

CEDAR *Special*

CS-3020H

Extra Heavy Duty Programmable Electronic Pattern Sewing Machine



Parts Manual

CS-3020H electronic pattern sewing machine for extra-thick materials

This sewing machine is one of the electronic sewing machine series specialized for goods with large-scale and thick material of industries such as climbing rope, bags and luggage, shoes and hats, household articles, sports goods and vehicle interior. It is equipped with high-precision servo control system and high-performance servo motor drive, which can set up arbitrary sewing model in prescribed range. The machine possesses strict structure, reliable and accurate transmission and can carry out setting of various parameters like patterns, stitch number and stitch trace length by random programming unit. It is convenient to input, store, revise and utilize patterns and also conducts sewing process by USB inputting pre-compiled patterns. And it is a kind of large-scale electronic pattern sewing machine specialized for goods with extra-thick materials like leather and lifting belts.

Technical Parameters

Model	CS-3020H
Allowable sewing range	Direction X (right & left) max 300mm, direction Y (front & back) max 200mm
Highest sewing speed	700r.p.m
Speed setting	100-800r.p.m arbitrary setting
Needle rod stroke	56mm
Take-up-lever stroke	96mm
Lifting of material-press plate	Outer material-press plate 25mm (pneumatic), middle presser foot 20mm
Needle	DYX3 230
Thread cut method	Heat—cut method
Shuttle	Large shuttle hook KSP-204
X-Y driving mechanism	Stepping motor, synchronous belt, linear guide driving interval and continuous switching mode
Spindle motor	220V 750W servo motor

Pattern Sewing Machine Parts Catalogue

Model **7273PLK/7273CNC**

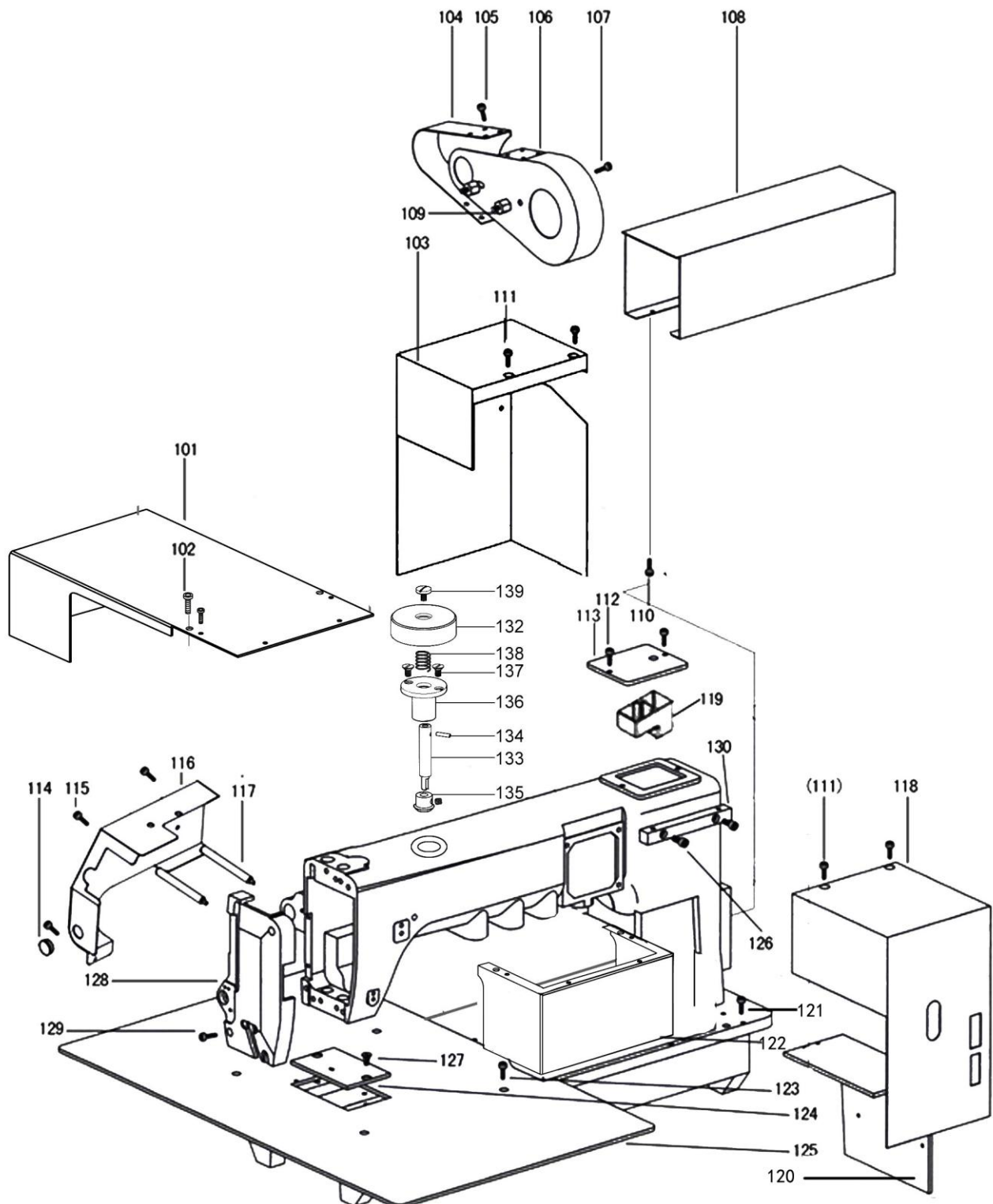
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A Structure



(1) Sewing machine head (2) Thread stand (3) Operational panel (4) Emergency stop switch (5) Table (6) Frame (7) Electric trimming control box (8) Power switch (9) Start-up foot switch (10) Material-presser plate foot switch

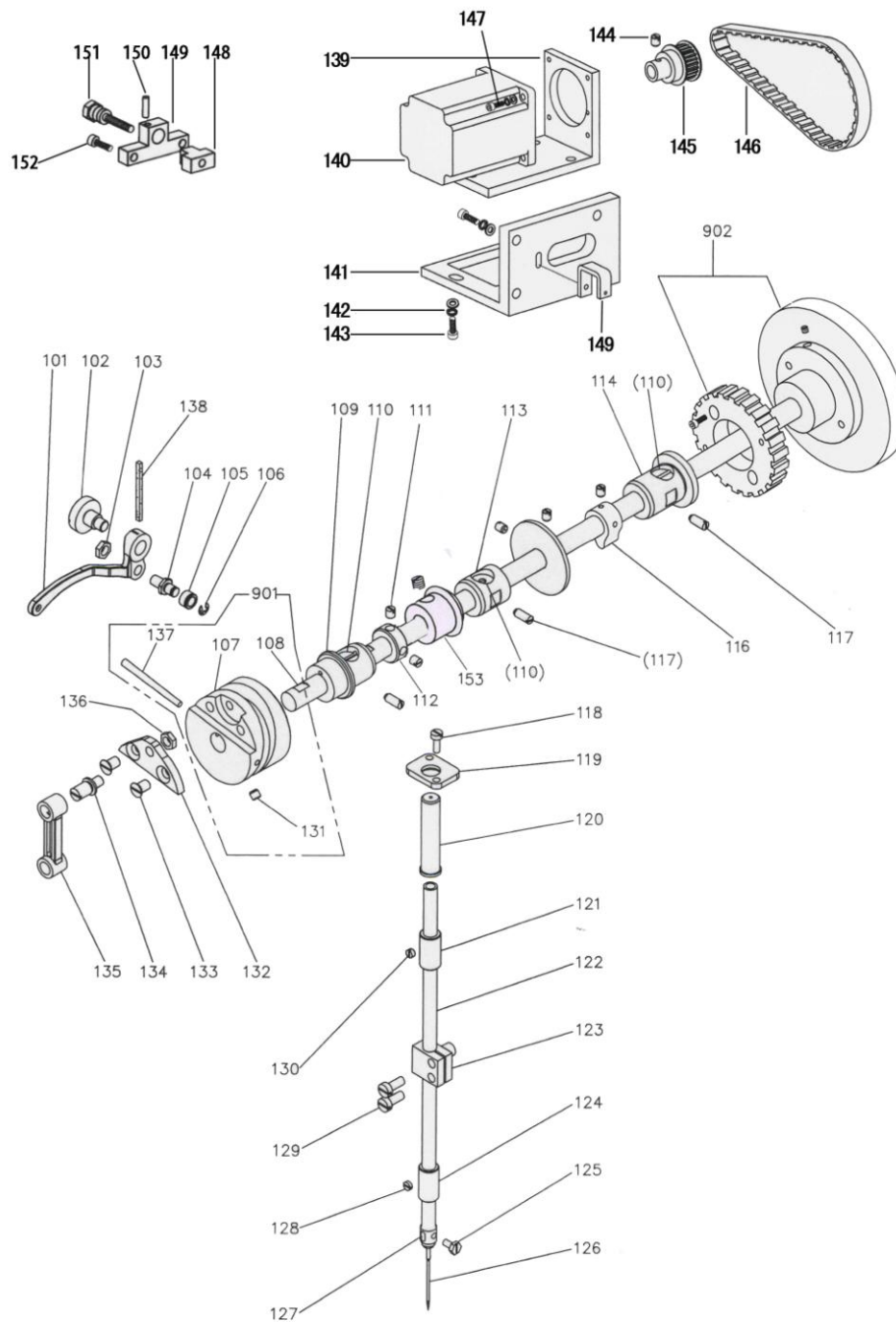
B Body and Its Accessories



[B] Body and its accessories

Fig No.	Name	Quantity	Remark
B101	X-axis cover (L)	1	
B102	Cover screw	8	
B103	Spindle motor cover	1	
B104	Synchronous belt cover A	1	
B105	Synchronous cover screw	8	
B106	Synchronous belt cover B	1	
B107	Synchronous belt cover fixed screw	2	
B108	Y-axis cover	1	
B109	Synchronous belt cover coupling screw	2	
B110	Cover screw	2	
B111	Motor cover fixed screw	4	
B112	Motor cover upper plate screw	2	
B113	Motor cover upper plate	1	
B114	Rubber plug	4	
B115	Front cover fixed screw	3	
B116	Front cover	1	
B117	Extension rod	2	
B118	Y-axis motor cover	1	
B119	Oil box	1	
B120	Magnetic valve holder	1	
B121	Holder fixed screw	2	
B122	X-axis cover (R)	1	
B123	Slide plate fixed screw	4	
B124	Needle plate	1	
B125	Slide plate	1	
B126	Connecting plate fixed screw	2	
B127	Needle plate screw	2	
B128	Panel	1	
B129	Panel screw	2	
B130	Connecting plate	1	
B132	Hand plate wheel	1	
B133	Hand plate wheel locating shaft	1	
B134	Connecting pin	1	
B135	Manual driving gear	1	
B136	Horizontal driving sleeve	1	
B137	Sleeve fixed screw	3	
B138	Spring	1	
B139	Hand plate wheel screw	1	

C Sewing Mechanism (1)

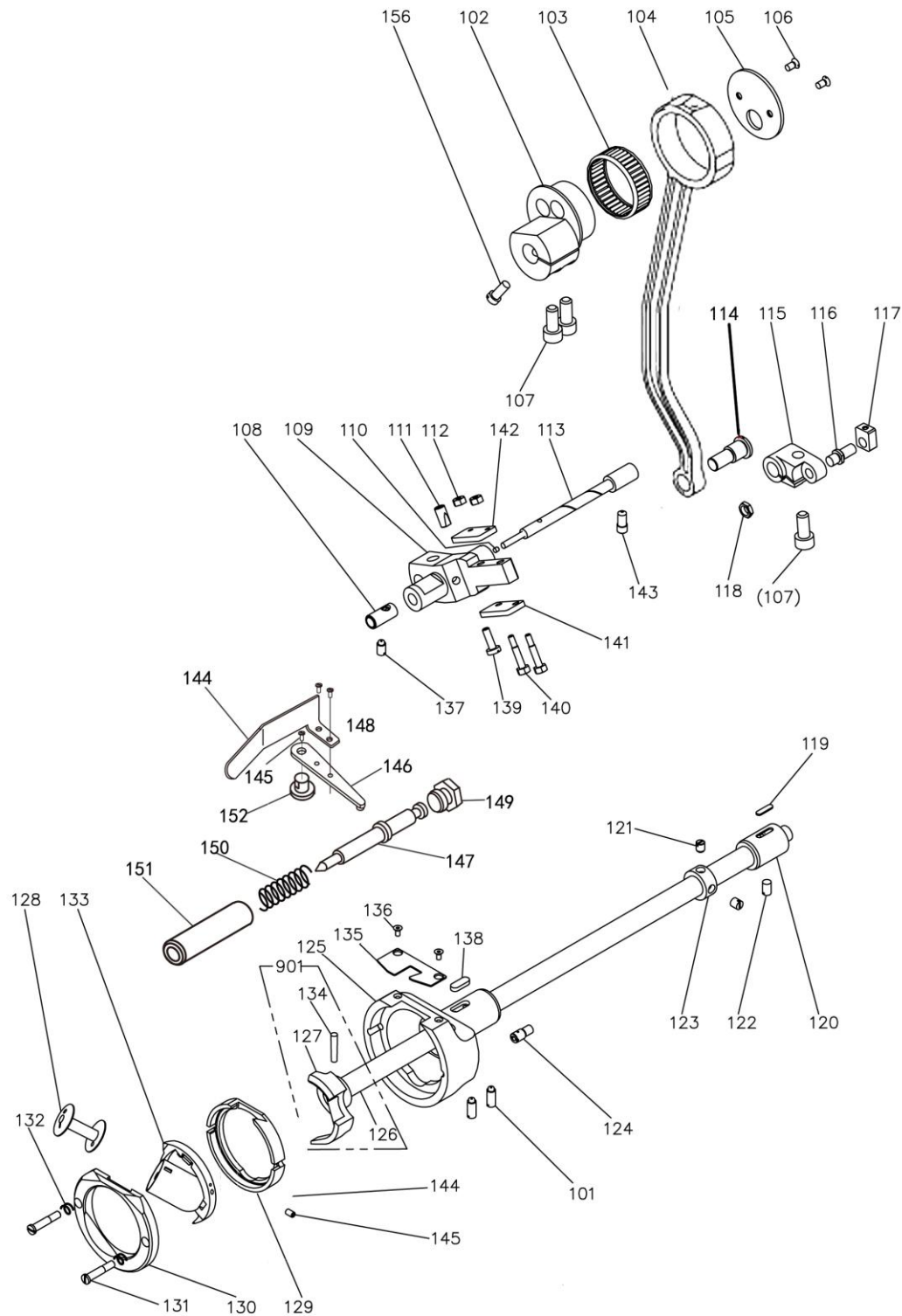


【Note】 When ordering main shaft (108) as a unit, cone hole on the main shaft is not processed.

[C] Sewing mechanism (1)

Fig No.	Name	Quantity	Remark
C101	Take-up lever	1	
C102	Take-up screw	1	
C103	Take-up nut	1	
C104	Take-up lever roller stud	1	
C105	Take-up lever roller	1	
C106	E-type retaining ring	1	
C107	Thread take-up cam	1	
C108	Arm shaft	1	
C109	Arm shaft bushing	1	
C110	Felt	3	
C111	Fixed screw	5	
C112	Arm shaft fixed ring	1	
C113	Arm shaft bushing (middle)	1	
C114	Arm shaft bushing (rear)	1	
C116	Arm shaft inducting iron	1	
C117	Arm shaft bushing screw	3	
C118	Guide plate fixed screw	2	
C119	Needle bar cover plate	1	
C120	Needle bar cover	1	
C121	Needle bar upper cover	1	
C122	Needle bar	1	
C123	Needle bar connecting shaft	1	
C124	Needle bar lower cover	1	
C125	Thread wire screw	1	
C126	Needle	1	
C127	Needle bar thread wire	1	
C128	Needle bar lower cover screw	1	
C129	Needle bar connecting shaft screw	2	
C130	Needle bar upper cover screw	1	
C131	Take-up cam screw	1	
C132	Take-up cam connecting base	1	
C133	Cam connecting base screw	2	
C134	Take-up cam connecting shaft	1	
C135	Needle small connecting rod	1	
C136	Cam connecting base nut	1	
C137	Take-up cam bolt	1	
C138	Felt strip	1	
C139	Spindle motor locating frame	1	
C140	Spindle motor	1	
C141	Spindle motor adjusting plate	1	
C142	Motor adjusting screw gasket	2	
C143	Motor fixed	2	
C144	Synchronizing wheel fixed screw	2	
C145	Arm shaft synchronizing wheel	1	
C146	Arm shaft synchronizing belt	1	
C147	Spindle motor fixed screw	2	
C148	Synchronizing belt adjusting successive presser	1	
C149	Adjusting holder	1	
C150	Locating pin	1	
C151	Adjusting screw	1	
C152	Fixed screw	2	
C153	Manual pulley gear	1	
C154	Arm shaft inducting iron holder	1	
C901	Arm shaft assembly	1	
C902	Hand wheel assembly	1	

D Sewing Mechanism (2)

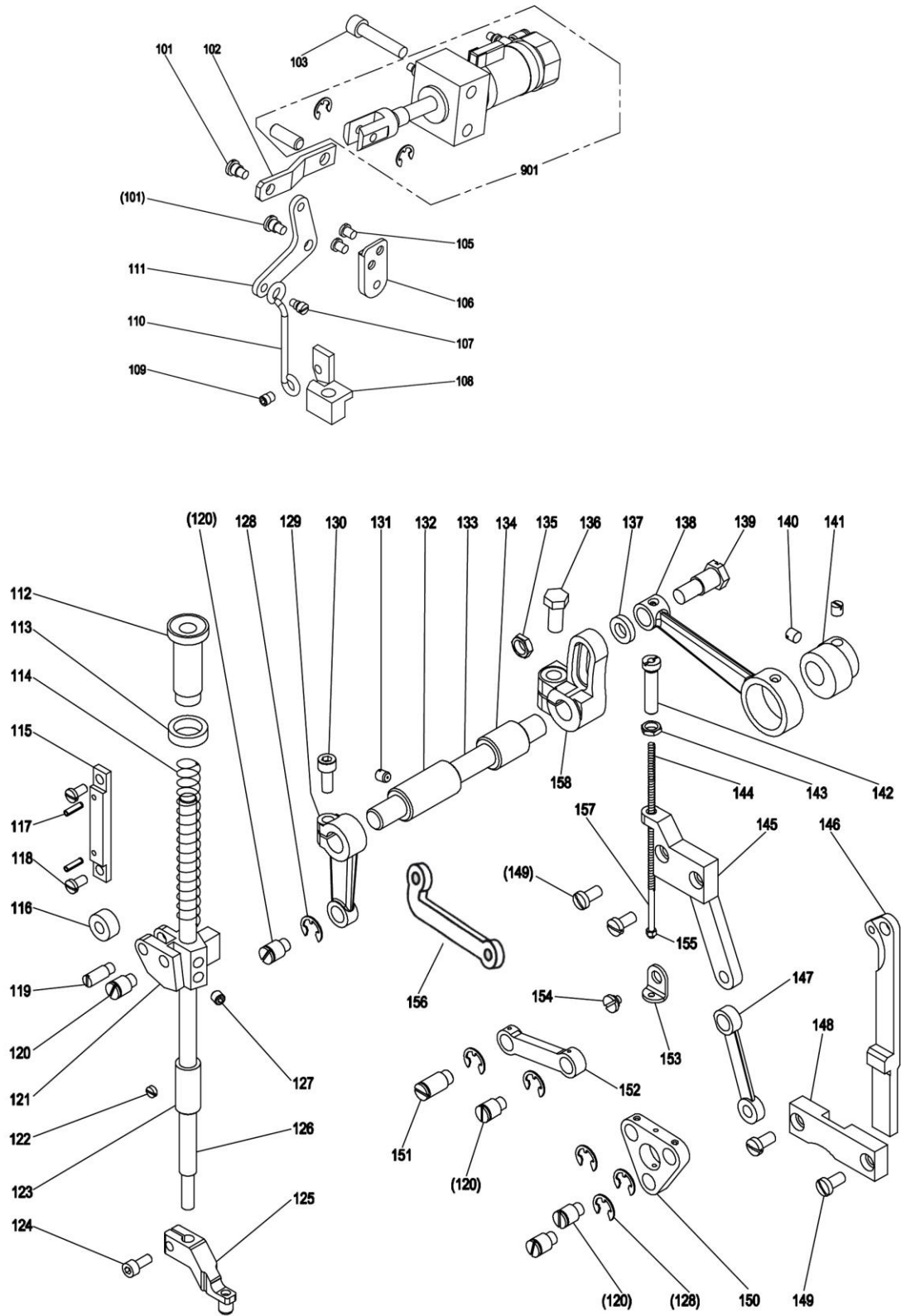


【Note】 When ordering the bottom shaft (126) as a unit, cone hole of the bottom shaft is not processed.

[D] Sewing mechanism (2)

Fig No.	Name	Quantity	Remark
D101	Shuttle race fixed screw	2	
D102	Arm shaft eccentric cam	1	
D103	Big connecting rod bearing	1	
D104	Big connecting rod	1	
D105	Eccentric cam side plate	1	
D106	Side plate fixed screw	2	
D107	Arm shaft eccentric cam locking screw	2	
D108	Center shaft sleeve	2	
D109	Pendulum shaft	1	
D110	Center shaft oil tube rivet	1	
D111	Big connecting rod locking screw pin	1	
D112	Pendulum clamp nut	2	
D113	Pendulum center shaft	1	
D114	Big connecting rod connecting shaft	1	
D115	Bottom shaft crank	1	
D116	Slider stud	1	
D117	Pendulum slider	1	
D118	Slider nut	1	
D119	Felt strip	1	
D120	Bottom shaft bushing (Rear)	1	
D121	Bottom shaft fixed screw	2	
D122	Bottom shaft bushing screw	1	
D123	Bottom shaft fixed ring	1	
D124	Shuttle race fixed screw	1	
D125	Shuttle race base	1	
D126	Bottom shaft	1	
D127	Pendulum shuttle driver	1	
D128	Bobbin	1	
D129	Shuttle race	1	
D130	Shuttle race ring	1	
D131	Shuttle race screw	2	
D132	Compression spring	2	
D133	Shuttle hook	1	
D134	Shuttle hook bolt	1	
D135	Lower thread plate	1	
D136	Lower thread plate screw	2	
D137	Center shaft bushing screw	1	
D138	Felt strip	1	
D139	Big connecting rod coupling screw	1	
D140	Pendulum clamp screw	2	
D141	Pendulum lower plate	1	
D142	Pendulum upper plate	1	
D143	Center shaft fixed screw	1	
D144	Start-up spanner	1	
D145	Screw	1	
D146	Connecting pin	1	
D147	Pin	1	
D148	Locating pin fixed screw	2	
D149	Plug	1	
D150	Compression spring	1	
D151	Locating sleeve	1	
D152	Pin shaft	1	

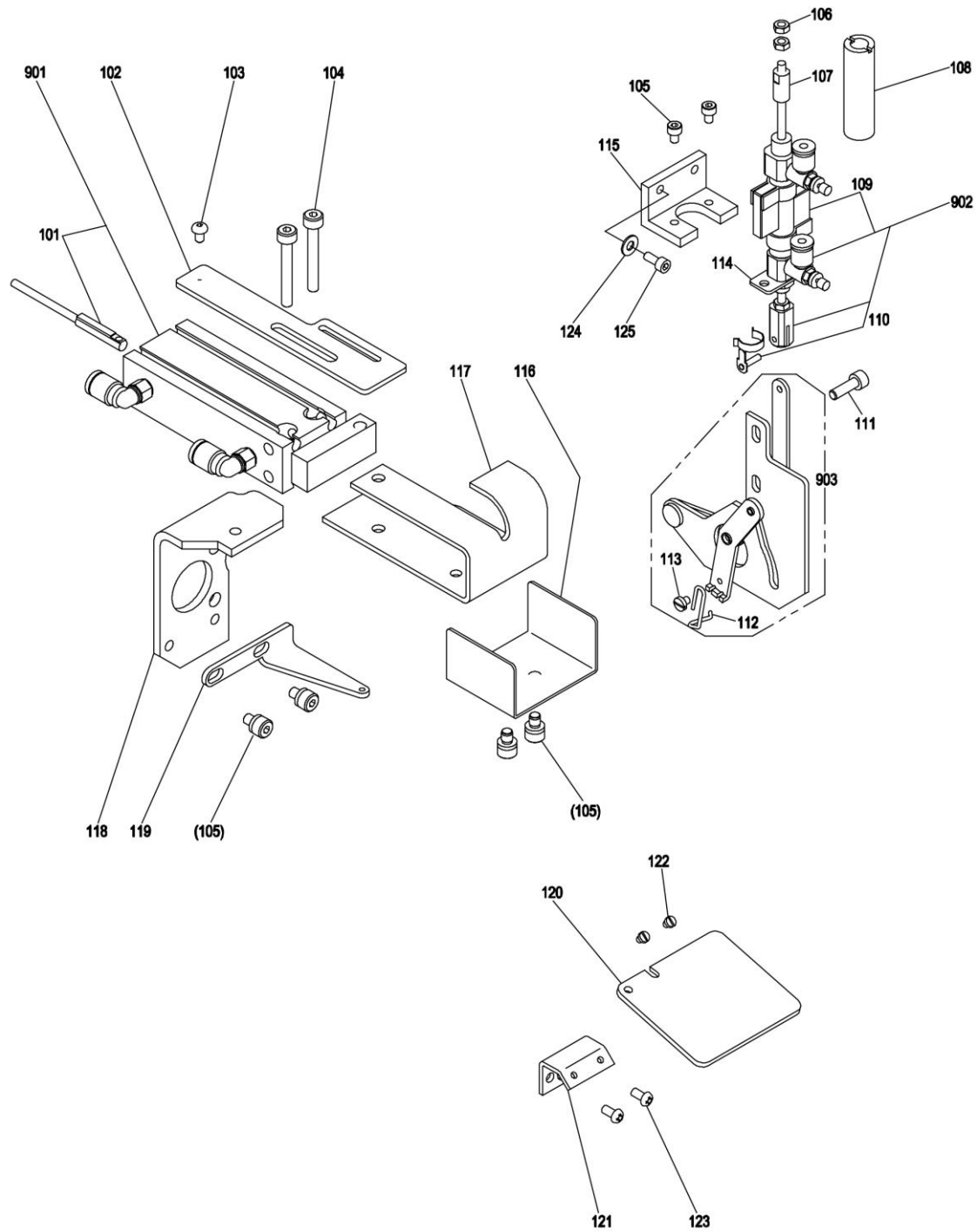
E Presser Bar Lifting Mechanism



[E] Presser bar lifting mechanism

Fig No.	Name	Quantity	Remark
E101	Connecting rod coupling screw	2	2
E102	Presser bar lifting lever	1	1
E103	Cylinder fixed adjusting screw	2	2
E104	Presser foot cylinder	1	1
E105	Mounting plate fixed screw	2	2
E106	Mounting plate	1	1
E107	Lifting lever coupling screw	1	1
E108	Presser lifting frame	1	1
E109	Lifting frame screw	1	1
E110	Presser lifting lever	1	1
E111	Presser lifting arm	1	1
E112	Presser adjusting screw	1	1
E113	Compressed spring locking nut	1	1
E114	Presser compression spring	1	1
E115	Guide plate	1	1
E116	Roller wheel	1	1
E117	Locating pin	2	2
E118	Guide plate fixed screw	2	2
E119	Roller shaft	1	1
E120	Coupling screw	3	3
E121	Presser guide frame	1	1
E122	Presser lower cover screw	1	1
E123	Presser lower cover	1	1
E124	Presser foot fastening screw	1	1
E125	Presser foot	1	1
E126	Presser	1	1
E127	Presser guide frame fixed screw	2	2
E128	E-type retaining ring	6	6
E129	Differential adjusting front crank	1	1
E130	Front crank fastening screw	1	1
E131	Differential shaft bushing screw	2	2
E132	Differential shaft front bushing	1	1
E133	Differential shaft	1	1
E134	Differential shaft rear bushing	1	1
E135	Adjusting nut	1	1
E136	Differential adjusting crank fastening screw	1	1
E137	Flat gasket	1	1
E138	Differential adjusting connecting rod	1	1
E139	Differential adjusting crank coupling screw	1	1
E140	Eccentric screw	2	2
E141	Differential adjusting eccentricity	1	1
E142	Pressure adjusting screw	1	1
E143	Pressure adjusting nut	1	1
E144	Pressure adjusting spring	1	1
E145	Connecting rod frame	1	1
E146	Differential presser	1	1
E147	Connecting rod A	1	1
E148	Guide frame	1	1
E149	Connecting rod frame fixed screw	4	4
E150	Triangle connecting rod	1	1
E151	Long coupling screw	1	1
E152	Connecting rod B	1	1
E153	Spring support plate	1	1
E154	Support plate fixed screw	1	1
E156	Shake connecting rod	1	1
E157	Spring guide rod	1	1
E158	Differential adjusting crank	1	1
E901	Presser foot lifting cylinder unit	1	1

F Upper Thread Trimmer Mechanism (1)

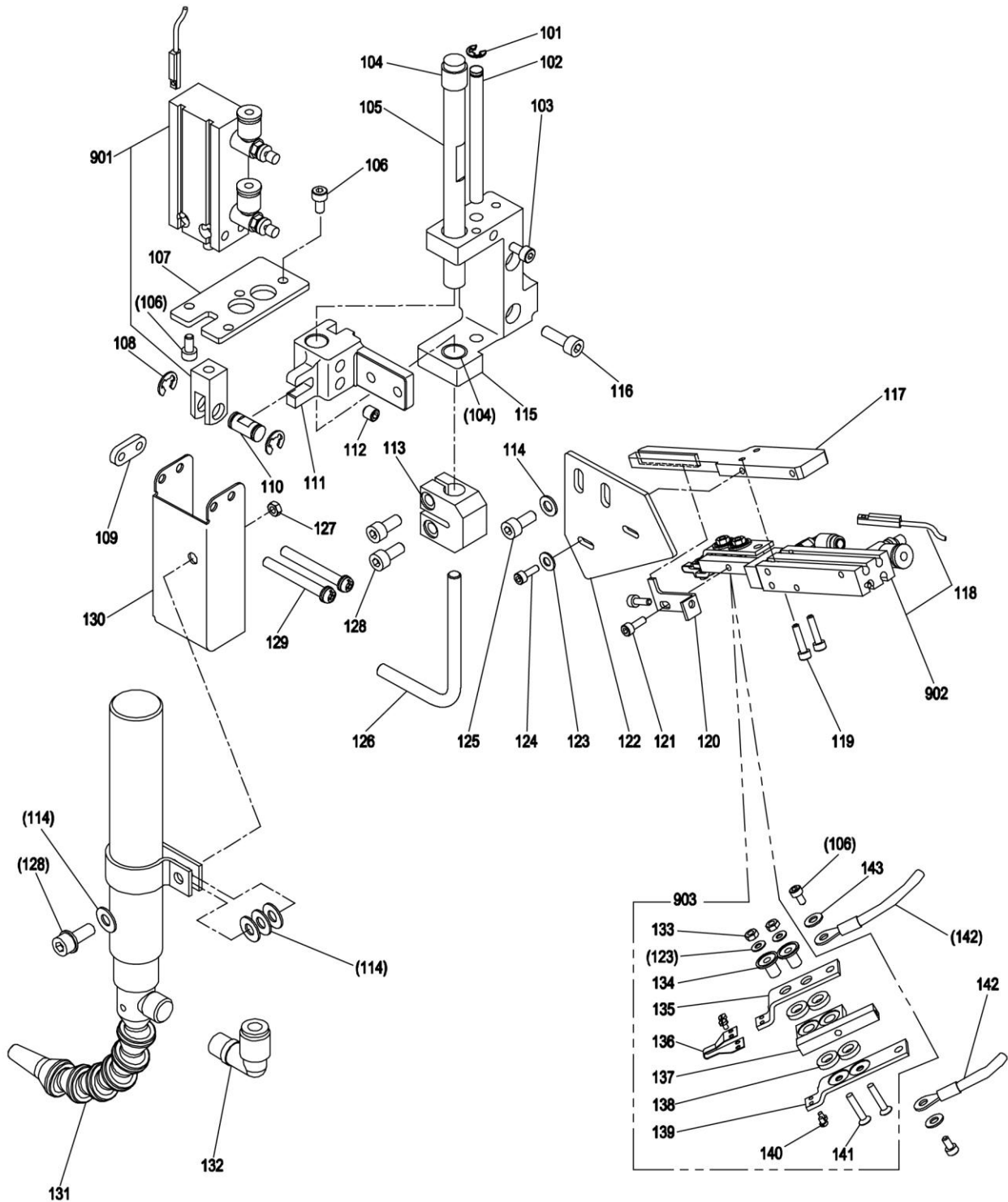


[F] Upper thread trimmer mechanism (1)

Fig No.	Name	Quantity	Remark
F101	Inductor	1	
F102	Thread take-up guide plate	1	
F103	Locating screw	1	
F104	Guide plate fixed screw	2	
F105	Fixed screw	6	
F106	Adjusting nut	2	
F107	Braking cover	1	
F108	Protecting cover	1	
F109	Inductor	2	
F110	Connector unit	1	
F111	Thread stripper assembly fixed screw	2	
F112	Thread stripping hook	1	
F113	Thread stripping hook fixed screw	1	
F114	Thread blocker cylinder fixed plate	1	
F115	Thread blocker cylinder bracket	1	
F116	Bracing thread cylinder side cover	1	
F117	Bracing thread cylinder cover	1	
F118	Threading frame fixed plate	1	
F119	Threading frame	1	
F120	Eye guard	1	
F121	Eye guard holder	1	
F122	Eye guard fixed screw	2	
F123	Eye guard holder fixed screw	2	
F124	Gasket	2	
F125	Bracket fixed screw	2	
F901	Bracing thread cylinder unit	1	
F902	Thread blocker cylinder unit	1	
F903	Thread stripper assembly	1	



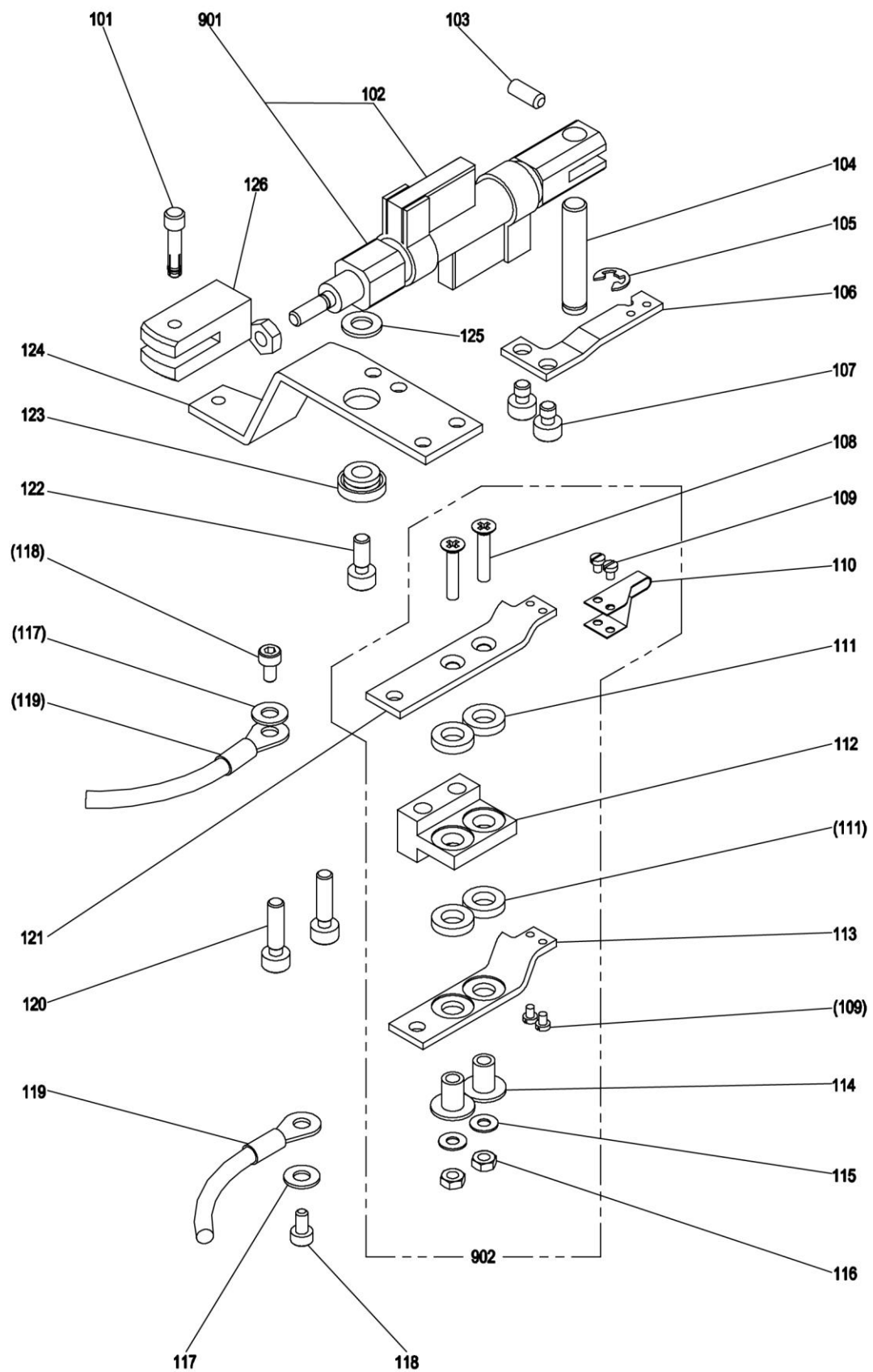
Upper Trimming Mechanism (1)



[G] Upper trimming mechanism (1)

Fig No.	Name	Quantity	Remark
G101	E-type retaining ring 4	1	
G102	Locating shaft	1	
G103	Bracket fixed screw	1	
G104	Lifting shaft sleeve	2	
G105	Lifting shaft	1	
G106	Connecting plate fixed screw	6	
G107	Cylinder connecting plate	1	
G108	E-type retaining ring 6	2	
G109	Cover fixed plate	1	
G110	Connecting pin	1	
G111	Guide frame	1	
G112	Lifting shaft fixed screw	2	
G113	Fixed holder	1	
G114	Gasket	4	
G115	Cylinder bracket	1	
G116	Bracket fixed screw	2	
G117	Guide plate	1	
G118	Inductor	1	
G119	Thread stripping cylinder fixed screw	2	
G120	Guide vane	1	
G121	Guide vane screw	2	
G122	Triangle plate	1	
G123	Gasket		
G124	Thread stripping cylinder adjusting screw	2	
G125	Triangle plate fixed screw	3	
G126	Detection rod	1	
G127	Locking nut	1	
G128	Holder fastening screw	3	
G129	Guide frame cover fixed screw	2	
G130	Guide frame cover	1	
G131	Cooling tube	1	
G132	L-shape connector	1	
G133	Current-carrying plate locking nut	2	
G134	Insulating bush	2	
G135	Upper current-carrying plate	1	
G136	Heat thread trimmer	1	
G137	Insulating lining plate	1	
G138	Insulating spacer	4	
G139	Lower current-carrying plate	1	
G140	Thread trimmer fixed screw	4	
G141	Trimming combination screw	2	
G142	Trimming power cable	2	
G901	Thickness detector cylinder assembly	1	
G902	Trimming cylinder assembly	1	
G903	Upper thread trimmer assembly	1	

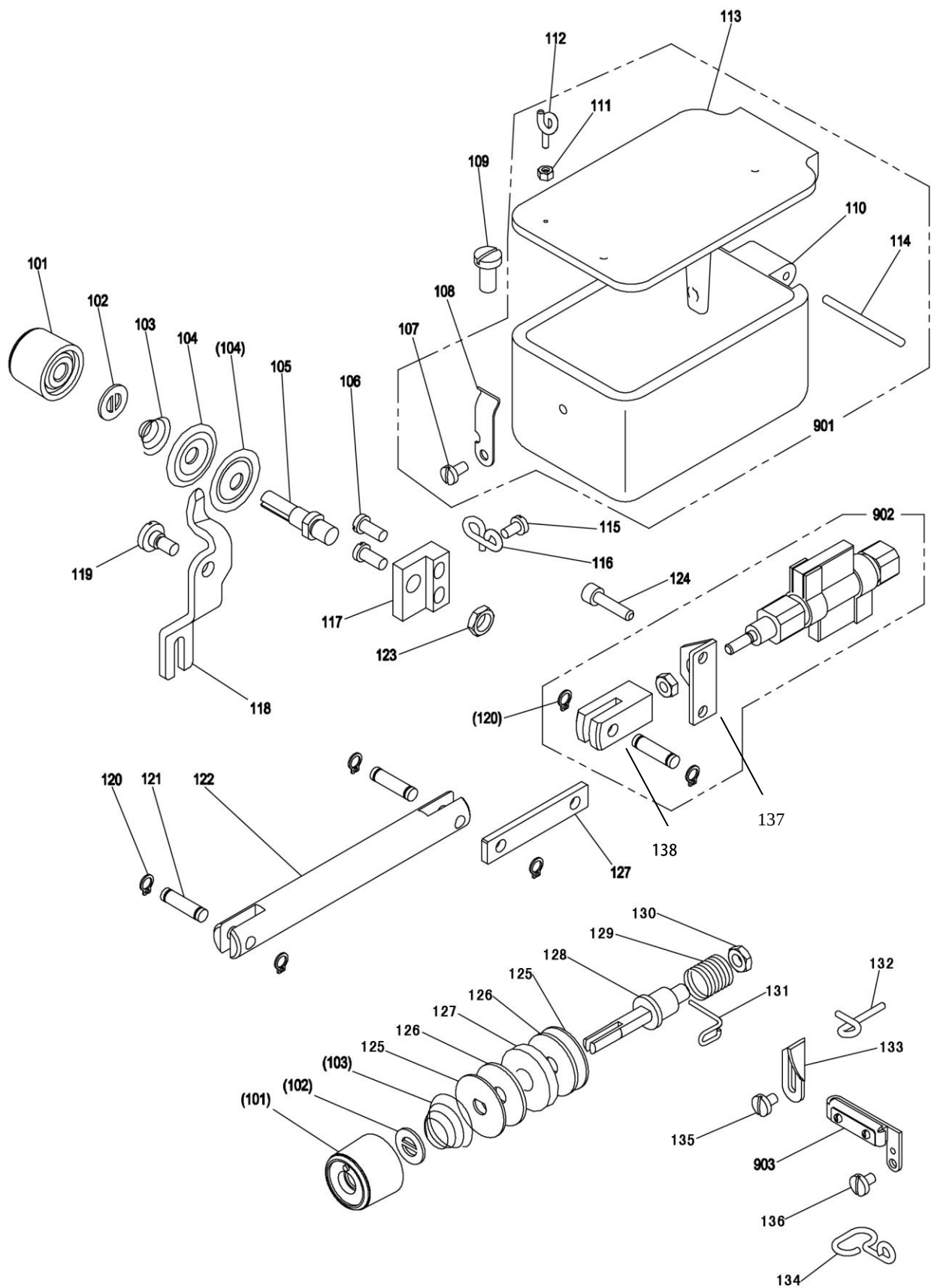
[H] Lower Trimming Mechanism



[H] Lower trimming mechanism

Fig No.	Name	Quantity	Remark
H101	Crevice pin	1	
H102	Lower trimming cylinder	1	
H103	Fixed screw	1	
H104	Fixed pin	1	
H105	E-type retaining ring 2	1	
H106	Lower thread let out plate	1	
H107	Thread let out plate fixed screw	2	
H108	Trimming combination screw	2	
H109	Thread trimmer fixed screw	4	
H110	Heat thread trimmer	1	
H111	Insulating spacer	4	
H112	Insulating lining plate	1	
H113	Lower current-carrying plate	1	
H114	Insulating bush	2	
H115	Gasket	2	
H116	Current-carrying plate locking nut	2	
H117	Gasket	2	
H118	Power cable fixed screw	2	
H119	Power cable	2	
H120	Screw	2	
H121	Upper current-carrying plate	1	
H122	Swing plate fixed screw	1	
H123	Swing plate locating sleeve	1	
H124	Swing plate	1	
H125	垫片	1	
H126	Connector	1	
H901	Lower trimming cylinder unit	1	
H902	Lower thread trimmer assembly	1	

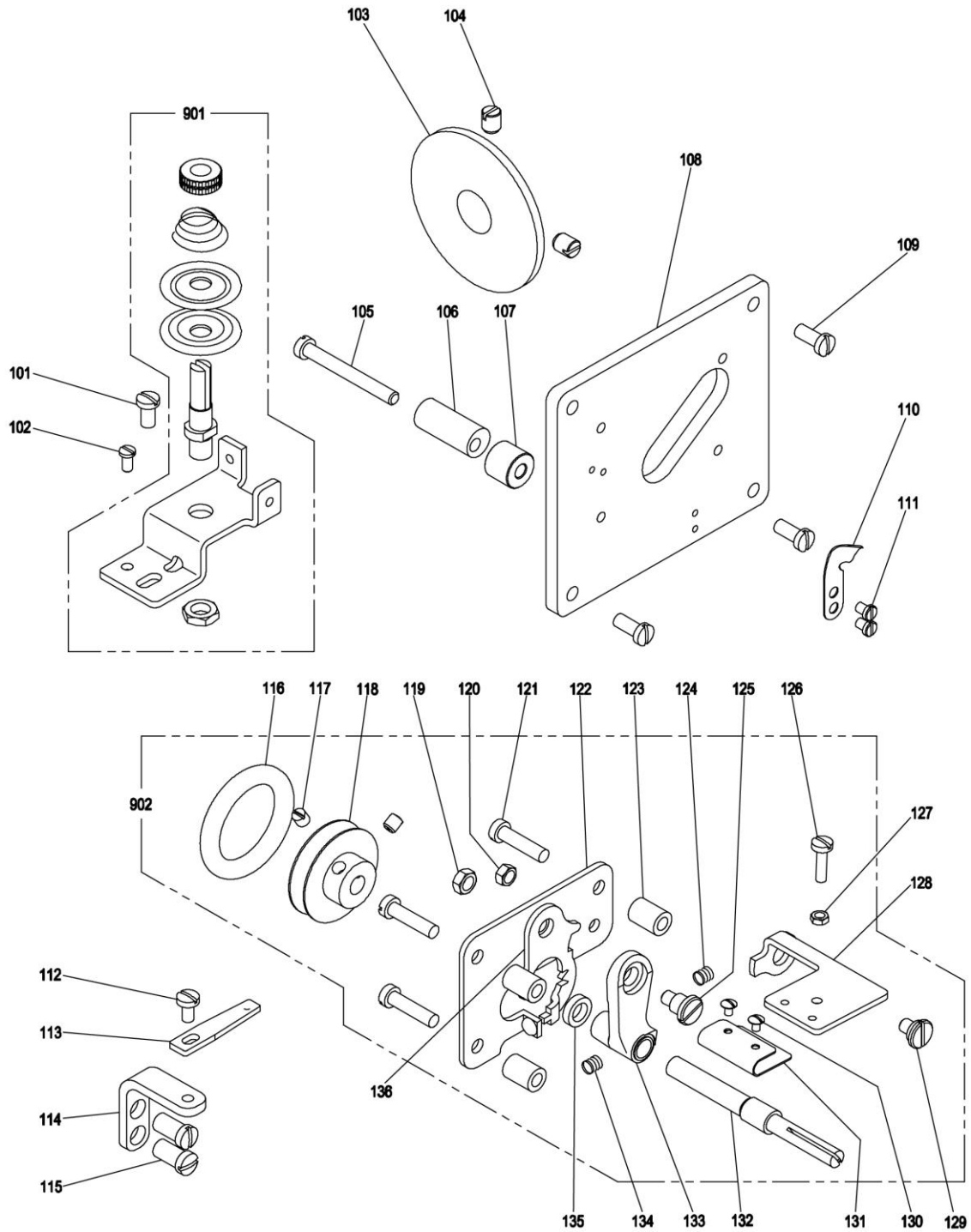
J Thread Guide Mechanism



[J] Thread guide mechanism

Fig No.	Name	Quantity	Remark
J101	Thread clamping nut	2	
J103	Thread clamping spring	2	
J104	Thread clamping plate	2	
J105	Thread clamping screw	1	
J106	Thread clamping base fixed screw	2	
J107	Spring plate fixed screw	1	
J108	Spring plate	1	
J109	Silicone oil box fixed screw	1	
J110	Silicone oil box	1	
J111	Threading hook nut	1	
J112	Threading hook	1	
J113	Silicone oil box cover	1	
J114	Silicone oil box pin	1	
J115	Thread hanging screw	1	
J116	Thread hanging	1	
J117	Thread clamping base	1	
J118	Thread sending plate	1	
J119	Thread sending plate fixed screw	1	
J120	E-type retaining ring 5	6	
J121	Connecting pin	2	
J122	Thread releasing connecting rod	1	
J123	Thread clamping fixed nut	1	
J124	Fixed screw	2	
J125	Bobbin thread tension presser	2	
J126	Felt	2	
J127	Bobbin thread tension wheel	1	
J128	Bobbin thread tension screw	1	
J129	Bobbin thread tension torsional spring	1	
J130	Bobbin thread tension locking nut	1	
J131	Bobbin thread tension picking spring	1	
J132	Bobbin thread tension ring	1	
J133	Torsional spring adjusting plate	1	
J134	Lower thread hanging	1	
J135	Adjusting plate fixed screw	1	
J136	Threading frame fixed screw	1	
J137	Upper releasing thread cylinder	1	
J138	Connector	1	
J901	Silicone oil box unit	1	
J902	Upper thread releasing cylinder unit	1	
J903	Threading frame unit	1	

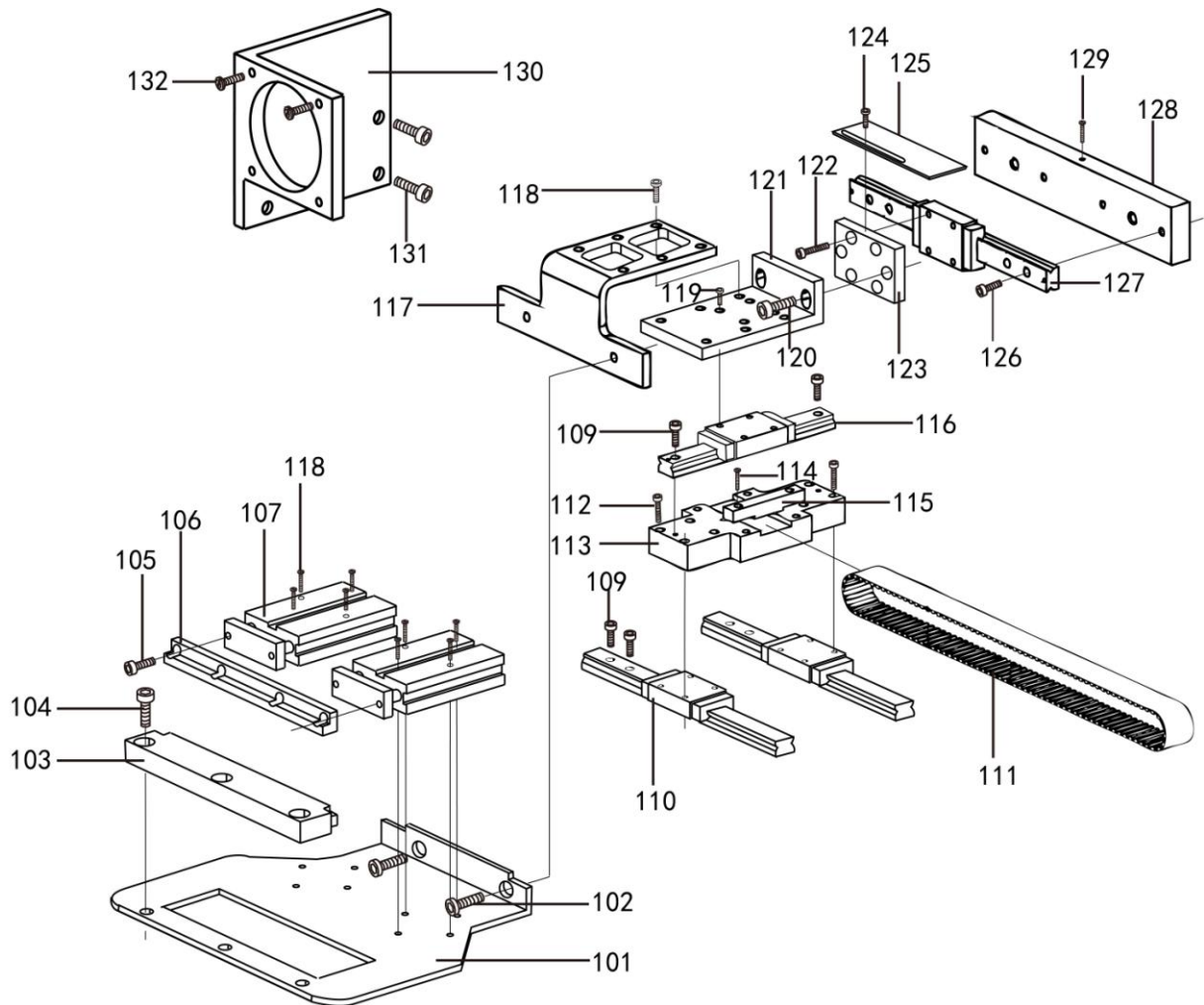
k Bobbin Winder Mechanism



[K] Bobbin winder mechanism

Fig No.	Name	Quantity	Remark
K101	Winding clamping base fixed screw	1	
K102	Winding clamping base locating screw	1	
K103	Friction wheel	1	
K104	Friction wheel fixed screw	2	
K105	Locating pin fixed screw	1	
K106	Locating pin	1	
K107	Spacer	1	
K108	Bobbin winder plate	1	
K109	Bobbin winder plate fixed screw	4	
K110	Thread trimmer	1	
K111	Thread trimmer fixed screw	2	
K112	Bobbin thread tension plate fixed screw	1	
K113	Winding Bobbin thread tension plate	1	
K114	Bobbin thread tension plate holder	1	
K115	Holder fixed screw	2	
K116	Winding wheel	1	
K117	Driving wheel fixed screw	3	
K118	Driving wheel	1	
K119	Winding frame fixed screw	1	
K120	Winding presser fixed screw	1	
K121	Winder holder fixed screw	3	
K122	Winder holder	1	
K123	Locating pin	3	
K124	Compression spring	1	
K125	Winding frame coupling screw	1	
K126	Springboard adjusting screw	1	
K127	Springboard adjusting nut	1	
K128	Winding pressing plate	1	
K129	Pressing plate screw	1	
K130	Springboard fixed screw	2	
K131	Full thread springboard	1	
K132	Winding shaft	1	
K133	Winding frame	1	
K134	Compression spring	1	
K135	Collar	1	
K136	Tension adjusting plate	1	
K901	Winding adjuster unit	1	
K138	Winder holder assembly	1	

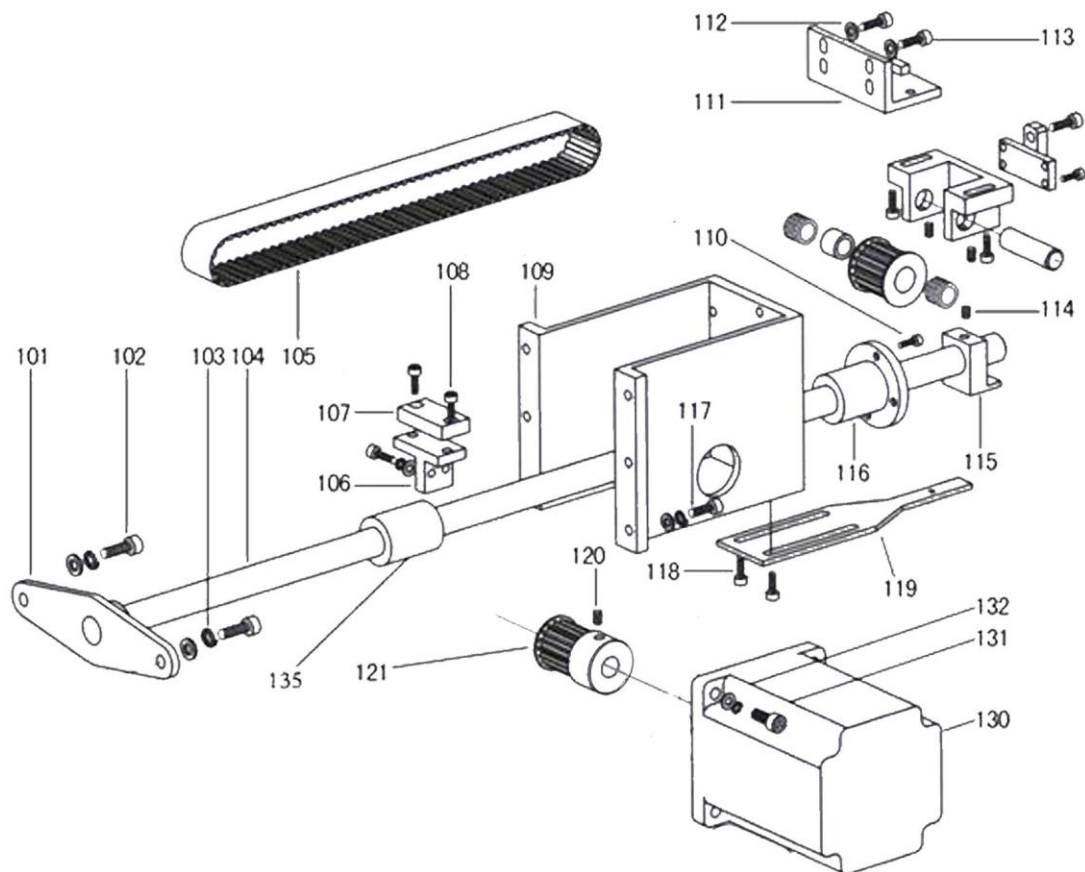
X-axis Feeding Mechanism of Climbing Rope



[L] X-axis Feeding Mechanism of Climbing Rope

Drawing No.	Name	Quantity	Remarks
L101	Lower tabouret	1	
L102	Lower tabouret screw M6X10	1	
L103	Positioning base	1	
L104	Positioning base fixed screw M8X10	3	
L105	Cylinder support plate screw M4	4	
L106	Cylinder support plate	1	
L107	Cylinder	2	
L108	Cylinder fixed screw M4X16	8	
L109	Guide rail fixed screw M3X14	10	
L110	Direction X guide rail	2	
L111	Direction X synchronous belt	1	
L112	Connecting plate fixed screw M3X10	8	
L113	Direction X connecting plate	1	
L114	Synchronous belt forcing screw M5X16	4	
L115	Synchronous belt pressing plate	2	
L116	Direction Y guide rail	1	
L117	Tabouret connecting frame	1	
L118	Tabouret connecting frame screw M6X14	6	
L119	Connecting angle plate fixed screw M3X10	4	
L120	Connecting angle plate screw M8X16	2	
L121	Main body's connecting angle plate	1	
L122	Direction X block plate screw M4X12	4	
L123	Direction X slide block plate	1	
L124	Direction X iron sensor screw M3X8	1	
L125	Direction X iron sensor	1	
L126	Direction Y guide rail mounting screw M4X14	4	
L127	Direction Y guide rail	1	
L128	Direction Y guide rail supporting plate	1	
L129	Direction Y sensor switch screw M3X16	1	
L130	Direction X motor base	1	
L131	Motor base fixed screw M8X20	4	
L132	Motor base mounting screw M5X16	4	

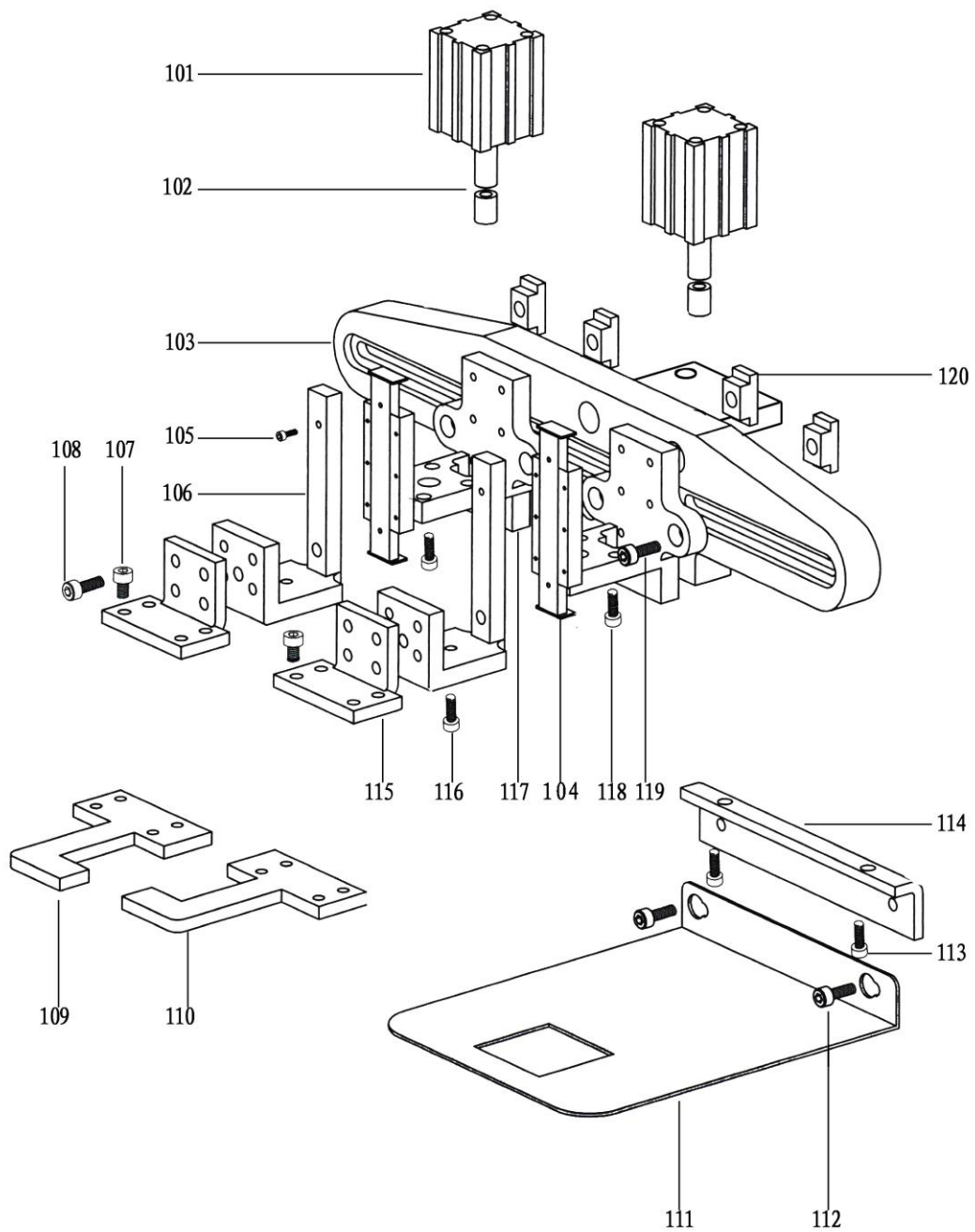
M Y-axis Feeding Mechanism of Climbing Rope



[M] Y-axis Feeding Mechanism of Climbing Rope

Fig No.	Name	Quantity	Remark
M 101	Y-axis T-shaped connecting plate	1	1
M 102	Connecting plate fixed screw	2	2
M 103	Spring gasket	2	2
M 104	Direction Y linear shaft	1	1
M 105	Direction Y synchronizing belt	1	1
M 106	Direction Y synchronizing belt fixed base	1	1
M 107	Direction Y synchronizing belt pressing plate screw	2	2
M 108	Direction Y synchronizing belt pressing plate	1	1
M 109	Y-axis support	1	1
M 110	Direction Y rear bearing fastening screw	3	3
M 111	Direction Y reactive wheel support	1	1
M 112	Spring gasket	2	2
M 113	Support fixed screw	2	2
M 114	Direction Y inducting iron fixed screw	1	1
M 115	Direction Y inducting iron	1	1
M 116	Direction Y rear bearing	1	1
M 117	Y-axis support fixed screw	6	6
M 118	Inductor adjusting frame fixed screw	2	2
M 119	Inductor adjusting frame	1	1
M 120	Direction Y active synchronizing wheel fixed screw	2	2
M 121	Direction Y active synchronizing wheel	1	1
M 122	Direction Y motor bracket	1	1
M 123	Direction Y motor bracket fixed screw	4	4
M 130	Direction Y motor	1	1
M 131	Direction Y motor fixed screw	4	4
M 132	Spring gasket	4	4
M 135	Direction Y front bearing	1	1

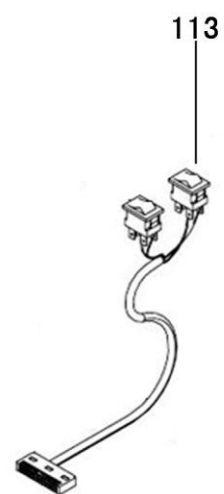
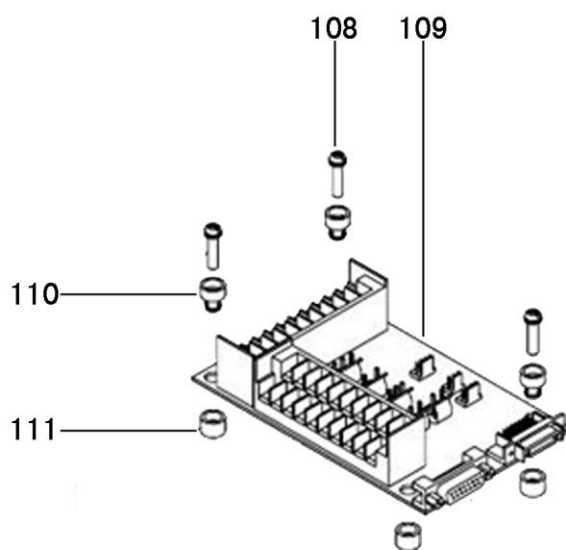
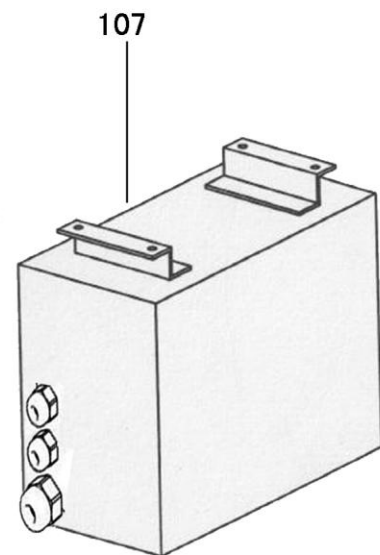
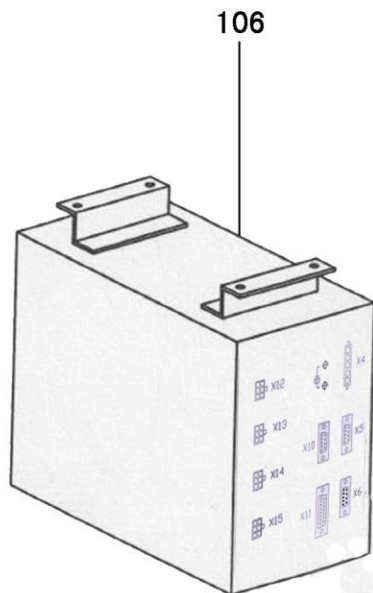
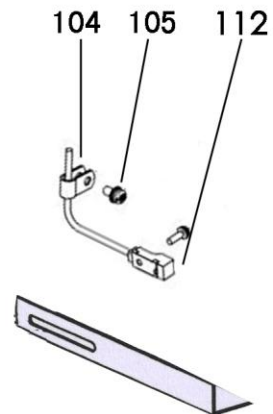
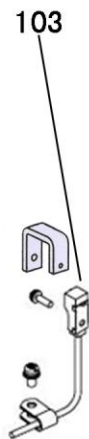
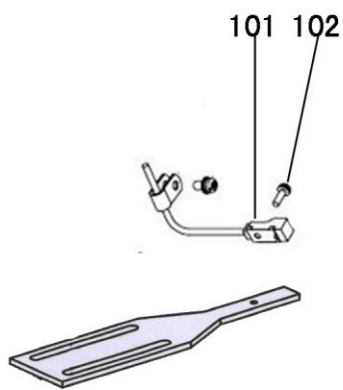
N Material-press Plate Mechanism (Split-type)



[N] Material-press plate mechanism (split-type)

Fig No.	Name	Quantity	Remark
N101	Material-press cylinder	2	
N102	Gasket	2	
N103	Cylinder connecting horizontal lever	1	
N104	Direction Z guide rail	1	
N105	Direction Z guide rail fixed screw	16	
N106	Upper tabouret lifting base	1	
N107	Upper tabouret coupling screw	8	
N108	Coupling screw	8	
N109	Upper tabouret (L)	1	
N110	Upper tabouret (R)	1	
N111	Lower tabouret	1	
N112	Lower tabouret fixed screw	2	
N113	Connecting plate fixed screw	2	
N114	Lower tabouret connecting plate	1	
N115	Upper tabouret connecting base	2	
N116	Direction Z cylinder coupling screw	2	
N117	Direction Z guide rail fixed base	2	
N118	Direction Z cylinder fixed screw	8	
N119	Fixed base fastening screw	4	
N120	Locking slider	4	

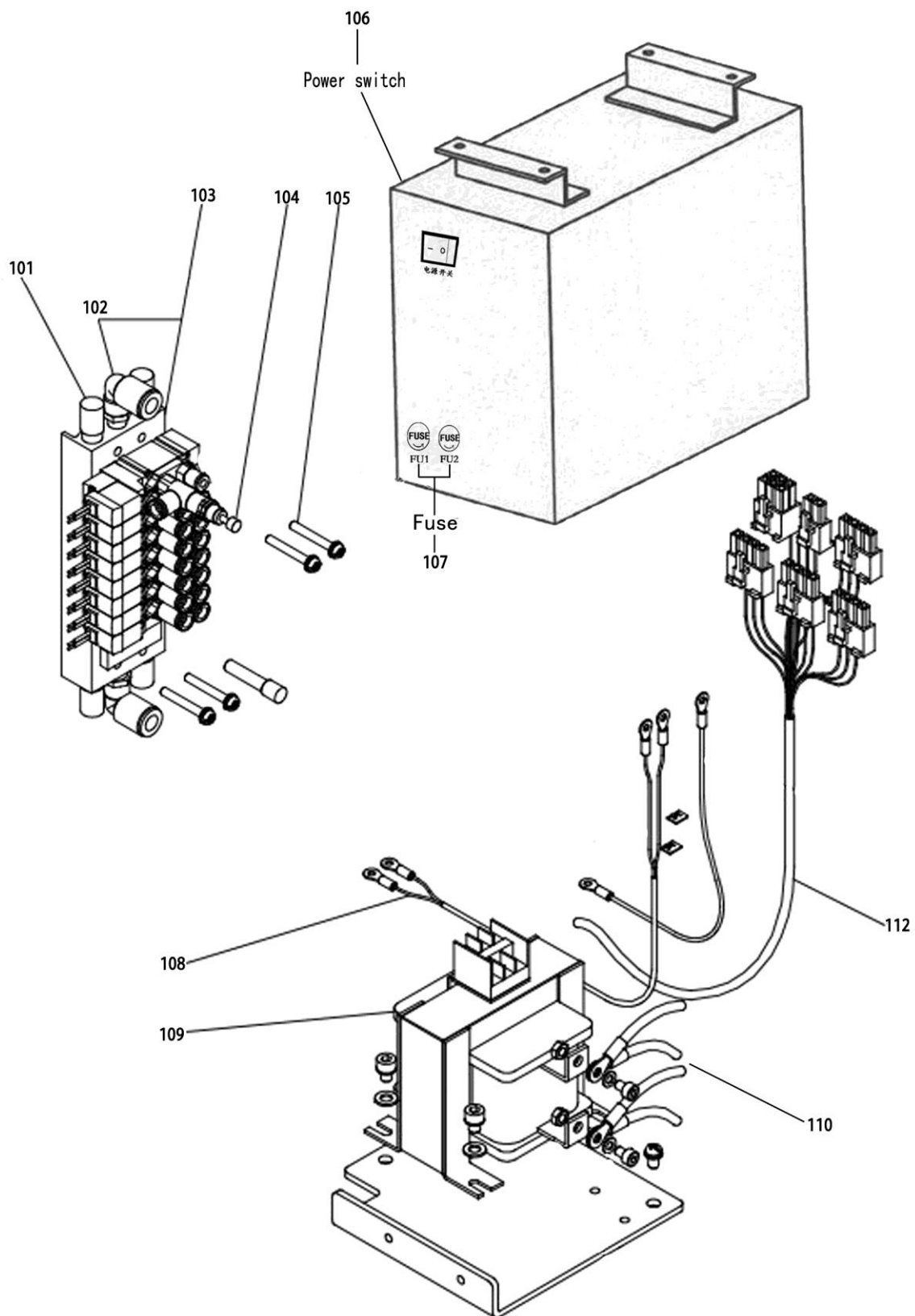
Cable and Tube Mechanism (1)



[Q] Cable and tube mechanism (1)

Fig No.	Name	Quantity	Remark
Q101	Y-axis inductor	1	
Q102	Inductor fixed screw	3	
Q103	Z-axis inductor	1	
Q104	Inductor connecting cable fixed cover	3	
Q105	Fixed cover screw	3	
Q106	System control electric-box	1	
Q107	Electric trimming control box	1	
Q108	Circuit board fixed screw	4	
Q109	Circuit board	1	
Q110	Nylon cover	4	
Q111	Nylon washer	4	
Q112	X-axis inductor	1	
Q113	Change-over switch	1	

Cable and Tube Mechanism (2)



[R] Cable and tube mechanism (2)

Fig No.	Name	Quantity	Remark
R101	Muffler	2	
R102	L-shape connector	2	
R103	Solenoid valve assembly	1	
R104	Speed regulating joint	1	
R105	Solenoid valve assembly fixed screw	4	
R106	Trimming power switch	1	
R107	Fuse	2	
R108	Connecting cable assembly	2	
R109	Transformer	1	
R110	Trimming power cable	4	
R111	Connector assembly	1	

 Accessories

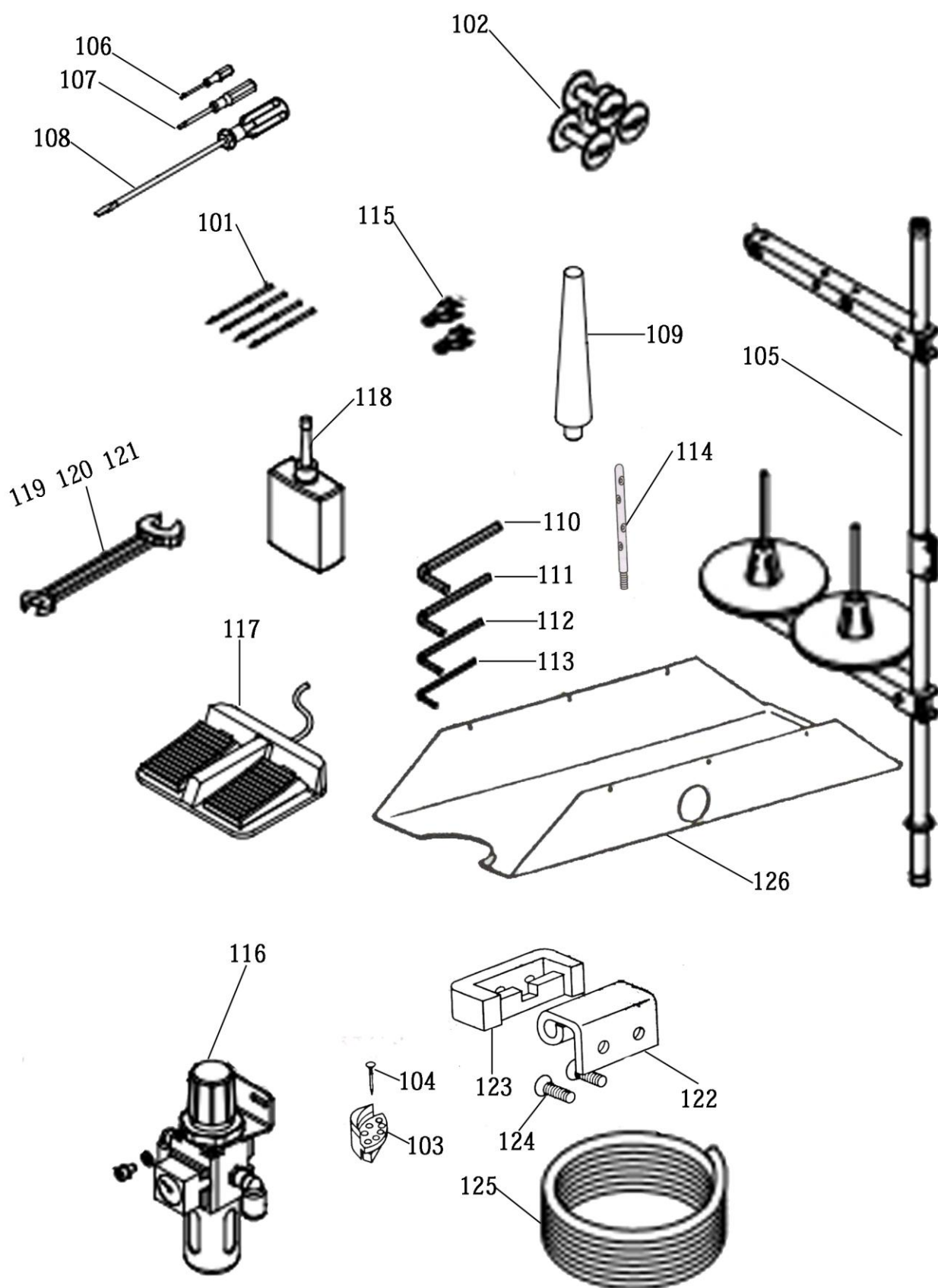


Fig No.	Name	Quantity	Remark
S101	Needle DYG3	4	
S102	Bobbin	3	
S103	Anti-vibration pad	4	
S104	Oil receiver screw	17	
S105	Thread stand	1	
S106	Screw driver (small)	1	
S107	Screw driver (middle)	1	
S108	Screw driver (large)	1	
S109	Crosstie	1	
S110	Hexagon wrench 6	1	
S111	Hexagon wrench 5	1	
S112	Hexagon wrench 4	1	
S113	Hexagon wrench 3	1	
S114	Thread pillar	1	
S115	Trimming blade	2	
S116	Filter pressure regulating valve	1	
S117	Foot switch	1	
S118	Oil bottle	1	
S119	Spanner	1	
S120	Spanner	1	
S121	Spanner	1	
S122	Hinge	2	
S123	Hinge cover	2	
S124	Hinge screw	4	
S125	Air tube	1	