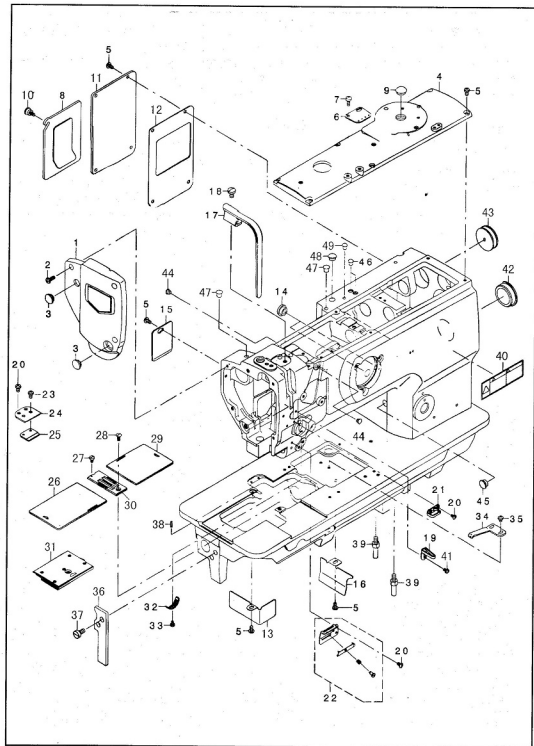


1.FRAME & MISCELLANEOUS COVER COMPONENTS



1.FRAME & MISCELLANEOUS COVER COMPONENTS

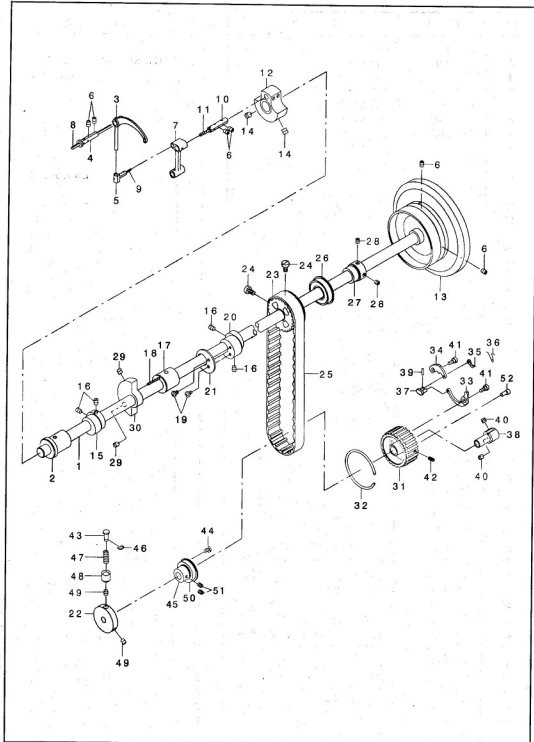
REF.NO	NOTE	PART NO.	DESCRIPTION	Qty
1		23 - 0101	FACE PLATE ASM.	1
2		23 - 0102	SCREW SM11/64" x 40 L = 12	3
3		23 - 0103	RUBBER	2
4		23 - 0104	TOP COVER	1
5	#01	23 - 0105	SCREW SM11/64" x 40 L = 8	13
6		23 - 0106	ARM THREAD GUIDE	1
7		23 - 0107	SCREW SM3/16" x 32 L = 9.5	2
8	#01	23 - 0108	WINDOW PLATE A ASM.	1
9	#01	23 - 0109	SCREW	1
10	#01	23 - 0111	SETSCREW SM11/64" x 40 L = 7.5	1
11	#01	23 - 0112	WINDOW PLATE B	1
12	#01	23 - 0113	WINDOW PLATE PACKING B	1
13		23 - 0151	OIL SHIELD (LEFT)	1
14		23 - 0115	RUBBER PLUG	2
15	#01	23 - 0116	SIDE COVER	1
16	#01	23 - 0152	DUST COVER	1
17		23 - 0118	THREAD GUIDE, B	1
18		23 - 0119	SCREW SM15/64" x 28 L = 9	1
19		23 - 0120	THREAD GUIDE, B	1
20		23 - 0123	SCREW SM9/64" x 40 L = 5.6	5
21		23 - 0122	FRAME THREAD GUIDE, UPPER	1
22		23 - 0124	THREAD GUIDE ASM.	1
23	#01	23 - 0170	SCREW SM9/64" x 40 L = 3.2	2
24	#01	23 - 0168	AUXILIARY COVER	1
25	#01	23 - 0169	SLIDING PLATE PRESSER	1
26	#02	23 - 0140	BED SLIDE, LEFT	1
27		23 - 0138	SCREW SM9/64" x 40 L = 6	1
28		23 - 0137	SCREW SM11/64" x 40 L = 7	1
29	#02	23 - 0142	BED SLIDE, RIGHT	1
30	#03	23 - 0136	THROAT PLATE	1
31		23 - 0143	BED SLIDE ASM.	1
32		23 - 0132	TAKE-UP SPRING ADJUSTING PLATE	1
33		23 - 0133	SCREW SM3/16" x 32 L = 4.5	2
34		23 - 0134	BED SLIDE SPRING	1
35		23 - 0135	SCREW SM11/64" x 40 L = 5	2
36		23 - 0163	BED SUPPORT PLATE	1
37		23 - 0172	SCREW SM15/64" x 28 L = 12	2
38		23 - 0144	THROAT PLATE PIN	1
39		23 - 0162	BED SCREW STUD SM15/64" x 28 L = 10	2
40		23 - 0139	SAFETY LABEL	1
41		23 - 0121	SCREW SM9/64" x 40 L = 6	1
42		23 - 0157	RUBBER PLUG	1
43		23 - 0158	RUBBER PLUG	1
44	#01	23 - 0175	RUBBER PLUG	2
45		23 - 0145	RUBBER PLUG	1
46		23 - 0146	RUBBER PLUG	2
47		23 - 0148	RUBBER PLUG	2
48		23 - 0164	RUBBER PLUG	1
49		23 - 0159	RUBBER PLUG	1

NOTE #01.....FOR 1510N

#02.....SELECTIVE PARTS

#03.....EXCHANGING GAUGE PARTS

2. UPPER SHAFT, LOWER SHAFT DRIVING & BALANCE COMPONENTS

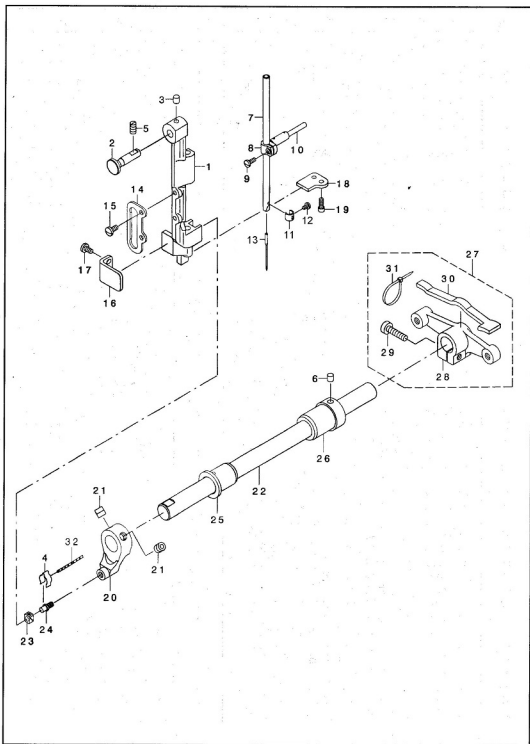


2.UPPER SHAFT,LOWER SHAFT DRIVING & BALANCE COMPONENTS

REF.NO	NOTE	PART NO.	DESCRIPTION	Qty
1		23 - 0201	UPPER SHAFT	1
2		23 - 0202	UPPER SHAFT FRONT METAL	1
3		23 - 0203	THREAD TAKE-UP LEVER	1
4		23 - 0204	TAKE-UP LEVER	1
5		23 - 0205	TAKE-UP LEVER THRUST PIN	1
6		23 - 0206	SCREW SM15/64" x 28 L = 8	6
7		23 - 0207	NEEDLE BAR CRANK ROD	1
8		23 - 0208	OIL WICK	1
9		23 - 0209	OIL WICK	1
10		23 - 0210	NEEDLE BAR CRANK PIN	1
11		23 - 0211	OIL WICK	1
12		23 - 0212	COUNTER WEIGHT	1
13	#01	23 - 0261	FLYWHEEL	1
14		23 - 0214	SCREW M8 x 8	2
15	#01	23 - 0215	UPPER FEED CAM	1
16	#01	23 - 0216	SCREW SM1/4" x 40 L = 8	4
17		23 - 0217	UPPER SHAFT INNER METAL	1
18		23 - 0218	OIL WICK	1
19		23 - 0257	SCREW SM11/64" x 40 L = 7	2
20		23 - 0220	ECCENTRIC CAM A	1
21		23 - 0221	HORIZONTAL FEED CAM COVER	1
22	#01	23 - 0222	SAFETY CLUTCH DISC	1
23		23 - 0223	UPPER SPROCKET	1
24		23 - 0224	SCREW SM1/4" x 40 L = 11	2
25		23 - 0225	TIMING BELT	1
26		23 - 0226	BUSHING, REAR	1
27		23 - 0227	UPPER SHAFT BEARING HOOK	1
28		23 - 0228	SCREW M6 x 6	2
29	#01	23 - 0259	SCREW SM15/64" x 28 L = 15	2
30	#01	23 - 0258	BALANCER	1
31		23 - 0231	LOWER SPROCKET	1
32		23 - 0232	SPROCKET RING	1
33		23 - 0233	SAFETY CLUTCH SPRING	1
34		23 - 0234	SAFETY CLUTCH HOOK	1
35		23 - 0235	SAFETY CLUTCH COUNTER-HOOK	1
36		23 - 0236	COUNTER-HOOK SPRING	1
37		23 - 0237	SAFETY CLUTCH SMALL LINK	1
38		23 - 0238	SAFETY BASE	1
39		23 - 0239	SAFETY CLUTCH SMALL LINK PIN	1
40		23 - 0408	SCREW SM1/4" x 40 L = 6	2
41		23 - 0241	HINGE SCREW SM3/16" x 32 Φ6.35 H = 3.2	2
42		23 - 0243	SCREW SM11/64" x 40 L = 9.5	1
43	#01	23 - 0244	SAFETY CLUTCH PUSH BUTTON	1
44		23 - 0255	SCREW SM3/16" x 28 L = 8	2
45		23 - 0252	THRUST COLLAR, B	1
46		23 - 0246	E-RING	1
47		23 - 0247	SPRING	1
48		23 - 0248	SAFETY CLUTCH KNOB SLEEVE	1
49	#01	23 - 0249	SCREW SM15/64" x 28 L = 7	2
50		23 - 0254	BEARING	1
51		23 - 0252	SCREW	1
52		23 - 0269	ADJUSTING PIN(1.2)	1

NOTE #01.....FOR 1510N

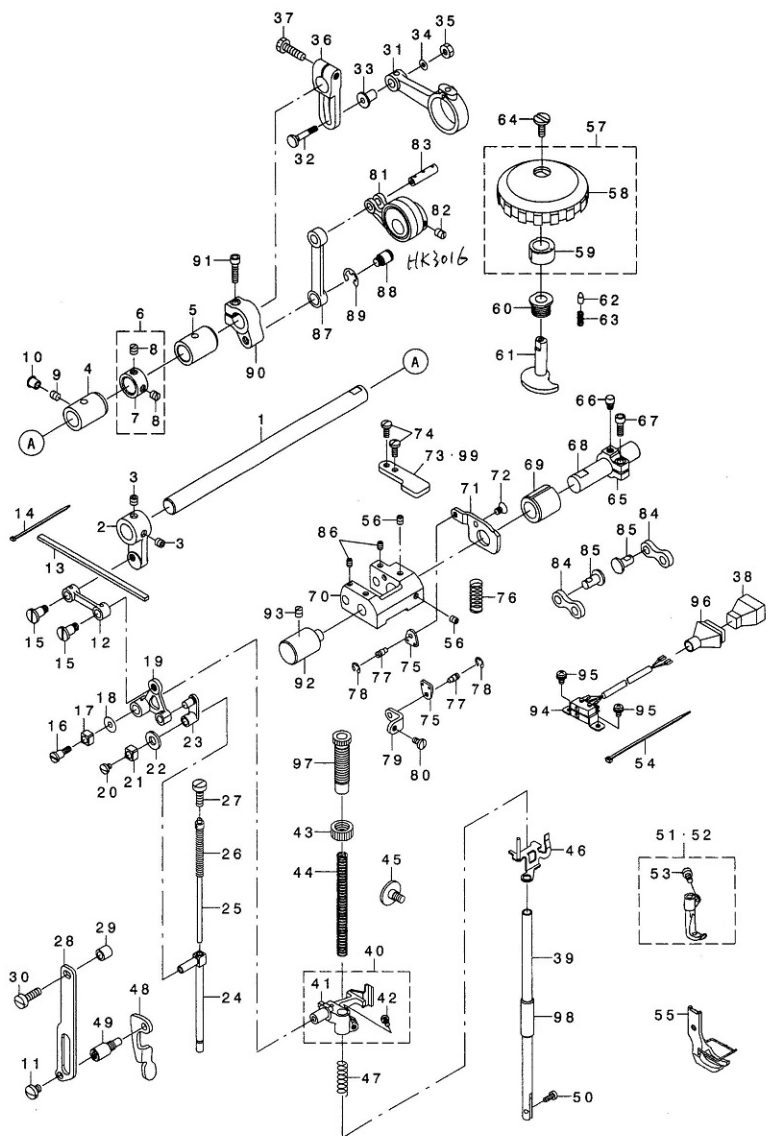
3.NEEDLE BAR ROCKING COMPONENTS



3.NEEDLE BAR ROCKING COMPONENTS

REF.NO	NOTE	PART NO.	DESCRIPTION	Qty
1		23 - 0301	NEEDLE BAR FRAME	1
2		23 - 0302	HINGE STUD	1
3		23 - 0303	FELT	1
4		23 - 0304	OIL WICK RETAINER	1
5		23 - 0305	SCREW SM15/64" x 28 L = 10.5	1
6		23 - 0106	FELT	1
7		23 - 0307	NEEDLE BAR	1
8		23 - 0308	NEEDLE ROD HOLDER	1
9		23 - 0309	SCREW SM9/64" x 40 L = 8	1
10		23 - 0310	FELT	1
11		23 - 0311	NEEDLE CLAMP	1
12		23 - 0312	SCREW SM9/64" x 40 L = 3.5	2
13			NEEDLE SY3355 160	2
14		23 - 0314	UPPER FEED BAR GUIDE	1
15		23 - 0315	SCREW SM11/64" x 40 L = 8	2
16		23 - 0316	ROCKING BASE GUIDE	1
17		23 - 0317	SCREW SM11/64" x 40 L = 7.5	2
18		23 - 0318	ROCKING BASE GUIDE (B)	1
19		23 - 0319	SCREW SM9/64" x 40 L = 10	2
20		23 - 0320	NEEDLE BAR ROCKING FRONTARM	1
21		23 - 0321	SCREW M8 x 8	2
22		23 - 0322	ROCKING SHAFT	1
23		23 - 0323	SQUARE BLOCK	1
24		23 - 0324	STUD	1
25		23 - 0325	ROCKING SHAFT FRONT METAL	1
26		23 - 0326	ROCKING SHAFT REAR METAL	1
27		23 - 0327	ROCKING REAR ARM ASM.	1
28		23 - 0328	ROCKING REAR ARM	1
29		23 - 0329	SCREW SM15/64" x 28 L = 24	1
30		23 - 0330	ROCKING REAR ARM FELT	1
31		23 - 0331	CABLE BAND	1

4. PRESSURE ADJUSTING & UPPER FEED MECHANISM COMPONENTS



4. PRESSURE ADJUSTING & UPPER FEED MECHANISM COMPONENTS

REF.NO	NOTE	PART NO	DESCRIPTION	Qty
1		23-0401	UPPER FEED SHAFT	1
2		23-0402	UPPER FEED FRONT ARM	1
3		23-0403	SCREW 1/4-40 L=6	2
4		23-0404	FRONT METAL	1
5		23-0405	FEED SHAFT METAL	1
6		23-0406	MAIN SHAFT THRUST COLLAR ASM	1
7		23-0407	MAIN SHAFT THRUST COLLAR	(1)
8		23-0408	SCREW 1/4-40 L=6	(2)
9		23-0249	SCREW 15/64-28 L=7	1
10		23-0148	RUBBER PLUG	1
11		23-0411	SCREW 15/64-28 L=7	1
12		23-0412	UPPER FEED LINK	1
13		23-0413	FELT	1
14		23-0174	CLIP CV-70S	2
15		23-0415	HINGE SCREW, B	2
16		23-0416	HINGE SCREW D=6.35 H=7	1
17		23-0417	SLIDE BLOCK	1
18		23-0418	WASHER 5 X 13 X 1	1
19		23-0419	TRIANGULAR LEVER	1
20		23-0420	SCREW 11/64-40 L=5	1
21		23-0417	SLIDE BLOCK	1
22		23-0422	FELT	1
23		23-0423	WALKING BAR DRIVING LINK	1
24		23-0424	WALKING BAR	1
25		23-0425	WALKING BAR ASM.	1
26		23-0426	WALKING BAR SPRING	1
27		23-0427	SCREW 15/64-28 L=17.0	1
28		23-0428	UPPER FEED GUIDE PLATE	1
29		23-0429	ROLLER	1
30		23-0430	SCREW 15/64-28 L=19.0	1
31	#01	23-0431	UPPER FEED ROD	1
32	#01	23-0432	HINGE SCREW	1
33	#01	23-0433	CONNECTING STUD	1
34	#01	23-0434	WASHER 4.8X11.5X2	1
35	#01	23-0435	NUT 11/64-40	1
36	#01	23-0436	UPPER FEED REAR ARM	1
37	#01	23-0437	SCREW M6 L=22	1
38	#02	23-0438	12-POLE PLUG	1
39		23-0439	PRESSER BAR	1
40		23-0440	PRESSER BAR HOLDER ASM.	1
41		23-0441	PRESSER BAR HOLDER	(1)
42		23-0315	SCREW 11/64-40 L= 8.5	(1)
43		23-0443	NUT	1
44		23-0444	PRESSER SPRING	1
45		23-0445	HINGE SCREW D= 8 H= 4.9	1
46		23-0446	HOLDING PLATE COMPL.	1
47		23-0447	THREAD RELEASE SPRING	1
48		23-0448	PRESSER LIFTER LEVER	1
49		23-0449	GUIDE PLATE SPACER	1
50		23-0450	SCREW 9/64-40 L=9	1
51	#03	23-0451	WALKING FOOT 1-1/4 ASM.	1
52	#04	39-0452	WALKING FOOT ASM.	1
53		23-0453	SCREW 11/64-40 L= 6.5	(1)
54	#02	23-0174	CABLE BAND	1
55	#05	23-0455	PRESSER FOOT ASM. 3/8	1
56	#02	23-1220	SCREW M5 L=6	2
57	#02	39-0457	UPPER AND LOWER DIAL ASM.	1
58		39-0458	VERTICAL DIAL	(1)
59		39-0459	VERTICAL CAM	(1)
60	#02	39-0460	VERTICAL DIAL SHAFT BUSHING	1

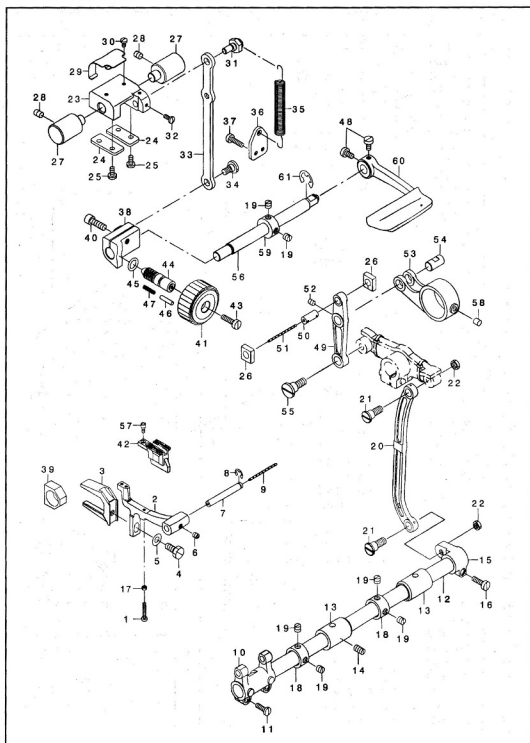
NOTE #01....FOR 1510N
 #02....FOR 1510N-7
 #03....EXCHANGING GAUGE PARTS
 (FOR 1510N)
 #04....EXCHANGING GAUGE PARTS
 (FOR 1510N-7)
 #05....EXCHANGING GAUGE PARTS

4. PRESSURE ADJUSTING & UPPER FEED MECHANISM COMPONENTS

REF.NO	NOTE	PART NO	DESCRIPTION	Qty
61	#02	39-0461	VERTICAL ADJUSTING CAM	1
62	#02	39-0462	VERTICAL DIAL PIN	1
63	#02	39-0463	SPRING	1
64	#02	39-0464	SCREW 11/64-40 L=6	1
65	#02	39-0465	VERTICAL ADJUSTING ARM	1
66	#02	39-0466	PIN	1
67	#02	39-0467	SCREW M5X0.8 L=14	1
68	#02	39-0468	VERTICAL CHANGE BASE SHAFT	1
69	#02	39-0469	FEED SHAFT FRONT METAL	1
70	#02	39-0470	VERTICAL CHANGE BELT	1
71	#02	39-0471	UPPER FEED STOPPER PLATE (A)	1
72	#02	39-0472	SCREW M5 L=8	1
73	#01	23-0473	UPPER FEED STOPPER PLATE (B)	1
74		23-0315	SCREW	2
75	#02	39-0475	SPRING HOOK	2
76	#02	39-0476	VERTICAL SHAFT SPRING	1
77	#02	39-0477	CONNECTING ROD HINGE SCREW	2
78	#02	39-0478	E-RING	2
79	#02	39-0479	UPPER FEED DOG SPRING HOOK	1
80	#02	23-0317	SCREW 11/64-40 L= 7.5	1
81	#02	39-0481	ECCENTRIC ROD (SET)	1
82	#02	23-0216	SCREW 1/4-40 L=8	2
83	#02	39-0483	CONNECTION LINK PIN B	1
84	#02	39-0484	CONNECTION LINK B	2
85	#02	39-0485	CONNECTION LINK B SUPPORT PIN	2
86	#02	23-1220	SCREW M5 L=6	2
87	#02	39-0487	UPPER FEED LINK (B)	1
88	#02	39-0488	HINGE SCREW	1
89	#02	39-0489	E-SHAPED SNAP RING (8MM)	1
90	#02	39-0490	UPPER FEED REAR ARM (B)	1
91	#02	39-0491	SCREW M5 L=20	1
92	#02	23-0527	FEED ADJUSTING BASE SUPPORT	1
93	#02	23-0249	SCREW 15/64-28 L=7	1
94	#02	39-0494	VERTICAL DETECTOR SWITCH ASM.	1
95	#02	39-0495	SCREW M4 L=8	2
96	#02	39-0496	12-POLE PLUG COVER	1
97		23-0497	PRESSER ADJUSTING SCREW	1
98		23-0498	PRESSER BAR LOWER BUSHING	1
99	#02	39-0499	UPPER FEED STOPPER PLATE	1

NOTE #01....FOR 1510N
 #02....FOR 1510N-7
 #03....EXCHANGING GAUGE PARTS
 (FOR 1510N)
 #04....EXCHANGING GAUGE PARTS
 (FOR 1510N-7)
 #05....EXCHANGING GAUGE PARTS

5.FEED MECHANISM COMPONENTS



5.FEED MECHANISM COMPONENTS

REF.NO	NOTE	PART NO.	DESCRIPTION	Qty
1		23 - 0566	SCREW SM1/8" x 44 L = 18	1
2		24 - 0602	FEED BASE	1
3		23 - 0503	FEED BASE FORK	1
4		23 - 0504	SCREW SM15/64" x 28 L = 14	1
5		23 - 0505	WASHER	1
6		23 - 0506	SCREW M5 x 5	1
7		23 - 0507	FEED BASE SHAFT	1
8		23 - 0508	SNAP RING	1
9		23 - 0509	OIL WICK	1
10		23 - 0510	FEED ROCKER	1
11		23 - 0511	SCREW SM11/64" x 40 L = 14	2
12		23 - 0512	FEED ROCK SHAFT	1
13		23 - 0513A,B	FEED ROCK SHAFT METAL	1
14		23 - 0305	SCREW SM15/64" x 28 L = 10.5	1
15		23 - 0515	FEED ROCKER SHAFT CRANK	1
16		23 - 0516	SCREW SM3/16" x 28 L = 15.5	1
17		23 - 0565	NUT SM3/16" x 28	1
18		23 - 0407	MAIN SHAFT THRUST COLLAR	2
19		23 - 0408	SCREW SM1/4" x 40 L = 6	6
20		23 - 0520	NEEDLE BAR FRAME ROD	1
21		23 - 0521	HINGE SCREW SM9/32" x 28	2
22		23 - 0522	NUT SM9/32" x 28	2
23		23 - 0523	FEED ADJUSTING BASE	1
24		23 - 0524	FEED ADJUSTING BASE COVER	2
25		23 - 0315	SCREW SM11/64" x 40 L = 8	4
26		23 - 0526	SQUARE BLOCK	2
27	#01	23 - 0527	FEED ADJUSTING BASE SUPPORT	2
28		23 - 0206	SCREW SM15/64" x 28 L = 8	2
29		23 - 0529	FELT SUPPORT	1
30		23 - 0530	SCREW SM9/64" x 40 L = 6	2
31		23 - 0531	ECCENTRIC PIN	1
32		23 - 0532	SCREW SM9/64" x 40 L = 8.5	2
33		23 - 0533	FEED ADJUSTING ROD	1
34		23 - 0534	HINGE SCREW	1
35		23 - 0535	SPRING	1
36		23 - 0536	SPRING HOOK	1
37		23 - 0537	SCREW SM11/64" x 40 L = 16	2
38		23 - 0538	FEED ADJUSTING A	1
39		23 - 0539	FEED DRIVING SLIDE BLOCK	1
40		23 - 0540	SCREW M6 x 18	1
41		23 - 0541	FEED DIAL A	1
42	#02	23 - 0542	FEED DOG	1
43		23 - 0543	SCREW SM3/16" x 28 L = 18	1
44		23 - 0544	FEED REGULATOR SCREW	1
45		23 - 0545	RUBBER RING	1
46		23 - 0546	PIN	1
47		23 - 0547	SPRING	1
48	#01	23 - 0563	SCREW SM3/16" x 28 L = 9	2
49		23 - 0549	FEED LINK	1
50		23 - 0550	CONNECTING FORKED LINK PIN	1
51		23 - 0551	OIL WICK	1
52		23 - 0552	SCREW M5 x 6	1
53		23 - 0553	FEED ROD A	1
54		23 - 0554	FEED LINK PIN	1
55		23 - 0555	HINGE SCREW	1
56		23 - 0556	BACKWARD FEED LEVER SHAFT	1
57		23 - 0557	SCREW SM1/8" x 40 L = 7	2
58		23 - 0564	FELT	1
59		23 - 0559	THRUST COLLAR	1
60		23 - 0562	REVERSE FEED CONTROL LEVER	1
61		23 - 0561	E-RING	1

NOTE #01.....FOR 1510N

#02.....EXCHANGING GAUGE PARTS

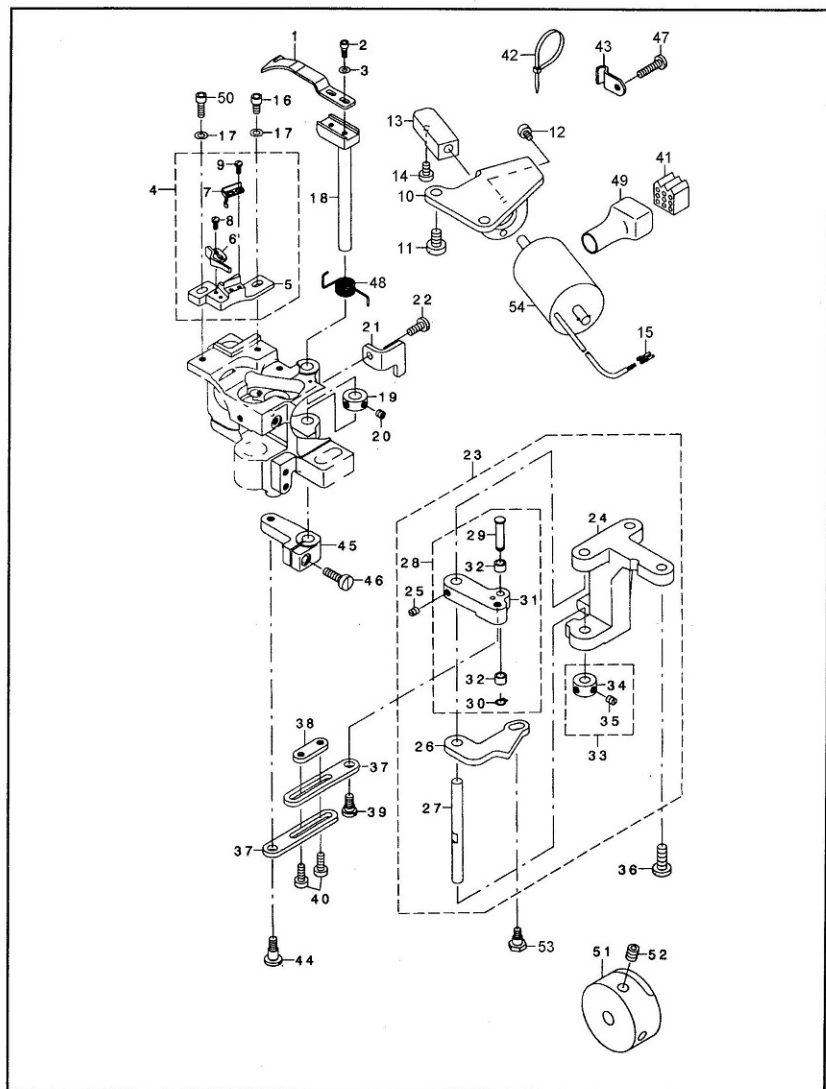
6.HOOK SHAFT & LOWER SHAFT COMPONENTS

REF.NO	NOTE	PART NO.	DESCRIPTION	Qty
1		23 - 0655	SCREW SM11/64" x 40 L = 4	4
2	#01	23 - 0642	FEED DRIVING CAM	1
3	#01	23 - 0603	HOOK SHAFT BASE	1
4		25 - 0627	OIL WICK	1
5		23 - 0546	SCREW SM1/4" x 40 L = 6.2	6
6	#01	23 - 0606	BOBBIN CASE OPENING LEVER LINK	2
7		23 - 0607	CRANK SCREW STUD	2
8		23 - 0608	OIL WICK	2
9		23 - 0609	NUT SM11/64" x 40	4
10		23 - 0648	HOOK DRIVING SHAFT GEAR, LARGE	2
11	#01	23 - 0611	BOBBIN CASE OPENING LEVER CRAN	2
12		23 - 0216	SCREW SM1/4" x 40 L = 8	4
13		23 - 0613	OPENING LEVER CRANK PIN	2
14		23 - 0614	SCREW SM11/64" x 40 L = 18	2
15		23 - 0615	OIL WICK	2
16	#01	23 - 0644	SCREW SM1/4" x 40 L = 4.5	3
17	#01	23 - 0617	BOBBIN CASE OPENING LEVER	2
18		23 - 0618	WASHER	2
19		23 - 0619	SCREW SM9/64" x 40 L = 7.5	2
20	#02	23 - 06**	WASHER	2
21		23 - 0652	OIL PUMP SHAFT	1
22		23 - 0645	HOOK DRIVING SHAFT GEAR, SMALL	2
23	#01	23 - 0623	HOOK SHAFT UPPER METAL	2
24		23 - 0624	HOOK SHAFT LOWER METAL	2
25		23 - 0625	SADDLE INSTALLING BLOCK, UPPER	2
26		23 - 0626	SADDLE INSTALLING BLOCK, LOWER	2
27		23 - 0627	SCREW SM15/64" x 28 L = 30	2
28		23 - 0628	WASHER	2
29		23 - 0629	SCREW M8 x 25	2
30		23 - 0630	OIL ADJUSTING SCREW	2
31		23 - 0640	BUSHING ASM., INTERMEDIATE	1
32		23 - 1539	CONNECTING SCREW	4
33	#01		VERTICAL HOOK ASM.	2
34		23 - 0654	PLUNGER BUSHING,B	1
35	#01	23 - 0635	BOBBIN	2
36		23 - 0636	LOWER SHAFT	1
37		25 - 0626	BUSHING, LEFT	1
38		23 - 0305	SCREW SM15/64" x 28 L = 10.5	2

NOTE #01.....FOR 1510N

#02.....SELECTIVE PARTS

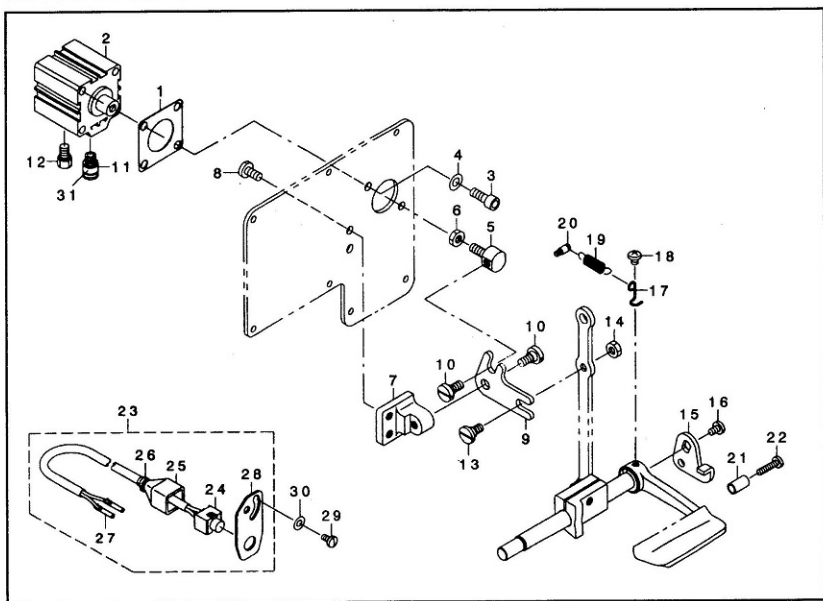
7.THREAD CUTTING COMPONENTS(FOR 1510N-7)



7.THREAD CUTTING COMPONENTS(FOR 1510N-7)

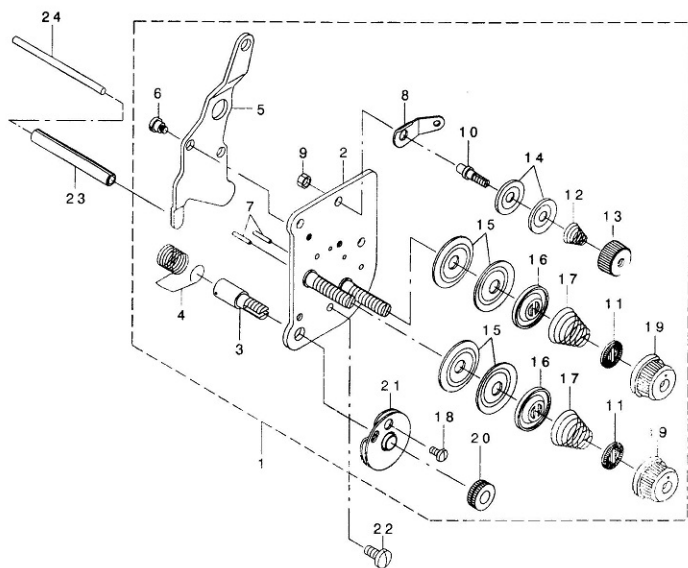
REF. NO	NOTE	PART NO	DESCRIPTION	Qty
1		39-0701	MOVING KNIFE	2
2		39-0702	SCREW M3X0.5 L=8	4
3		39-0703	WASHER M3	4
4		39-0704	FIXED KNIFE BASE (RIGHT) ASM.	1
5		39-0705	FIXED KNIFE BASE (RIGHT)	(1)
6		39-0706	FIXED KNIFE	(1)
7		39-0713	CLAMP SPRING	(1)
8		39-0708	SCREW 3/32-56 L= 5.5	(2)
9		39-0708	SCREW 3/32-56 L= 5.5	(2)
10		39-0755	SOLENOID FITTING PLATE	1
11		39-0756	SCREW 15/64-28 L=10	2
12		39-0757	SCREW M4X0.7 L=8	2
13		39-0758	SOLENOID CONNECTING PLATE	1
14		23-0453	SCREW 11/64-40 L= 6.5	2
15		39-0760	PIN CONTACT	2
16		39-0716	SCREW M4X0.7 L=12	3
17		39-0717	WASHER M4	4
18		39-0718	MOVING KNIFE SHAFT	2
19		39-0719	THRUST COLLAR	2
20		20-0337	SCREW 11/64-40 L=4	4
21		39-0721	THREAD CUTTING STOPPER (RIGHT)	1
22		20-0408	SCREW 11/64-40 L=10.5	1
23		39-0723	VERTICAL FITTING BASIS ASM.	1
24		39-0724	VERTICAL FITTING BASIS	(1)
25		01-1104	SCREW 11/64-40 L=5	(2)
26		39-0726	THREAD CUTTING DRIVING PLATE	(1)
27		39-0727	SHAFT	(1)
28		39-0728	THREAD CUTTING ROLLER ARM	(1)
29		39-0729	CAM ROLLER SHAFT	(1)
30		39-0730	SNAP RING	(1)
31		39-0731	THREAD CUTTING ROLLER ARM	(1)
32		39-0732	CAM ROLLER	(2)
33		39-0733	THRUST COLLAR ASM. D=7 W=8	(1)
34		39-0734	THRUST COLLAR D=7 W=8	(1)
35		01-1449	SCREW 11/64-40 L=5	(2)
36		39-0736	SCREW 15/64-28 L=16	2
37		39-0737	CONNECTING PLATE	2
38		39-0738	STOPPING PLATE	1
39		39-0739	HINGE SCREW	1
40		23-0170	SCREW 11/64-40 L=11	2
41		39-0761	HOUSING 14P	1
42		23-0174	CABLE BAND	1
43		39-0763	PIPE HOLDER	1
44		39-0744	HINGE SCREW D= 6.35 H= 7.5	1
45		39-0745	ROCKING ARM (RIGHT)	1
46		20-0546	SCREW 3/16-28 L=15.5	1
47		39-0747	SCREW 11/64-40 L=18	1
48		20-0546	MAINTENANCE SPRING	1
49		39-0749	12-POLE RECEPTACLE COVER	1
50		39-0750	SCREW M4X0.7 L=8	1
51		39-0764	THREAD TRIMMER CAM	1
52		39-0765	SCREW 1/4-40 L=6	2
53		39-0766	HINGE SCREW D= 6.35 H= 4.8	1
54		39-0767	THREAD CUTTING SOLENOID	1

8. AUTOMATIC BACK COMPONENTS (FOR 1510N-7)



REF. NO	NOTE	PART NO	DESCRIPTION	Qty
1		39-0801	CYLINDER PACKING	1
2		39-0802	JIG CYLINDER	1
3		39-0803	SCREW M6 L=16	2
4		39-0804	WASHER M6	2
5		39-0805	CYLINDER CONNECTING SCREW	1
6		39-0806	NUT M6	1
7		39-0807	FITTING BASE	1
8		39-0808	SCREW 15/64-28 L=12	2
9		39-0809	BACKWARD FEED LINK	1
10		39-0810	HINGE SCREW D= 8 H= 3.5	2
11		39-0811	HALF UNION	1
12		39-0812	MUFFLER	1
13		39-0813	HINGE SCREW D= 8 H= 4	1
14		39-0814	NUT 15/64-28	1
15		39-0815	REVERSE FEED LINK, (1)	1
16		39-0816	SCREW 3/16-28 L= 7.0	1
17		39-0817	SPRING SUSPENSION	1
18		39-0818	SCREW 3/16-28 L=6	1
19		39-0819	SPRING	1
20		39-0820	SPRING SUSPENSION	1
21		39-0821	REVERSE FEED LEVER STOPPER	1
22		39-0822	SCREW 11/64-40 L=18	1
23		39-0823	TOUCH BUCK SWITCH WHOLE ASM.	(1)
24		39-0824	TOUCH BUCK SWITCH ASM.	(1)
25		39-0825	4-POLE NYLON PLUG COVER	(1)
26		39-0826	CLIP CV-70S	(1)
27		39-0827	PIN TERMINAL, MALE	(2)
28		39-0828	SWITCH FITTING PLATE	(1)
29		39-0829	SCREW 11/64-40 L=7.8	2
30		39-0830	WASHER 5X10.5X1	2
31		39-0811	WIRE MARK(1)	1

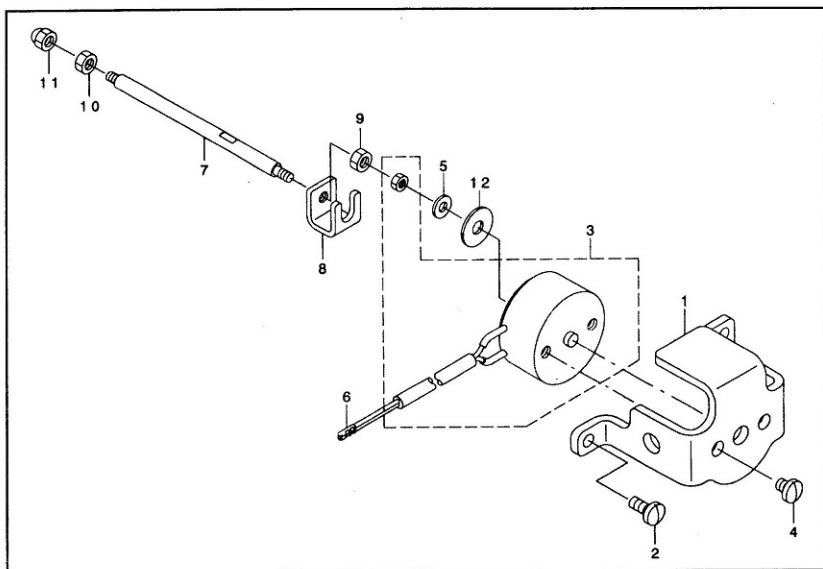
9. THREAD TENSION COMPONENTS



9. THREAD TENSION COMPONENTS

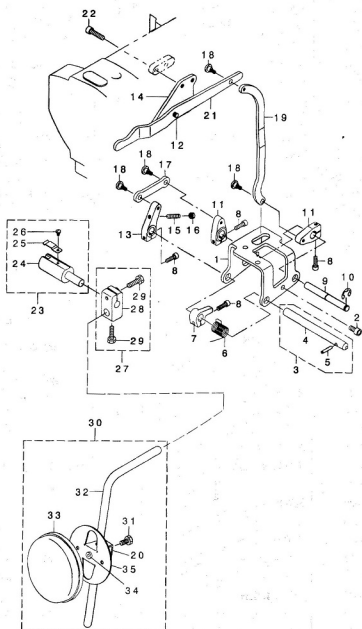
REF.NO	NOTE	PART NO.	DESCRIPTION	Qty
1		25 - 0701	THREAD TENSION ASM.	1
2		25 - 0704	THREAD TENSION BASE COMPL.	1
3		25 - 0703	THREAD TAKE-UP SPRING STUD	1
4		25 - 0702	THREAD TAKE-UP SPRING, A	1
5		23 - 0905	THREAD RELEASE PLATE	1
6		23 - 0906	HINGE SCREW D=4.7 H=2.8	2
7		25 - 0707	PIN B	2
8		25 - 0721	THREAD GUIDE	1
9		23 - 0909	NUT 11/64-40	1
10		23 - 0910	THREAD TENSION POST, A	1
11		23 - 0911	ROTATING STOPPER	2
12		23 - 0912	TENSION SPRING NO.1	1
13		23 - 0913	THREAD TENSION NUT	1
14		25 - 0718	FIRST THREAD TENSION PLATE	1
15		23 - 0915	TENSION DISC	2
16		23 - 0916	TENSION DISC HOLDER	1
17		23 - 0917	TENSION SPRING	1
18		23 - 0918	SCREW 1/8-44 L=6.4	1
19		23 - 0919	TENSION NUT	1
20		23 - 0932	THREAD TENSION NUT	1
21		25 - 0705	TAKE-UP SPRING GUIDE ASM.	1
22		23 - 0315	SCREW 11/64-40 L= 8.5	2
23		23 - 0937	SPRING PIN	1
24		23 - 0935	TENSION RELEASE BAR	1

10. THREAD RELEASE COMPONENTS (FOR 1510N-7)



REF.NO	NOTE	PART NO.	DESCRIPTION	Qty
1		39-1001	SOLENOID INSTALLING PLATE	1
2		3-0303	SCREW 11/64-40 L= 8.5	2
3		39-1003	TENSION RELEASE SOLENOID	1
4		39-1004	SCREW 11/64-40 L= 4.8	2
5		39-1005	WASHER 3.7X8X1	1
6		39-1006	PIN TERMINAL, MALE	2
7		39-1007	TENSION RELEASE BAR	1
8		39-1008	COUPLING	1
9		39-1009	NUT M4X0.7	1
10		39-1010	NUT M4X0.7	1
11		39-1011	NUT M4	1
12		39-1012	WASHER 5 X 13 X 1	1

11.KNEE LIFTING COMPONENTS

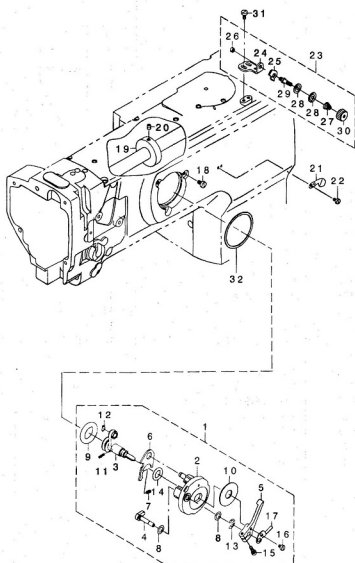


11.KNEE LIFTING COMPONENTS

REF.NO	NOTE	PART NO.	DESCRIPTION	Qty
1		23 - 1101	KNEE LIFTER SHAFT BASIS	1
2		23 - 1102	SCREW M6 x 12	3
3	#01	23 - 1103	KNEE LIFTER SHAFT A ASM.	1
4		23 - 1104	KNEE LIFTER SHAFT A	1
5		23 - 1105	KNEE LIFTER SHAFT PIN	1
6	#01	23 - 1106	KNEE LIFTER SHAFT A SPRING	1
7	#01	23 - 1107	KNEE LIFTER SPRING RACK	1
8	#01	23 - 1108	SCREW M5X0.8 L=16	4
9	#01	23 - 1109	KNEE LIFTER SHAFT B	1
10	#01	23 - 1110	E-SHAPED SNAP RING	1
11	#01	23 - 1111	KNEE LIFTER LEVER B	2
12	#01	23 - 1137	SCREW	1
13	#01	23 - 1113	KNEE LIFTER LEVER A	1
14	#01	23 - 1138	KNEE LIFTER LEVER STAY	1
15	#01	23 - 1115	SCREW M5 x 25	1
16	#01	23 - 1116	NUT M5	1
17	#01	23 - 1117	KNEE LIFTER LINK	1
18	#01	23 - 1120	HINGE SCREW	4
19	#01	23 - 1119	KNEE LIFTER CONNECTING PLATE	1
20	#01	20 - 0721	KNEE PAD PLATE SUPPORT	1
21	#01	23 - 1121	KNEE LIFTER LEVER	1
22	#01	23 - 1122	SCREW SM9/64" x 40 L = 25	2
23	#01	23 - 1123	KNEE LIFTER JOINT ASM.	1
24		23 - 1124	KNEE LIFTER JOINT	1
25		23 - 1125	PRESSER SPRING	1
26		23 - 1126	SCREW SM9/64" x 40 L = 4.7	1
27	#01	23 - 1127	FITTING ARM ASM. (VERTICAL)	1
28		23 - 1128	BRACKET	1
29		20 - 0711	SCREW M6 x 24	2
30	#01	20 - 0716	KNEE PRESS PLATE ASM.	1
31		20 - 0722	SCREW M6 x 12	1
32		20 - 0718	KNEE PRESS LEVER	
33		20 - 0717	KNEE PAD PLATE COVER	1
34		20 - 0719	KNEE PAD PLATE RUBBER	1
35		20 - 0720	KNEE PAD PLATE	1

NOTE #01.....FOR 1510N

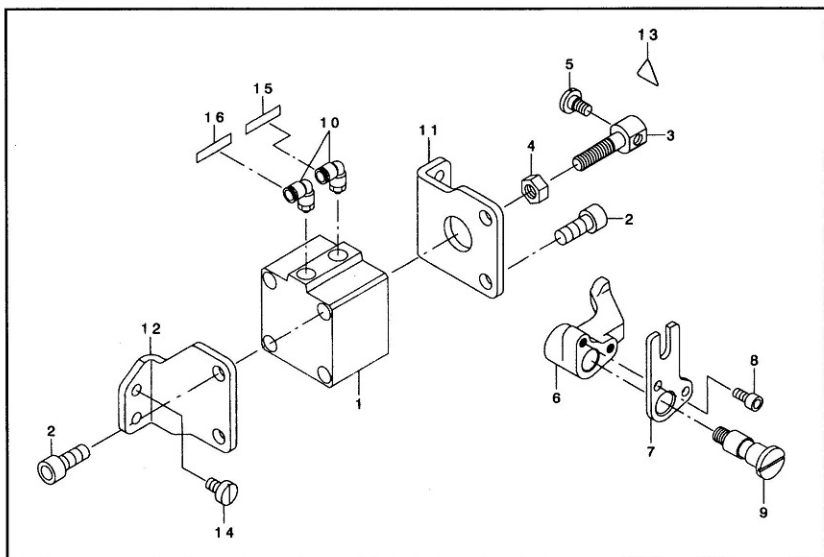
12. LOWER THREAD WINDER MECHANISM COMPONENTS



12.LOWER THREAD WINDER MECHANISM COMPONENTS

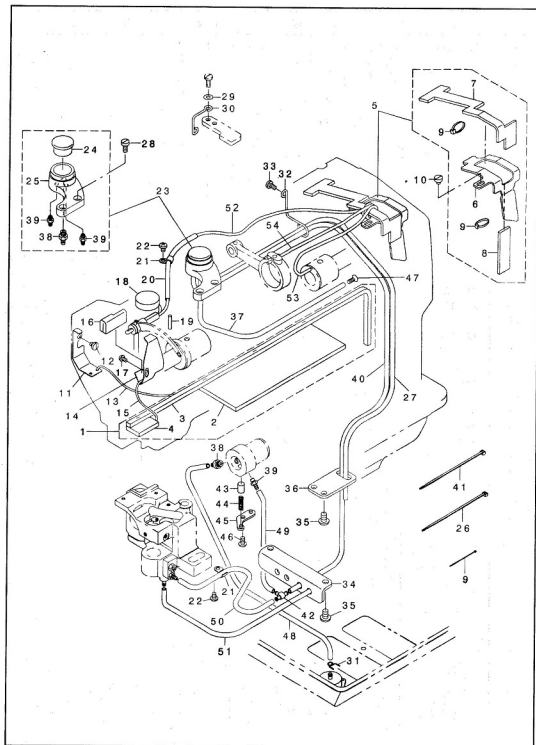
REF.NO	NOTE	PART NO.	DESCRIPTION	Qty
1		23 - 1201	BOBBIN DEVICE ASM.	1
2		23 - 1202	BOBBIN FITTING BASIS COMPL.	1
3		23 - 1203	BOBBIN SHAFT COMPL.	1
4		23 - 1204	BOBBIN CAMSHAFT COMPL.	1
5		23 - 1205	BOBBIN LEVER	1
6		23 - 1206	ADJUSTING PLATE	1
7		23 - 1207	PRESSUR FOOT SPRING	1
8		23 - 1208	VERTICAL ROLLER WASHER	1
9		23 - 1209	RUBBER RING	1
10		23 - 1210	CUSHION	1
11		23 - 1211	SPRING	1
12		23 - 1212	RETAINING RING	1
13		23 - 1213	E-RING	1
14		23 - 1214	RUBBER RING	1
15		23 - 1215	SCREW SM9/64" x 40 L = 13.5	1
16		23 - 1216	SCREW SM9/64" x 40 L = 5	1
17		23 - 1217	BOBBIN ADJUSTING PLATE	1
18		23 - 1218	SCREW SM11/64" x 40 L = 8	3
19		23 - 1219	BOBBIN FRICTION WHEEL	1
20		23 - 1220	SCREW M5 x 6	2
21		23 - 1221	THREAD CUTTER	1
22		23 - 1222	SCREW SM9/64" x 40 L = 6	2
23		23 - 1223	LOWER THREAD GUIDE ASM.	1
24		23 - 1224	FITTING BASE	1
25		23 - 1225	THREAD GUIDE	1
26		23 - 1226	NUT SM11/64" x 40	1
27		23 - 1227	TENSION SPRING NO.1	1
28		23 - 1228	BOBBIN WINDER TENSION DISC	2
29		23 - 1229	THREAD TENSION POST, A	1
30		23 - 1230	THREAD TENSION NUT	1
31		23 - 1231	SCREW SM3/16" x 32 L = 9	2
32		23 - 1232	TACKING	1

13. AUTOMATIC PRESSER LIFTING MECHANISM COMPONENTS (FOR 1510N-7)



REF.NO	NOTE	PART NO.	DESCRIPTION	Qty
1		39-1301	AIR CYLINDER	1
2		39-1302	SCREW M8 L=20	4
3		39-1303	CYLINDER CONNECTING SCREW	1
4		39-1304	NUT M8	1
5		39-1305	HINGE SCREW D= 7.24 H= 3.3	1
6		39-1306	PRESSER LIFTER LEVER A	1
7		39-1307	PRESSER LIFTER LEVER B	1
8		39-1308	SCREW M5X0.8 L=10	2
9		39-1309	SHAFT	1
10		39-1310	ELBOW	2
11		39-1311	CYLINDER STAY(FRONT)	1
12		39-1312	CYLINDER STAY(REAR)	1
13		39-1313	ATTENTION SEAL	1
14		39-1314	SCREW 15/64-28 L=10	4
15		39-1315	WIRE MARK(2)	1
16		39-1316	WIRE MARK(3)	1

14.LUBRICATION COMPONENTS

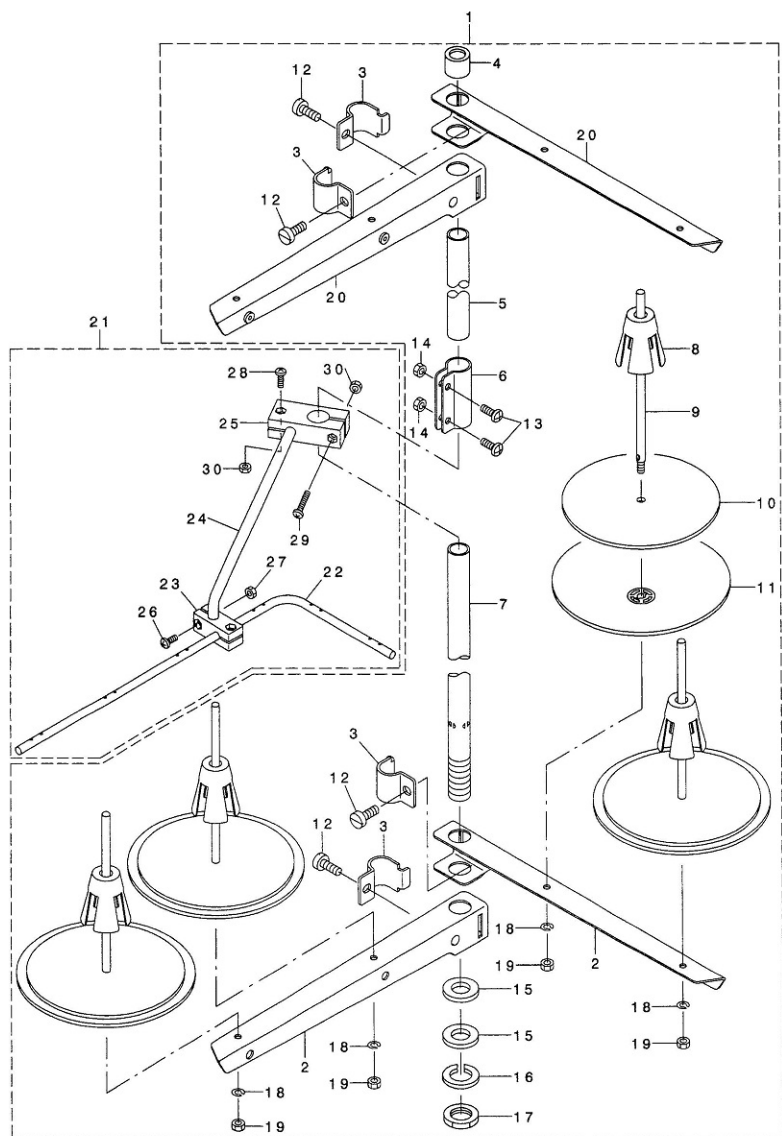


14.LUBRICATION COMPONENTS

REF.NO	NOTE	PART NO.	DESCRIPTION	Qty
1		23 - 1501	ARM ONCE THROUGH OIL FELT ASM.	1
2		23 - 1502	ARM ONCE THROUGH FELT A	1
3		23 - 1503	FELT B	1
4		23 - 1504	FACE ONCE THROUGH FELT	1
5		23 - 1505	FELT SUPPORT ASM.	1
6		23 - 1506	FELT	1
7		23 - 1507	FEED CHANGE FELT	1
8		23 - 1508	FELT	1
9		23 - 0414	CLIP CV-70S	3
10		23 - 1510	SCREW SM11/64" x 40 L = 4, 3	1
11		23 - 1511	UPPER FEED OIL BAR PLATE	1
12		23 - 1512	SCREW SM11/64" x 40 L = 5	1
13		23 - 1513	OIL WICK	1
14		23 - 1514	TAKE-UP OIL PLATE	1
15		23 - 1515	OIL WICK	1
16		23 - 1516	TAKE-UP LIBRICATION FELT	1
17		23 - 1517	SCREW SM9/64" x 40 L = 6	1
18		23 - 1518	FELT	1
19		23 - 1519	FELT	1
20		23 - 1520	OIL TUBE	1
21		23 - 1521	OIL RETURN TUBE HOLDER	2
22		23 - 1541	SCREW SM11/64" x 40 L = 6	2
23		23 - 1523	ARM OIL TANK ASM.	1
24		23 - 1524	OIL SIGHT WINDOW	1
25		23 - 1525	ARM OIL TANK	1
26		23 - 1566	CLIP BAND	1
27		23 - 1554	TUBE	1
28		23 - 1528	SCREW SM11/64" x 40 L = 9, 5	2
29	#01	23 - 1562	WASHER	1
30	#01	23 - 1561	OIL WICK HOLDER	1
31		23 - 1559	OIL TUBE HOLDER	1
32		23 - 1532	PIPE SUPPORT	1
33		23 - 0317	SCREW SM11/64" x 40 L = 7, 5	1
34		23 - 1534	LUBRICATION BRACKET	1
35		23 - 1535	SCREW SM15/64" x 28 L = 9	4
36		23 - 1536	OIL PIPE STAY	1
37		23 - 1563	TUBE	1
38		23 - 1538	CONNECTING SCREW	2
39		23 - 1539	CONNECTING SCREW	3
40		23 - 1553	TUBE	1
41		23 - 1565	CABLE BAND	1
42		23 - 1542	OIL CONNECT ARM	1
43		23 - 1543	PLUNGER	1
44		23 - 1544	PLUNGER SPRING	1
45		23 - 1545	PLUNGER THRUST PLATE	1
46		23 - 0105	SCREW SM11/64" x 40 L = 8	1
47		23 - 1564	SCREW M4 x 7, 3	1
48		23 - 1548	TUBE	1
49		23 - 1549	TUBE	1
50		23 - 1550	TUBE	1
51		23 - 1552	TUBE	1
52		23 - 1533	OIL WICK	1
53		23 - 1546	OIL WICK	1
54	#01	23 - 1560	OIL WICK	1

NOTE #01.....FOR 1510N

15. THREAD STAND COMPONENTS



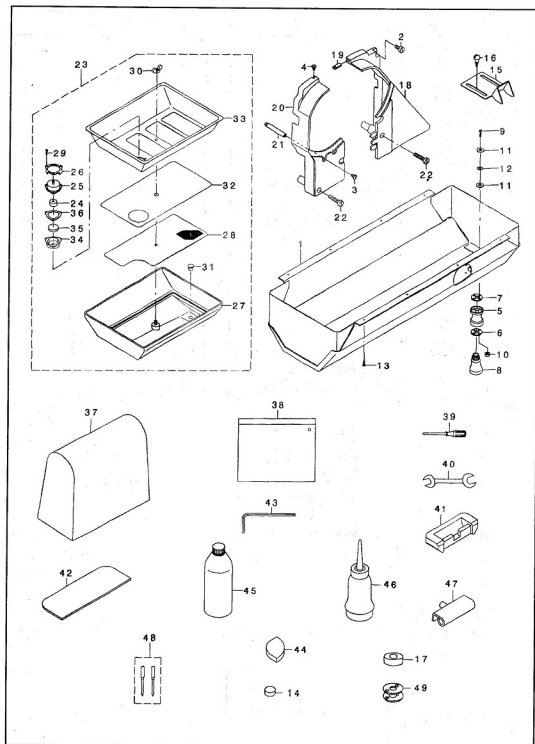
15. THREAD STAND COMPONENTS

REF. NO	NOTE	PART NO.	D E S C R I P T I O N	Qty
1		23-1501	THREAD STANDING DEVICE ASM.	1
2		23-1502	SPOOL REST ARM	(2)
3		23-1503	THREAD GUIDE ARM JOINT	(4)
4		23-1504	SPOOL REST ROD RUBBER CAP	(1)
5		23-1505	SPOOL REST ROD, UPPER	(1)
6		23-1506	SPOOL REST ROD JOINT	(1)
7		23-1507	SPOOL REST ROD, LOWER	(1)
8		23-1508	SPOOL RETAINER	(4)
9		23-1509	SPOOL PIN	(4)
10		23-1510	SPOOL REST CUSHION	(4)
11		23-1511	SPOOL REST	(4)
12		23-1512	SCREW M6 L=16	(4)
13		23-1513	SCREW M5 L=14	(2)
14		23-1514	NUT M5	(2)
15		23-1515	WASHER 16X30X2.6	(2)
16		23-1516	SPRING WASHER	(1)
17		23-1517	NUT M16X1.5	(1)
18		23-1518	NUT M5	(4)
19		23-1519	SPRING WASHER	(4)
20		23-1520	THREAD STANDING ARM ASM.	(2)
21	#01	23-1521	THREAD GUIDE ARM ASM.	1
22		23-1522	THREAD STANDING THREAD GUIDE	(1)
23		23-1523	THREAD GUIDE BASE, LOWER	(1)
24		23-1524	THREAD GUIDE ARM BASE	(1)
25		23-1525	THREAD GUIDE ARM BASE	(1)
26		23-1526	SCREW M4X0.7 L=10	(2)
27		23-1527	NUT M4X0.7	(2)
28		23-1528	SCREW M4 L=12	(1)
29		23-1529	SCREW M4 X 20	(1)
30		23-1530	NUT M4X0.7	(2)

NOTE

#01...FOR 1510N-7

16.ACCESSORIES PARTS COMPONENTS

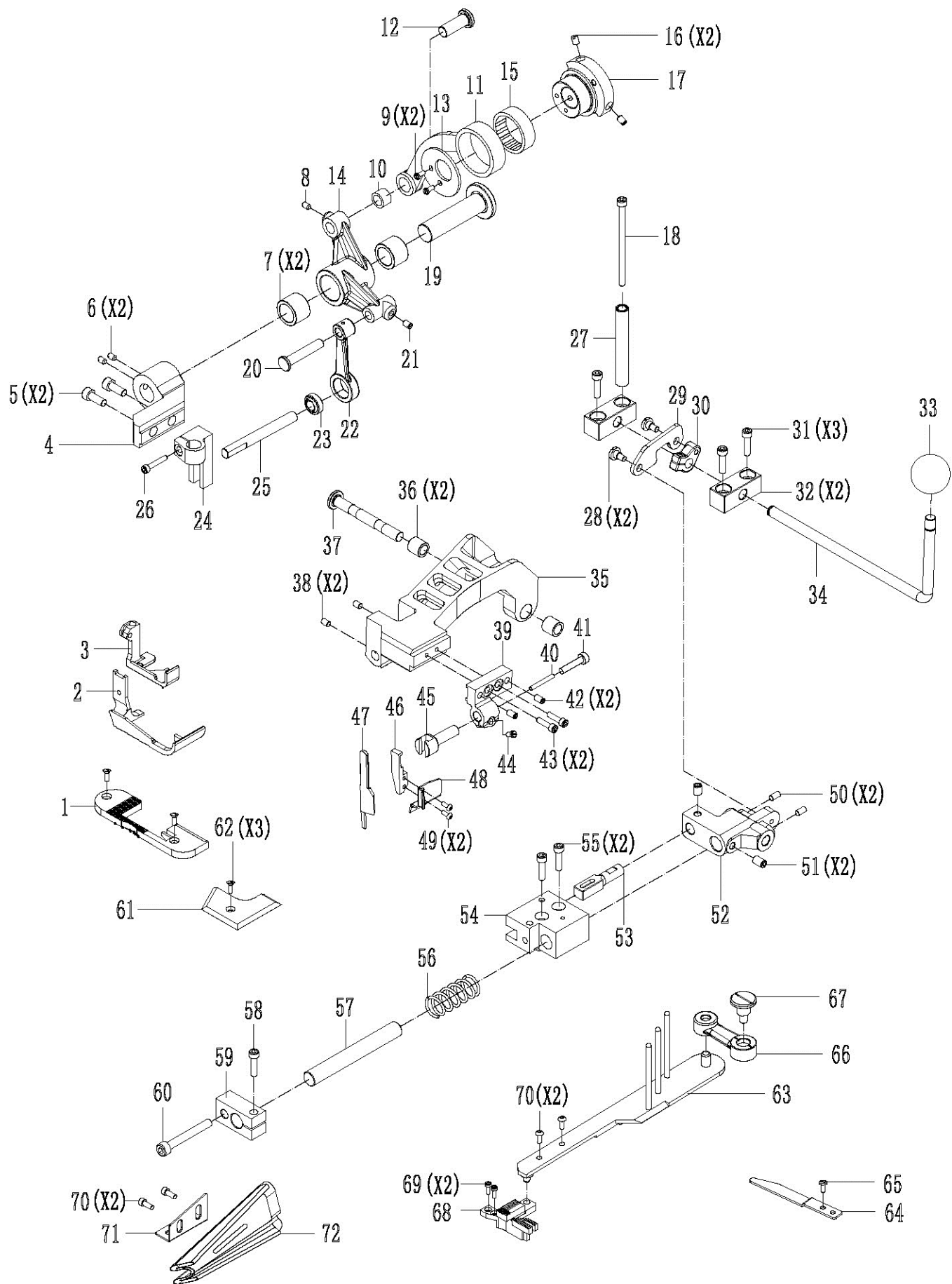


16.ACCESSORIES PARTS COMPONENTS

REF.NO	NOTE	PART NO.	DESCRIPTION	Qty
1		23 - 2001	OIL RESERVOIR	1
2		23 - 2002	SCREW SM15/64" x 28 L = 14	1
3		23 - 2003	SCREW SM11/64" x 40 L = 7.8	1
4		23 - 2004	SCREW SM11/64" x 40 L = 6.5	1
5		23 - 2005	OIL MANAGEMENT	1
6		23 - 2006	WASHER	1
7		23 - 2007	OIL SEAL	1
8		23 - 2008	OIL CAN	1
9		23 - 2009	SCREW M3 x 14	4
10		23 - 2010	NUT M3	4
11		23 - 2011	OIL REMOVING SETSCREW PACKING	8
12		23 - 2012	WASHER	4
13		23 - 2013	CUSHION SET NAIL	10
14		23 - 2310	FELT CUSHION	4
15		23 - 2015	BELT COVER C(JE)	1
16		23 - 2016	WOOD SCREW	2
17		23 - 2311	RUBBER CUSHION	4
18		23 - 2018	BELT COVER (RIGHT)	1
19		23 - 2019	BELT COVER AUXILIARY PLATE	1
20		23 - 2020	BELT COVER (LEFT)	1
21		23 - 2021	BELT COVER SUPPORT A	1
22		23 - 2022	SCREW SM15/64" x 28 L = 30	2
23		23 - 2023	OIL TANK ASM.	1
24		23 - 2024	FILTER	1
25		23 - 2025	FILTER CAP	1
26		23 - 2026	FILTER PLATE	1
27		23 - 2027	OIL TANK	1
28		23 - 2028	COVER(LOWER)	1
29		23 - 2029	SCREW M2 x 10	3
30		23 - 2030	WING NUT	1
31		23 - 2031	RUBBER PLUG	1
32		23 - 2032	FILTER	1
33		23 - 2033	COVER REAR	1
34		23 - 2034	FILTER CASE	1
35		23 - 2035	OIL RESERVOIR MAGNET	1
36		23 - 2036	FILTER PACKING	1
37		5 - 0912	COVER	1
38		5 - 0901	ACCESSORY BOX	1
39		5 - 0903	SCREW DRIVER 3.4 x 70	1
40		23 - 2303	WRENCH 9 x 10	1
41	#01	23 - 2312	RUBBER SPACER	2
42		23 - 2321	SPACER	2
43		23 - 2318	WRENCH 3/32	1
44		23 - 2320	CUSHION	4
45		23 - 2304	NEW DEFRIX OIL	1
46		23 - 2305	OILER	1
47	#01	5 - 0914	HINGE	2
48			NEEDLE SY3355 160	4
49	#02	23 - 0635	BOBBIN	4

NOTE #01.....HEAD ONLY
#02.....FOR 1510N

CUTTING AND BINDING PARTS



PARTS FOR BINDING AND CUTTING		GC1510-AE		
NO.	PART NUMBER	DESCRIPTION	QTY.	REMARK
1	28-1001	NEEDLE PLATE	1	
		NEEDLE PLATE SCREW	2	
2	28-1002	PRESSER FOOT	1	
3	28-1003	INNER PRESSER FOOT	1	
4	28-1004	CRANK BRACKET	1	
5	28-1005	CRANK BRACKET SCREW	2	
6	28-1006	LINK SHAFT SET SCREW	2	
7	28-1007	LINK SHAFT CRANK BUSHING	2	
8	28-1008	LINK SHAFT CRANK SCREW	1	
9	28-1009	COVER PLATE SCREW	2	
10	28-1010	NEEDLE BEARING	1	
11	28-1011	LINK LEVER	1	
12	28-1012	LINK LEVER PIN	1	
13	28-1013	COVER PLATE	1	
14	28-1014	LINK SHAFT CRANK	1	
15	28-1015	NEEDLE BEARING	2	
16	28-1016	SET SCREW	2	
17	28-1017	ECCENTRIC GEAR	1	
18	28-1018	TAPE GUIDE SHAFT SCREW	1	
19	28-1019	LINKING SHAFT	1	
20	28-1020	LINKING LEVER PIN	1	
21	28-1021	SETTING SCREW	1	
22	28-1022	LINKING LEVER	1	
23	28-1023	RADIAL BEARING	1	
24	28-1024	GUIDE BRACKET	1	
25	28-1025	GUIDE BRACKET SHAFT	1	
26	28-1026	GUIDE BRACKET SCREW	1	
27	28-1027	TAPE GUIDE SHAFT	1	
28	28-1028	PULLING PLATE SCREW	2	
29	28-1029	PULLING PLATE	1	
30	28-1030	PULLING PLATE CRANK	1	
31	28-1031	FIX BLOCK SCREW	3	
32	28-1032	FIX BLOCK	2	
33	28-1033	HAND LEVER BALL	1	
34	28-1034	HAND LEVER	1	
35	28-1035	MAIN BRACKET	1	
36	28-1036	MAIN BRACKET BUSHING	2	
37	28-1037	LINKING SHAFT	1	
38	28-1038	SCREW	2	
39	28-1039	SETTING BRACKET	1	
40	28-1040	INNER PIN	1	
41	28-1041	INNER PIN SCREW	1	
42	28-1042	ADJUSTING SCREW	2	
43	28-1043	SETTING BRACKET SCREW	2	
44	28-1044	BLADE BRACKET SETTING SCREW	1	
45	28-1045	BLADE BRACKET	1	
46	28-1046	PROTECT COVER SETTING BRACKET	1	

47	28-1047	BLADE	1	
48	28-1048	PROTECT COVER	1	
49	28-1049	PROTECT COVER SCREW	2	
50	28-1050	SETTING SCREW	2	
51	28-1051	SETTING SCREW	2	
52	28-1052	MAIN BRACKT LINK BASE	1	
53	28-1053	LINK BASE PIN	1	
54	28-1054	SETTING BLOCK	1	
55	28-1055	SETTING BLOCK SCREW	2	
56	28-1056	SPRING	1	
57	28-1057	GUIDE SHAFT	1	
58	28-1058	SETTING BLOCK SCREW	1	
59	28-1059	GUIDE SHAFT SETTING BLOCK	1	
60	28-1060	STOP SCREW	1	
61	28-1061	FRONT PLATE	1	
62	28-1062	FRONT PLATE SCREW	3	
63	28-1063	BINDER SUPPORT	1	
64	28-1064	SETTING PLATE	1	
65	28-1065	SETTING PLATE SCREW	1	
66	28-1066	LINK LEVER	1	
67	28-1067	LINK LEVER SCREW	1	
68	28-1068	FEED DOG	1	
69	28-1069	FEED DOG SCREW	2	
70	28-1070	SET BRACKET SCREW	2	
71	28-1071	BINDER SET BRACKET	1	
72	28-1072	BINDER	1	