



PARTS BOOK

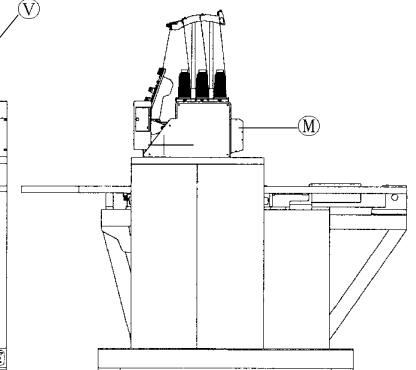
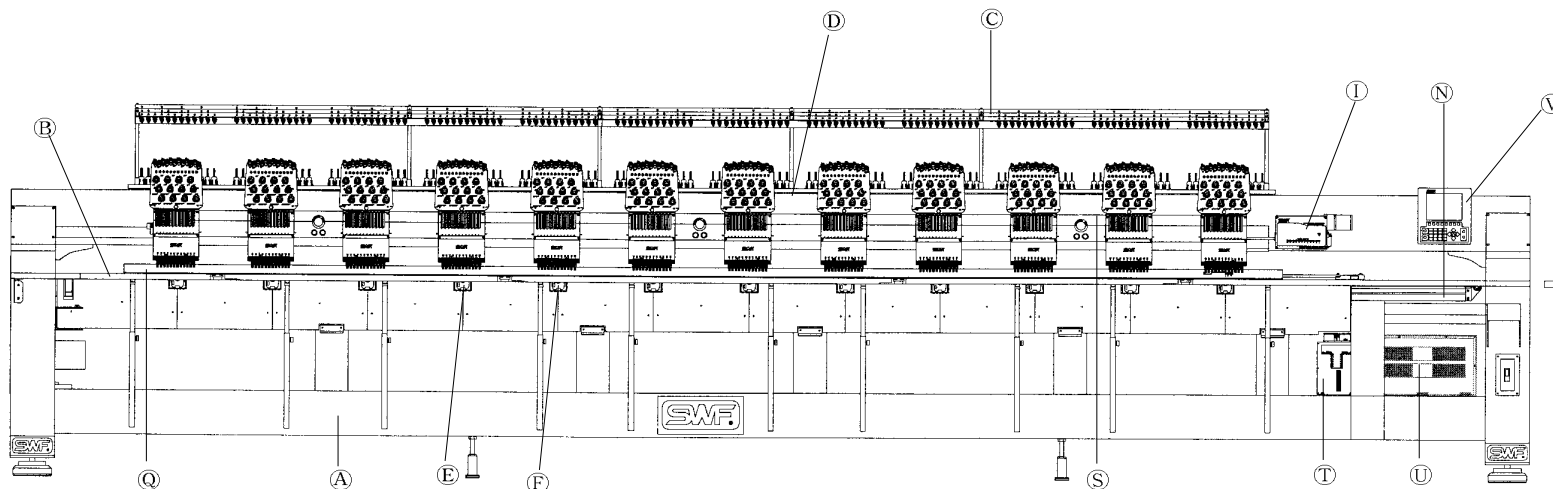
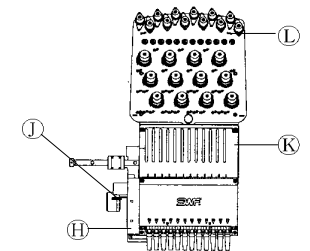
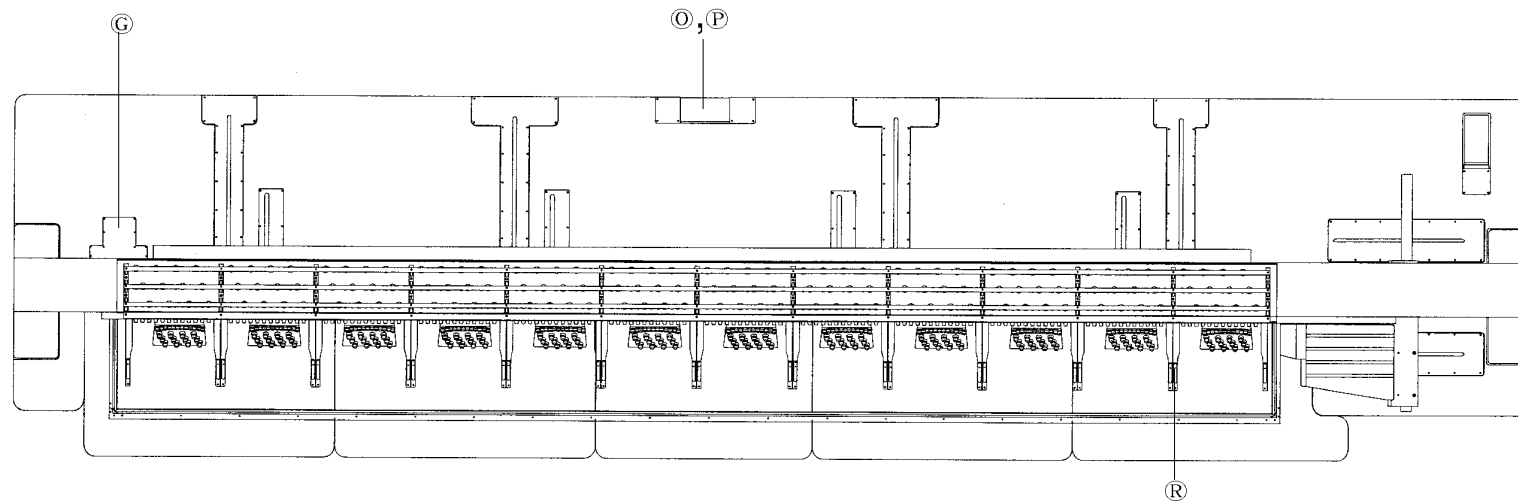
**15-HEAD AUTOMATIC
EMBROIDERY MACHINE
(CYLINDER BRIDGE TYPE)**

SUNSTAR®

PME-050530

SUNSTAR PRECISION CO., LTD.

Machine Layout





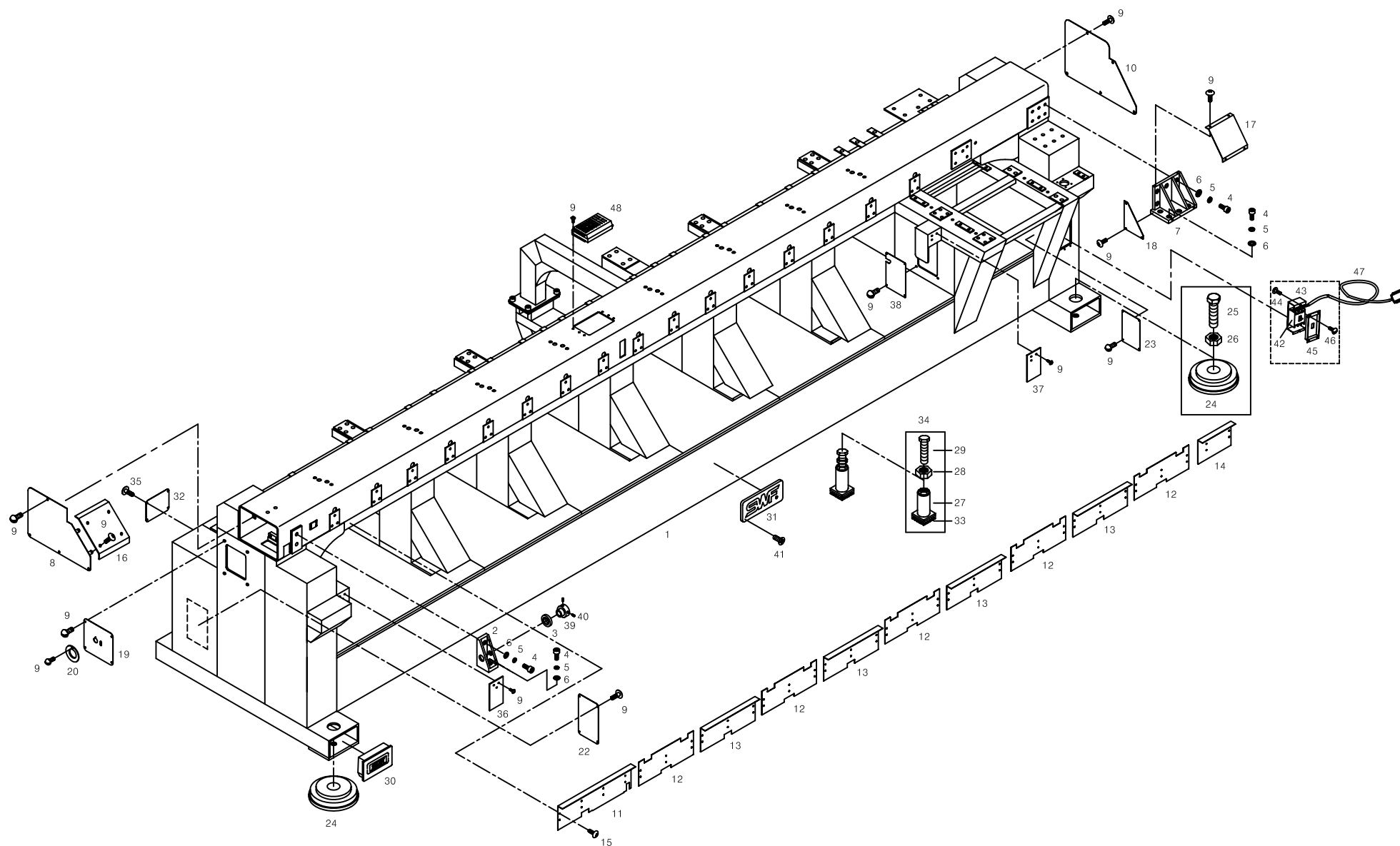
CONTENT

A	Machine Body Ass'y	7
B	Work Table	9
C	Spool Stand	11
D	Main Drive System	13
E	Bed I	17
F	Bed II	19
G	Thread Cutting Drive System	21
H	Arm I	23
H1	Arm II	27
I	Color Change Set	29
J	Upper Thread Catcher Set	31
K	Head	35
L	Thread Tension Unit	39
M	Sub - Control	41
N	X - Axis Drive Set	43
O	Y - Axis Drive Set I	45
P	Y - Axis Drive Set II	49
Q	Frame	51
Q1	Border Frame (Option)	53
R	Tubular Frame	55
S	S/B Switch	57
T	X - Y Driver	59
U	Main Controller	61
V	Operation Box	63
W	Bobbin Winder	65
X	Lubrication	67

※ 본책자는 파트북으로 제작되었으므로 메뉴얼로 사용불가합니다.
(This is a parts book. It cannot be used as a manual.)

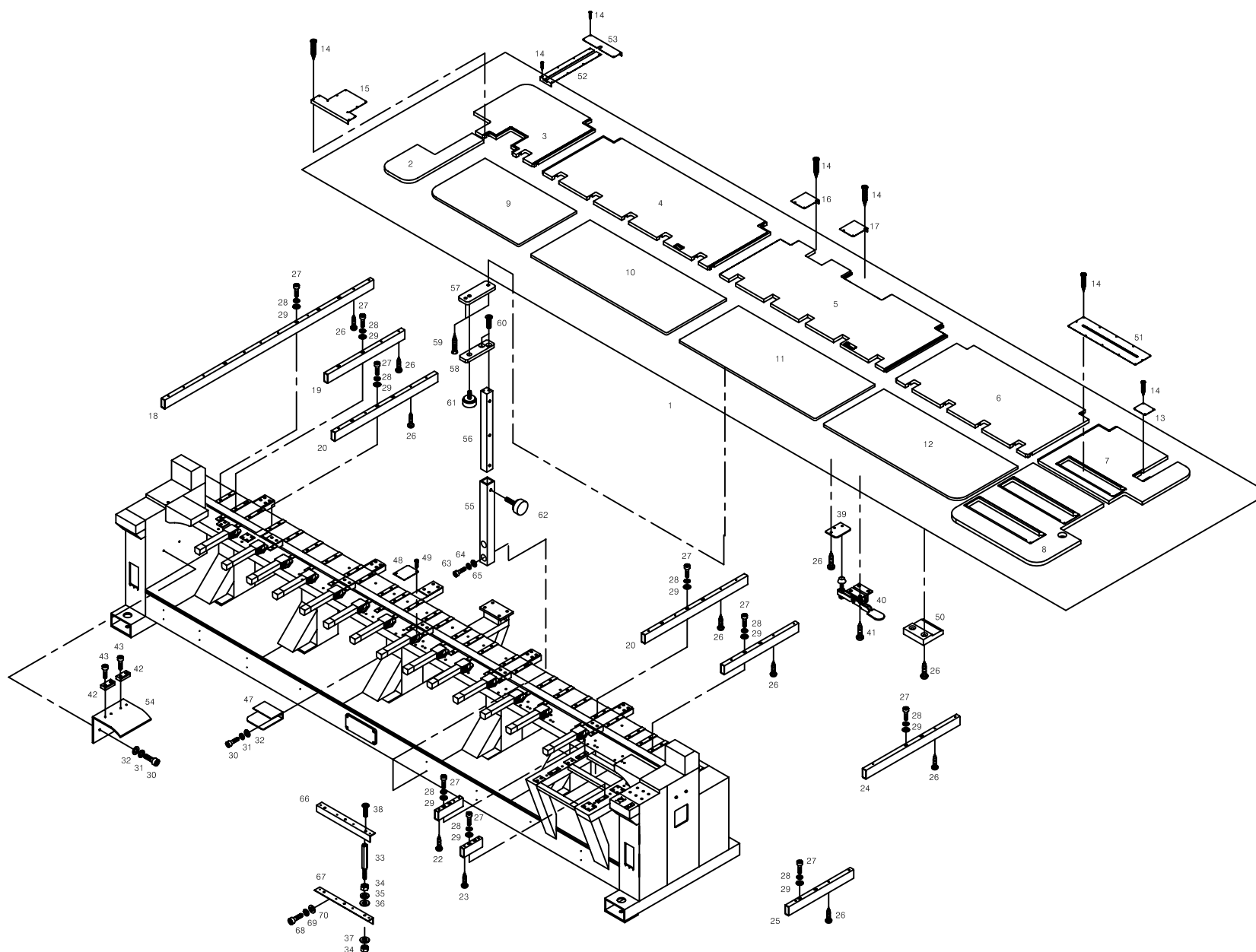
A

Machine Body Ass'y



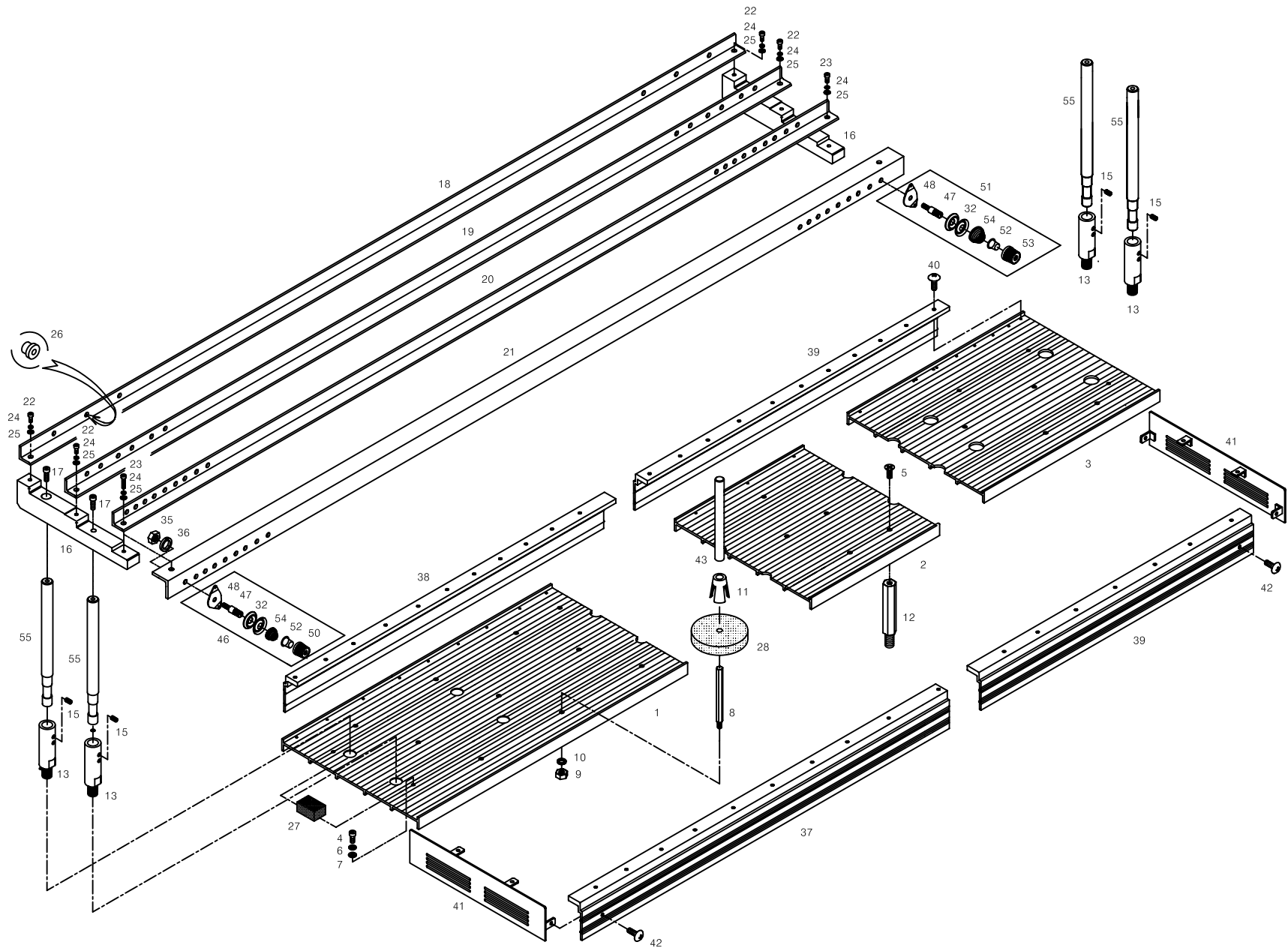
B

Work Table



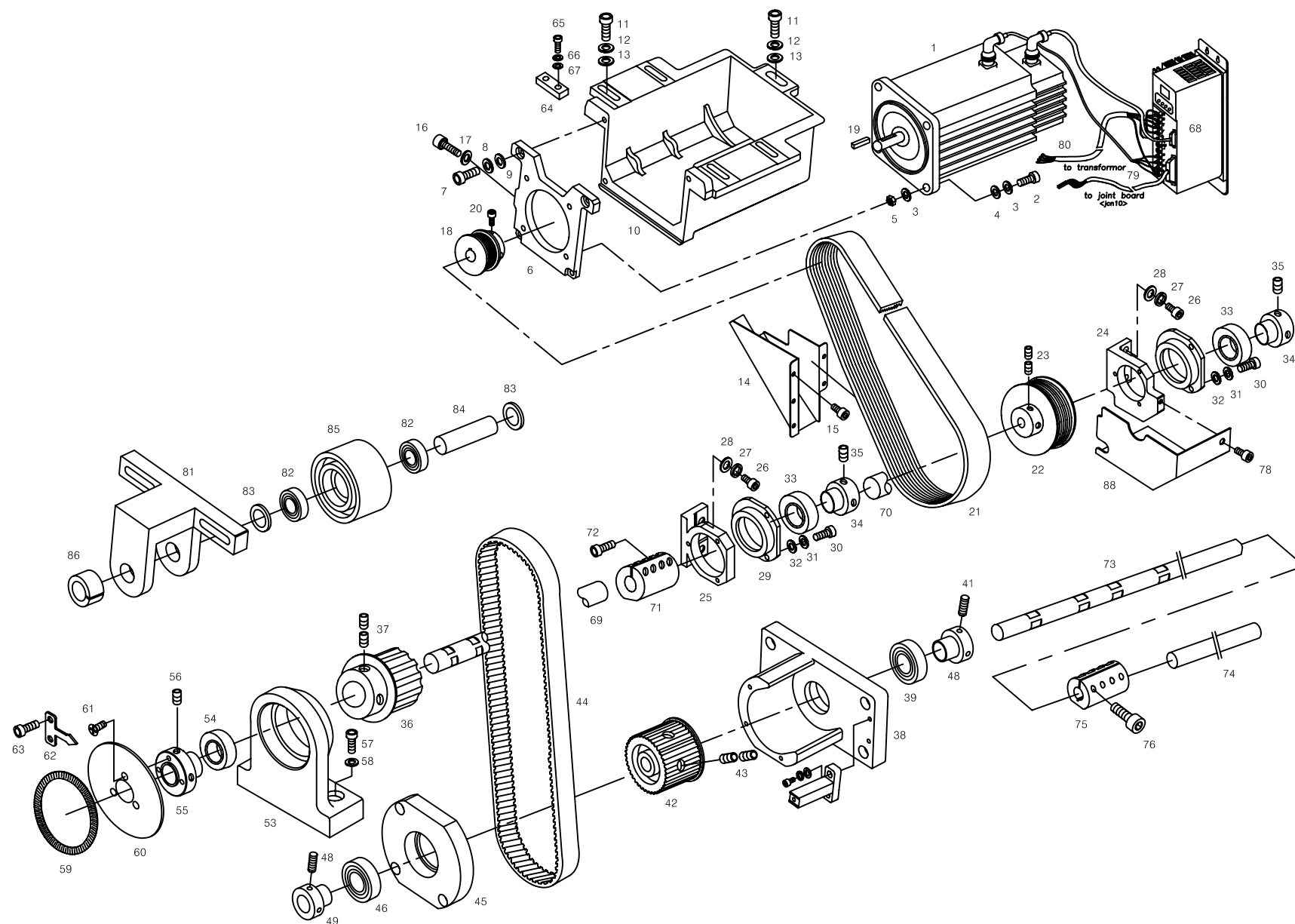
C

Spool Stand



D

Main Drive System

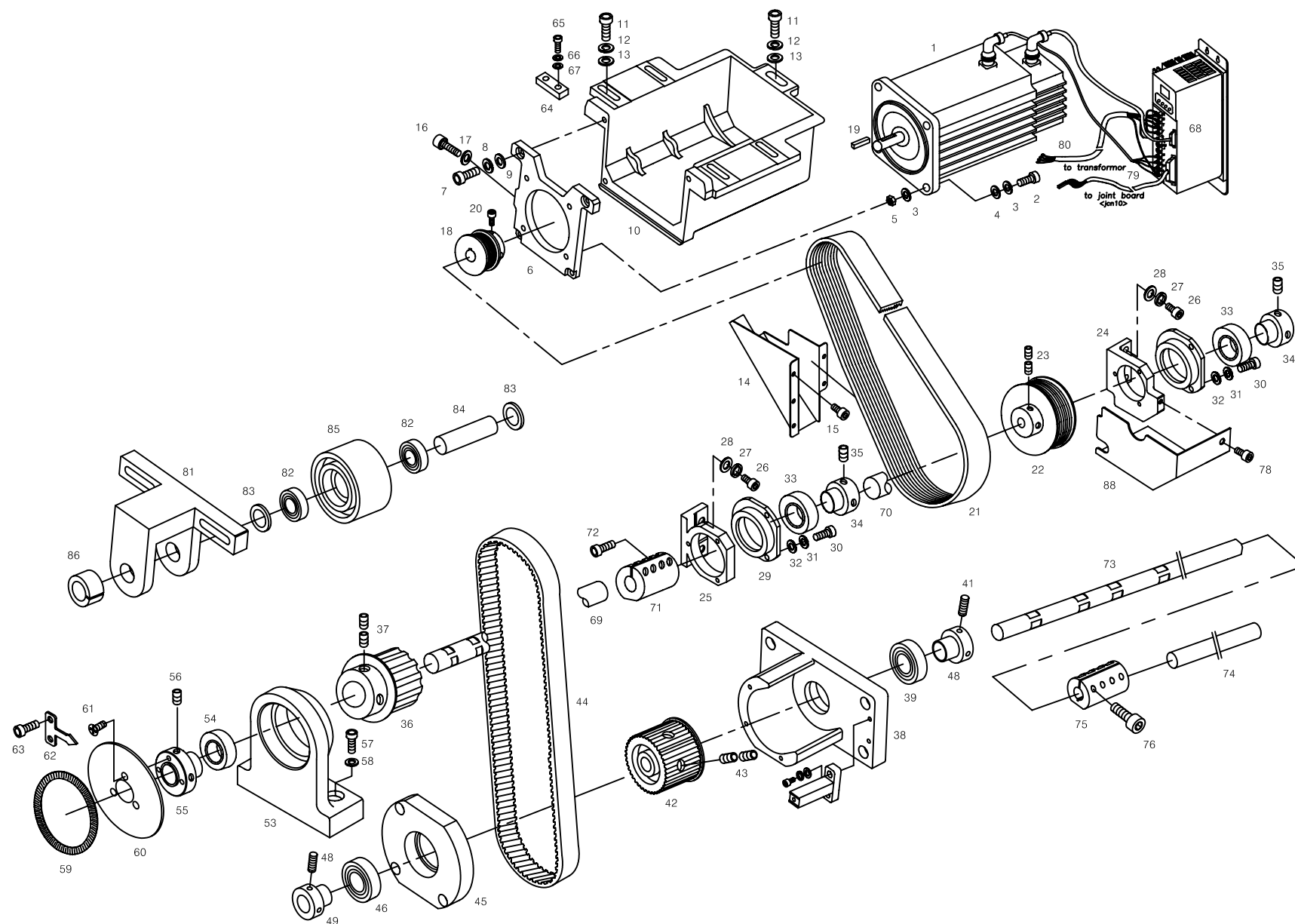


Ref.No	Part No.	Part Names	Q'ty
D-001	14026AF-B001	Main Motor (Sanyo, 1Kw)	1
D-002	15019SC-4113	Hex. Socket Bolt (M8*L40)	4
D-003	15095SW-3115	Spring Washer (@8)	8
D-004	04029SW-A001	Stud Bolt Washer(S) (@8)	4
D-005	04032SN-A001	Hex. Nut (M8-No2)	4
D-006	03100510H000	Bracket	1
D-007	14027SC-4113	Hex.Socket Bolt (M8*L30)	4
D-008	15095SW-3115	Spring Washer (@8)	4
D-009	04029SW-A001	Stud Bolt Washer(S) (@8)	4
D-010	03100210H000	Main Motor Bracket	1
D-011	14027SC-4113	Hex.Socket Bolt (M8*L30)	5
D-012	15095SW-3115	Spring Washer (@8)	5
D-013	04029SW-A001	Stud Bolt Washer(S) (@8)	5
D-014	12000720H000	Top Shaft Driving Belt Cover	1
D-015	05008SC-4113	Hex.Socket Bolt (M4*L16)	5
D-016	15020SC-4113	Hex,Socket Bolt (M8*L50)	1
D-017	04029SW-A001	Stud Bolt Washer(S) (@8)	1
D-018	03100400H000	Main Motor Pulley	1
D-020	03016SC-4113	Hex. Socket Bolt (M5*L15)	3
D-021	03100700H000	Main Driving Belt 290J*10R	1
D-022	03005010H000	Top Shaft Drive Pulley	1
D-023	14061AF-4517	Hex.Socket Screw(M8*L8)	4
D-024	03005110H000	Top Shaft Bracket "A"	1
D-025	03008400H000	Top Shaft Bracket "C"	1
D-026	08087SC-7113	Hex. Socket Bolt (M8*L25)	4
D-027	15095SW-3115	Spring Washer (@8)	4
D-028	04029SW-A001	Stud Bolt Washer(S) (@8)	4
D-029	03008500H000	Top Shaft Bearing Case "B"	2
D-030	03016SC-4113	Hex. Socket Bolt (M5*L15)	6
D-031	18048SW-3115	Spring Washer (5@)	6
D-032	18049SW-3111	Washer (@5)	6
D-033	01000100H000	Hex. Bolt (M16*L60)	2
D-034	03005210H000	Collar "A"	2
D-035	14060AF-4517	Hex.Socket Screw(M6*L6)	4
D-036	03005300UHF0	Timing Pulley 38-S5M-040-Bf	1
D-037	14061AF-4517	Hex.Socket Screw(M8*L8)	4
D-038	14024CA-UI12	Timing Pulley Housing	1
D-039	01029BR-A001	Ball Bearing (6004Zz)	1
D-040	14058CW-A001	Collar "A"	1
D-041	14060AF-4517	Hex.Socket Screw(M6*L6)	2

Ref. No	Part No.	Part Names	Q'ty
D-042	03200220H000	Low Shaft Timing Pulley	1
D-043	14061AF-4517	Hex.Socket Screw(M8*L8)	4
D-044	03200300UHF0	Timing Belt (40C-S5M-950-F)	1
D-045	14028CW-UI12	Housing Cover	1
D-046	01029BR-A001	Ball Bearing (6004Zz)	1
D-047	14058CW-A001	Collar "A"	1
D-048	14060AF-4517	Hex.Socket Screw(M6*L6)	2
D-049	14002SC-7113	Hex.Socket Bolt (M6*L15)	4
D-053	03005410H000	Top Shaft Bracket "B"	1
D-054	01001100H000	Ball Bearing (6005Zz)	1
D-055	03005510H000	Collar "B" @20	1
D-056	14060AF-4517	Hex.Socket Screw(M6*L6)	2
D-057	08091SC-7113	Hex. Socket Bolt (M6*L20)	2
D-058	16014SW-4115	Spring Washer (@6)	2
D-059	03005600H000	Angle Disk	1
D-060	03005710H000	Angle Plate Base @20	1
D-061	21002SC-8119	Plus Screw (M3-L8)	3
D-062	03005800H000	Indicator	1
D-063	02023SC-7113	Hex.Socket Bolt (M4*L8)	2
D-064	03100600H000	Main Motor Guide	2
D-065	05008SC-4113	Hex.Socket Bolt (M4*L16)	4
D-066	18014SW-3115	Spring Washer (@4-No2)	4
D-067	18015SW-3111	Washer (4@)	4
D-068	24031AF-B001	Main Motor Drive (Sanyo,1Kw)	1
D-069	03000300UHF0	Upper Shaft "A" (@20,L1784)	1
D-070	03000400UHF0	Upper Shaft "B" (@20,L1100)	1
	03000500UHF0	Upper Shaft "C" (@20,L800)	1
	03000600UHF0	Upper Shaft "E" (@20,L1600)	1
D-071	03006710HDK0	Coupling @20	4
D-072	08091SC-7113	Hex. Socket Bolt (M6*L20)	16
D-073	03000700UHF0	Lower Shaft "A" (@15,L363)	1
D-074	03000800UHF0	Lower Shaft "B" (@15,L1935)	3
D-075	03007500H000	Low Coupling (High-Speed)	3
D-076	08091SC-7113	Hex. Socket Bolt (M6*L20)	12
D-078	18033SC-3123	Truss Screw (M5*L6)	2
D-079	02100500HDK2	Main Power Driver To J/B	1
D-080	02100600HDK2	Main Motor Power Cable	1
D-081	14037CA-UI12	Idler Bracket	1
D-082	01029BR-A001	Ball Bearing (6004Zz)	2
D-083	14042PR-UI12	Idler Shaft Space	2

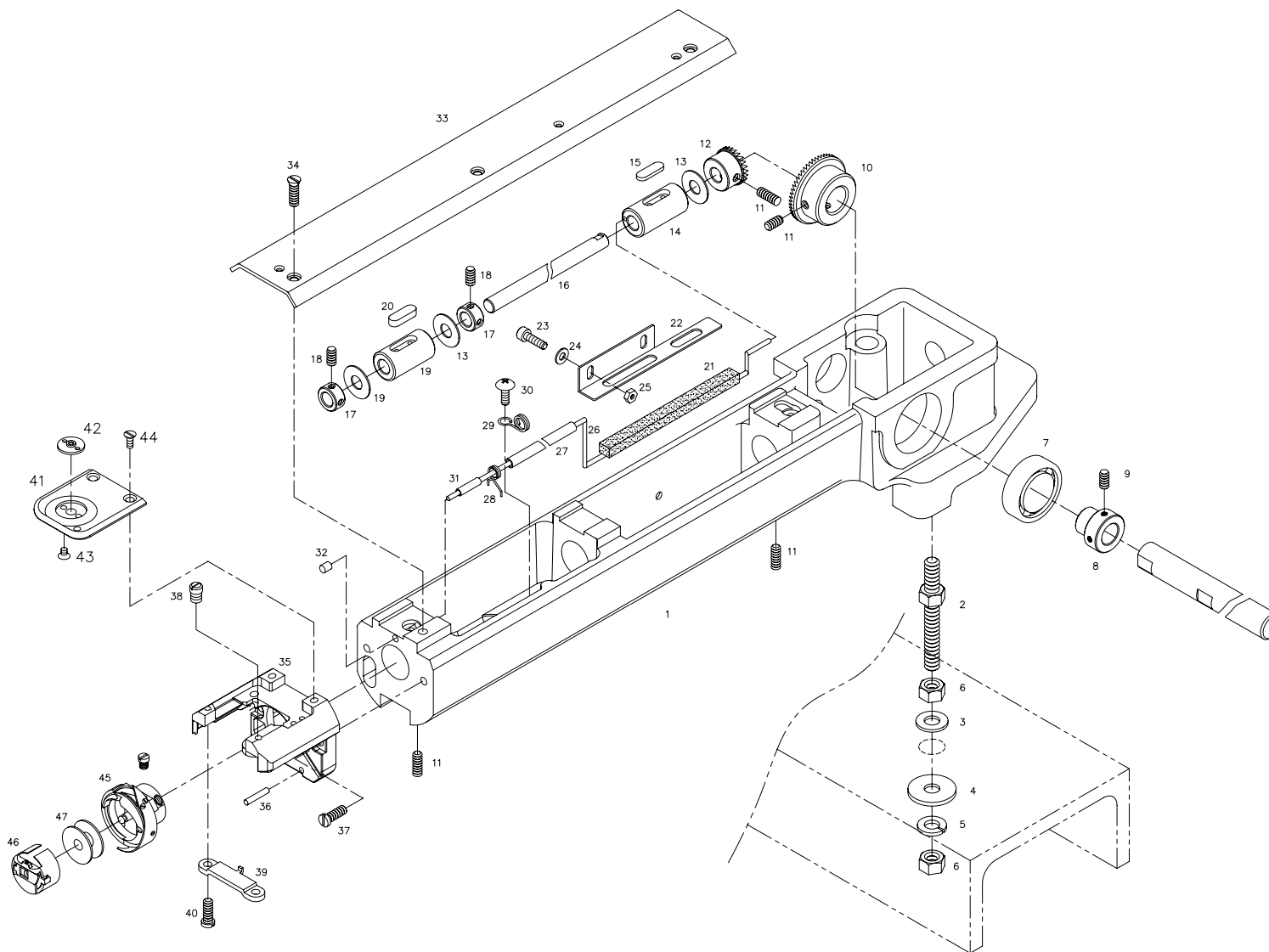
D

Main Drive System



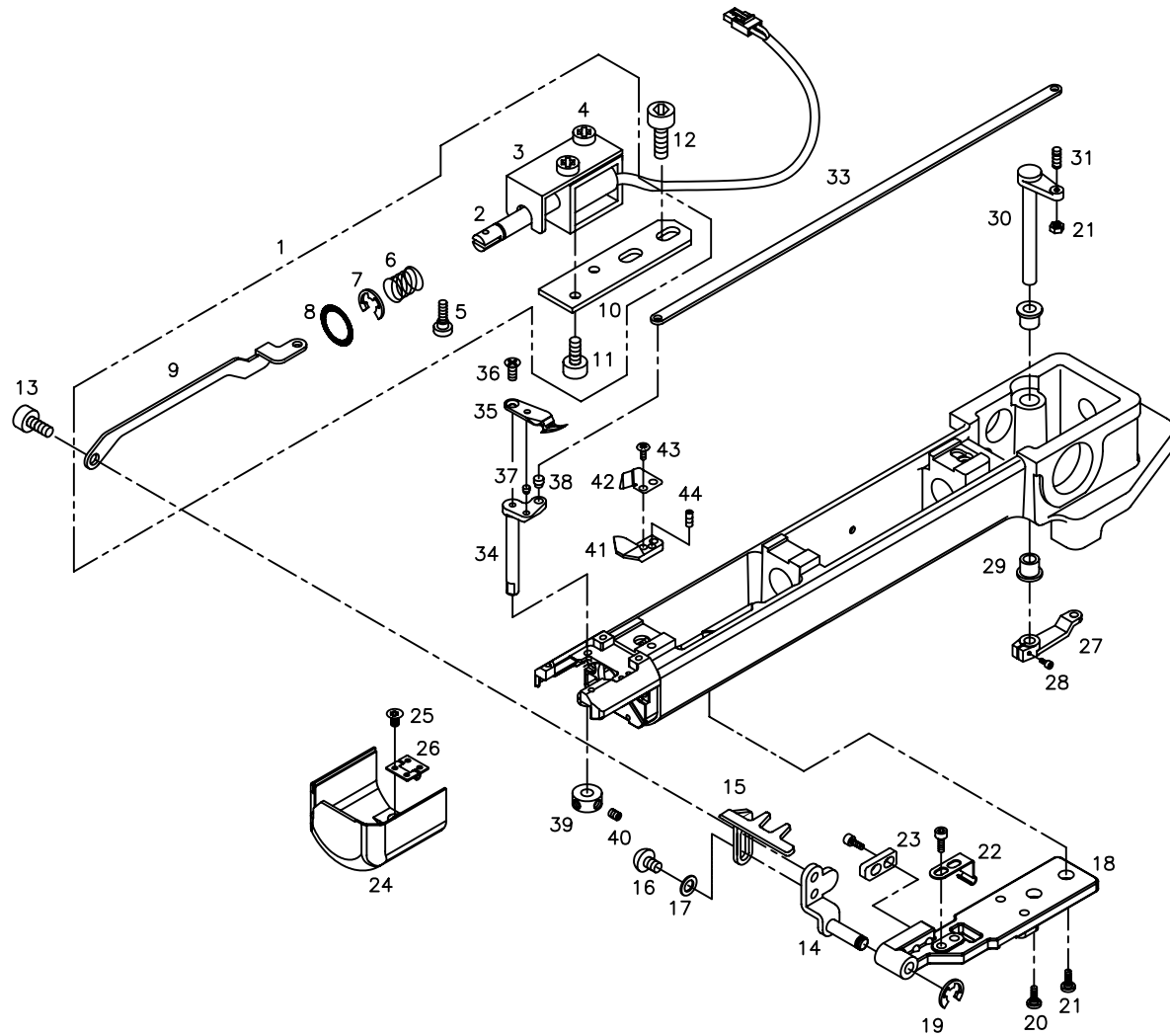
E

Bed I



F

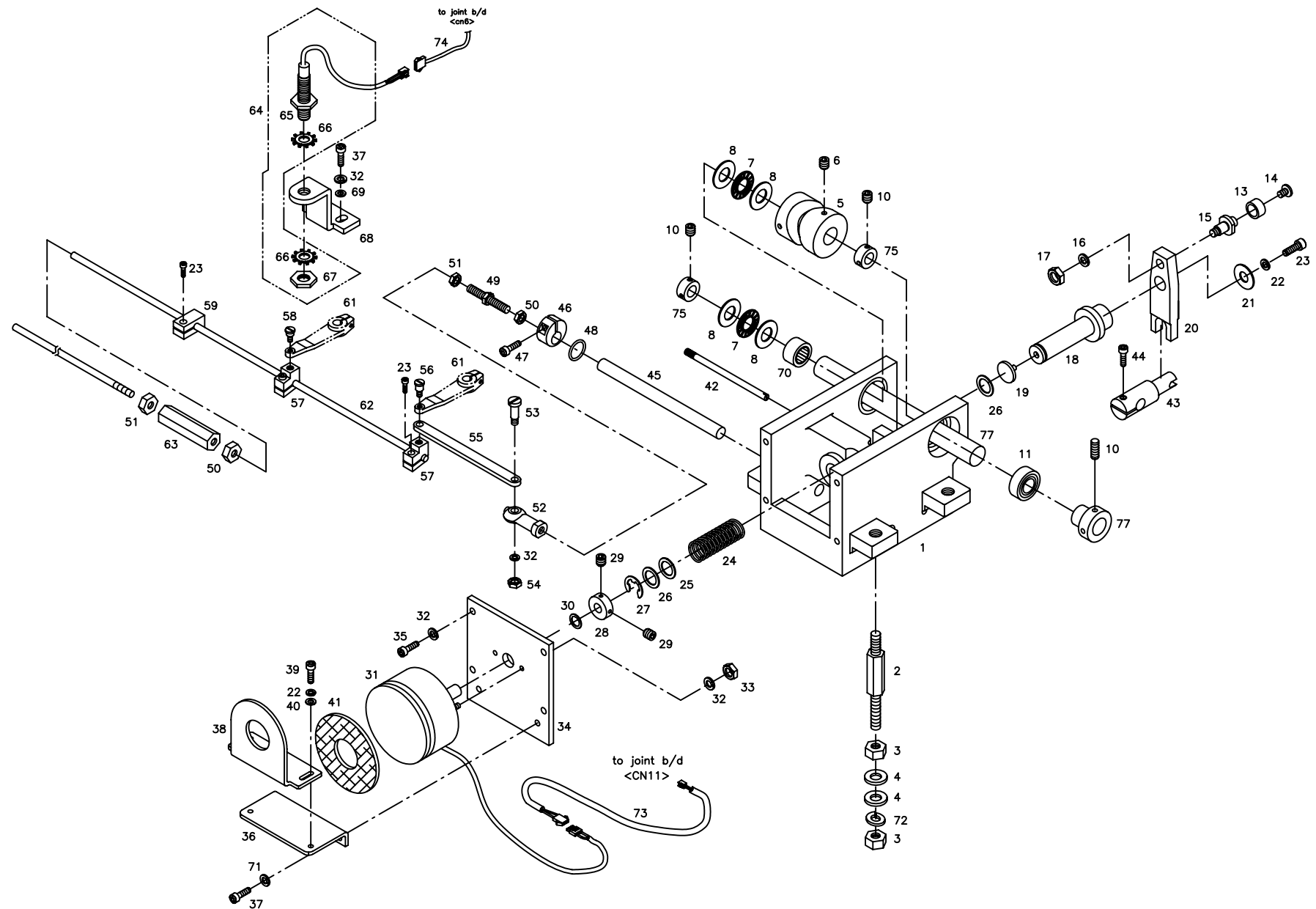
Bed II



[illegible]

G

Thread Cutting Drive System

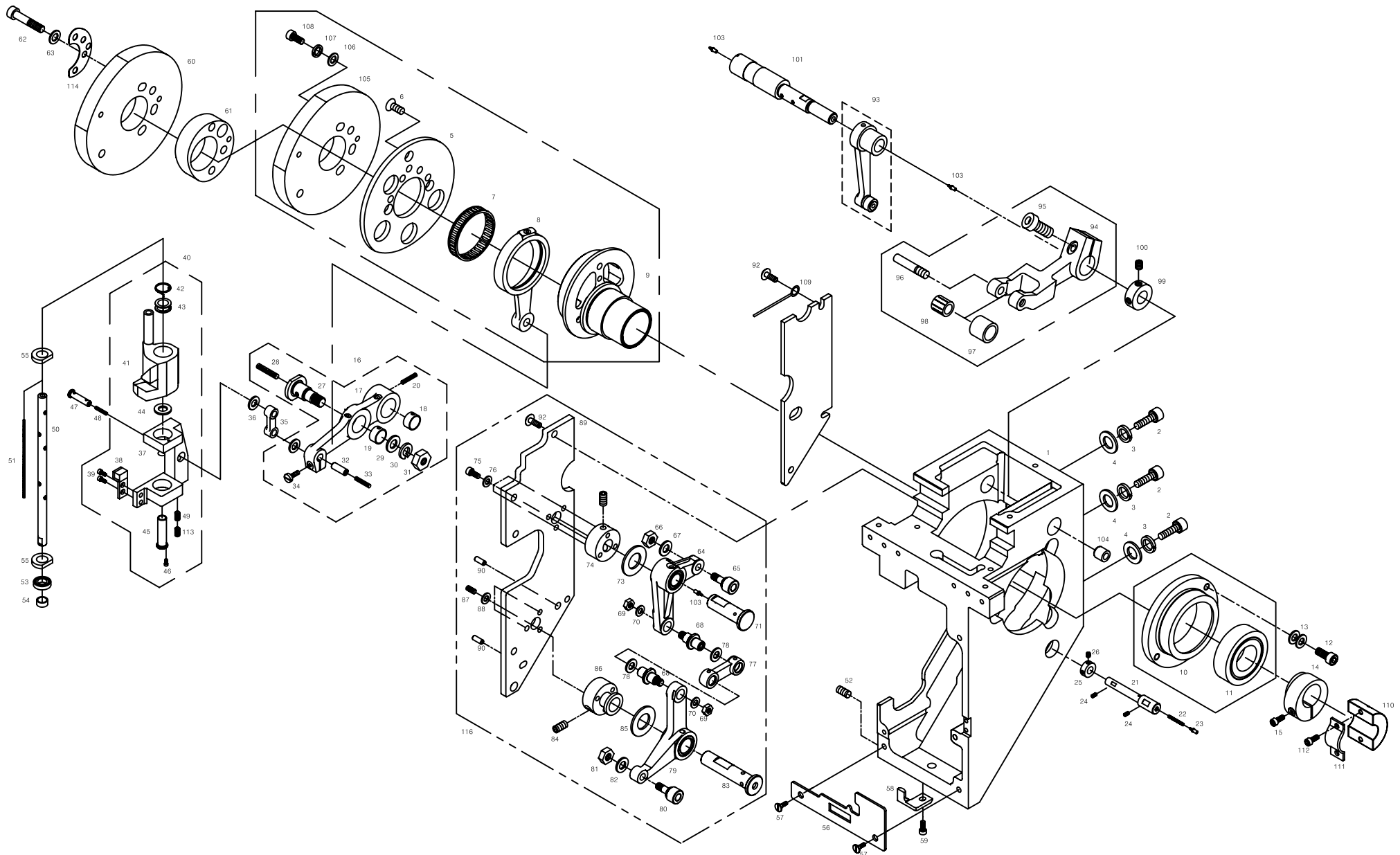


Ref.No	Part No.	PartNames	Q'ty
G-001	08032CS-UI12	Mes Cam Driving Box	1
G-002	08033CW-UI12	Box Stud Bolt (M10*P1.25*L69	4
G-003	26032SN-1211	Hex. Nut (M10-No2)	8
G-004	04013PR-B001	Washer (3.2T,@10)	4
G-005	08037CM-UI12	Mes Cam	1
G-006	08038SC-UI12	Hex.Socket Set Screw	3
G-007	08027BR-A001	Thrust Bearing (Nth 1528)	2
G-008	08028BR-A001	Thrust Washer (As 1528)	4
G-010	04016AF-A001	Cam Collar Screw	6
G-011	04026BR-A001	Ball Bearing 6003Z	1
G-012	04020CW-A001	Bearing Bushing	1
G-013	08046CW-UI12	Cam Roller	1
G-014	08047SC-UI12	Cam Roller Screw	1
G-015	08048CW-UI12	Cam Collar Pin	1
G-016	16014SW-4115	Spring Washer (@6)	1
G-017	08058SN-1311	Hex. Nut (M6-No3)	1
G-018	08047CW-A001	Lever Support Pin	1
G-019	08052RB-A001	Lever Support Pin Cushion	1
G-020	08053CL-UI12	Mes Cam Lever	1
G-021	08053PR-A001	Lever Washer	1
G-022	02028SW-9115	Spring Washer (@4)	3
G-023	02015SC-7113	Hex.Socket Bolt(M4*L10)	48
G-024	08057SP-UI12	Lever Return Spring	1
G-025	08050SW-A001	Lever Stopper Pin Washer	1
G-026	08049RB-A001	Cushion Washer (T1)	2
G-027	08051SR-4013	E-Ring (@12)	1
G-028	08073CW-A001	Solenoid Collar	1
G-029	08113SC-A001	Collar Screw	2
G-030	08072RB-A001	Cushion Rubber	1
G-031	08068EL-A001	Thread Trimming Solenoid Ass'	1
G-032	18048SW-3115	Spring Washer (@5)	9
G-033	12010SN-1211	Hex. Nut (M5-No3)	2
G-034	08068PR-UI12	Solenoid Base Plate	1
G-035	08076SC-7113	Hex. Socket Bolt (M5*L12)	4
G-036	08071PR-UI12	Attach Plate "A"	1
G-037	02031SC-7113	Hex. Socket Screw(M5*L10)	4
G-038	08074PR-UI12	Attach Plate "B"	1
G-039	02023SC-7113	Hex. Socket Bolt (M4*L8)	2
G-040	02063SW-1111	Washer(@4)	2
G-041	08071SF-A001	Solenoid Cushion	3

Ref. No	Part No.	Part Names	Q'ty
G-042	08079CW-UI12	Mes Driving Guide Shaft	1
G-043	08080CW-UI12	Lever Driver Pin	1
G-044	08062SC-7113	Hex. Socket Bolt (M5*L20)	1
G-045	08028CW-UI12	Mes Driving Shaft	1
G-046	08065CW-A001	Stopper Collar	1
G-047	03016SC-4113	Hex. Socket Bolt (M5*L15)	1
G-048	08067RB-A001	O-Ring (@10)	1
G-049	08025CW-UI12	Adjusting Bolt	1
G-050	13042SN-1111	Hex.Nut (M6*T5-R)	4
G-051	17053SN-1111	Hex. Nut(L) (M6*T5-L)	3
G-052	08024BR-UI12	Rod End Bearing (Thk Nhs6T1)	1
G-053	08021CW-UI12	Link Stud Bolt "B"	1
G-054	12010SN-1211	Hex. Nut (M5-No3)	1
G-055	03000700TH00	Thread Lever Connect Link	1
G-056	08016CW-UK01	Link Stud Bolt	1
G-057	08023CL-UK01	Mes Shaft Cramp	12
G-058	08019CW-UK01	Clamp Stud Bolt	11
G-059	08023CW-A001	Mes Shaft Cramp	1
G-061	02100400U000	Mes Driving Lever	12
G-062	03001000UHF0	Mes Driving Shaft "A"(L1865)	1
	03001100UHF0	Mes Driving Shaft "B"(L1865)	1
	03001200UHF0	Mes Driving Shaft "C"(L1865)	1
G-063	17051SN-A001	Mes Priving Shaft Joint	3
G-064	08102EL-A001	Zero Point Sensor Ass'Y	1
G-068	08070PR-UK01	Sensor Bracket	1
G-069	16018SW-1111	Washer (@5)	2
G-070	04027BR-A001	Needle Bearing (Hmk1515)	1
G-071	18048SW-3115	Spring Washer (@5)	2
G-072	01008SW-9115	Spring Washer(@10)	4
G-073	25023EL-UI12	Cable (12Ht-28)	1
G-074	25035EL-UI12	Cable (12Ht-35)	1
G-075	03704900A000	Cam Shaft Collar	2
G-077	14060SH-UI12	LOW SHAFT "A" (@15,L187)	1

H

Arm I

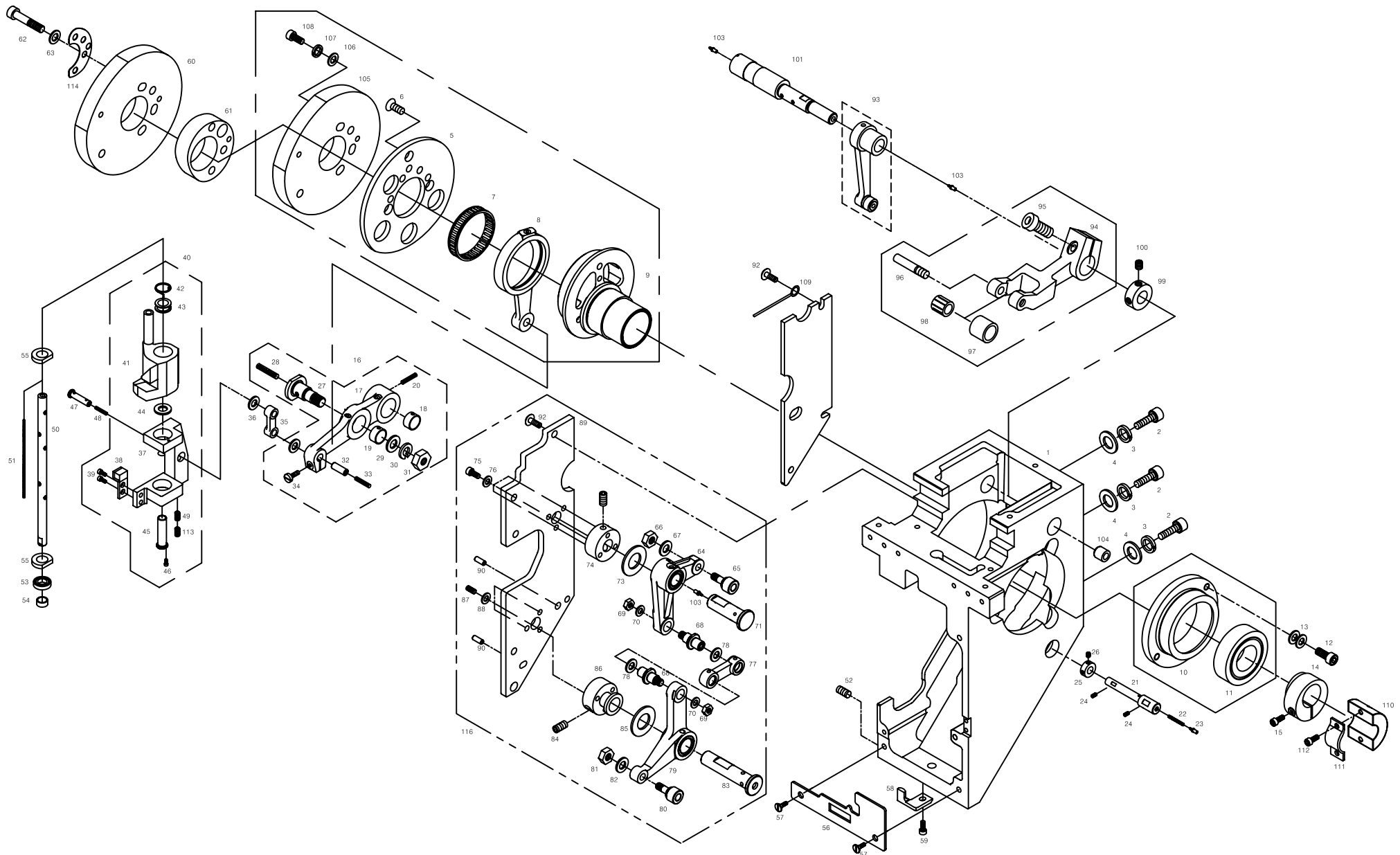


Ref.No	Part No.	PartNames	Q'ty
H-001	GP-009407-00	ARM	15
H-002	03003SC-4113	Hex. Socket Bolt	45
H-003	15095SW-3115	Spring Washer (@8)	45
H-004	04029SW-A001	Stud Bolt Washer(S) (@8)	45
H-005	GP-005992-00	CAM BASE	15
H-006	03007SC-A001	Cam Base Screw	45
H-007	03302900H000	NEEDLE CASE (KT-42469)	15
H-008	03303000H000	Connecting Rod	15
H-009	GP-005990-00	NEEDLE BAR DRIVING CAM	15
H-010	03303100H000	Bearing Case A @20	15
H-011	01001100H000	Ball Bearing (6005Zz)	15
H-012	02031SC-7113	Hex. Socket Screw(M5*L10)	15
H-013	02030SW-B001	Washer (5@)	90
H-014	03000110H000	Cam Tightening Collar (@20)	15
H-015	03016SC-4113	Hex. Socket Bolt (M5*L15)	15
H-016	03313200I000	NEEDLE BAR DRIVE LEVER(SET)	15
H-017	03000600I000	NEEDLE BAR DRIVE LEVER	15
H-018	03307200A000	Needle Driving Lever Bushing	15
H-019	03307300A000	Needle Driving Lever Bushing	15
H-020	32003ET-T121	Wick	15
H-021	03300500H000	NEEDLE BAR DRIVE PIN	15
H-022	32003ET-T121	Wick	15
H-023	01301600H000	Hook Oil Supply Nipple	30
H-024	03020SC-A001	Drive Pin Screw 11/64,N40,L8	15
H-025	01101300A000	Hook Shaft Collar	30
H-026	04012AF-A001	Hook Shaft Bush Screw	15
H-027	03023SC-A001	Connecting Rod Stud	15
H-028	32003ET-T121	Wick	15
H-029	03025SW-1211	Washer (@6)	15
H-030	03026SW-9115	Spring Washer (@6)	15
H-031	03027SN-A001	Stud Nut	15
H-032	03303300H000	Lever Pin	15
H-033	32003ET-T121	Wick	15
H-034	02015SC-7113	Screw(M4*L10)	15
H-035	03003200A000	Needle Bar Drive Rink	15
H-036	03034SW-A001	Reciprocator Washer	15
H-037	03600100I000	Needle Bar Driving Shaft Driver	15
H-038	03047PM-CT01	Stopper-A'ssy	15
H-039	26006MC-8118	Stopper Screw (M2.6*L6)	30
H-040	03600000I000	Needle Bar Reciprocator A'ssy	15

Ref. No	Part No.	Part Names	Q'ty
H-041	03600200I000	Needle Bar Reciprocator	15
H-042	03045SP-B001	Jump Spring	15
H-043	03046CW-B001	Jump Spring Guide	15
H-044	03048SW-A001	Reciprocator Washer	15
H-045	03304710A000	NEEDLE BAR DRIVING SHAFT BUSH	15
H-046	09005SC-3123	Truss Screw (M3*L6)	15
H-047	03033CW-A001	Driver Pin	15
H-048	32003ET-T121	Wick	15
H-049	03020SC-A001	Drive Pin Screw 11/64,N40,L8	15
H-050	03007900H000	Needle Bar Driving Shaft	15
H-051	32003ET-T121	Wick	15
H-052	03020SC-A001	Drive Pin Screw 11/64,N40,L8	15
H-053	03008000H000	Ball Bearing 6800	15
H-054	03008100K000	Needle Bar Drive Bearing Bush	15
H-055	03042SF-T121	FELT "A"	30
H-056	03302600I000	Arm Bearing Guide Plate	15
H-057	05062SC-A001	Bolt (9/64" n=40)	30
H-058	03056CL-B001	Head Rail Holder	15
H-059	03057SC-A001	Head Rail Holder Screw	15
H-060	GP-005991-00	PRESSER FOOT DRIVING CAM	15
H-061	03301000I000	Csm Spacer	15
H-062	SC-000284-00	SCREW FOR DRIVING LEVER	45
H-063	WS-000082-00	PRESSER FOOT DRIVING CAMWASHER	45
H-064	AS-001608-01	PRESSER FOOT DRIVING LEVER A SET	15
H-065	AS-000392-00	Presser Foot Driving Roller Hinge Pin Assy'	15
H-066	15029SN-3211	Nut (@4)	15
H-067	18015SW-3111	Washer (@4)	15
H-068	03800300I000	Presser Foot Driving Lever Pin (C)	15
H-069	03031SN-A001	Nut (11/64" n=40)	15
H-070	18048SW-3115	Washer	15
H-071	PN-000152-00	PRESSER FOOT DRIVING LEVER PIN A	15
H-072	14060AF-4517	Hex. Socket Bolt (M6*L6)	15
H-073	16014SW-4115	Washer	15
H-074	03800500I000	Presser Foot Driving Lever Bracket (A)	15
H-075	03071SC-7113	HEX. SOCKET BOLT (M3*L10)	45
H-076	11019SW-9115	Washer (@3)	45
H-077	03800600I000	Presser Foot Drving Lever Connecting Link	15
H-078	03034SW-A001	Washer	30
H-079	AS-002051-01	PRESSER FOOT DRIVING LEVER B SET	15
H-080	03800800I000	Presser Foot Stopper Roller Hinge Pin (C) Assy'	15

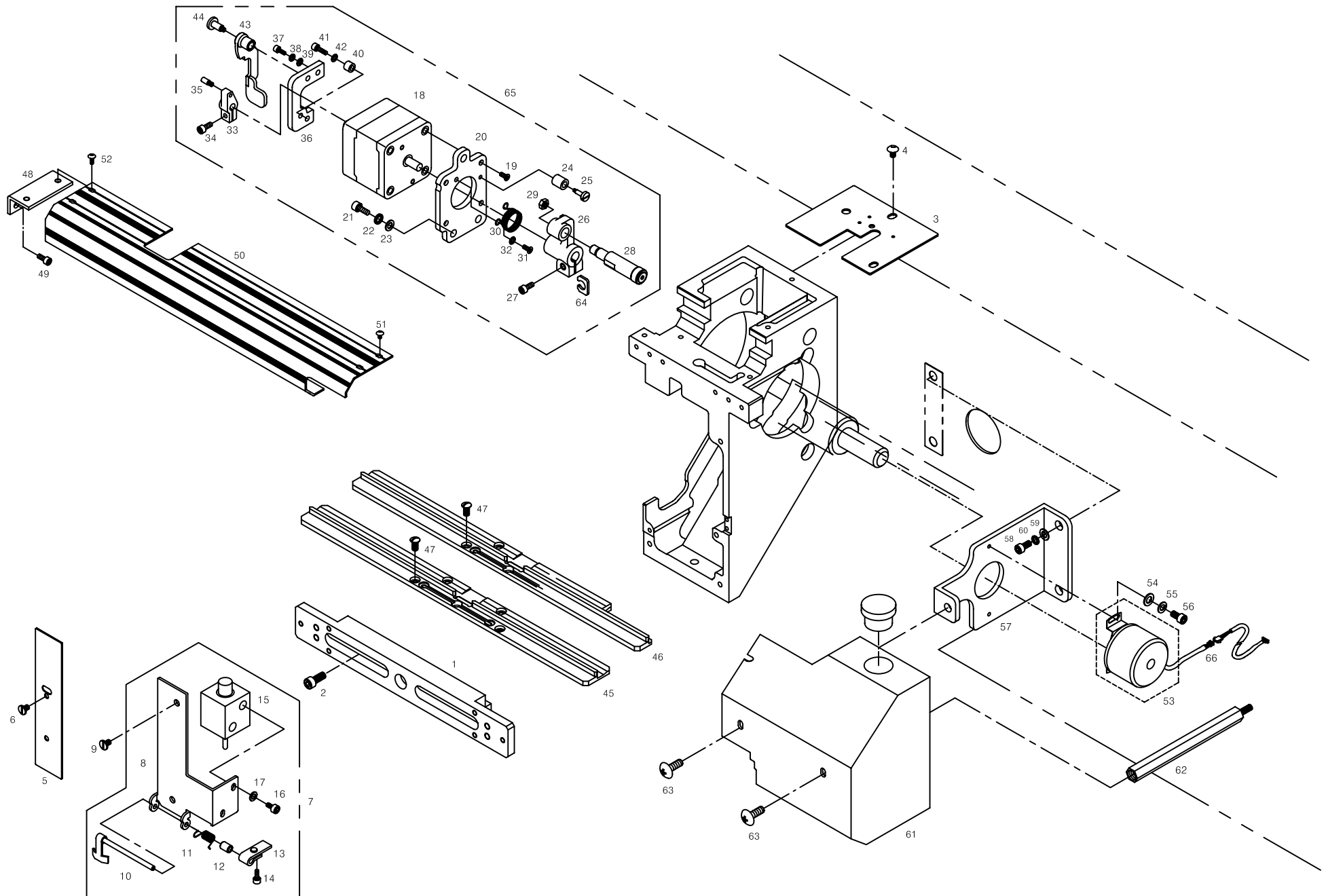
H

Arm I

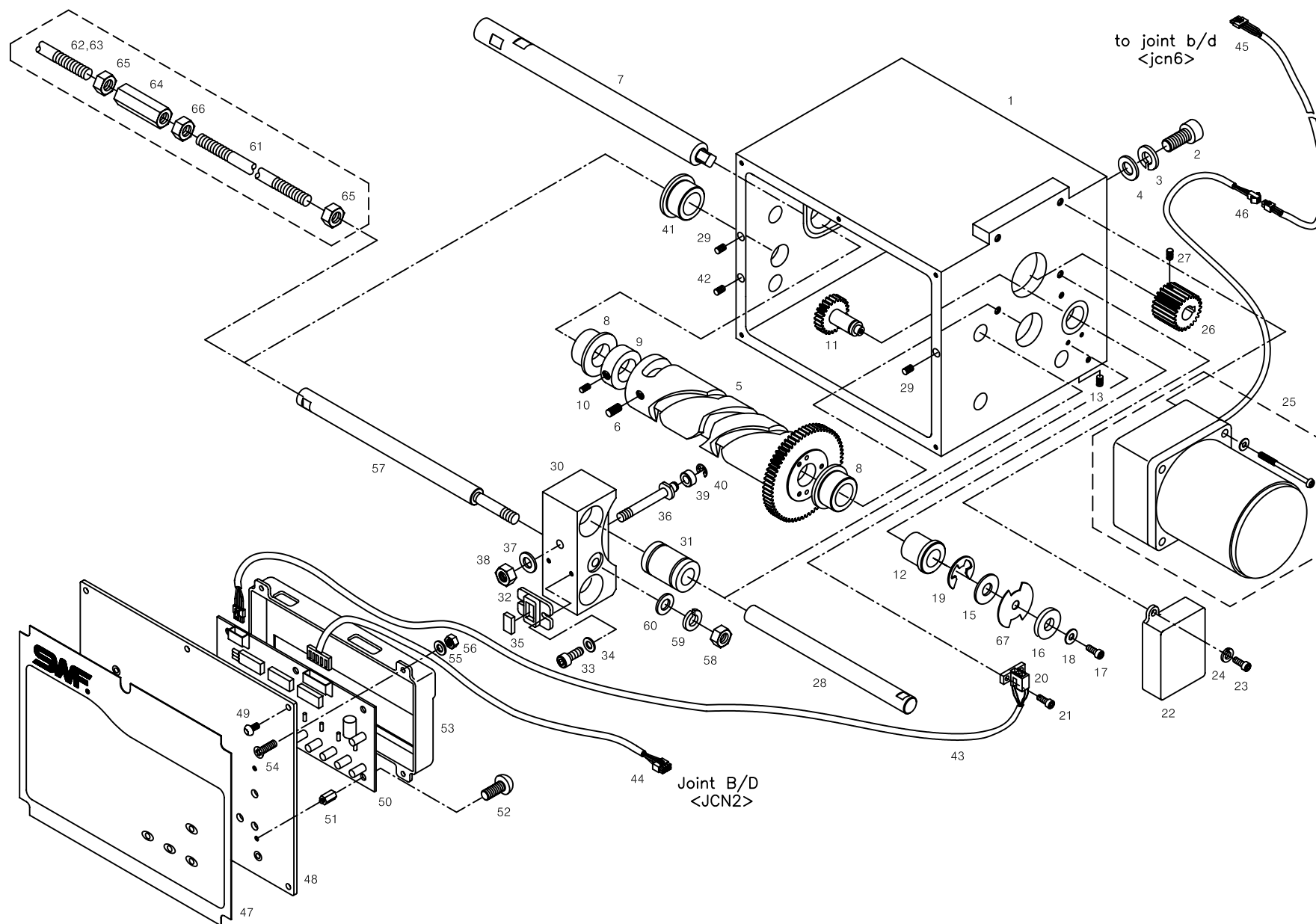


H1

Arm II



Color Change Set



Ref.No	Part No.	Part Names	Q'ty
I-001	GP-005256-01	Color Change Box 15C (UH1515)	1
	GP-005255-01	Color Change Box (UI1212)	
I-002	03003SC-4113	Hex. Socket Bolt "B"(M8*L35)	4
I-003	15095SW-3115	Spring Washer (@8)	4
I-004	04029SW-A001	Stud Bolt Washer(S) (@8)	4
I-005	08110005B000	Color Change Cam Ass'Y (UH1515)	1
	13006BM-AB00	Color Change Cam Ass'y (UI1212)	
I-006	08037SC-4517	Hex. Socket Set Screw (M6*L10)	2
I-007	08100305B000	Cam Shaft (UH1515)	1
	13009SF-AB00	Cam Shaft (UI1212)	
I-008	08101100B000	Cam Bushing	2
I-009	13012CW-A001	Cam Collar	1
I-010	04016AF-A001	Cam Collar Screw	2
I-011	13014GA-A001	Half Turn Gear	1
I-012	08101500B000	Half Turn Bushing	1
I-013	03020SC-A001	Drive Pin Screw 11/64,N40,L8	1
I-015	13018PR-A001	Half Turn Film Washer (T2.3)	1
I-016	13019PR-A001	Half Turn Film Washer (T1.0)	1
I-017	13020SC-A001	Hex.Socket Bolt(M3*L7)	1
I-018	06011SW-2111	Washer (@3)	1
I-019	08044SR-4013	E-Ring (@8)	1
I-020	08102300B000	Half Turn Sensor (Gp1S51V)	1
I-021	03071SC-A001	Hex.Scoket Bolt (M3*L15)	2
I-022	13025PM-A001	Sensor Cover	1
I-023	02015SC-7113	Hex.Socket Bolt(M4*L10)	2
I-024	08200601F000	Take-Up Lever Shaft 3C	2
I-025	13028MT-A001	Color Change Motor Unit	1
I-026	13029GA-A001	Motor Gear	1
I-027	13030SC-4517	Hex. Socket Set Screw (M4*L8)	1
I-028	08100405B000	Guide Shaft (UH1515)	2
	13031SH-AB00	Guide Shaft (UI1212)	1
I-029	03020SC-A001	Drive Pin Screw 11/64,N40,L8	2
I-030	13034AD-A001	Color Change Block	1
I-031	13035BR-A001	Guide Bushing	2
I-032	13036PR-A001	Magnet Holder	1
I-033	22006SC-7113	Hex. Socket Bolt (M3*L8)	1
I-034	06011SW-2111	Washer (@3)	1
I-035	10-027C-SC53	Magnet	1
I-036	13040CW-A001	Roller Shaft	1
I-037	08200301F000	Presser Foot (Afc)	1

Ref. No	Part No.	Part Names	Q'ty
I-038	13042SN-1111	Hex.Nut (M6*T5-R)	1
I-039	13043CW-A001	Roller	1
I-040	13044SR-4013	E-Ring (@4)	1
I-041	08101500B000	Half Turn Bushing	1
I-042	03020SC-A001	Drive Pin Screw 11/64,N40,L8	1
I-043	25073EL-A001	Half Turn Sensor Cable (25-73)	1
I-044	25015EL-A001	Color Change-Joint B/D (25-15)	1
I-045	25015EL-A001	Color Change-Joint B/D (25-15)	1
I-046	25101ET-B001	Color Change Connector	1
I-047	GP-009715-00	Membrance Switch (UH1515)	1
	GP-009716-00	Membrance Switch (UI1212)	
I-048	09100105B000	Membrane Switch Cover (UH1515)	1
	13052PR-AB00	Membrance Switch Cover (UI1212)	
I-049	13054SC-3123	Plus Screw (M3*L8)	5
I-050	15-001A-UIC0	Color Change Board Pcb (UH1515)	1
	04-001A-SW60	Color Change Board PCB (UI1212)	
I-051	13057SC-A001	Stud Bolt	6
I-052	06010SC-8118	Plus Screw (M3*L4)	6
I-053	09100205B000	Board Cover (UH1515)	1
	13059ET-AB00	Board Cover (UI1212)	
I-054	13061SC-8119	Plus Screw (M3*L10)	4
I-055	11019SW-9115	Spring Washer (3@)	4
I-056	05057SN-3211	Hex. Nut (M3-No2)	4
I-057	08000205B000	COLOR CHANGE SHAFT "A"(L286.2) (UH1515)	1
	17054SH-AB00	COLOR CHANGE SHAFT "A" (L233.7) (UI1212)	
I-058	13042SN-1111	Hex.Nut (M6*T5-R)	2
I-059	03026SW-9115	Spring Washer (@6)	1
I-060	03025SW-1211	Washer (@6)	1
I-061	17032SH-AC01	COLOR CHANGE SHAFT "B" (L1967) (UH1515)	1
	14068SH-UI12	COLOR CHANGE SHAFT "C" (L1299) (UI1212)	
I-062	17040SH-A001	MES DRIVING SHAFT "B"(L2000) (UH1515)	1
	08000600UIC0	COLOR CHANGE SHAFT "D"(L2064) (UI1212)	
I-063	17068SH-A004	COLOR CHANGE SHAFT "D"(L1915) (UH1515)	1
	08000500UIC0	COLOR CHANGE SHAFT "B"(L1632) (UI1212)	
I-064	17051SN-A001	Mes Priving Shaft Joint	2
I-065	13042SN-1111	Hex.Nut (M6*T5-R)	3
I-066	17053SN-1111	Hex. Nut(L) (M6*T5-L)	2
I-067	08101700B000	HALF TURN FLIM	1

Upper Thread Catcher Set

This exploded view diagram illustrates the assembly of a mechanical system, likely a door opener or similar device. The components are numbered 1 through 89. The assembly is organized into several main sections:

- Motor Unit (Top Left):** Includes a motor housing (25), a mounting bracket (26), and a drive shaft (27) with a pin (28).
- Main Frame Assembly (Center):** The central component, featuring a main frame (1) with various internal mechanisms, including a lever arm (2), a spring (3), and a mounting bracket (4). It also includes a control panel (13) with a switch (14) and a pin (15).
- Control Panel (Top Right):** A rectangular panel (16) with a series of pins (17) and a label "SMF".
- Base Unit (Bottom Right):** A large, rectangular base (79) with a mounting bracket (78) and a pin (77). It also includes a control panel (70) with a switch (71) and a pin (72).

The diagram uses dashed lines to indicate the assembly path and the relative positions of the components. The components are numbered as follows:

- 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89.

From the library of: Superior Sewing Machine & Supply LLC

Ref.No	Part No.	PartNames	Q'ty
J-001	03500110H000	Upper Thread Catcher Base	15
J-002	03500210H000	Upper Thread Hook Base Cover	15
J-003	03500310H000	Upper Thread Hook	15
J-004	09005SC-3123	Truss Screw (M3*L6)	90
J-005	03500400H000	Upper Catcher Connect Pin	15
J-007	11019SW-9115	Spring Washer (3@)	15
J-008	03500500H000	Upper Catcher Driving Lever	15
J-009	03500600H000	Driving Lever Pin	15
J-010	03500700H000	Driving Lever Pin Collar	15
J-011	04014SC-4517	Hex.Socket Set Screw(M5*L5)	30
J-012	03500800H000	Driving Lever Pin Washer	30
J-013	03500900H000	Clutch Block	15
J-014	03501000H000	Clutch Stud Screw	15
J-015	03501100H000	Clutch Spring	15
J-016	03501200H000	Clutch Dial	15
J-017	11029SC-4113	Hex. Socket Bolt (M4*L20)	30
J-020	03002700H000	Return Spring	15
J-021	03002800H000	Return Spring Stopper Washer	15
J-022	03002900H000	Return Spring Fix Pin Washer	15
J-023	03003000H000	Return Spring Fix Pin	15
J-024	02015SC-7113	Hex.Socket Bolt(M4*L10)	15
J-025	03003100H000	Upper Thread Hook Motor Unit	1
J-026	03003100H000	Upper Thread Hook Motor Unit	1
J-029	03003210H000	Motor Base	1
J-030	06025MC-7113	Hex.Socket Bolt(M6*L25)	4
J-031	16014SW-4115	Spring Washer (@6)	4
J-032	08057SW-1111	Washer (@6)	4
J-033	03003300H000	Cam Shaft Fixing Block	1
J-034	05008MC-4517	Hex.Socket Bolt(M5*L8)	2
J-035	GP-005184-01	SENSOR SENSING ADJUSTING RING	1
J-036	04014SC-4517	Hex.Socket Set Screw(M5*L5)	2
J-037	03003500H000	Motor Driving Cam Shaft	1
J-038	04014SC-4517	Hex.Socket Set Screw(M5*L5)	1
J-039	GP-005180-00	UPPER THREAD HOOK SENSOR BASE	1
J-040	07035SC-7113	Bracket Screw (M3*L6)	2
J-041	15-027A-2070	SENSOR	1
J-045	03003800H000	Stud Bolt For Driving Plate	1
J-046	03003910H000	Upper Thread Driving Plate	1
J-047	03004000H000	Stud Bolt Washer	1
J-048	13042SN-1111	Hex.Nut (M6*T5-R)	1

Ref. No	Part No.	Part Names	Q'ty
J-049	16014SW-4115	Spring Washer (@6)	1
J-050	03004200HH00	Motor Driving Connect Plate	1
J-051	03004400H000	Motor Driving Connect Bearing	2
J-052	03008300H000	Connecting Plate Stud Screw A	1
J-053	03004500H000	Connecting Plate Pin Washer	1
J-054	03004700H000	Connecting Plate Stud Screw	1
J-055	13042SN-1111	Hex.Nut (M6*T5-R)	1
J-056	03004800H000	Connecting Plate Knuckle	1
J-057	04032SN-A001	Hex. Nut (M8-No2)	1
J-058	02023SC-7113	Hex.Socket Bolt (M4*L8)	30
J-059	18015SW-3111	Washer (4@)	30
J-060	18014SW-3115	Spring Washer (@4-No2)	30
J-061	09052PR-T151	Upper Thread Presser Base	15
	09052PR-T151	Upper Thread Presser Base	
J-062	09027ET-T151	Velcro (15,C)	30
	09027ET-AB00	Velcro (12C)	2/H
J-063	09029PR-T151	Presser Base Cover 15 (15C)	15
	09029PR-AB00	Presser Base Cover (12C)	1/H
J-064	07018SC-8118	Plus Screw (M3*L8)	30
J-065	09038CW-A001	Thread Presser Space	30
J-066	09040PR-A001	Bracket (L)	15
J-067	09041PR-A001	Bracket (R)	15
J-068	06010SC-8118	Plus Screw (M3*L4)	60
J-069	02009SC-A001	Side Cover Screw	60
J-070	09044PR-A001	Upper Thread Holder Disk Set	30
J-073	02010AF-3123	Truss Screw (M4*L8)	2
J-074	03007000HEK0	Upper Thread Driving Shaft A	1
J-075	03007100HEK0	Upper Thread Driving Shaft B	1
J-076	03007200HEI0	Upper Thread Driving Shaft C	1
J-077	03007300H000	Upper Thread Shaft Coupling	2
J-078	08113SC-A001	Collar Screw	8
J-079	12001910H000	Upper Thread Hook Motor Cover	1
J-080	03008600H000	Motor Cover Fixing Bracket	2
J-081	02023SC-7113	Hex.Socket Bolt (M4*L8)	2
J-082	18014SW-3115	Spring Washer (@4-No2)	2
J-083	18015SW-3111	Washer (4@)	2
J-084	03002610H000	Return Spring Stopper	30
J-085	05008SC-4113	Hex.Socket Bolt (M4*L16)	30
J-086	13061SC-8119	Plus Screw (M3*L10)	1
J-087	11014SN-1211	Hex.Nut (M3-No2)	15

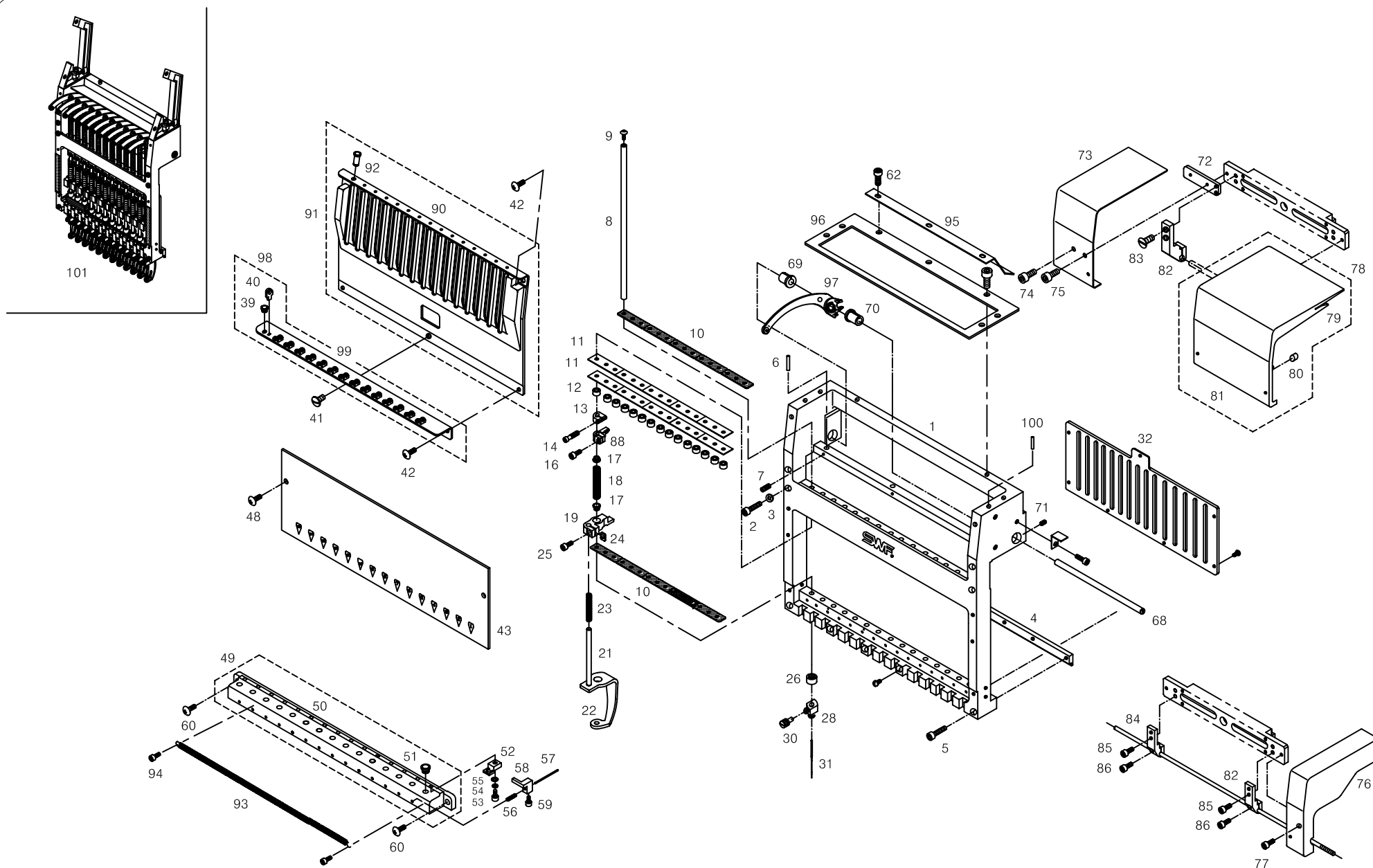
Upper Thread Catcher Set

This is a detailed exploded view diagram of a mechanical assembly, likely a door closer or a similar device. The diagram shows various components separated from their final assembly position, with dashed lines indicating the correct alignment and assembly sequence. The parts are numbered from 1 to 89. Key components include a motor unit (top left), a main housing (bottom center), a mounting bracket (top right), and a door edge (bottom right). The assembly involves numerous screws, bolts, washers, and specialized mechanical parts like a piston rod, a piston, and a door edge. The diagram is a technical drawing in black and white, typical of engineering manuals.

From the library of: Superior Sewing Machine & Supply LLC

K

Head

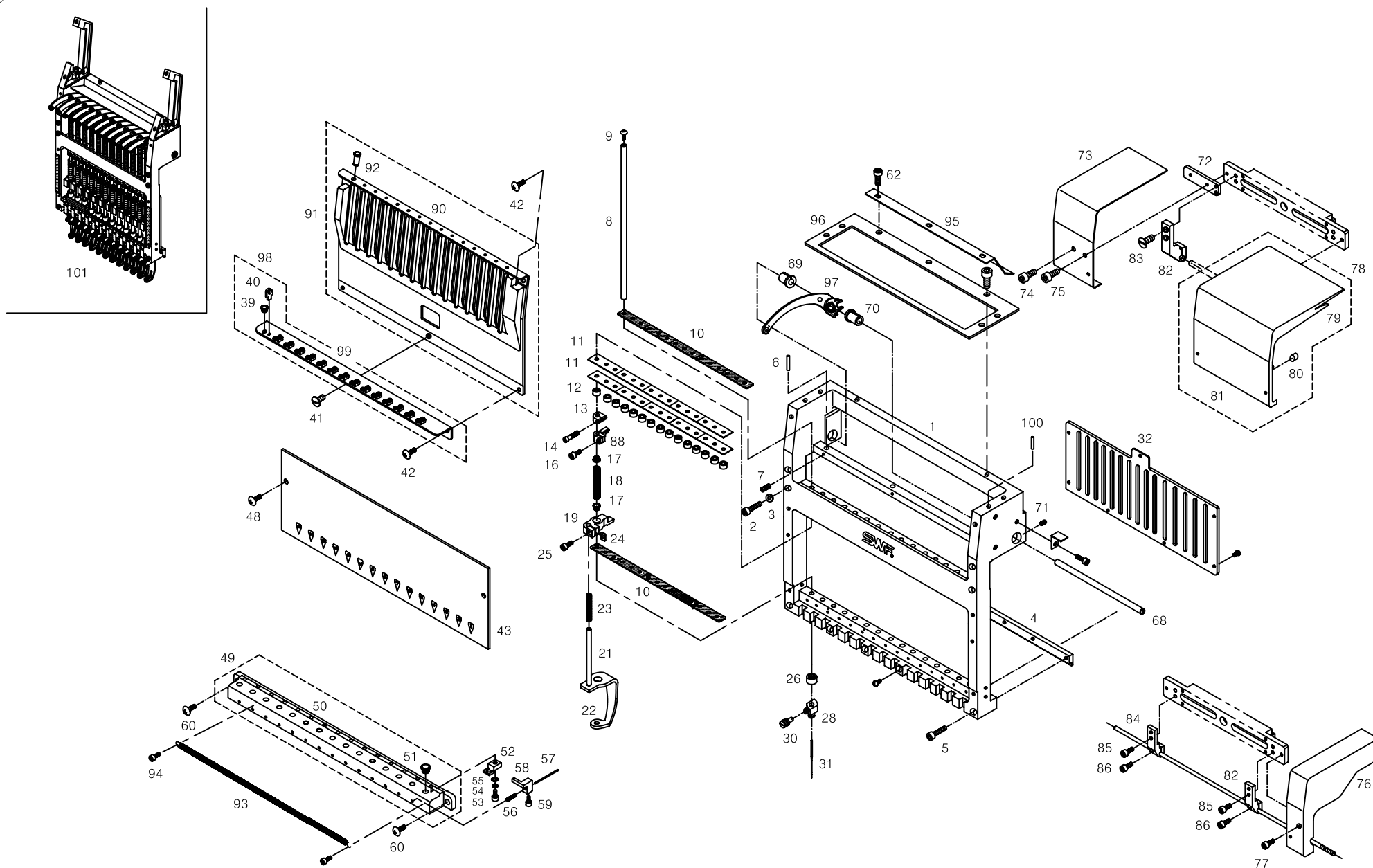


Ref.No	Part No.	PartNames	Q'ty
K-001	08200105U000	Head 15C (Tubular)	15
	08200114H000	Head UI1212	12
K-002	05008SC-4113	Hex.Socket Bolt (M4*L16)	60
K-003	06003SW-2111	Washer (@4)	60
K-004	08201305H000	Head Rail 15C	15
	08201304H000	Head Rail UI1212	12
K-005	05014SC-7113	Hex. Socket Bolt (M4*L25)	60
K-006	05015CW-A001	Head Base Pin(@5*L15)	30
K-007	03022SC-4517	Hex. Socket Set Screw(M4*L5)	30
K-008	05018CW-A001	Needle Bar	225
K-009	05019SC-A001	Needle Bar Cover Screw (M5*L6)	225
K-010	08200700H000	Needle Bar Felt	225
K-011	05023RB-A001	Needle Bar Cushion Rubber "A"	225
K-012	05024RB-A001	Needle Bar Cushion Rubber "B"	225
K-013	11101200T000	Upper Dead Point Stopper	225
K-014	05026SC-4113	Stopper Screw (9/64-11.5)	225
K-016	05028SC-4113	Holder Screw (9/64-L8)	225
K-017	05021PM-H001	Presser Foot Spring Guide	450
K-018	08200800H000	Needle Bar Return Spring	225
K-019	08200900H000	Presser Foot Holder (Set) Hb	225
K-020	08200510H000	Presser Foot (Hight Speed)	225
K-023	08201000H000	Presser Foot Return Spring	225
K-024	08201100H000	Presser Foot Spacer	225
K-025	05026SC-H001	Presser Foot Holder Screw	225
K-026	08201200H000	Presser Foot Cushion Rubber A	225
K-028	05036CW-A001	Needle Fixed Holder	225
K-030	05363SC-A001	Needle Fixed Screw (A/S)	225
K-031	05037DB-A001	Needle (Db-K5, #11)	225
K-032	05038PM-H003	Needle Bar Guide Rail (15C)	15
	05038PM-AB00	Heedle Bar Guide Rail UI1212	12
K-039	05452CM-A001	Eyelet "A"	225
K-040	05483CM-A001	Eyelet "B"	225
K-041	05062SC-A001	Thread Guide (L) Screw	15
K-042	05070SC-3123	Head Face Plate (U) Screw	60
K-043	12001705H000	Head Face Plate (L) (15C)	15
K-048	05070SC-3123	Head Face Plate (U) Screw	30
	12001704H000	Head Face Plate (L) UI1212	1/H
K-049	10900015H000	Upper Thread Holder Apron Set	15
	10900014H000	Upper Thread Holder Apron : Set UI1212	12
K-050	10900105H000	Upper Thread Holder Apron 15C	15
	10900104H000	Upper Thread Holder Apron UI1212	12

Ref. No	Part No.	Part Names	Q'ty
K-051	05452CM-A001	Eyelet "A"	225
K-052	10900200H000	Upper Thread Holder Block	225
K-053	03010MC-4135	Holder Block Screw	225
K-054	11019SW-9115	Spring Washer (3@)	225
K-055	06011SW-2111	Washer (@3)	225
K-056	10900300H000	Upper Thread Holder Spring	225
K-057	10900400H000	Upper Thread Holder Pin	225
K-058	10900500H000	Upper Thread Holder Clamp	225
K-059	03006MC-4535	Thread Holder Clamp Screw	225
K-060	05070SC-3123	Head Face Plate (U) Screw	225
K-062	02023SC-7113	Hex. Socket Bolt (M4*L8)	30
K-068	07004SF-T151	Take-Up Lever Shaft 15C	15
	08200404A000	Take-Up Leaver Shaft UI1212	12
K-069	08203000A000	Take-Up Lever Shaft Bush(L)	15
K-070	08200800A000	Take-Up Lever Shaft Bush(R)	15
K-071	07009SC-4517	Hex.Socket Set Screw (M5*L6)	30
K-072	02011PR-A001	Top Shaft Cover (L) Bracket	1
K-073	AS-001503-00	TOP SHAFT COVER(L)SET	1
K-074	02014SC-7113	Hex. Socket Bolt (M4*L5)	1
K-075	02015SC-7113	Hex.Socket Bolt(M4*L10)	1
K-076	AS-001504-00	TOP SHAFT COVER(R)SET	1
K-077	02014SC-7113	Hex. Socket Bolt (M4*L5)	14
K-078	02019PM-AF01	Top Shaft Cover "A" (L191)	8
K-080	02023ET-A001	Top Shaft Cover Magnet	29
K-081	02023ET-A001	Top Shaft Cover Magnet	29
K-082	08004700A000	Color Change Bracket "A"	1
K-083	13048SC-A001	Bracket "A" Screw	2
K-084	08004900A000	Color Change Bracket "B"	29
K-085	02031SC-7113	Hex. Socket Screw(M5*L10)	58
K-086	02015SC-7113	Hex.Socket Bolt(M4*L10)	30
K-088	08201400H000	Needle Bar Holder	225
K-089	10200105B000	Head Face Plate (U) 15C	15
K-090	10200104B000	Head Face Plate (U) UI1212	12
K-091	10200015H000	Thread Guide (U) Set 15C	15
	10200014H000	Thread Guide (U) Set UI1212	12
K-092	10200100H000	Eyelet "A-1"	225
K-093	10800505H000	THREAD GUIDE SPRING 15C	15
K-094	03004MC-7113	HEX. SOCKET BOLT (M3*L4)	30
K-095	11046PR-H003	CABLE SUPPORT PLATE 15C	15
K-096	08000135H000	OIL PROTECTING COVER (UH1515)	15
	08000134H000	OIL PROTECTING COVER (UI1212)	12

K

Head



Thread Tension Unit

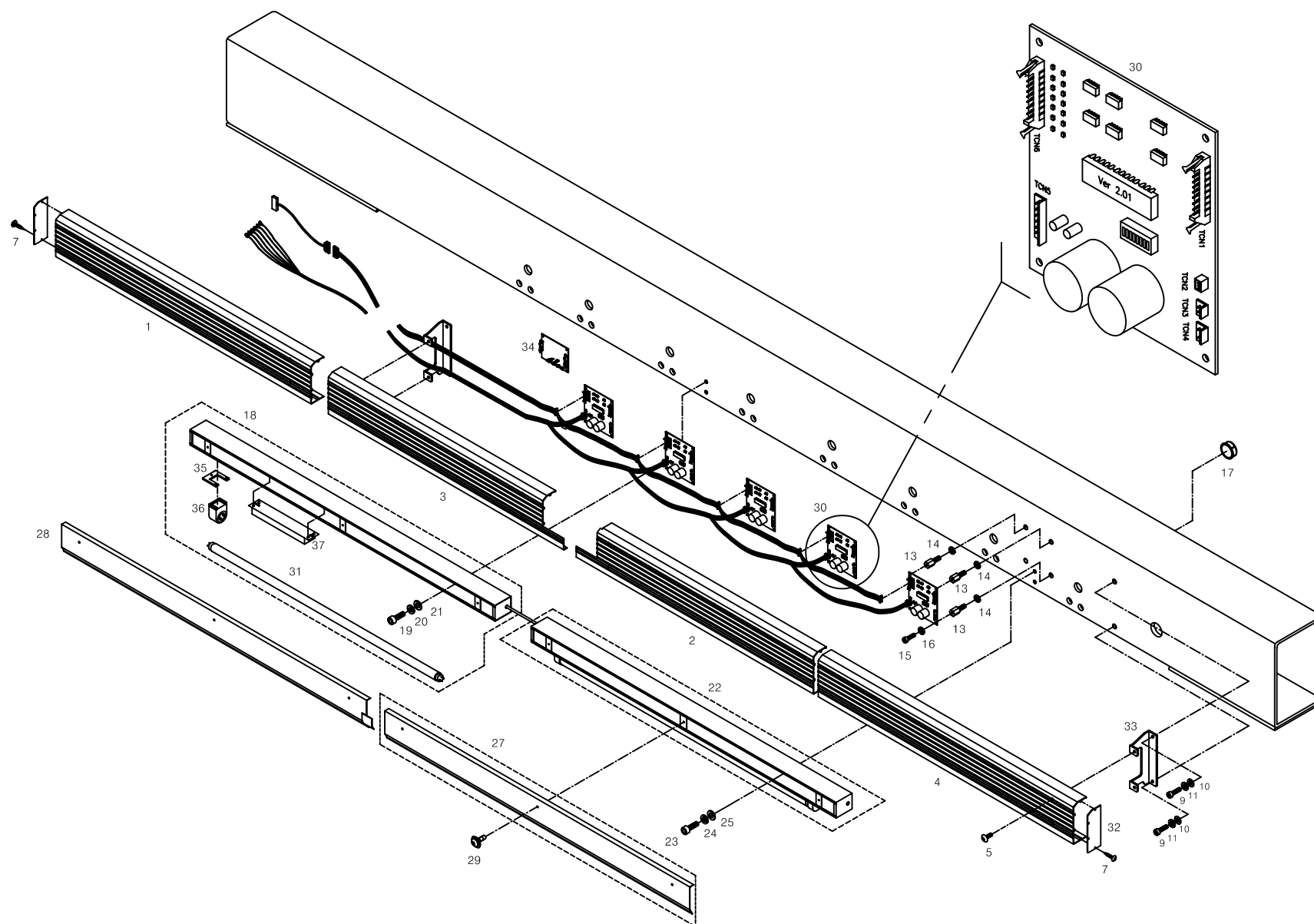


[illegible]

M

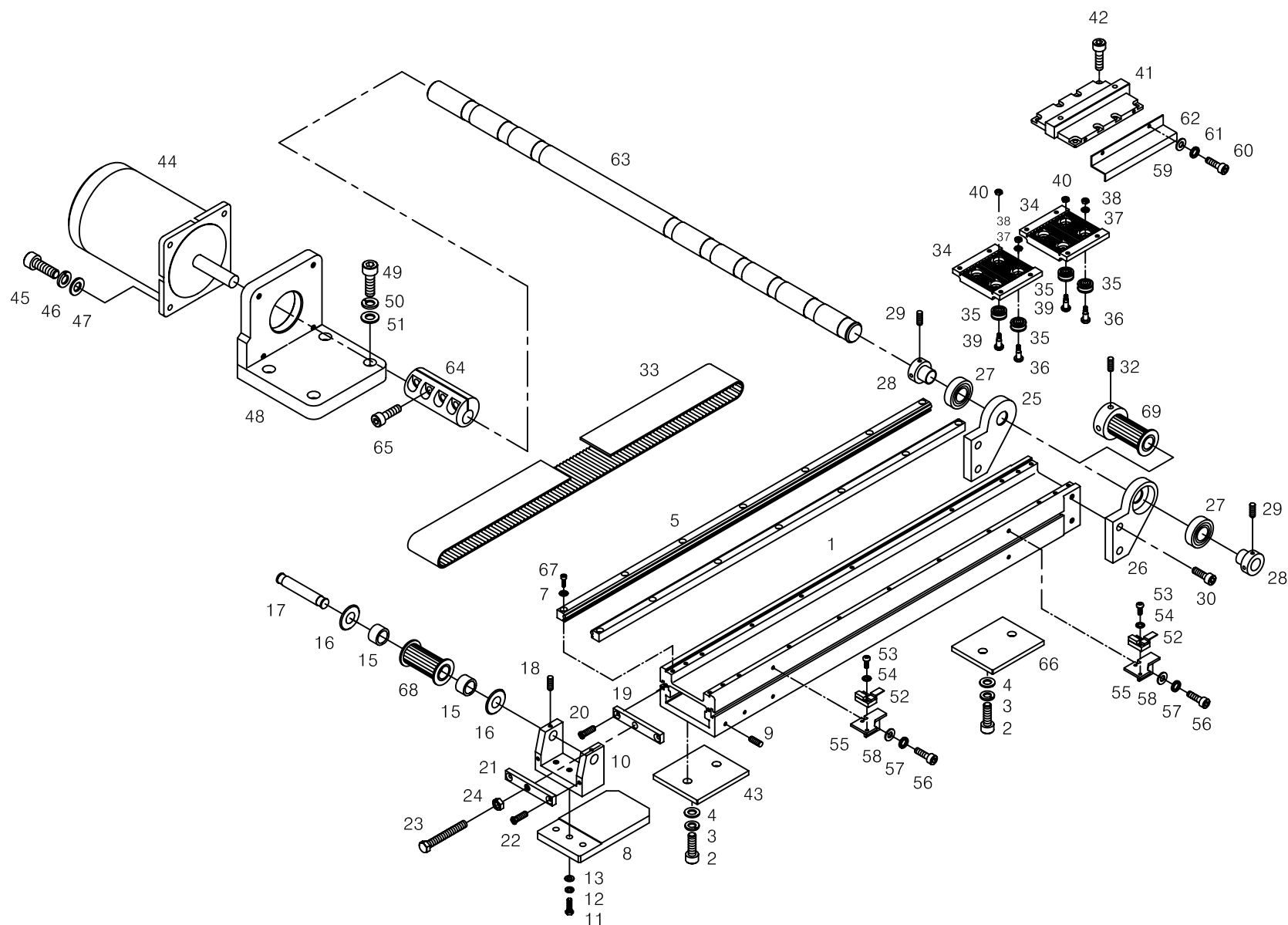
Sub-Control

SMF®



N

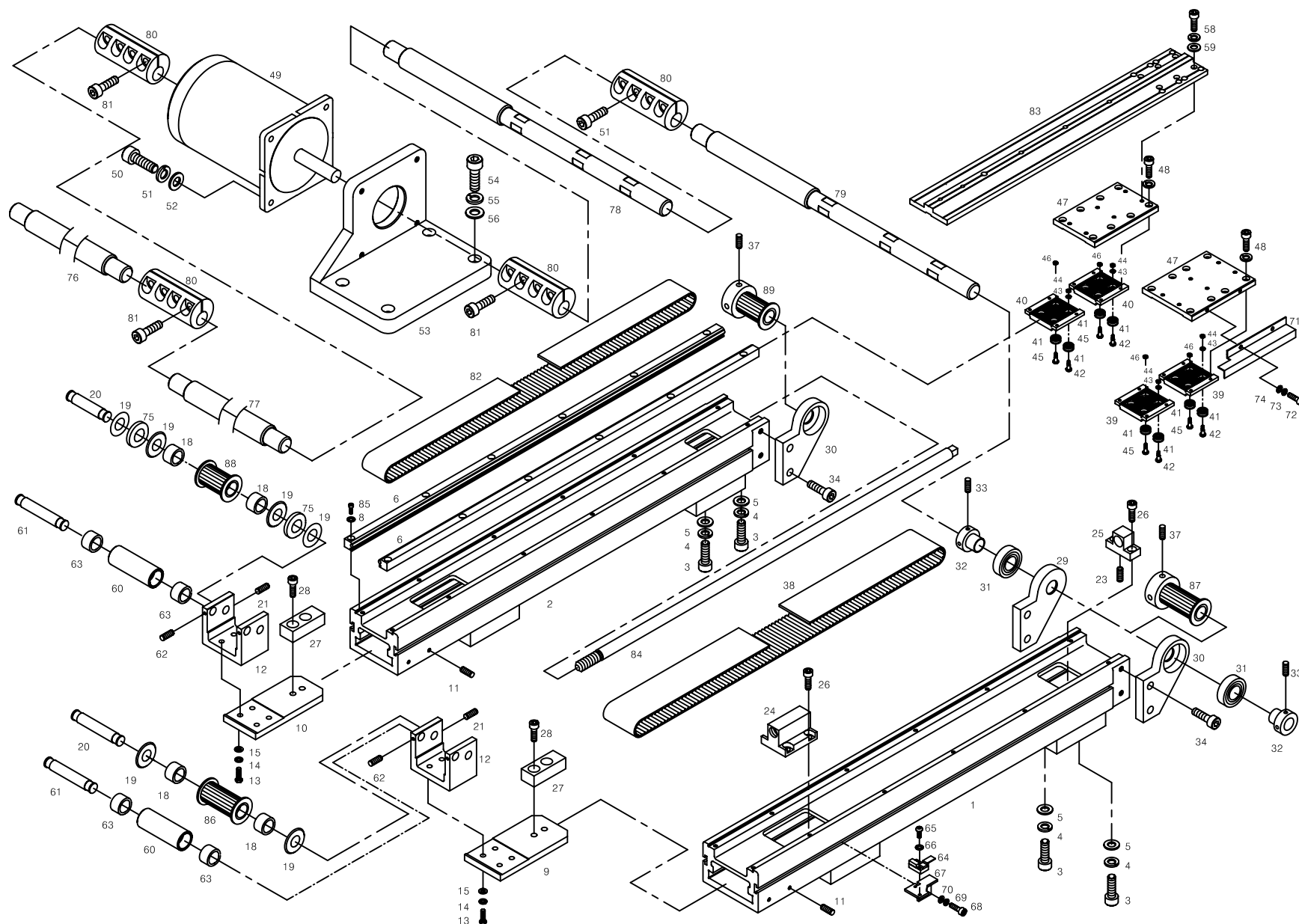
X-Axis Drive System



O

Y-Axis Drive System I

SMF®



From the library of: Superior Sewing Machine & Supply LLC

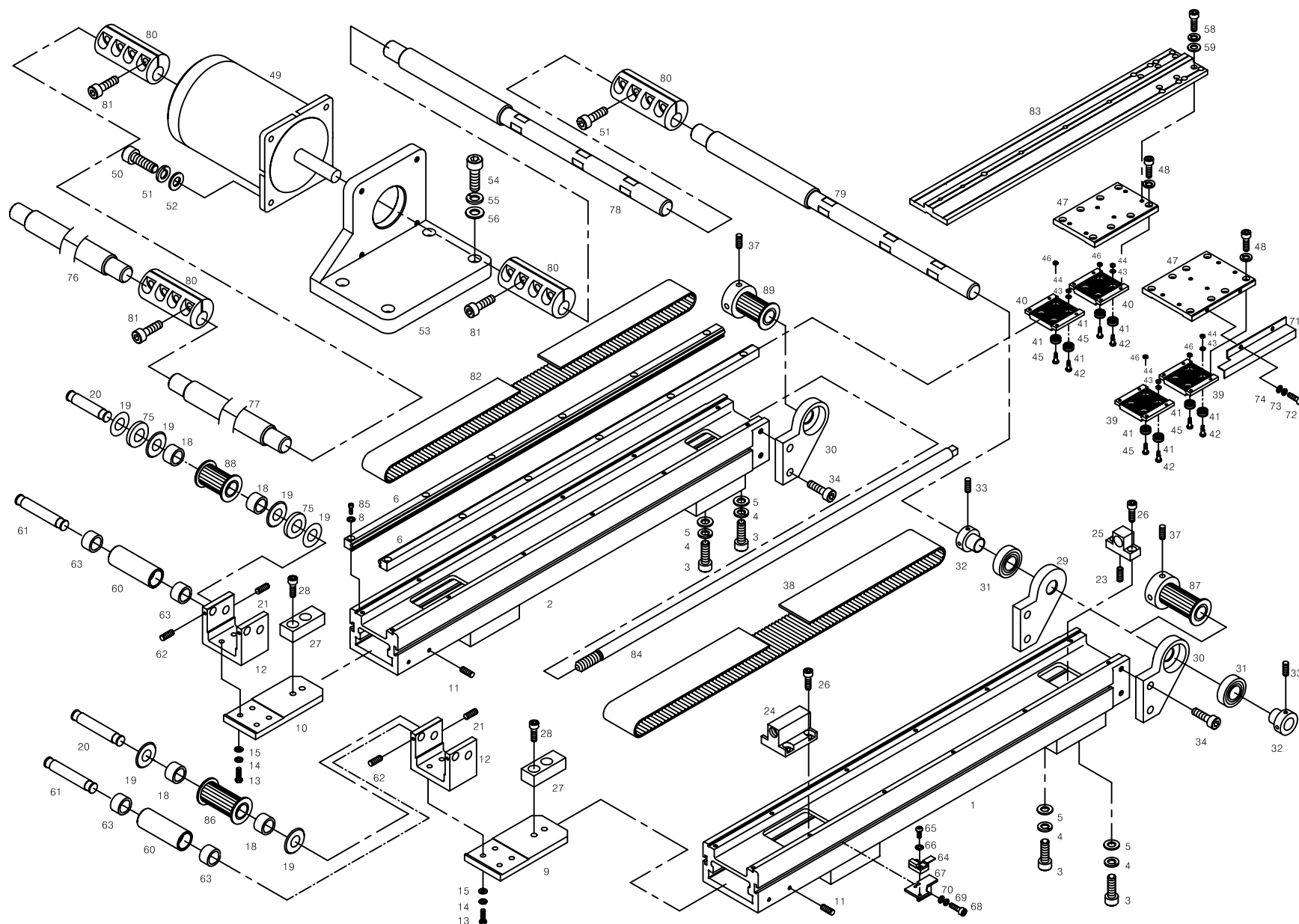
Ref.No	Part No.	Part Names	Q'ty
O-001	GP-008731-01	Y Cam Roller Guide Bracket A	2
O-002	GP-008732-01	Y Cam Roller Guide Bracket B	2
O-003	15019SC-4113	Hex. Socket Bolt (M8*L40)	16
O-004	15095SW-3115	Spring Washer (@8)	16
O-005	04029SW-A001	Stud Bolt Washer(S) (@8)	16
O-006	GP-008733-01	Y Cam Roller Guide Rail L=575	8
O-008	18014SW-3115	Spring Washer (@4-No2)	56
O-009	04200300TH00	Timing Pulley Tension Base Double breadth)	2
O-010	04300300TH00	Timing Pulley Tension Base (Single breadth)	2
O-011	14060AF-4517	Hex.Socket Screw(M6*L6)	16
O-012	04200400TH00	Pulley Bracket (C) Y	4
O-013	15028SC-1111	Hex. Bolt (M6*L20)	16
O-014	03026SW-9115	Spring Washer (@6)	16
O-015	08057SW-1111	Washer (@6)	16
O-018	15042BR-A001	Needle Bearing (1210Zz)	8
O-019	15046RB-A001	Driving Pin Washer (Tw1225)	12
O-020	04104400B000	Timing Pulley Driving Pin	4
O-021	03022SC-4517	Hex. Socket Set Screw(M4*L5)	16
O-023	14061AF-4517	Hex.Socket Screw(M8*L8)	4
O-024	04202400B000	Y Adjusting Shaft Guide (A)	4
O-025	04200500B000	Y Adjusting Shaft Guide (B)	4
O-026	16059SC-7113	Hex.Socket Bolt (M6*L12)	24
O-027	15006CL-B001	Adjusting Shaft Stopper	4
O-028	14006SC-7113	Hex.Socket Set Screw(M8*L15)	8
O-029	04103100B000	Timing Pulley Bracket (L)	4
O-030	04103200B000	Timing Pulley Bracket (R)	4
O-031	14065BR-A001	Needle Bearing (Nk18/16A)	8
O-032	04003500B000	Needle Bearing Collar	8
O-033	04014SC-4517	Hex.Socket Set Screw(M5*L5)	16
O-034	14002SC-7113	Hex.Socket Bolt (M6*L15)	16
O-037	14060AF-4517	Hex.Socket Screw(M6*L6)	8
O-038	04000300UHF1	Y-Drive Timing Belt (W:48)	2
O-039	16103CL-H001	Belt Catcher Plate (X,Y)	4
O-040	16104CL-H001	Belt Catcher Plate (Y)	4
O-041	15001BR-B001	Cam Roller Baearing	32
O-042	15002CW-B001	Cam Roller Stud (A)	16
O-043	18014SW-3115	Spring Washer (@4-No2)	16
O-044	15029SN-3211	Hex. Nut (M4-No2)	16
O-045	15003CW-B001	Cam Roller Stud (B)	16
O-046	12010SN-1211	Hex.Nut (M5)	16

Ref. No	Part No.	Part Names	Q'ty
O-047	04000500TH00	Y - Moving Plate	4
O-048	02023SC-7113	Hex.Socket Bolt (M4*L8)	32
O-049	15047MT-UI12	Y Motor (103H89223-5214)	1
O-050	14046SC-7113	Hex.Socket Bolt (M6*L30)	4
O-051	03026SW-9115	Spring Washer (@6)	4
O-052	08057SW-1111	Washer (@6)	4
O-053	16087CA-UI12	Y-Axis Motor Bracket	1
O-054	14027SC-4113	Hex.Socket Bolt (M8*L30)	4
O-055	15095SW-3115	Spring Washer (@8)	4
O-056	04029SW-A001	Stud Bolt Washer(S) (@8)	4
O-058	02023SC-7113	Hex.Socket Bolt (M4*L8)	24
O-059	18014SW-3115	Spring Washer (@4-No2)	24
O-060	04001700TH00	Roller For X-Frame Support	4
O-061	04104400B000	Timing Pulley Driving Pin	4
O-062	03022SC-4517	Hex. Socket Set Screw(M4*L5)	8
O-063	04002000TH00	Bearing Hk1220	8
O-064	15046EL-CT01	Xy-Sensor Assy	1
O-065	15120SC-A001	Position Adjusting Screw	1
O-066	18014SW-3115	Spring Washer (@4-No2)	1
O-067	04002100TH00	Sensor Bracket (X,Y) Th1215	1
O-068	15120SC-A001	Position Adjusting Screw	2
O-069	06011SW-2111	Washer (@3)	2
O-070	15121PR-A001	Square Washer	2
O-071	04002300TH00	Sensor Pereception Plate (Y)	1
O-072	22006SC-7113	Hex. Socket Bolt (M3*L8)	2
O-073	11019SW-9115	Spring Washer (3@)	2
O-074	06011SW-2111	Washer (@3)	2
O-075	04002400TH00	Pulley Washer Th1215	4
O-076	04002600THF0	Y-Driving Shaft (A) L1966	1
O-077	04002700THF0	Y-Driving Shaft (B) L948	1
O-078	04002700THF0	Y-Driving Shaft (B) L948	1
O-079	04002900THF0	Y-Driving Shaft (D) L1566	1
O-080	03003800B000	Coupling	4
O-081	08091SC-7113	Hex. Socket Bolt (M6*L20)	2
O-082	04000500UHF1	Y-Drive Timing Belt (W:35)	2
O-083	GP-008735-01	FRAME CONNECTING PLATE	4
O-084	15033CW-B051	BELT TENSION ADJUSTING SHAFT	2
O-085	04016MC-4113	CAM ROLLER GUIDE FIXED SCREW	56
O-086	04002600H000	TIMING PULLEY(16-S5M-32F)	2
O-087	04002700H000	TIMING PULLEY(16-S5M-32F)	2

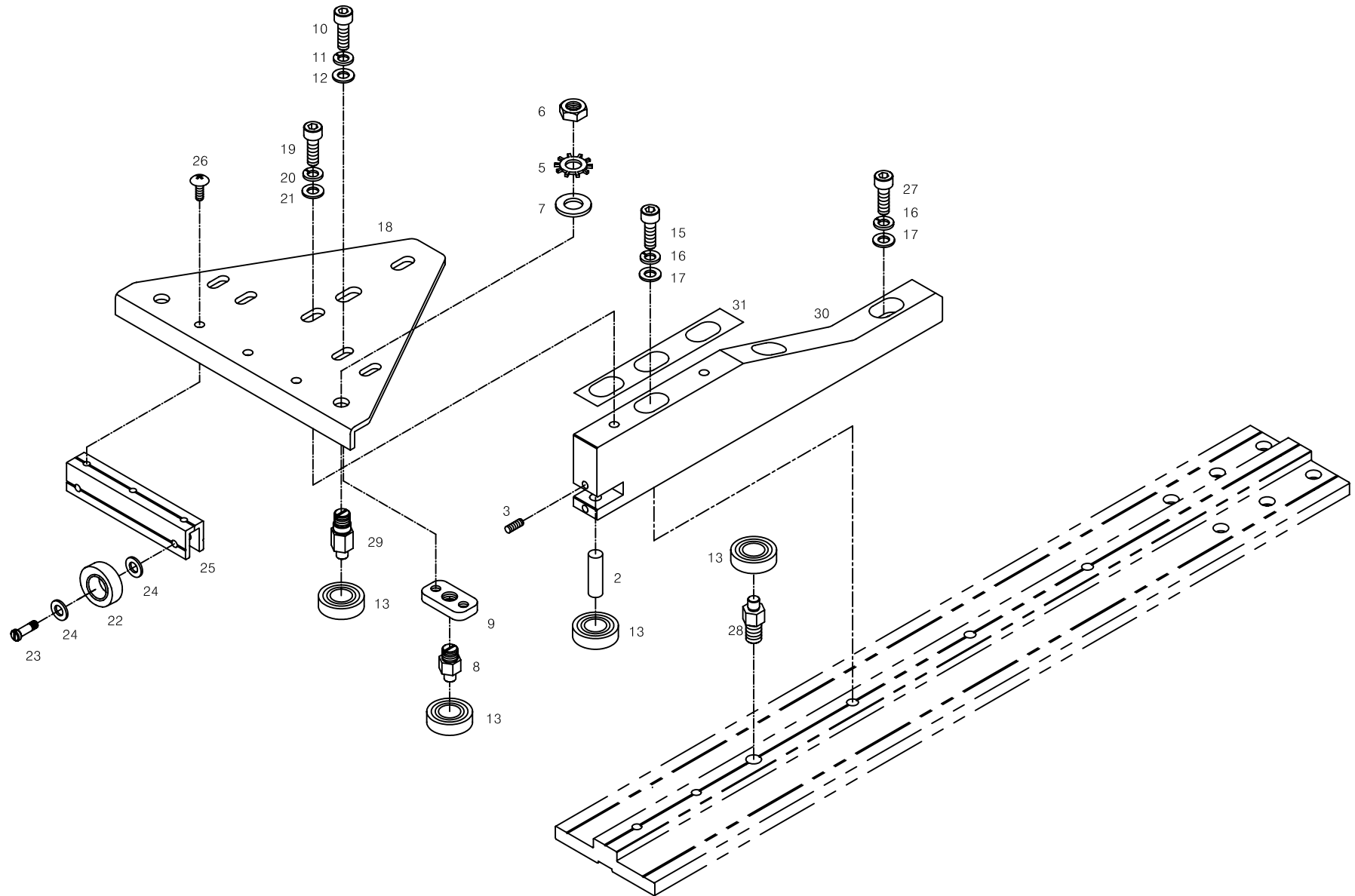
O

Y-Axis Drive System I

SMF®

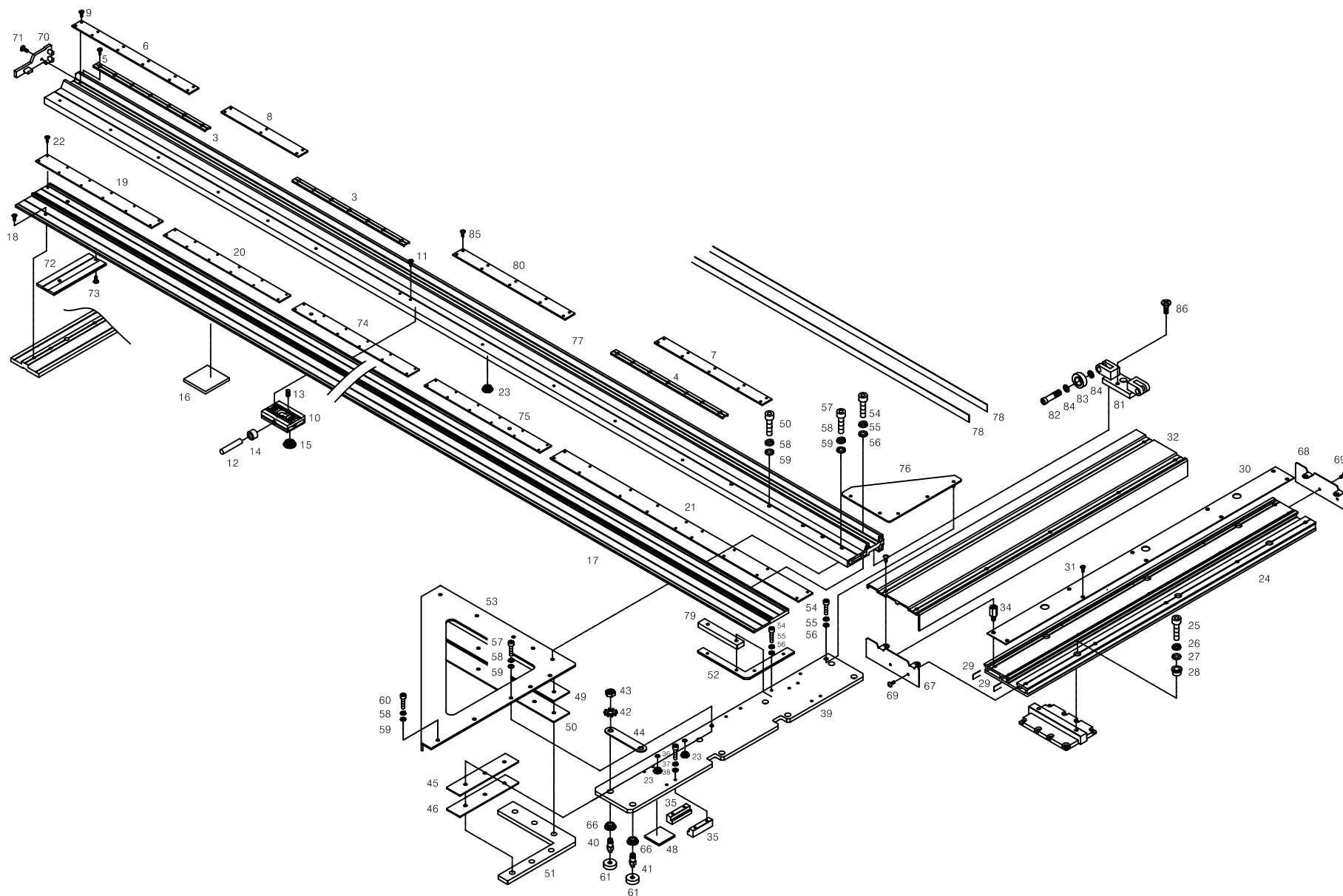


From the library of: Superior Sewing Machine & Supply LLC



Q

Frame

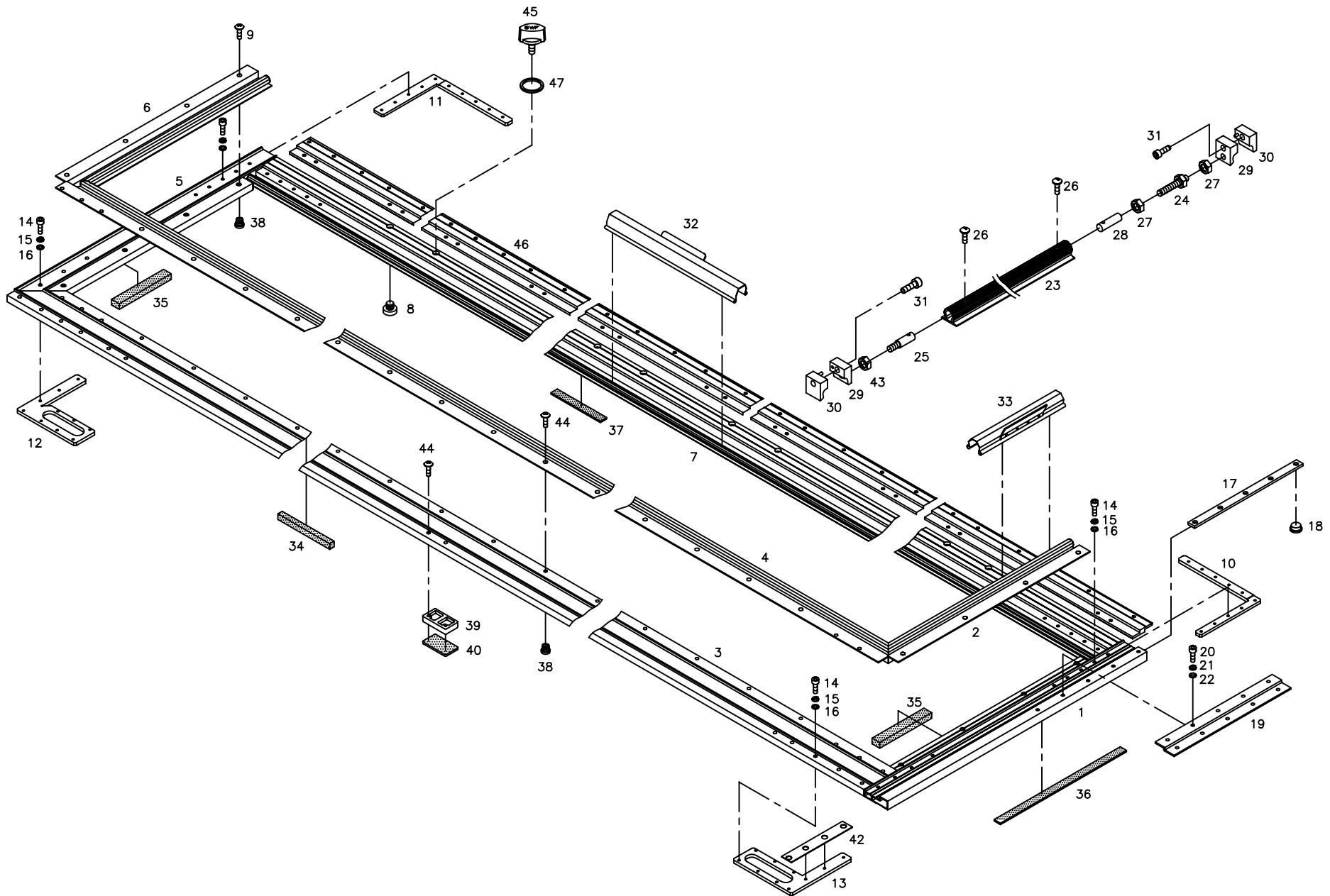


Ref.No	Part No.	Part Names	Q'ty
Q-003	06100300THF0	X- Frame Rail Plate Cap Th1215	14
Q-004	06100400THF0	X- Frame Rail Plate Cap Th1215	2
Q-005	10011SC-8119	Plus Screw (M3*L6)	80
Q-006	06100500THF0	Rail Plate (A) L799	6
Q-007	06100600THF0	Rail Plate (B) L399	2
Q-008	06100700THF0	Rail Plate (C) L721	1
Q-009	10011SC-8119	Plus Screw (M3*L6)	94
Q-010	06100800TH00	Frame Bearing Block Th1215	5
Q-011	15089SC-7119	C.S Screw (M4*L10)	10
Q-012	22007BR-UK01	Bearing Pin	5
Q-013	03022SC-4517	Hex. Socket Set Screw(M4*L5)	10
Q-014	22009BR-UK01	Needle Bearing (Taf51010)	5
Q-015	18045SC-A001	Screw Bush (M4*P0.7)	10
Q-016	06100900TH00	X-Frame Felt Th1215	6
Q-017	06101000TH00	X-Frame Rail Base Th1215	1
	06101000UIC0	X-Frame Rail Base UI1212	
Q-018	27018SC-8119	Plus Screw (M5*L15)	10
Q-019	06101100TH00	X-Frame Rail Base Plate (A)	1
Q-020	06101200TH00	X-Frame Rail Base Plate (B)	1
Q-021	06101300TH00	X-Frame Rail Base Plate (C)	1
Q-022	10011SC-8119	Plus Screw (M3*L6)	60
Q-023	22002CW-UK01	Screw Bush "A"	36
Q-024	GP-008743-01	Z- Frame Uh1515	1
Q-025	08091SC-7113	Hex. Socket Bolt (M6*L20)	6
Q-026	16014SW-4115	Spring Washer (@6)	6
Q-027	08057SW-1111	Washer (@6)	6
Q-028	18070CW-A021	Insert Bushing	6
Q-029	GP-008744-01	Z- Frame Rail Plate Uh1515	2
Q-030	GP-008745-01	Z- Frame Surface Rail Plate	1
Q-031	10011SC-8119	Plus Screw (M3*L6)	12
Q-032	GP-008746-01	Z- Frame Cover Uh1515	1
Q-033	02044SC-3123	Truss Screw (M5*L8)	9
Q-034	06002000TH00	Z- Frame Cover Stud Th1215	7
Q-035	06002100TH00	Z- Frame Float Preventive	4
Q-036	11029SC-4113	Hex. Socket Bolt (M4*L20)	8
Q-038	18015SW-3111	Washer (4@)	8
Q-039	06100800UHF0	Y- Frame Uh1515	1
Q-040	06002300TH00	Bearing Pin (E) Th1215	4
Q-041	06002400TH00	Bearing Pin (F) Th1215	4
Q-042	15077SW-2111	Washer (8@-S)	6
Q-043	04032SN-A001	Hex. Nut (M8-No2)	6

Ref. No	Part No.	Part Names	Q'ty
Q-044	06002500TH00	Bearing Pin Space Th1215	6
Q-045	06002600TH00	Y-Frame Connecting Spacer T1.0	1
Q-046	06004000TH00	Y-Frame Connecting Spacer T0.8	1
Q-049	06002800TH00	X-Frame Connecting Spacer F-A	1
Q-050	06004100TH00	X-Frame Connecting Spacer T0.8	1
Q-051	06003000TH00	Frame Connecting Block (F)	1
Q-052	06101100UHF0	Frame Connecting Block (L)	1
Q-053	06003200TH00	Z-Frame Connecting Cover (A)	1
Q-054	08062SC-7113	Hex. Socket Bolt (M5*L20)	3
Q-055	18048SW-3115	Spring Washer (5@)	3
Q-056	18049SW-3111	Washer (@5)	3
Q-057	08062SC-7113	Hex. Socket Bolt (M5*L20)	6
Q-058	18048SW-3115	Spring Washer (5@)	10
Q-059	18049SW-3111	Washer (@5)	10
Q-060	18047SC-7113	Hex/ Socket Bolt (M5*L15)	4
Q-061	15077BR-B001	Ball Bearing (Lr606Nppu)	8
Q-066	06003400TH00	Y-Frame Bush Th1215	6
Q-067	06003600TH00	Z-Frame Side Cover (F) Th1215	1
Q-068	06003700TH00	Z-Frame Side Cover (R) Th1215	1
Q-069	09005SC-3123	Truss Screw (M3*L6)	4
Q-070	06003800TH00	X-Frame Side Cap Th1215	1
Q-071	09005SC-3123	Truss Screw (M3*L6)	1
Q-072	06004200TH00	Rail Slide Block	15
Q-073	10011SC-8119	Plus Screw (M3*L6)	30
Q-074	06101400TH00	X-Frame Rail Base Plate (D)	1
Q-075	06101500TH00	X-Frame Rail Base Plate (E)	1
Q-076	06101200UHF0	Z-Frame Connecting Cover (B)	1
Q-077	06100110UHF0	X - FRAME L6429 UH1515	1
	06100110UIC0	X - FRAME L5609 UI1212	1
Q-078	06100210UHF0	X - FRAME RAIL PLATE UH1515	4
	06100210UIC0	X - FRAME RAIL PLATE L5455	4
Q-079	06100910UHF0	Y-FRAME CONNECTING SPACER (L)	1
Q-080	06101600TH00	RISE PREVENTION RAIL PLATE D	4
	06101600UIC0	RAIL PLATE (C) L523	4
Q-081	04003000THF0	RISE PREVENTION BRACKET (LOW)	4
Q-082	04003300THF0	RISE PREVENTION BEARING PIN	4
Q-083	04001400TH00	BEARING (LR 604 NPPU)	8
Q-084	18015SW-3111	WASHER (4@)	16
Q-085	10011SC-8119	PLUS SCREW (M3*L6)	40
Q-086	15089SC-7119	C.S SCREW (M4*L10)	4

Q1

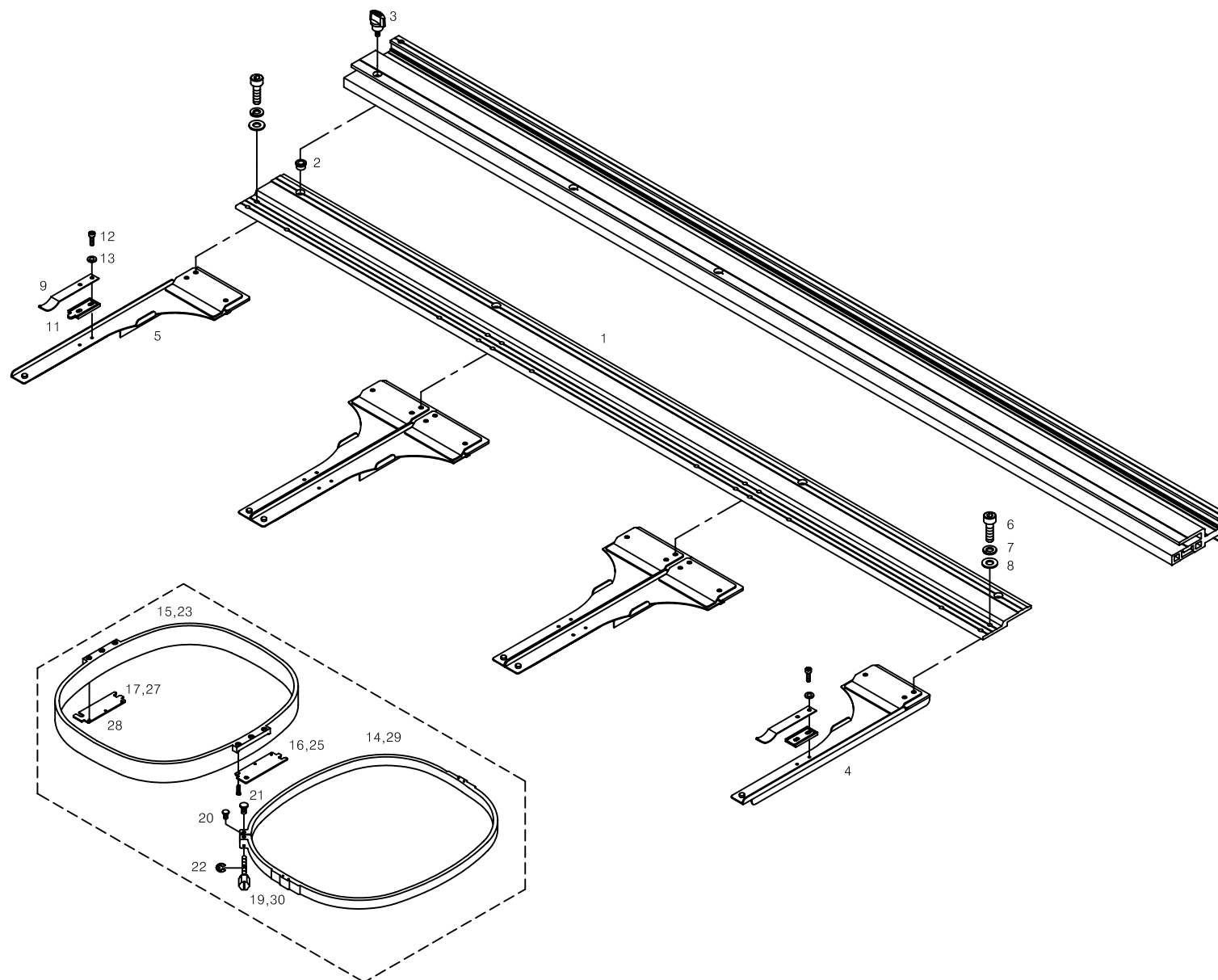
Border Frame (OPTION)



[illegible]

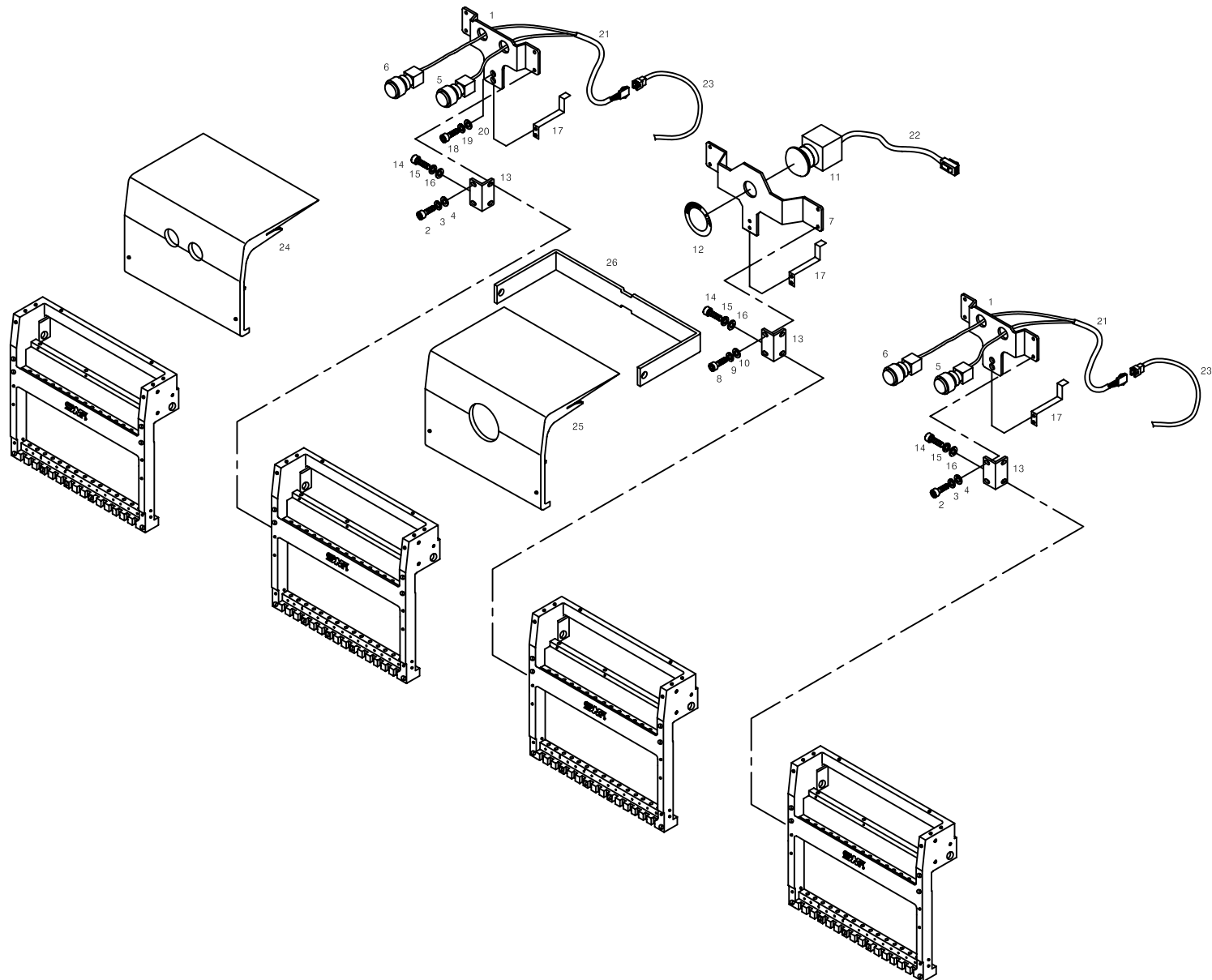
R

Tubular Frame



S

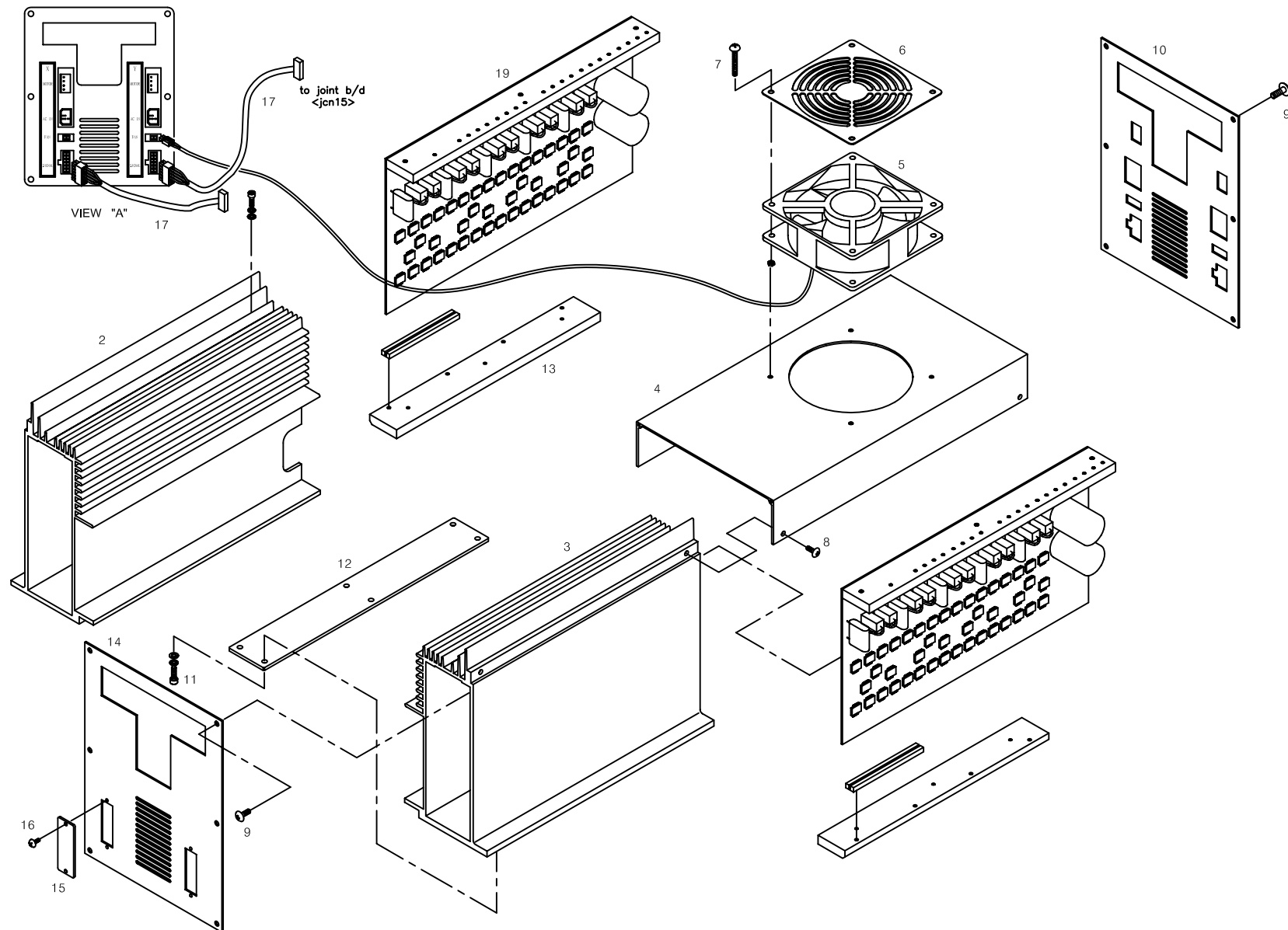
S/B Switch



T

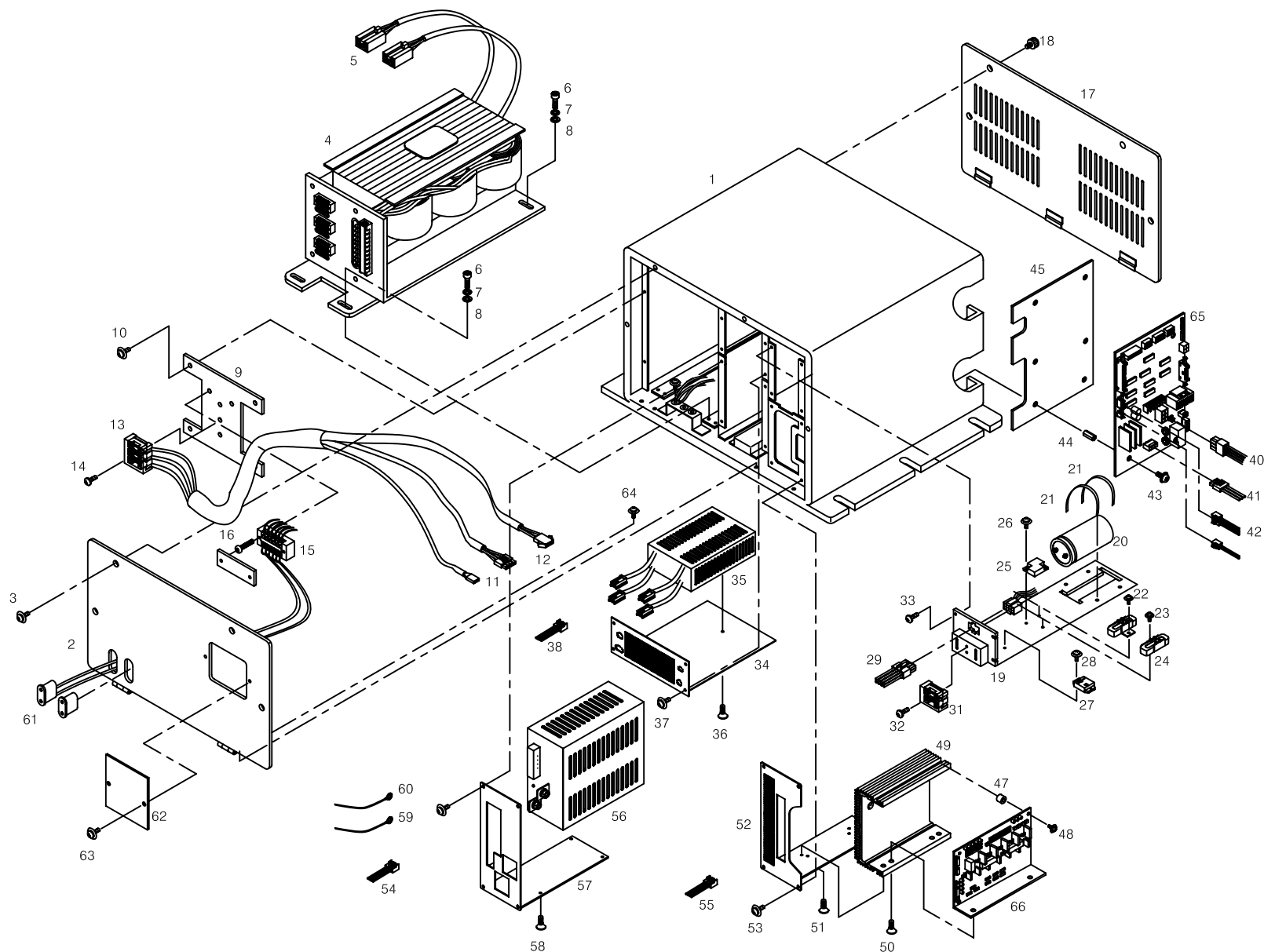
X-Y Driver

SWF®



U

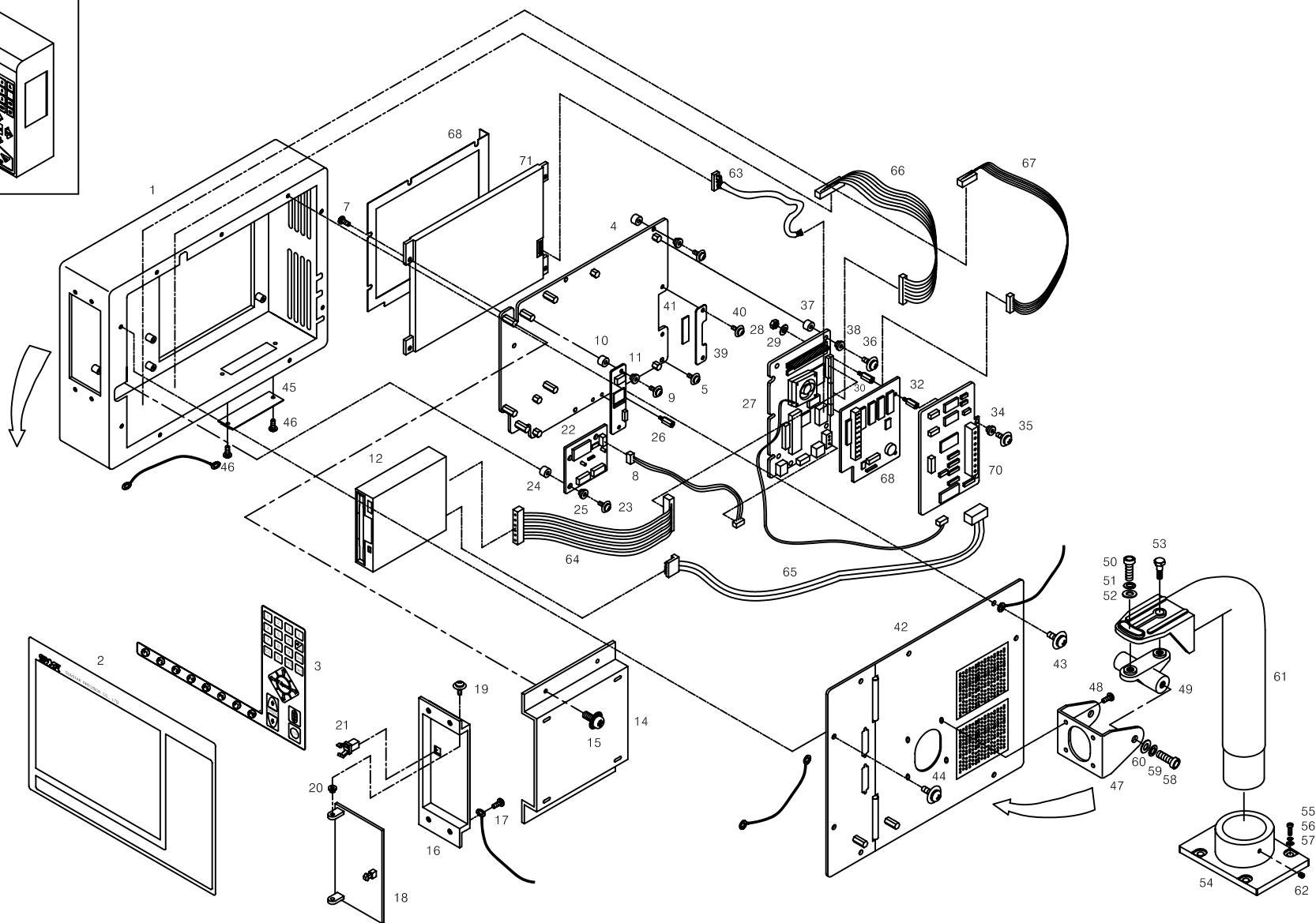
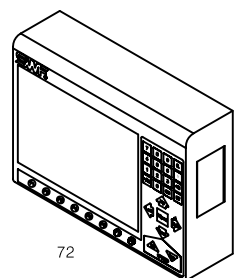
Main Controller



V

Operation Box

SWF®



W

Bobbin Winder

SMF®