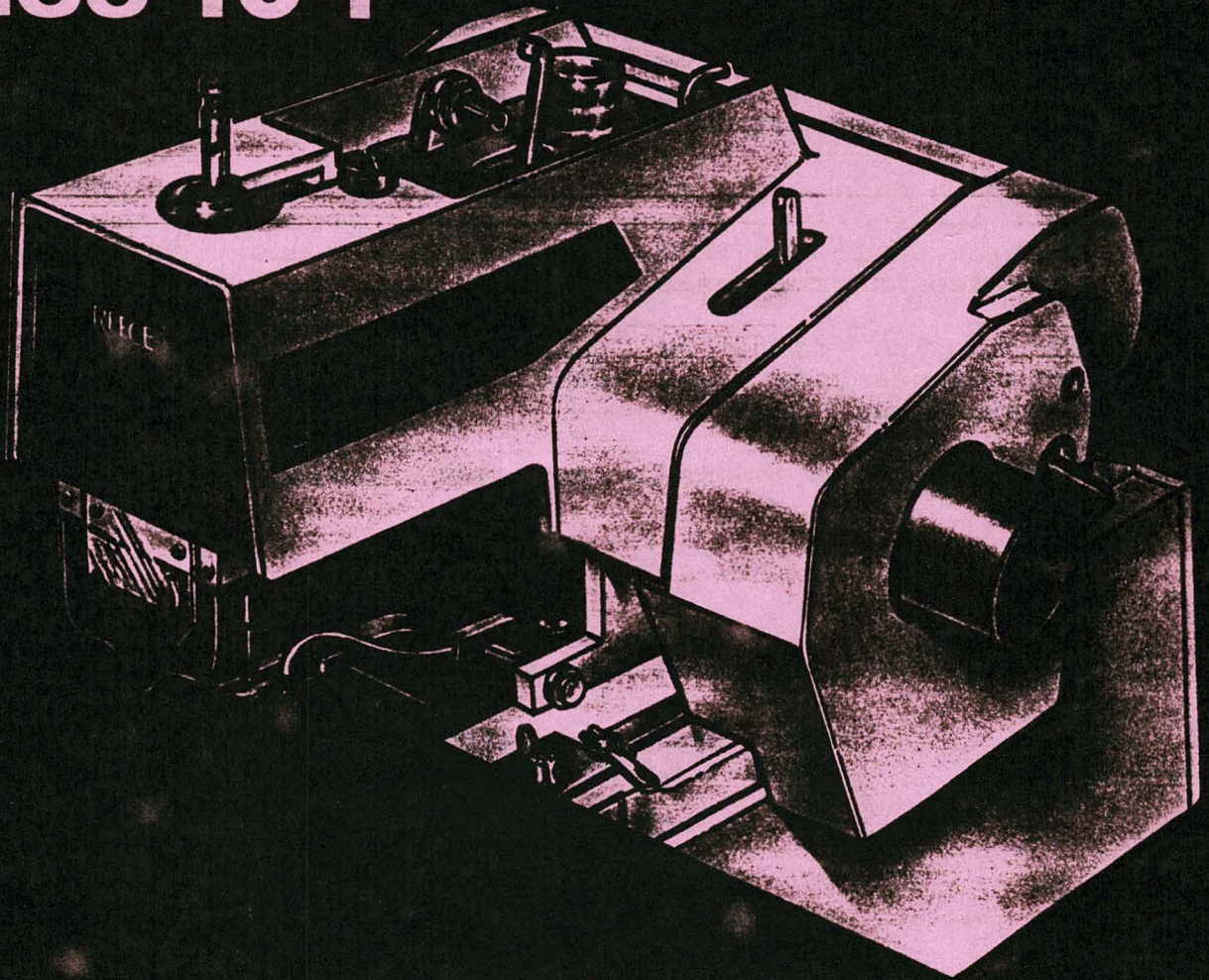


Illustrated Parts List

Buttonhole Machines Series 104



REECE

COPYRIGHT

No safeguard, safety appliance, or device attached to or forming an integral part of this machine shall be removed or made ineffective except for the purpose of making immediate repairs or adjustments.

Any such safeguard, safety appliance, or device removed or made ineffective during the repair or adjustment of such machine shall be replaced immediately upon completion of such repair or adjustment.

No machine shall be operated until such repairs or adjustments have been made and the machine is in good working condition.

Safety glasses should be worn when operating the machine.

JULY 1988

This illustrated parts list is published by

THE REECE CORPORATION

Gorham Industrial Park
Gorham, Maine 04038

"Precision and Quality Since 1881"

P/N 97-0104-0-001



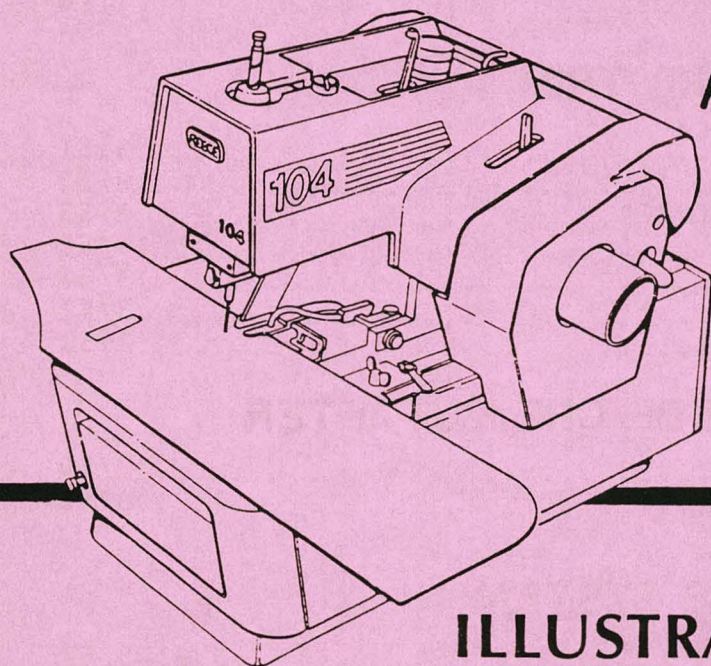
BUTTONHOLE MACHINES

series 104

MODELS

AF · CA · R · RE

AF · CB · R · RE



ILLUSTRATED PARTS SECTION

This section contains parts for Reece series 104 Adjustable Flybar models and also those parts considered basic to all Reece series 104 models. When searching for replacement parts for models other than the Adjustable Flybar, first refer to that section in this manual. Parts not listed there should be considered basic and will be found in this section of the manual.

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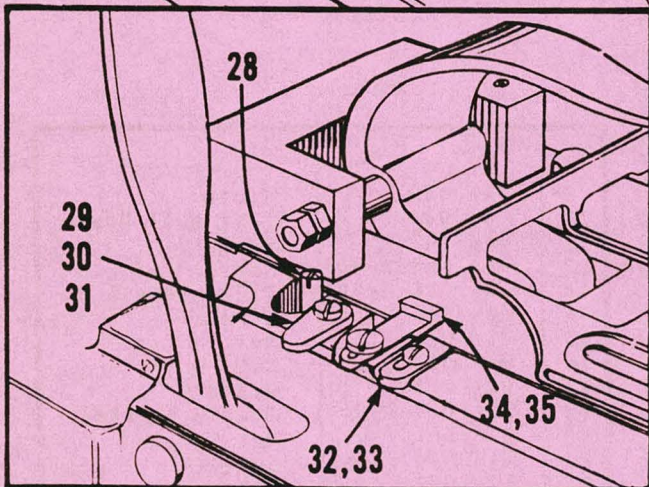
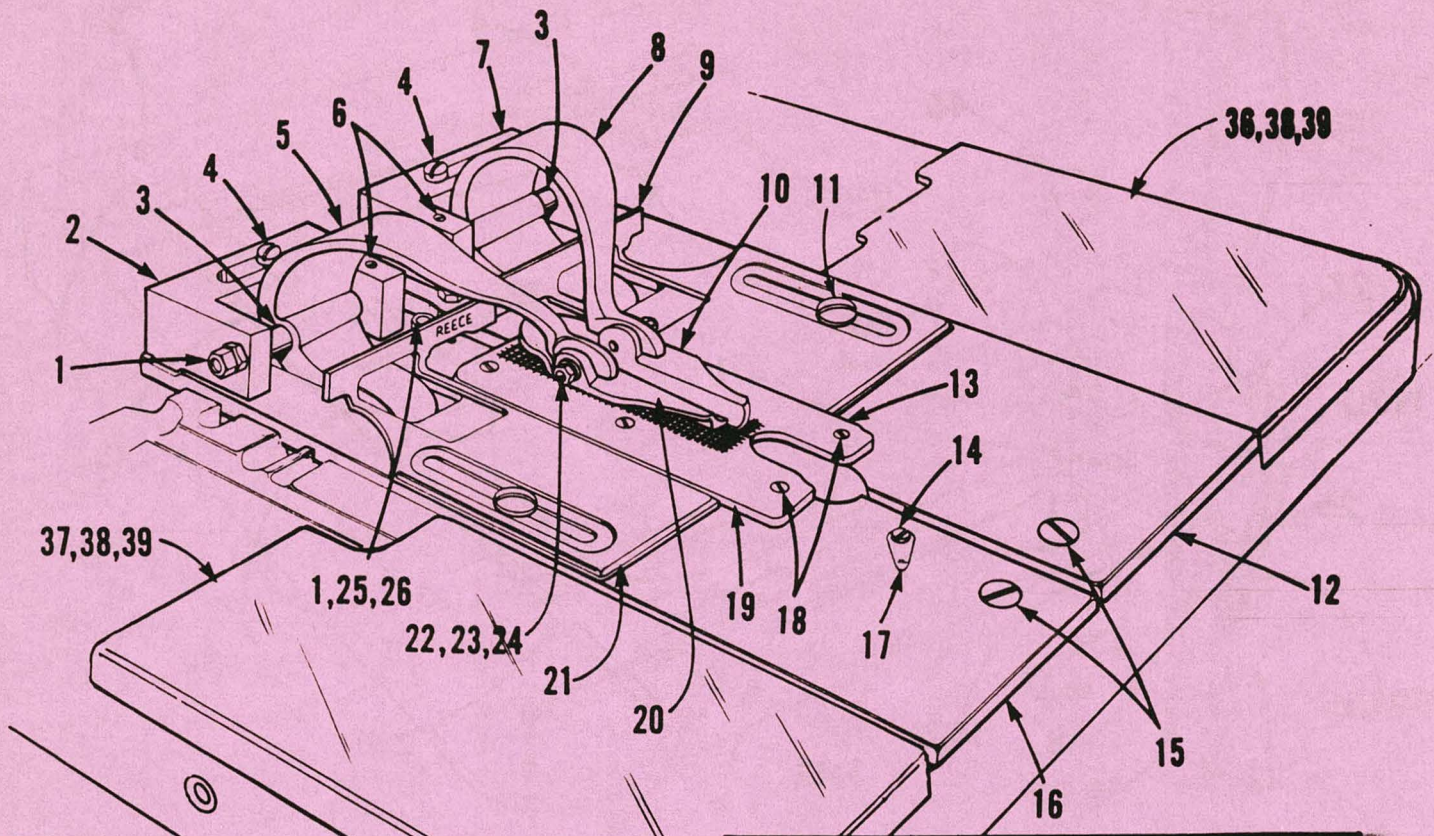
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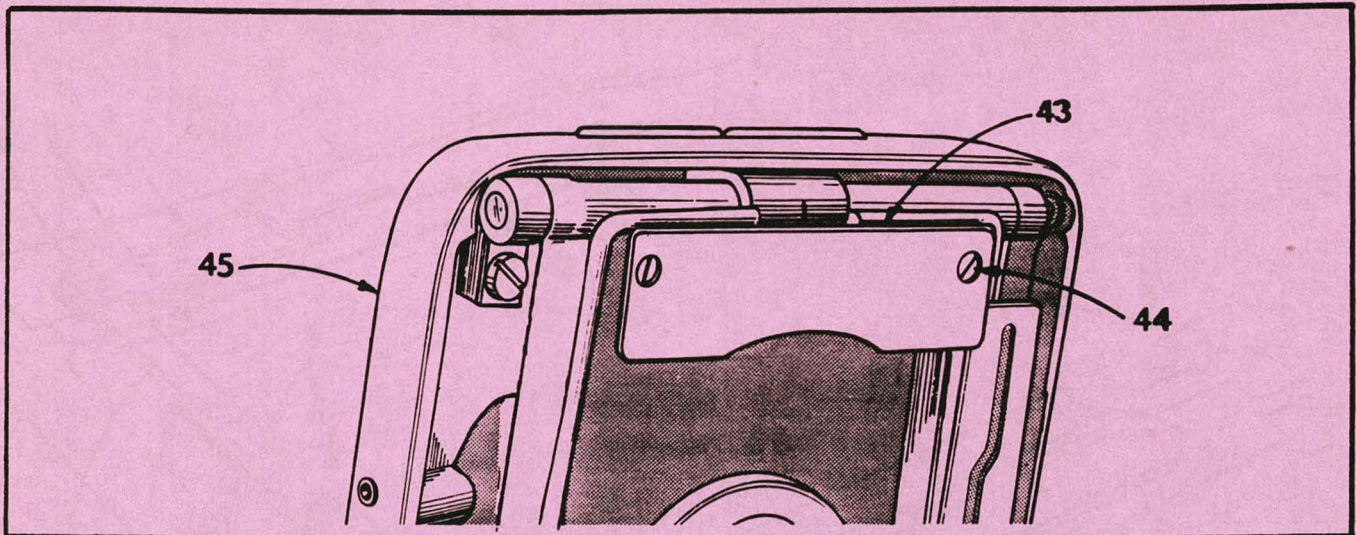
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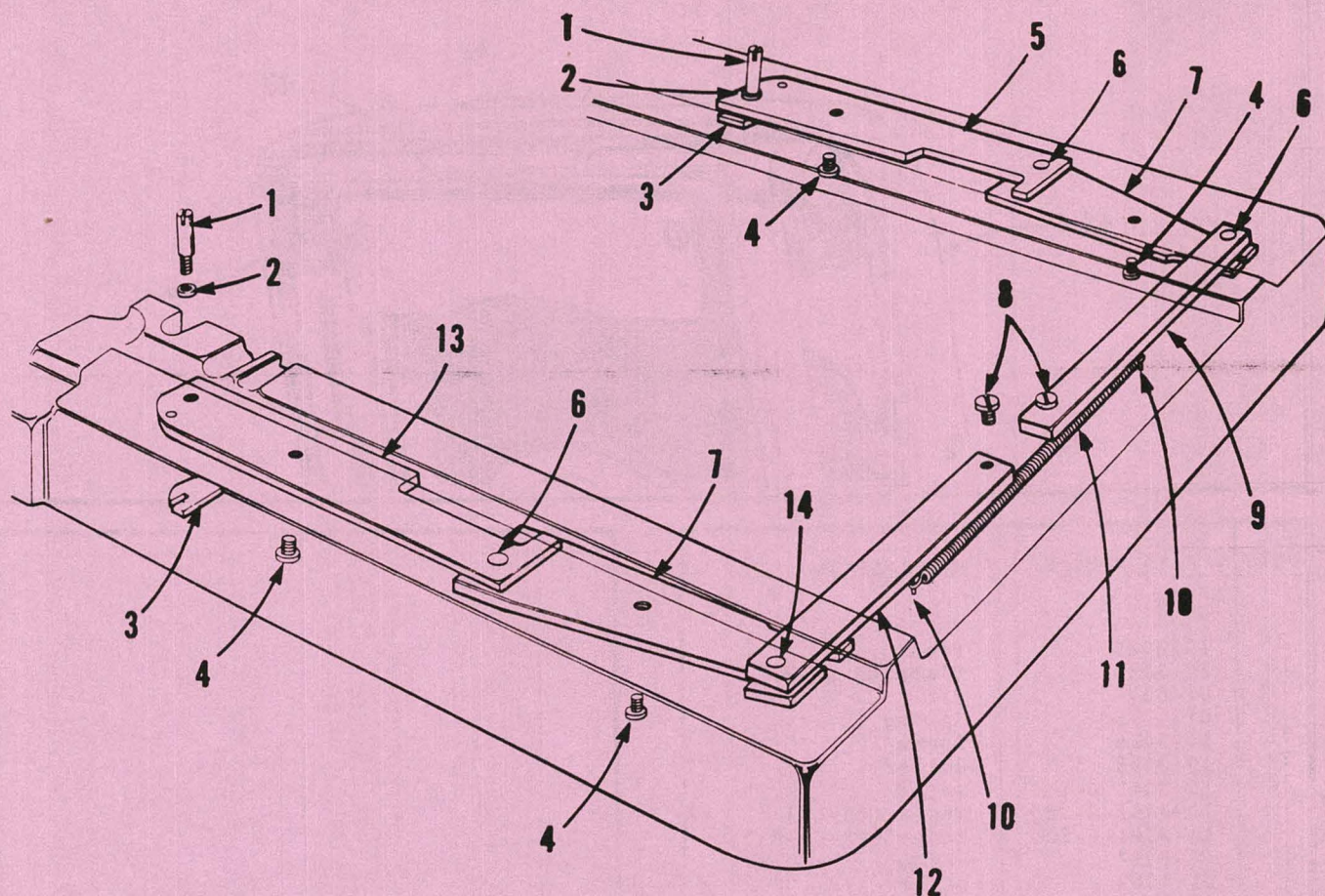


DET.	PART NUMBER	DESCRIPTION
1	01-3001	Nut
2	10-2049	Left Block
3	10-2053	Shaft
4	01-2051	Screw
5	10-2050-2-701	Clamp Arm, L.H.
6	01-2052	Screw
7	10-2045	Block, R.H.
8	10-2046-2-701	Clamp Arm, R.H.
9	10-2059-1	Cloth Gauge, R.H.
10	10-2046-1-751	Clamp Foot, R.H.
11	01-2111	Screw
12	10-2043-1-019	Clamp Plate, R.H.

13	10-2044-0-001 10-2044-0-002	Clamp Mat, R.H. Clamp Mat, R.H. (for CB/CA) (for AF-CB-R-FE)
14	01-2053	Screw
15	01-1020-1	Screw
16	10-2047-1-019	Clamp Plate, L.H.
17	10-2054	Clip
18	01-2015	Screw
19	10-2048-0-001 10-2048-0-002	Clamp Mat, L.H. Clamp Mat, L.H. (for CB/CA)
20	10-2050-1-750	Clamp Foot, L.H. (for AF-CB-R-FE)
21	10-2060-1	Cloth Gauge, L.H.
22	01-1137	Screw
23	01-3016	Nut
24	01-4038	Spring Washer
25	10-2051-2	Screw
26	10-2052	Roll
28	10-2042	Screw
29	10-2030	Screw
30	10-2029	Latch
31	01-5022	Spring
32	10-2032	Stop
33	01-2312	Screw
34	10-2031	Slide
35	01-2050	Screw
36	10-2001-0-003 10-2001-0-001	Cover, R.H. Cover, R.H.
37	10-2001-0-002	Cover, L.H.
38	05-1131	Adhesive
39	05-1132	Activator



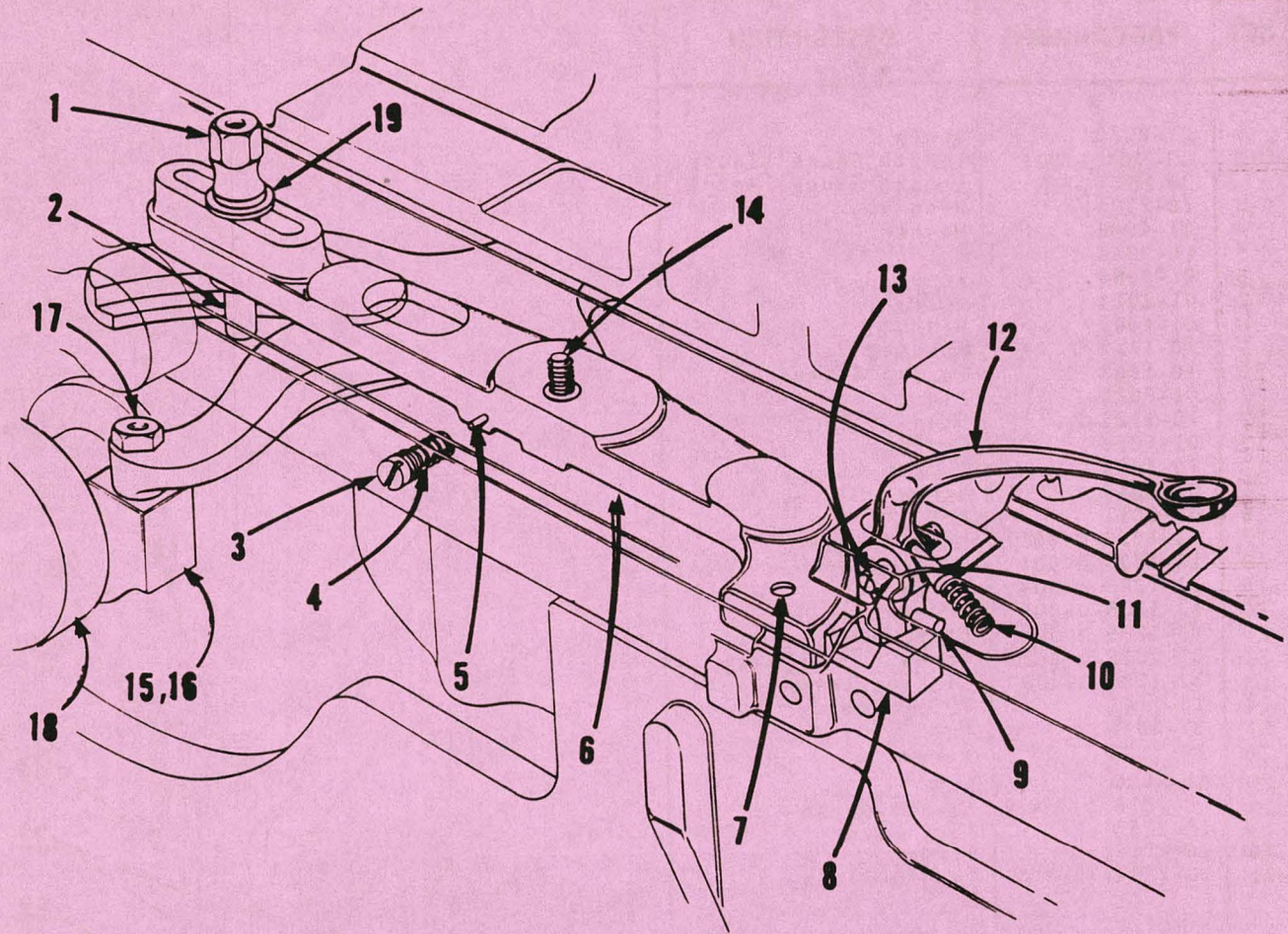
DET.	PART NUMBER	DESCRIPTION			
27	10-2020	Pivot			
28	10-3023	Clamping Lever			
29	01-6014	Pin			
30	01-5015	Spring			
31	10-3026	Screw			
32	10-3025	Roller			
33	10-3061-0-150	Wedge			
	10-3061-0-300	Wedge (CB/CA)			
	10-3061-0-200	Wedge (AF-CB-R-FE)			
34	01-2347	Screw			
35	01-4061	Washer			
36	10-3022	Arm			
37	01-4006	Washer			
38	01-2030	Screw			
39	01-1076	Bolt			
40	01-2030	Screw			
41	13-2026-0-005	Clamp Yoke LH			
42	01-3014	Nut			
43	13-2077-1	Finger Guard			
44	01-1613-0-003	Screw			
45	14-2001-0-250	Bedplate			
46	13-2087-1	Bumper			



DET.	PART NUMBER	DESCRIPTION
1	10-2042	Screw
2	01-4067	Washer
3	10-2041	Locking Plate
4	01-1021	Screw
5	10-2040-0-050	Right Link Asm.
6	01-6075	Pin
7	10-2036	Lever
8	01-1020-1	Screw
9	10-2033	Right Clamp Side
10	01-6135-0-001	Pin
11	01-5023	Spring
12	10-2034	Left Clamp Side
13	10-2039-0-050	Left Link
14	01-6074	Pin

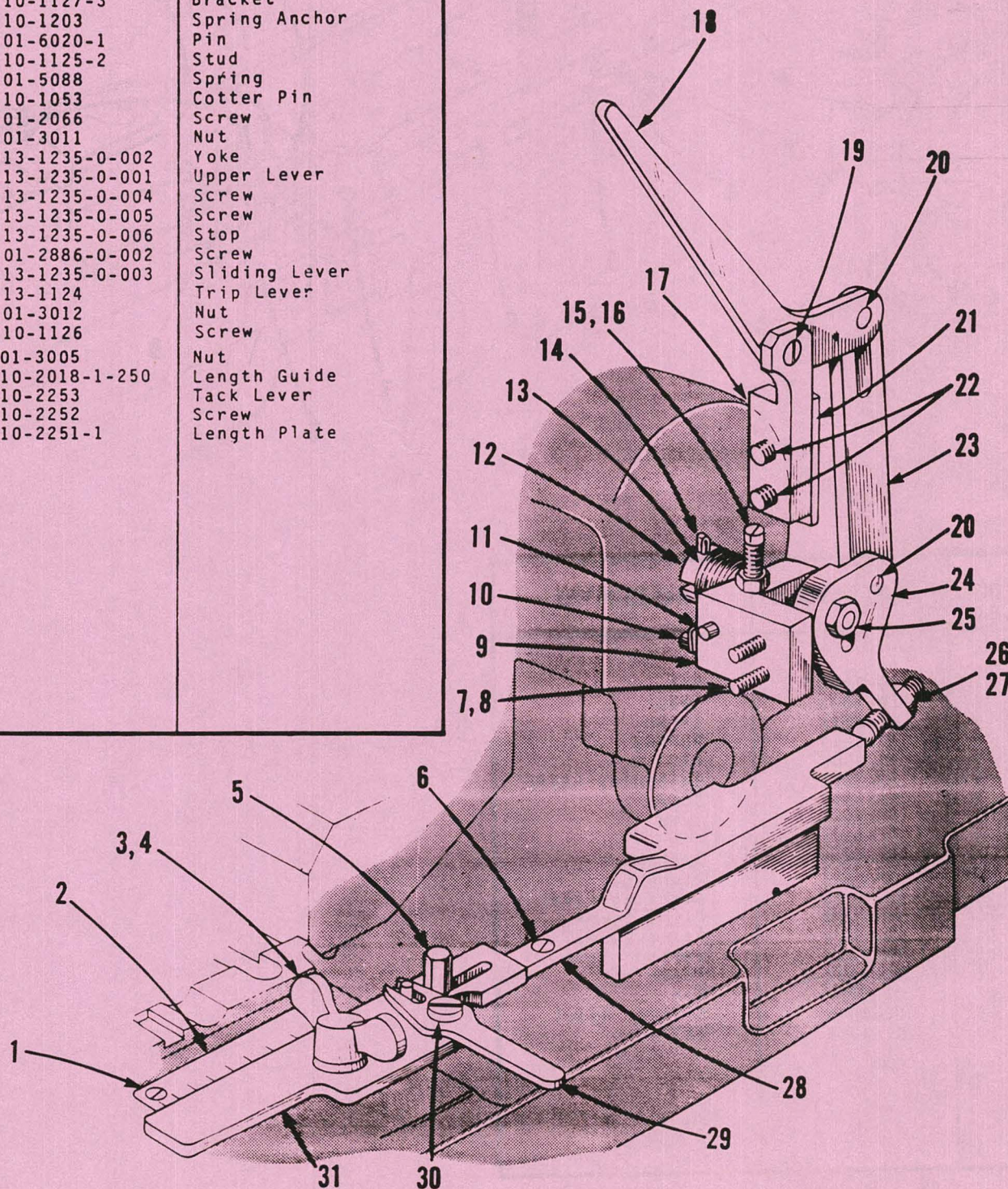
STARTING LEVER

3/5



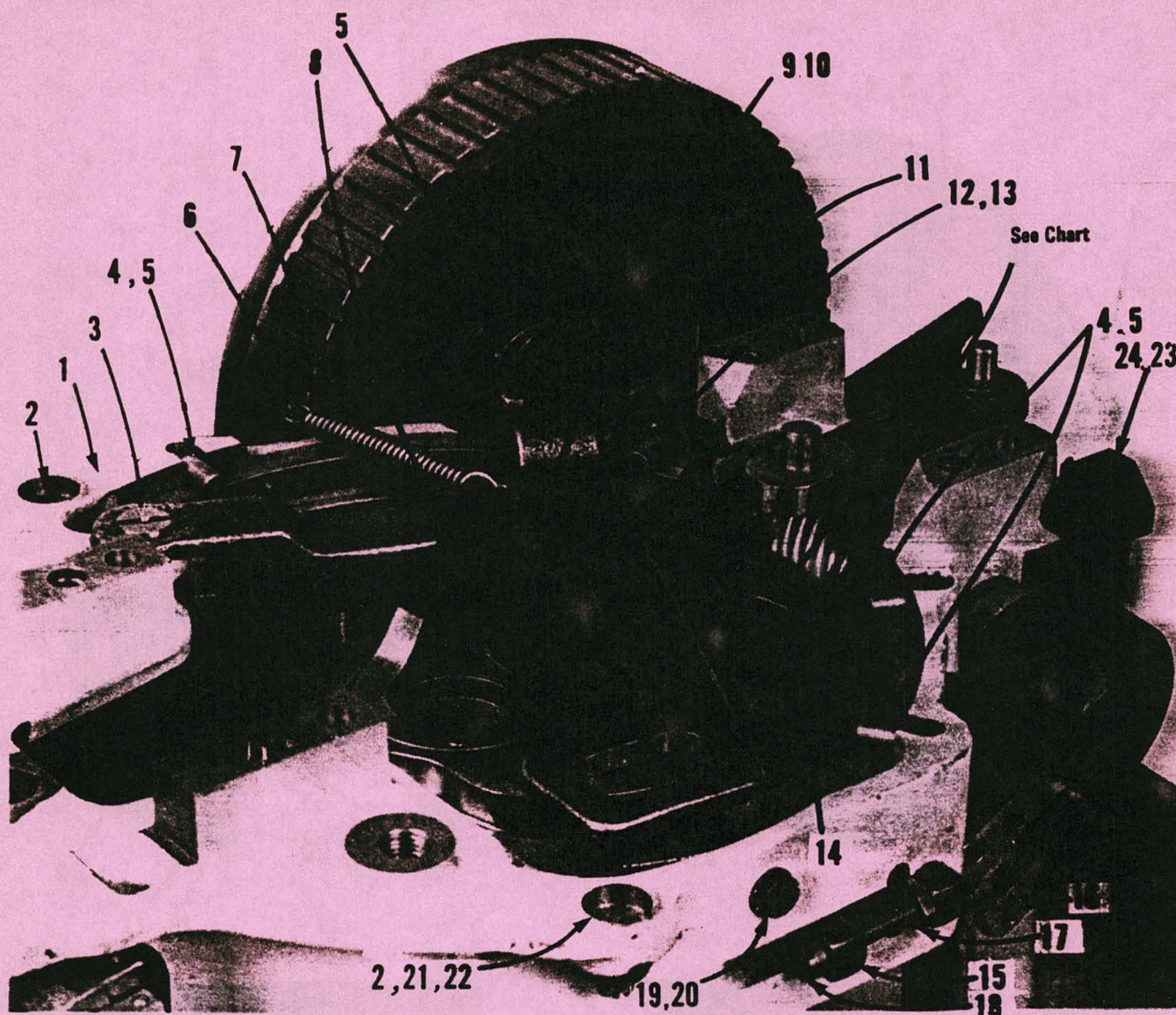
DET.	PART NUMBER	DESCRIPTION
1	10-2008	Nut
2	10-2009	Stud
3	01-2071	Screw
4	01-5019	Spring
5	01-6006	Pin
6	10-2012	Switching Lever
7	01-2041	Screw
8	10-2010	Trip
9	01-6011	Pin
10	01-5020	Spring
11	10-2015	Plunger
12	10-2013	Starting Lever
13	10-2014	Pivot Screw
14	10-2011	Pivot Screw
15	10-3031	Shifter Shoe
16	01-2032-1	Screw
17	01-3007	Nut
18	10-3045	Shifter Spool
19	01-4006	Washer

DET.	PART NUMBER	DESCRIPTION
1	01-2075	Screw
2	10-2261-0-030	Length Gauge (Inches)
	10-2261-0-040	Length Gauge (Metric)
3	10-2254-1	Wing Nut
4	01-4006	Washer
5	10-2250-1	Nut
6	01-2084	Screw
7	01-2024	Screw
8	01-4003	Washer
9	10-1127-3	Bracket
10	10-1203	Spring Anchor
11	01-6020-1	Pin
12	10-1125-2	Stud
13	01-5088	Spring
14	10-1053	Cotter Pin
15	01-2066	Screw
16	01-3011	Nut
17	13-1235-0-002	Yoke
18	13-1235-0-001	Upper Lever
19	13-1235-0-004	Screw
20	13-1235-0-005	Screw
21	13-1235-0-006	Stop
22	01-2886-0-002	Screw
23	13-1235-0-003	Sliding Lever
24	13-1124	Trip Lever
25	01-3012	Nut
26	10-1126	Screw
27	01-3005	Nut
28	10-2018-1-250	Length Guide
29	10-2253	Tack Lever
30	10-2252	Screw
31	10-2251-1	Length Plate



MAIN CAM & SHIFTING LEVER

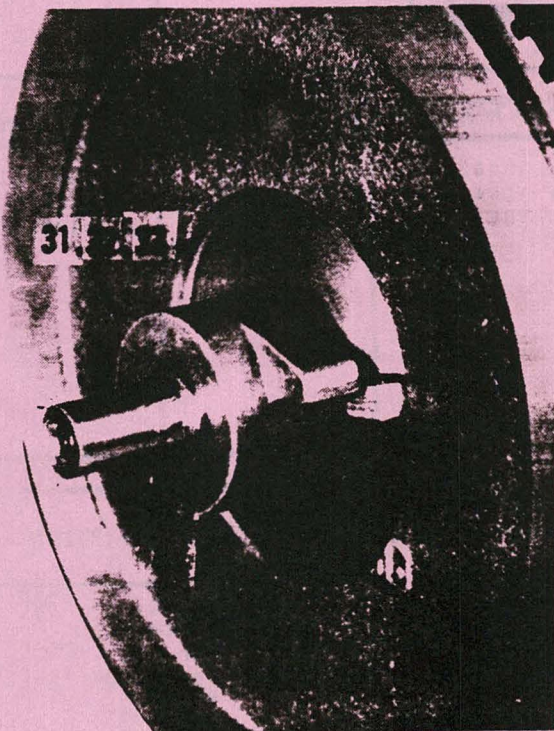
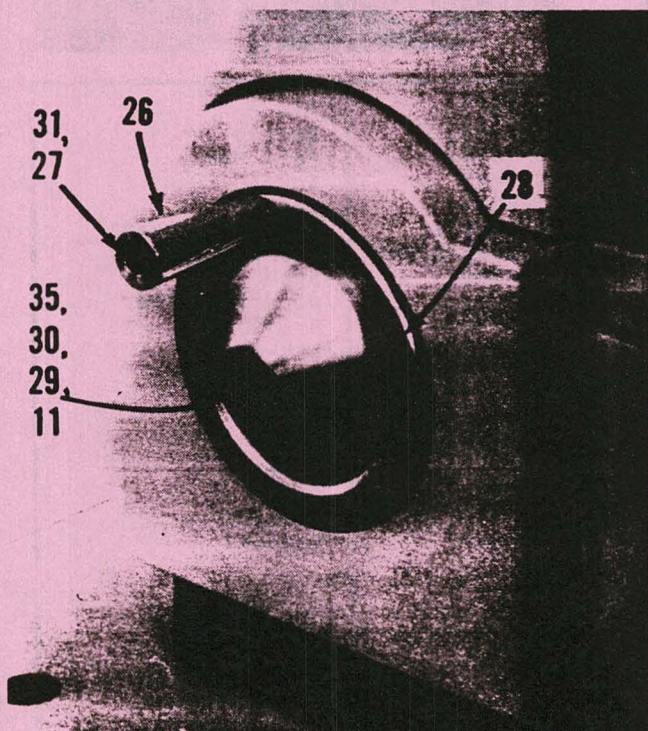
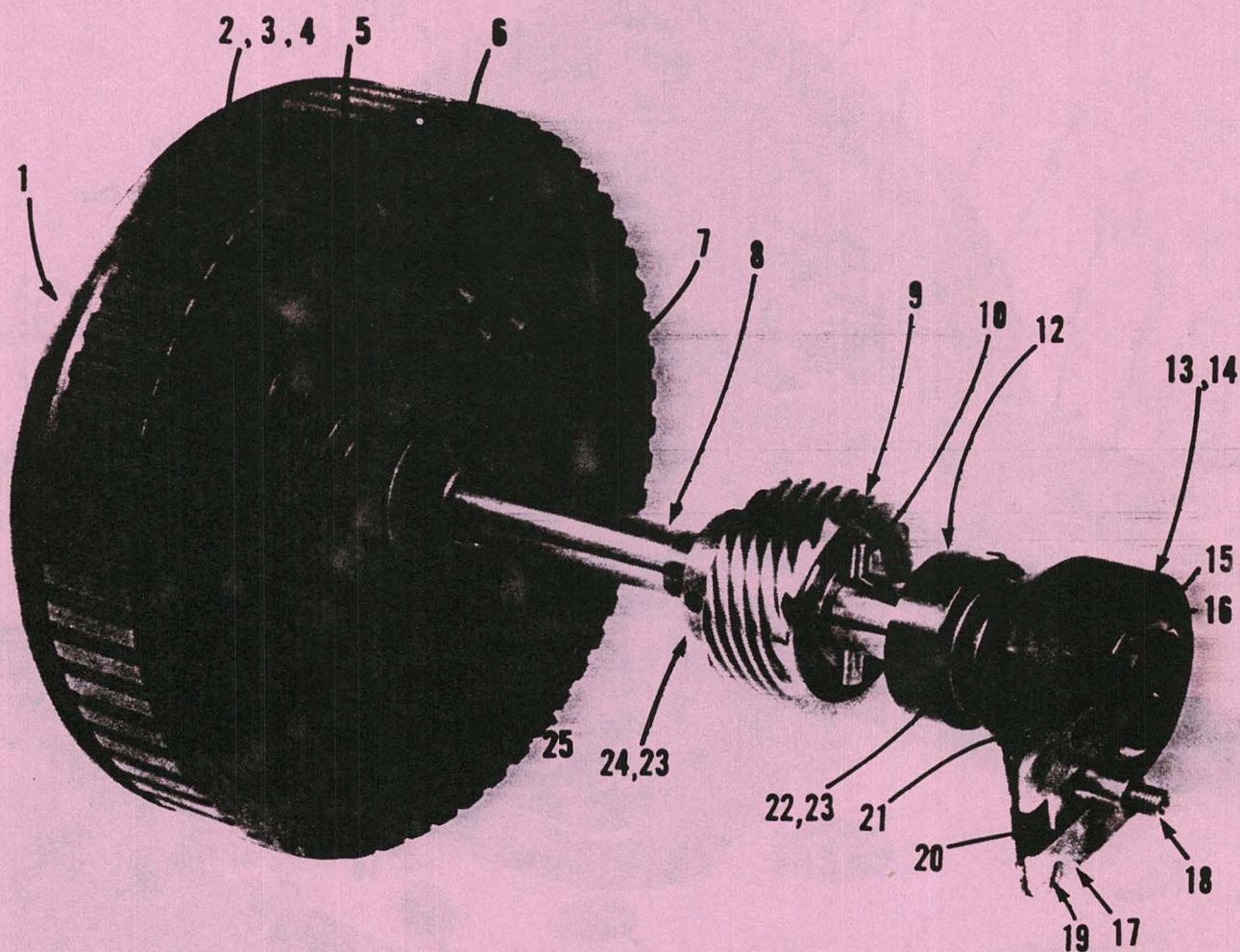
37



MAIN CAM CHART		
PART NUMBER	DESCRIPTION	STYLE NO.
14-3064-0-001	AF-CA-R-RE	14-0000-0-016
14-3064-0-001	AF-CB/CA-R-RE	14-0000-0-030
10-3064-0-011	AF-CB-R-FE	14-0000-0-022

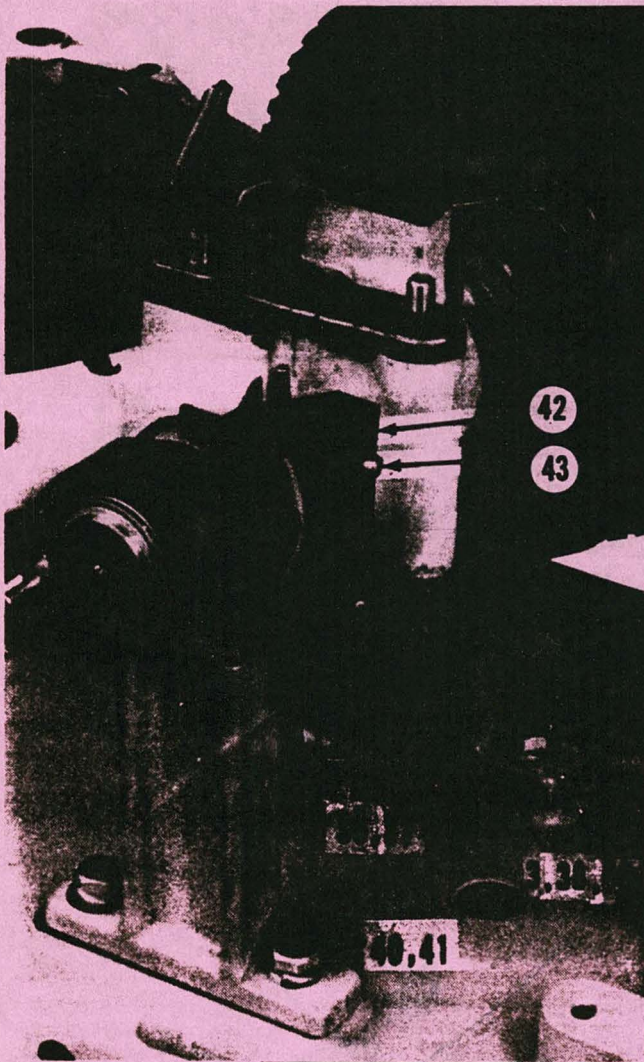
DET.	PART NUMBER	DESCRIPTION
1	13-3001	Cam Case
2	10-3028	Button
3	10-3032-1	Screw
4	10-3066-0-011	Long Hook
5	01-3007	Nut

6	01-6025	Pin
7	01-5055	Spring
8	10-3030	Felt Pad
9	01-2004	Screw
10	01-4001	Washer
11	10-3029-1	Shifting Lever
12	10-3066-0-008	Short Hook
13	01-3059	Nut
14	10-3035-1	Hold Down Gib
15	10-3036	Brake Band
16	01-6345	Lug
17	01-3005	Nut
18	01-2033	Screw
19	01-4018	Washer
20	01-2027	Screw
21	01-2067	Screw
22	01-3015	Nut
23	01-2128	Screw
24	13-3083	Support



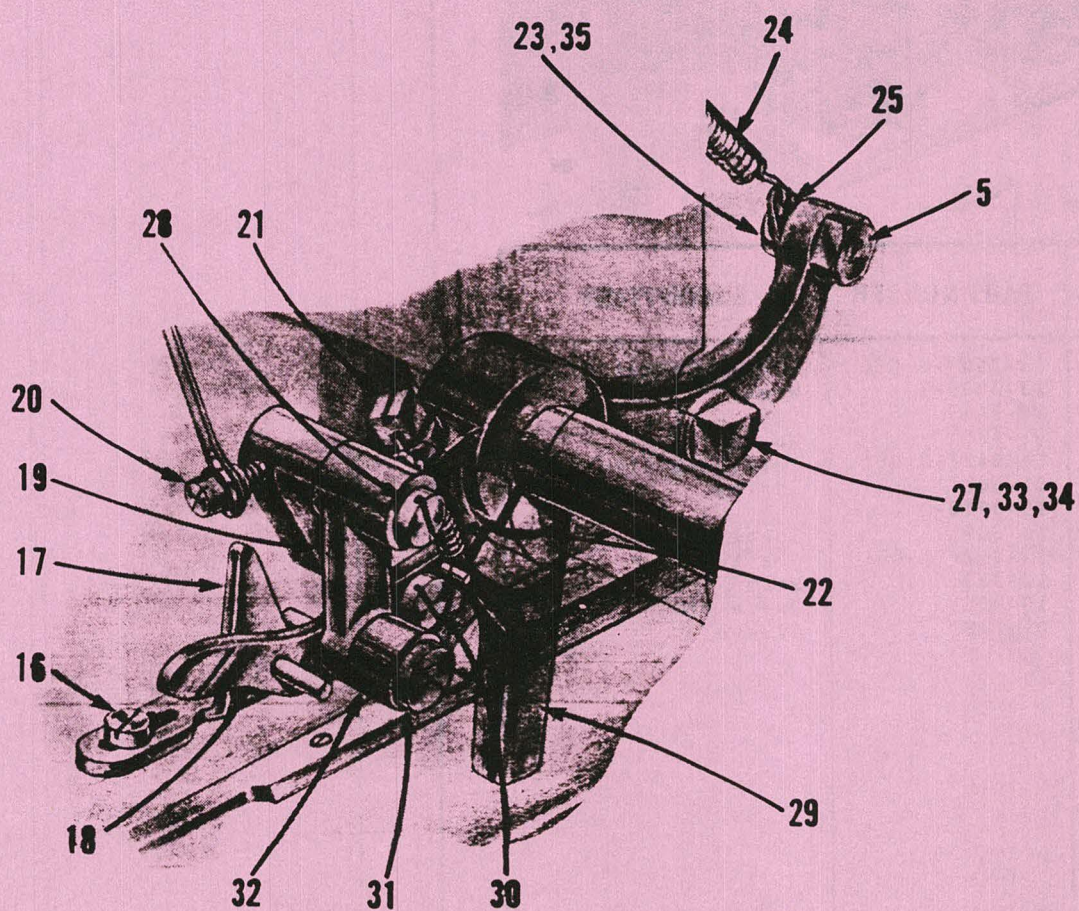
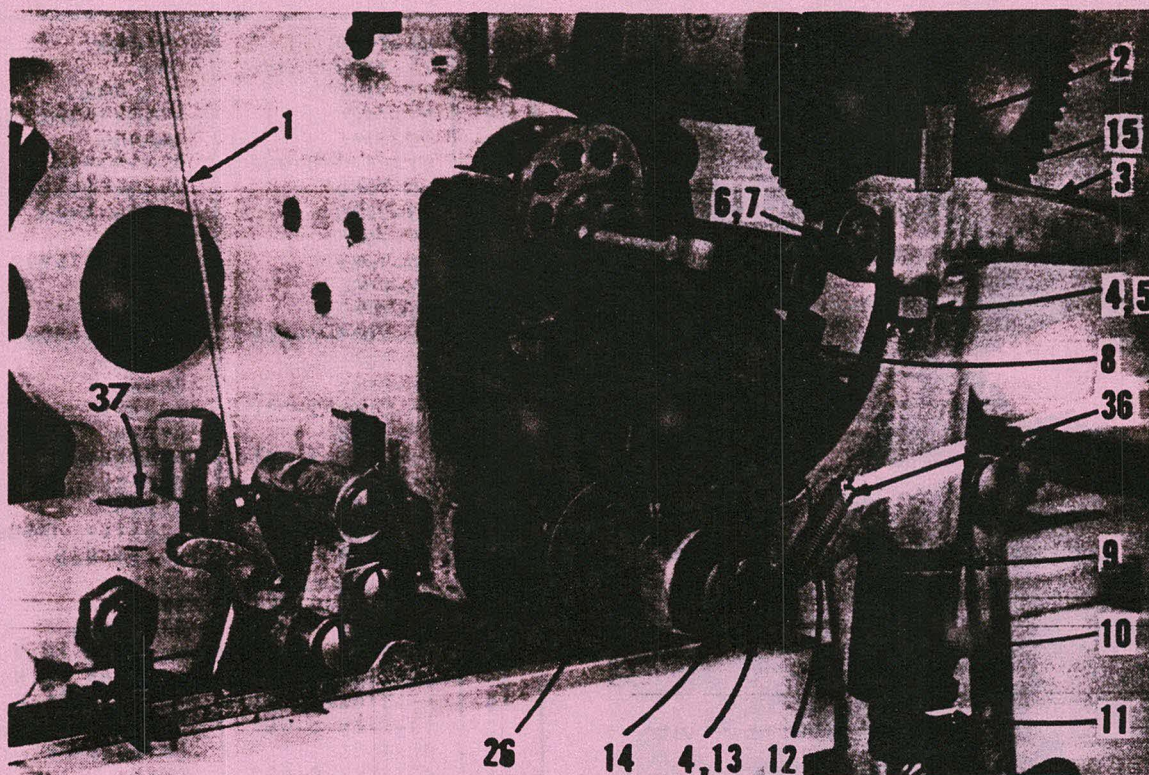
DRIVE SHAFT

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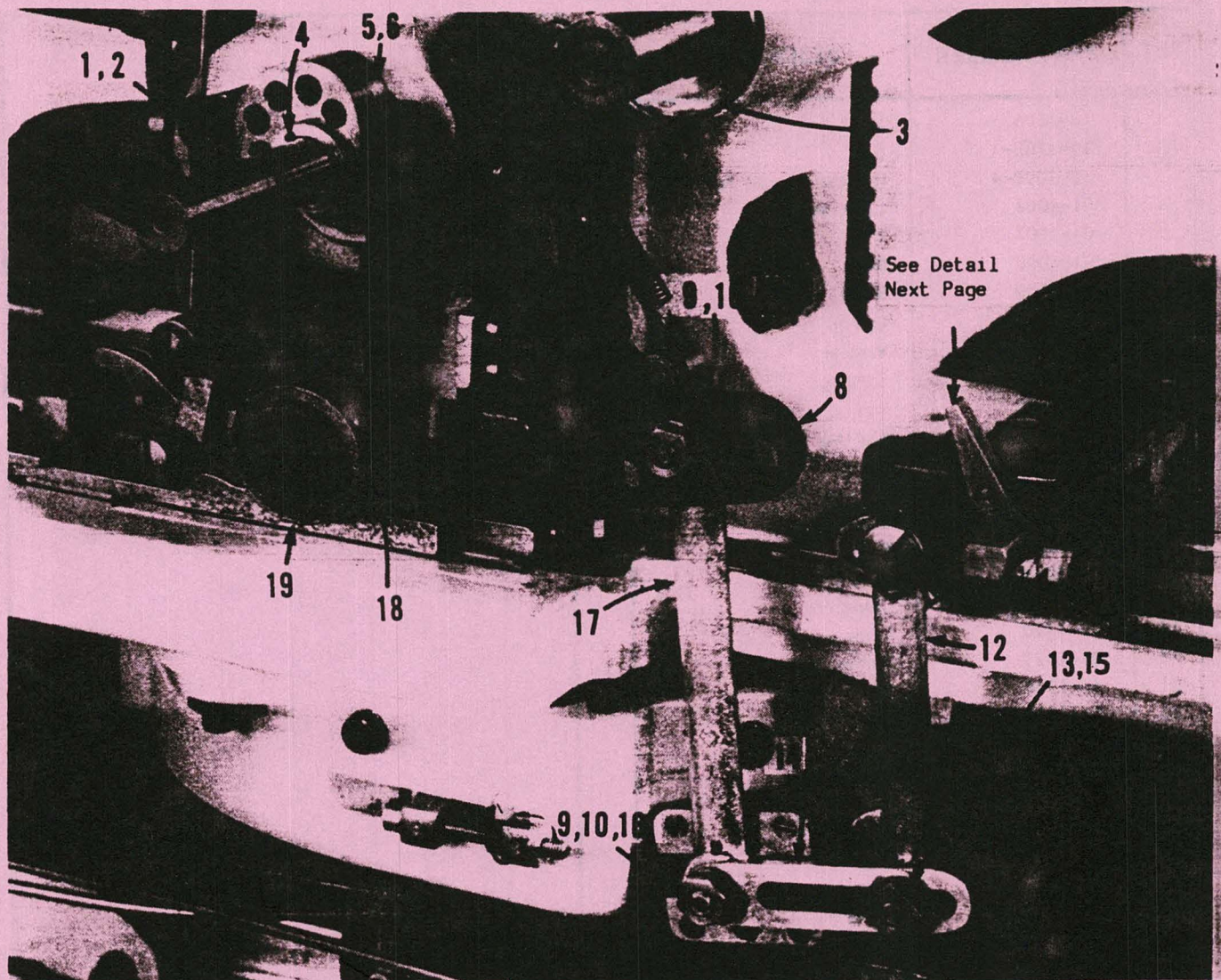
12	01-7668	Collar
13	13-3100-0-001	Arm
	13-3100	Arm Asm.
14	01-7624	Clutch and Bearing
15	01-4746	Washer
16	01-6670-0-002	Retaining Ring
17	10-3080	Outer Plate
18	13-3079	Slide Stud
19	01-2075	Screw
20	10-3082	Inner Plate
21	01-2008	Screw
22	01-4747	Washer
23	01-4009-0-001	Lock Washer
24	10-3049	Collar
25	01-2035	Screw
26	13-3101-2-002	Handle
27	01-1470	Screw
28	13-3101-2-001	Handwheel
29	01-7653	Bearing
30	13-3117	Screw
31	05-0192	Loctite Grade C
32	13-3123	Drive Hub
33	01-1568-0-001	Screw
34	01-8007-0-001	Key
35	01-4482	"O" Ring
36	13-3105	Bracket (R.H.)
37	13-3106-0-002	Bushing (R.H.)
38	13-3102-0-001	Bracket (L.H.)
39	13-3106-0-001	Bushing (L.H.)
40	01-4581	Lockwasher
41	01-2877-0-003	Screw
42	13-3083	Support
43	01-2128	Screw
44	13-3097-1	Bracket

DET.	PART NUMBER	DESCRIPTION
1	13-3039-1-050	Cutting Wheel Asm.
	13-3039-1	Wheel
2	10-3042	Dog
3	01-4764	Washer
4	01-6422-0-005	Retaining Ring
5	01-5017	Spring
6	10-3040-1	Dog
7	10-3045	Spool
8	13-3047-1-801	Shaft
9	10-3050	Worm
10	10-3051	Drive Pin
11	01-7722	Sleeve



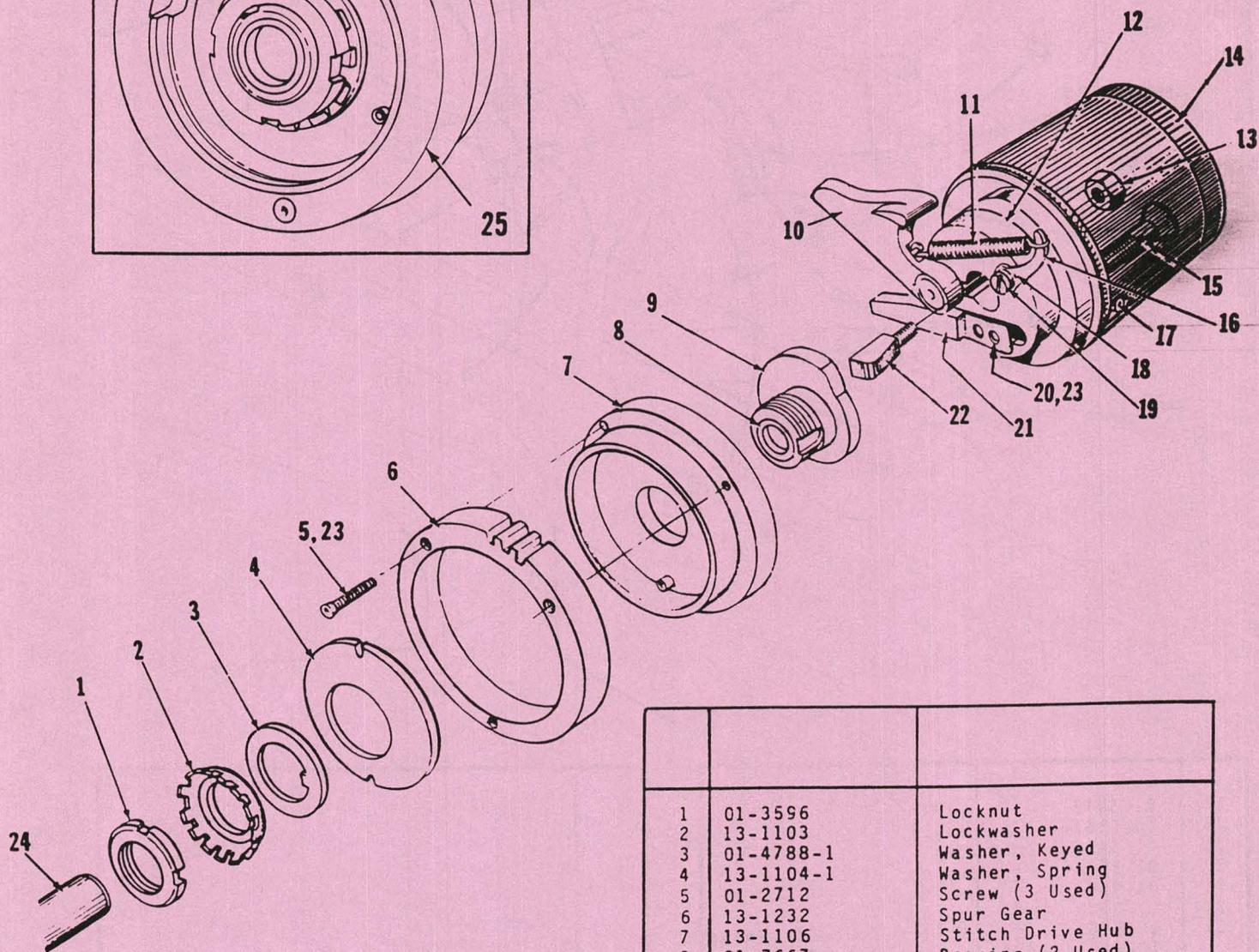
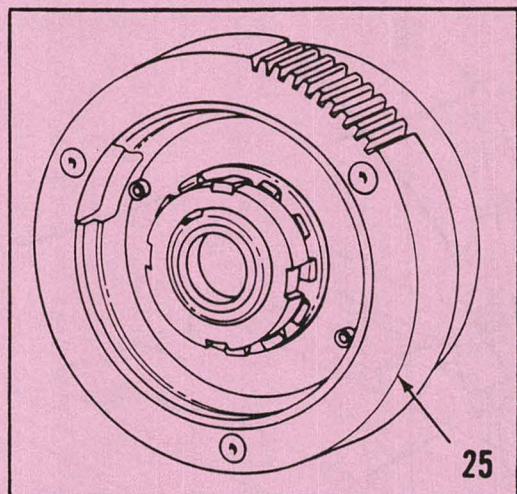
3/11

This image shows a blank, aged, cream-colored page, likely an endpaper or flyleaf of a book. The paper has a slightly textured appearance with some faint horizontal lines and minor discoloration or foxing, particularly towards the right edge. The page is set against a dark background.

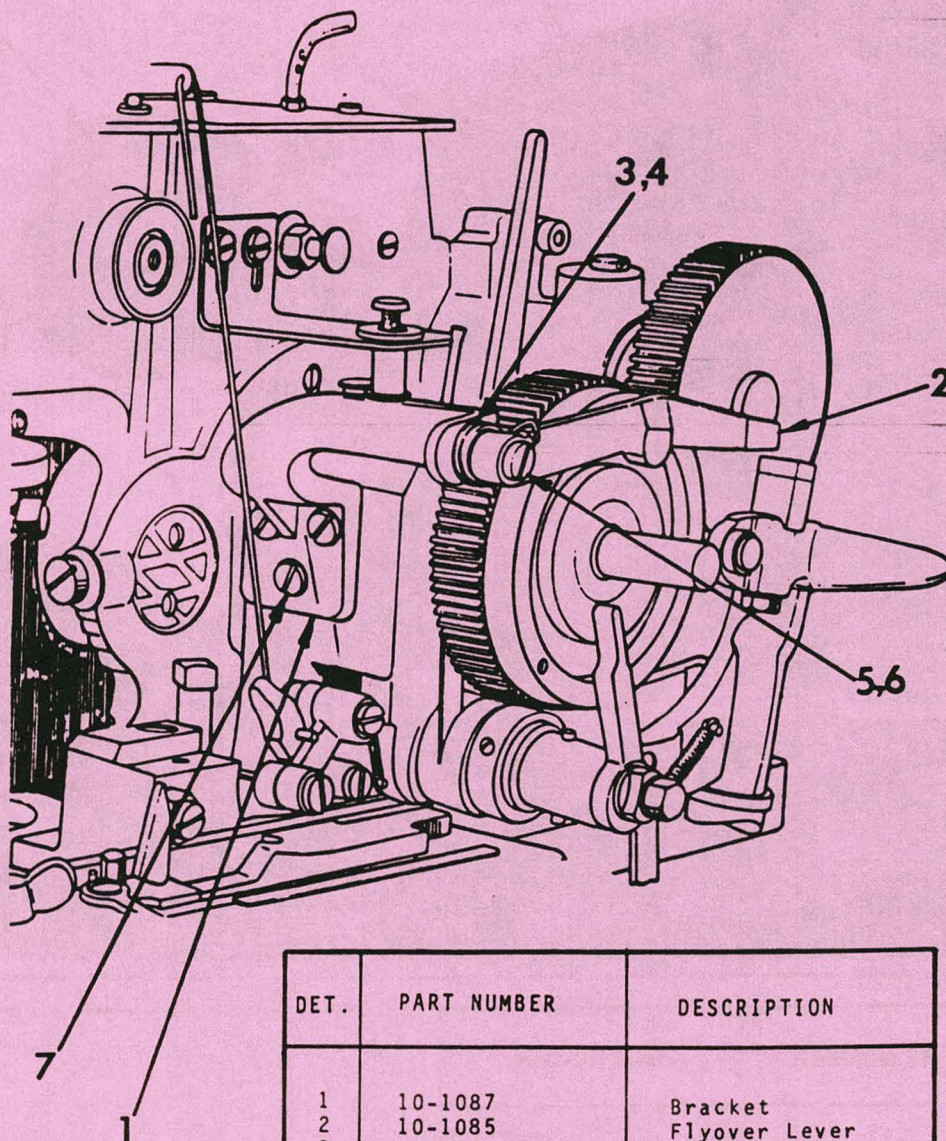


DET.	PART NUMBER	DESCRIPTION
1	01-2022	Screw
2	01-4019	Lock Washer
3	13-1231-2	Flanged Bearing
4	01-8002	Key
5	10-1093-1-000	Cam
6	01-2249	Screw
7	01-2041	Screw
8	14-1108-0-050	Follower
9	01-3042	Nut
10	01-4063	Washer
11	01-1781	Screw
12	10-1168	Link
13	01-3019	Nut

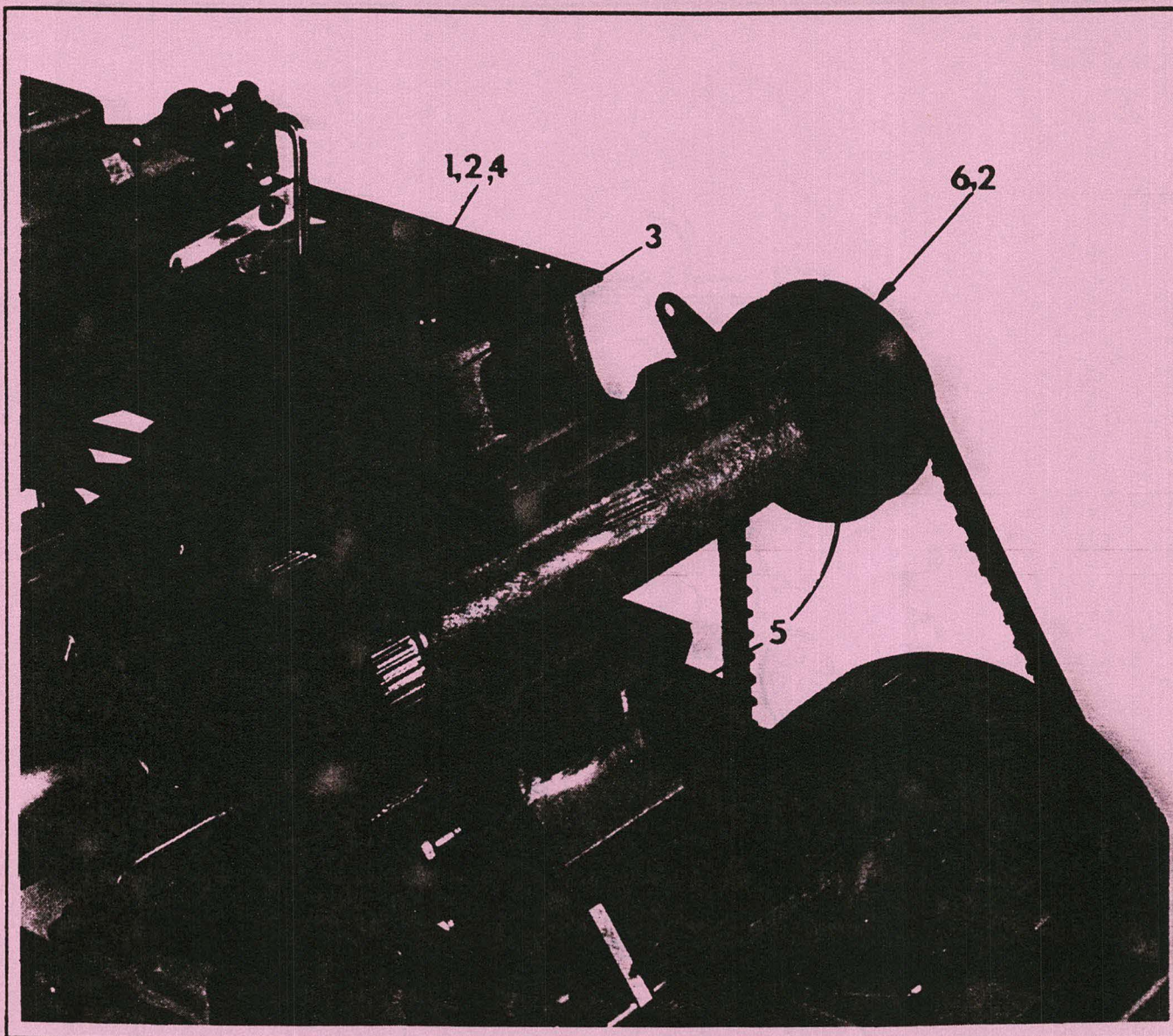
14	10-3081	Arm
15	01-1028	Stud
16	13-3079	Slide Stud
17	10-1109-3	Link
18	01-2028	Screw
19	01-7038	Collar
20	01-2344	Screw
21	01-5447	Spring
22	10-1169	Shifter
23	01-2391	Screw
24	01-3005	Nut
25	01-2146	Screw
26	10-2007-0-350	Roll



1	01-3596	Locknut
2	13-1103	Lockwasher
3	01-4788-1	Washer, Keyed
4	13-1104-1	Washer, Spring
5	01-2712	Screw (3 Used)
6	13-1232	Spur Gear
7	13-1106	Stitch Drive Hub
8	01-7667	Bearing (2 Used)
9	13-1105-1	Drive Cam
10	10-1089	Clutch Dog -
11	01-5606	Spring
12	13-1088-1-000	Stop Wheel Asm.
	13-1088-2-001	Stop Wheel
13	01-3007	Nut
14	13-1240-0-001	Hand Grip
15	13-1003	Screw
16	10-1090	Arm
17	01-2401	Screw
18	01-6600	Pin
19	01-2079	Screw
20	01-2412	Screw (2 Used)
21	13-1155	Stop -
22	10-1097-1	Key
23	05-1096	Loctite
24	13-1091-2-050	Stitch Cam & Shaft Asm.
25	13-1107	Stitch Drive Asm.

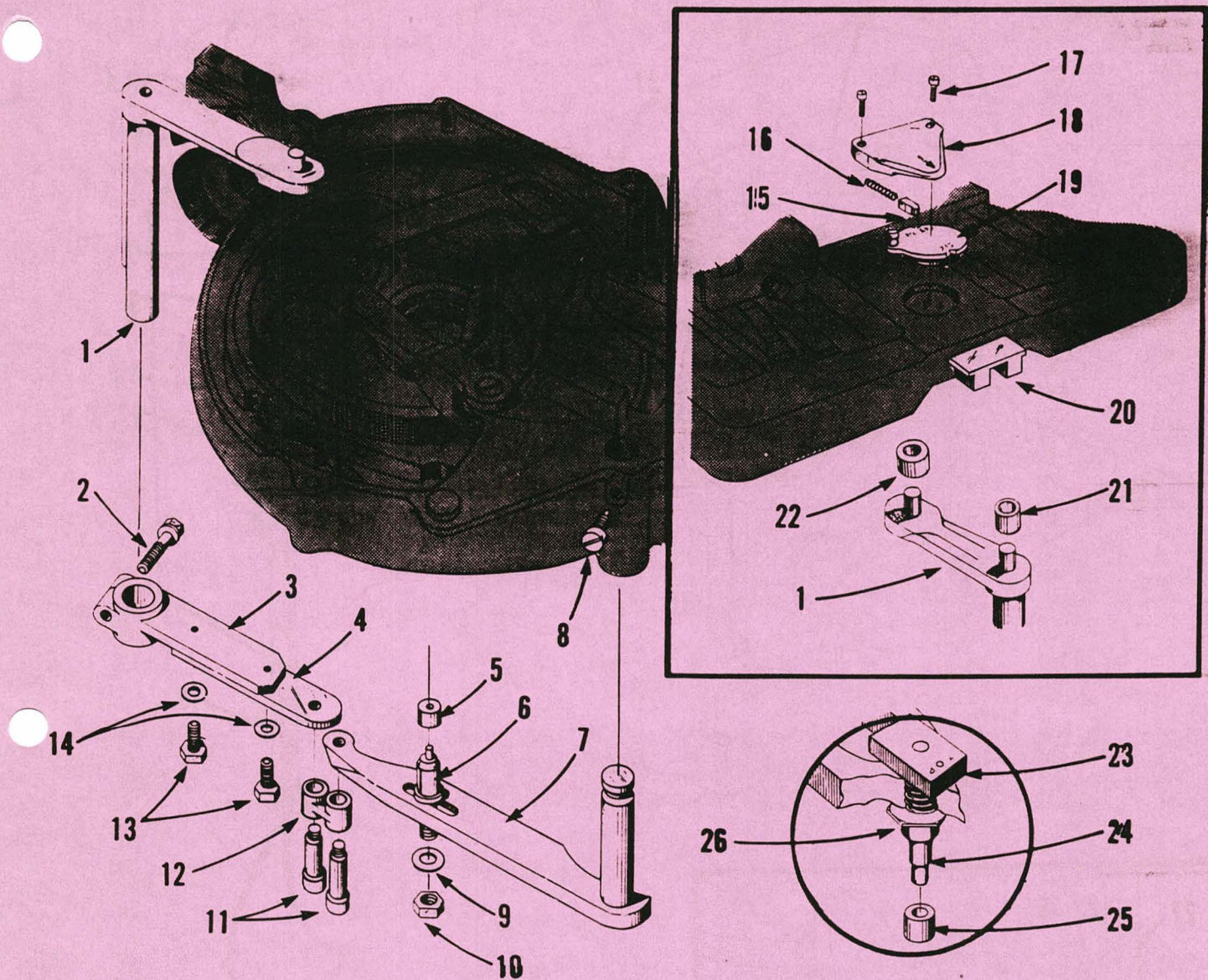


DET.	PART NUMBER	DESCRIPTION
1	10-1087	Bracket
2	10-1085	Flyover Lever
3	01-5007	Spring
4	01-4002	Washer
5	10-1086	Screw
6	01-3005	Nut
7	01-2017	Screw



DET.	PART NUMBER	DESCRIPTION
1	13-1237	Stitch Drive Shaft
2	01-8413	Key
3	13-1238	Spur Gear
4	01-2849-0-002	Set Screw
5	13-1231-2-000	Bearing
6	13-1239	Stitch Drive Pulley

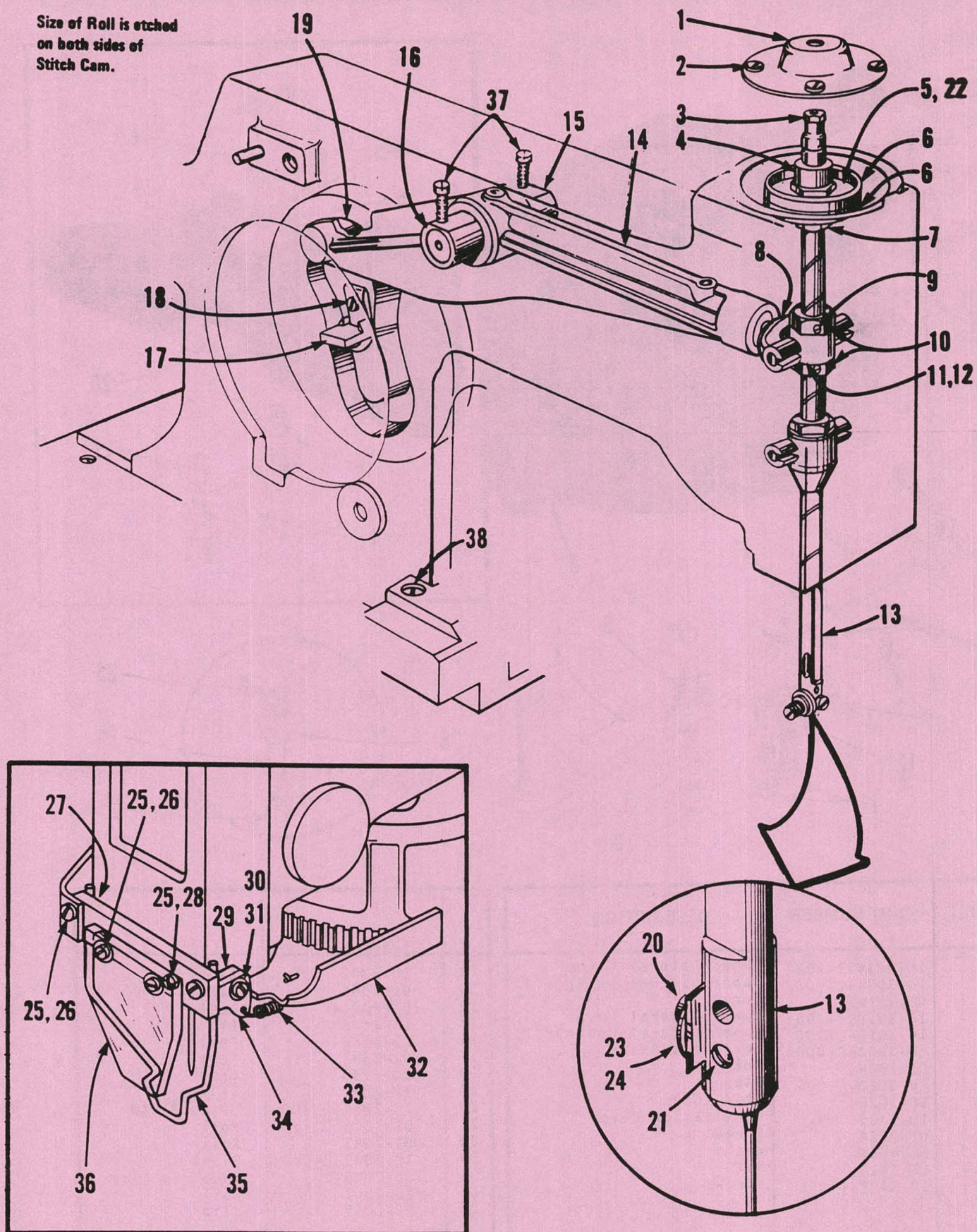
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DET.	PART NUMBER	DESCRIPTION
1	10-3034-0-258	Upper Lateral Lever
	10-3034-0-300	Upper Lateral Lever (CT)
2	01-2016	Screw
3	10-3019-1-006	Lower Lateral Lever
	10-3019-0-300	Lower Lateral Lever (CT)
4	10-3300-0-006	Lever Extension
5	01-7004	Roll
6	10-3020-0-006	Stud
	10-3020	Stud (CT)
7	10-3303	Combination Lever
8	01-2324	Screw
9	01-4005	Washer
10	01-3013	Nut
11	10-3301-1-006	Screw

12	10-3302	Link
13	01-2085	Screw
14	01-4006	Washer
15	10-2259	Plunger
16	01-5172	Spring
17	01-2392	Screw
18	10-2258	Cover
19	10-2257	Shifter
20	10-2260-0-200	Guide Plate
21	01-7023	Roll
22	01-7043	Roll
23	10-3033-0-017	Block
24	10-2006-2	Bedplate Stud
25	10-2007	Roll
26	10-2058	Clip

Size of Roll is etched
on both sides of
Stitch Cam.



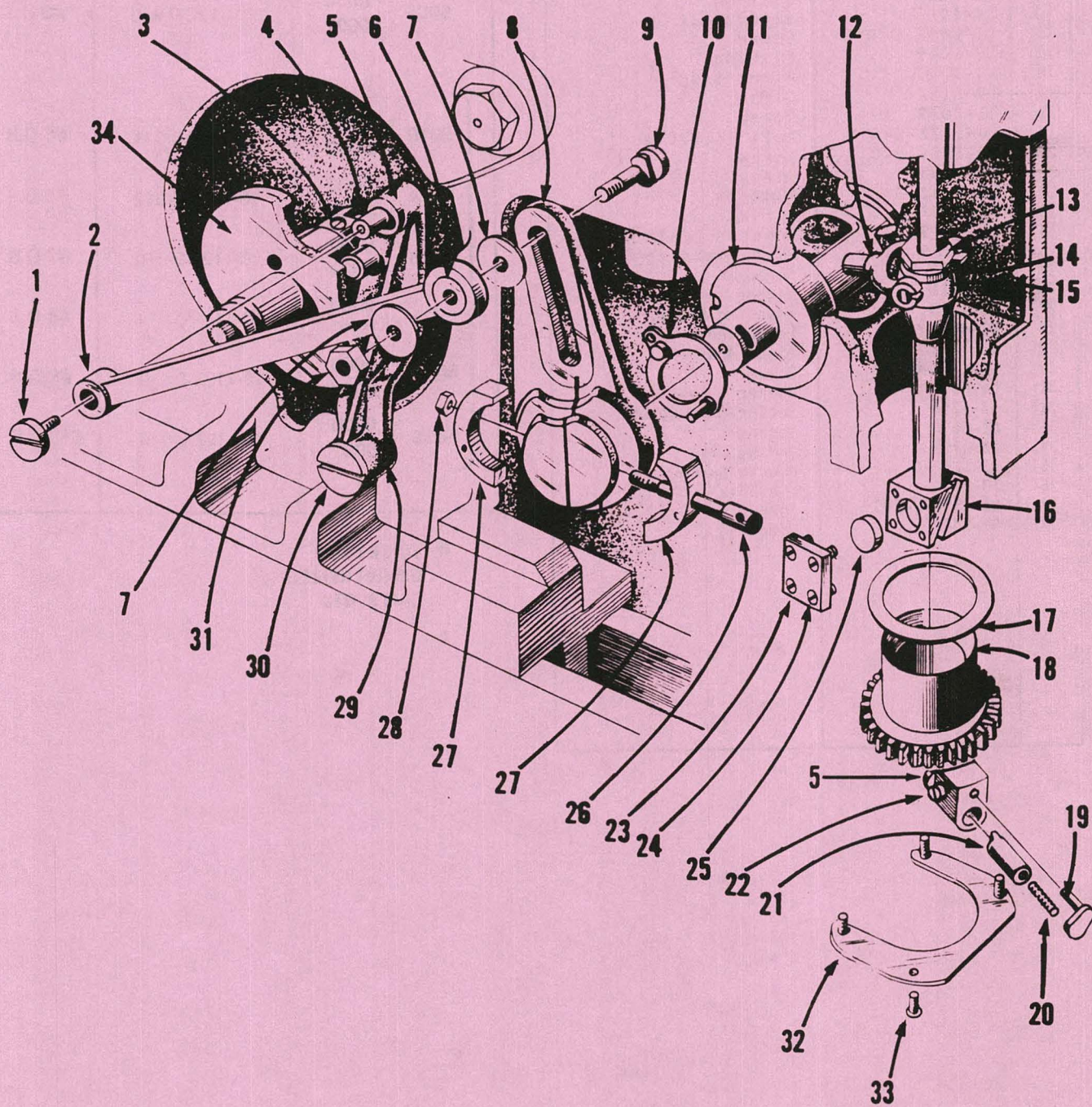
NEEDLE BAR DRIVE

3/19

DET.	PART NUMBER	DESCRIPTION
1	10-1014-1	Cap
2	01-2131	Screw
3	10-1032	Bushing
4	14-1017	Guide (with Nut)
5	14-1016-0-050	Needle Bar Guide
6	10-1015-1	Spacer
7	10-1016-2	Nut
8	14-1046-0-050	Yoke
9	01-2419	Screw
10	10-1027-1-050	Nut
11	10-1045-2	Gimbal
12	01-7015	Bushing
13	14-1028	Needle Bar
14	14-1047-0-050	Lever
15	13-1049	Bushing
16	13-1050	Pivot Stud
17	10-1152	Clip
18	01-2079	Screw
19	10-1122-0-010	Roll (See Chart)
20	10-1030-0-017	Screw
21	01-2193	Screw
22	10-1042-2	Diaphragm
23	01-5167	Spring
24	13-1029	Tension Plate
	10-1029	Disc. Tension
25	01-2261-0-002	Screw
26	01-4411	Washer
27	13-1258	Mounting Block
28	01-4571	Lockwasher
29	13-1260	Pivot Arm
30	01-1733-0-404	Screw
31	01-4537	Washer
32	13-1253	Sector Gear Cover
33	01-5636	Spring
34	13-1259	Spring Clip
35	13-1252-0-002	Needle Guard
36	13-1254	Eye Shield
37	01-2599-0-003	Screw
38	01-2343	Screw

ROLL CHART			
DIA.	ROLLER PART NO.	SIZE	
.5000 + .0000 - .0003	10-1122-0-010	STD.	
.5002 + .0000 - .0002	10-1122-0-999	#1 O.S.	
.5004 - .0000 - .0002	10-1122-0-998	#2 O.S.	
.5006 + .0000 - .0002	10-1122-0-980	#3 O.S.	
{	.5010 + .0000 - .0002	10-1122-0-011	#5 O.S.
	.5014 + .0000 - .0002	10-1122-0-012	#6 O.S.
	.5018 + .0000 - .0002	10-1122-0-013	#7 O.S.
	.5022 + .0000 - .0002	10-1122-0-014	#8 O.S.
	.5026 + .0000 - .0002	10-1122-0-015	#9 O.S.
	.5030 + .0000 - .0002	10-1122-0-016	#10 O.S.

* TO BE USED
ON OVERSIZED
CAM SLOTS

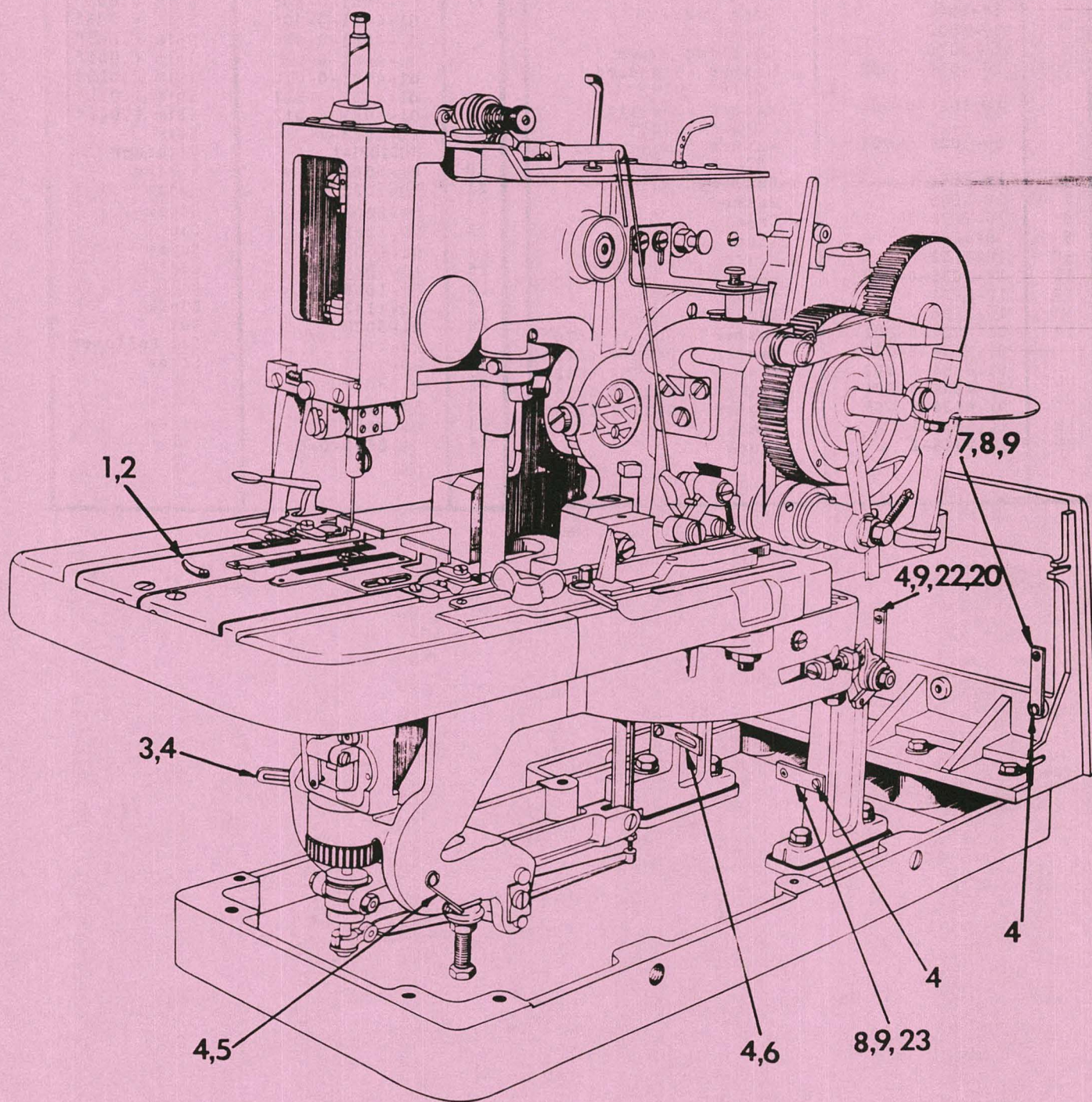


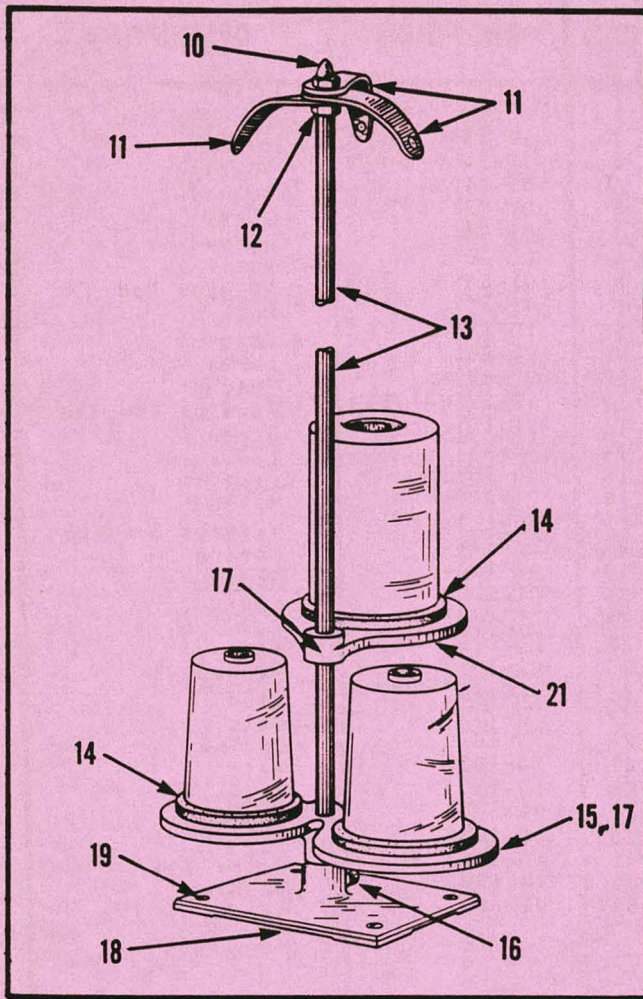
NEEDLE BAR VIBRATOR

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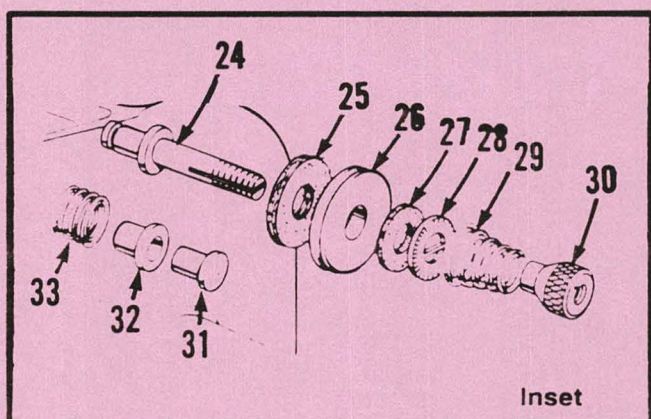
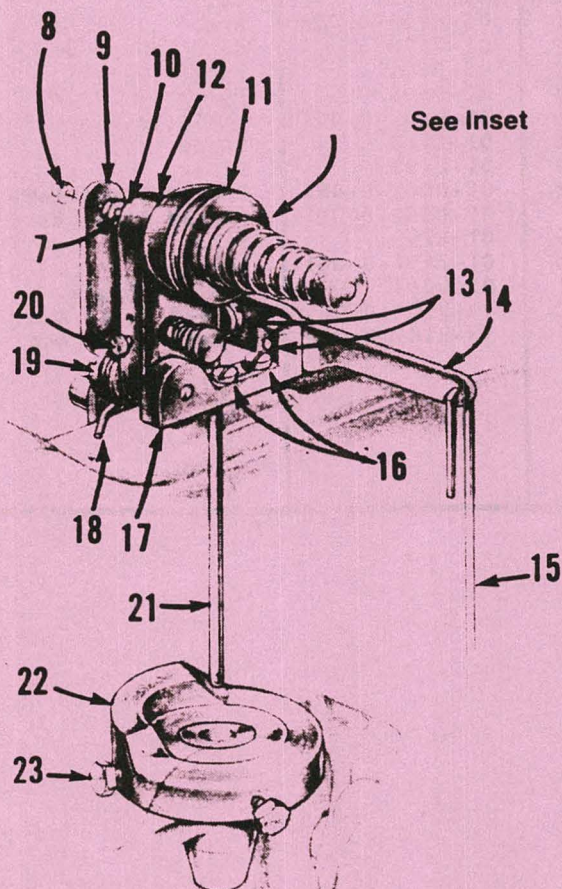
DET.	PART NUMBER	DESCRIPTION
1	01-2011	Screw
2	14-1041	Drag Link
3	10-1031	Screw
4	10-1076	Coupling Block
5	10-1024-0-002	Washer (Standard) .0779"-.0782"
	10-1024-0-001	Washer (Oversize) .0782"-.0785"
	10-1024-0-003	Washer (Undersize) .0776"-.0779"
6	10-1040	Bushing
7	10-1039	Washer
8	10-1038-2	Crank
9	10-1037	Stud
10	10-1153	Plate
11	14-1035-0-050	Barrel
12	10-1034	Yoke
13	10-1156	Nut
14	01-4034-0-001	Washer (.0623"-.0626")
	01-4034-0-002	Washer (.0626"-.0629")
	01-4034-0-003	Washer (.0629"-.0632")
	01-4034-0-004	Washer (.0632"-.0635")
	01-4034-0-005	Washer (.0635"-.0638")
15	10-1033-1	Gimbal
16	10-1026-2	Block

DET.	PART NUMBER	DESCRIPTION
17	01-4081-0-005	Shim (.005")
	01-4081-0-006	Shim (.006")
	01-4081-0-008	Shim (.008")
	01-4081-0-009	Shim (.009")
	01-4081-0-010	Shim (.010")
	01-4081-0-011	Shim (.011")
	01-4081-0-012	Shim (.012")
18	10-1023-3	Gear
19	10-1021-1	Retainer
20	01-5003	Spring
21	10-1022	Guide
22	01-2008	Screw
23	10-1065	Cap
24	01-2100	Screw
25	14-1025	Button
26	13-1036	Bolt
27	10-1147	Block
28	01-3028	Nut
29	14-1043	Cam Follower
30	10-1044	Screw
31	01-3012	Nut
32	10-1150	Plate
33	01-2075	Screw
34	05-0531-0-001	Cam

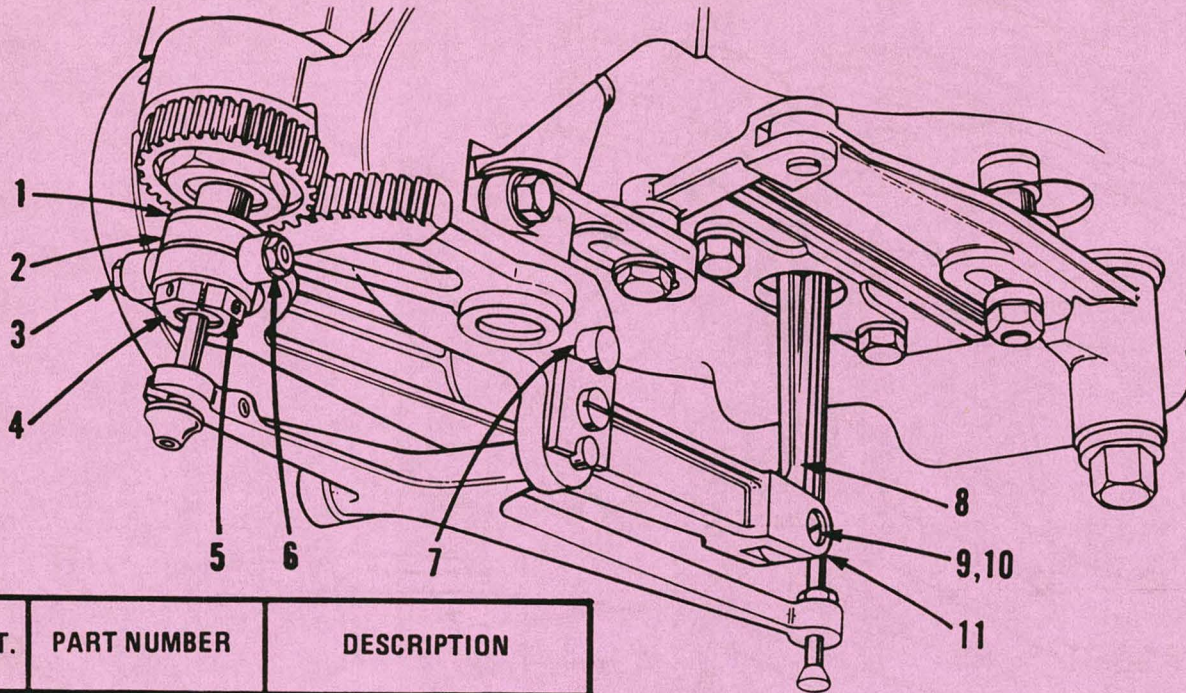




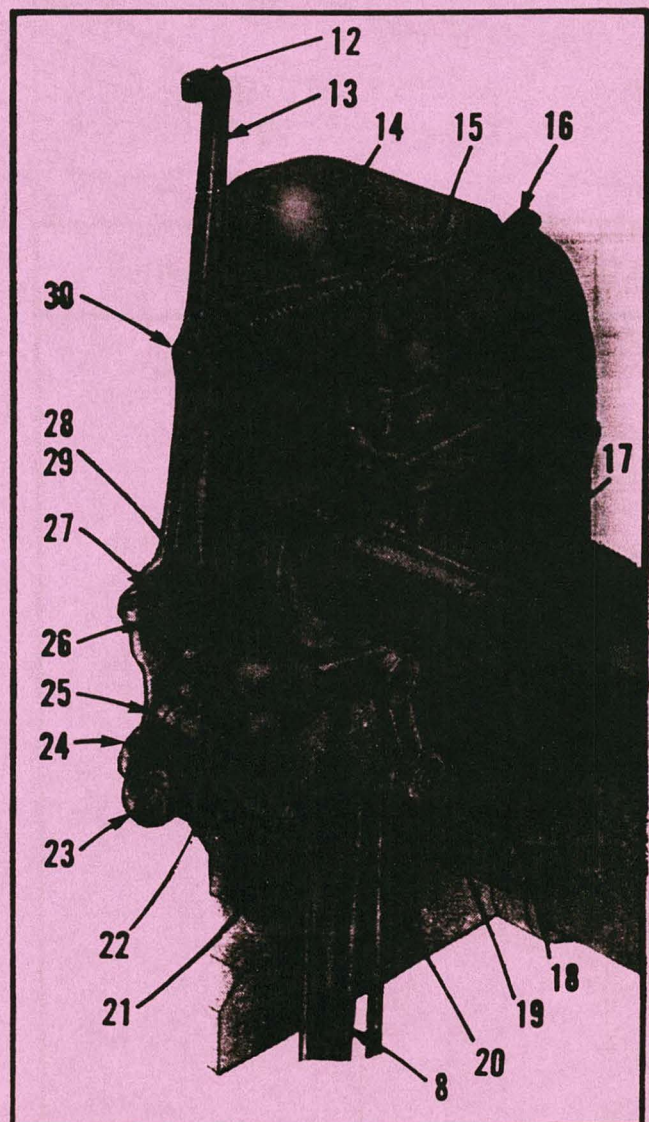
DET.	PART NUMBER	DESCRIPTION
1	01-2053	Screw
2	10-2054	Clip
3	10-3607-1	Cord Guide
4	01-2247-0-002	Screw
5	10-4550	Guide
6	13-3127	Cord Guide
7	13-3109-2-000	Thread Guide Asm.
8	01-7447-1	Guide
9	01-6551	Ring Retainer
10	01-3052	Nut
11	05-0004-0-001	Arm
12	01-3026	Nut
13	05-0005	Post
14	05-0006	Felt
15	05-0002-0-001	Shelf, Double
16	01-2115	Screw
17	01-2492	Screw
18	05-0001-0-055	Thread Stand Asm.
19	05-0001-0-001	Thread Stand Base
20	01-2190	Screw
21	01-7447-0-001	Guide
22	05-0003	Shelf, Single
23	13-3109-0-003	Thread Guide Asm.
	13-3109-0-002	Thread Guide Asm.

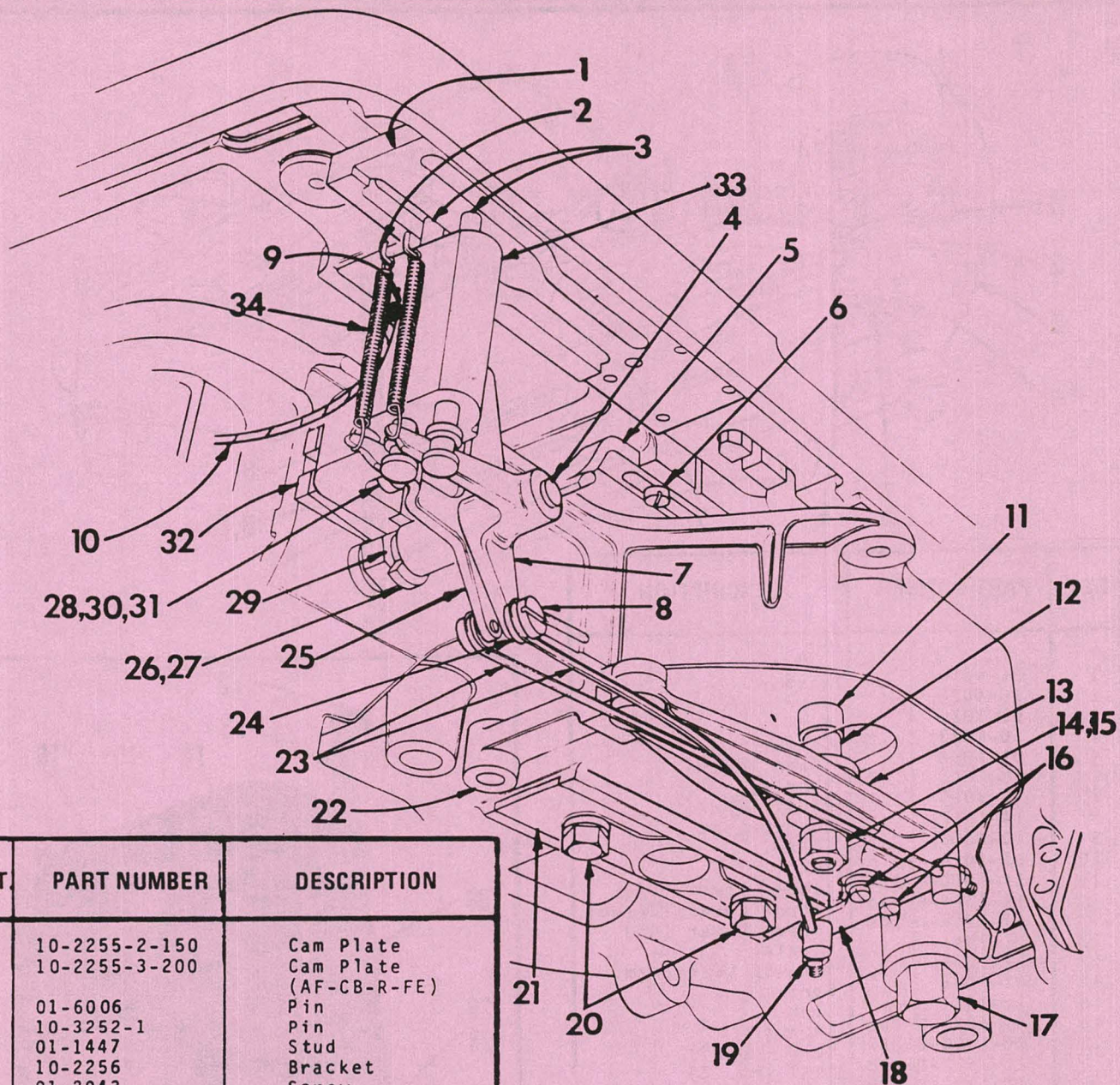


DET.	PART NUMBER	DESCRIPTION
1	14-1230	Plate
2	01-7626-0-001	Bushing
3	05-1120	Adhesive
4	01-2247	Screw
5	05-0043	Guide
6	01-3001	Nut
7	01-6499	Release Rod
8	01-3025	Nut
9	10-1178	Lever
10	01-2509	Screw
11	01-4074	Spacer
12	10-1158-1-050	Tension Arm Asm.
13	01-1112	Screw
14	10-1177	Lever
15	10-1083	Link
16	01-2039	Screw
17	10-1159-1	Tension Bracket
18	01-5163	Spring
19	01-1114	Screw
20	01-2001	Screw
21	01-6334	Rod
22	10-1160	Cam
23	01-2362	Screw
24	01-1113	Stud
25	10-1077	Felt
26	10-1078-1	Roller
27	10-1004	Felt
28	10-1003	Washer
29	01-5603	Spring
30	10-4030	Nut
31	10-1008	Guide
32	10-1009	Bushing
33	01-5002	Spring



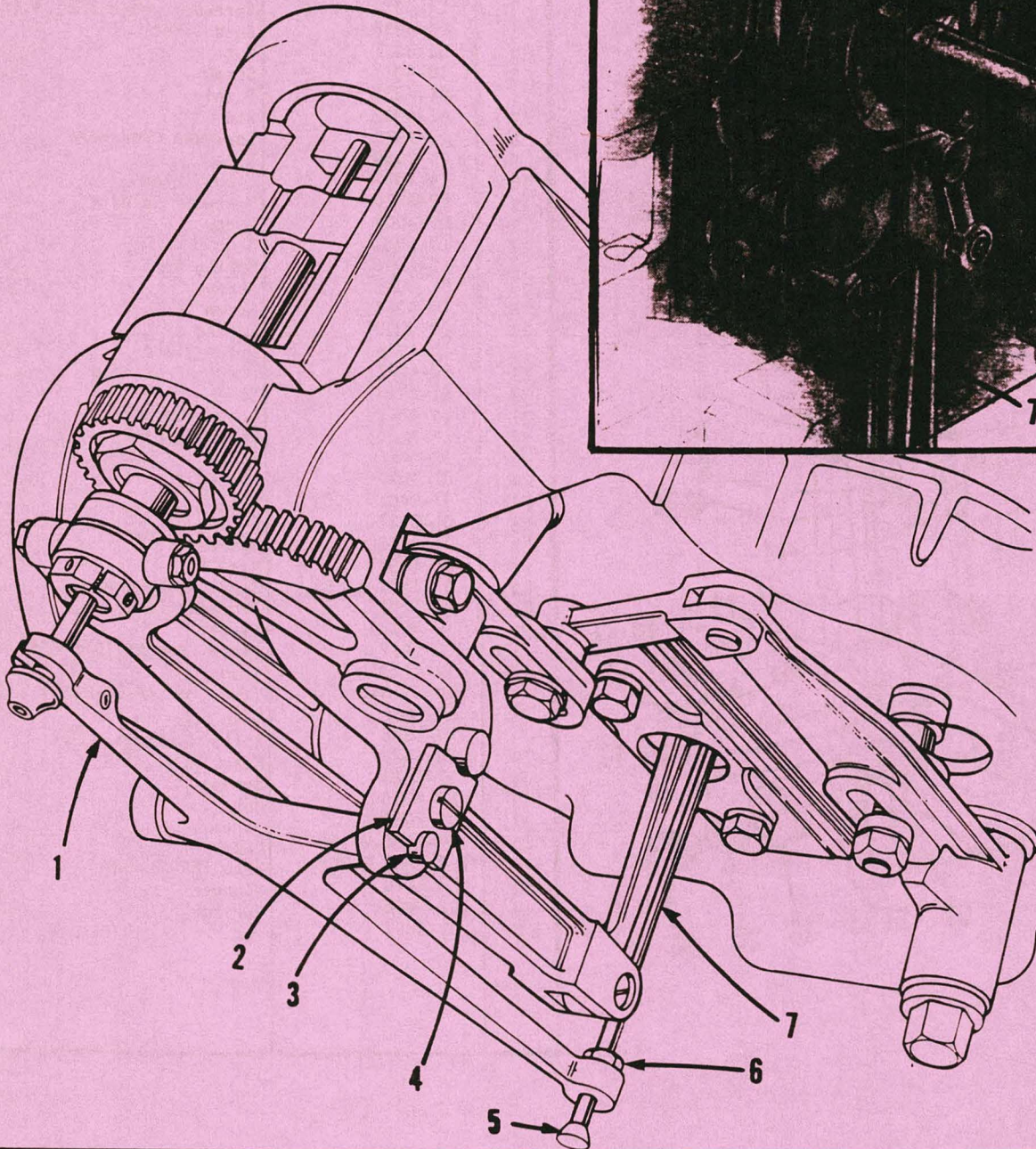
DET.	PART NUMBER	DESCRIPTION
1	01-4010	Washer
2	10-4024	Bearing Ring
3	01-3020	Nut
4	10-4023	Collar
5	01-2007	Clamp Screw
6	10-3007	Bearing
7	10-3005	Pivot Pin
8	14-1067	Looper Link
9	10-3008	Screw
10	01-3010	Nut
11	14-3006-0-150	Looper Lever (CA)
	14-3006-0-165	Looper Lever (CA/WB)
	14-3006-0-200	Looper Lever (CB)
12	01-7041	Bushing
13	14-1236	Take-Up Lever Asm.
14	01-5005	Spring
15	10-1057	Link
16	01-6831-0-002	Anchor
17	10-1122-0-997	Roll (.010")
	10-1122-0-998	Roll (No. 2)
	10-1122-0-999	Roll (No. 1)
18	14-1064	Cam Follower
19	10-1066-1	Pivot Screw
20	10-1063	Timing Screw
21	10-1055	Pivot Screw
22	10-1062	Jam Plug
23	01-2063	Screw
24	10-1054	Pivot Bushing
25	01-2012	Screw
26	01-4751	Spacers
27	01-7630-0-001	Ball Bearing
28	13-1052-0-001	Stud
29	10-1053	Cotter Pin
30	10-1056	Clip





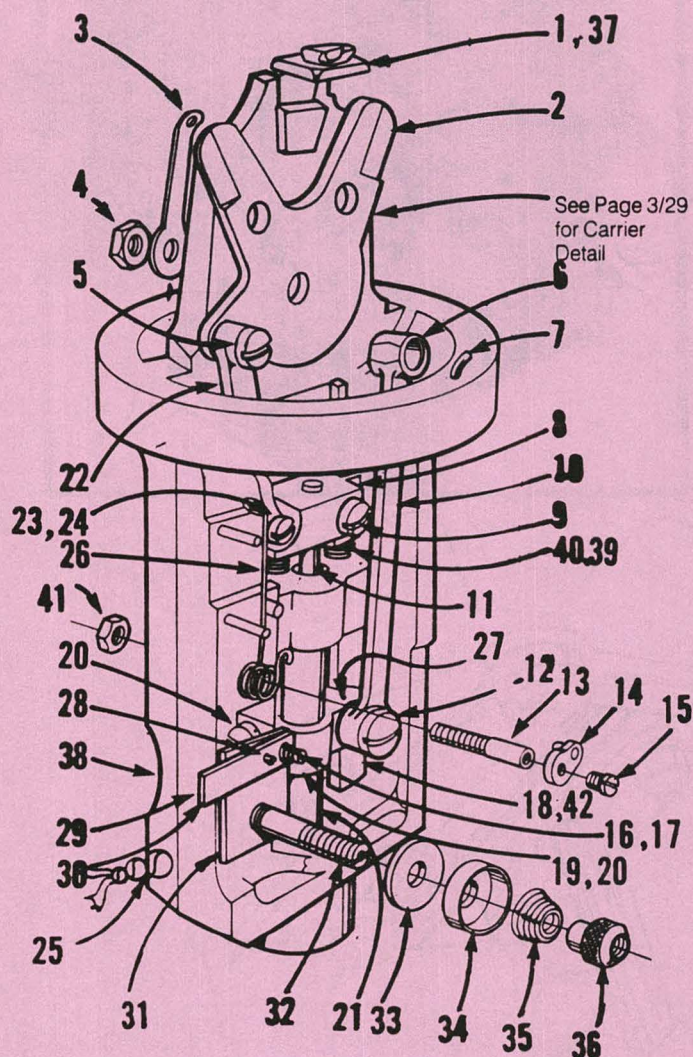
DET.	PART NUMBER	DESCRIPTION
1	10-2255-2-150 10-2255-3-200	Cam Plate Cam Plate (AF-CB-R-FE)
2	01-6006	Pin
3	10-3252-1	Pin
4	01-1447	Stud
5	10-2256	Bracket
6	01-2043	Screw
7	10-3254	Pin Actuator
8	01-1432	Screw
9	07-0400-0-003	Wick
10	07-0401-0-007	Wick
11	10-3018	Roll
12	10-3017	Stud
13	10-3015-0-250	Sector Lever
14	01-3013	Nut
15	01-4005	Washer
16	01-2079	Screw
17	10-3016	Stud
18	10-3258	Bracket
19	01-3016	Nut
20	01-2031	Screw

21	10-3027	Plate
22	10-3012	Link
23	10-3259-1	Wire Rod
24	01-4472	Washer
25	10-3253	Pin Actuator
26	10-3262-0-250	Lever
27	01-2006	Screw
28	01-2088	Screw
29	10-3257	Spacer Washer
30	01-4046	Lockwasher
31	01-6031	Taper Pin
32	10-3250-1	Spacer Wedge
33	14-3251	Bracket
34	01-5054	Spring

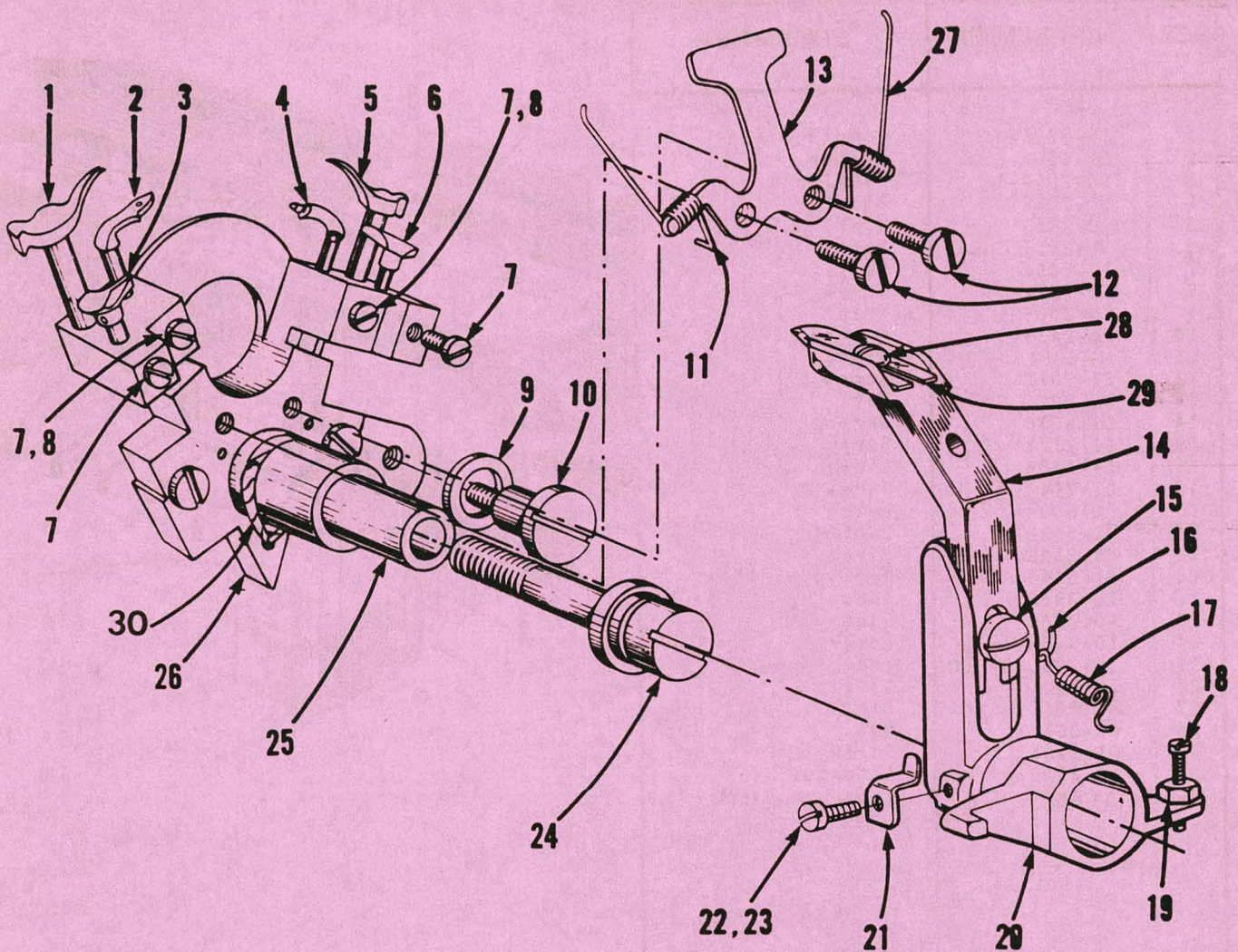


DET.	PART NUMBER	DESCRIPTION
1	14-3004	Spreader Lever
2	10-3002	Locking Plate
3	10-3003	Pivot Pin
4	01-2041	Screw
5	10-1061-1	Ball Tip
6	01-3025	Nut

7	10-1060-2	Spreader Link
8	14-1058	Spreader Cam Follower
9	10-1059	Pivot Pin
10	01-3005	Nut
11	13-1091-2-050	Stitch Cam Asm.



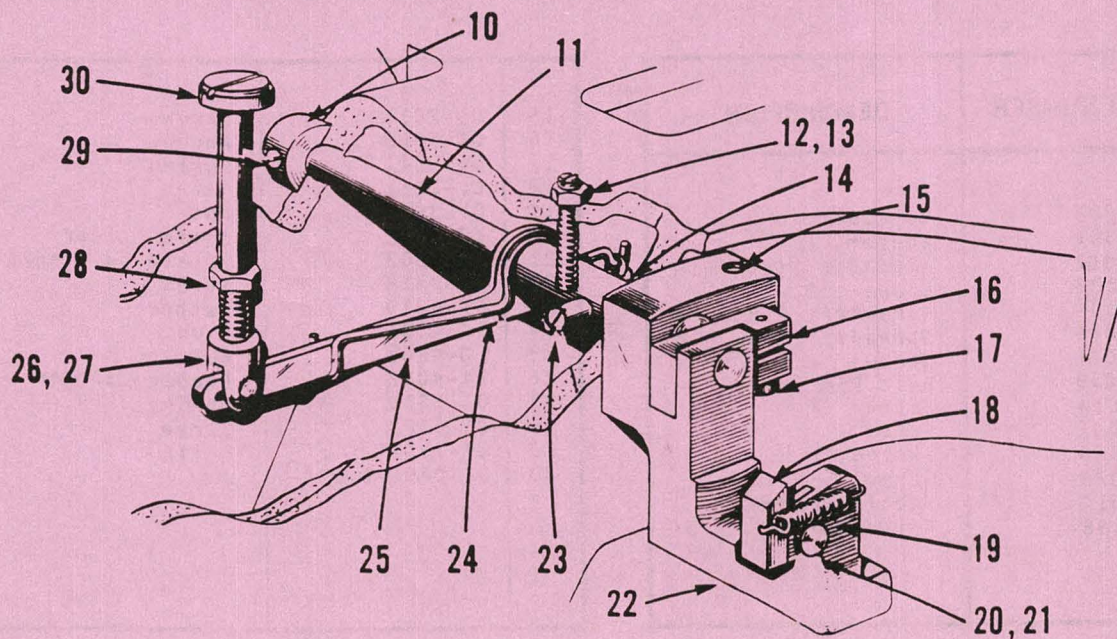
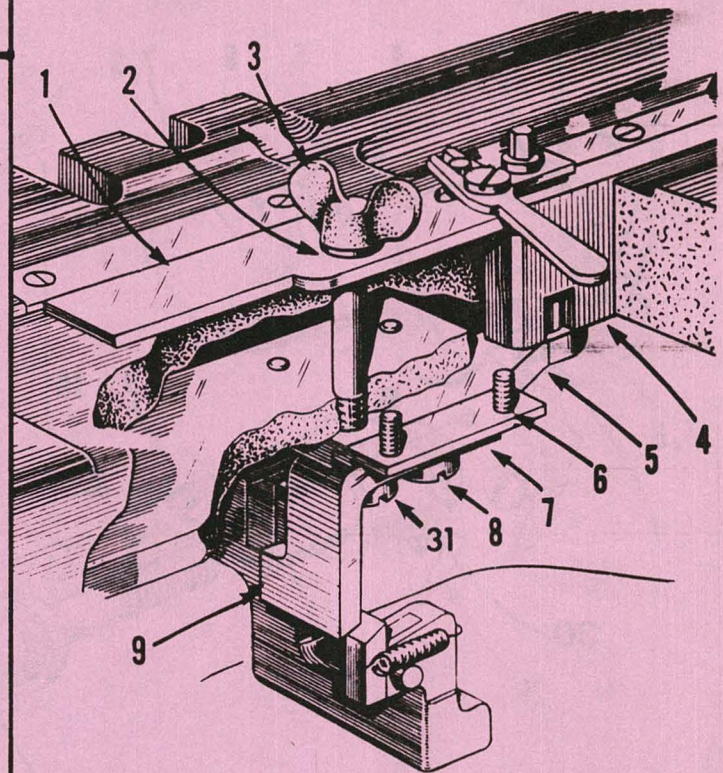
DET.	PART NUMBER	DESCRIPTION
1	10-4012-0-001 10-4012-0-004	Throat Plate (AF-CA-R-RE) Throat Plate (AF-CB/CA-R-RE) Throat Plate (AF-CB-R-FE)
2	14-4011-0-150 14-4011-0-200	Spreader Wedge (CA) Spreader Wedge (CB) & (CB/CA)
3	10-4035	Cord Guide
4	01-3021	Nut
5	10-4017	Screw
6	01-7022	Bushing
7	01-6002	Pin
8	10-4018	Spreader Crosshead
9	01-2059	Screw
10	14-4013	Looper Link
11	10-4020	Spreader Spindle
12	01-1006	Screw
13	10-4037	Stud
14	10-4036	Spring Arm
15	01-2081	Screw
16	10-4034	Screw
17	01-5004	Spring
18	10-4026	Guide Plate
19	10-4021	Looper Crosshead
20	01-2024	Screw
21	14-4022	Looper Spindle
22	14-4015	Spreader Link
23	10-4016	Screw
24	01-4012	Washer
25	07-0401-0-009	Wick
26	01-5027	Spring
27	01-4013	Washer
28	01-6003	Pin
29	10-4033-0-050	Tension Plate Asm.
30	10-4028	Tension Plate
31	10-4033	Plate
32	10-1077 10-4029	Plate (For AF-CB-R-FE) Stud
33	10-4218-0-200 10-4032	Stud (For AF-CB-R-FE) Thin Disc
34	10-1078	Roller Tension (CB)
35	10-4031	Heavy Disc
36	01-5028	Spring
37	10-4030	Nut
38	01-2056 14-4001-0-150 14-4001-0-200	Screw Race Race (AF-CB-R-FE)
39	10-4019	Plunger
40	01-5026	Spring
41	01-3001	Nut

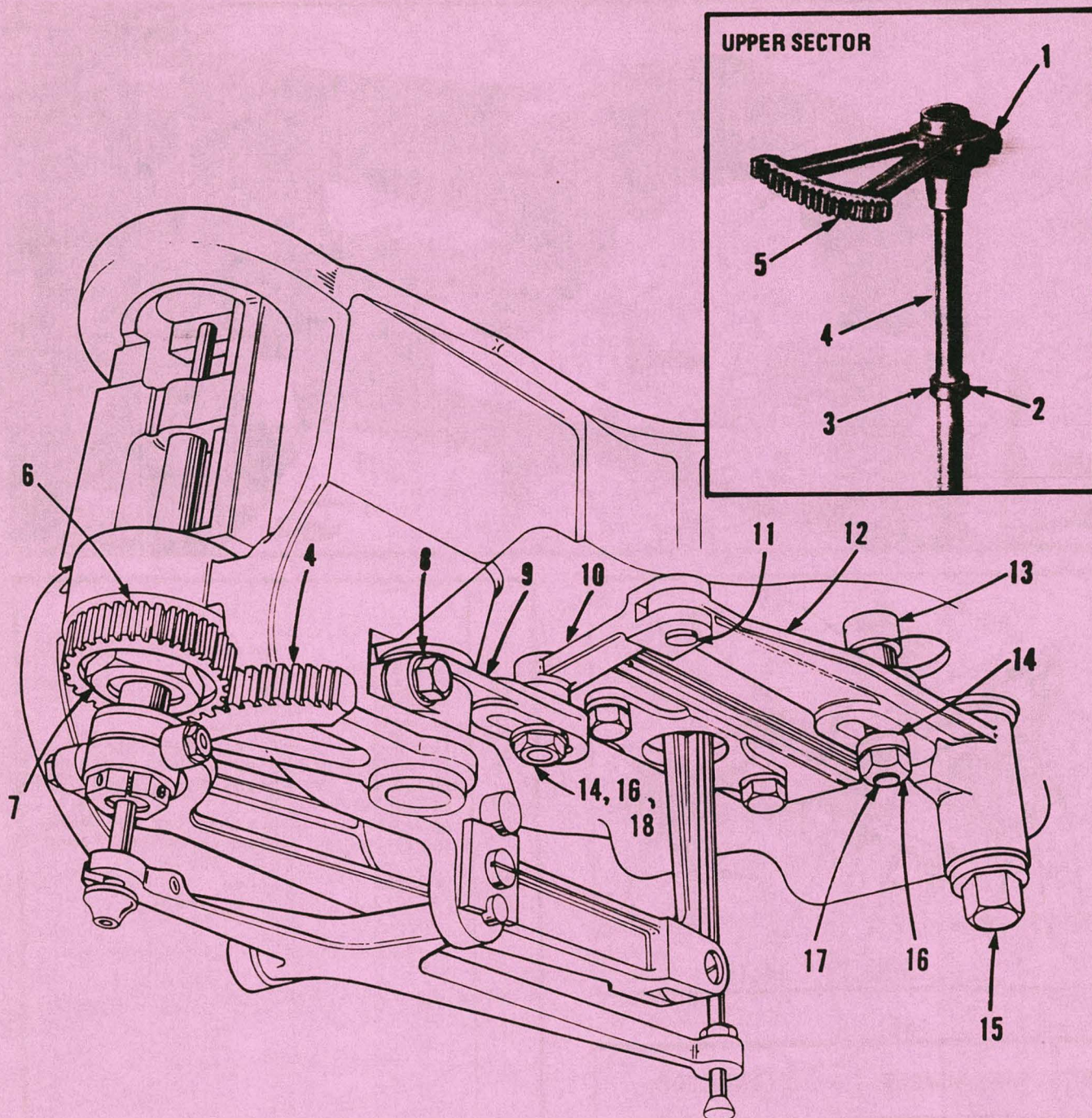


DET.	PART NUMBER	DESCRIPTION
1	14-1803	Spreader, L.H.
2	14-1801	Looper, L.H.
3	10-4007	Spreader Stop, L.H.
4	14-1802	Looper, R.H.
5	14-1804	Spreader, R.H.
6	10-4006	Spreader Stop, R.H.
7	01-2001	Screw
8	10-4039	Felt Pad
9	01-4013	Washer
10	01-1006	Screw
11	01-5620	Spring, L.H.
12	01-2073	Screw
13	10-4010-2	Needle Guard
14	10-1198-1	Knife Holder

15	01-2081	Screw
16	01-6002	Anchor
17	01-5041	Spring
18	01-2361	Screw
19	01-3025	Nut
20	10-4202	Knife Holder
21	10-4203	Retaining Ring
22	01-2318	Screw
23	01-4015	Washer
24	14-4201	Stud
25	10-4003	Bushing
26	14-4002	Looper Carrier
27	01-5619	Spring, R.H.
28	01-2667	Screw
29	14-1197-0	Knife
30	07-0401-0-004	Wick

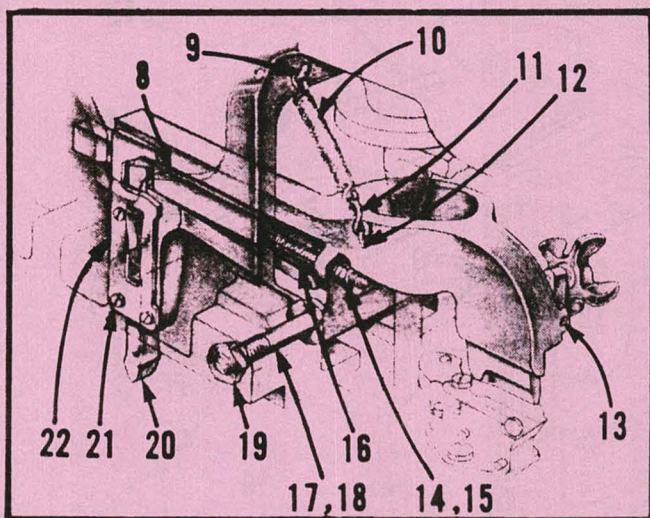
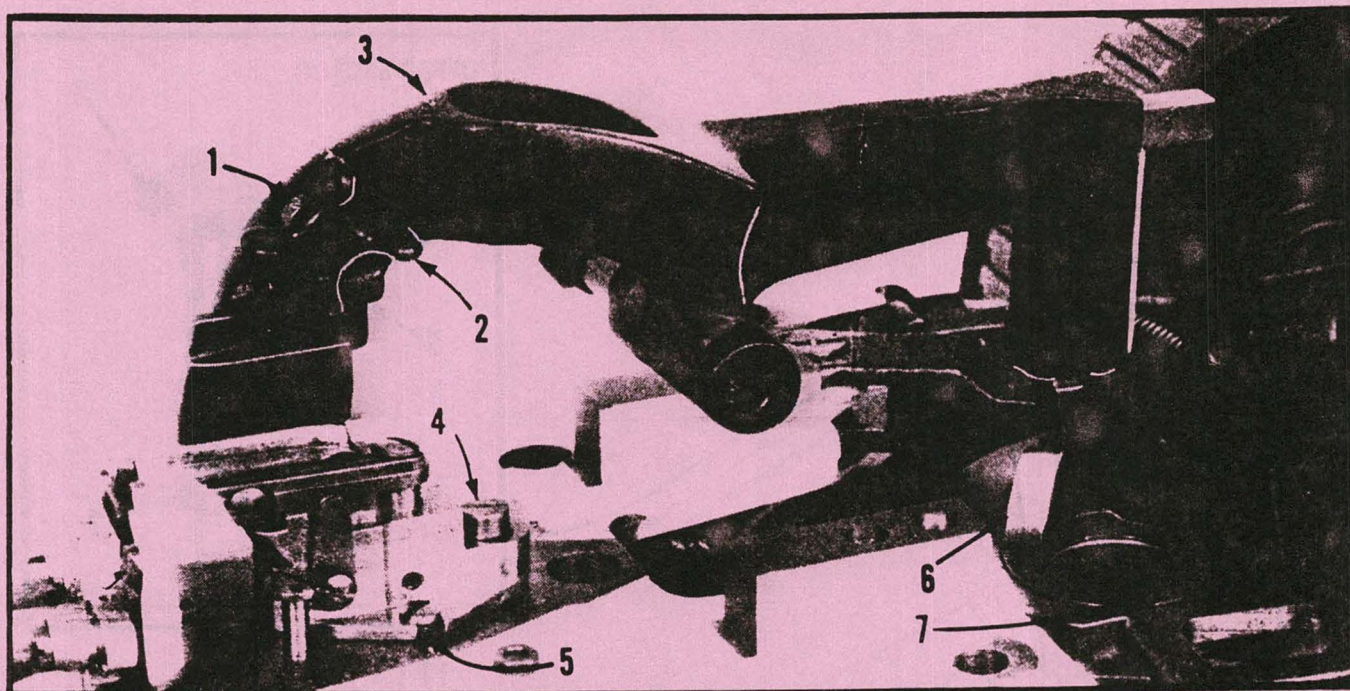
DET.	PART NUMBER	DESCRIPTION
1	10-2251-1	Length Plate
2	01-4006	Washer
3	10-2254-1	Wing Bolt
4	10-2262	Block
5	10-2263	Link
6	01-2131	Screw
7	10-2264	Rail
8	01-2175	Screw
9	10-2069-1	Trip
10	01-7435-1	Collar
11	14-5019	Shaft
12	01-2077	Screw
13	01-3005	Nut
14	01-5038	Spring
15	01-2171	Screw
16	14-3088	Clamp
17	01-2144	Screw
18	10-3089-2	Latch
19	01-5433	Spring
20	01-6528	Pivot
21	01-6368	Retaining Ring
22	14-3087	Actuator
23	10-3203	Stop
24	10-3086	Lever
25	10-3085-0-050	Lever Asm.
26	10-3205	Clevis
27	01-6015	Pin
28	01-3016	Nut
29	01-2194	Screw
30	10-3206	Actuator
31	14-5032	Spacer Trip (AT)





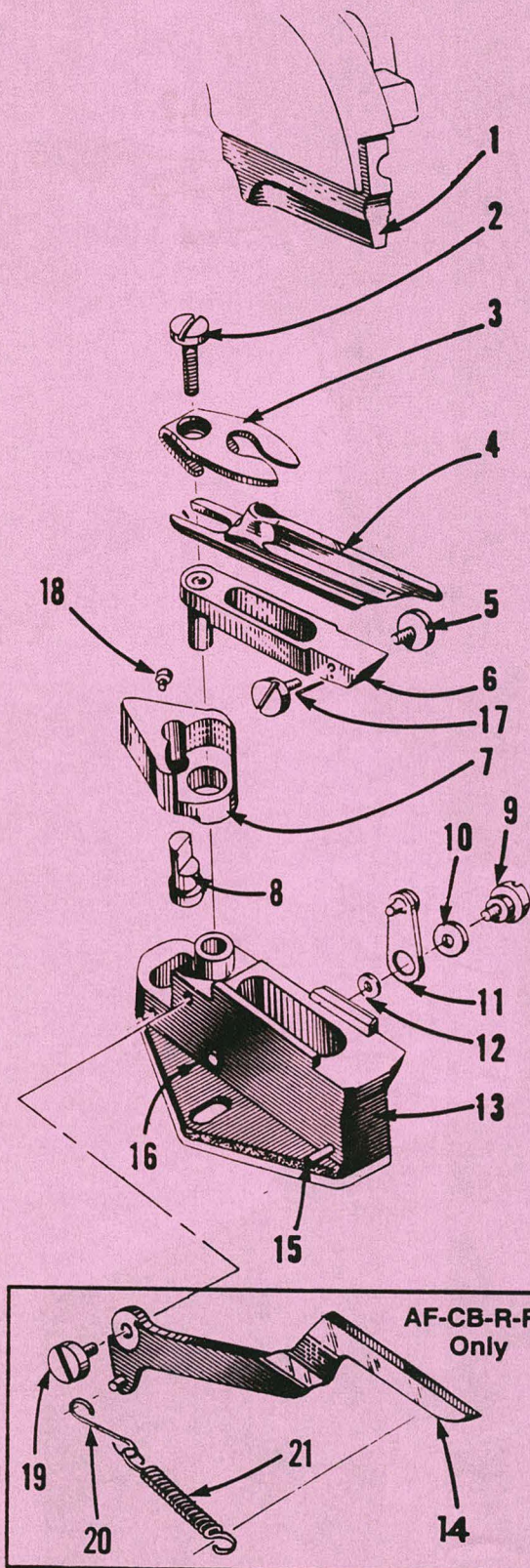
DET.	PART NUMBER	DESCRIPTION
1	01-2014	Screw
2	10-3010	Collar
3	01-2028	Screw
4	10-3009	Lower Sector & Shaft
5	10-1075-1	Upper Sector
6	10-4025	Gear
7	01-3018	Nut
8	01-2016	Screw

9	10-3011	Lever
10	10-3012	Link
11	10-3026	Stud
12	10-3015-0-250	Sector Lever
13	10-3018	Roll
14	01-4005	Washer
15	10-3016	Stud
16	01-3013	Nut
17	10-3017	Stud
18	10-3013	Stud



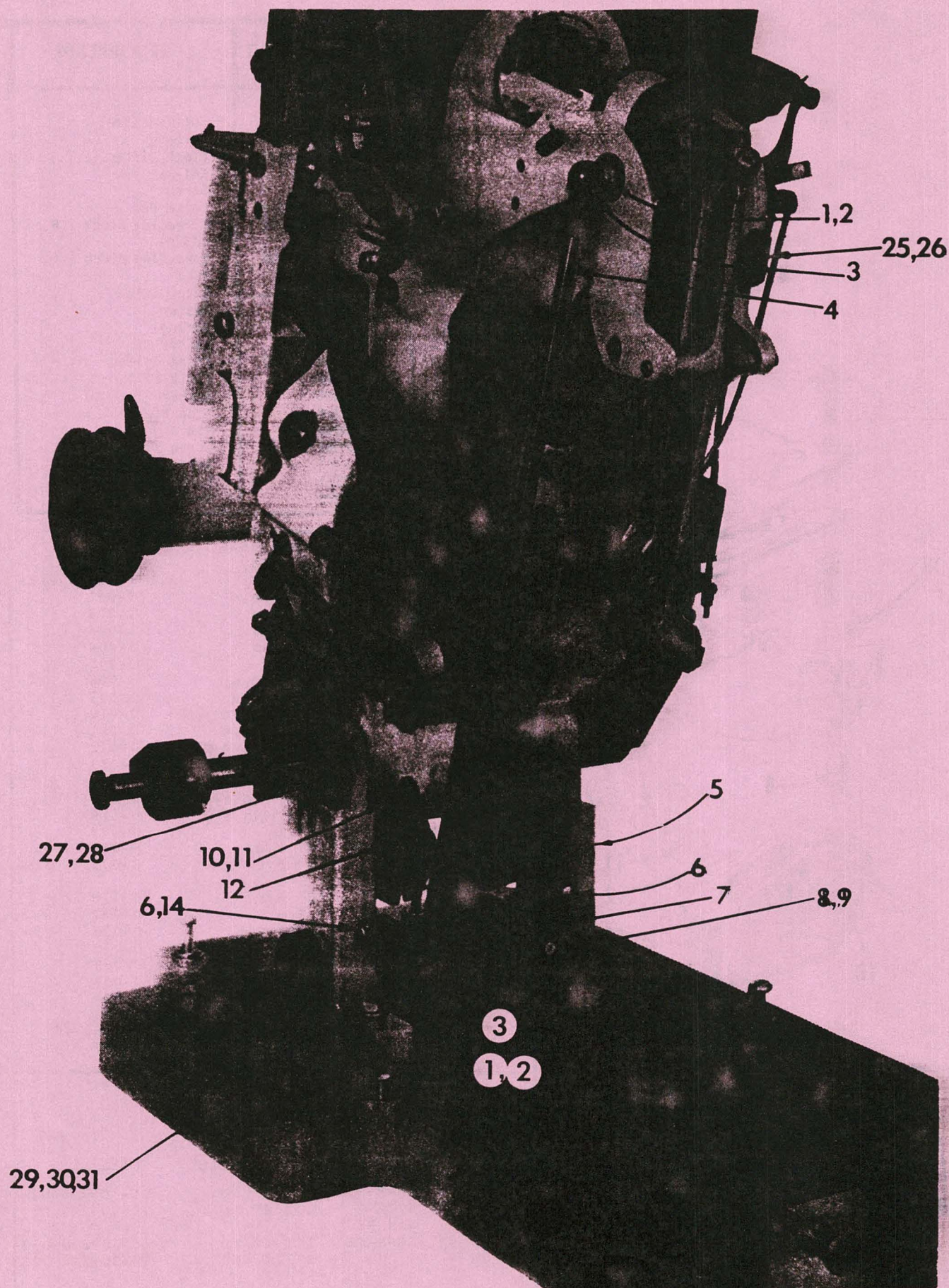
12	01-6006	Anchor
13	01-6837	Pin
14	01-3001	Nut
15	01-4001	Washer
16	01-5061	Spring
17	10-1074	Pivot Stud, Left
18	10-1074-0-250	Pivot Stud, Right (AF)
	10-1074	Pivot Stud, Right (CT)
19	01-3006	Nut
20	10-1071-2	Cutting Cam Follower
	10-1071-1-023	Cutting Cam Follower (For CB/CA)
21	01-2013	Screw
22	10-1073	Cover Plate

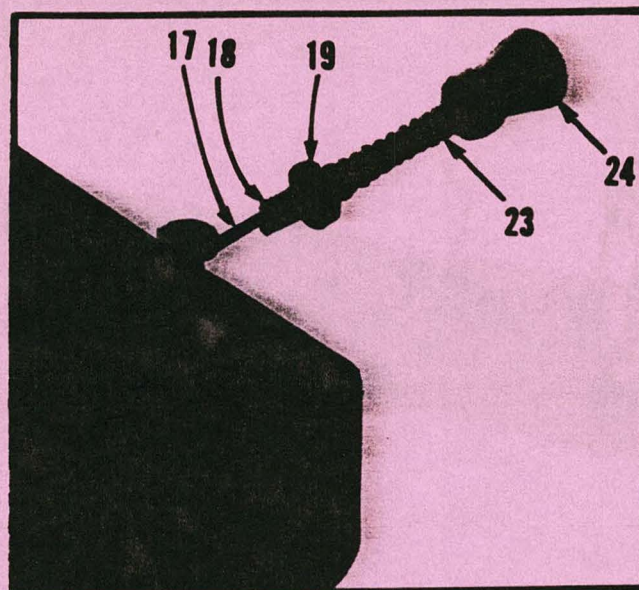
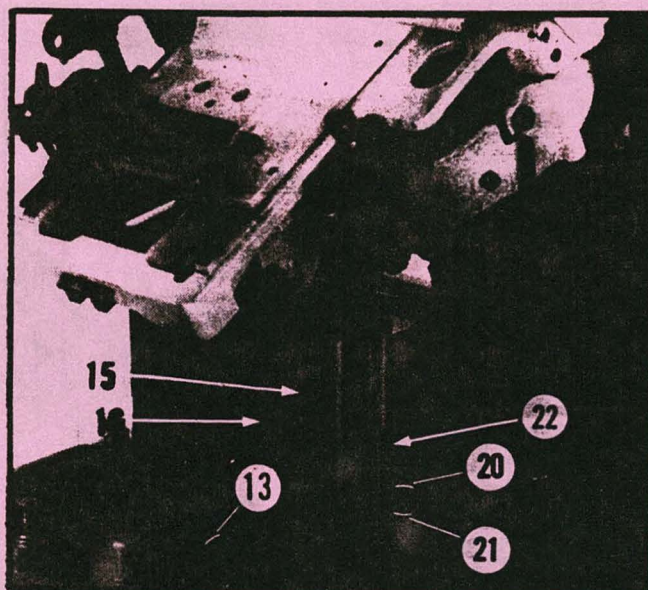
DET.	PART NUMBER	DESCRIPTION
1	10-1163	Clamp (CA)
2	01-1023	Screw
3	10-1068-1-050	Cutting Lever Asm.
	10-1154-0-050	Cutting Lever Asm. AF-CB
4	01-2038	Screw
5	01-2039	Screw
6	10-3062-1	Cutting Cam
7	10-3063-1	Pin
8	10-1072	Pressure Bar
9	01-6560	Anchor
10	01-5006	Spring
11	10-1146	Link



DET.	PART NUMBER	DESCRIPTION
1	See Chart	Cutting Steel
2	01-2039	Screw
3	10-3074-0-011	Cloth Lifter (L.T.)
4	See Chart	Knives
5	01-2102	Screw
6	10-3071-1-250	Knife Pad
7	10-3067-4-254	Spreading Block (CB, CB/CA)
	10-3067-3-253	Spreading Block (CA)
8	10-3218	Stud
9	01-1130	Screw (CA)
10	01-4003	Washer
11	01-5173	Spring
12	01-4029	Washer
13	10-3070-0-250	Knife Holder
14	10-3260-1	Cloth Lifter
15	01-6005	Anchor Pin
16	01-6328	Stop Pin
17	01-6036	Pin
18	01-2001	Screw
19	01-1131	Screw (AF-CB-R-FE)
20	10-3261	Link (AF-CB-R-FE)
21	01-5029	Spring (AF-CB-R-FE)

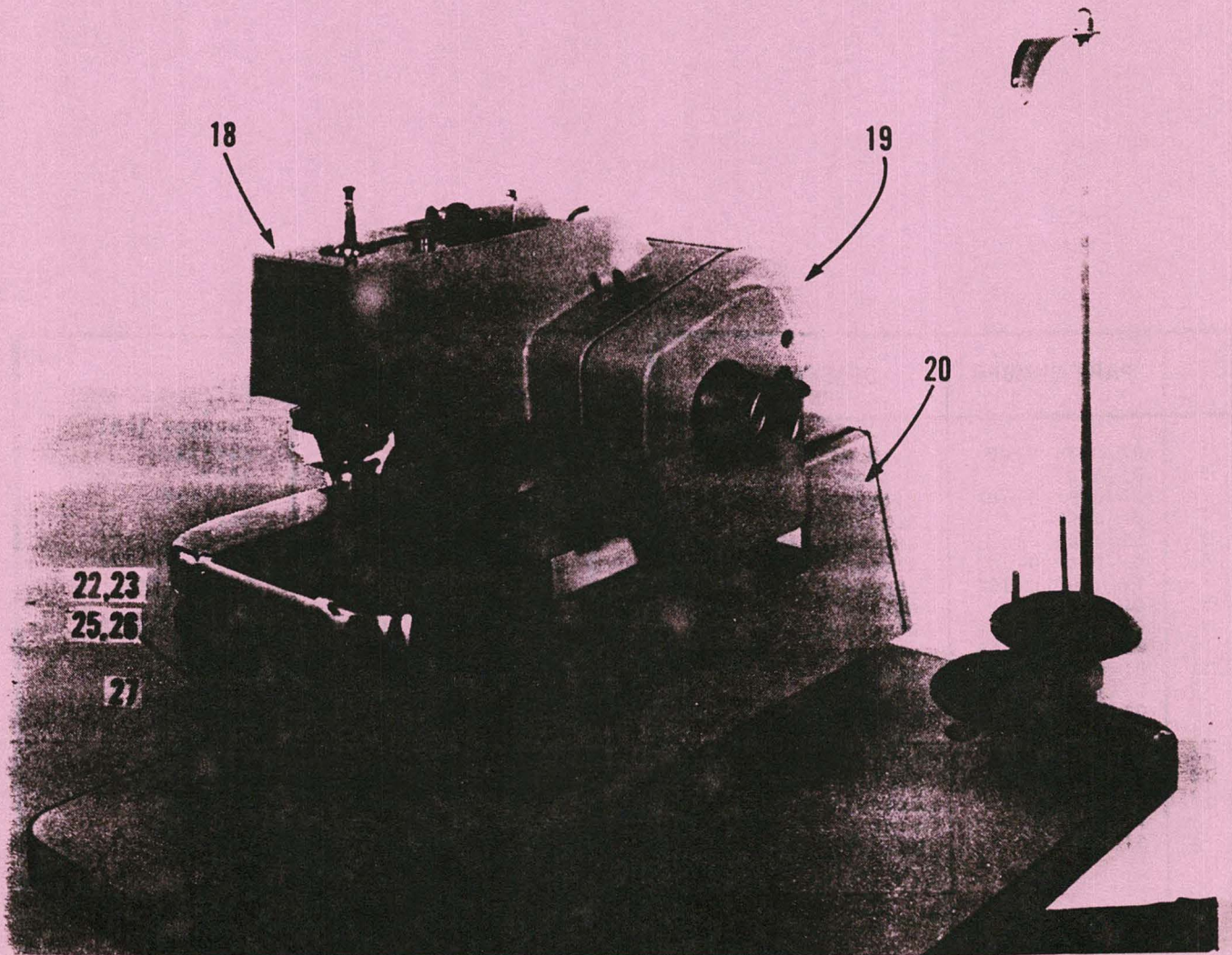
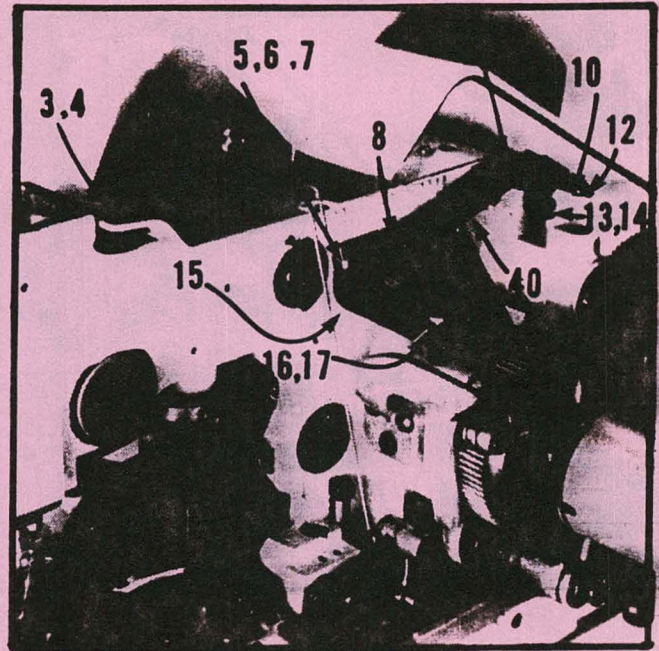
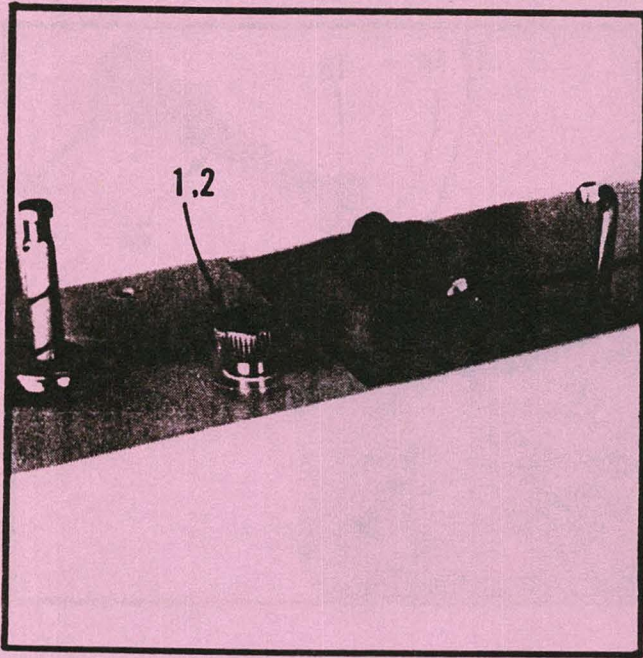
Cutting Steels		
Model	Size & Style	Part No.
		All 10-1069-Plus
AF-CA-R-RE	1/2" Eye	0-001
and AF-CB/CA-R-RE	5/8" Eye	0-002
	3/4" Eye	0-003
	7/8" Eye	0-004
	1" Eye	0-005
	1 1/8" Eye	0-006
	1 1/4" Eye	0-007
	1/2" No eye	0-010
	5/8" No eye	0-011
	3/4" No eye	0-012
	7/8" No Eye	0-013
	1" No eye	0-014
	1 1/8" No eye	0-015
	1 1/4" No eye	0-016
AF-CB-R-FE	1/2" Eye	0-073
(may also be	5/8" Eye	0-074
used with	3/4" Eye	0-075
AF-CB-R-RE)	7/8" Eye	0-076
	1" Eye	0-077
	1 1/8" Eye	0-078
	1 1/4" Eye	0-079
	5/8" No eye	0-082
	3/4" No eye	0-083
	7/8" No eye	0-084
	1" No eye	0-085
	1 1/8" No eye	0-086
	1 1/4" No eye	0-087
Knives		
Model	Size & Style	Part No.
AF-CA-R-RE	1 1/4" RE	10-3072-0-024
and AF-CB/CA-R	1 1/4" NE	10-3072-0-023
and RE		
AF-CB-R-FE	1 1/4" FE	10-3072-0-033
	1 1/4" NE	10-3072-0-023





DET.	PART NUMBER	DESCRIPTION
1	07-0086-0-001	Stud Ball
2	01-4701	Washer
3	07-0087-0-001	Retainer
4	07-0302-1	Gas Spring
5	13-3105	Bracket (RH)
6	01-2247-0-002	Screw
7	13-3109-0-002	Thread Guide
8	01-7447-1	Guide
9	01-6551	Ring Retainer
10	01-2872-0-400	Screw
11	01-4528-0-006	Washer
12	13-3107-1	Sector
13	04-1712	Cap Plug
14	13-3127	Cord Guide
15	01-5602	Spring
16	13-3103	Sector Arm
17	13-5024	Extension Link
18	13-5025-1	Link
19	01-4002	Washer

20	01-6569-0-002	Pin
21	13-3104	Link
22	13-3102-0-001	Support (LH)
23	01-5061	Spring
24	04-1791	Knob
25	13-3099	Striker
26	01-2782-0-002	Screw
27	13-3106-0-001	Bushing (LH)
28	13-3106-0-002	Bushing (RH)
29	01-2877	Screw, Rear
30	01-4746	Washer
31	01-2877-0-003	Screw, Front

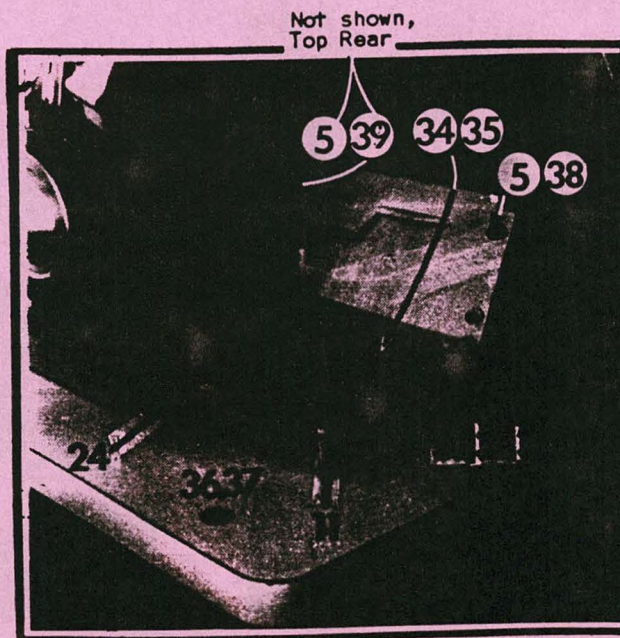
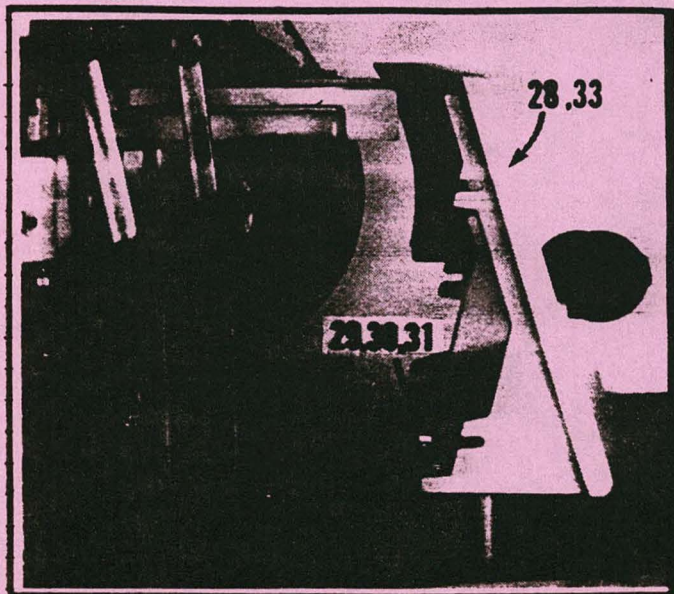


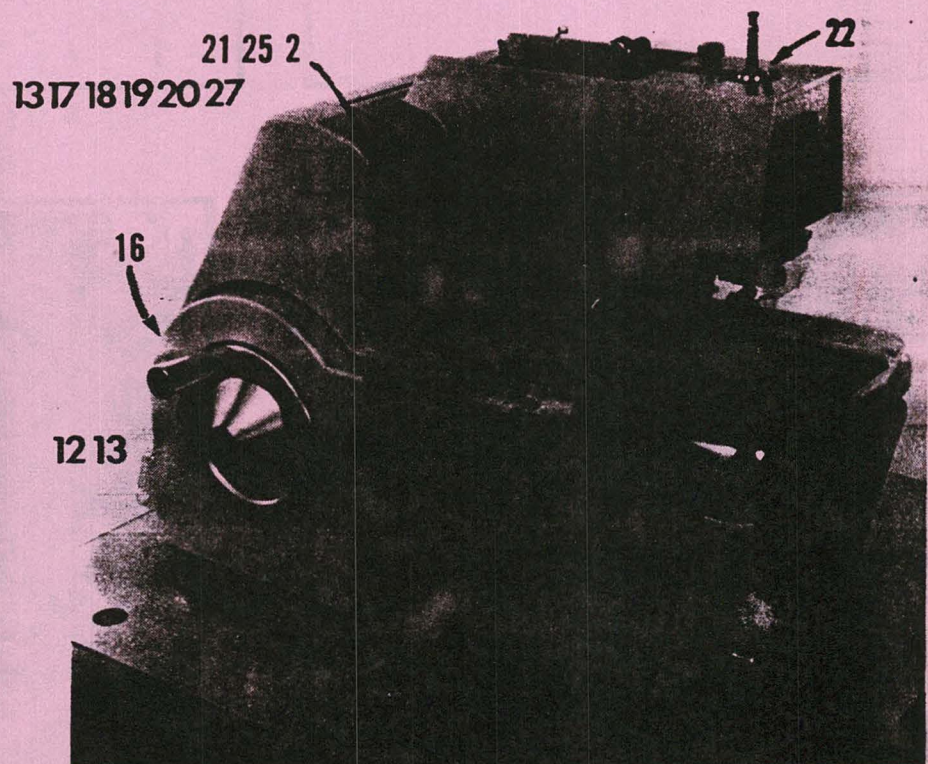
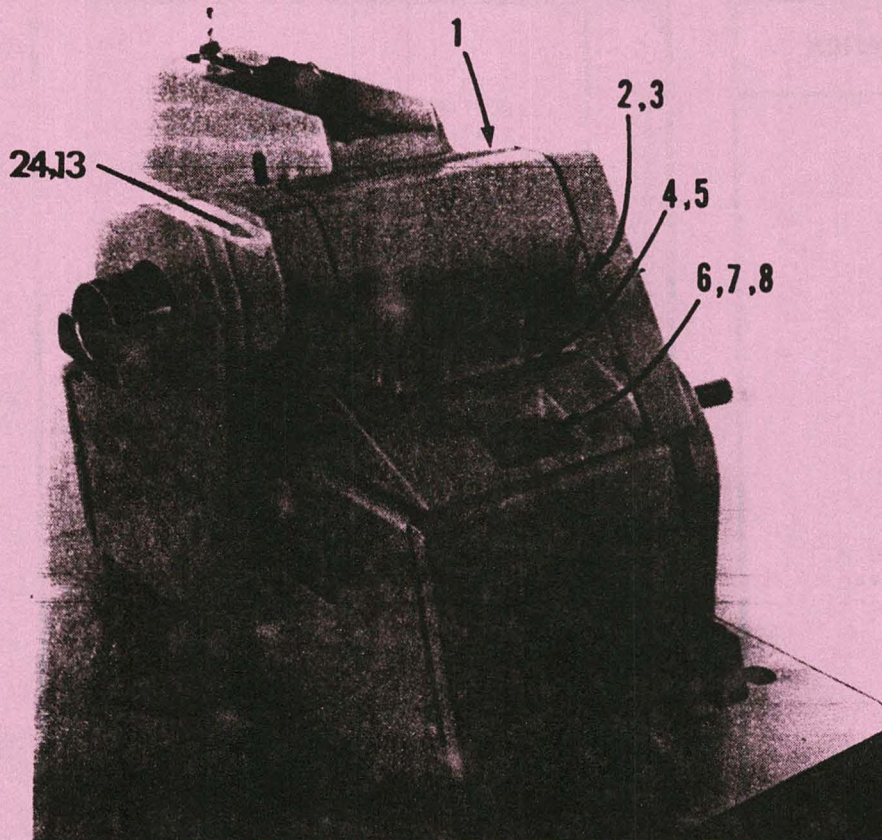
COVERS & SUPPORTING MEMBERS

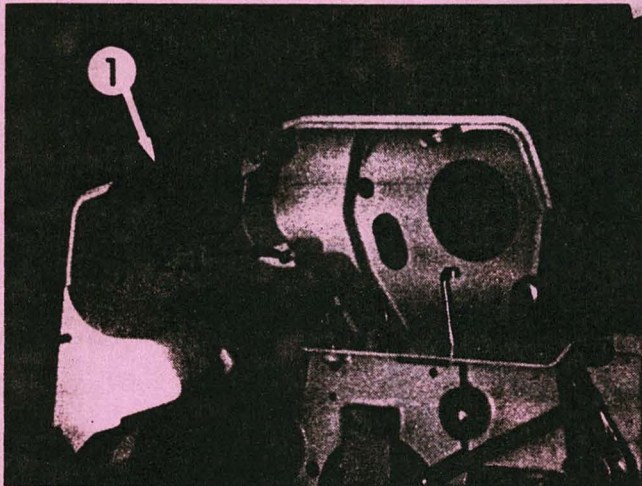
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DET.	PART NUMBER	DESCRIPTION
1	13-0511-3	Screw
2	01-4777	Washer
3	01-7626-0-001	Bushing
4	05-1120	Adhesive
5	01-4412	Washer
6	01-1728-0-401	Screw
7	01-4672-0-301	Lock Washer
8	13-0513-1	Stud
9	01-1453	Screw
10	01-4406	Lock Washer
11	13-5014	Waste Tray
12	13-0530	Hinge
13	01-7625	Bushing
14	01-1480	Screw
15	13-0508-1	Bracket
16	01-4549	Washer
17	01-2732-0-300	Screw
18	14-0525-0-003	Head Cover
19	13-0523-0-002	Rear Cover (R.H.)
20	13-0527-0-001	Base Side Cover (R.H.)
21	13-5031	Front Base Panel
22	13-5032-1	Clip
23	01-2247	Screw
24	13-5015	Pad Acoustic
25	13-5033-0-001	Gasket
26	13-5033-0-002	Gasket
27	13-5029-1	Front Base Panel
28	13-5030-0-001	Base Panel Back
29	01-2845	Screw
30	01-4578	Lock Washer

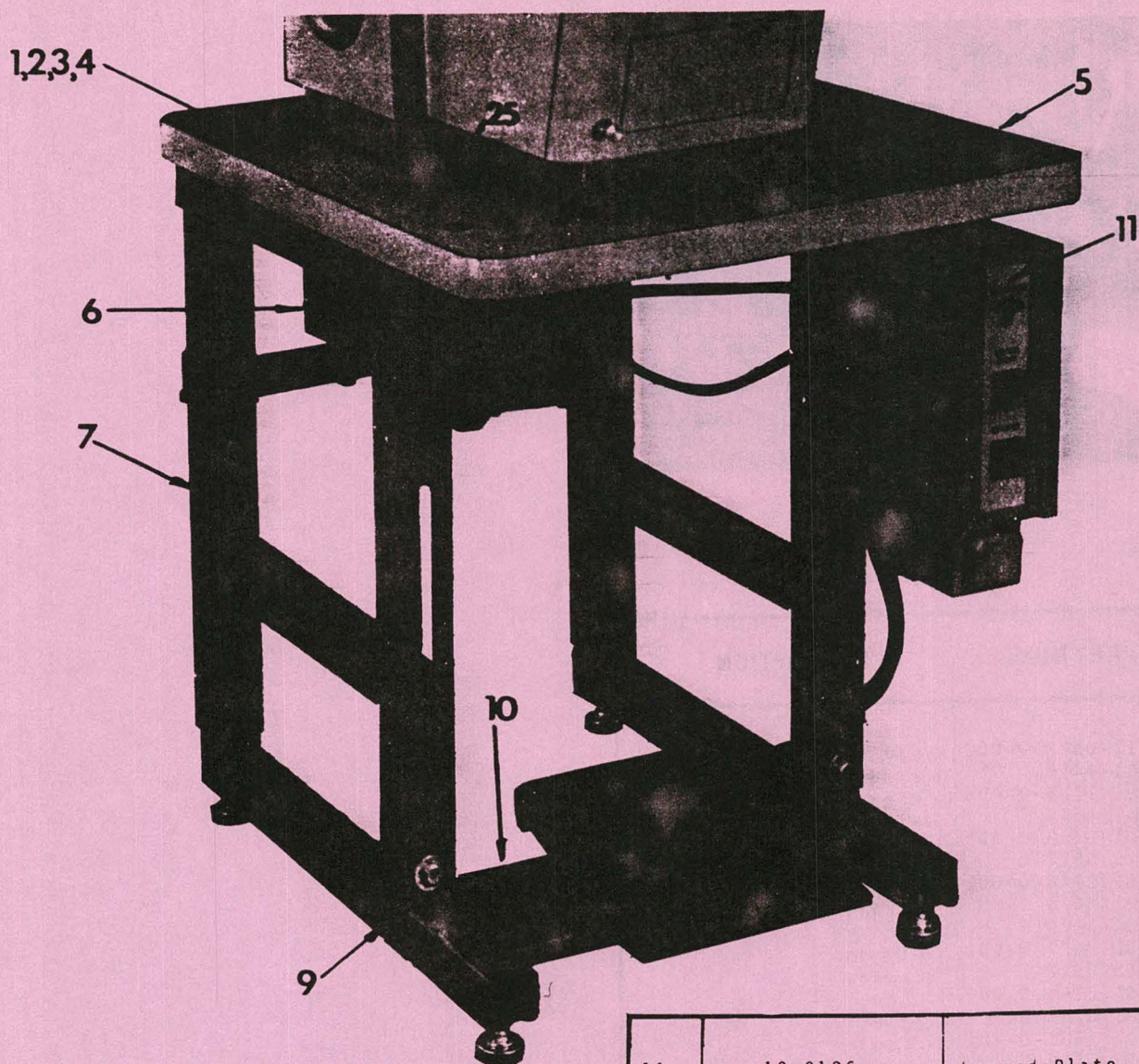
31	01-4579	Washer
32	13-5021-1	Base
33	01-2247-0-002	Screw
34	04-1283-0-001	Swivel Guide
35	01-3406	Nut
36	01-4579-0-004	Washer
37	01-2886-0-006	Screw
38	01-1728-0-406	Screw
39	01-1728-0-402	Screw (Not Shown)
40	13-0514-1	Latch
41	05-1130	Name Plate



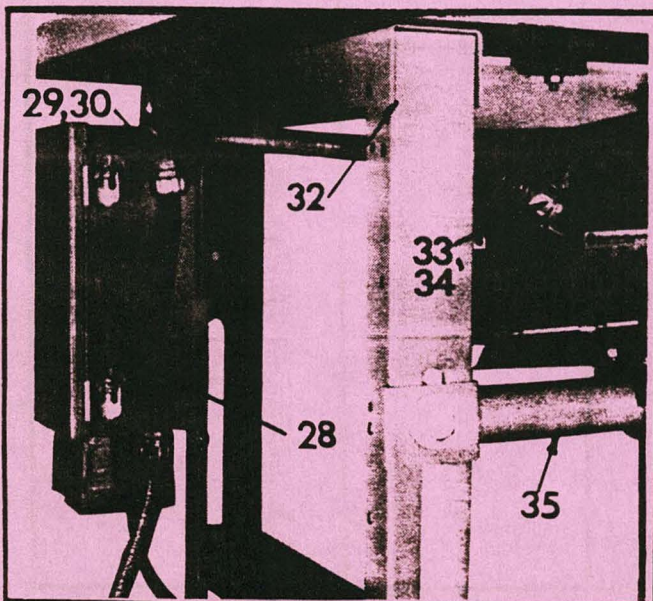
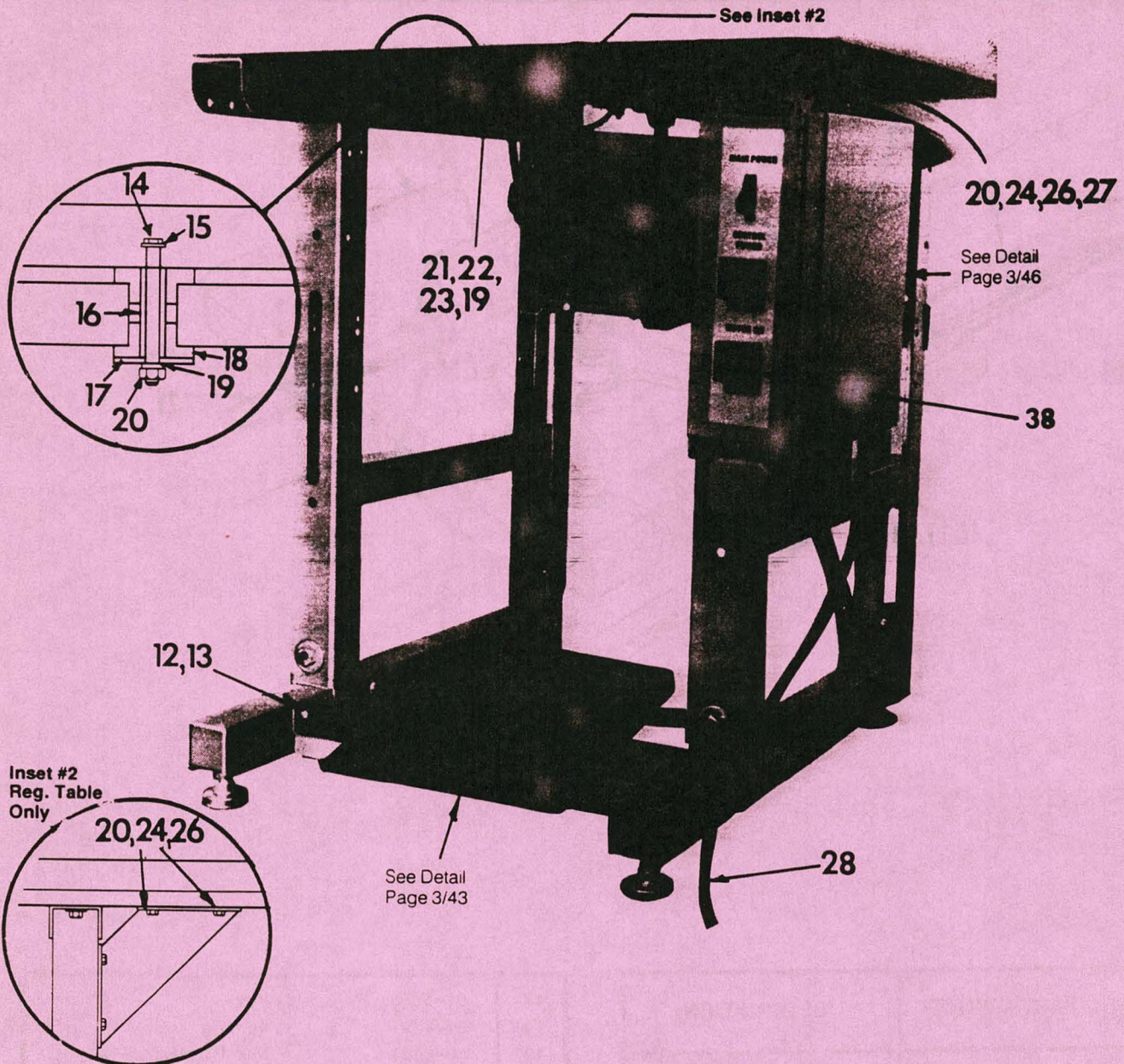




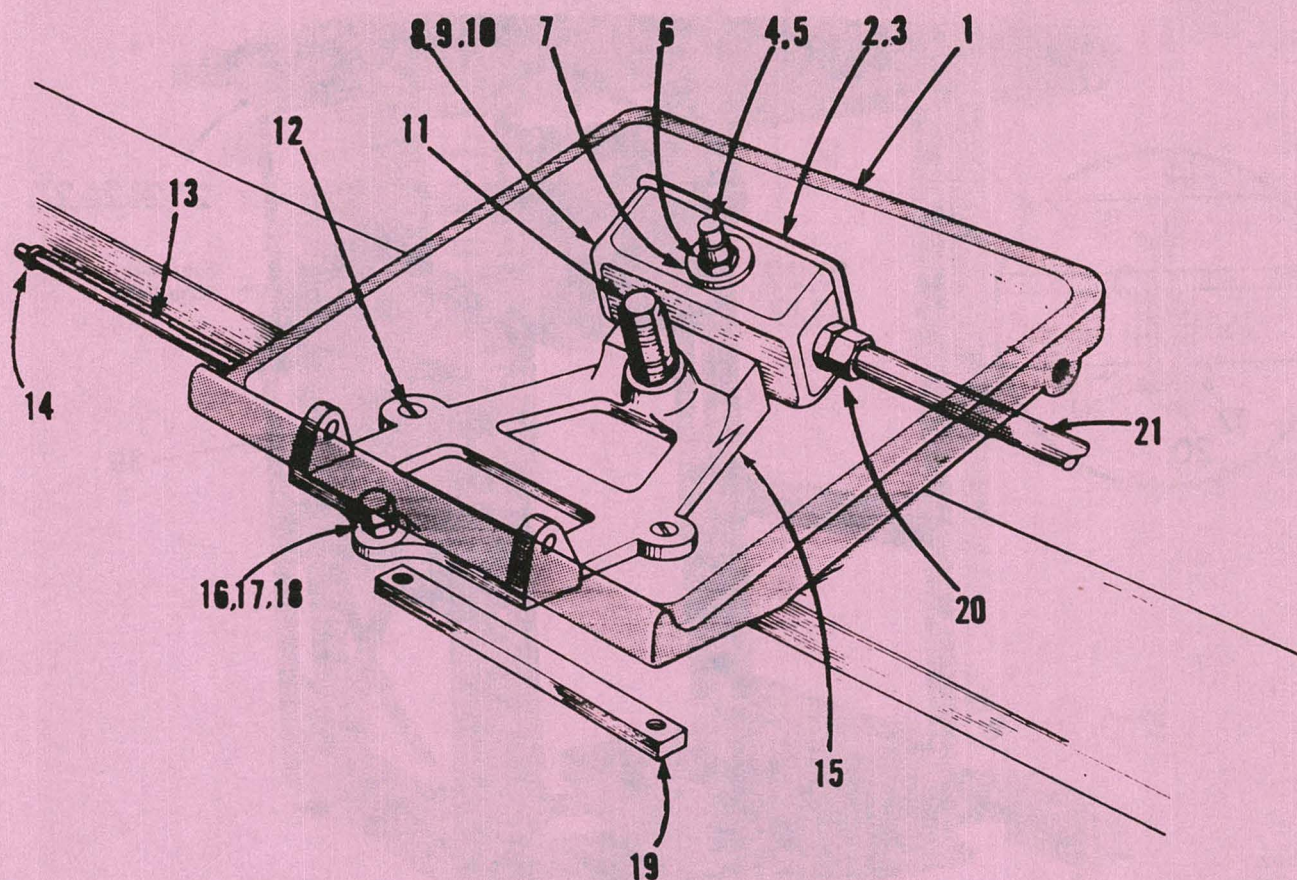
DET.	PART NUMBER	DESCRIPTION
1	13-0522-0-002	Head Center Cover
2	01-4412	Washer
3	01-1728-0-406	Screw
4	01-4549	Washer
5	01-2732-0-300	Screw
6	13-0517-1	Cover
7	01-2246-0-001	Screw
8	01-4673	Lockwasher
9	05-1120	Adhesive
10	01-7627-0-001	Bushing
11	13-0512-1	Bracket
12	01-2260-0-004	Screw
13	01-4781-0-701	Washer
14	01-1686-0-401	Screw
15	13-1188	Cam Support
16	13-0526-0-002	Base Side Cover (L.H.)
17	13-0524-0-003	Rear Cover (L.H.)
18	13-0528-0-001	Bracket (L.H.)
19	01-1739-0-101	Screw (Bracket to Head)
20	05-1096	Loctite 242-31
21	13-0516	Guard
22	14-0525-0-003	Head Cover
23	10-1129-1	Long Dowel
24	01-2247-0-004	Screw
25	01-2816-0-000	Screw
26	10-1128	Short Dowel
27	01-2260-0-603	Screw (LH Cover to Bracket)



DET.	PART NUMBER	DESCRIPTION
1	01-4422	Lockwasher
2	01-3406	Nut
3	01-2607	Screw
4	01-4043	Washer
5	04-1554-2-	Table Top (Standard)
	04-1555-2-	Table Top (Narrow)
6	04-1549	Belt Guard
7	04-2502	Leg (Standard)
	04-2505	Leg (Narrow)
9	01-2444	Screw
10	04-2503	Treadle Rail (Standard)
	04-2506	Treadle Rail (Narrow)
11	13-0106	Legend Plate
12	01-3549	Nut
13	01-4581	Lockwasher
14	01-1663-0-004	Bolt
15	01-4400-0-001	Washer
16	01-4748-0-002	Spacer (Standard)
	01-4748-0-001	Spacer (Narrow)
17	01-4749	Washer
18	04-1551-0-001	Bushing
19	01-4004	Lockwasher
20	01-3057	Nut
21	01-2871	Screw
22	01-2640	Screw
23	04-1548	Nut Plate
24	01-2830	Screw
25	04-0057-2	Gimp Guide Insert
	01-6673-0-001	Retaining Ring
26	01-4578	Lockwasher
27	01-4579	Washer
28	06-0173	Power Cord, (3 Phase)
	04-0136	Power Cord

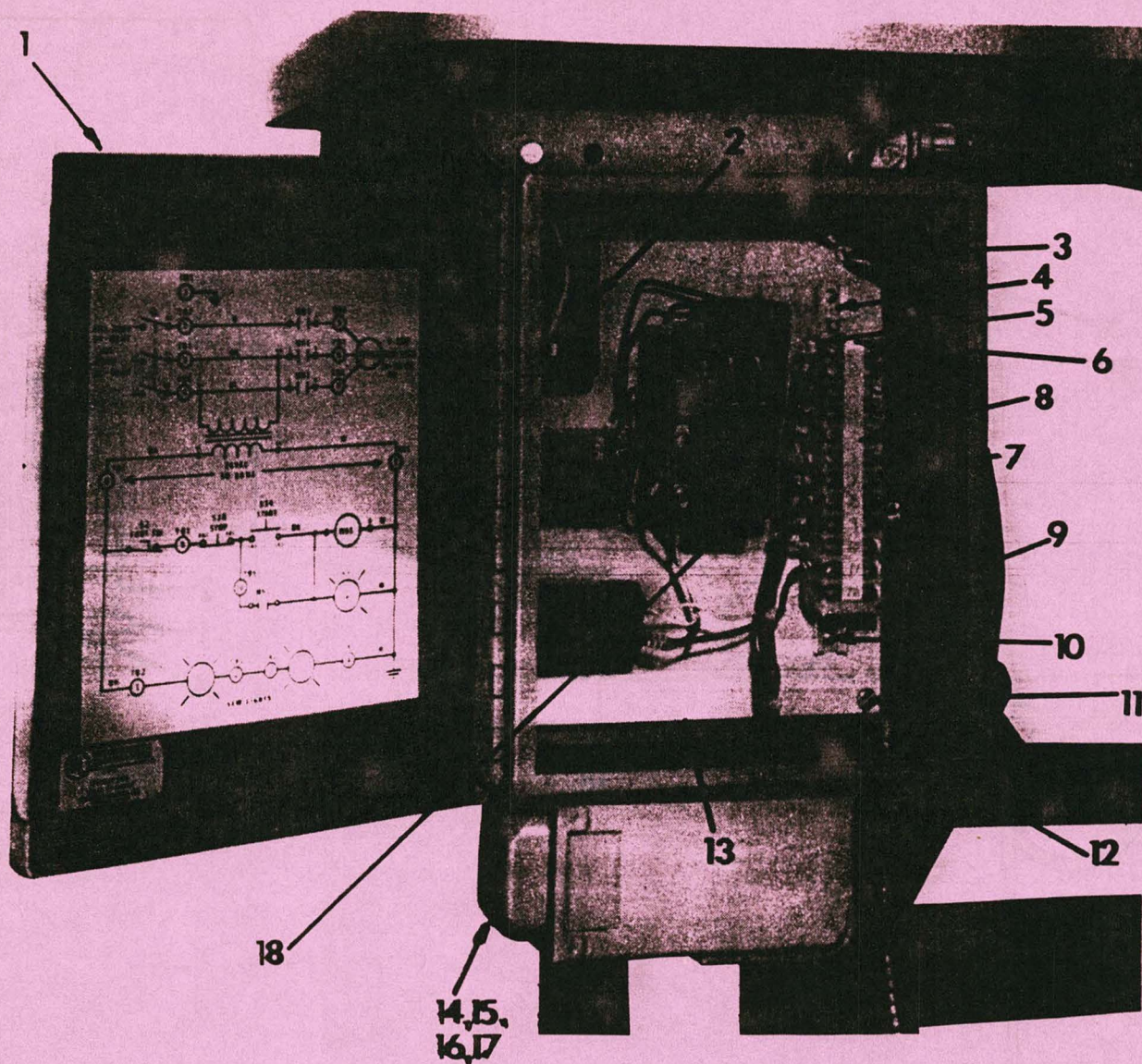


29	04-0564-0-004	Strain Relief
	04-0564-0-002	Strain Relief
30	04-0084-0-802	Conduit Nut
31	01-2096-0-001	Screw
32	01-4750	Washer
33	04-0086	Connector
34	30-0278	Terminal
35	04-2504	Motor Rail (Standard)
	04-2507	Motor Rail (Narrow)
36	04-2510	Drawer
37	01-2616	Screw
38	06-0389	Light Pilot



DET.	PART NUMBER	DESCRIPTION
1	04-0180-0-003	Treadle
2	30-0042	Cover
3	01-2715	Screw
4	04-0184	Switch
5	01-4461	Spacer
6	01-3430	Nut
7	04-0123	Washer
8	30-0040	Box
9	01-2368	Screw
10	01-4063	Washer
11	04-0181	Stop
12	01-2444	Screw
13	01-6581	Shaft
14	01-6582	Retaining Ring
15	04-0179-0-001	Base
16	01-2526	Screw

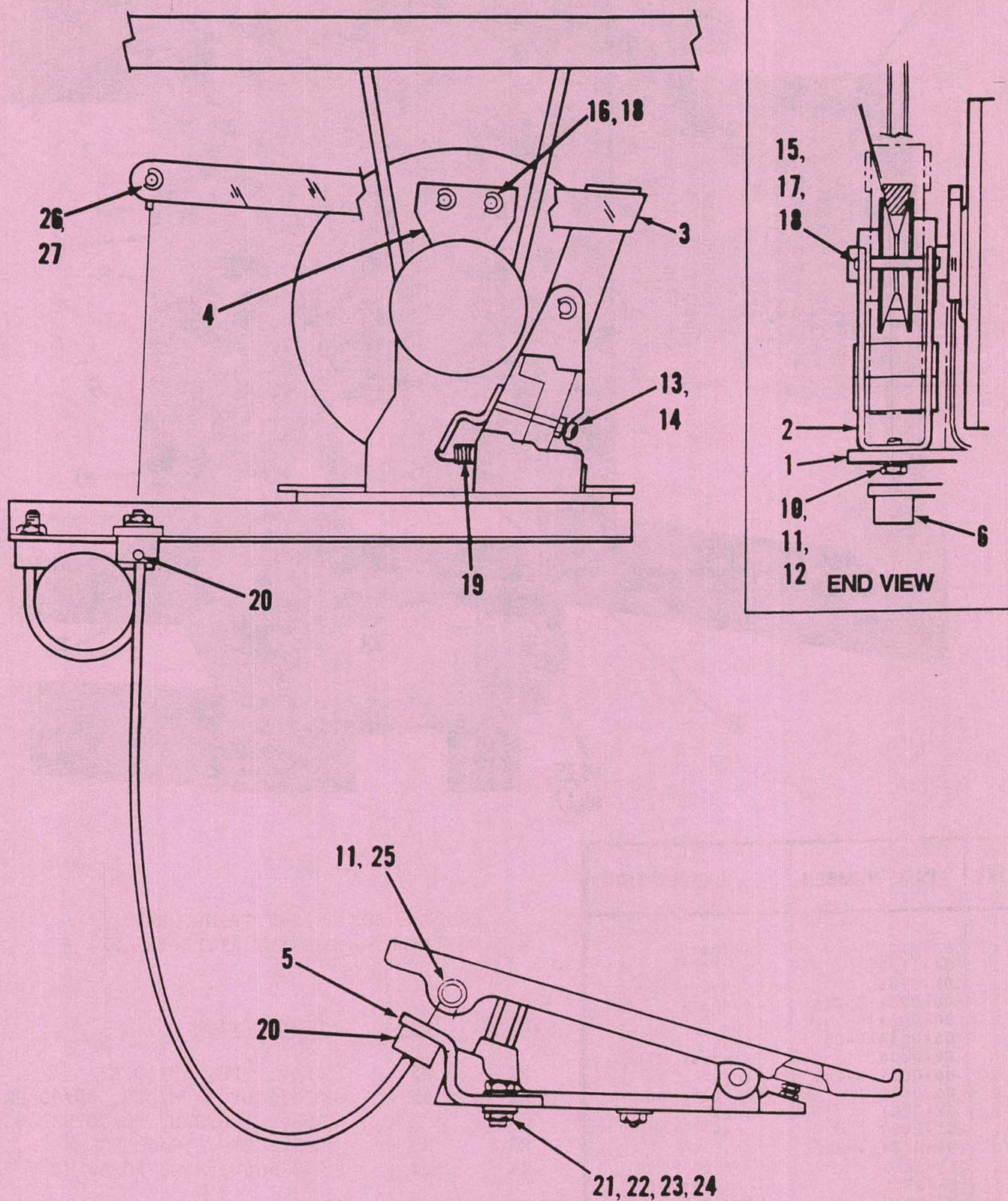
17	01-3066	Nut
18	01-5621	Spring
19	40-0301	Nut Plate
20	04-0087	Connector
21	06-0098-0-001	Cable

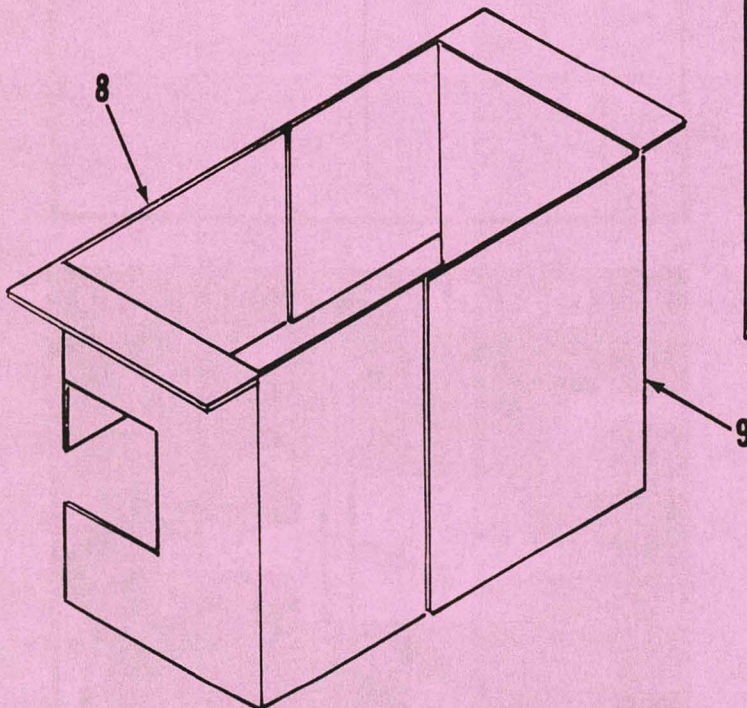
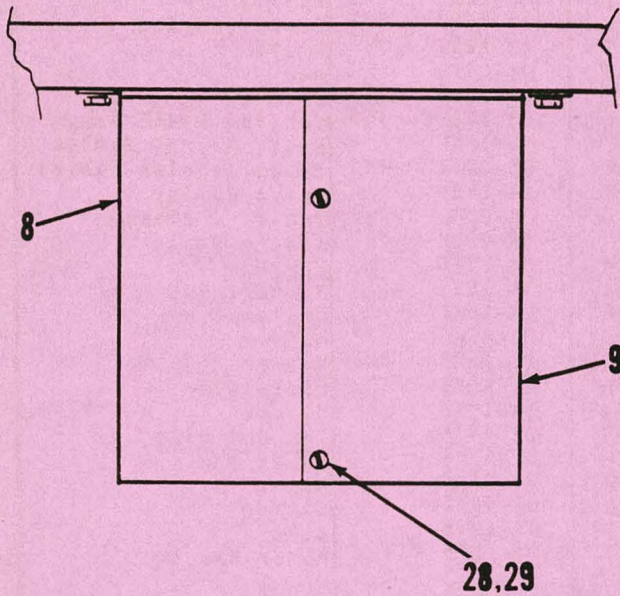


DET.	PART NUMBER	DESCRIPTION
1	13-0109	Cabinet
2	04-1133	Switch
3	01-2766	Screw
4	06-0017-0-016	Channel
5	06-0024	Clip
6	06-0094-0-001	Plug
7	06-0030	Terminal Block
8	06-0039-0-102	Strip
9	06-0031	End Barrier
10	01-2481	Screw
11	01-2680	Screw
12	04-0084-0-802	Nut
13	13-0110	Control Panel
14	06-0545	Transformer
15	05-0369	Wire Nut
16	01-2247	Screw
17	01-4672-0-001	Lockwasher
18	04-1208	Contact

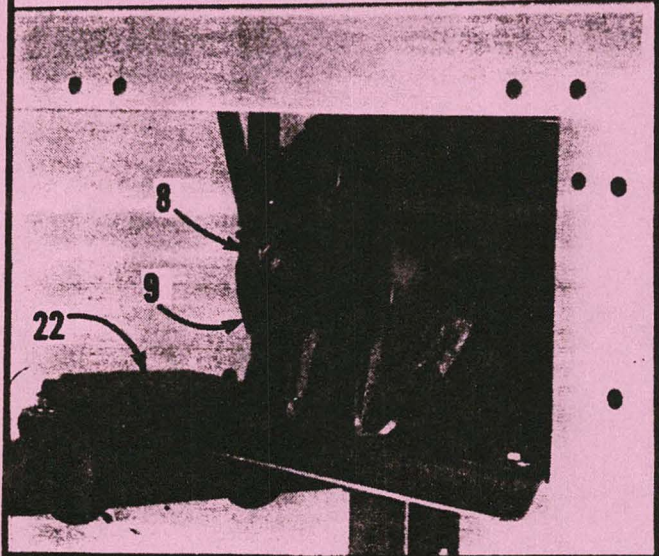
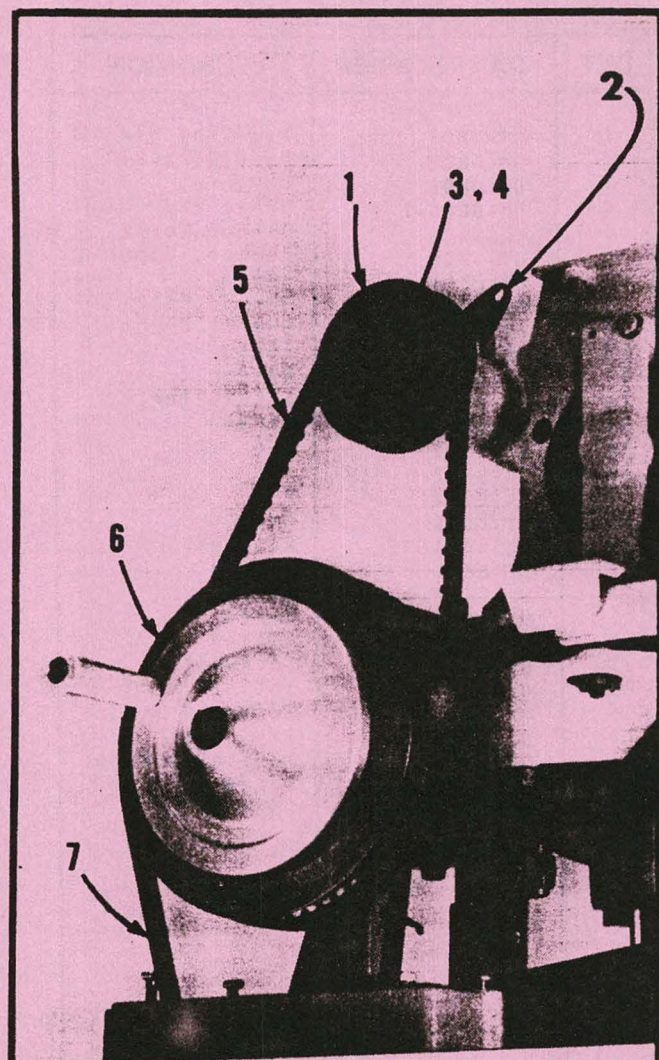
CONTROL BOX -- 24V TRANSFORMER
 WIRING TABLE -- PRESENT STYLE (X1,X2) *

TB1-4	TB1-3	DESCRIPTION
H1	H5	120V, 1PH, 50/60 HZ
H2	H5	220/230V, 1PH/3PH, 50/60 HZ
		208V, 1PH/3PH, 50/60 HZ
H3	H5	380V, 3PH, 50/60 HZ
H4	H5	440/460V, 3PH, 50/60 HZ

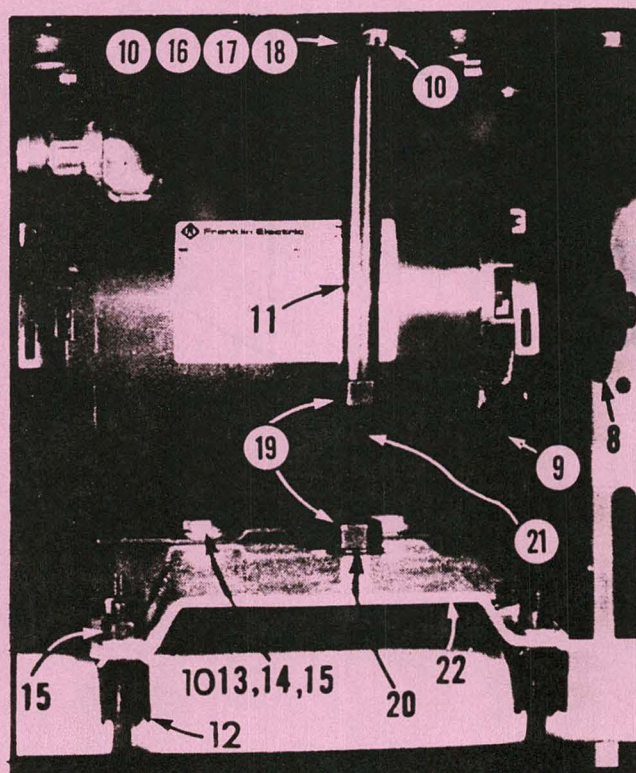


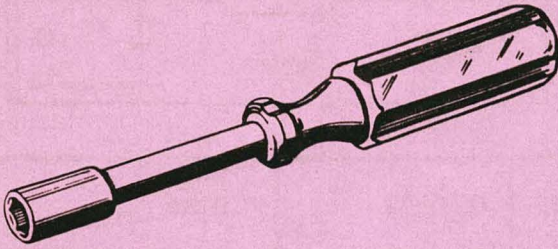


DET.	PART NUMBER	DESCRIPTION
1	04-0803	Mounting Plate
2	04-0802	Pivot Bracket
3	04-0801	Lever
4	04-0804-1	Brake Pad
5	04-0805	Anchor, Lower
6	04-0806	Anchor, Upper
7	04-0811	Cable
8	04-0808	Guard, Rear
9	04-0809	Guard, Front
10	01-2830	Screw
11	01-4445	Washer
12	01-4004	Lockwasher
13	01-1694-0-509	Screw
14	01-3061	Nut
15	04-0812-0-002	Pin
16	04-0812-0-001	Pin
17	01-4035	Washer
18	01-6474	Retaining Ring
19	01-5654	Spring
20	01-2442-0-001	Screw
21	01-1658-0-001	Screw
22	01-4579-0-001	Washer
23	01-4581	Lockwasher
24	01-3549	Nut
25	01-2328	Screw
26	01-6488	Pin
27	01-6474	Retaining Ring
28	01-1728-0-402	Screw
29	01-4672-0-001	Lockwasher



DET.	PART NUMBER	DESCRIPTION
1	13-1239	Pulley
2	13-0528-0-001	Cover Bracket
3	13-1237	Shaft
4	01-8413	Key
5	05-1103	Belt
6	13-3039-1-050	Cutting Wheel Asm.
7	05-1102	Belt, Narrow Tables
	05-0087-0-420	Belt, Regular Tables
8	04-1609	Drive Pulley
9	04-0002-0-046	Motor, 3 Phase
	04-0002-0-071	Single Phase
10	01-2640	Screw
11	04-1553	Support Rod
12	04-1524	U-Clamp
13	01-3549	Nut
14	01-4579-0-001	Washer
15	01-4581	Lockwasher
16	04-1552	Clevis
17	01-6475	Tru-Arc Ring
18	01-6904	Pivot Pin
19	01-3462	Nut
20	01-4415	Washer
21	01-2996	Bolt
22	04-1546	Motor Bracket

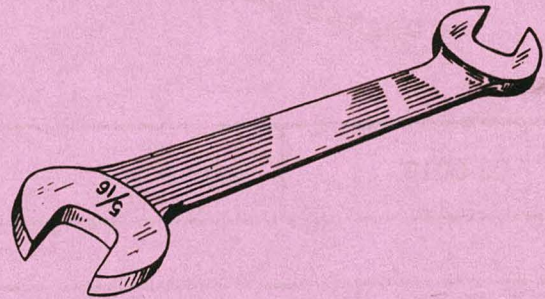




1

03-0007
03-0033

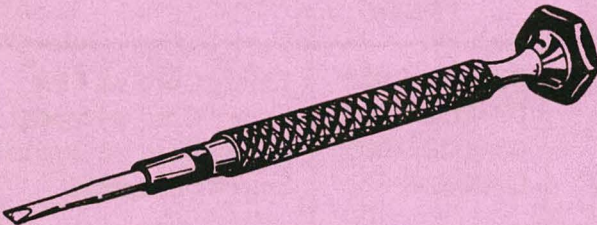
Socket Wrench 1/4"
Socket Wrench 5/16"



6

03-0018

3/8" - 5/16" Wrench

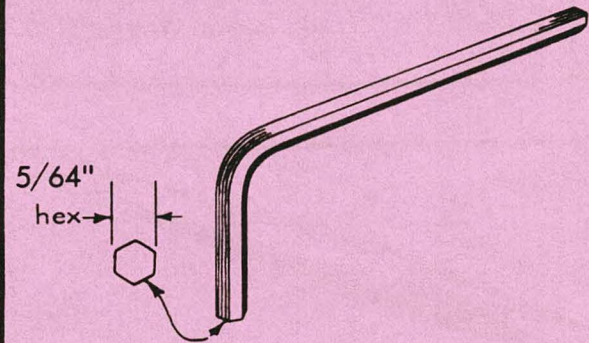


2

03-0038
03-0053

Screwdriver
Double ended Blade
(included with #2 or
can be ordered
separately.)

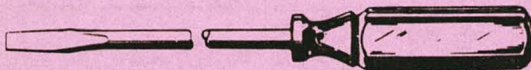
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7

03-0162
03-0404

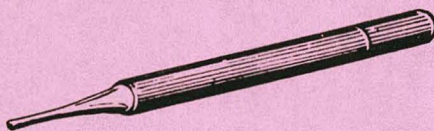
5/64" Wrench
.035 Allen Wrench



4

03-0188
03-0189
03-0024
03-0278

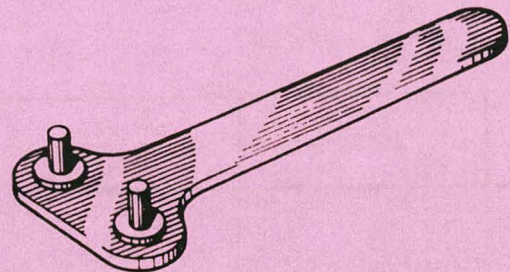
Screwdriver 3/16"-10"
Screwdriver 1/4"-8"
Screwdriver 3" Blade
Screwdriver 2" Blade



5

03-0045

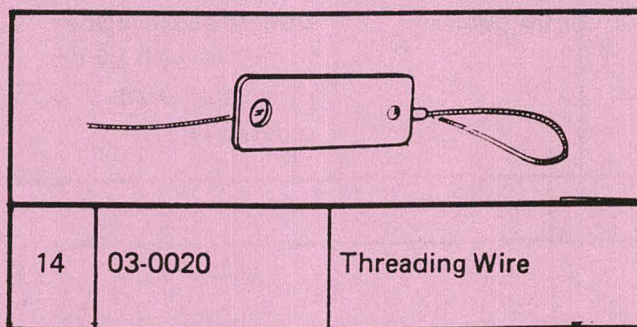
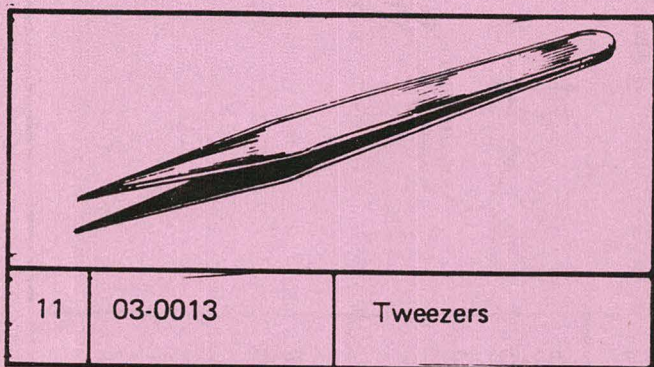
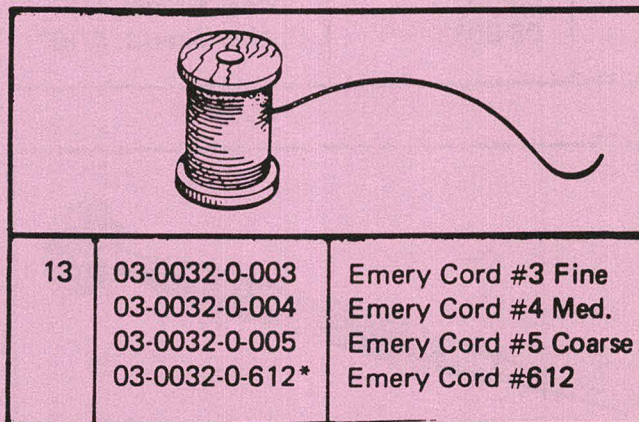
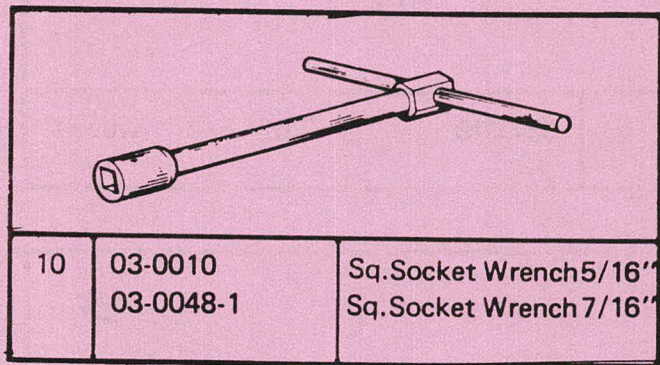
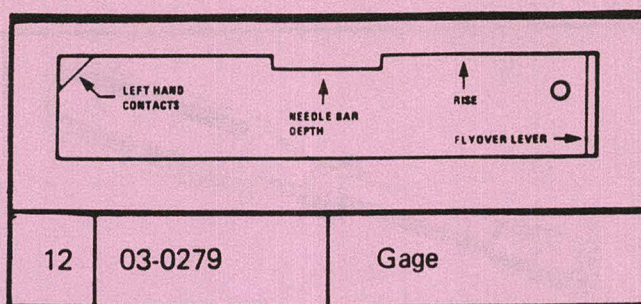
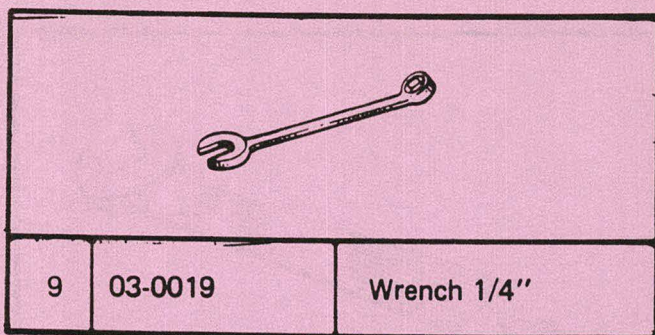
Pin Wrench



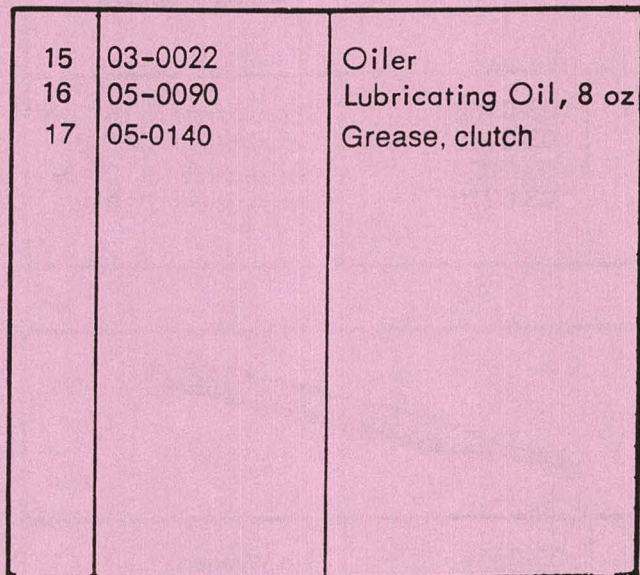
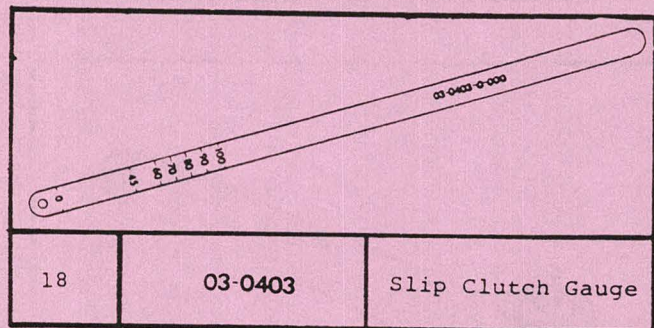
8

03-0011

Spanner Wrench



*Extra Fine (for loopers)



Needles for the Reece series 104 machines are packaged and sold in boxes of 100, in the sizes and types listed. They are of superior struck groove construction, chrome plated and are spotted at the eye except in size 00 and finer. When ordering, specify quantity — (100, 200 etc.) and give the Needle E.D.P. Number.

TYPE	APPLICATION	E.D.P. NUMBER	CODE NUMBER	NEEDLE BLADE SIZE
ROUND POINT LONG SHANK	Applicable to the majority of woven fabrics, knits and other materials of similar consistency. The Long Shank needles have added stiffness in the blade which permits the use of one size smaller needle than would be normally required. Long Shank needles can not be used on heavy material that would be penetrated by the tapered portion of the needle shank.	02-0500-1-000 02-0500-1-100 02-0501-1-110	500-LS-000 500-LS-00 501-LS-0	Extra Fine Very Fine Fine
ROUND POINT		02-0501-0-111 02-0501-0-112 02-0501-0-113	501-1 501-2 501-3	Medium Heavy Very Heavy
ROUND POINT BALL EYE	Applicable to closely woven fabrics or where sewing is over heavy seams, particularly in cottons. In sewing, the Ball Eye produces a hole in the fabric slightly in excess of the needle blade diameter, thereby reducing needle heating below that of a needle with uniform blade diameter.	02-0502-0-111 02-0502-0-112 02-0502-0-113	502-1 502-2 502-3	Medium Heavy Very Heavy
ROUND POINT DOUBLE GROOVE	The Double Groove needle should be used only when conditions justify it because it casts a smaller loop than standard needles and may introduce skipping. For this reason looper points should be set close to needle blade. This needle is used on materials having a tendency to trap the thread in its descent into the work which affects the thread takeup, or causes the thread to break at the needle's eye.	02-0503-0-111 02-0503-0-112 02-0503-0-113	503-1-DG 503-2-DG 503-3-DG	Medium Heavy Very Heavy
EXTRA LONG POINT BALL EYE	Applicable to fabrics which offer high resistance to needle penetration. Also recommended in cases where fast timing of the loopers is necessary. This needle differs from the 501 type needle only in length from the eye to the point.	02-0504-0-111 02-0504-0-112 02-0504-0-113 02-0504-0-114	504-1 504-2 504-3 504-4	Medium Heavy Very Heavy Heavy Denim
BALL POINT LONG SHANK	Applicable to synthetic fabrics, particularly of the tightly woven or tightly knitted types where the fibers of the material are subject to damage by conventional sharp pointed needles. The Long Shank needles of this type have the advantages stated above for Round Point Long Shank needles.	02-0505-1-100 02-0505-1-110	505-LS-00 505-LS-0	Very Fine Fine
BALL POINT		02-0505-0-111	505-1	Medium
ROCKED POINT BALL EYE	Applicable to leather and similar materials where conventional sharp pointed needles tend to leave excessive punctures. The split made by Rocked Point needles in leather will tend to close up after penetration. This needle permits a higher stitch density than is possible in leather with a Round Point needle.	02-0506-0-111 02-0506-0-112 02-0506-0-113 02-0506-0-114	506-1 506-2 506-3 506-4	Medium Heavy Very Heavy Extra Heavy
SPEAR POINT	Applicable to fabrics containing a high percentage of starch or similar substances which tend to cause needle heating or resistance to proper pulling up of the stitches.	02-0508-0-111 02-0508-0-112 02-0508-0-113	508-1 508-2 508-3	Medium Heavy Very Heavy



CORD TRIM

BUTTONHOLE MACHINES

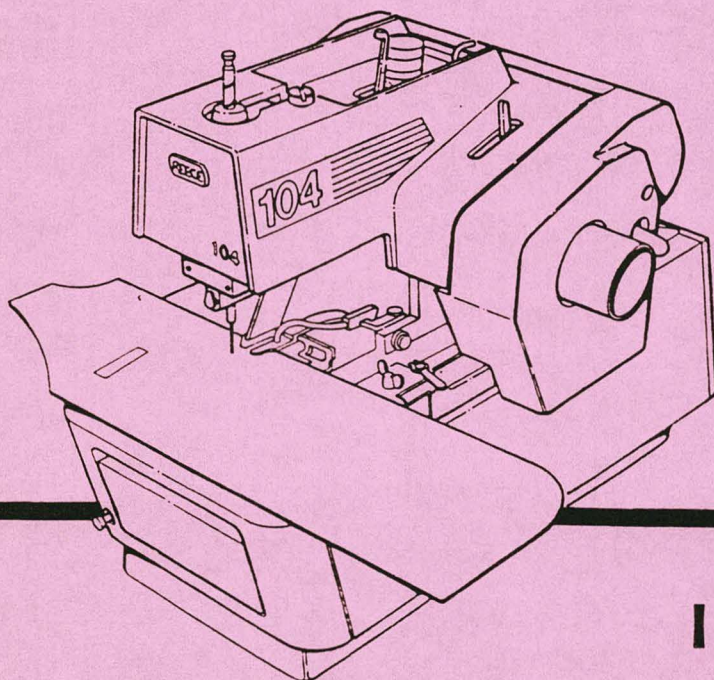
series 104

MODELS

CT·CA·RE

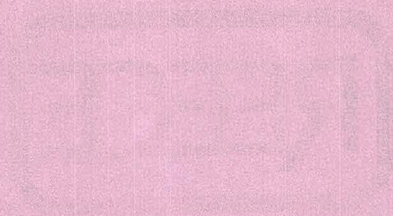
CT·CA·LE

CT·CB·RE



ILLUSTRATED PARTS

This section contains parts special to Cord Trim models. All other parts are standard and should be found in the Adjustable Flybar (basic) Section of this Manual.



11/10/10

11/10/10

11/10/10

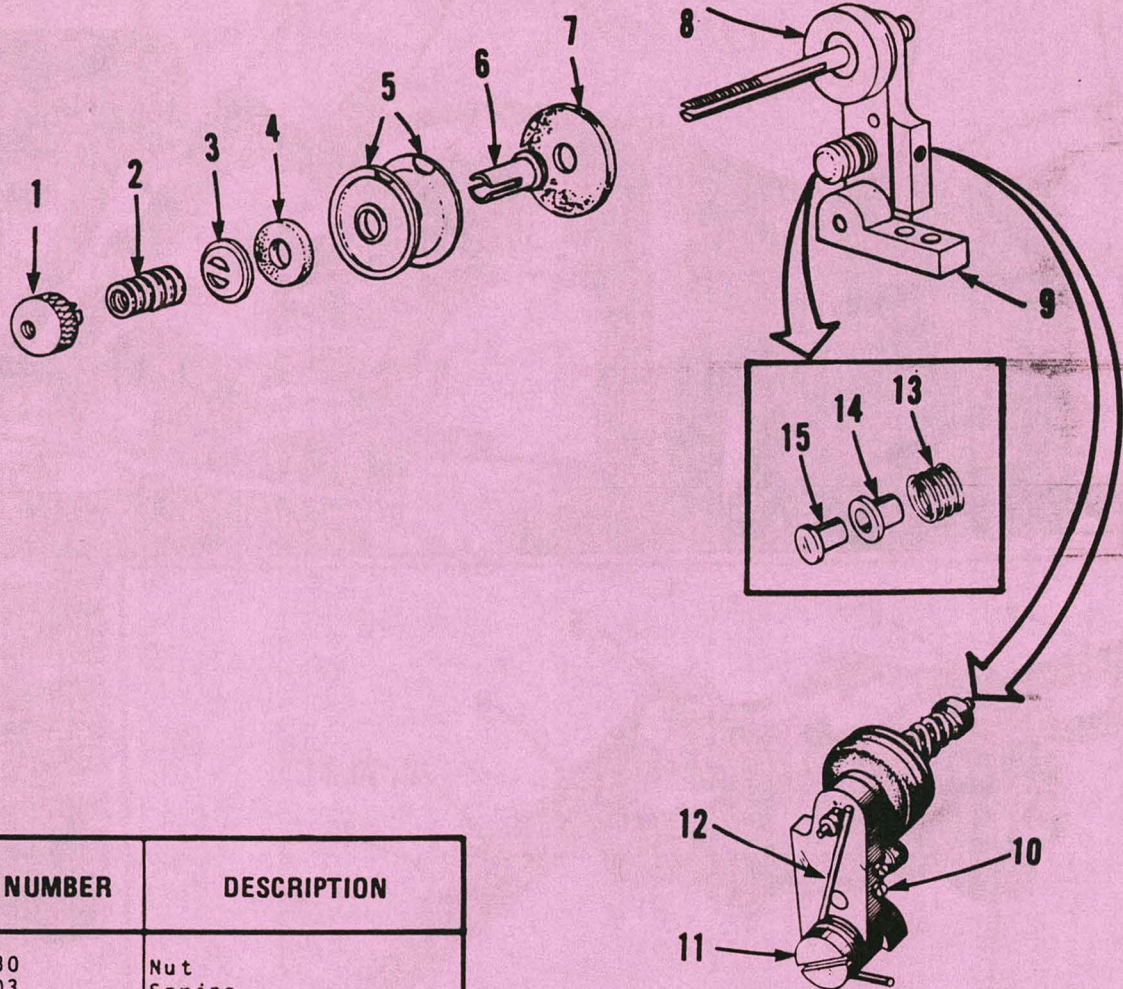
11/10/10

11/10/10

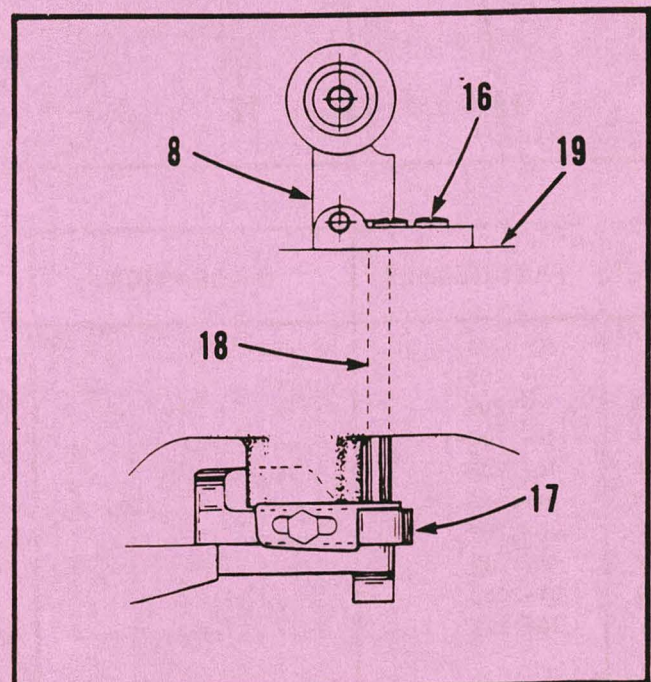
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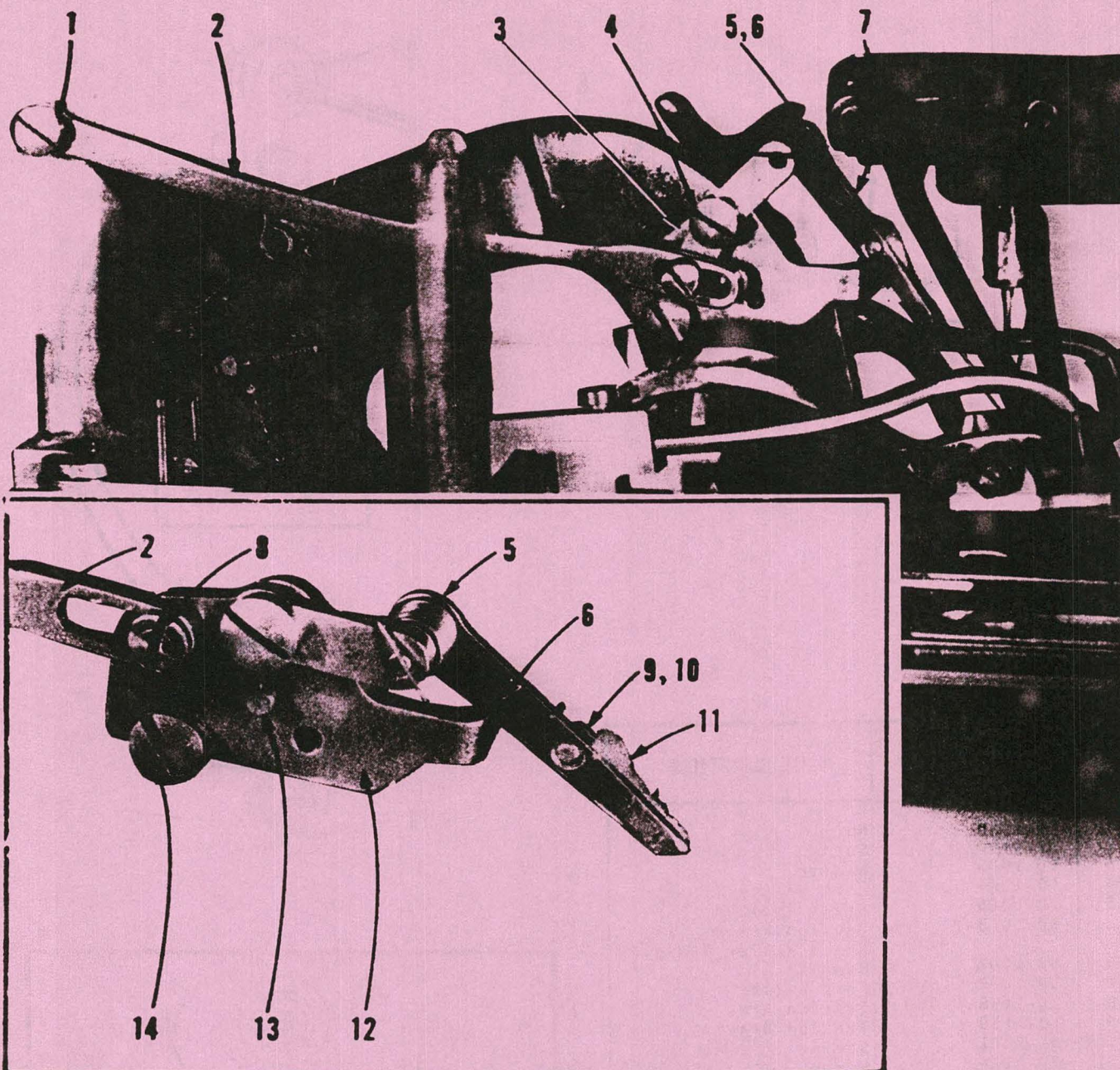
11/10/10

11/10/10



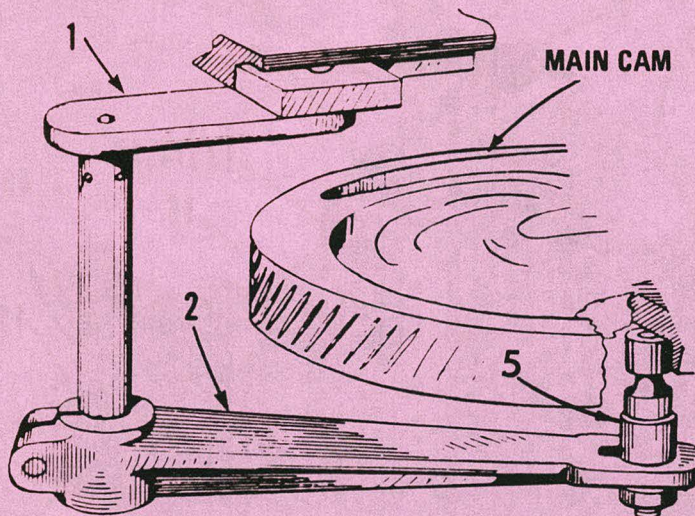
DET.	PART NUMBER	DESCRIPTION
1	10-4030	Nut
2	01-5603	Spring
3	10-1003	Washer
4	10-1004	Felt Washer
5	10-1005	Split Tension
	10-1078-1	Tension Roller (for Solid Roller Tension)
6	10-1007	Bushing
7	10-1077	Felt Washer
8	10-1158-1-050	Tension Arm
9	10-1159	Tension Bracket
10	01-2001	Screw
11	01-1114	Screw
12	01-5163	Torsion Spring
13	01-5002	Spring
14	10-1009	Bushing
15	10-1008	Guide
16	01-2039	Screw
17	10-1160	Cam
18	01-6334	Rod
19	13-1001-0-050	Head



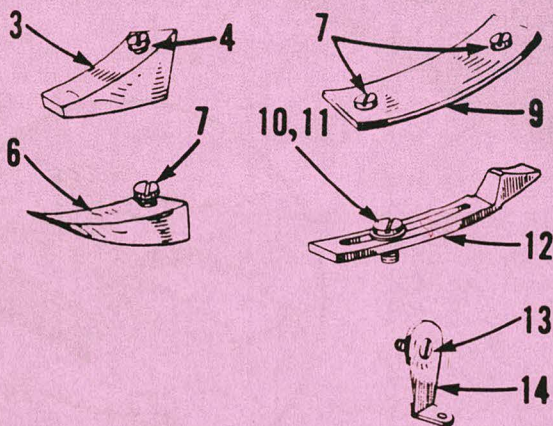


DET.	PART NUMBER	DESCRIPTION
1	10-1214	Screw
2	10-1205-1	Lever
3	10-1206	Link
4	10-1210-1	Pivot Screw
5	10-1208	Screw
6	01-5045	Spring
7	10-1207	Pickup
8	10-1209	Screw
9	01-2053	Screw
10	10-1211	Felt Retainer

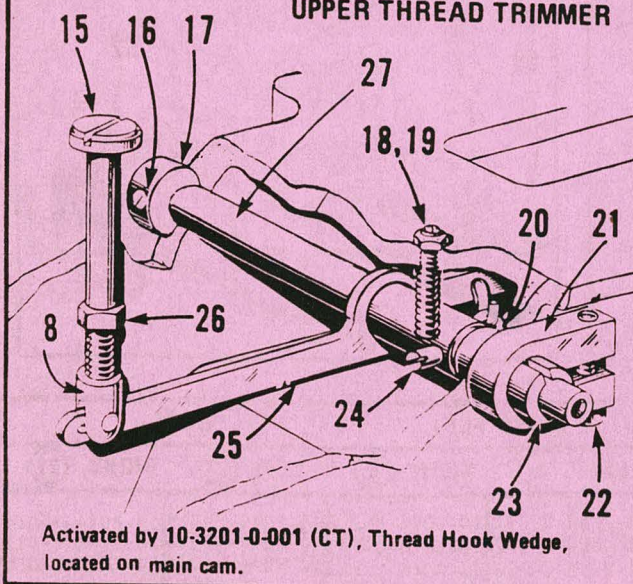
11	10-1213	Felt
12	10-1204-2	Adj. Plate
13	01-6009	Pivot Pin
14	01-2006	Adj. Screw



WEDGES & FILLER PIECES



UPPER THREAD TRIMMER



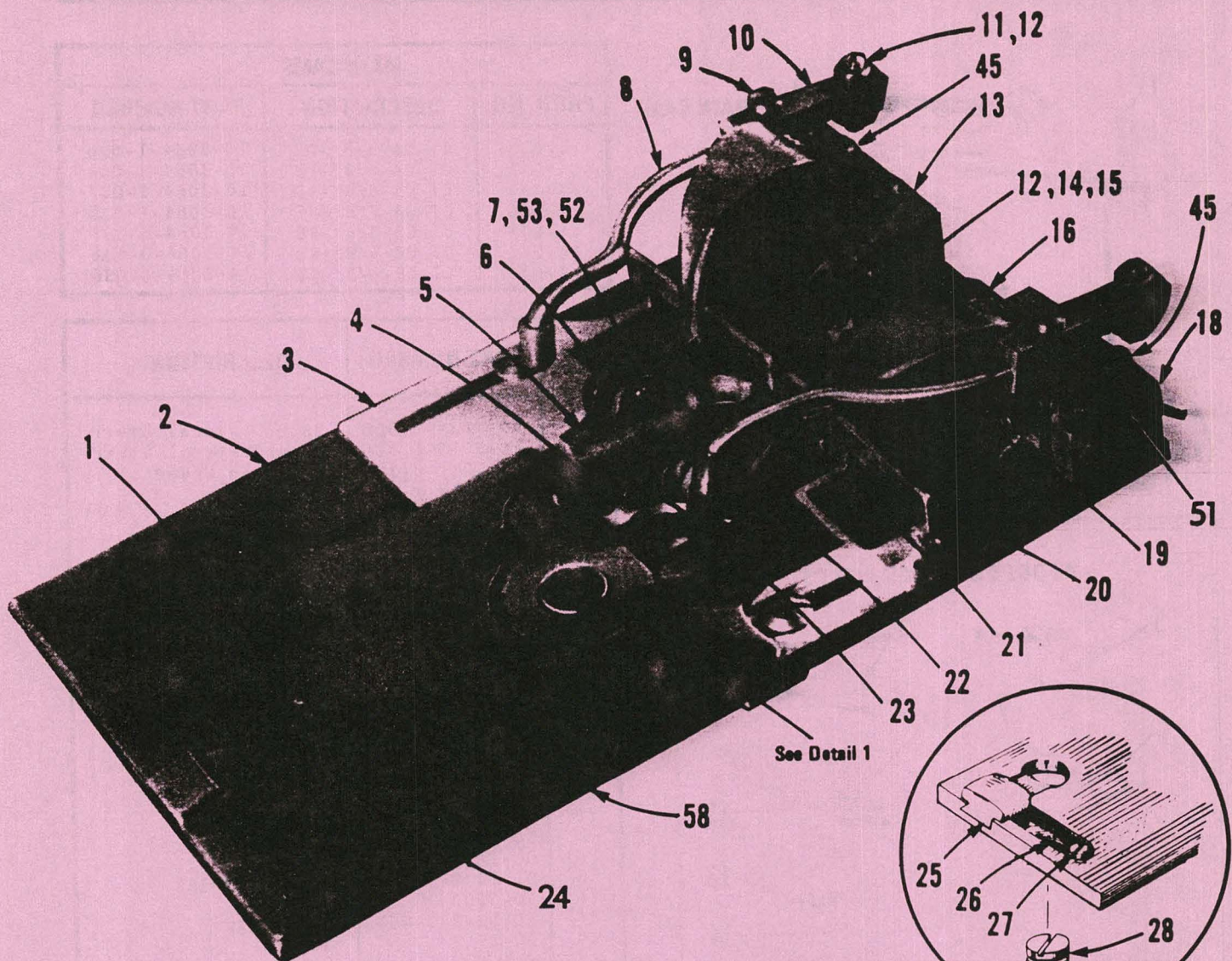
MAIN CAMS

PROD. NO.	DESCRIPTION	PART NUMBER
14-033	CT-CA-5/8"-RE	10-3064-1-036
14-034	CT-CA-5/8"-LE	10-3064-1-033
14-035	CT-CA-3/4"-RE	10-3064-1-037
14-036	CT-CA-7/8"-RE	10-3064-1-038
14-037	CT-CB-3/4"-RE	14-3064-0-037
14-038	CT-CB-5/8"-RE	14-3064-0-036
14-039	CT-CB-7/8"-RE	14-3064-0-038

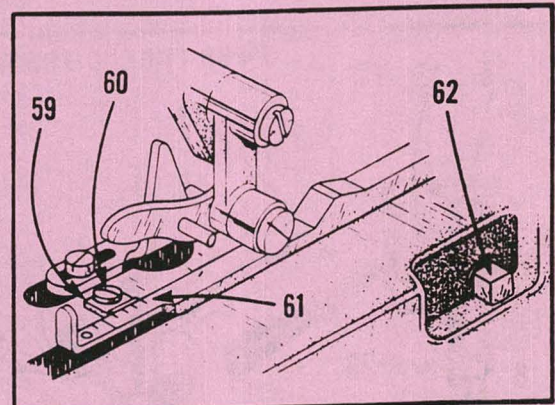
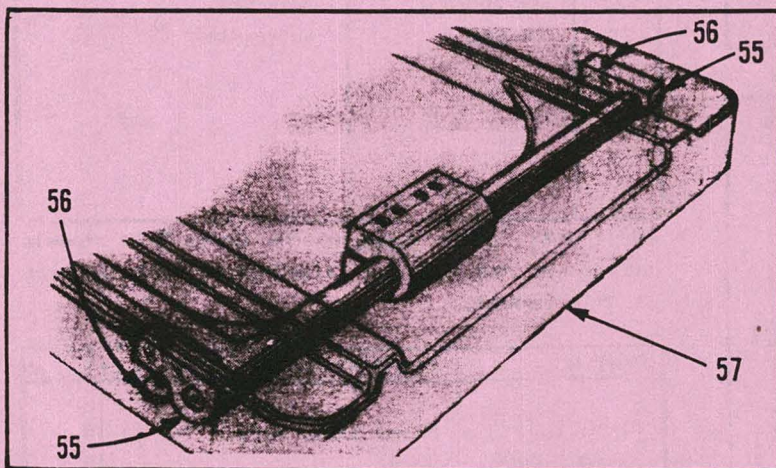
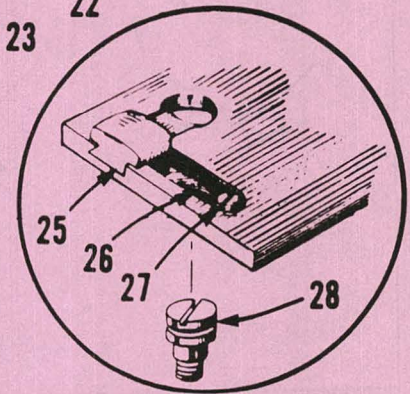
DET.	PART NUMBER	DESCRIPTION
1	10-3034-0-300	Upper Lateral Lever
2	10-3019-0-300	Lower Lateral Lever
3	10-3061-0-300	Clamping Wedge
4	01-2079	Screw
5	10-3020	Stud
6	10-3200	Unclamping Wedge
7	01-2054	Screw
8	10-3205	Clevis
9	10-3216-0-011	Long Filler Piece
10	01-2347	Screw
11	01-4061	Washer
12	10-3201-0-001	Trimmer Wedge
13	01-2050	Screw
14	10-3217	Cord Guide
15	10-3206	Actuator
16	01-2194	Set Screw
17	01-7435-1	Collar
18	01-2077	Screw
19	01-3005	Nut
20	01-5038	Spring
21	10-3090	Clamp
22	01-2024	Screw
23	01-7438	Split Bushing
24	10-3203	Stop
25	10-3202-0-050	Lever Asm
26	01-3016	Nut
27	14-5019	Shaft
28	See Above	Main Cam
29	14-3216	Wedge Plate CB

Additional parts special to Cord Trim Models listed in the (basic) Illustrated Parts Section of this manual.

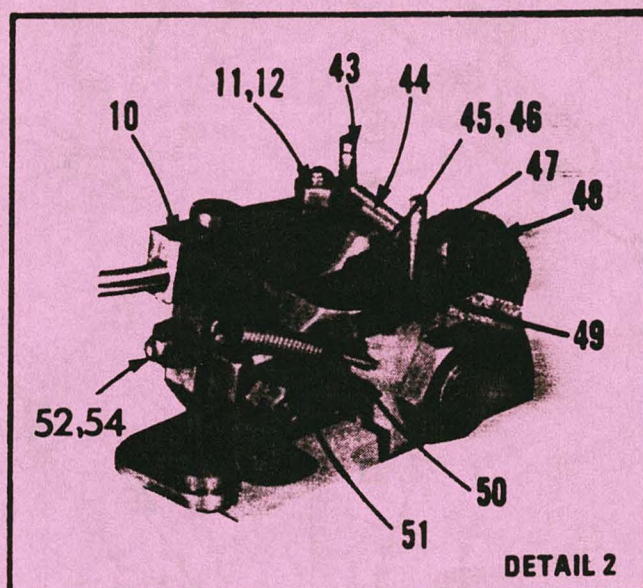
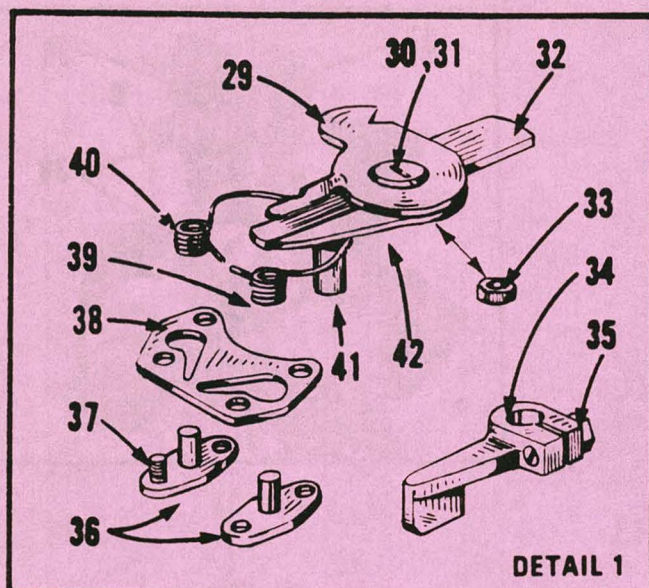
PART NO.	DESCRIPTION	PAGE	DET.
10-1074	Pivot Stud, R.H.	32	18
10-2001-0-001	Cover, R.H.	1	36
10-2012-0-001	Switching Lever	5	6
10-2016-0-984	Switch T/O Wedge	13	33
10-3015-2	Sector Lever	31	12



See Detail 1

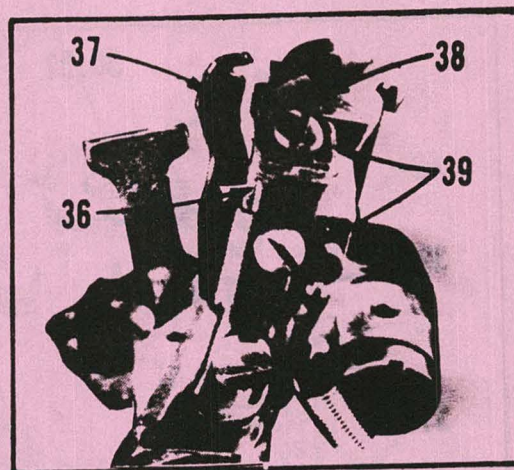
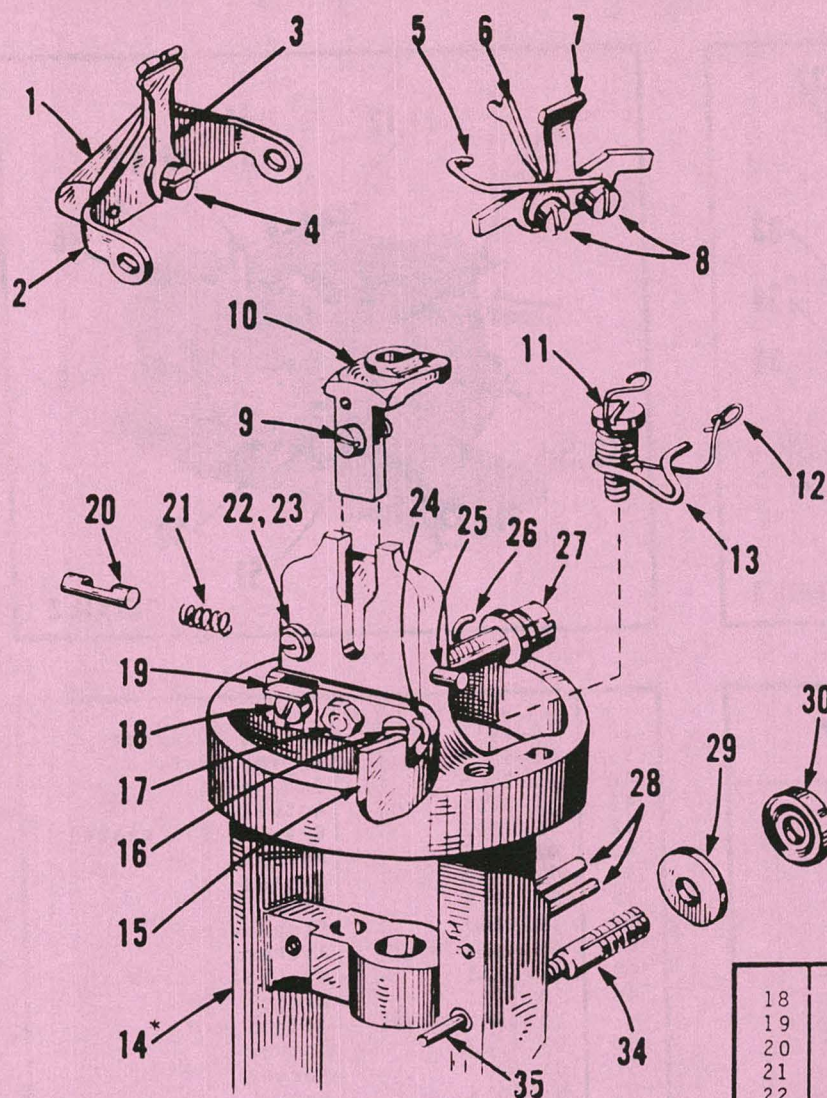


STYLE NO.	DESCRIPTION	CLAMP ARMS		CLAMP FEET		MATS	
		LEFT (6)	RIGHT (16)	LEFT (5)	RIGHT (4)	LEFT (23)	RIGHT (21)
14-033/034/038	CT-5/8"	10-2050-2-706	10-2046-2-707	10-2050-0-771	10-2046-0-772	10-2048-0-014	10-2044-1-014
14-035/037	CT-3/4" RE	10-2050-2-707	10-2046-2-708	10-2050-0-772	10-2046-0-773	10-2048-0-015	10-2044-1-015
14-036/039	CT-7/8" RE	10-2050-2-708	10-2046-2-709	10-2050-1-753	10-2046-1-753	10-2048-0-016	10-2044-1-016



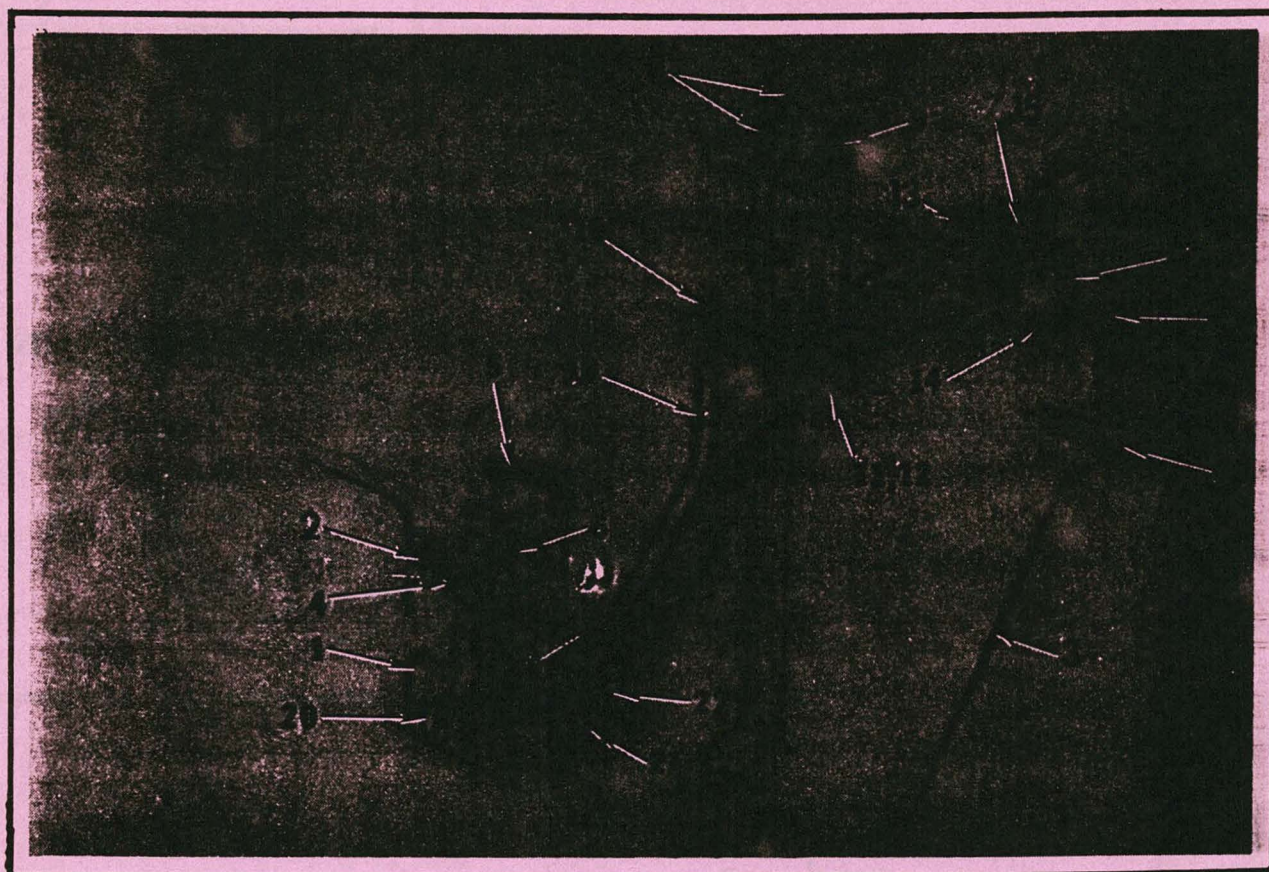
DET.	PART NUMBER	DESCRIPTION
1	01-2075	Screw
2	10-2047-0-300	Clamp Plate, L.H.
3	10-2060-1	Cloth Gauge, L.H.
4	See Chart	Foot, R.H.
5	See Chart	Foot, L.H.
6	See Chart	Arm, L.H.
7	01-1137	Screw
8	10-2212-1	Hold Down Finger, L.H.
9	01-2054	Screw
10	10-2211	Finger Holder, L.H.
	10-2211-0-001	Finger Holder, R.H.
11	10-2214	Adj. Screw
12	01-3001	Nut
13	10-2049-0-300	Block, L.H.
14	10-2051-2	Stud
15	10-2052	Roll
16	See Chart	Arm, R.H.
18	10-2045-0-300	Block, R.H.
19	10-2212-0-001	Hold Down Finger, R.H.
20	10-2059-1-300	Cloth Gauge, R.H.
21	See Chart	Mat, R.H.
22	05-0360	Cap
23	See Chart	Mat, L.H.
24	10-2210	Cover Plate
25	10-2202	Latch
26	01-5034	Spring
27	01-2053	Screw
28	10-2035	Clamp Spreading Screw
29	10-2207	Upper Shear
30	10-2208-1	Pivot Screw
31	01-5062	Spring Washer
32	10-2206	Lower Shear
33	01-3021	Nut
34	10-2205	Lower Lever
35	01-2074	Screw
36	10-2218	Spring Mount
37	01-2104	Screw

38	10-2217	Spring Retainer
39	01-5064	Spring, R.H.
40	01-5065	Spring, L.H.
41	10-2204	Actuator
42	10-2203	Bearing (in plate)
43	01-6015	Anchor
44	01-5033	Spring
45	10-2215	Stop
46	10-1203	Stop Screw
47	01-6831-0-002	Anchor
48	01-1031	Shoulder Screw
49	10-1201	Wedge, L.H.
	10-1201-0-001	Wedge, R.H.
50	01-6002	Anchor
51	01-5037	Spring
52	01-3016	Nut
53	01-4038	Washer
54	01-2076	Adj. Screw
55	10-2025	Bearing
56	01-2046	Screw
57	13-2001-1	Bedplate
58	14-2043-0-301	Clamp Plate, R.H.
59	10-2002	Index
60	01-2050	Screw
61	10-2018-1	Length Gauge
62	01-2068-1	Screw



DET.	PART NUMBER	DESCRIPTION
1	10-4210	Cord Weight
2	10-4208	Cord Pull Back
3	10-4209	Flat Spring
4	01-2136	Screw
5	10-4213	Check Wire
6	10-4212	Thread Guide
7	10-4010-2	Needle Guard
8	01-2073	Screw
9	01-2056	Screw
10	14-4012-0-013	Throat Plate, Reg.
	10-4012-1-014	Throat Plate, Wide
	10-4012-1-015	Throat Plate, Narrow
	14-4012-0-030	Throat Plate CBCT
11	10-4215	Shoulder Screw
12	01-5043	Spring
13	10-4211	Stop Wire
14	14-4001-0-301	Race
15	10-4200	Trimmer Cam
16	01-2075	Screw
17	01-3021	Nut

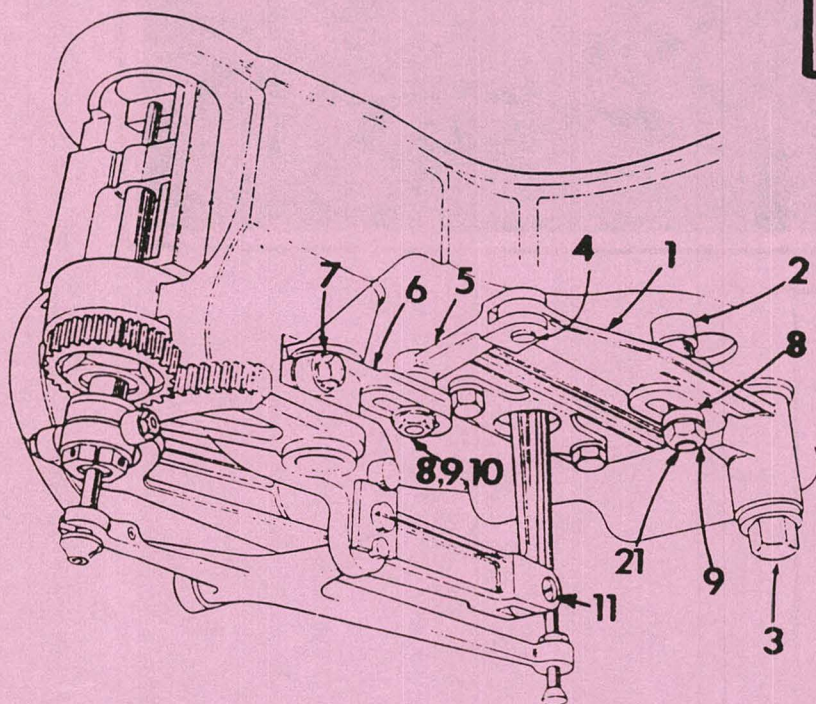
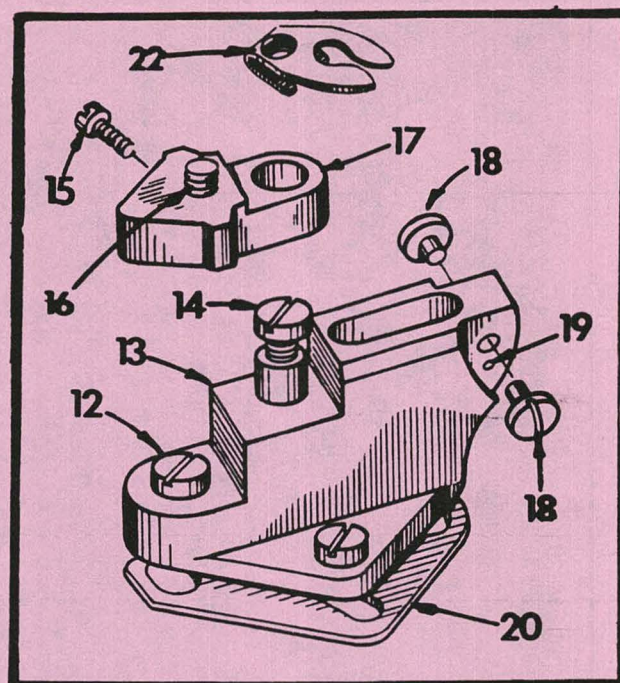
18	01-2008	Screw
19	10-4220	Adj. Stop
20	10-4217	Plunger
21	01-5044	Spring
22	01-2318	Screw
23	01-4015	Washer
24	01-6001	Anchor
25	01-6010	Pin
26	01-6002	Anchor
27	14-4201	Stud
28	01-6018	Pin
29	10-4032	Disc
30	10-4031	Cup Disc
31	10-4221	Release Washer
32	01-5059	Spring
33	10-4030-0-300	Nut
34	10-4218	Stud
35	10-4219	Release Rod
36	10-1198-1	Knife Holder
37	10-1703-3	Thread Retainer
38	14-1197-0	Knife
39	01-2667	Screw



DET.	PART NUMBER	DESCRIPTION
1	13-4205	Draw Off Lever
2	01-6013	Stop Pin
3	13-3001	Cam Case
4	01-5042	Spring
5	10-4206	Loop Puller
6	01-2081	Screw
7	01-7632-1	Bushing
8	01-2059	Screw
9	13-2200-1	Bracket
10	10-2201-2	Stud
11	01-3001	Nut
12	01-4011	Washer
13	01-7631-1	Bushing
14	13-3121	Stop
15	01-2886-0-002	Shoulder Screw
16	01-6011	Anchor
17	01-5039	Spring
18	01-2241-0-001	Screw
19	13-3118-3	Actuator
20	01-1051-1	Screw
21	13-4207-1	Pivot Block
22	01-2144	Screw
23	01-2038	Screw
24	01-1774	Screw

KNIFE HOLDER & SECTOR LEVER

DET.	PART NUMBER	DESCRIPTION
1	10-3015-0-250	Sector Lever
2	10-3018	Roll
3	10-3018-0-350	Roll (CB)
4	10-3016	Stud
5	10-3026	Stud
	10-3012	Link



MODELS	SIZES & STYLE	P/N
CORD TRIM CUTTING STEEL		10-1069-
CT-CA-9/16"-RE	9/16"-CT	0-019
CT-CA-5/8"-RE	5/8"-CT	0-020
CT-CA-5/8"-LE	5/8"-CT	0-020
CT-CA-3/4"-RE	3/4"-CT	0-021
CT-CA-7/8"-RE	7/8"-CT	0-022
CORD TRIM KNIVES		10-3072-
CT-CA-9/16"-RE	9/16"-RE	0-058
CT-CA-5/8"-RE	5/8"-RE	0-059
CT-CA-5/8"-LE	5/8"-LE	0-067
CT-CA-3/4"-RE	3/4"-RE	0-060
CT-CA-7/8"-RE	7/8"-RE	0-062

6	10-3011	Lever
7	01-2016	Screw
8	01-4005	Washer
9	01-3013	Nut
10	10-3013	Stud
11	14-3006-0-150	Looper Rocker (CA)
	14-3006-0-200	Looper Rocker (CB)
12	01-2038	Screw
13	10-3058-1-300	Knife Holder
14	01-2039	Screw
15	01-2001	Screw
16	10-3218	Stud
17	10-3067-2-253	Spreading Block
	10-3067-4-254	Spreader Block (CB)
18	01-2102	Screw
19	01-6034	Pin
20	10-3075-1-992	Shim, .016"
	10-3075-1-993	Shim, .005"
21	10-3017	Stud
22	14-3074-0-012	Cloth Lifter CB



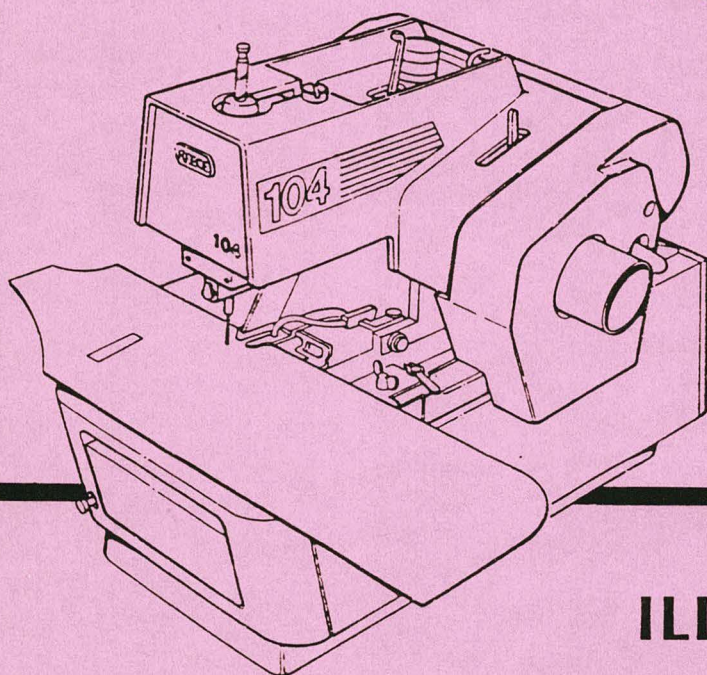
ADJUSTABLE
CUT BEFORE/CUT AFTER

BUTTONHOLE MACHINES

series 104

MODEL

AF·CB/CA·R·RE

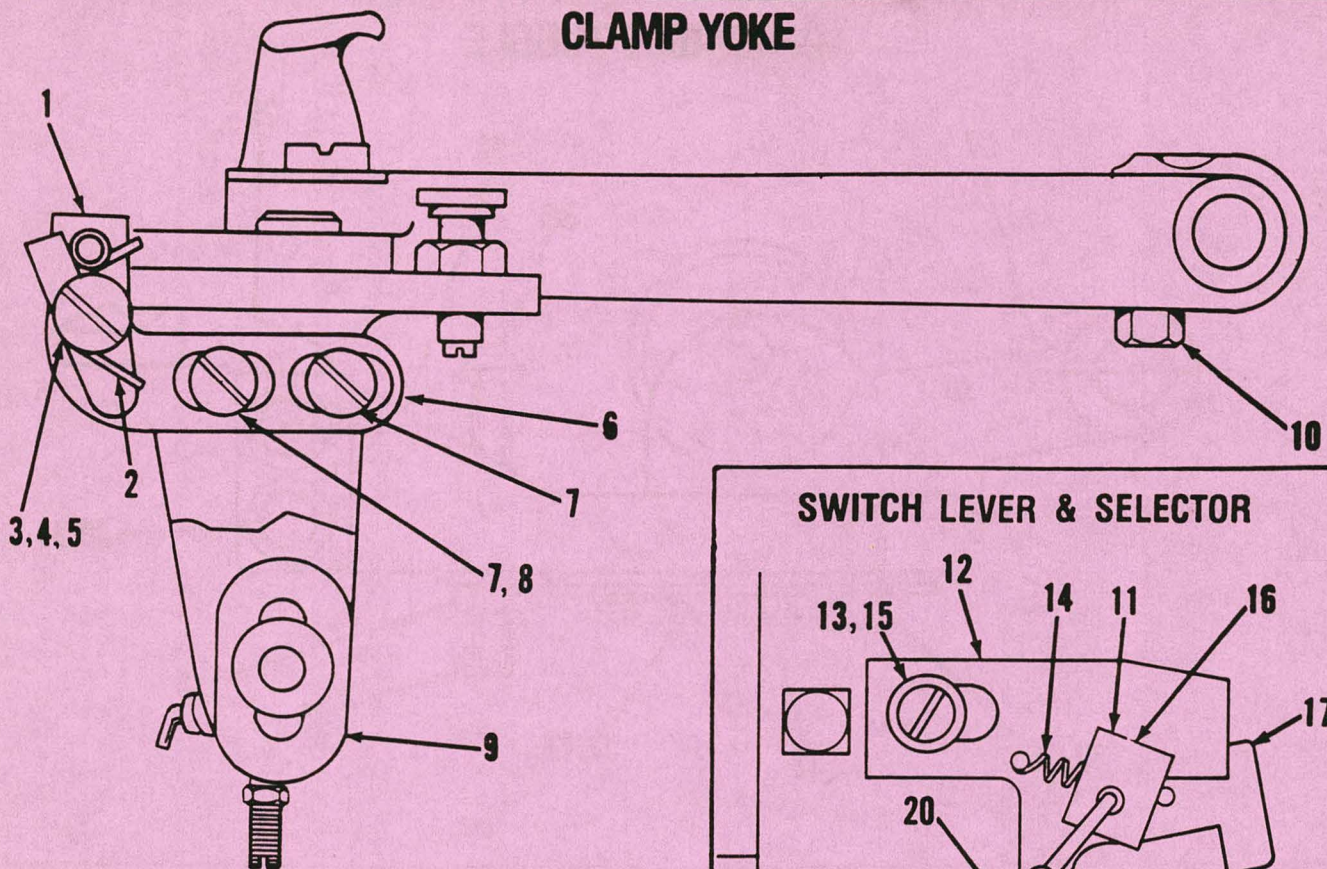


ILLUSTRATED PARTS

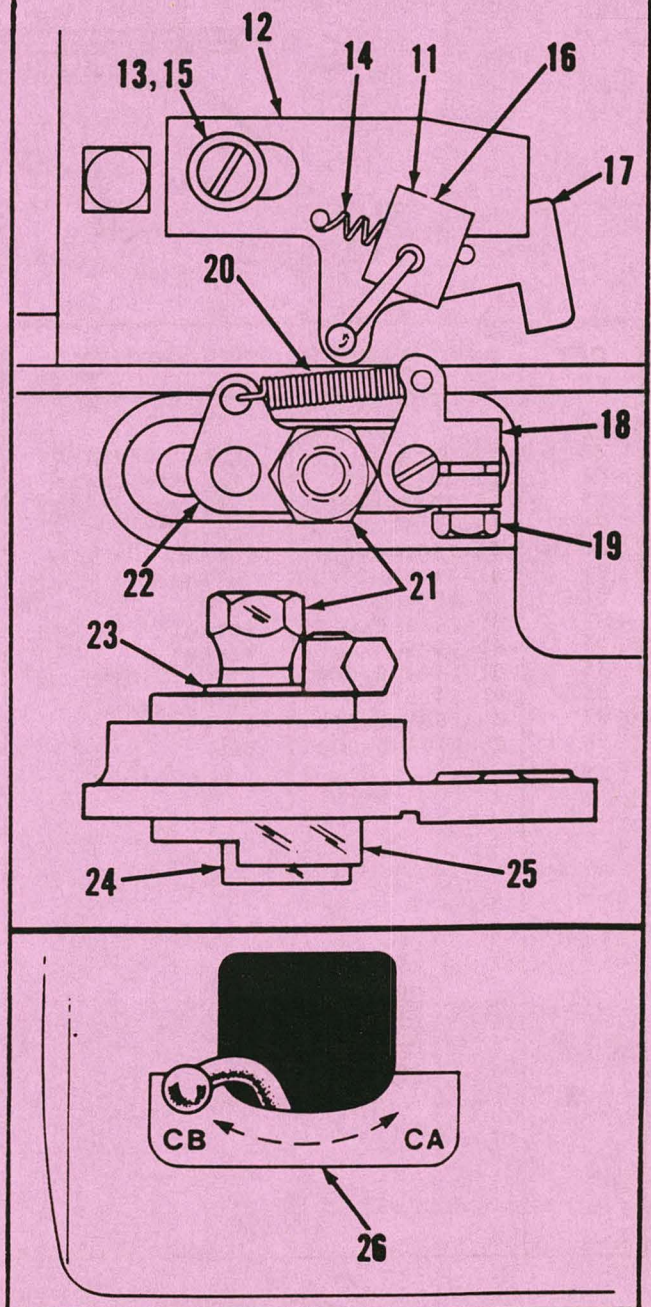
This section contains parts special to Adjustable Cut Before/Cut After models. All other parts are standard and should be found in the Adjustable Flybar (basic) Section of this manual.



CLAMP YOKE

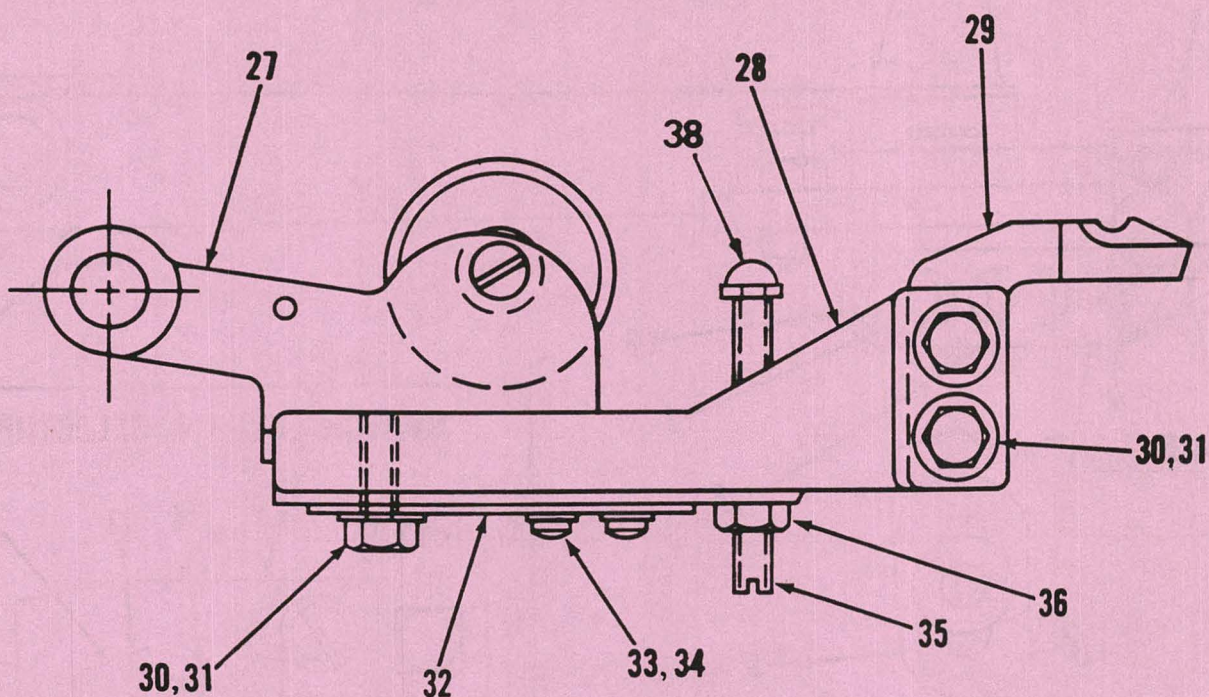


SWITCH LEVER & SELECTOR



DET.	PART NUMBER	DESCRIPTION
1	10-2075	Latch
2	01-5475	Spring
3	01-1457	Screw
4	01-4065	Washer
5	01-3005	Nut
6	10-2074	Bracket
7	01-2344	Screw
8	13-2088	Eccentric Nut
9	13-2023-1-050	Toggle Bracket
10	01-1686-0-401	Screw
11	13-1246-1	Yoke
12	13-1180	Block
13	01-2025	Screw
14	01-5604	Spring
15	01-4522	Washer
16	01-2441-0-001	Set Screw
17	13-1181	Latch
18	10-2073	Latch
19	01-2386	Screw
20	01-5473	Spring
21	10-2008	Nut
22	10-2072	Plate
23	01-4063	Washer
24	10-2071	Lever
25	10-2070-1	Block

ADJUSTABLE TOGGLE



DET.	PART NUMBER	DESCRIPTION
26	13-0518	DECAL, CB/CA
27	13-3023	Clamping Lever
28	13-3022-1-023	Extension
29	13-3131	Tip
30	01-1601-0-001	Screw
31	01-4445	Washer
32	13-3094-2	Slide
33	01-2241-0-002	Screw
34	01-4029	Washer
35	01-1649-0-004	Pivot Screw
36	01-3415	Nut
37	01-1601-0-007	Screw
38	05-0144-0-000	Cap

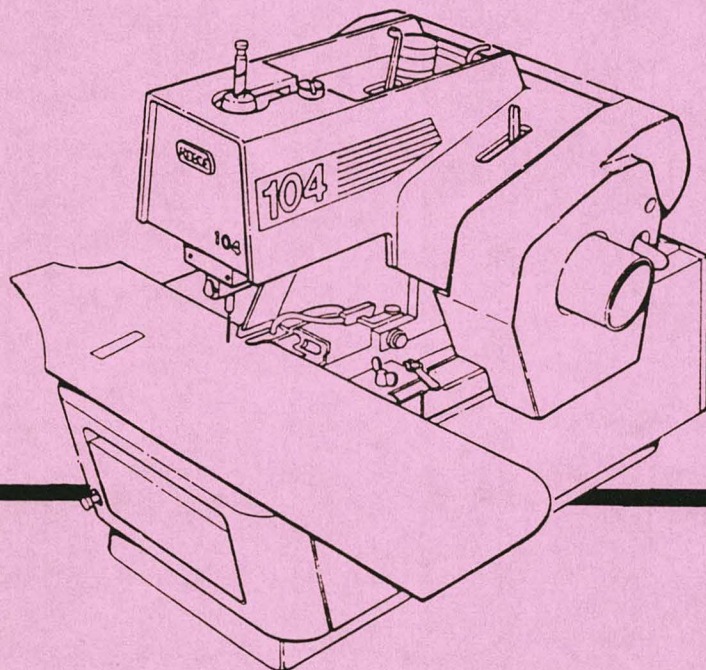
Additional parts special to CB/CA Models listed in the basic illustrated Parts Section of this manual.

PART NUMBER	DESCRIPTION
10-1071-0-023	Cutting Cam Follower (See Page 32, Det. 20)
10-2044-0-002	Clamp Mat R.H. (See Page 1, Det. 13)
10-2048-0-002	Clamp Mat L.H. (See Page 1, Det. 19)
14-4011-0-200	Spreader Wedge (See Page 28, Det. 2)
10-4012-0-004	Throat Plate (See Page 28, Det. 1)
13-2021-0-023	Clamping Wedge (See Page 2, Det. 24)
13-3061-0-300	Clamping Wedge (See Page 3, Det. 35)
10-2021-0-000	Toggle Lever (See Page 2, Det. 22)
10-3061-0-300	Clamping Wedge (See Page 3, Det. 33)



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OILING
SYSTEM

ILLUSTRATED PARTS

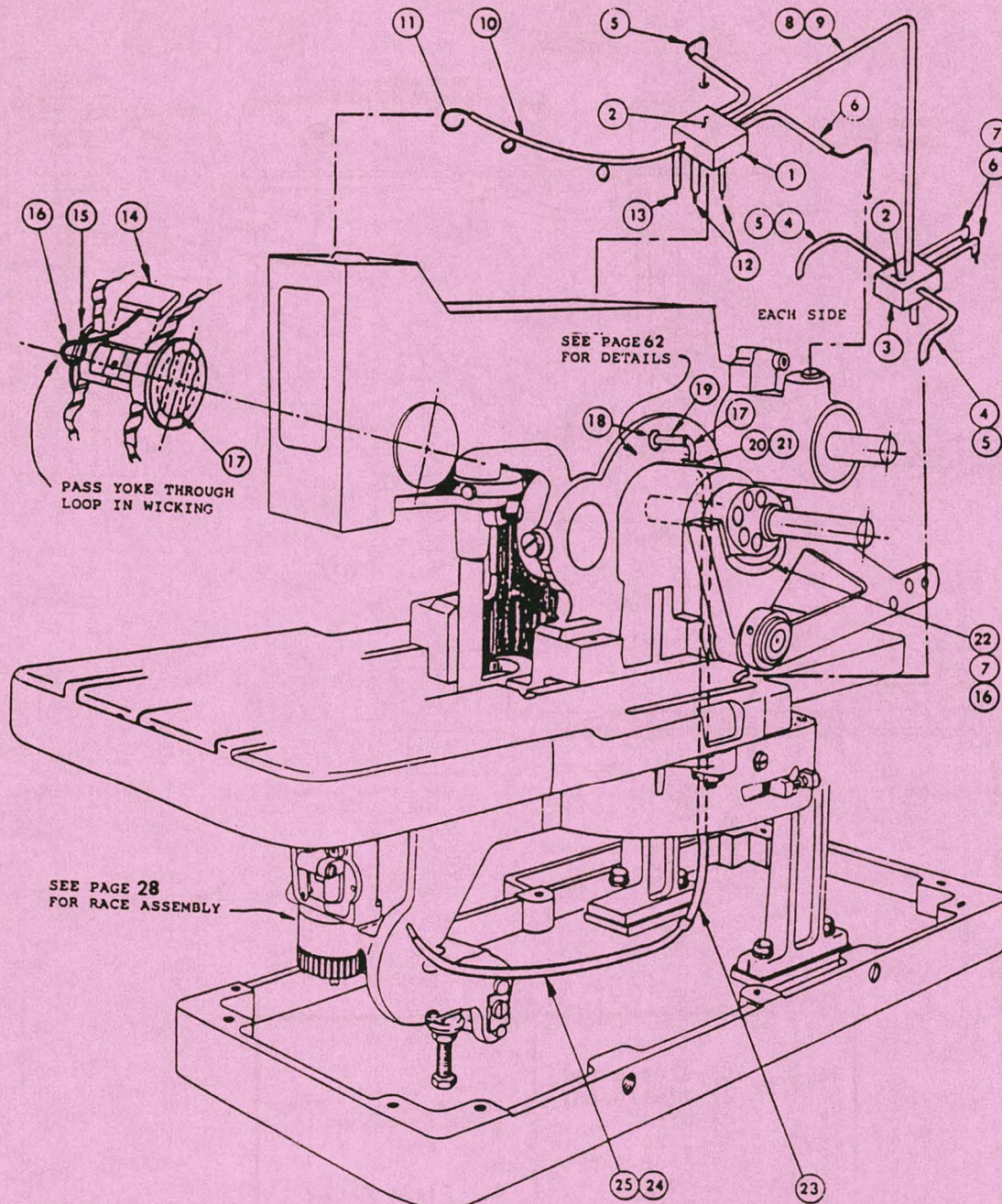


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MACHINES
Series 104

CLING
EYEBROW

OILING SYSTEM

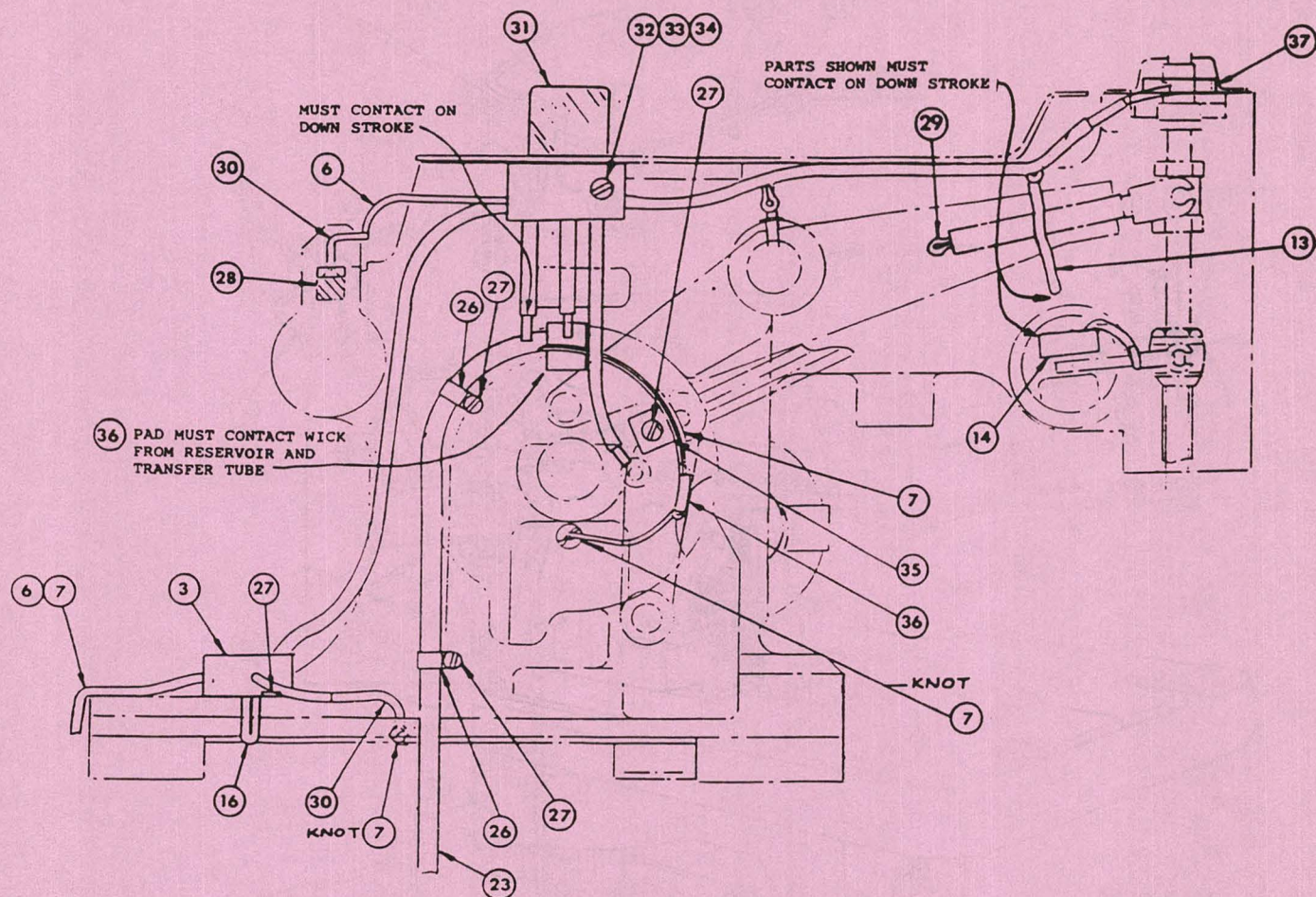
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DET.	PART NUMBER	DESCRIPTION
1	14-1020-0-100	Oil Reservoir-Upper
2	14-1003	Oil Pad (2 ea.) Reservoir
3	14-1008	Oil Reservoir-Lower
4	04-2040-0-003	Tubing
5	07-0401-0-007	Wick
6	04-2040-0-005	Tubing
7	07-0401-0-009	Wick
8	07-0059-1-008	Tubing
9	04-0514	Wick (2 inches)
10	14-1009	Tubing
11	07-0400-0-016	Wick
12	07-0400-0-005	Wick

13	07-0400-0-007	Wick
14	14-1015	Oil Pad-Vibrator Barrel
15	07-0401-0-004	Wick
16	07-0400-0-003	Wick
17	07-0400-0-004	Wick
18	14-1010	Ring Insert
19	14-1002-0-003	Oil Tube
20	05-1105	Oil Inlet
21	14-1023	Ring Insert
22	14-1029	Oil Pad-Cam Follower
23	14-1005	Oil Transfer Tube
24	07-0059-1-010	Tubing
25	07-0400-0-024	Wick

OILING SYSTEM



26	07-0204-0-001	Clip
27	01-2241-0-001	Screw
28	04-0514	Wick (3 inches)
29	14-1030	Tube Asm
30	07-0400-0-010	Wick
31	14-1018	Oil Sight Gauge
32	01-2811	Screw
33	01-3401	Nut
34	01-4029	Washer
35	14-1006	Oil Pad Retainer
36	14-1007	Oil Pad-Stitch Cam
37	14-1013	Oil Pad-Needle Bar



AUTO TRIM

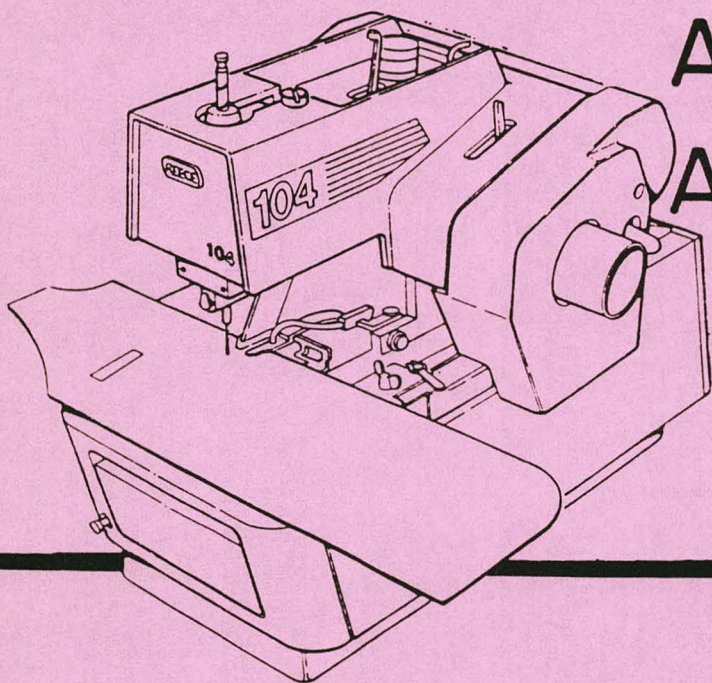
BUTTONHOLE MACHINES

series 104

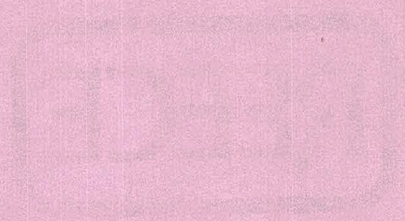
MODELS

AF·CA·R·RE·AT

AF·CB·R·RE·AT



ILLUSTRATED PARTS



BITTOLINI
MACHINES

Series 104

MODEL

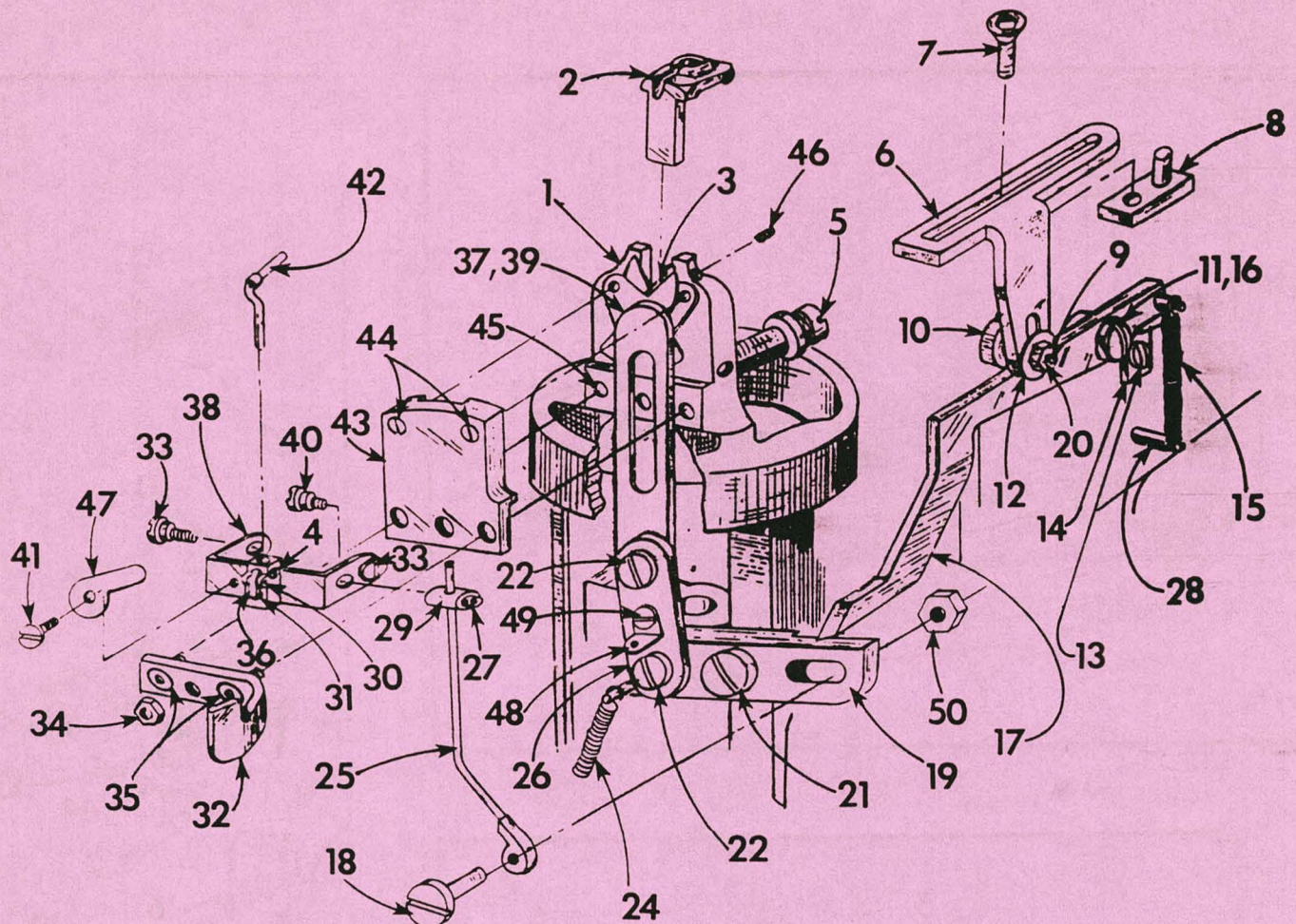
ATCO REAT
ATCO REAT

MADE IN ITALY

ILLUSTRATION

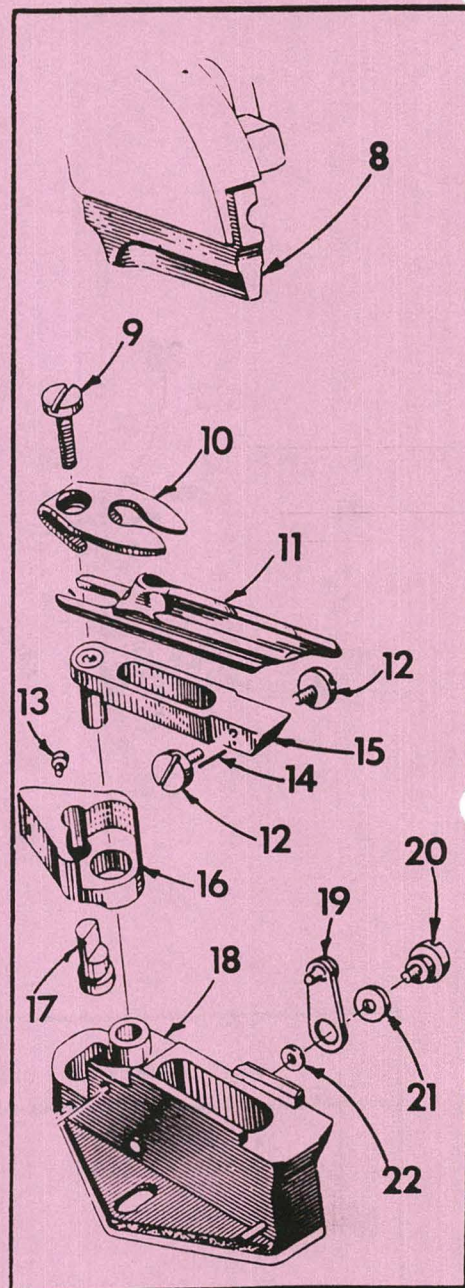
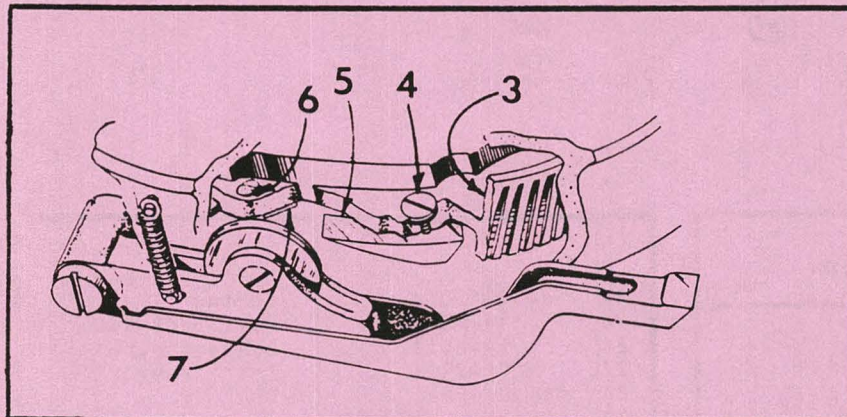
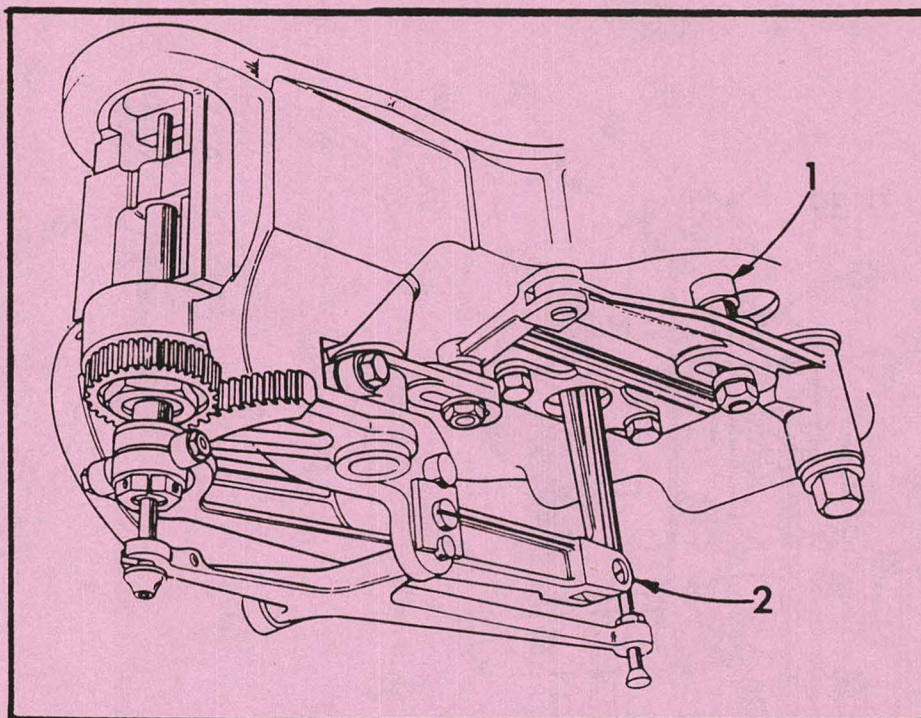
PARTS SPECIAL TO AUTO TRIM

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DET	PART NUMBER	DESCRIPTION
1	14-5001-0-501	Race
2	14-4012-0-014	Throat Plate
3	14-5008	Cutters
4	01-2441	Set Screw
5	14-4201	Stud
6	14-5013	Actuator Bracket
7	01-2583	Screw
8	14-5014	Slide Block
9	01-1567-0-000	Screw
10	01-7058-0-000	Roll
11	01-2649	Screw
12	01-4011	Washer
13	01-2241-0-001	Screw
14	13-3121	Stop
15	01-5039	Spring
16	14-5029	Bushing
17	14-5017	Actuator
18	01-1440	Screw
19	14-5010-0-050	Pivot Link Asm.
20	01-3001	Nut
21	01-1785	Screw
22	01-1130	Screw

24	01-5054	Spring
25	14-5027-1	Pull Back Rod
26	14-5011	Connecting Link
27	01-2515	Set Screw
28	01-6011	Pin
29	14-5009	Pivot
30	01-6600	Pin
31	01-5662	Spring
32	14-4200	Trimmer Cam
33	01-1140	Screw
34	01-3021	Nut
35	01-2659	Screw
36	14-5021	Cord Stop
37	01-4096	Spring Washer
38	14-5020-1	Guide Block Asm
39	14-5006	Cutter Link
40	01-1141	Screw
41	01-2667	Screw
42	14-5023-1	Guide Tube Reg.
43	14-5005	Guide Block
44	01-1139-1	Stud
45	01-7636-0-002	Heli-Coil
46	01-2666-0-001	Set Screw
47	14-5033	Guide Plate
48	14-5034	Cord Guide
49	01-1733-0-301	Screw
50	01-3426	Nut

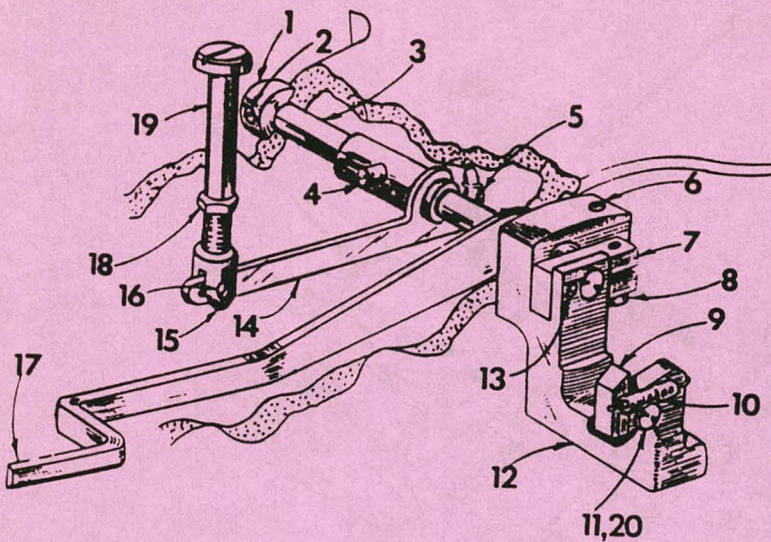


DET.	PART NUMBER	DESCRIPTION
1	10-3018	Roll
2	14-3006-0-150	Looper Rocker C.A.
	14-3006-0-200	Looper Rocker C.B.
3	14-3064-0-001	Main Cam C.A.
	14-3064-1-027	Main Cam C.B.
4	01-2347	Screw
5	10-3061-0-300	Clamping Wedge
6	01-2054	Screw
7	10-3200	Unclamping Wedge
8	See Pg 33	Cutting Steel
9	01-2039	Screw
10	10-3074-0-011	Cloth Lifter (C.B.)
11	14-3072-0-024	Cutting Knife R.E.
	14-3072-0-025	Cutting Knife N.E.
	14-3072-0-009	Cutting Knife C.B.
12	01-2102	Screw

13	01-2001	Screw
14	01-6036	Pin
15	14-3071	Knife Pad
16	10-3067-3-253	Spreading Block C.A.
	10-3067-4-254	Spreading Block C.B.
17	10-3218	Stud
18	14-3070	Knife Holder
19	01-5173	Spring
20	01-1130	Screw
21	01-4003	Washer
22	01-4029	Washer

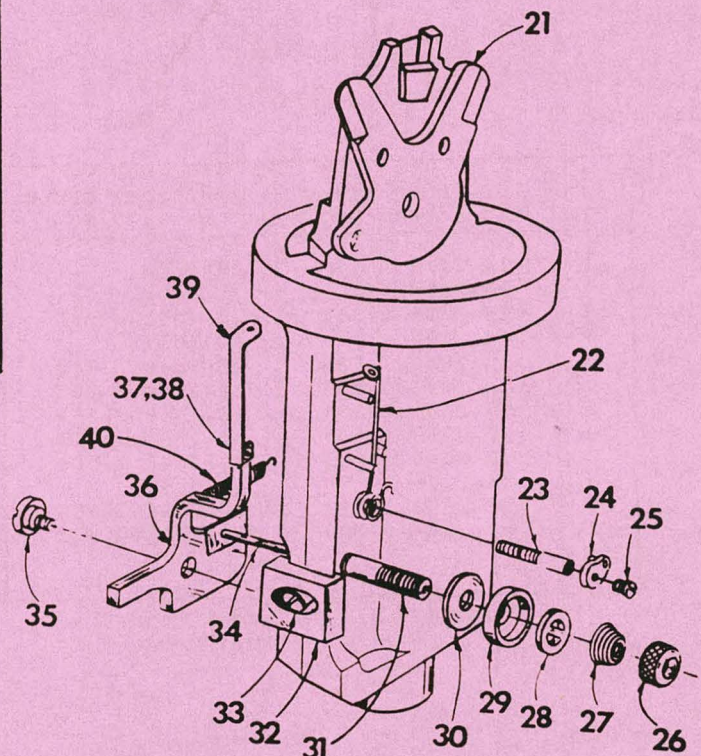
PARTS SPECIAL TO AUTO TRIM

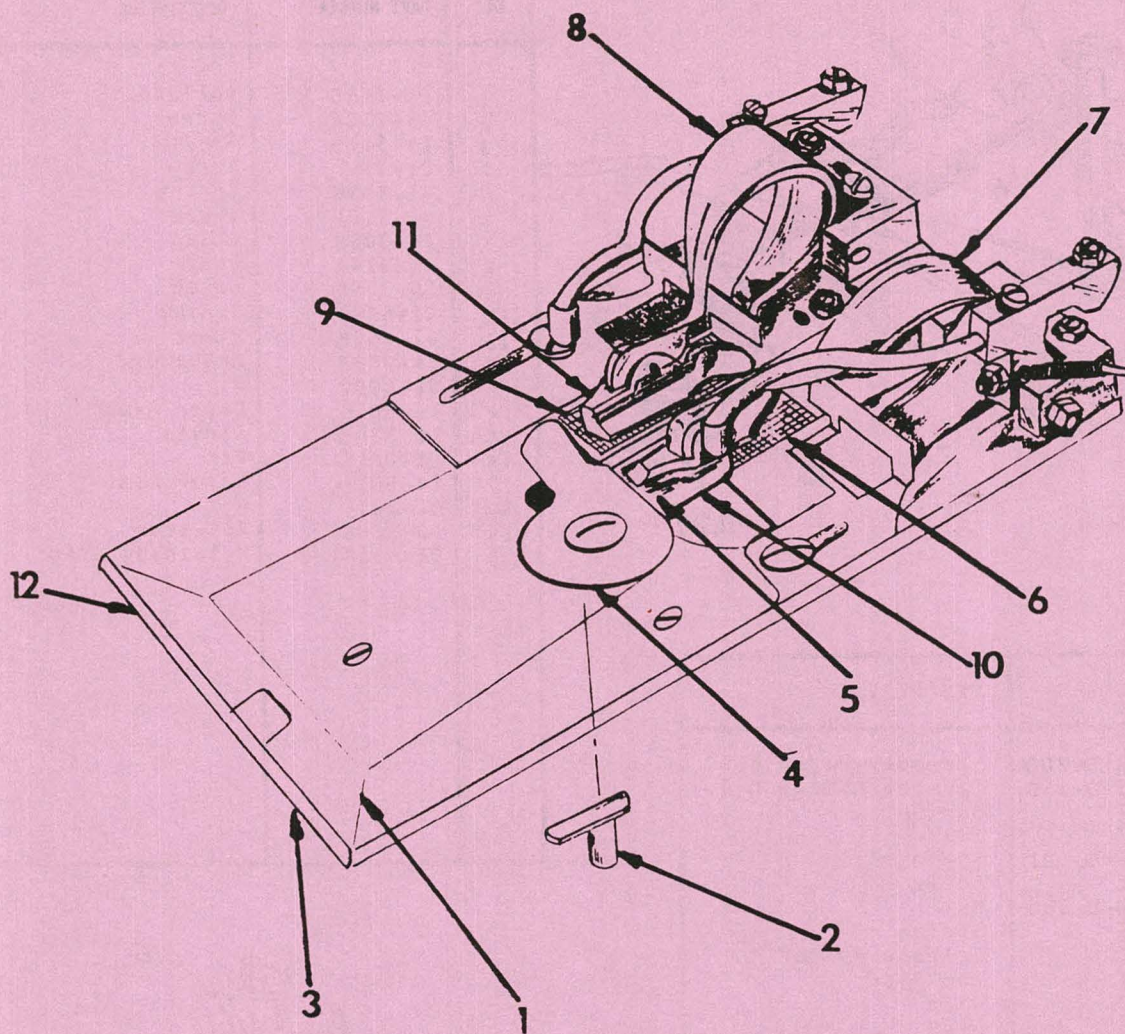
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DET.	PART NUMBER	DESCRIPTION
1	01-7435-1	Collar
2	01-2194	Screw
3	14-5019	Shaft
4	01-2563	Screw
5	01-5038	Spring
6	01-2171	Screw
7	14-3088	Clamp
8	01-2144	Screw
9	10-3089-2	Latch
10	01-5433	Spring
11	01-6528	Pivot
12	14-3087	Actuator
13	01-6002	Pin
14	14-5016	Lever Asm
15	10-3205	Clevis
16	01-6015	Pin
17	14-5015	Lever Asm
18	01-3016	Nut
19	10-3206	Actuator
20	01-6368	Retaining Ring

DET.	PART NUMBER	DESCRIPTION
21	14-4011-0-200	Spreader Wedge C.B.
	14-4011-0-150	Spreader Wedge C.A.
22	01-5027	Spring
23	14-4037	Stud
24	10-4036-0-001	Spring Arm
25	01-2081	Screw
26	10-4030-0-300	Nut
27	01-5059	Spring
28	10-4221	Release Washer
29	10-4031	Cup Disc
30	10-4032	Disc
31	14-4218	Stud
32	14-5026	Pivot Block
33	01-2144	Screw
34	14-4219	Release Rod
35	01-1051-1	Screw
36	14-5012	Lever
37	01-2411	Screw
38	01-3426	Nut
39	14-5025-2	Draw Off
40	01-5033	Spring





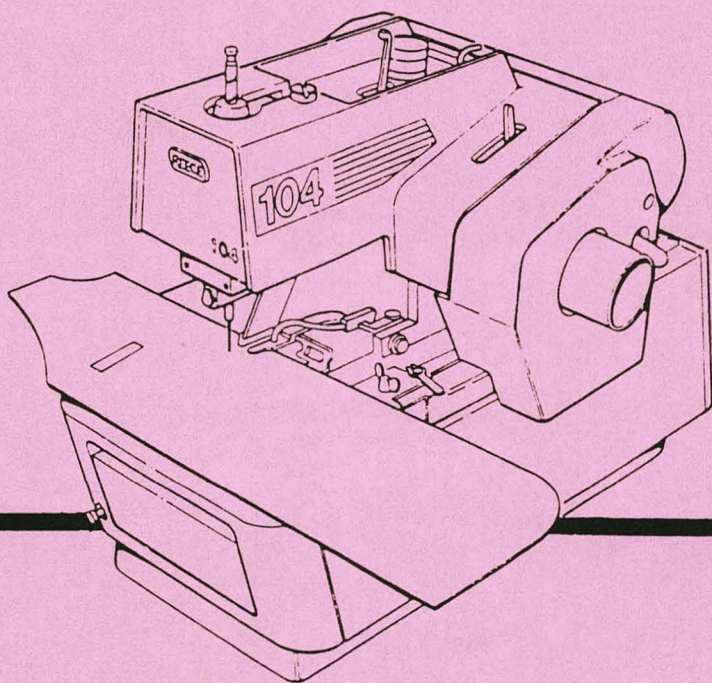
DET.	P/N LONG STYLE 7/8" to 1 1/4"	P/N SHORT STYLE 1/2" to 7/8"	DESCRIPTION
1	14-2210	14-2211	Cover Plate
2	10-2204	10-2204	Actuator
3	14-2043-0-301	14-2043-0-301	Clamp Plate- R.H.
4	14-2207	14-5030	Upper Shear
5	10-2046-1-756	10-2046-1-753	Clamp Foot - R.H.
6	14-2044-0-027	14-2044-0-028	Clamp Mat - R.H.
7	10-2046-2-701	10-2046-2-704	Clamp Arm - R.H.
8	10-2050-2-701	10-2050-2-713	Clamp Arm - L.H.
9	10-2048-0-001	10-2048-0-001	Clamp Mat - L.H.
10	14-2206	14-5031	Lower Shear
11	10-2050-1-758	10-2050-1-752	Clamp Foot - L.H.
12	10-2047-0-300	10-2047-0-300	Clamp Plate- L.H.

NOTE: See Pages 3/54 & 3/55
For Other Details.



BUTTONHOLE MACHINES

series 104



Section 4

PARTS INDEX



WILLIAMS
SEWING
MACHINES

INDEX

PARTS INDEX

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PART NUMBER	PAGE	DET.
01-1000		
01-1006	28	12
01-1006	29	10
01-1020-1	01	15
01-1020-1	04	08
01-1021	04	04
01-1023	32	02
01-1028	12	15
01-1031	55	48
01-1051	67	35
01-1051-1	57	20
01-1076	03	39
01-1095	11	28
01-1112	24	13
01-1113	24	24
01-1114	24	19
01-1114	51	11
01-1130	33	09
01-1130	65	22
01-1130	66	20
01-1131	33	19
01-1137	01	22
01-1137	55	07
01-1139-1	65	44
01-1140	65	33
01-1141	65	40
01-1432	26	08
01-1440	65	18
01-1447	26	04
01-1453	37	09
01-1457	59	03
01-1470	09	27
01-1480	37	14
01-1567	65	09
01-1568-0-001	09	33
01-1601-0-001	60	30
01-1601-0-007	60	37
01-1613-0-003	03	44
01-1649-0-004	60	35
01-1658-0-001	45	21
01-1663-0-004	40	14
01-1686-0-401	02	12
01-1686-0-401	39	14
01-1686-0-401	59	10
01-1694-0-509	45	13
01-1728-0-401	37	06
01-1728-0-402	37	39
01-1728-0-402	45	28
01-1728-0-406	37	38
01-1728-0-406	39	03
01-1733-0-301	65	49
01-1733-0-404	19	30
01-1739-0-101	39	19
01-1774	57	24
01-1781	12	11
01-1785	65	21

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01-2001	24	20
01-2001	29	07
01-2001	33	18
01-2001	51	10
01-2001	58	15
01-2001	66	13
01-2004	07	09
01-2006	26	27
01-2006	52	14
01-2007	25	05
01-2008	09	21
01-2008	21	22
01-2008	56	18
01-2011	21	01
01-2012	25	25
01-2013	32	21
01-2014	31	01
01-2015	01	18
01-2016	17	02
01-2016	31	08
01-2016	58	07
01-2017	15	07
01-2022	12	01
01-2024	06	07
01-2024	28	20
01-2024	53	22
01-2025	59	13
01-2027	07	20
01-2028	12	18
01-2028	31	03
01-2030	03	38
01-2030	03	40
01-2031	26	20
01-2032-1	05	16
01-2033	07	18
01-2035	09	25
01-2038	32	04
01-2038	57	23
01-2038	58	12
01-2039	24	16
01-2039	32	05
01-2039	33	02
01-2039	51	16
01-2039	58	14
01-2039	66	09
01-2041	05	07
01-2041	12	07
01-2041	27	04
01-2042	11	16
01-2043	26	06
01-2044	02	20
01-2045	02	14
01-2046	02	09
01-2046	55	56

PART NUMBER	PAGE	DET.
01-2047	02	11
01-2050	01	35
01-2050	53	13
01-2050	55	60
01-2051	01	04
01-2052	01	06
01-2053	01	14
01-2053	23	01
01-2053	52	09
01-2053	55	27
01-2054	53	07
01-2054	55	09
01-2054	66	06
01-2056	28	37
01-2056	56	09
01-2059	28	09
01-2059	57	08
01-2063	25	23
01-2066	06	15
01-2067	07	21
01-2068-1	55	62
01-2071	05	03
01-2073	29	12
01-2073	56	08
01-2074	55	35
01-2075	06	01
01-2075	09	19
01-2075	21	33
01-2075	55	01
01-2075	56	16
01-2076	55	54
01-2077	30	12
01-2077	53	18
01-2079	14	19
01-2079	19	18
01-2079	26	16
01-2079	53	04
01-2081	28	15
01-2081	29	15
01-2081	57	06
01-2081	67	25
01-2084	06	06
01-2085	17	13
01-2088	26	28
01-2096-0-001	41	31
01-2100	21	24
01-2102	33	05
01-2102	58	18
01-2102	66	12
01-2104	55	37
01-2111	01	11
01-2115	23	16
01-2128	07	23
01-2128	09	43

PART NUMBER	PAGE	DET.
01-2130	13	32
01-2131	19	02
01-2131	30	06
01-2136	56	04
01-2144	30	17
01-2144	57	22
01-2144	67	08
01-2144	67	33
01-2146	12	25
01-2171	30	15
01-2171	67	06
01-2175	30	08
01-2190	23	19
01-2193	19	21
01-2194	30	29
01-2194	53	16
01-2194	67	02
01-2241-0-001	57	18
01-2241-0-001	62	27
01-2241-0-001	65	13
01-2241-0-002	60	33
01-2246-0-001	39	07
01-2247	24	04
01-2247	37	23
01-2247	43	16
01-2247-0-002	23	04
01-2247-0-002	35	06
01-2247-0-002	37	33
01-2249	12	06
01-2260-0-004	39	12
01-2260-0-603	39	27
01-2261-0-002	19	25
01-2312	01	33
01-2318	29	22
01-2318	56	22
01-2324	17	08
01-2328	02	05
01-2328	11	23
01-2328	45	25
01-2329	11	20
01-2343	11	37
01-2343	19	38
01-2344	12	20
01-2344	59	07
01-2347	03	34
01-2347	53	10
01-2347	66	04
01-2361	29	18
01-2362	24	23
01-2368	42	09
01-2386	59	19
01-2391	12	23
01-2392	17	17

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01-2401	14	17
01-2411	67	37
01-2412	14	20
01-2419	19	09
01-2441	65	04
01-2441-0-001	59	16
01-2442-0-001	45	20
01-2444	40	09
01-2444	42	12
01-2481	43	10
01-2492	23	17
01-2509	24	10
01-2515	65	27
01-2526	42	16
01-2539	02	04
01-2563	67	04
01-2568	13	30
01-2583	65	07
01-2599-0-003	19	37
01-2607	40	03
01-2616	41	37
01-2640	40	22
01-2640	46	10
01-2649	65	11
01-2659	65	35
01-2666-0-001	65	46
01-2667	29	28
01-2667	56	39
01-2667	65	41
01-2680	43	11
01-2712	14	05
01-2715	42	03
01-2732-0-300	37	17
01-2732-0-300	39	05
01-2766	43	03
01-2782-0-002	35	26
01-2811	62	32
01-2816	39	25
01-2830	40	24
01-2830	45	10
01-2845	37	29
01-2849-0-002	16	04
01-2871	40	21
01-2872-0-400	35	10
01-2877	35	29
01-2877-0-003	09	41
01-2877-0-003	35	31
01-2886-0-002	06	22
01-2886-0-002	57	15
01-2886-0-006	37	37
01-2996	46	21
01-3000		
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01-3001	02	19
01-3001	24	06
01-3001	28	41

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01-3001	55	12
01-3001	57	11
01-3001	65	20
01-3005	06	27
01-3005	07	17
01-3005	11	33
01-3005	12	24
01-3005	15	06
01-3005	27	10
01-3005	30	13
01-3005	53	19
01-3005	59	05
01-3006	32	19
01-3007	02	03
01-3007	05	17
01-3007	07	05
01-3007	11	05
01-3007	14	13
01-3010	25	10
01-3011	06	16
01-3012	06	25
01-3012	21	31
01-3013	02	16
01-3013	17	10
01-3013	26	14
01-3013	31	16
01-3013	58	09
01-3014	03	42
01-3015	07	22
01-3016	01	23
01-3016	02	15
01-3016	26	19
01-3016	30	28
01-3016	53	26
01-3016	55	52
01-3016	67	18
01-3018	31	07
01-3019	12	13
01-3020	25	03
01-3021	28	04
01-3021	55	33
01-3021	56	17
01-3021	65	34
01-3025	24	08
01-3025	27	06
01-3025	29	19
01-3026	23	12
01-3028	21	28
01-3042	12	09
01-3052	23	10
01-3057	40	20
01-3059	07	13
01-3061	45	14
01-3066	42	17
01-3400	11	11
01-3401	62	33

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01-3406	40	02
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01-3426	65	50
01-3426	67	38
01-3430	42	06
01-3462	46	19
01-3549	40	12
01-3549	45	24
01-3549	46	13
01-3596	14	01
01-4000		
01-4001	07	10
01-4001	32	15
01-4002	15	04
01-4002	35	19
01-4003	06	08
01-4003	33	10
01-4003	66	21
01-4004	11	04
01-4004	40	19
01-4004	45	12
01-4005	02	17
01-4005	17	09
01-4005	26	15
01-4005	31	14
01-4005	58	08
01-4006	03	37
01-4006	05	19
01-4006	06	04
01-4006	17	14
01-4006	30	02
01-4007	11	26
01-4009-0-001	09	23
01-4010	25	01
01-4011	11	34
01-4011	57	12
01-4012	28	24
01-4013	28	27
01-4013	29	09
01-4015	29	23
01-4015	56	23
01-4018	07	19
01-4019	12	02
01-4029	33	12
01-4029	60	34
01-4029	62	34
01-4029	66	22
01-4034-0-001	21	14
01-4034-0-002	21	14
01-4034-0-003	21	14
01-4034-0-004	21	14
01-4034-0-005	21	14
01-4035	45	17
01-4038	01	24
01-4038	55	53

PART NUMBER	PAGE	DET.
01-4042	13	31
01-4043	40	04
01-4046	26	30
01-4061	03	35
01-4061	53	11
01-4063	12	10
01-4063	42	10
01-4063	59	23
01-4065	59	04
01-4067	04	02
01-4074	24	11
01-4081-0-005	21	17
01-4081-0-006	21	17
01-4081-0-008	21	17
01-4081-0-009	21	17
01-4081-0-010	21	17
01-4081-0-011	21	17
01-4081-0-012	21	17
01-4096	65	37
01-4400-0-001	40	15
01-4406	37	10
01-4411	19	26
01-4412	37	05
01-4412	39	02
01-4415	46	20
01-4422	40	01
01-4422	65	12
01-4445	45	11
01-4445	60	31
01-4461	42	05
01-4472	26	24
01-4482	09	35
01-4522	59	15
01-4528-0-006	35	11
01-4537	19	31
01-4549	37	16
01-4549	39	04
01-4571	19	28
01-4578	37	30
01-4578	40	26
01-4579	37	31
01-4579	40	27
01-4579-0-001	45	22
01-4579-0-001	46	14
01-4579-0-004	37	36
01-4581	09	40
01-4581	40	13
01-4581	45	23
01-4581	46	15
01-4672-0-001	43	17
01-4672-0-001	45	29
01-4672-0-301	37	07
01-4673	39	08
01-4701	35	02
01-4746	09	15
01-4746	35	30
01-4747	09	22

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01-4748-0-002	40	16
01-4749	40	17
01-4750	41	32
01-4751	25	26
01-4752	11	09
01-4764	09	03
01-4777	37	02
01-4781-0-701	39	13
01-4788-1	14	03
01-5000		
01-5002	24	33
01-5002	51	13
01-5003	21	20
01-5004	28	17
01-5005	25	14
01-5006	32	10
01-5007	15	03
01-5011	11	12
01-5013	02	24
01-5013	11	24
01-5014	11	22
01-5015	03	30
01-5017	09	05
01-5019	05	04
01-5020	05	10
01-5022	01	31
01-5023	04	11
01-5026	28	40
01-5027	28	26
01-5027	67	22
01-5028	28	35
01-5029	33	21
01-5033	55	44
01-5033	67	40
01-5034	55	26
01-5037	55	51
01-5038	30	14
01-5038	53	20
01-5038	67	05
01-5039	57	17
01-5039	65	15
01-5041	29	17
01-5042	57	04
01-5043	56	12
01-5044	56	21
01-5045	52	06
01-5054	26	34
01-5054	65	24
01-5055	07	07
01-5059	56	32
01-5059	67	27
01-5061	32	16
01-5061	35	23

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01-5064	55	39
01-5065	55	40
01-5088	06	13
01-5163	24	18
01-5163	51	12
01-5167	19	23
01-5172	17	16
01-5173	33	11
01-5173	66	19
01-5433	30	19
01-5433	67	10
01-5447	12	21
01-5448	13	27
01-5473	59	20
01-5475	59	02
01-5602	35	15
01-5603	24	29
01-5603	51	02
01-5604	59	14
01-5605	11	10
01-5606	14	11
01-5619	29	27
01-5620	29	11
01-5621	42	18
01-5636	19	33
01-5654	45	19
01-5662	65	31

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01-6002	28	07
01-6002	29	16
01-6002	55	50
01-6002	56	26
01-6002	67	13
01-6003	28	28
01-6005	33	15
01-6006	02	25
01-6006	05	05
01-6006	26	02
01-6006	32	12
01-6007	02	23
01-6009	52	13
01-6010	56	25
01-6011	05	09
01-6011	57	16
01-6011	65	28
01-6013	57	02
01-6014	03	29
01-6014	11	36
01-6015	30	27
01-6015	55	43
01-6015	55	47
01-6015	67	16

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01-6020-1	06	11
01-6025	07	06
01-6031	26	31
01-6034	58	19
01-6036	33	17
01-6036	66	14
01-6074	04	14
01-6075	04	06
01-6135-0-001	04	10
01-6328	33	16
01-6334	24	21
01-6334	51	18
01-6345	07	16
01-6350	11	07
01-6368	30	21
01-6368	67	20
01-6422-0-005	09	04
01-6428	13	29
01-6474	45	18
01-6474	45	27
01-6475	46	17
01-6488	45	26
01-6499	24	07
01-6528	30	20
01-6528	67	11
01-6551	23	09
01-6551	35	09
01-6560	32	09
01-6569-0-002	35	20
01-6581	42	13
01-6582	42	14
01-6600	14	18
01-6600	65	30
01-6670-0-002	09	16
01-6673-0-001	40	25
01-6831-0-002	25	16
01-6831-0-002	55	47
01-6833-0-002	11	35
01-6837	32	13
01-6904	46	18

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01-7002	11	06
01-7004	17	05
01-7015	19	12
01-7022	28	06
01-7023	17	21
01-7038	12	19
01-7041	25	12
01-7043	17	22
01-7058	65	10
01-7435-1	30	10
01-7435-1	53	17
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01-7447-1	23	08
01-7447-1	35	08
01-7624	09	14
01-7625	37	13
01-7626-0-001	24	02
01-7626-0-001	37	03
01-7627-0-001	39	10
01-7630-0-001	25	27
01-7631-1	57	13
01-7632-1	57	07
01-7636-0-002	65	45
01-7653	09	29
01-7667	14	08
01-7668	09	12
01-7722	09	11
01-8002	12	04
01-8007-0-001	09	34
01-8413	16	02
01-8413	46	04

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03-0007	47	01
03-0010	48	10
03-0011	47	08
03-0013	48	11
03-0018	47	06
03-0019	48	09
03-0020	48	14
03-0022	48	15
03-0024	47	04
03-0032-0-003	48	13
03-0032-0-004	48	13
03-0032-0-005	48	13
03-0032-0-612	48	13
03-0033	47	01
03-0038	47	02
03-0045	47	05
03-0048-1	48	10
03-0053	47	03
03-0162	47	07
03-0188	47	04
03-0189	47	04
03-0278	47	04
03-0279	48	12
03-0403	48	18
03-0404	47	07

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04-0002-0-071	46	09
04-0057-2	40	25
04-0084-0-802	41	30
04-0084-0-802	43	12

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04-0136	40	28
04-0179-0-001	42	15
04-0180-0-003	42	01
04-0181	42	11
04-0184	42	04
04-0514	61	09
04-0514	62	28
04-0564-0-002	41	29
04-0564-0-004	41	29
04-0801	45	03
04-0802	45	02
04-0803	45	01
04-0804-1	45	04
04-0805	45	05
04-0806	45	06
04-0808	45	08
04-0809	45	09
04-0811	45	07
04-0812-0-001	45	16
04-0812-0-002	45	15
04-1133	43	02
04-1208	43	18
04-1283-0-001	37	34
04-1524	46	12
04-1546	46	22
04-1548	40	23
04-1549	40	06
04-1551-0-001	40	18
04-1552	46	16
04-1553	46	11
04-1554-2	40	05
04-1555-2	40	05
04-1609	46	08
04-1712	35	13
04-1791	35	24
04-2040-0-003	61	04
04-2040-0-005	61	06
04-2502	40	07
04-2503	40	10
04-2504	41	35
04-2505	40	07
04-2506	40	10
04-2507	41	35
04-2510	41	36

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05-0001-0-001	23	18
05-0001-0-055	23	18
05-0002-0-001	23	15
05-0003	23	21
05-0004-0-001	23	11
05-0005	23	13

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05-0087-0-420	46	07
05-0090	48	16
05-0140	48	17
05-0144	60	38
05-0192	09	31
05-0360	55	22
05-0369	43	15
05-0531-0-001	21	34
05-1096	14	23
05-1096	39	20
05-1102	46	07
05-1103	46	05
05-1105	61	20
05-1120	24	03
05-1120	37	04
05-1120	39	09
05-1130	37	41
05-1131	01	38
05-1132	01	39

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06-0031	43	19
06-0039-0-102	43	08
06-0094-0-001	43	06
06-0098-0-001	42	21
06-0173	40	28
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07-0086-0-001	35	01
07-0087-0-001	35	03
07-0204-0-001	62	26
07-0302-1	35	04
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07-0400-0-005	61	12
07-0400-0-007	61	13
07-0400-0-010	62	30
07-0400-0-016	61	11
07-0400-0-024	61	25
07-0401-0-004	29	30
07-0401-0-004	61	15
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07-0401-0-007	61	05
07-0401-0-009	28	25
07-0401-0-009	61	07

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10-1003	51	03
10-1004	24	27
10-1004	51	04
10-1005	51	05
10-1007	51	06
10-1008	24	31
10-1008	51	15
10-1009	24	32
10-1009	51	14
10-1014-1	19	01
10-1015-1	19	06
10-1016-2	19	07
10-1021-1	21	19
10-1022	21	21
10-1023-3	21	18
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10-1126	06	26
10-1127-3	06	09
10-1128	39	26
10-1129-1	39	23
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10-1147	21	27
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10-2013	05	12
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10-2020	03	27
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10-2025	02	08
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