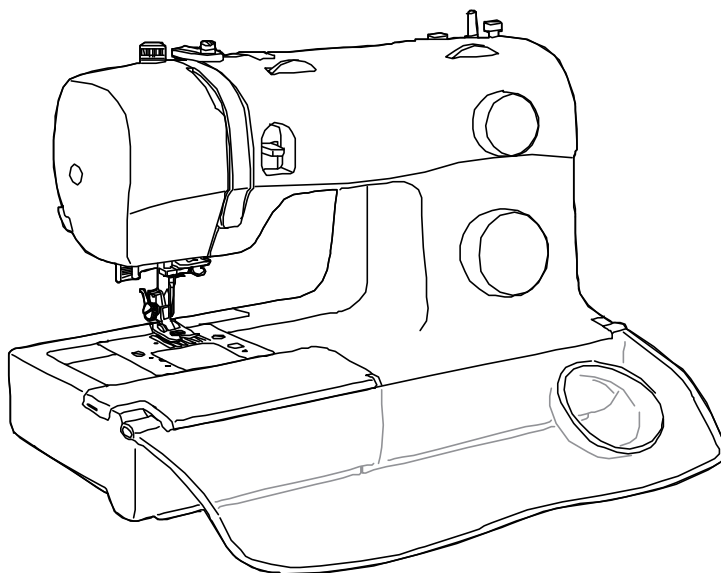
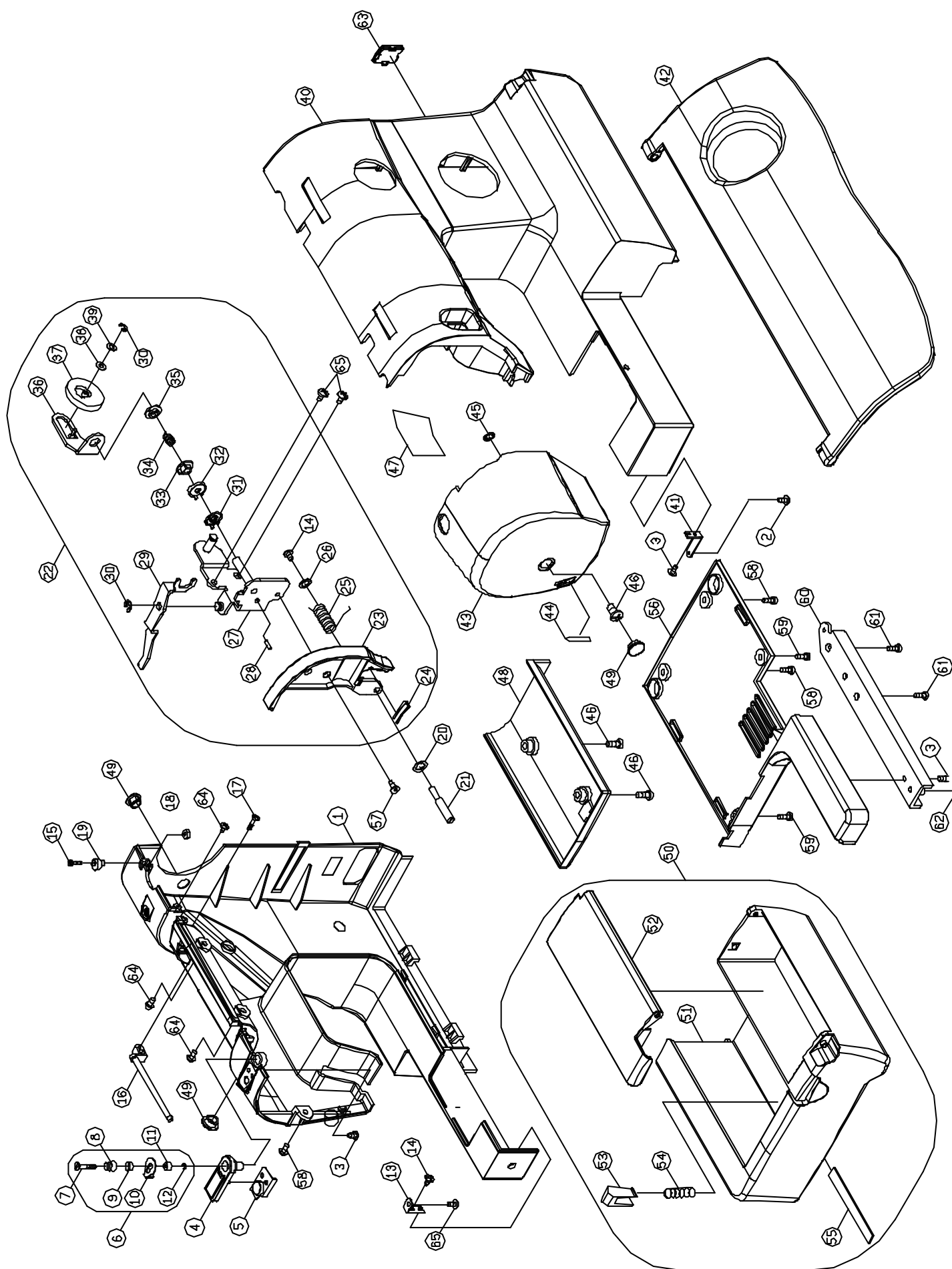


Ersatzteile-Liste
List of spare parts
Liste des pièces détachées
Catalogo pezzi staccati
Lista de piezas de repuesto

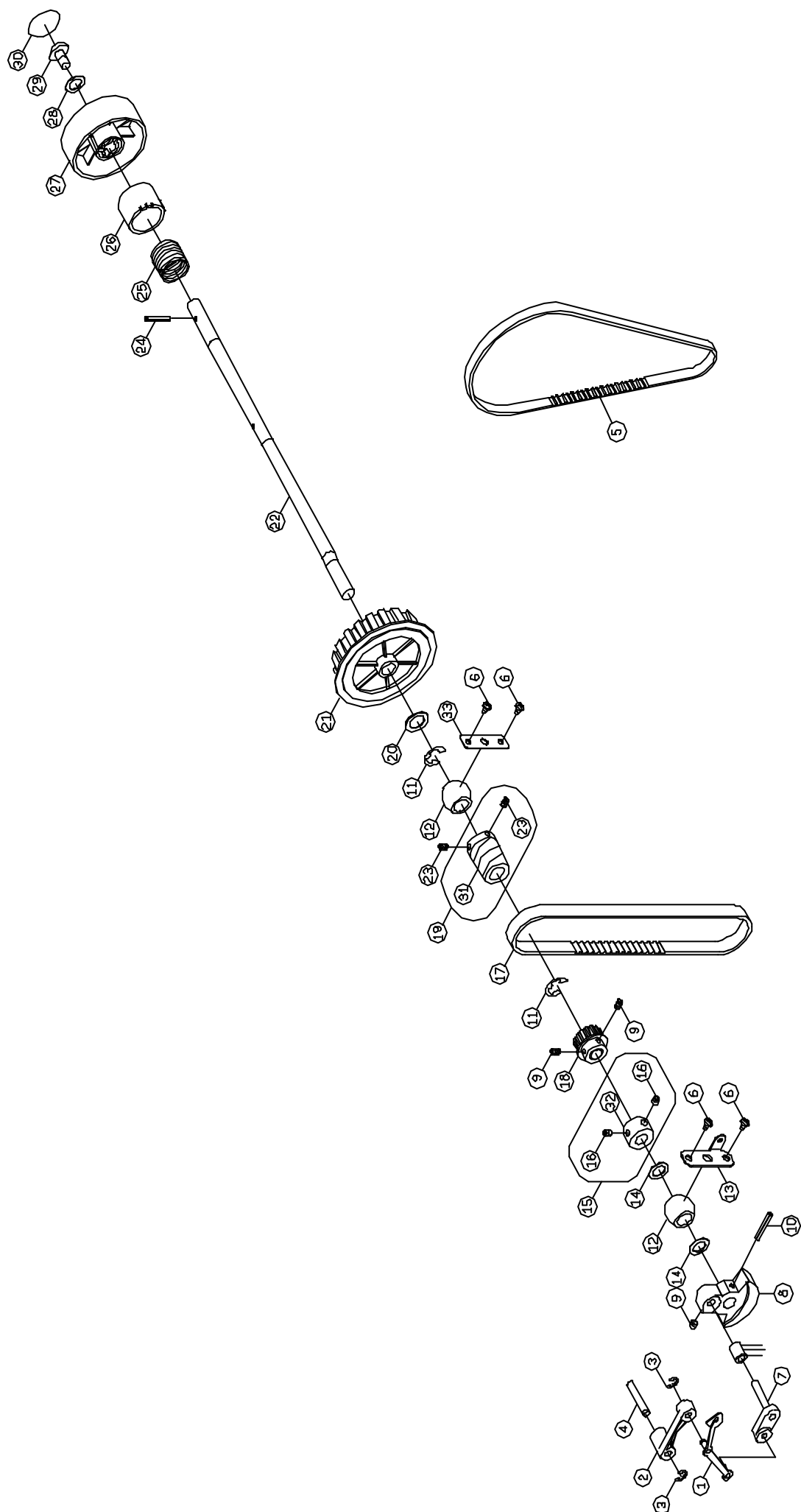


A



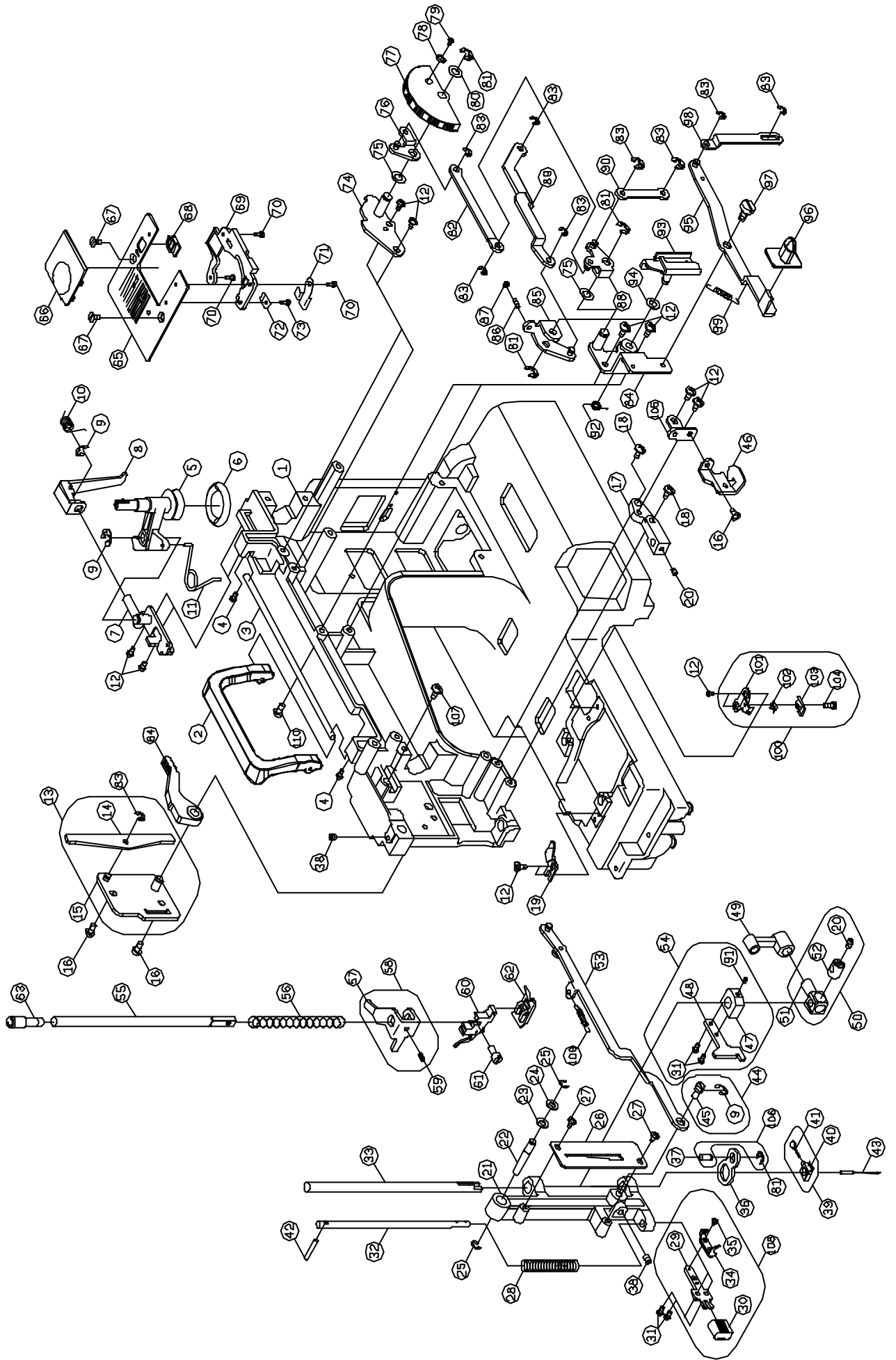
No.	Part No.	Description	
1	416 20 09-01	Back cover	58 416 12 15-01 Set screw (M4×8 A)
2	416 11 92-01	Set screw (M3×6 A)	59 416 18 52-01 Set screw (M4×10)
3	416 18 48-01	Set screw (M3×8)	60 416 19 82-01 Free arm foot
4	416 19 92-01	Bobbin winder thread guide disc	61 416 18 57-01 Set screw (M6×10 B)
5	416 19 90-01	Thread guide complete	62 416 15 29-01 Free arm base cushion rubber
6	416 19 93-01	Bobbin winder thread guide complete	63 416 19 88-01 BH cover
7	416 19 94-01	Bobbin winder thread guide adjusting	64 416 12 16-01 Set screw (M4×12 B)
8	416 19 97-01	Bobbin winder thread guide spring	65 416 12 12-01 Set screw (M4×6 B)
9	416 19 91-01	Bobbin winder spring disc	
10	416 19 95-01	Bobbin winder thread guide	
11	416 19 96-01	Spacer	
12	416 11 60-01	E-Ring (ETW-3)	
13	416 14 45-01	Arm back cover set plate	
14	416 11 96-01	Set screw (M3×8.5)	
15	416 17 40-01	Set screw (9/64×40×16)	
16	416 19 89-01	Spool rod	
17	416 12 04-01	Set screw (M3×1.06B)	
18	416 12 63-01	Nut (9/64×40 t=3)	
19	416 14 66-01	Bobbin winder stopper	
20	416 18 64-01	Washer (4.1×8×1)	
21	416 12 30-01	Set screw (M4)	
22	416 20 08-01	Dial tension complete	
23	416 20 07-01	Dial tension supporter plate cover	
24	416 19 87-01	Thread guide	
25	416 19 86-01	Thread take spring	
26	416 18 67-01	Washer (3.2×10.5×0.5)	
27	416 19 83-01	Dial tension supporter plate complete	
28	416 11 75-01	Spring pin (ø3×10×0.6)	
29	416 19 85-01	Dial tension waft plate	
30	416 11 61-01	E-Ring (ETW-4)	
31	416 14 63-01	Dial tension disc	
32	416 15 36-01	Dial tension disc (1)	
33	416 15 67-01	Dial tension spring regulator	
34	416 15 59-01	Dial tension spring	
35	416 15 38-01	Dial tension regulator	
36	416 19 84-01	Dial tension spring plate	
37	416 20 12-01	Dial tension knob	
38	416 18 62-01	Washer (5.2×10×0.2)	
39	416 12 60-01	Washer (WW-5)	
40	416 20 11-01	Front cover	
41	416 14 44-01	Arm front cover set plate	
42	416 20 04-01	Front table	
43	416 20 14-01	Face plate	
44	416 17 25-01	Thread cutter	
45	416 11 67-01	CS-ring (CSTW-5)	
46	416 12 31-01	Set screw (M4×0.7 L12)	
47	416 19 98-01	Heat resistant plate	
48	416 19 99-01	Free arm base	
49	416 14 91-01	Plug	
50	416 20 01-01	Sewing table complete	
51	416 20 02-01	Sewing table body	
52	416 20 03-01	Sewing table body cover	
53	416 15 06-01	Sewing table body guide spring	
54	416 15 07-01	Sewing table body guide spring	
55	416 14 49-01	Sewing table body felt	
56	416 20 00-01	Free arm foot bush	
57	416 18 45-01	Set screw (M3×6 D)	

B



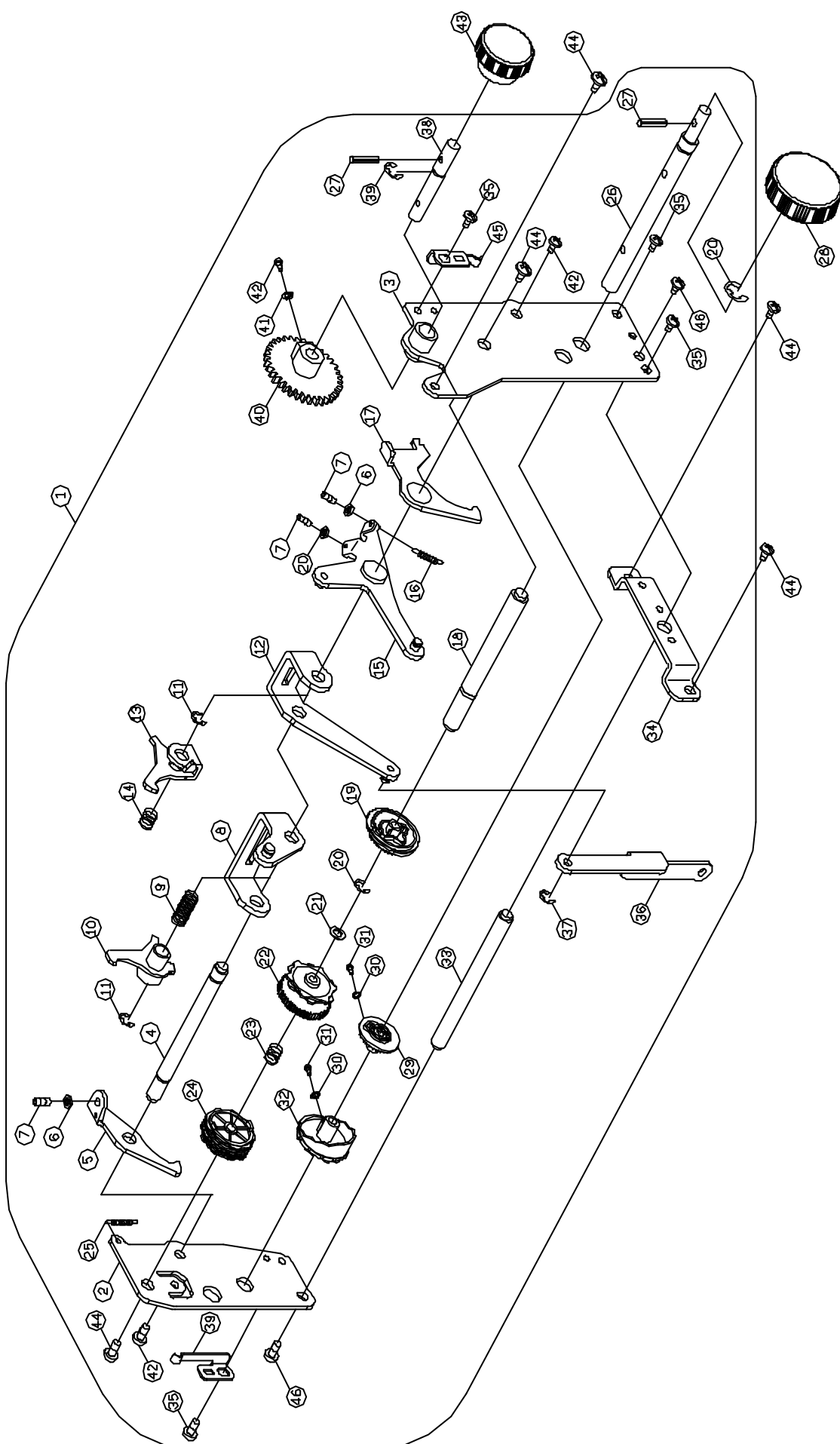
No.	Part No.	Description
1	416 18 78-01	Thread take up lever
2	416 15 79-01	Thread take up lever supporter
3	416 11 61-01	E-Ring (ETW-4)
4	416 16 22-01	Thread take up lever supporter shaft
5	416 12 92-01	Motor drive belt (B156XXL6.1)
6	416 12 15-01	Set screw (M4×8A)
7	416 15 80-01	Arm shaft balance pin complete
8	416 20 18-01	Arm shaft balance
9	416 12 21-01	Set screw (M4×6)
10	416 11 77-01	Arm shaft balance pin (ø3.5×24)
11	416 11 65-01	E-Ring (ETW-9)
12	416 15 63-01	Arm shaft bushing
13	416 18 84-01	Arm shaft bushing holder plate
14	416 12 51-01	Endure attrition washer
15	416 15 64-01	Arm shaft collar complete
16	416 12 36-01	Set screw (M5×5)
17	416 18 72-01	Motor drive belt (160XL031)
18	416 15 00-01	Arm shaft sprocket
19	416 18 82-01	Arm shaft worm complete
20	416 12 47-01	Washer (10.2×15×0.5)
21	416 14 85-01	Arm shaft drive belt pulley
22	416 18 81-01	Arm shaft
23	416 12 24-01	Set screw (M4×4 C)
24	416 11 76-01	Spring pin (ø3×18)
25	416 15 66-01	Arm shaft clutch annulus spring
26	416 15 67-01	Arm shaft collar
27	416 19 10-01	Hand wheel
28	416 12 44-01	Hand wheel washer (5.2×16×1.0)
29	416 18 28-01	Set screw (M5×10)
30	416 15 91-01	Hand wheel decorated plate
31	416 18 83-01	Arm shaft worm
32	416 15 65-01	Arm shaft collar
33	416 16 17-01	Arm shaft bushing holder plate

C

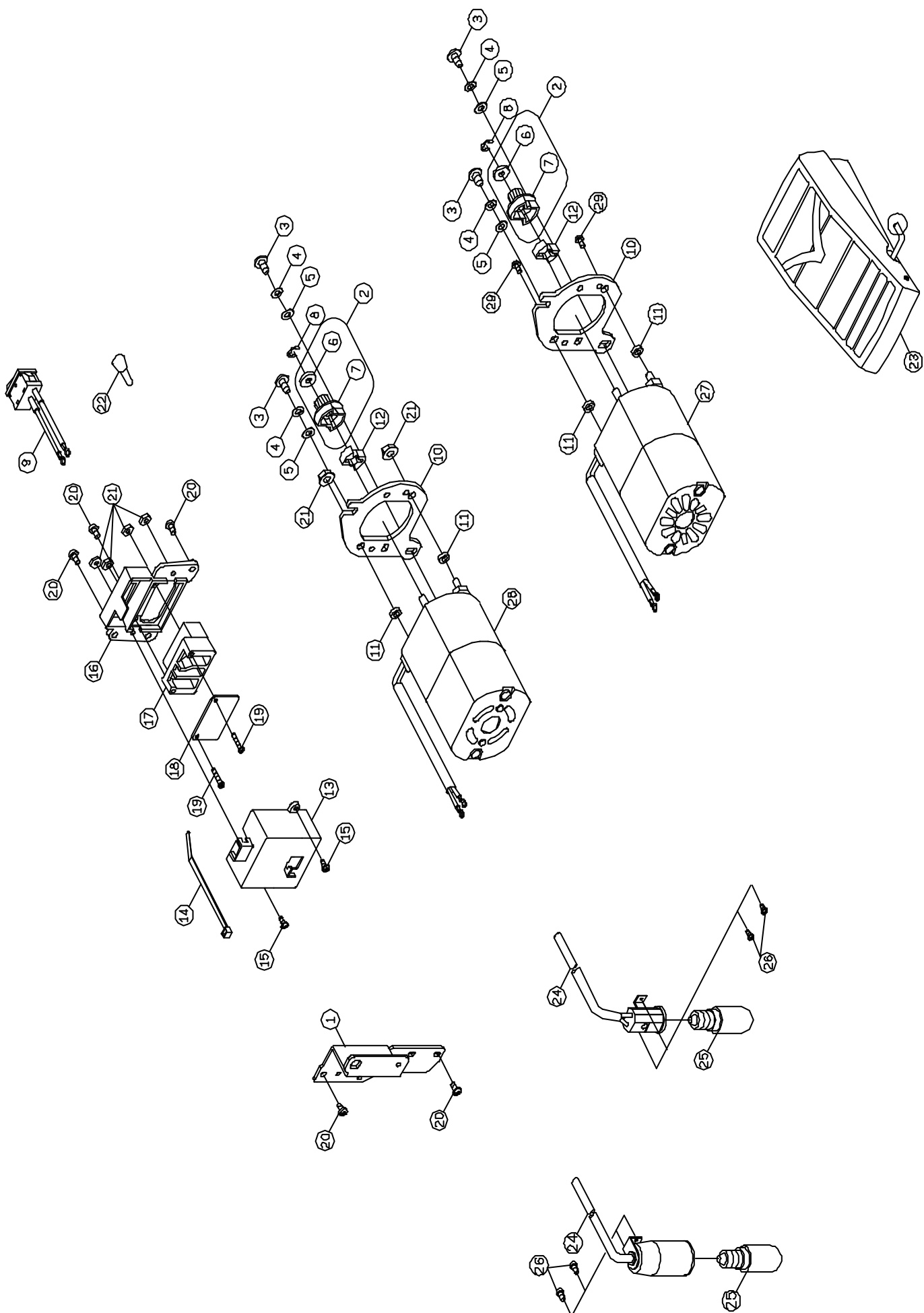


No.	Part No.	Description	
2	416 19 81-01	Handle	58 416 18 89-01 Presser bar bracket complete
3	416 19 80-01	Handle rod	59 416 12 21-01 Set screw (M4×6)
4	416 18 50-01	Set screw (M3.5×0.6)L8	60 416 12 90-01 Shank complete
5	416 16 97-01	Bobbin winder crank complete	61 416 18 42-01 Set screw (9/64×40×7.5)
6	416 14 92-01	Bobbin winder rubber pulley	62 416 18 71-01 Zig zag presser foot complete
7	416 19 74-01	Bobbin winder frame plate	63 416 20 10-01 Presser bar regulating screw complete
8	416 19 75-01	Clutch rod	64 416 18 88-01 Presser bar lifter lever
9	416 11 63-01	E-Ring (ETW-5)	65 416 19 09-01 Needle plate
10	416 19 76-01	Clutch rod spring	66 416 15 61-01 Needle plate cover
11	416 17 12-01	Bobbin winder crank spring	67 416 12 29-01 Set screw (M4×6)
12	416 12 12-01	Set screw (M4×6 B)	68 416 15 52-01 Needle plate cover open
13	416 18 85-01	Clamp setter complete	69 416 14 74-01 Needle plate cover
14	416 18 87-01	Untension link plate	70 416 18 29-01 Set screw (SM3/32×56 L3)
15	416 18 86-01	Clamp plate	71 416 14 75-01 Needle plate spring
16	416 12 15-01	Set screw (M4×8 A)	72 416 18 76-01 Needle plate cover plate
17	416 19 05-01	Needle bar supporter plate	73 416 18 41-01 Set screw(SM3/32×56 L=5)
18	416 12 11-01	Set screw (M4×10 B)	74 416 19 68-01 Zig zag width dial plate
19	416 14 40-01	Rotary hook plate	75 416 18 68-01 Washer (6.5×10.5×1.5)
20	416 12 24-01	Set screw (M4×4)	76 416 19 69-01 Zig zag width dial crank
21	416 18 92-01	Needle bar supporter	77 416 20 16-01 Zig zag width dial
22	416 18 93-01	Needle bar supporter pin	78 416 18 59-01 Washer (4.2×9×0.5)
23	416 18 69-01	Washer (WW-6)	79 416 12 16-01 Set screw (M4×12 B)
24	416 18 58-01	Washer (6.5×13×1)	80 416 18 60-01 Washer (6.2×12×0.6)
25	416 11 62-01	E-Ring (ETW-4)	81 416 11 61-01 E-Ring (ETW-4)
26	416 18 98-01	Threading guide	82 416 19 70-01 Zig zag width dial crank rod
27	416 11 92-01	Set screw (M3×6 A)	83 416 11 60-01 E-Ring (ETW-3)
28	416 19 00-01	Threading shaft spring	84 416 19 60-01 Zig zag width plate
29	416 19 02-01	Threading plate	85 416 19 62-01 Zig zag width crank
30	416 19 03-01	Threading button	86 416 12 27-01 Set screw (M4×0.7 L12)
31	416 18 44-01	Set screw (M2×4)	87 416 12 68-01 Nut (ALN-4)
32	416 18 99-01	Threading shaft	88 416 19 64-01 Zig zag width crank
33	416 18 94-01	Needle bar	89 416 19 67-01 Rod
34	416 19 04-01	Threading shaft complete	90 416 19 65-01 Zig zag width crank rod
35	416 18 43-01	Set screw (M1.6×3)	91 416 18 46-01 Set screw (M3×4 C)
36	416 19 06-01	Needle bar supporter	92 416 19 63-01 Zig zag width spring
37	416 14 13-01	Needle bar supporter plate pin	93 416 19 61-01 Zig zag width
38	416 12 10-01	Set screw (M4×5)	94 416 18 62-01 Washer (5.2×10×0.2)
39	416 15 03-01	Needle clamp complete	95 416 19 77-01 Reverse lever
40	416 15 77-01	Needle clamp	96 416 19 79-01 Reverse button
41	416 15 02-01	Needle clamp set screw	97 416 18 56-01 Set screw
42	416 18 40-01	Pin (o2×14)	98 416 19 78-01 Reverse rod
43	416 08 88-01	Needle 10x80	99 416 15 50-01 Spring
44	416 14 68-01	Needle bar driving rod pin complete	100 416 14 39-01 Rotary hook plate complete
45	416 14 67-01	Needle bar driving rod pin	101 416 14 41-01 Rotary hook plate (2)
46	416 19 07-01	Thread guide plate	102 416 14 99-01 Rotary hook plate spring (2)
47	416 18 96-01	Threading stopper	103 416 14 98-01 Rotary hook plate spring (1)
48	416 18 97-01	Threading stop holder	104 416 11 90-01 Set screw (M2×2.5)
49	416 20 17-01	Needle bar crank rod	105 416 19 08-01 Tension plate
50	416 15 08-01	Needle bar bracket complete	106 416 18 72-01 Needle bar supporter plate pin complete
51	416 15 11-01	Needle bar bracket (1)	107 416 18 54-01 Set screw (M4×10 A)
52	416 15 12-01	Needle bar bracket (2)	108 416 19 01-01 Threading plate complete
53	416 19 66-01	Needle bar driving rod	109 416 19 59-01 Needle bar driving rod spring
54	416 18 95-01	Threading stopper complete	110 416 12 17-01 Set screw (M4×15 B)
55	416 18 91-01	Presser bar	
56	416 18 77-01	Presser bar spring	
57	416 18 90-01	Presser bar bracket	

D

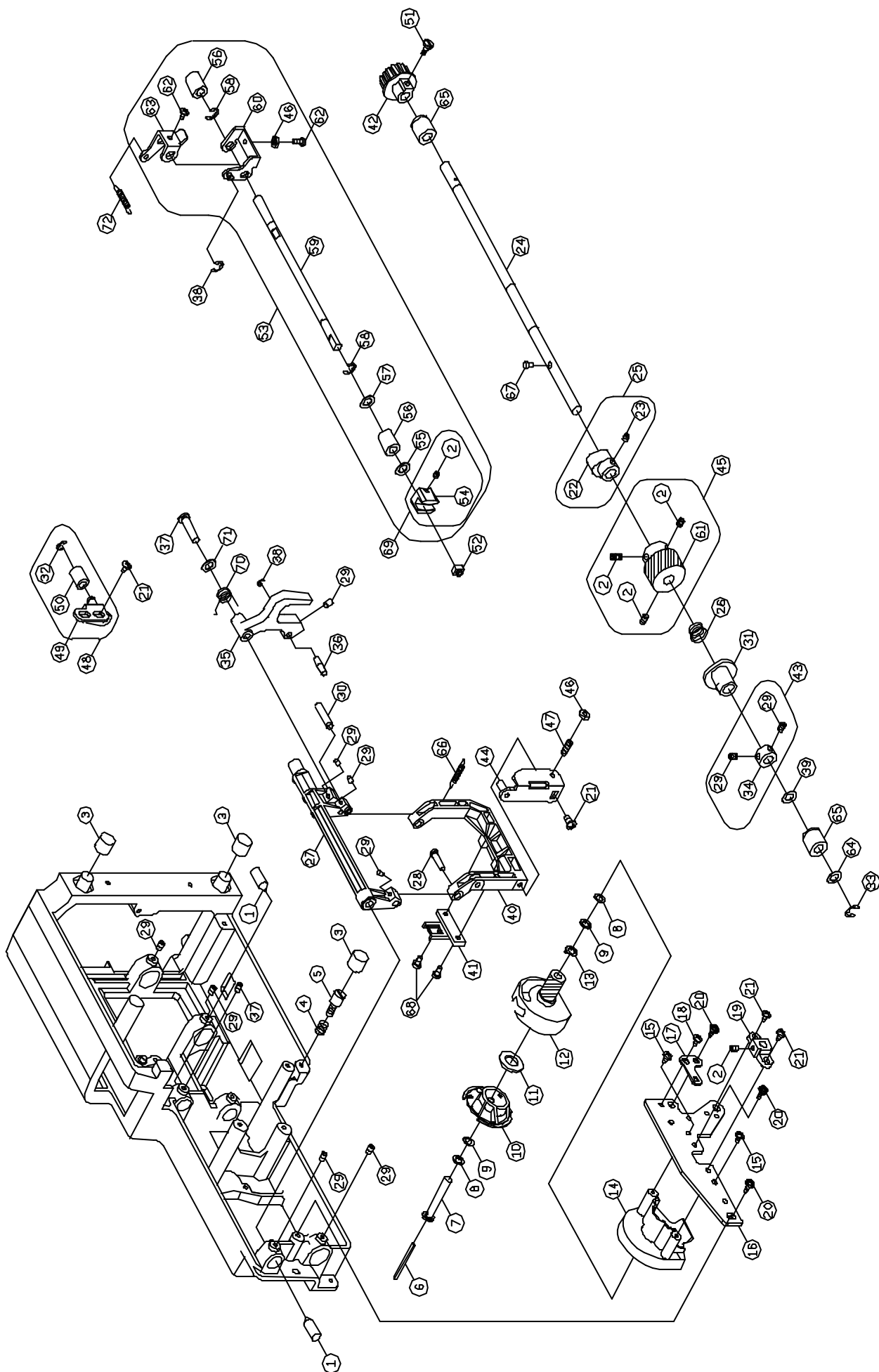


No.	Part No.	Description
1	416 19 33-01	Pattern cam contact complete
2	416 19 36-01	Pattern cam contact plate (back)
3	416 19 34-01	Pattern cam contact plate (front)
4	416 19 42-01	Contact supporter shaft
5	416 19 45-01	Zig zag release plate
6	416 12 68-01	Nut (ALN-4)
7	416 18 55-01	Set screw (M4×0.7)L9
8	416 19 43-01	Zig zag cam contact supporter
9	416 15 81-01	Zig zag cam contact spring
10	416 19 44-01	Zig zag cam contact
11	416 18 38-01	E-Ring (ETW-5)
12	416 19 46-01	SS cam contact supporter
13	416 19 47-01	SS cam contact
14	416 16 64-01	SS cam contact spring
15	416 19 48-01	Feed dial crank
16	416 18 73-01	BH Feed crank spring
17	416 19 49-01	BH Feed crank
18	416 19 37-01	Pattern cam shaft
19	416 19 38-01	Feed regulator cam
20	416 11 64-01	E-Ring (ETW-6)
21	416 18 65-01	Washer (8.2×12×0.5)
22	416 19 39-01	SS cam
23	416 19 41-01	Pattern cam spring
24	416 19 40-01	Pattern cam
25	416 18 79-01	Spring
26	416 19 51-01	Pattern selector cam shaft
27	416 18 39-01	Spring pin (o2.5×16)
28	416 20 13-01	Pattern selector dial
29	416 19 54-01	BH Pattern selector cam
30	416 18 59-01	Washer (4.2×9×0.5)
31	416 18 52-01	Set screw (M4×10)
32	416 19 52-01	Pattern selector cam
33	416 19 50-01	Pattern cam contact supporter shaft
34	416 19 35-01	Pattern cam contact supporter plate
35	416 12 12-01	Set screw (M4×6 B)
36	416 19 58-01	Feed rock shaft
37	416 11 60-01	E-Ring (ETW-3)
38	416 19 56-01	Feed regulator dial shaft
39	416 19 53-01	Pattern fix spring plate
40	416 19 55-01	Feed regulator gear
41	416 18 61-01	Washer (3.2×8×0.8)
42	416 11 97-01	Set screw (M3×8 B)
43	416 20 15-01	Feed regulator dial
44	416 12 15-01	Set screw (M4×8 A)
45	416 25 83-01	Feed regulator fix plate
46	416 11 92-01	Set screw (M3×6 A)



No.	Part No.	Description	
1	416 19 73-01	Lamp receptacle plate	
2	416 11 45-01	Belt wheel complete	
3	416 17 50-01	Set screw (M5×12)	
4	416 12 62-01	Spring washer (5.1×9.2×1.3)	
5	416 12 43-01	Washer (5.4×10×0.9)	
6	416 11 40-01	Motor feed regulator collar	
7	416 11 46-01	Belt wheel	
8	416 11 60-01	E-Ring (ETW-3)	
9	416 11 50-01	Switch ass'y	
10	416 18 34-01	Motor bracket	
11	416 18 66-01	Washer (4.2×8×2.5)	
12	416 12 94-01	Cushion rubber	
13	416 18 75-01	Receptacle holder cover	
14	416 11 39-01	Cord clip	
15	416 11 97-01	Set screw (M3×8 B)	
16	416 22 43-01	Receptacle holder	
17	416 18 47-01	Receptacle	
18	416 18 36-01	Consent insulation plate	
19	416 18 49-01	Set screw (M3×20 B)	
20	416 12 15-01	Set screw (M4×8 A)	
21	416 12 64-01	Nut (M3 t=2.3)	
22	416 13 30-01	End terminal	
23	416 18 31-01	Foot controller (KD-2902) 220~240V	Europe
23	416 18 33-01	Foot controller (KD-1902) 100~120V	Japan/ USA/ Canada
23	416 18 37-01	Foot controller (KD-2902) 240V	Australia
24	416 18 35-01	Lamp Holder complete	
25	416 12 70-01	Lamp (240V 15W E-14)	
26	416 11 94-01	Set screw (M3×5B)	
27	416 18 30-01	Motor complete (NS-60) 230V	
28	416 18 32-01	Motor complete (HF-07150) 110V	
29	416 18 51-01	Set screw (M4×11.7)	

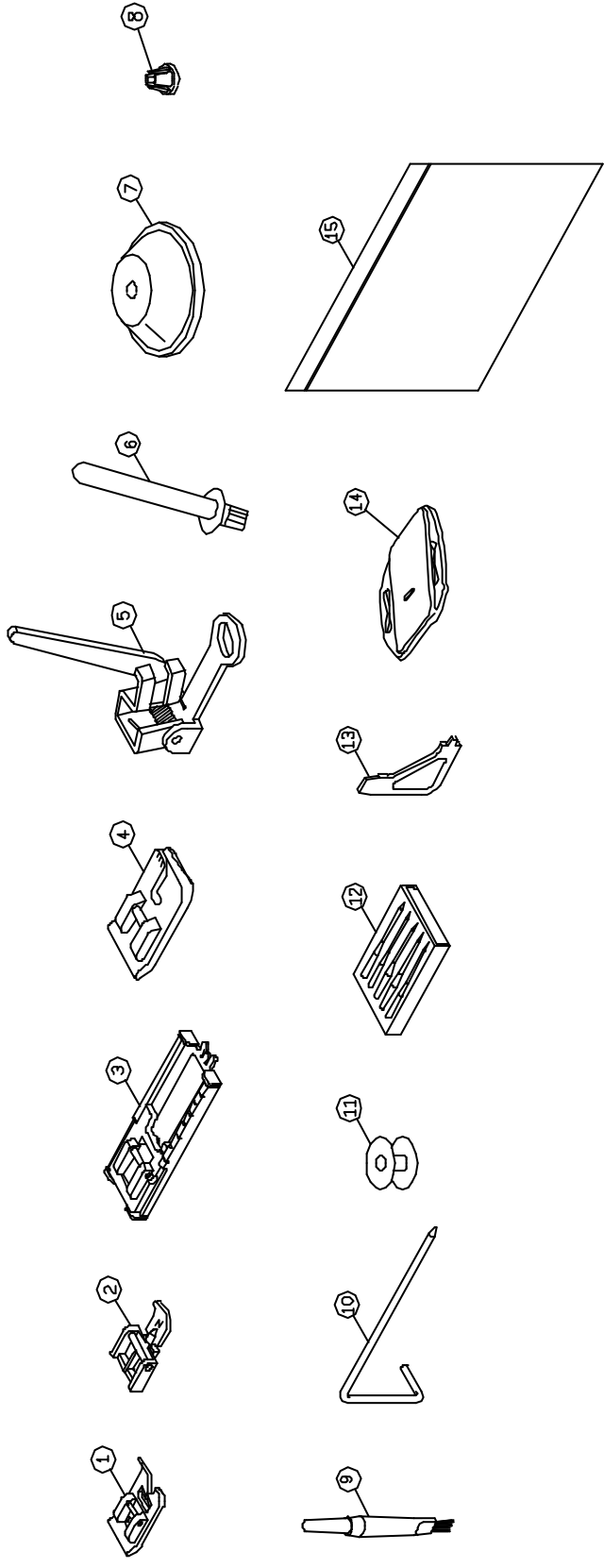
F



No.	Part No.	Description	
1	416 19 28-01	Feed crank shaft	58 416 11 66-01 E-Ring (ETW-5)
2	416 12 10-01	Set screw (M4×5)	59 416 19 30-01 Feed regulating shaft
3	416 15 29-01	Free arm base cushion rubber	60 416 19 32-01 Feed regulating crank
4	416 14 73-01	Base plate adjustment screw spring	61 416 19 72-01 Lower shaft gear
5	416 15 46-01	Base plate adjustment screw	62 416 12 11-01 Set screw (M4×10B)
6	416 15 58-01	Bobbin shaft oil cloth	63 416 19 31-01 Feed crank
7	416 14 54-01	Bobbin shaft	64 416 18 65-01 Washer (8.2×12×0.5)
8	416 15 56-01	Bobbin shaft washer (2)	65 416 14 17-01 Lower shaft bushing
9	416 12 59-01	Endure attrition washer	66 416 19 27-01 Feed dog spring
10	416 14 80-01	Shuttle hook complete	67 416 19 13-01 Feed lifting rock com pin
11	416 15 55-01	Magnet	68 416 18 50-01 Set screw (M3.5×0.6 L8)
12	416 15 60-01	Shuttle hook holder	69 416 13 62-01 Feed regulating complete
13	416 15 57-01	Bobbin shaft washer (3)	70 416 19 57-01 Feed rock crank spring
14	416 14 36-01	Needle plate cover	71 416 18 63-01 Washer (5.2×12×1)
15	416 11 95-01	Set screw (M3×12)	72 416 18 74-01 Feed regulating crank spring
16	416 19 17-01	Rotary hook holder	73 416 12 24-01 Set screw (M4×4)
17	416 19 18-01	Rotary hook holder positioned plate	
18	416 12 12-01	Set screw (M4×6 B)	
19	416 14 34-01	Rotary hook supporter	
20	416 12 26-01	Set screw (M4×8)	
21	416 12 15-01	Set screw (M4×8 A)	
22	416 20 05-01	Feed rock cam	
23	416 12 24-01	Set screw (M4×4)	
24	416 19 11-01	Lower shaft	
25	416 20 06-01	Feed rock cam complete	
26	416 19 14-01	Lower shaft spring	
27	416 19 19-01	Feed rock shaft	
28	416 19 21-01	Feed dog shaft	
29	416 12 21-01	Set screw (M4×6)	
30	416 14 27-01	Feed rock frame shaft (2)	
31	416 19 12-01	Feed lifting rock cam	
32	416 11 61-01	E-Ring (ETW-4)	
33	416 11 64-01	E-Ring (ETW-6)	
34	416 15 87-01	Lower shaft collar	
35	416 19 24-01	Feed rock crank	
36	416 19 26-01	Regulating block shaft	
37	416 19 25-01	Feed rock shaft	
38	416 11 60-01	E-Ring (ETW-3)	
39	416 12 58-01	Endure attrition washer	
40	416 19 20-01	Feed dog supporter	
41	416 19 22-01	Feed dog	
42	416 14 20-01	Lower shaft belt pulley	
43	416 15 88-01	Lower shaft collar complete	
44	416 19 23-01	Feed lifting rock crank	
45	416 19 71-01	Lower shaft gear complete	
46	416 12 68-01	Adjusting nut (ALN-4)	
47	416 18 55-01	Set screw (M4×0.7 L9)	
48	416 19 15-01	Belt adjusting plate complete	
49	416 19 16-01	Belt adjusting plate	
50	416 15 20-01	Belt adjusting plate pulley	
51	416 12 05-01	Set screw (M3×14.5)	
52	416 14 96-01	Feed regulating block	
53	416 19 29-01	Feed regulating plate complete	
54	416 14 97-01	Feed regulating	
55	416 12 56-01	Endure attrition washer	
56	416 15 69-01	Feed rock bushing	
57	416 12 40-01	Washer (6.7×12×1)	

G

Standard accessories



Standard accessories

No.	Part No.	Description
1	416 18 71-01	Zig zag foot (C)
2	416 12 87-01	Zipper foot (I)
3	416 18 70-01	Buttonhole foot
4	416 12 91-01	Quilting foot (P)
5	416 12 74-01	Darning /Embroidery foot
6	416 15 75-01	Second spool pin
7	416 15 71-01	Spool holder (Large)
8	416 15 76-01	Spool holder (Small)
9	401 53 99-01	Seam ripper
	401 55 55-01	Brush
10	416 12 71-01	Seam guide
11	416 12 76-01	Bobbin (3X)
12	416 08 88-01	Needle 10x80 Pack of needles
13	412 38 15-01	L-screw driver
14	416 22 39-01	Darning plate
15	416 12 72-01	Accessories bag