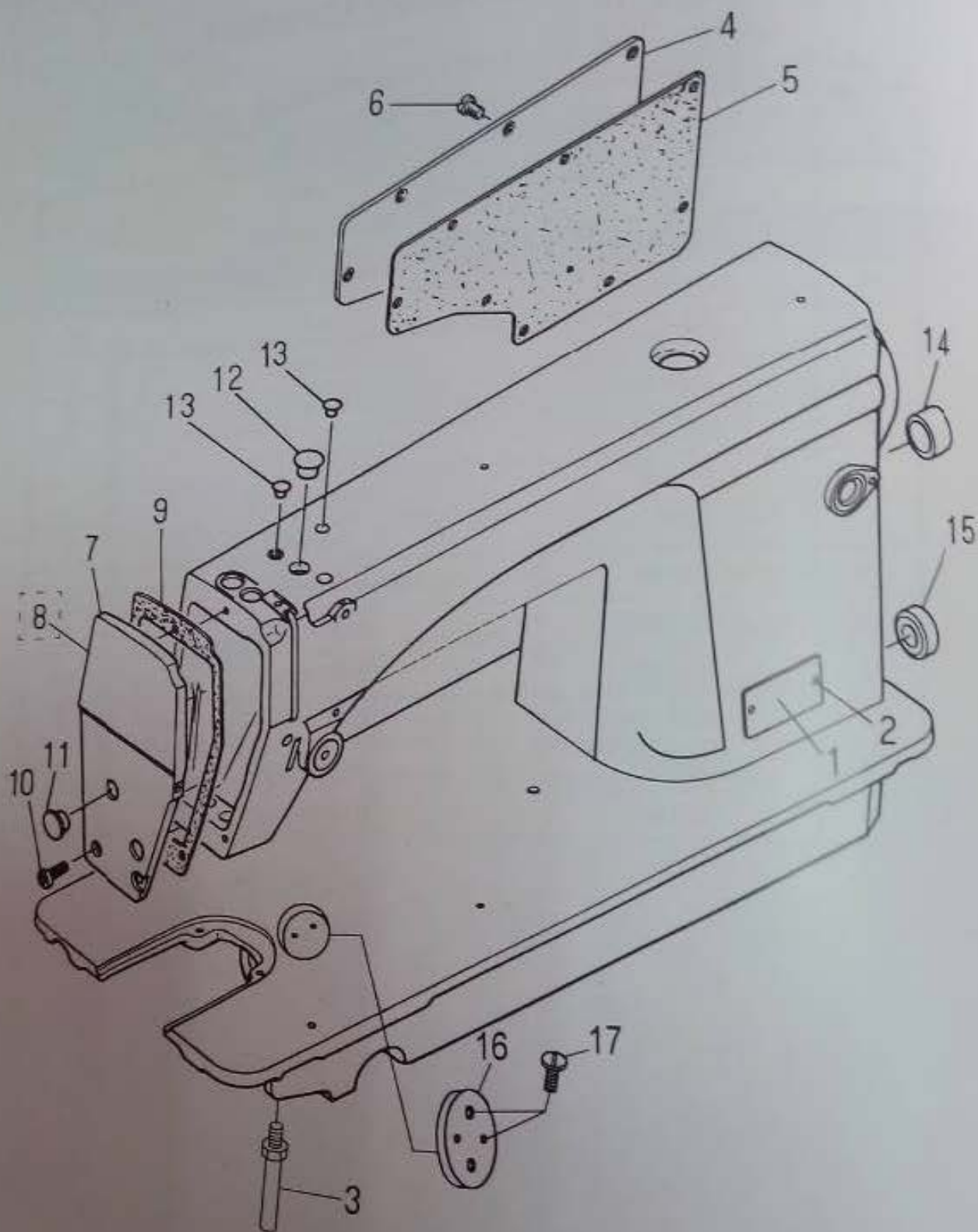


Parts Book

For Medium Heavy Materials

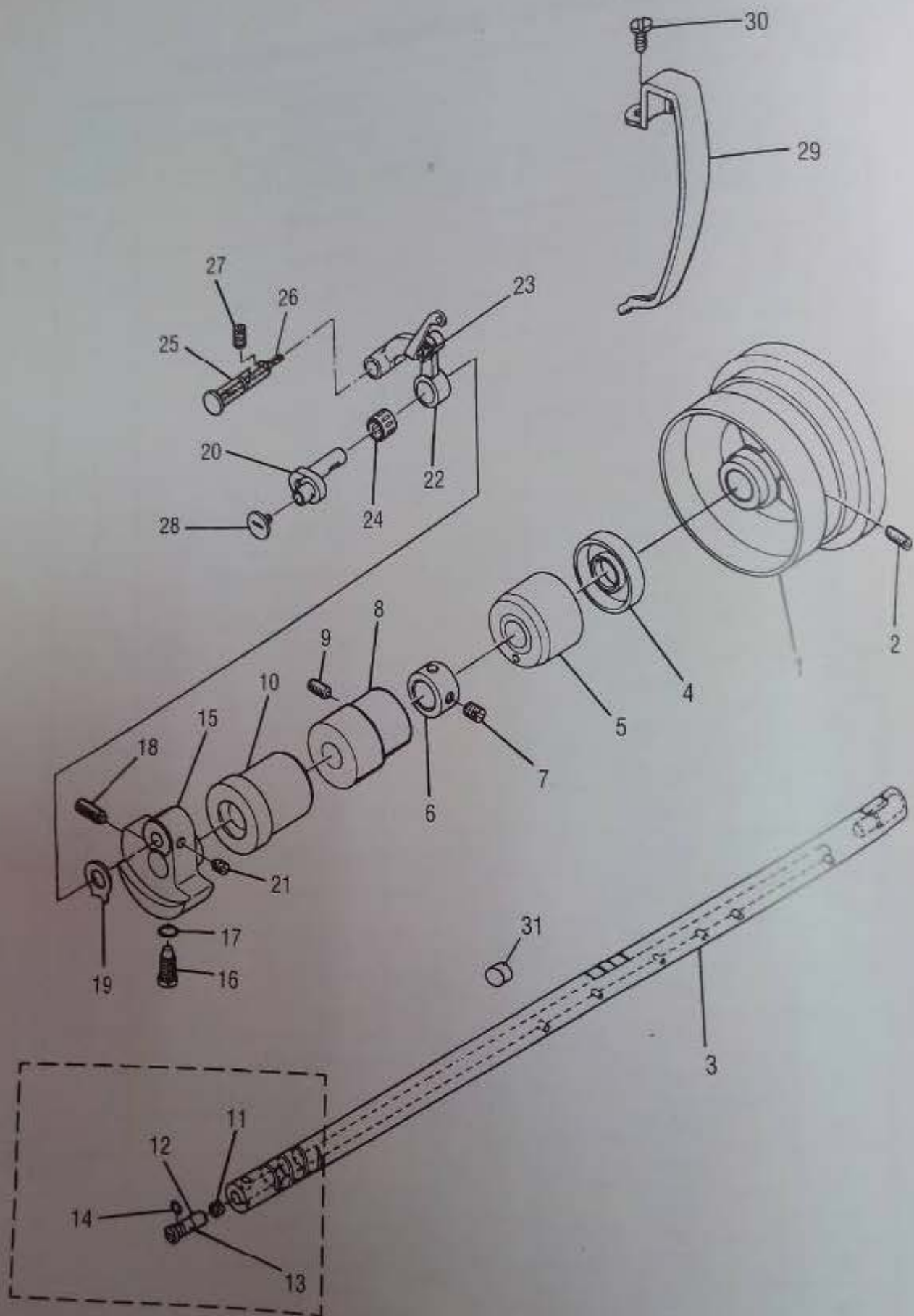
1. Arm bed components

Ref.No.	Part NO.	Description	Amt.
1	GQ276	Model plate	1
2	GX565	Model plate rivet	2
3	GS0548	Bed screw stand	4
4	GK239	Side plate	1
5	GR3340	Gasket	1
6	GS053	Screw 12/64-28 L=9	8
7	GR3342	Face plate arm	1
8	GQ277	Decorative plate	1
9	GR3343	Gasket	1
10	GS053	Screw 12/64-28 L=9	3
11	GR1458	Rubber plug	2
12	GR1463	Rubber plug	1
13	GR3344	Rubber plug	2
14	GR3345	Rubber plug	1
15	GR1464	Rubber plug	1



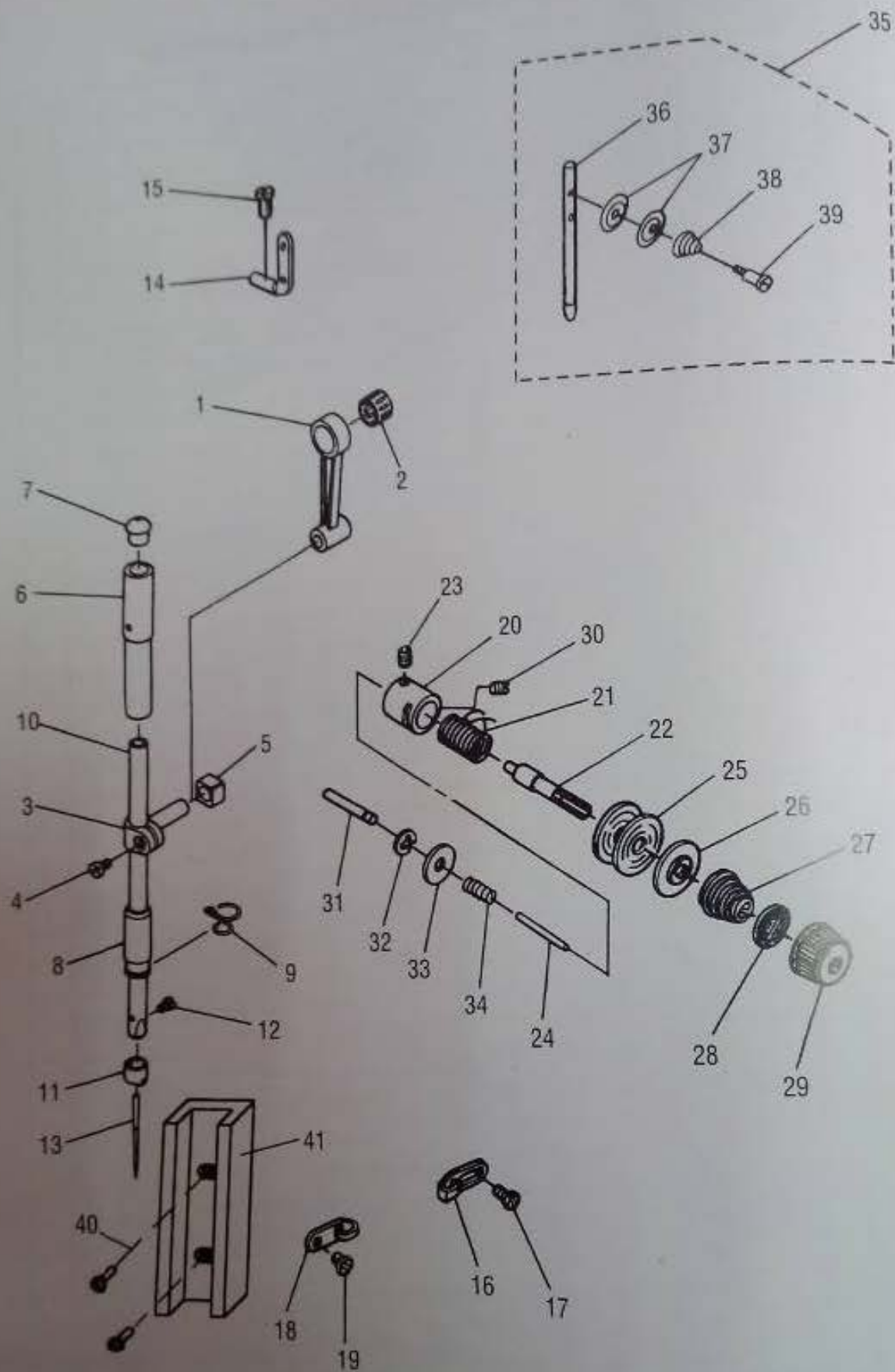
2. Main shaft & thread take-up components

Ref.No.	Part No.	Description	Amt.
1	GP166	Hand wheel	1
2	GS03	Screw 15/64-28 L=15	2
3	GZ431	Main shaft	1
4	GR3346	Main shaft	1
5	GO462	Main shaft bushing, rear	1
6	GR1469	Thrust collar asm	1
7	GS39	Screw 1/4-40 L=6	2
8	GO463	Bushing, intermediate	1
9	GS0549	Screw	1
10	GO464	Main shaft bushing, front	1
11	GR1470	Roller felt	1
12	GX334	Oil amount adjusting pin, asm	1
13	GO269	Rubber pushpin	1
14	GR1471	Rubber ring	1
15	GH561	Counterweight	1
16	GS06	Screw 1/4-40 L=6	1
17	GR1472	Rubber ring	1
18	GS0550	Screw 9/32-29 L=16	1
19	GR1473	Counterweight protecting plate	1
20	GH402/2	Needle bar crand asm	1
21	GS39	Screw 1/4-40 L=6	2
22	GH564/4	Thread take-up lever asm	1
23	GR3349	Rubber	1
24	GO270	Needle bearing	1
25	GX566	Thread take-up crank shaft	1
26	GR3350	Oiling wick	1
27	GS04	Screw 15/64-28 L=10.5	1
28	GS09	Screw (left twist) 9/64-40 L=4.8	1
29	GK240	Thread take-up lever cover	1
30	GS551	Screw 3/16-28 L=6	1
31	GR0231	Rubber plug	1



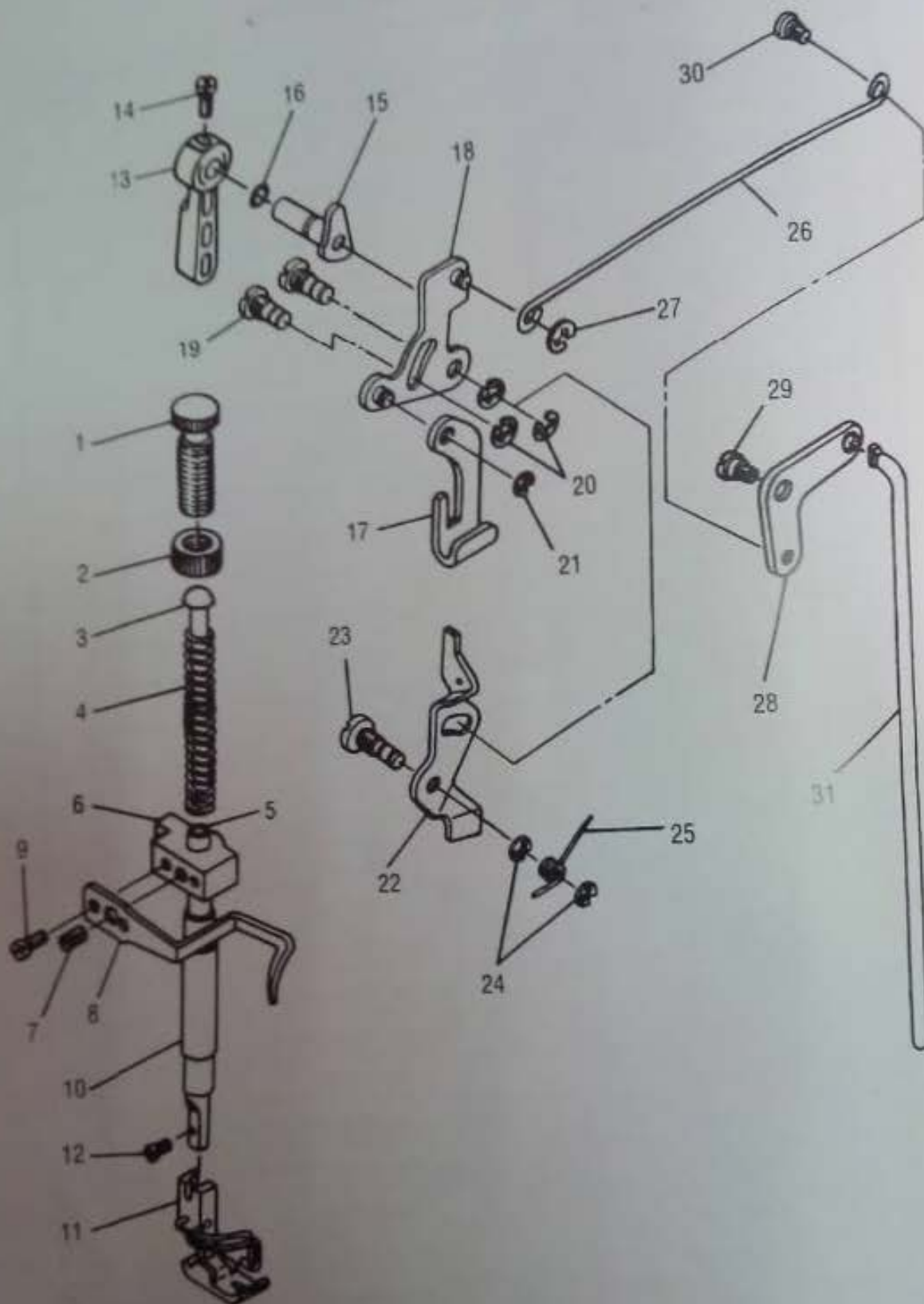
3. Needle bar & thread tension components

Ref.No.	Part No.	Description	Amt.
1	GH334	Needle bar crank rod	1
2	GO270	Needle bearing	1
3	GR1478	Needle bar connection asm	1
4	GS011	Screw 9/64-40 L=6	1
5	GU168	Slide block	1
6	G0271	Needle bar bushing, upper	1
7	GR1479	Cap	1
8	GO272	Needle bar bushing, lower	1
9	GR3351	Needle bar thread guide	1
10	GZ432	Needle bar	1
11	GR3352	Needle bar thread guide	1
12	GS071	Screw 1/8-44 L=4.5	1
13	GV15	Needle (DB x 1#14)	1
14	GR3353	Two-hole thread eyelet	1
15	GS0551	Screw 3/16-28 L=6	1
16	GR3354	Frame thread guide, right	1
17	GS0552	Screw 11/64-40 L=6	1
18	GR3355	Frame thread guide, left	1
19	GS0551	Screw 11/64-40 L=6	1
20	GR1487	Tension post socket	1
21	GW250	Take-up spring	1
22	GS015	Screw	1
23	GS016	Set screw 9/64-40 L=5.5	1
24	GX567	Thread release pin	1
25	GR1488	Tension disc	2
26	GR1489	Tension disc holder	1
27	GW251	Tension spring	1
28	GR1490	Tension disc stopper	1
29	GL0113	Tension nut	1
30	GS48	Screw 15/64-28 L=7	1
31	GX568	Tension release supporting pin	1
32	GR1717	Snap ring	1
33	GR3357	Washer plate	1
34	GW432	Tension release pin spring	1
35	GR1491/5	Needle thread guide pin asm	1
36	GR149	Needle thread guide pin	1
37	GR1493	Tension disc	2
38	GW252	Tension spring	1
39	GS017	Hinge screw	1
40	GS0340	Slide block	2
41	GR0341	Needle bar through	1



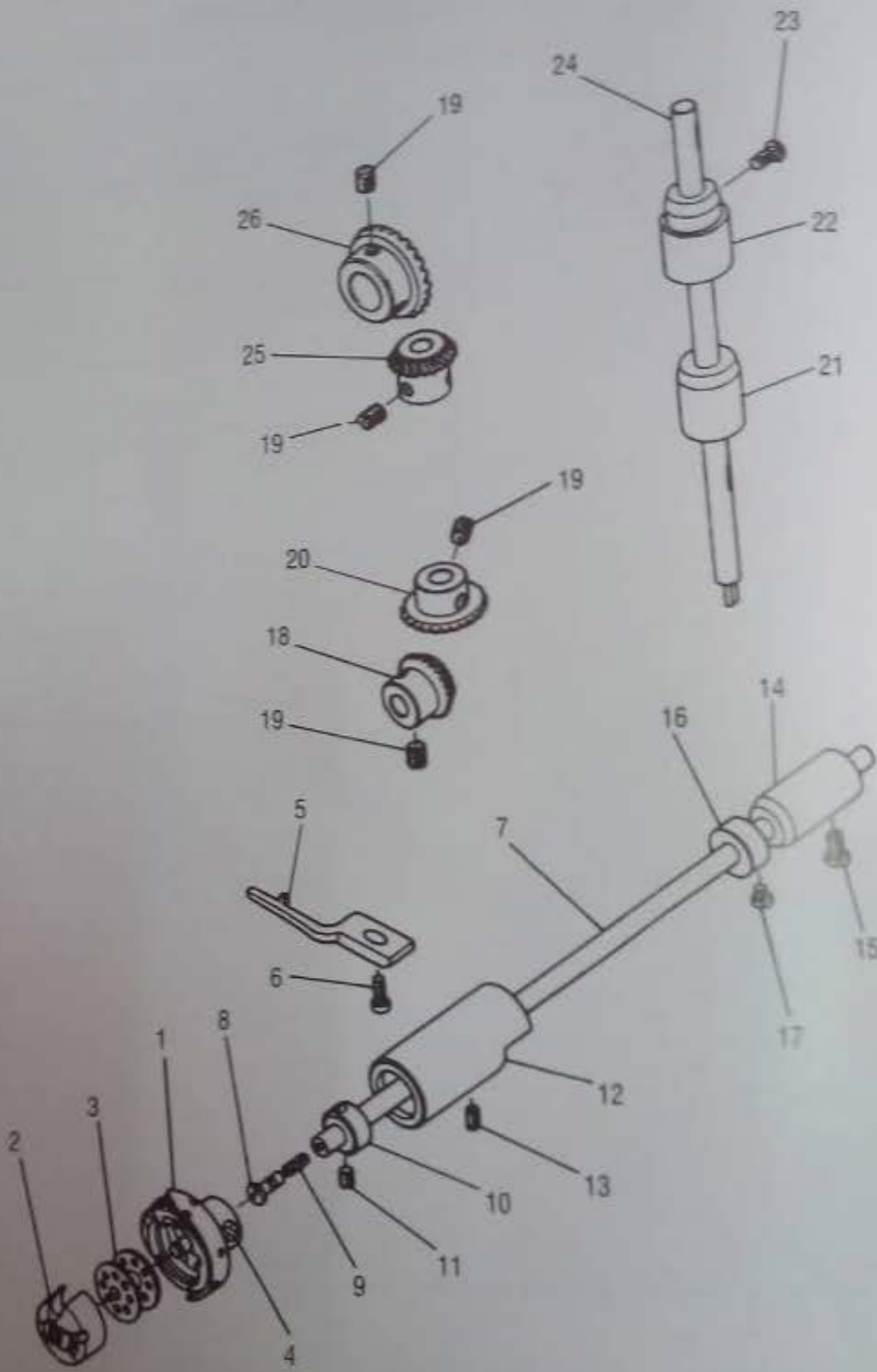
4. Presser bar components

Ref. No.	Part No.	Description	Amt.
1	GS0553	Presser spring regulator	1
2	GL0114	Nut	1
3	GR1494	Presser guide bar	1
4	GW253	Presser spring	1
5	GZ275	Presser bar	1
6	GR3358	Needle bar guide bracket	1
7	GS033	Screw 1/4-40 L=8	1
8	GR3359	Presser bar thread guide	1
9	GS0100	Screw 9/64-40 L=8.5	2
10	GO273	Presser bar bushing lower	1
11	GM200/5	presser foot asm	1
12	GS020	Screw 9/64-40 L=10.5	1
13	GR3360	Hand lifter	1
14	GS0554	Screw	1
15	GR3361/2	Hand lifter cam asm	1
16	GR1503	Rubber ring	1
17	GR3363	Lifting lever	
18	GR3364/3	Hand lifter link asm	1
19	GS0555	Link shaft	2
20	GR1510	snap ring	3
21	GR3366	lifting lever ring	1
22	GR3367	tension release plate	1
23	GS0556	Tension release shaft	1
24	GR1510	Snap ring	2
25	GW433	Tension release return spring	1
26	GR3368	Lifting lever connection rod	1
27	GR1510	Snap ring	1
28	GR3369	Lifting lever link	1
29	GS0557	Hinge screw	1
30	GS0558	Hinge screw	1
31	GR3370	Connection rod vertical	1



5. hook driving shaft compinents

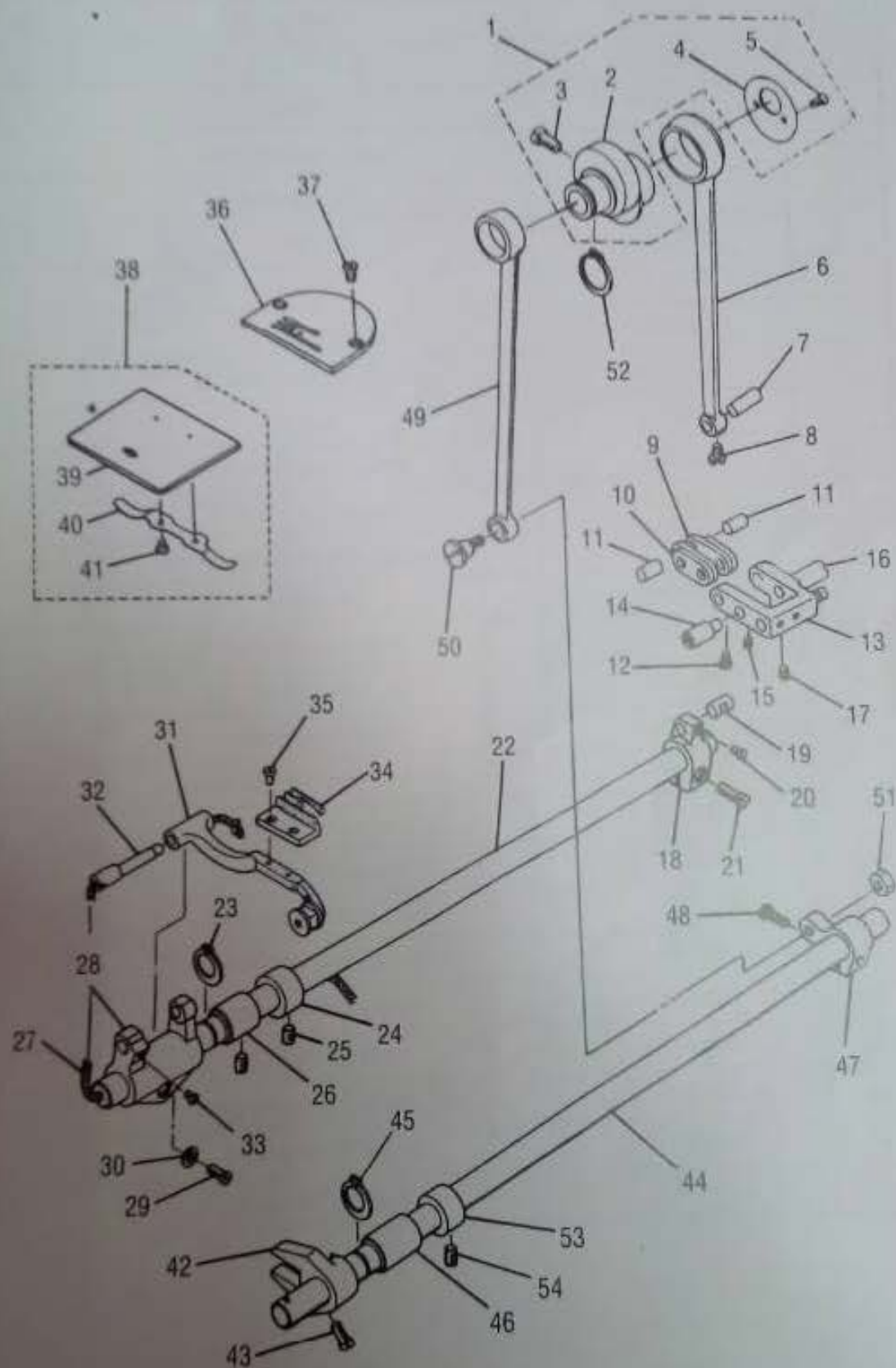
Ref. No.	Part No.	Description	Amt.
1	GN161	Hook asm.	1
2	GN162	Bobbin case asm.	1
3	GN163	Bobbin	1
4	GS029	Screw	2
5	GR3371	Positioning finger	1
6	GS030	Screw 11/64-40 L=9.5	1
7	GZ434	Hook driving shaft	1
8	GS031	Oil seal screw	1
9	GR1515	Oil wick	1
10	GR3372	Thrust collar	1
11	GS032	Screw 11/64-40 L=3.5	2
12	GO331/3	Bushing asm front	1
13	GS0559	Screw	1
14	GO470	Bushing, rear	1
15	GS053	Screw 12/64-28 L=9	1
16	GR1519	Thrust collar asm.	1
17	GS082	Screw 11/64-40 L=4.8	2
18	GC165	Pinion asm	1
19	GS033	Screw 1/4-40 L=8	8
20	GC166	Gear asm large	1
21	GO471	Upright shaft bushing, ower	1
22	GO472	Bushing, upper	1
23	GS053	Screw 12/64-28 L=9	1
24	GZ435	Upright shaft	1
25	GC167	Pinion asm.	1
26	GC168	Gear asm.	1



6. Feed mechanism components

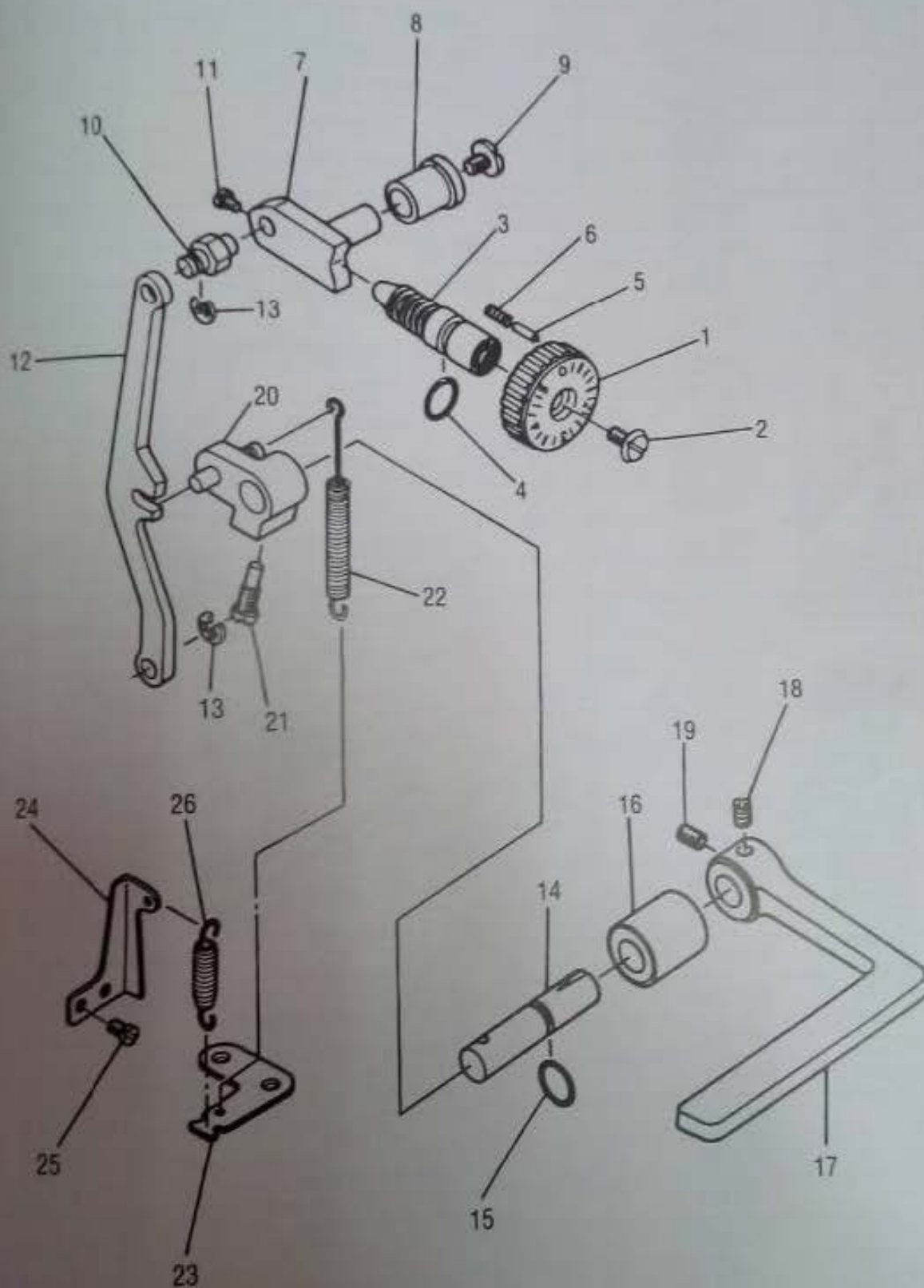
Ref. No.	Part No.	Description	Amt.
1		Feed drive eccentric cam asm.	1
2	GT198	Feed drive eccentric cam.	(1)
3	GS034	Screw 1/4-40 L=11	(2)
4	GR3373	Thrust collar	(1)
5	GS011	Screw 9/64 L=6	(2)
6	GH568	Rocker shaft connection rod	1
7	GX570	Walking foot pin	1
8	GS0560	Screw 9/64-40 L=6	1
9	GR3374	Walking foot link	2
10	GR3375	Connection link	2
11	GX571	Walking foot pin	2
12	GS0560	Screw 9/64-40 L=6	2
13	GR3376/2	Walking foot adjusting link	1
14	GX573	Adjusting link fulcrum shaft	1
15	GS48	Screw 15/64-28 L=7	1
16	GX573	Adjusting link fulcrum shaft	1
17	GS48	Screw 15/64-28 L=7	1
18	GH569	Feed rocker shaft crank asm.	1
19	GX571	Walking foot pin	1
20	GS0560	Screw 9/64-40 L=6	1
21	GS0561	Screw 3/16-28 L=14	1
22	GZ436	Feed rocker shaft	1
23	GR1524	Retaining ring	1
24	GR1469	Thrust collar asm	1
25	GS39	Screw 1/4-40 L=6	2
26	GO473	Feed tocker shaft bushing	1
27	GR3378	Oil wick	1
28	GR3379	Feed rocker asm.	1
29	GS69	Screw 3/16-28 L=14	1
30	GR1528	Washer	1

Ref. No.	Part NO.	Description	Amt.
		Feed bar asm.	1
31	GR3380/5	Feed bar shaft	1
32	GX575	Screw 11/64-40 L=7	1
33	GS092	Feed dog	1
34	GM201	Screw 1/8-44 L=6	2
35	GS072	Throat plate	1
36	GM202	Screw 11/64-40 L=8.5	2
37	GS044	Bed slide asm	1
38	GM340/4	Slide plate	(1)
39	GM204	Bed slide spring	(1)
40	GW434	Screw 3/32-56 L=1.9	(2)
41	GS045	Driving shaft crank asm. front	1
42	GH570	Screw 11/64-40 L=10.5	1
43	GS037	Feed driving shaft	1
44	GZ437	Retaining ring	1
45	GR1524	Feed rocker shaft bushing	1
46	GO336	Rear crank asm.	1
47	GH571	Screw 3/16-28 L=12	1
48	GS0561	Connectiong rod	1
49	GH572	Hinge screw	1
50	GS0562	Nut 9/32-28	1
51	GL7	Snap ring	1
52	GR1535	Thrust collar asm.	1
53	GR1469	Screw 1/4-40 L=6	2
54	GS39		



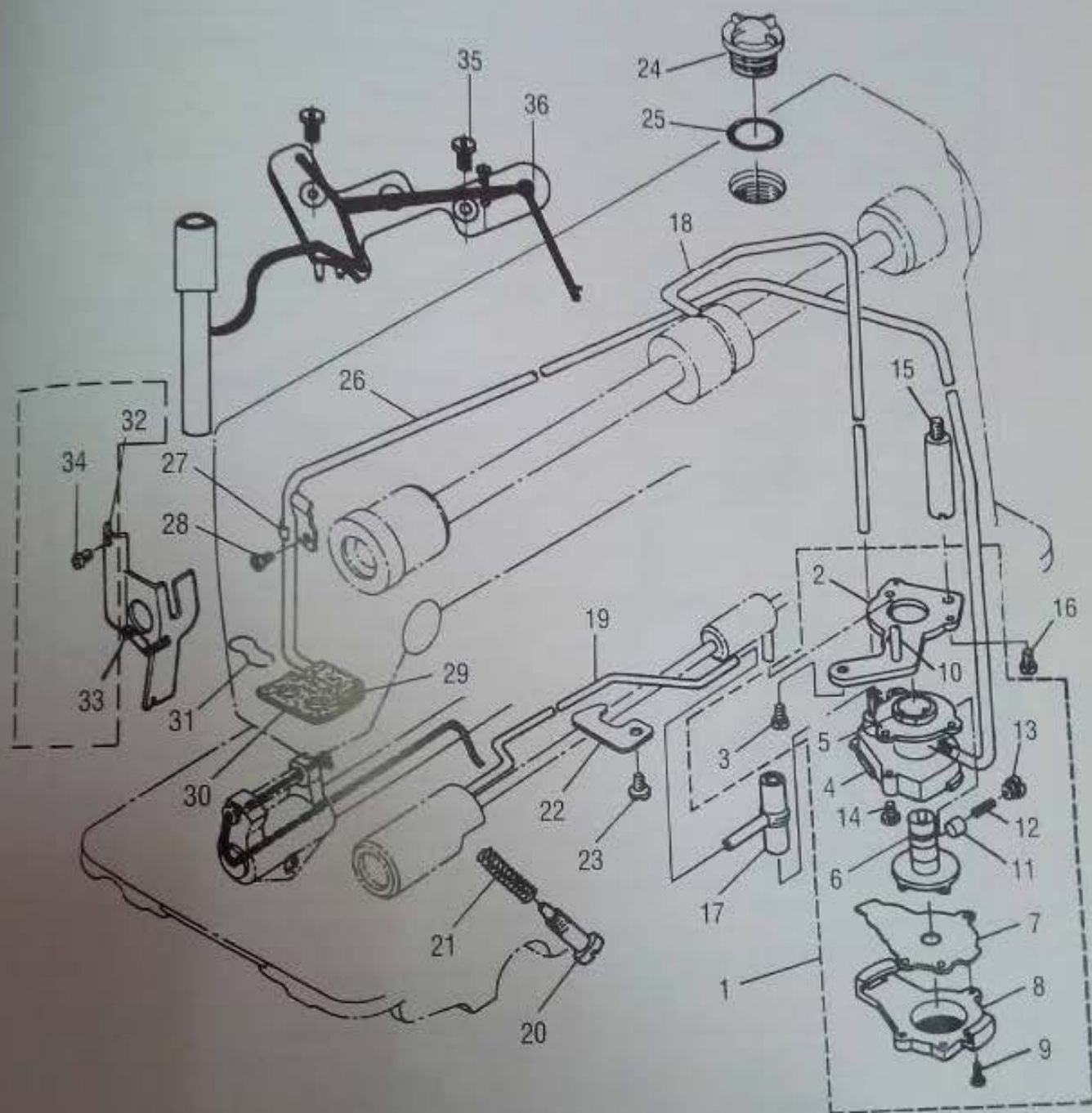
7. Feed regulating components

Ref. No.	Part No.	Description	Amt.
		Feed dial	11
1	GR3382	Screw	1
2	GS0563	Feed regulator screw	1
3	GS0564	Rubber ring	1
4	GR3383	Pin	1
5	GX576	Spring	1
6	GW257	Feed regulator	1
7	GR3384	Feed regulator bushing	1
8	GO474	Screw	1
9	GS0565	Feed regulator pin	1
10	GX577	Screw 9/64-40 L=6	2
11	GS011	Feed regulator connection rod	1
12	GH573	Snap ring	2
13	GR1510	Feed reverse shaft	1
14	GZ438	Rubber ring	1
15	GR3385	Feed lever metal	1
16	GO475	Reverse feed control lever	1
17	GR3386	Screw 1/4-40 L=10	1
18	GS050	Screw 1/4-40 L=8	1
19	GS033	Feed reverse arm asm.	1
20	GH574/2	Feed reverse arm screw	1
21	GS0566	Feed reverse spring	1
22	GW435	Feed spring hook	1
23	GR3387	Adjusting link spring guide	1
24	GR3388	Screw 11/64-40 L=5	2
25	GS0567	adjusting link spring	1
26	GW436		



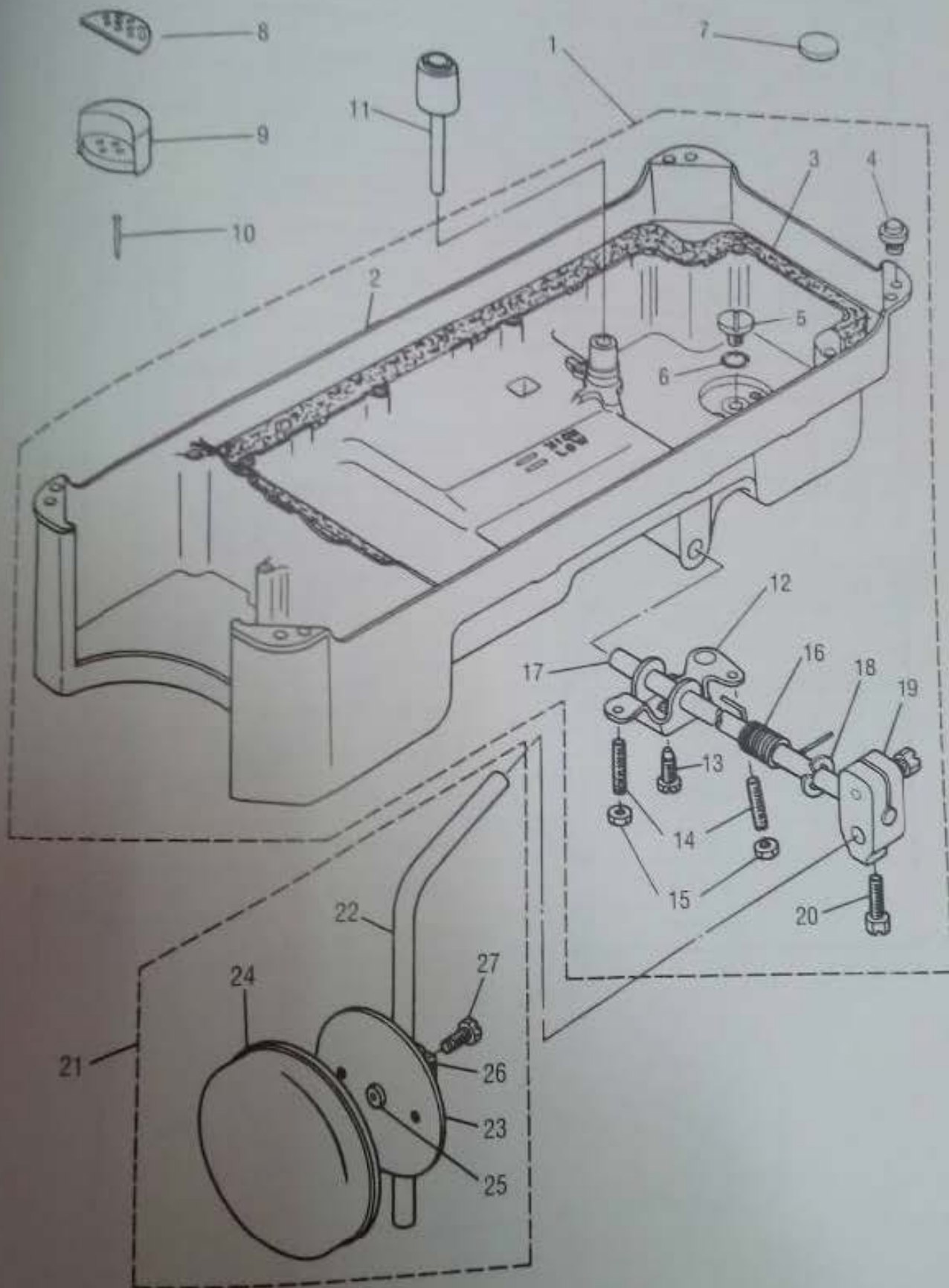
8. Lubrication compoents

Ref. NO.	Part No.	Description	Amt.
1	GR3389/12	Lubrication oil pump asm.	1
2	GR3390	Oil pump installing base	1
3	GS0568	Screw 15/64-28 L=9	3
4	GR3391	Oil pump	1
5	GO476	Oil pump bushing	1
6	GR3392	Oil pump impeller	1
7	GR3393	Oil pump impeller cover	1
8	GR3394	Lubrication oil pump cover	1
9	GS554	Screw	3
10	GR3395	Hook driving shaft oil rube	1
11	GR3396	Plunger	1
12	GW437	Plunger spring	1
13	GS0569	Plunger screw	1
14	GS062	Screw	1
15	GS0567	Oil pump support	1
16	GS030	Screw 11/64-40 L=9.5	1
17	GR3397	Rubber joint	1
18	GR3398	Main shaft oil tube	1
19	GR339	Oil tube	1
20	GS054	Oil adjusting screw	1
21	GW259	Spring	1
22	GR3400	Tube holder (lower)	1
23	GS062	Screw 15/64-28 L=9	1
24	GR1561	Oil sight window	1
25	GR1562	Rubber ring	1
26	GR3401	Oil return tube	1
27	GR1566	Oil return tube holder	1
28	GS0551	Screw 3/16-28 L=6	1
29	GR1567	Anti-dust oil felt	1
30	GR1568	Oil felt	1
31	GR1569	Oil felt presser	1
32	GR3403	Arm oil shield	1
33	GR3404	Oil wick	1
34	GS44	Screw 1/8-44 L=4	1
35	GS0835	Oil wick setplate screw	2
36	GR0836	Oil wick setplate asm	1



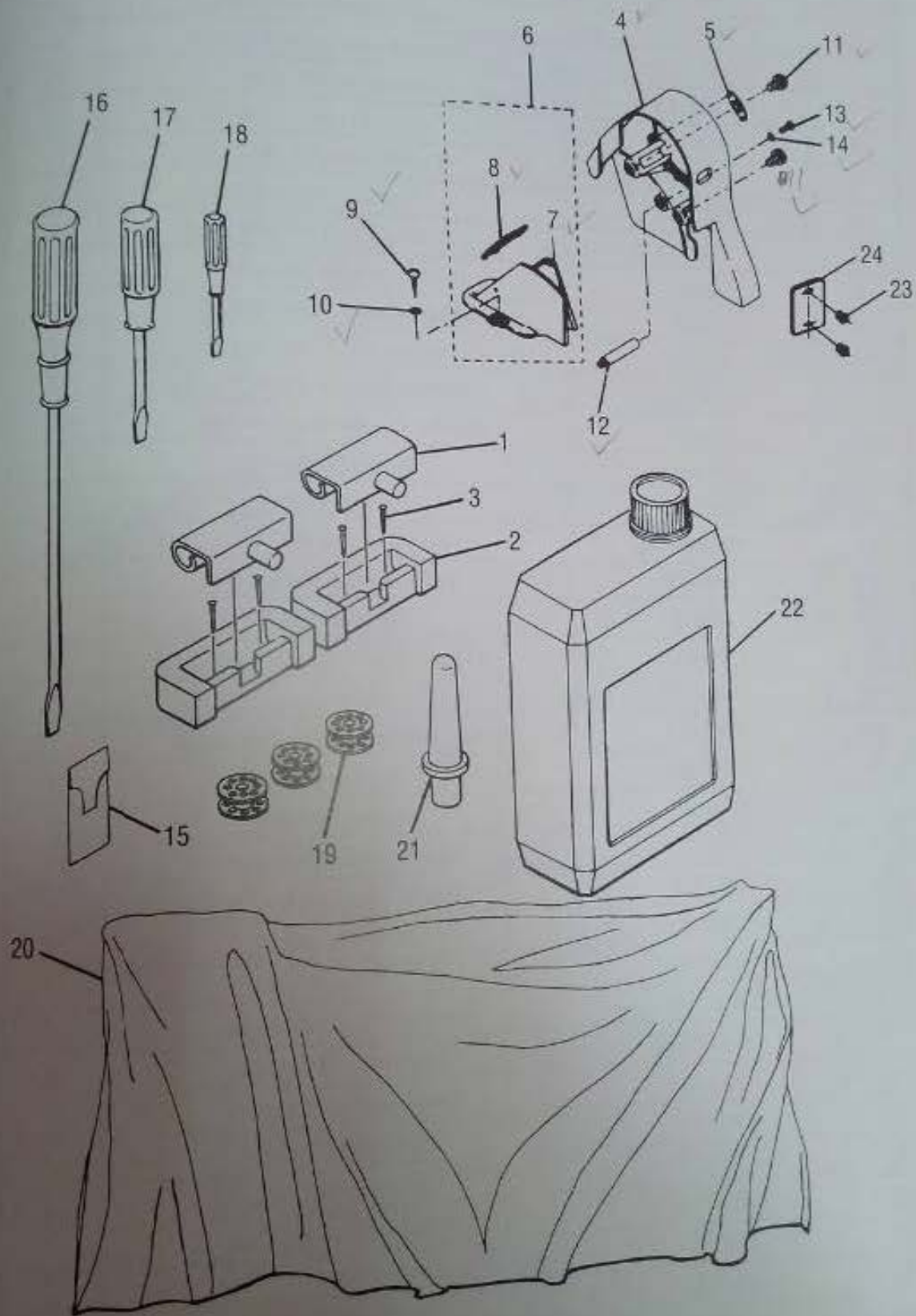
9. Oil reservoir & knee lifter components

Ref.No.	Part No.	Description	Amt.
1	GR3405/17	Oil reservoir asm.	1
2	GR3406	Oil reservoir	1
3	GR3407	Gasket	1
4	GR3408	Rubber cushion	4
5	GS0571	Screw	2
6	GR3409	Rubber ring	2
7	GR1576	Oil reservoir magnet	1
8	GR1578	Oil reservoir felt cushion	2
9	GR1579	Oil reservoir rubber cushion	2
10	GBX108	Nail	4
11	GH579	Knee press lifter rod	1
12	GH576	Connection rod, vertical	1
13	GS0572	Screw	1
14	GS057	Screw 15/64-28 L=30	2
15	GL21	Nut 15/64-28	2
16	GW438	Spring	1
17	GZ439	Knee press rod	1
18	GR1583	Snap ring	1
19	GR3410	Bearing bracket	1
20	GS0573	Screw 9/32-20 L=20	2
21	GR3411/6	Knee press plate asm.	1
22	GR1586	Knee lifter plate rod	1
23	GR3412	Knee press plate	1
24	GKR13	Knee press plate cover	1
25	GR3413	Rubber	1
26	GR3414	Knee press plate holder	1
27	GS584	Screw 15/64-28 L=15	1



10. Machine head accessories (1)

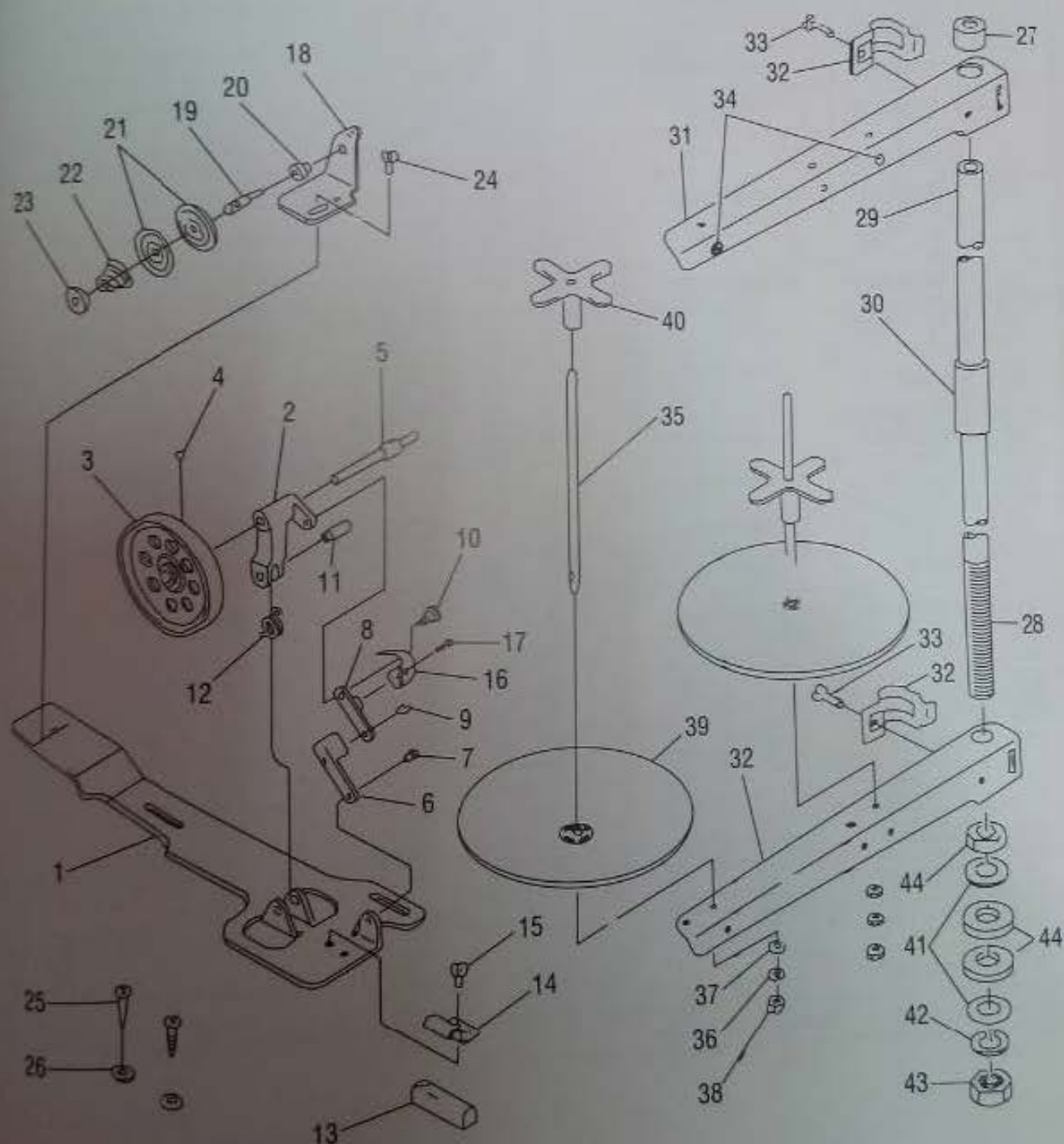
Ref. NO	Part No.	Description	Amnt.
1	GR15902	Machine hinge plate asm.	2
2	GBX105	Machine hinge plate	2
3	GK241	Nail	4
4	GR3415	Beltcover, A	1
5	GK242/3	Beltcover, A cap	1
6	GK243	Beltcover, B asm.	1
7	GK242/2	Beltcover, B	1
8	GBS120	Beltcover, B cover asm.	1
9	GBR147	Wood screw D=4.5 L=20	2
10	GS0574	Washer	2
11	GS0575	Beltcover, A screw	2
12	GS0576	Beltcover support	1
13	GS0576	Screw 3/16-28 L=14	1
14	GR3417	Washer	1
15	GV15	Needle	1 ^{ea}
16	GR1610	Screw driver, large	1
17	GR1602	Screw driver, medium	1
18	GR1603	Screw driver, small	1
19	GN163	Bobbin	3
20	GF424	Machine head cover	1
21	GBR148	Machine rest pin	1
22	GR16043	Oil reservoir asm.	1



10. Machine head accessories (2)

Ref. No.	Part No.	Description	Amt.
1	GR3419	Bobbin winder base asm.	1
2	GR3420	Thread winder base asm.	1
3	GP167	Thread winder asm.	1
4	GS013	Screw	1
5	GZ284	Bobbin winder shaft	1
6	GR3421	Connection rod	1
7	GX347	Connection rod pin	1
8	GR3422	Bobbin winder frame rod	1
9	GX347	Bobbin winder frame rod pin	1
10	GS063	Screw 1/8-44 L=12.5	1
11	GX348	Bobbin winder frame pin	1
12	GW263	Bobbin winder frame spring	1
13	GR1613	Rubber brake	1
14	GR3423	Presser plate	1
15	GS061	Screw 11/64-40 L=3	1
16	GW439	Bobbin winder spring	1
17	GS065	Hinge screw	1
18	GR3425	Thread tension bracket asm.	1
19	GS0577	Screw	1
20	GR1617	Bobbin winder tension disc collar	1
21	GR1488	Tension disc	2
22	GW265	Tension spring	1
23	GL22	Thread tension stud nut	1
24	GS0578	Screw 11/64-40 L=7.8	1
25	GBS120	Wood screw	2
26	GBR147	Washer	2
27	GR1744	Spool rest rod rubber cap	1
28	GZ315	Spool rest rod (lower)	1
29	GZ316	Spool rest rod (upper)	1
30	GR1932	Spool rested joint	1
31	GR1825	Thread guide asm.	2
32	GR1745	thread guide asm joint	2
33	GS558	Screw	2
34	GR1748	Thread guide ring	2
35	GS067	Spool pin	2
36	GR1625	Spring washer	2

Ref. No.	Part No.	Description	Amt.
37	GR1626	Washer	2
38	GL23	Nut	2
39	GR1811	Spool rest	2
40	GR1215	Spool vibration stopper	2
41	GR1696	Washer	2
42	GR1751	Spring washer	1
43	GL158	Nut	2
44	GR1753	Rubber washer	2



11. Machine stand, table & electric appliance components*

Ref. No.	Part No.	Description	Amt.	Ref. No.	Part No.	Description	Amt.
1	GKR302/5	Stand side asm. left	1	31	GKW301	Spring	1
2	GKB305/5	Stand side asm. right	1	32	GKR118	Pitman rod, upper	1
3	GKR318	Rubber cushion	4	33	GKR183	Joint	1
4	GKL104	Nut	4	34	GKS110	Joint screw	1
5	GKR196/2	Screw	4	35	GKL101	Joint nut	1
6	GKR198	Space ring	4	36	GKX101	Pitman rod split pin (upper)	1
7	GKR309	Stand side support	1	37	GBS114	Table wood screw	4
8	GKS110	Screw	4	38	GBR112	Table wood screw washer	4
9	GKR106	Spring washer	4	39	GKR186	Table washer	4
10	GKR122	Washer	8	40	GBR150	Table	1
11	GKL101	Nut	4	41	GBR151	Drawer	1
12	GKR310	Treadle brace	1	42	GBR152	Drawer rail	2
13	GKS110	Screw	2	43	GBS121	Drawer rail wood screw	6
14	GKR106	Spring washer	2	44	GD234	Motor GFC4024 motor	1
15	GKR122	Washer	2	45	GD219	Motor connection wire plug	1
16	GKR311	Treadle brace locknut plate	2	46	GD108	Motor wire	1
17	GKX301	Treadle shaft	1	47	GD233	Motor pulley	1
18	GKR317	Treadle bracket	2	48	GE122	Machine driving belt	1
19	GKS110	Screw	2	49	GKS122	Motor & table connecting screw	3
20	GKR122	Washer	4	50	GKR209	Motor & table connecting washer	3
21	GKR106	Spring washer	2	51	GKR106	Motor & table connecting spring washer	3
22	GKL101	Nut	2	52	GKL101	Motor & table connecting nut	3
23	GKR312	Treadle	1	* * 53	GD227	Power source switch	1
24	GKR313	Gasket	1	54	GBS104	Power source switch wood screw	2
25	GKR314	Collar	2				
26	GKR315	Treadle pitman	1				
27	GKS102	Screw	2				
28	GKR112	Washer	4				
29	GKL102	Nut	2				
30	GKR316	Pitman rod, lower	1				

* Note that parts above mentioned shall be purchased in a separate order

* * Part No. GD236 Motor pulley is for Model

For Heavy Weight Materials

Ref. No.	Part No.	Description	Amt.
1	GH579/3	Link thread take-up lever asm.	1
2	GH580	Needle bar crank H	1
3	GR1644	Thread guide pin	1
4	GO288	Needle bar bushing, lower	1
5	GR1632	Needle bar thread guide	1
6	GZ441	Needle bar	1
7	GR3431	Needle bar thread guide	1
8	GV17	Needle (DB x 1#21)	1
9	GW269	Presser spring	1
10	GR3433/10	Thread tension asm.	1
11	GW268	Tension spring	1
12	GR3432	Arm thread guide (HA)	1
13	GW440	Adjust link spring	1
14	GR3434	Positioning finger	1
15	GM210	Throat plate (H)	1
16	GM209	Feed dog (H)	1
17	GM208/5	Hinged presser foot asm.	1
18	GR1646	Presser foot asm.	1
19	GN197	Lubricating bobbin asm.	1
20	GS069	Screw 1/8-44 L=25	1
21	GR3435	Feed spring hook	1