

Industrial sewing machine
工業用縫紉機

Exploded drawing & Instruction manual
零件分解圖 & 使用說明書

BM-1528

筒式上下复合送料人字车

Cylinder Top And Bottom Feed Zigzag
Sewing Machine

BM-1528S

筒式上下复合送料人字车(小筒径)

Cylinder Top And Bottom Feed Zigzag
Sewing Machine (SMALL DIAMETER)

BEYOUNG®

【Notes for using this parts manual】

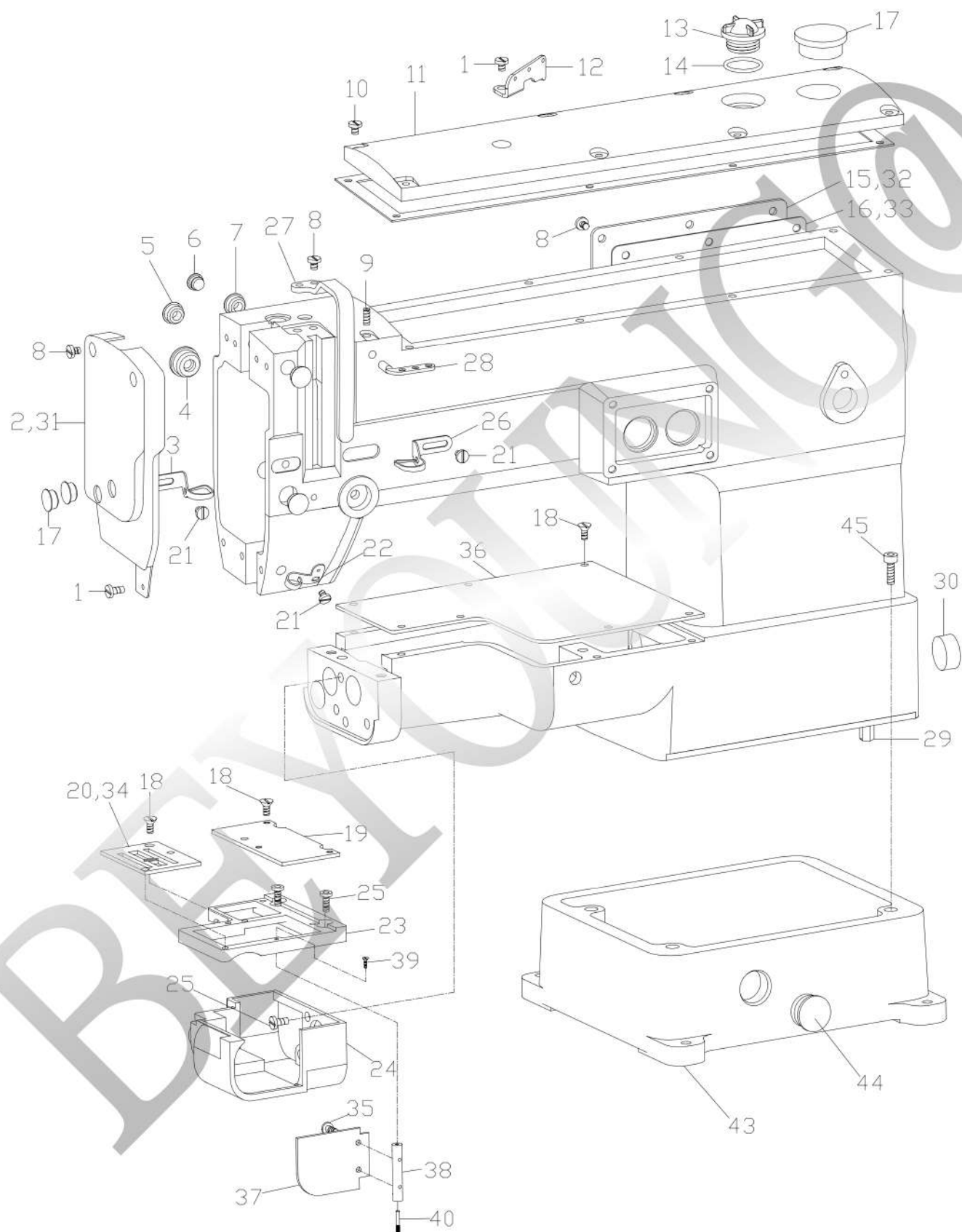
1. This manual was prepared based on information available in March 2018
2. Parts are subject to changes in design without prior notification
3. Parts supplied as complete assembly are circle by a dotted line

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A.Machine body/本體外觀

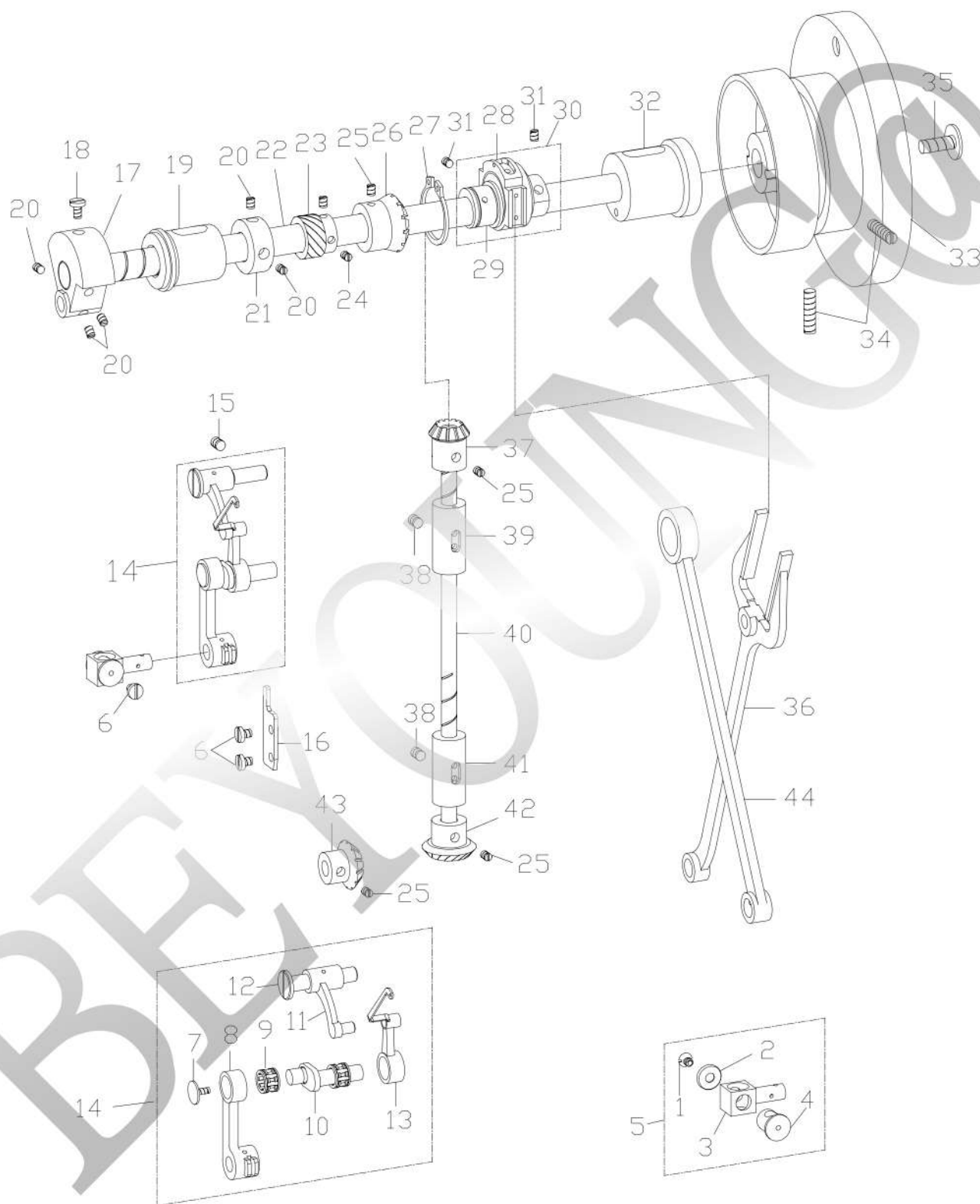


A.Machine body/本題外觀

NO.	P/N	DESCRIPTION	Q'TY
1	Y43-D8X6	screw 11/64-40x5	3
2	1530A-2	1312 front plate	1
3	1530A-3	arm thread guide (left)	1
4	P11. 8X5	rubber cap (D=11)	2
5	P10. 8X4	rubber cap (D=10)	1
6	P15. 8X6	rubber cap (D=14.5)	2
7	P8. 8X5	rubber cap (D=8)	2
8	Y43-D7X7	screw 11/64-40x7	8
9	Y43-D0X6	screw 11/64-40x7	1
10	Y43-D7X9	screw 11/64-40x7	8
11	1530A-11	top cover	1
12	1530A-12	thread guide (top cover)	1
13	1530A-13	oil window	1
14	OR20X2.5	O ring (OR-20x2.5)	1
15	1530A-15	1312 rear plate	1
16	1530A-16	1312 oil pad (rear plate)	1
17	P18.5	rubber cap (top cover)	1
18	42A-12	screw 9/64-40x7	11
19	1312A-19	right needle side plate	1
20	1321A-20	needle plate	1
21	Y35-D7X7	screw 9/64-40x7	3
22	#28S	lower thread guide (upper base)	1
23	1312A-23	stand (needle plate)	1

NO.	P/N	DESCRIPTION	Q'TY
24	1312A-24	stand (hook)	1
25	LT-M6X12	screw M6x1.0x12	3
26	1530A-26	right thread guide (upper base)	1
27	1530A-27	thread take-up cover	1
28	#19	3 holes thread guide	1
29	1530A-29	bed leg	3
30	P24X7	rubber cap	1
31	2530A-31	2312 front plate	1
32	2530A-32	2312 rear plate	1
33	2530A-33	2312 oil pad (rear plate)	1
34	2312A-34	2312 needle plate	1
35	Y3144-D5X6	screw 1/8-44x6	2
36	1312A-36	upper plate (hook cylinder)	1
37	1312A-37	front plate (hook cylinder)	
38	1321A-38	post (front plate)	
39	45C-1-19	screw SM1/8-40	1
40	42A-2	pin	1
41	244E-69	spring	1
42	Y23-D4X3	screw SM3/32x56 (L=3)	
43	1312A-43	oil pan	1
44	1126A-41	oil window (oil pan)	1
45	LT-M8X16		3

B.Upper, Vertical shaft & Thread take-up mechanism/上軸、豎軸、挑線機構

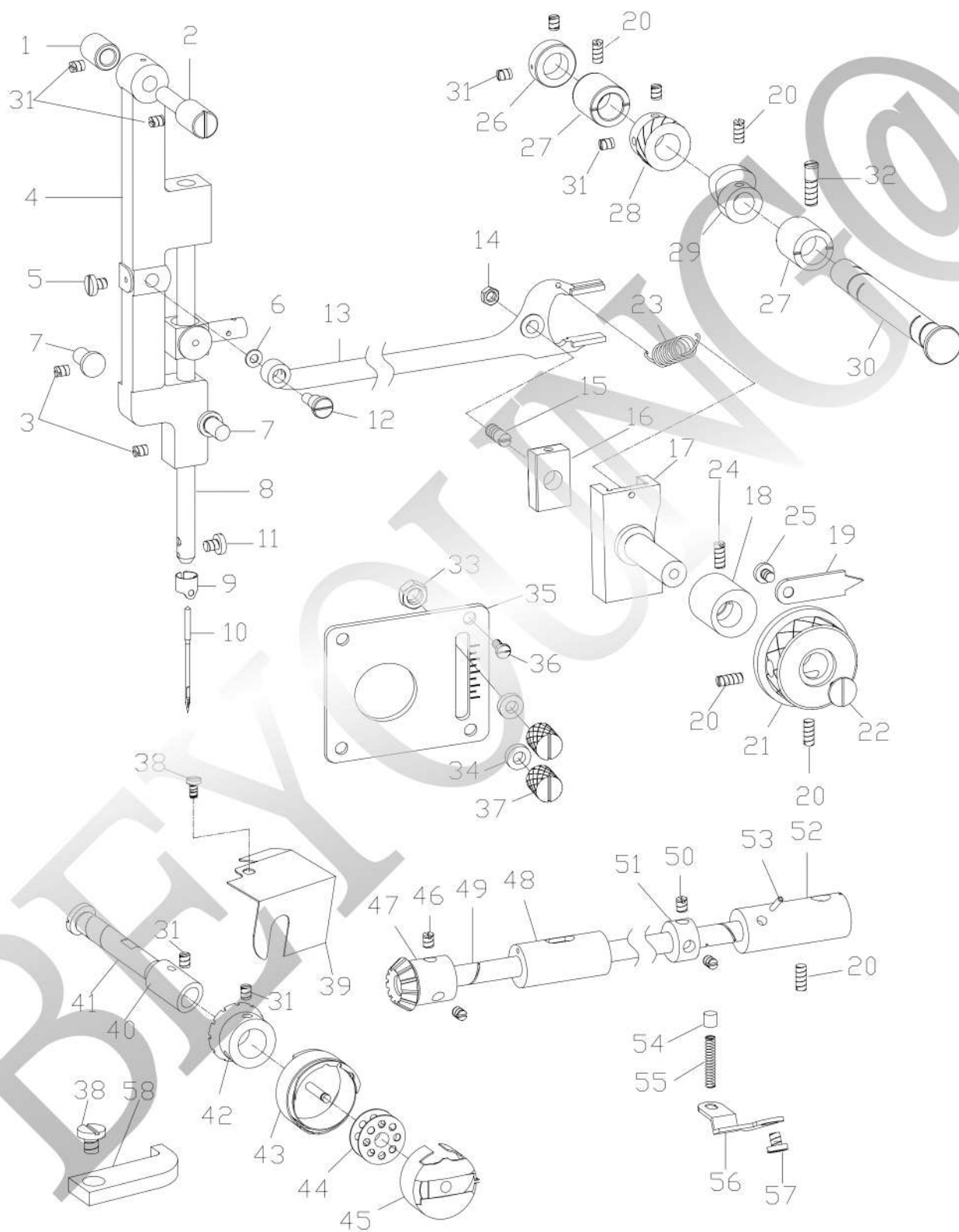


B.Upper, Vertical shaft & Thread take-up mechanism/上軸・豎軸・挑線機構

NO.	P/N	DESCRIPTION	Q'TY
1	1530B-1	screw 11/64-40x3.5	1
2	1530B-2	washer	1
3	1530B-3	needle bar connector 1	1
4	1530B-4	needle bar connector 2	1
5	1530B-5	needle bar connector assembly	(1)
6	Y43-D8X6	screw 11/64-40x6	3
7	1530B-7	anti-thread screw	1
8	1530B-8	rod (needle bar)	1
9	08X12X08	needle bearing	2
10	1530B-10	crank (thread take-up)	1
11	1530B-11	rod (thread take-up)	1
12	1530B-12	shaft (thread take-up)	1
13	1530B-13	bar (thread take-up)	1
14	1530B-14	thread take-up assembly	(1)
15	Y59-D0X15	screw 15/64-28x15	1
16	1530B-16	guiding ingot (rod of needle bar)	1
17	1530B-17	crank (needle bar)	1
18	#105	screw 9/32-28x10	1
19	#103	left bush (upper shaft)	1
20	Y63-D0X6	screw 1/4x40x5	3
21	#102	collar (upper shaft)	1
22	1530B-22	upper shaft	1

NO.	P/N	DESCRIPTION	Q'TY
23	1530B-23	upper gear (rocking needle)	1
24	Y43-SD0X4	screw 11/63x40x4	2
25	Y63-SD0X6	screw 1/4-40x6	10
26	#116	gear (upper shaft)	1
27	S-26	C shape collar	1
28	#129	sliding ingot	1
29	1530B-29	eccentric wheel	1
30	1530B-30	eccentric wheel assembly	(1)
31	Y59-D0X7	screw 15/64-28x7	1
32	#133	right bush (upper shaft)	1
33	1530B-33	pully	1
34	Y59-D0X15	screw 15/64-28x15	2
35	#136	screw 11/32-28x5	1
36	1530B-36	feed fork	1
37	#117	upper gear (vertical shaft)	1
38	Y59-D0X7	screw 15/64-28x5	2
39	#119	upper bush (vertical shaft)	1
40	1530B-40	vertical shaft	1
41	#120A	lower bush (D=17.5)	1
42	#124	lower gear (vertical shaft)	1
43	#125	right gear (vertical shaft)	1
44	1530B-44	rod (feed dog lifter)	1

C.Rocking needle, Lower & Hook shaft mechanism/擺針、下軸、梭軸機構

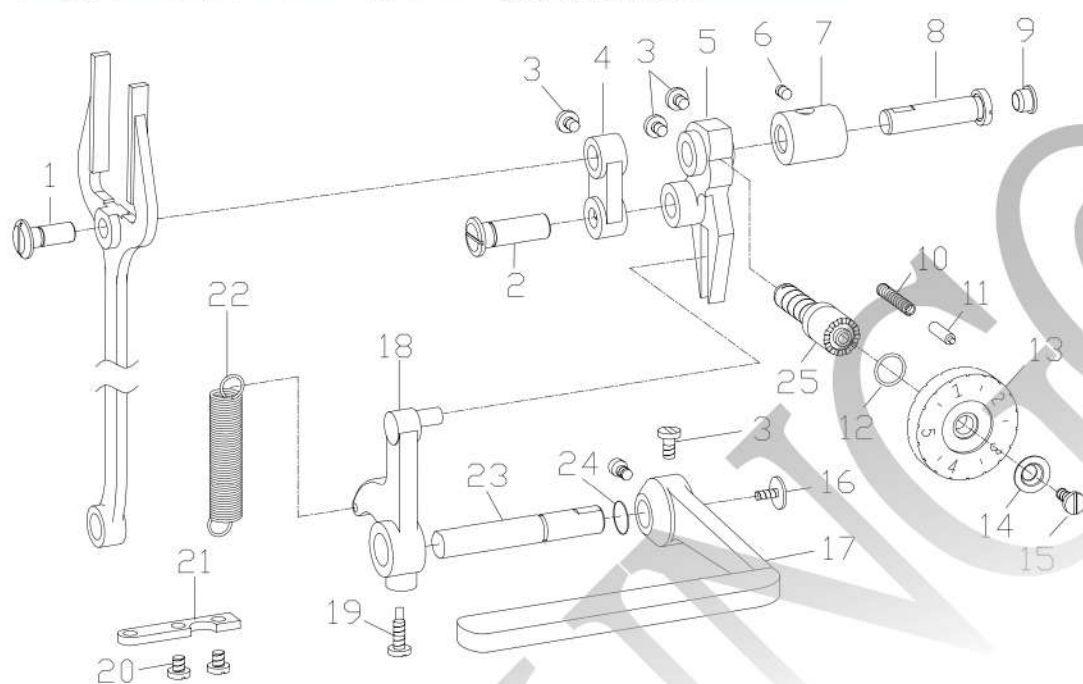


C.Rocking needle, Lower & Hook shaft mechanism/擺針・下軸・梭軸機構

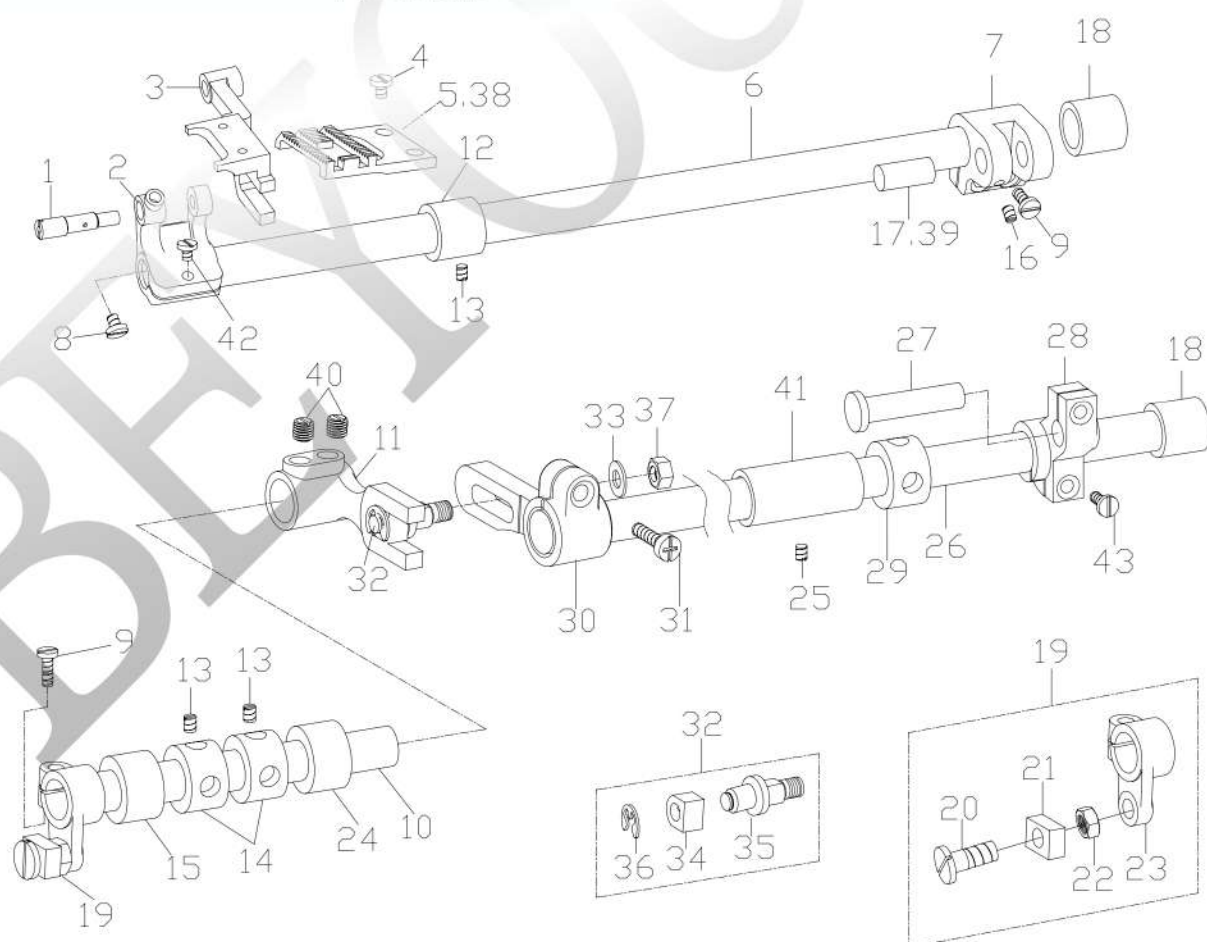
NO.	P/N	DESCRIPTION	Q'TY
1	1530C-1	bush (rocking needle shaft)	1
2	1530C-2	shaft (rocking needle)	1
3	Y43-SD0X6	screw SM11/64-40X6	2
4	1530C-4	rocking needle stand	1
5	Y43-D8X6	screw 11/64-40x6	1
6	W5X10X1	washer W5*10*1	1
7	1530C-7	lower set pin	2
8	1530C-8	needle bar	1
9	1530C-9	guiding thread (needle bar)	1
10	DPX17	needle	1
11	Y3144-D4X4.5	screw 1/8-44x4.5	1
12	1530C-12	eccentric pin	1
13	1530C-13	forked rod	1
14	Y7128-LM11X4	nut 9/32-28x4	1
15	1530C-15	shaft (sliding ingot)	1
16	1530C-16	sliding ingot (forked rod)	1
17	1530C-17	stand (forked rod)	1
18	1530C-18S	bush (stand of forked rod)	1
19	1530C-19	pointer (zig-zag width)	1
20	Y59-D0X7	screw 15/64-28x7	1
21	1530C-21	regular dial	4
22	Y4728-D14X8	screw 3/16-28x8	1
23	1530C-23	spring (forked rod)	1
24	Y59-D0X11	screw 15/64-28x11	1
25	#263	screw 11/64-40x7	1
26	1530C-26	collar (rocking shaft)	1
27	1530C-27	bush (rocking shaft)	2
28	1530C-28	lower gear	1
29	1530C-29	eccentric wheel	1

NO.	P/N	DESCRIPTION	Q'TY
30	1530C-30	shaft (rocking needle)	1
31	Y43-SD0X4	screw 11/64x4 (341C-60)	7
32	1530C-32	screw 15/64-28	4
33	1530C-33	nut 11/64-40x3.5	2
34	W4.5X8	washer W4.5x8	2
35	1530C-35	indicator (zig-zag width)	1
36	Y43-D7X7	screw 11/64-40x7	2
37	1530C-37	knurling screw 11/64-40	2
38	Y35-D7X7	screw 9/61-40x7	2
39	1312C-39	oil box	1
40	1312C-40	bush (hook shaft)	1
41	1312C-41	hook shaft	1
42	1530C-63	gear (hook shaft)	1
43	1312C-43	hook	1
44	1312C-44	bobbin	1
45	1312C-45	bobbin case	1
46	Y63-SD0X6	screw (gear of lower shaft)	2
47	1530C-47	gear (lower shaft)	1
48	#119	left bush (lower shaft)	1
49	1530C-49	lower shaft	1
50	Y59-D0X5	screw 15/64-28x5	2
51	#122	collar (lower shaft)	1
52	1530C-52	right bush (lower shaft)	1
53	1530C-53	oil tube (right bush of lower shaft)	1
54	1530C-54	stopper	1
55	#160	spring	1
56	1530C-56	retainer plate	1
57	Y59-D8X10	screw 15/64-28x10	1
58	1312C-58	locating stand	1

D. Stitch pattern adjustment mechanism/縫目調整機構



E. Lower feed mechanism/下送布機構



D.Stitch pattern adjustment mechanism/縫目調整機構

NO.	P/N	DESCRIPTION	Q'TY
1	1530D-1	shaft (forked rod)	1
2	#152	shaft (stitch length rod)	1
3	Y59-D8X10	screw 15/64-28x10	5
4	1530D-4	rod (stitch length)	1
5	1312D-5	rocking bar (stitch length)	1
6	Y59-D0X11	screw 15/64-28x11	1
7	#158S	bush (rocking bar)	1
8	#159	rocking bar	1
9	P20X4	rubber cap	1
10	#160	set spring	1
11	#162	set pin	1
12	ORIN-14X2.5	O shape ring	1
13	1530D-13	dial (stitch length)	1

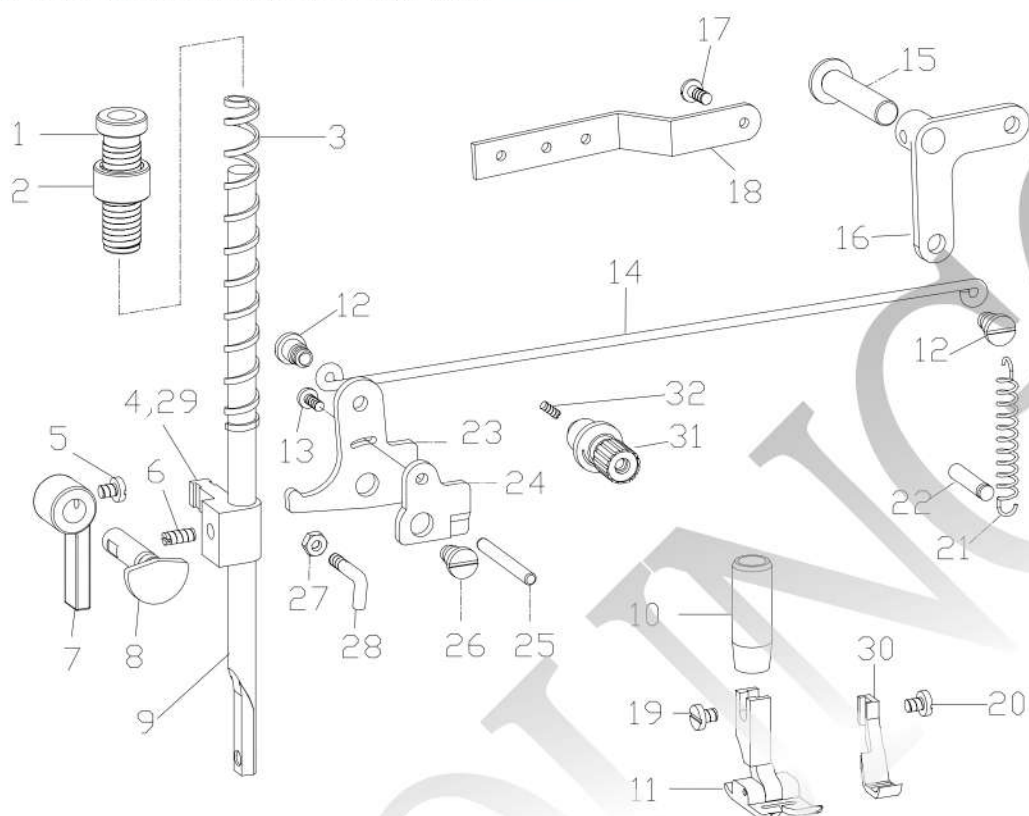
NO.	P/N	DESCRIPTION	Q'TY
14	1530D-14	washer	1
15	Y4728-D8X15	screw 3/16-28x15	5
16	Y4728-D14X8	screw 3/16-28x7	5
17	#167	stitch reverse lever	1
18	#906	crank (stitch reverse)	1
19	#171	screw 15/64-28x10	5
20	Y43-D7X7	screw 11/64-40x7	2
21	#174	plate (spring)	1
22	640D-5	spring	1
23	#169	shaft (stitch reverse)	1
24	OR-10X2	O shape ring	1
25	1530D-9	screw (stitch length adjustment)	1

E.Lower feed mechanism/下送布機構

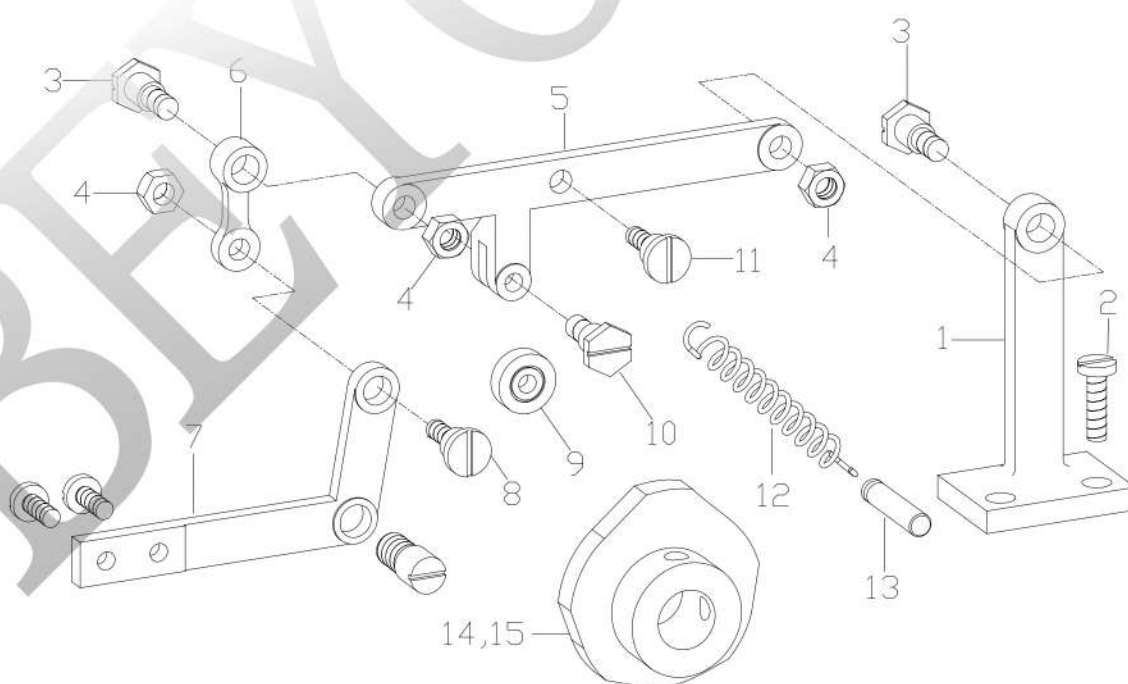
NO.	P/N	DESCRIPTION	Q'TY
1	1530E-1	eccentric shaft (feed bar)	1
2	1312E-2	crank (feed bar)	1
3	1312E-3	feed bar	1
4	Y3144-D5X6	screw 1/8-44x6	2
5	1312E-5	1312 feed dog	1
6	1312E-6	feed shaft	1
7	#222	right crank (feed shaft)	1
8	Y43-D7X7	screw 11/64-40x7	1
9	Y43-D8X13	screw 11/64-40x13	4
10	1312E-10	sub-shaft (feed dog lifter)	1
11	1312E-11	right crank (sub-shaft)	1
12	11530E-12	left bush (feed shaft)	1
13	Y59-D0X5	screw 15/64-28x5	5
14	1312E-14	collar (sub-shaft)	2
15	1312E-15	left bush D=18 (sub-shaft)	1
16	Y43-D0X6	screw SM11/64-40x7	1
17	#226	hinge shaft (crank of feed shaft)	1
18	1530E-18	right bush D=21 (feed shaft)	2
19	1312E-19	left crank assy.	(1)
20	1312E-20	screw (sliding ingot)	1
21	42D-1-3	sliding ingot	1
22	Y63-LM10X4	nut SM1/4-4x40	1

NO.	P/N	DESCRIPTION	Q'TY
23	2126C-52	left crank (sub-shaft)	1
24	1312E-24	right bush D=17.5 (sub-shaft)	1
25	Y59-D0X11	screw 15/64-28x11	1
26	1312E-26	main shaft (feed dog lifter)	1
27	1530E-27	hinge shaft	1
28	1530E-28	right crank (main shaft)	1
29	#211	collar (main shaft)	1
30	640E-57	left crank (main shaft)	1
31	YT-M6X18	screw M6x1.0x18	1
32	2530G-28	adjustment assembly	(1)
33	W6.5X13	washer W6.5	2
34	2530G-30	sliding ingot (adjust assy.)	1
35	2530G-29	shaft (adjustment assy.)	1
36	E-4	C shape clip	1
37	Y6324-LM10X5	nut SM1/4-24x5	1
38	2312E-38	2312 feed dog	1
39	640C-17	hinge shaft (crank of feed shaft)	1
40	Y63-SD0X6	screw SM1/4-40x6	2
41	1530E-18	left bush D=20 (main shaft of feed dog lifter)	1
42	LT-M4X10	screw M4x10	1
43	Y4728-D8X15	screw SM3/16-28x15	2

F.Presser foot mechanism/抬押機構



H.Multi-stitch mechanism/多點擺針機構



F.Presser foot mechanism/抬押機構

NO.	P/N	DESCRIPTION	Q'TY
1	#184	screw (adjust pressure)	1
2	42C-4	nut (adjust pressure)	1
3	#187	spring	1
4	1530F-4	guiding ingot (pressure bar)	1
5	Y43-D7X7	screw 11/64-40x7	1
6	Y59-D0X7	screw 15/64-28x7	5
7	1530F-7	lever (pressure foot lifter)	1
8	1530F-8	eccentric shaft	1
9	1530F-9	bar (pressrue foot)	1
10	#202	lower bush	1
11	1530F-11	1312 pressure foot	1
12	1530F-12	half-thread 3/16-28x8.5 (341F-25)	2
13	Y43-D9X7	screw 11/64-40x6.5	1
14	1530F-14	guiding bar (knee controller of pressure foot)	1
15	1126D-15	shaft (knee controller)	1
16	1126D-16	plate (knee controller)	1

NO.	P/N	DESCRIPTION	Q'TY
17	Y59-D8X10	screw 15/64-28x10	2
18	1126D-18	plate (chain)	1
19	Y35-D7X7	screw 9/64-40x7	1
20	LT-M4X10	screw M4-0.75x10	1
21	1530F-21	spring	1
22	1530F-22	pin	1
23	1530F-23	left ingot (pressure foot knee controller)	1
24	1530F-24	tention release plate	1
25	1530F-25	tention release bar	1
26	1530F-26S	half-thread screw 15/64-28	1
27	Y35-LM6X3	nut 9/64-40x3	1
28	1530F-28	thread guide	1
29	2530F-29	guiding ingot (2312 bar of pressure foot)	1
30	2530F-30	2312 internal pressure foot	1
31	1530A-24	thread tention assy.	1
32	Y59-D0X7	screw 15/64-28x7	3

PS. 1530F-4 & 1530F-11 for TC-1312/1313/1314
2530F-29 & 2530F-30 for TC-2312/2313/2314

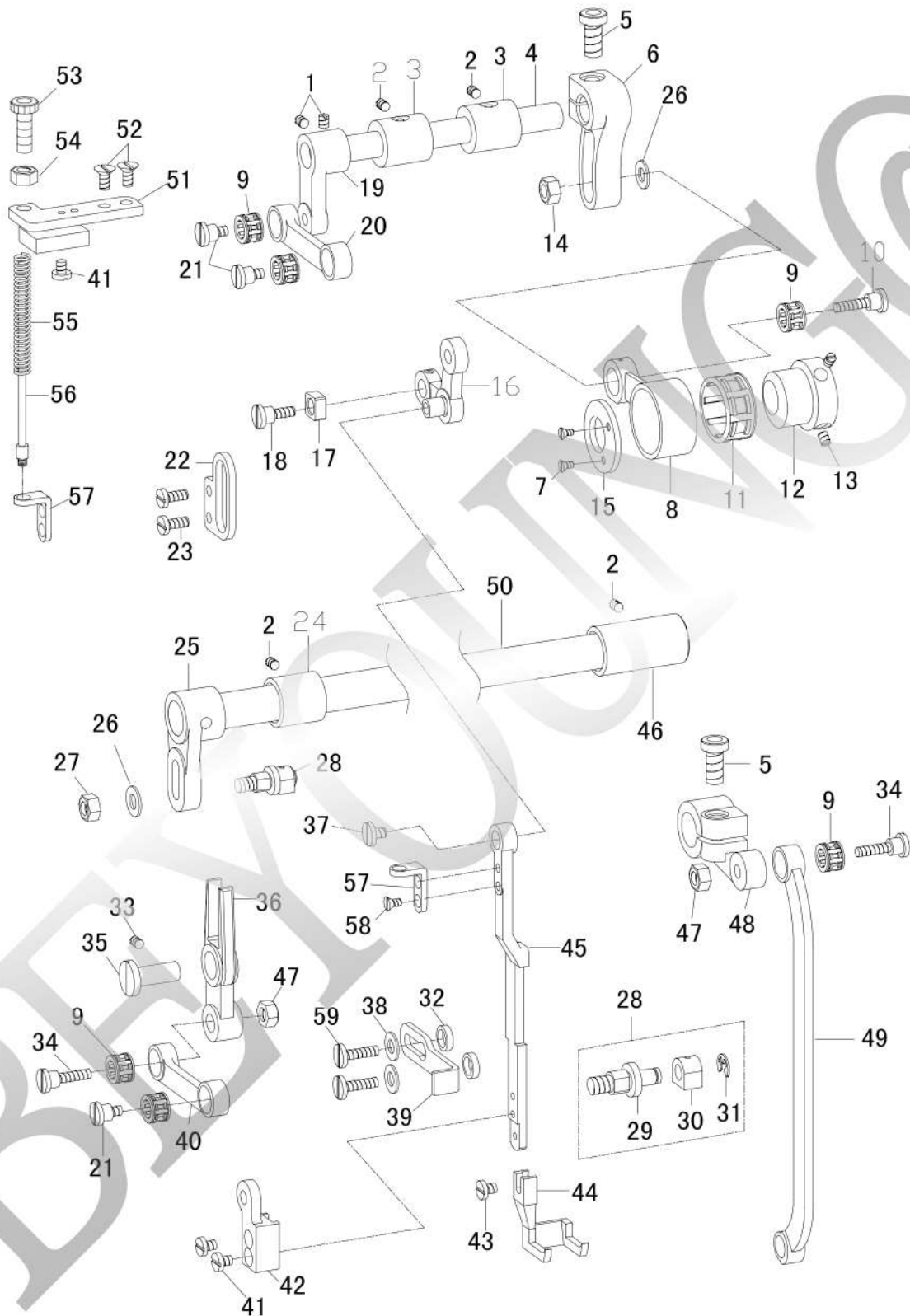
H.Multi-stitch mechanism/多點擺針機構

NO.	P/N	DESCRIPTION	Q'TY
1	1534H-1	stand (wheel bar) (1534C-1)	1
2	LT-M6X12	M6-1.0x12	2
3	1534H-5	half-thread screw SM3/16-32	2
4	Y4732-LM8X4	nut SM3/16-32	3
5	1534H-2	wheel bar (1530C-2)	1
6	1534H-13	connection bar	1
7	1534H-3	rod (rocking needle)	1
8	#267	half-thread screw SM3/16-32	1

NO.	P/N	DESCRIPTION	Q'TY
9	624ZZ	bearing	1
10	91C-9	half-thread screw M4-0.75x6	1
11	#188-1	half-thread screw SM3/16-28	1
12	1530D-21	spring	1
13	1530F-22	pin	1
14	1533H-11	eccentric cam for 3 stitch	1
15	1534H-12	eccentric cam for 4 stitch	1

PS. 1533H-11 for 3 stitch
1534H-12 for 4 stitch

G.Upper feed mechanism/上送布機構

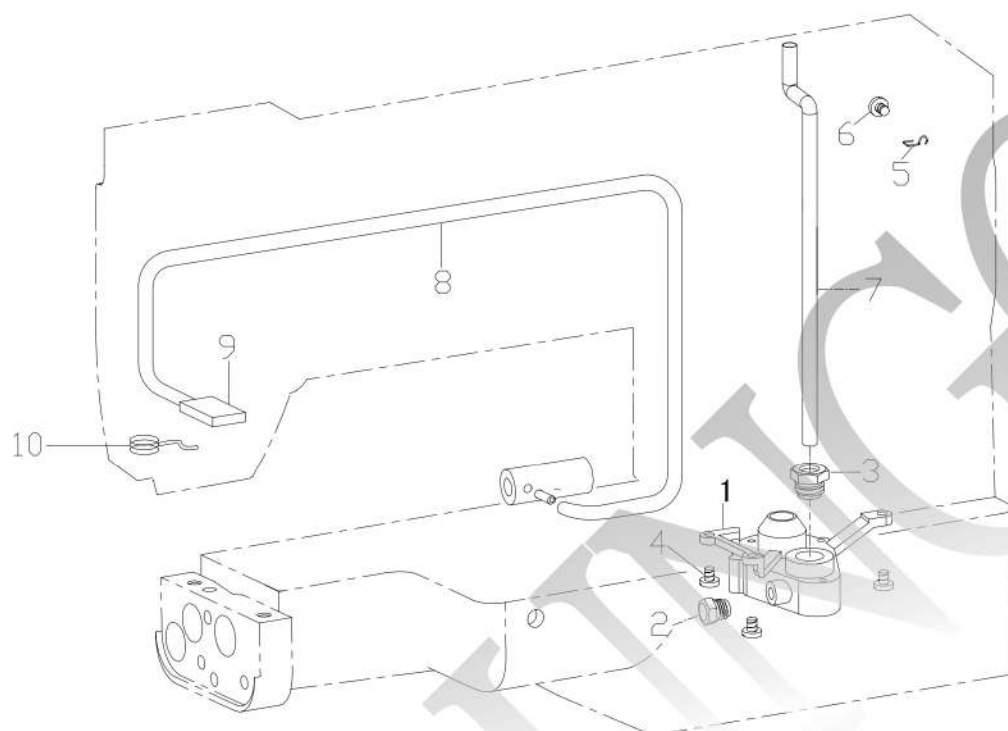


G.Upper feed mechanism/上送布機構

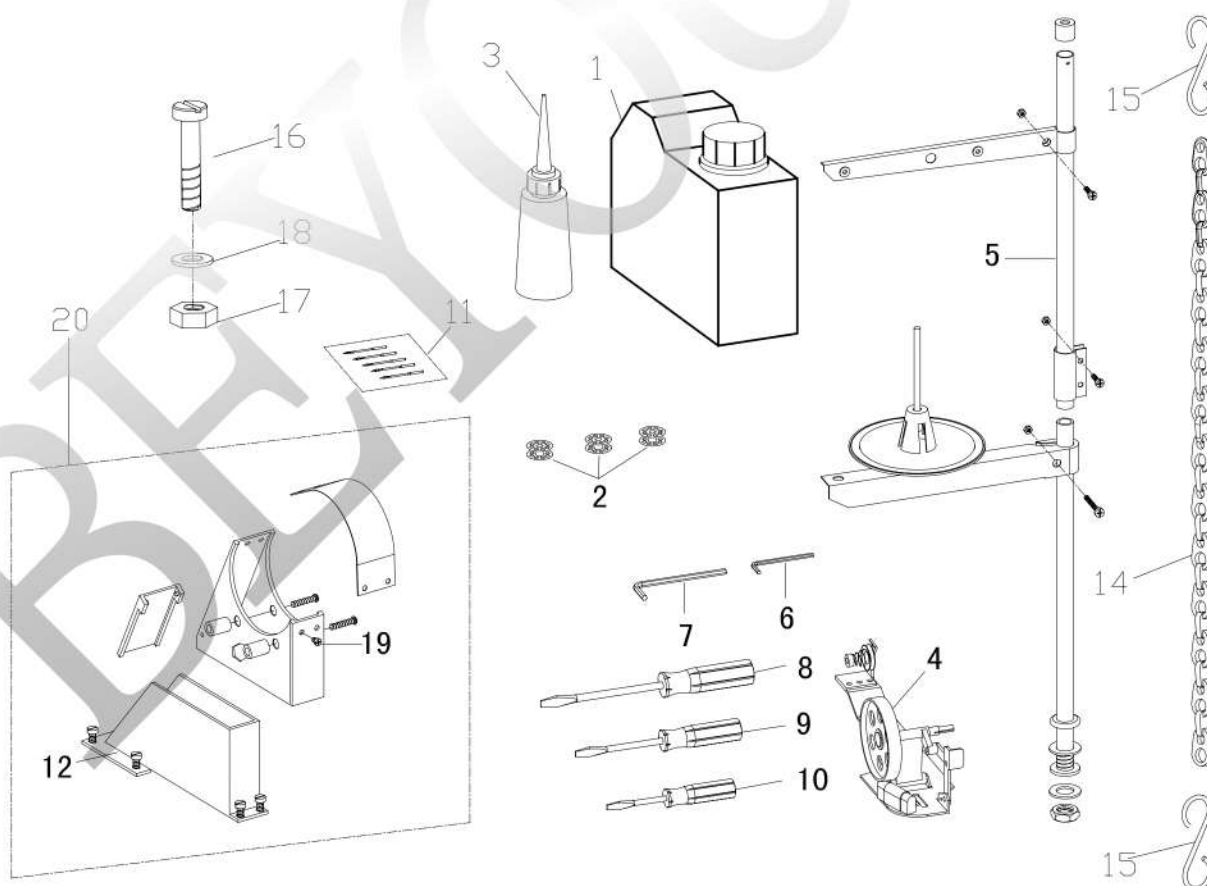
NO.	P/N	DESCRIPTION	Q'TY
1	LM-M5X6	screw M5x6	2
2	Y43-D0X6	screw 11/64-40x6	4
3	2530G-3	bush (shaft of foot lifter)	2
4	2530G-4	shaft (foot lifter)	1
5	LT-M6X20	screw M6x20	2
6	2530G-6	adjustable crank (foot lifter)	1
7	42A-12	screw SM9/64-40x6	2
8	2530G-8	rod (eccentric wheel)	1
9	8X12X8	needle bearing	6
10	2530G-10	screw M6	1
11	24X28X13	needle bearing	1
12	2530G-12	eccentric (foot lifter)	1
13	Y63-D0X6	screw 1/4-40x6	2
14	M6-LM10X4	nut M6	1
15	2530G-15	plate (eccentric wheel)	1
16	2530G-16	rod (external foot)	1
17	2530G-17	sliding ingot	1
18	2530G-18	screw 3/16-28x7	1
19	2530G-19	crank (external foot lifter)	1
20	2530G-20	rod (external foot lifter)	1
21	2530G-21	screw 1/4-40x6	3
22	2530G-22	guiding plate (bar of foot lifter)	1
23	Y43-D9X7	screw 11/64-40x7	2
24	2530G-24	left bush (external shaft)	1
25	640E-57	Left rocking crank	1
26	W6.5X13	W6.5 washer	1
27	Y6324-LM10X5	nut 1/4-24x5	1
28	2530G-28	sync adjustable screw (external foot)	(1)
29	2530G-29	shaft (adjustable screw)	1

NO.	P/N	DESCRIPTION	Q'TY
30	2530G-30	sliding ingot (adjustable screw)	1
31	E-4	C shape clip	1
32	2530G-32	washer	2
33	Y59-D0X7	screw 15/64-28x7	1
34	2530G-34	screw 1/4-40x16	2
35	2530G-35	guiding shaft (variable feed crank)	1
36	640E-63	variable feed crank (external presser foot)	1
37	Y4728-D12X7	screw 3/16-28x7	1
38	W4.5X10	washer	2
39	2530G-39	presser plate (external foot)	1
40	2530G-40	feeding rod (external foot)	1
41	Y35-D6X6	screw 9/64-40x6	2
42	2530G-42	stand (feeding rod)	1
43	Y35-D7X7	screw 9/64-40x8	1
44	2530G-44	external presser foot	1
45	2530G-45	plate (external foot)	1
46	640E-46	right bush (external shaft)	1
47	Y63-LM10X5	nut 1/4-40x5	2
48	2530G-48	right rocking crank	1
49	2530G-49	rod (rocking crank)	1
50	640E-43	external shaft	1
51	2530G-51	stand (external presser foot)	1
52	#263	screw 11/64-40x7	2
53	2530G-53	adjustable screw (external presser foot)	1
54	Y7128-LM11X4	nut 9/32-28	1
55	2530G-55	spring (external presser foot)	1
56	2530G-56	sub-shaft (external presser foot)	1
57	2530G-62	spring stand	1
58	Y35-D7X7	screw 9/64-40x7	2
59	Y43-D7X12	screw SM11/64-40X12	2

J. Lubrication mechanism/供油機構



K. Accessory/配件



J.Lubrication mechanism/供油機構

NO.	P/N	DESCRIPTION	Q'TY
1	1530J-1	oil pump assy.	1
2	1530J-2	screw 11/32-28x5	1
3	1530J-3	screw 11/32-28x5	3
4	Y43-D8X13	screw 11/64-40x13	1
5	1530J-5	spring (oil spring)	1

NO.	P/N	DESCRIPTION	Q'TY
6	Y43-D7X7	screw 11/64-40x7	1
7	1530J-7	aluminum oil tube	1
8	1530J-8	plastic oil tube	1
9		oil cotton	1
10	1530J-100	cotton spring	1

K.Accessory/附件

NO.	P/N	DESCRIPTION	Q'TY
1	1530K-1	oil tank	1
2	1530K-2	bobbin	3
3	1530K-3	oiler assy.	1
4	1530K-4	thread winder	1
5	1530K-5	thread stand assy.	1
6	1530K-6	hexagonal wrench (2mm)	1
7	1530K-7	hexagonal wrench (5mm)	1
8	1530K-8	screw driver-large	1
9	1530K-9	screw driver-medium	1
10	1530K-10	screw driver-small	1

NO.	P/N	DESCRIPTION	Q'TY
11	1530K	DPX5 needle	4
12	1531K	taping screw	4
13	1532K	nut	1
14		chain	1
15		S shape hook	2
16	M6X1.0	screw	4
17	M6X1.0	nut	4
18	W6X12	washer	4
19	1530K-11	screw (belt cover assy.)	7
20	1530K-12	belt cover assembly	1