

PARTS BOOK

Small-Head D-Series

D-WD904-75

PME-110725

Notice

1. 본 책자는Parts Book으로 제작되었으므로 매뉴얼로 사용 불가합니다.
2. 조에 속한 파트는 개별 조립 시 제품의 파손 또는 자수 불량일 수 있어 해당 파트에 대한 주문 시에는 조 품목으로만 구입이 가능합니다.
3. 당사의 Part Book은 다음과 같은 순서로 분류되어 있으니 제품을 구입한 소비자께서는 다음과 같은 순서로 제품을 검색하여 주십시오.

- 1) Machine Layout
- 2) Section
- 3) Part List

※소모성 부품은 자수 기계의 보증 기간과 상관 없음.

1. This is a parts book. It cannot be used as a manual.
2. The parts classified as ass'y items may cause damage to the machine or bad embroidery when they are separately assembled.
Hence, when they are ordered, they can be purchased as ass'y items only.
3. The Part Book is classified as below and users could search products in the following order.

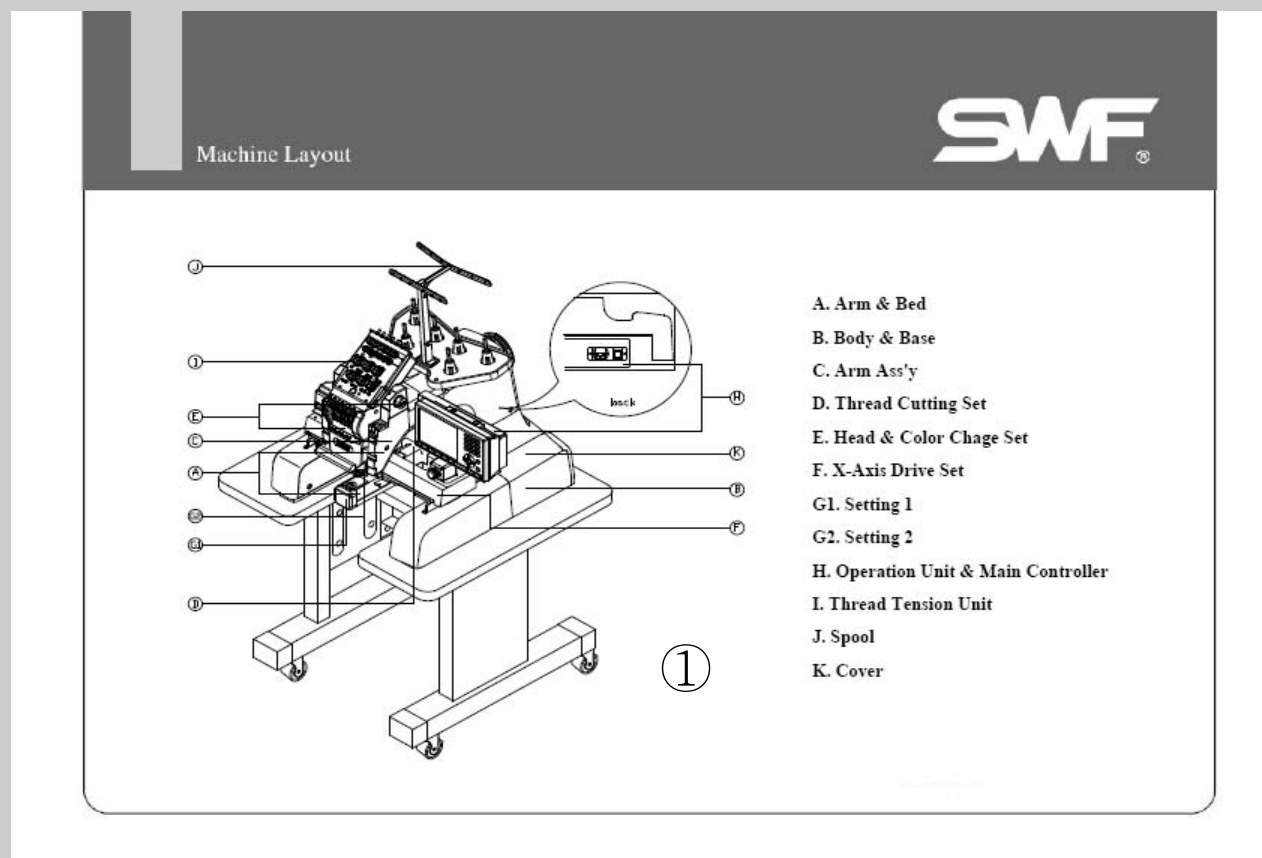
- 1) Machine Layout
- 2) Section
- 3) Part List

※Consumable parts shall not be guaranteed even in warranty period.

Information

A. Structure of Part Book

1. Machine Layout

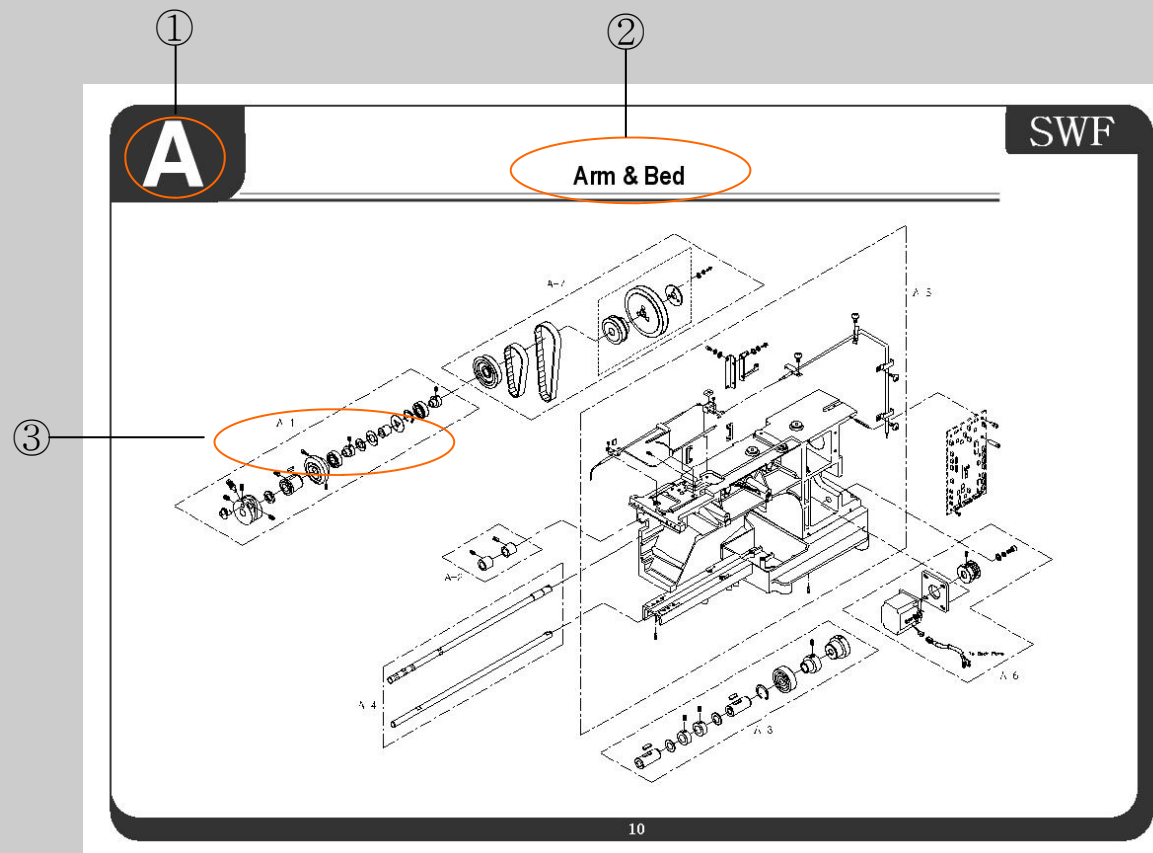


Information

A. Structure of Part Book

2. Section

- ① : Index Number
- ② : Index Group
- ③ : Related Parts
Ex) A-1, A-2, A-3...



Information

A. Structure of Part Book

3. Part List

①

A-1

②

⑫

Note

③	④	⑤	⑥	⑦	⑧	⑨	⑩
Ref No	Part No	Part Name	Applied Period	Interchangeability	Hardware	Qty	Remark
A-1-1	0101SCM-T900	Twice-up Lever Driving Cam	Oct-08-07 ~ Oct-08-07			1	
A-1-2	0101SCM-T900	Twice-up Lever Driving Cam	Oct-08-07 ~	X		1	
A-1-3	0101SCM-T121	Cam Screw (8/32x28L=17)				1	
A-1-4	0101SCM-T121	Screw (1/8x28L=7.5)			O	1	
A-1-5	0101SCM-T121	Hex. Socket Set Screw (1/4" 3x40 L=4.5)				1	
A-1-6	0102BHR-A001	Washer				2	
A-1-7	0102BHR-A001	Washer				1	
A-1-8	0102BHR-T900	Needle Bar Crank				1	
A-1-9	0101SCM-T121	Upper Shaft Bushing (H)				1	
A-1-10	0101SCM-T121	Screw (1/8x28 L=14)			O	3	
A-1-11	0101SCM-T121	Pelt				1	
A-1-12	0101SCM-T121	Presser Foot Driving Cam				1	
A-1-13	0401ZAP-A001	Screw (1/8x28)			O	3	
A-1-14	0102BHR-A001	Screw (M4xL20)			O	1	
A-1-15	0102BHR-A001	Rearizer (600422)				1	
A-1-16	0102BHR-A001	Rearizer Collar				2	
A-1-17	0401ZAP-A001	Screw (1/8x28)			O	3	
A-1-18	WS-0001BR-00	Washer				1	
A-1-19	CL-000097-00	Code Wheel				1	
A-1-20	CL-000097-00	Collar				1	
A-1-21	NP-016534-01	Residual Plate				1	
A-1-22	0101SCM-T121	C-Ridge (H47)			O	1	
A-1-23	0101SCM-T121	Rearizer (600422)				1	

11

Note) * : Checks the timing of application.

① Index Number
Ex) A-1, A-2...

② Part View

Information

A. Structure of Part Book

③ Ref. No

④ Part No

Ex)

Category	CODE	Remark
Old part	16009SC-4113	
New part	AS -000000-00	Set parts (Set 구성품)
	GP -000000-00	Instrumental parts (기구적 파트)
	EP -000000-00	Electrical parts (전기적 파트)

⑤ Parts Name : 파트들의 고유 품명을 표기 : Refers to unique names of parts

⑥ Applied Period

Ex1) 2007년2월10일 적용, 2008년7월10일 폐기
-> Feb.10.07 ~ Jul.10.08

Ex1) Applied from Feb. 10, 2007, To on July 10, 2008
-> Feb.10.07 ~ Jul.10.08

Ex2) 2007년 2월 10일 부터 파트북 발행일 까지 적용
-> Feb.10.07 ~

Ex2) Applied from Feb. 10, 2007
-> Feb.10.07 ~

Information

A. Structure of Part Book

⑦ Interchangeability

O : 구 부품을 신 부품으로 교환 가능

신 부품을 구 부품으로 교환 가능

: It is interchangeable between old and new part.

X : 구 부품을 신 부품으로 교환 불가능

신 부품을 구 부품으로 교환 불가능

: It is not interchangeable between old and new part.

△ : 구 부품을 신 부품으로 교환 가능

신 부품을 구 부품으로 교환 불가능

: It is interchangeable by new part only.

Interchangeability		
O	X	△
Old -> New: OK New -> Old : OK	Old -> New: NO New -> Old : No	Old -> New: OK New -> Old : No

⑧ Hardware : 시중에서 구매 할 수 있는 부품

: Parts that can be purchased in the market

⑨ Q'ty : 사용 파트의 수량을 표기

: Quantity of part

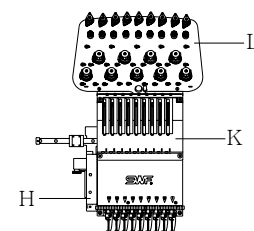
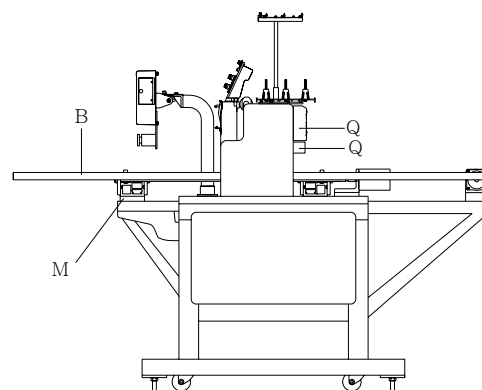
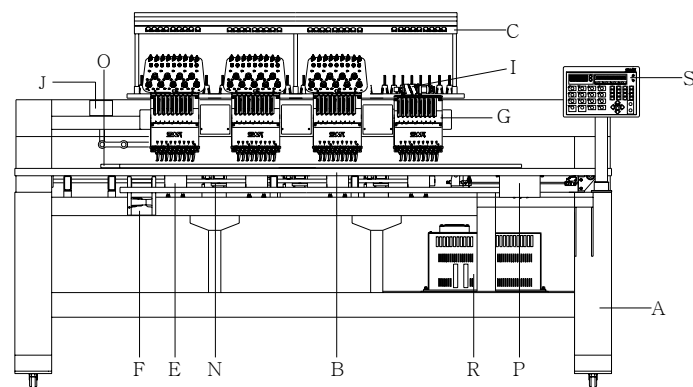
⑩ Remark

⑪ Index Number

⑫ 조 및 프레스품 ...

Set & Press Part ...

Machine Layout



- A. Machine Body Ass'y
- B. Work-Table
- C. Thread Stand
- D. Main Drive System
- E. Bed
- F. Thread Cutting Drive System
- G. Encoder Set
- H. Arm
- H1. Arm (option)
- I. Color Change System
- J. Wiper Set
- K. Head
- L. Thread Tension Unit
- M. X-Axis Drive System
- N. Y-Axis Drive System
- O. Frame
- P. Bar Switch
- Q. Sub Control Unit & Lamp Unit
- R. Main Controller
- S. Operation Unit
- T. Bobin Winder

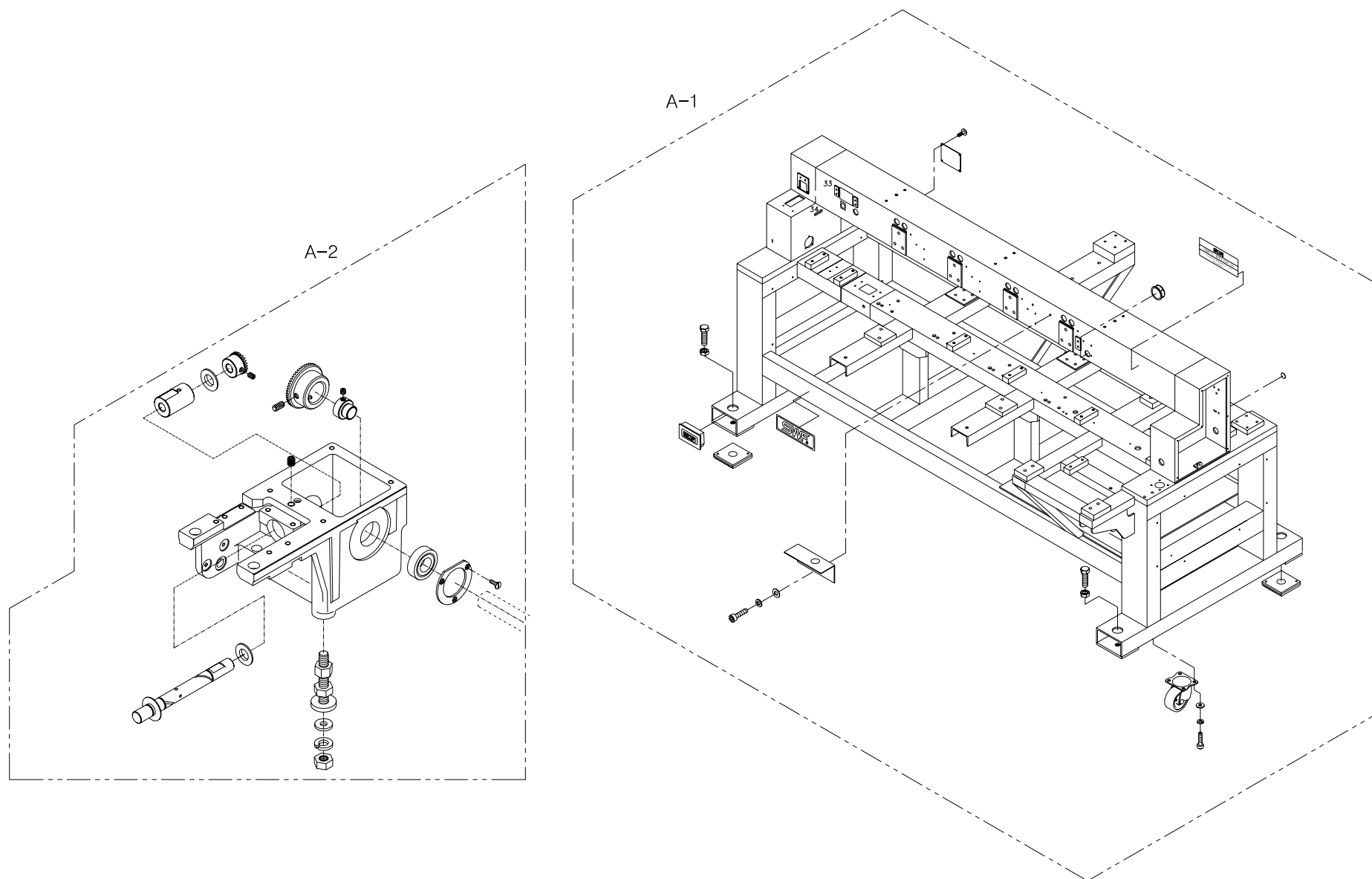


CONTENT

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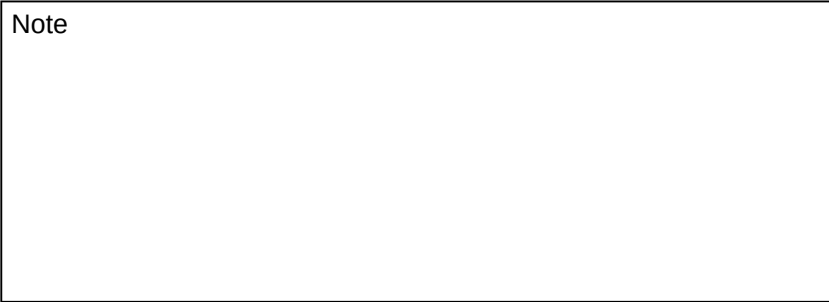
Beam Body & Bed



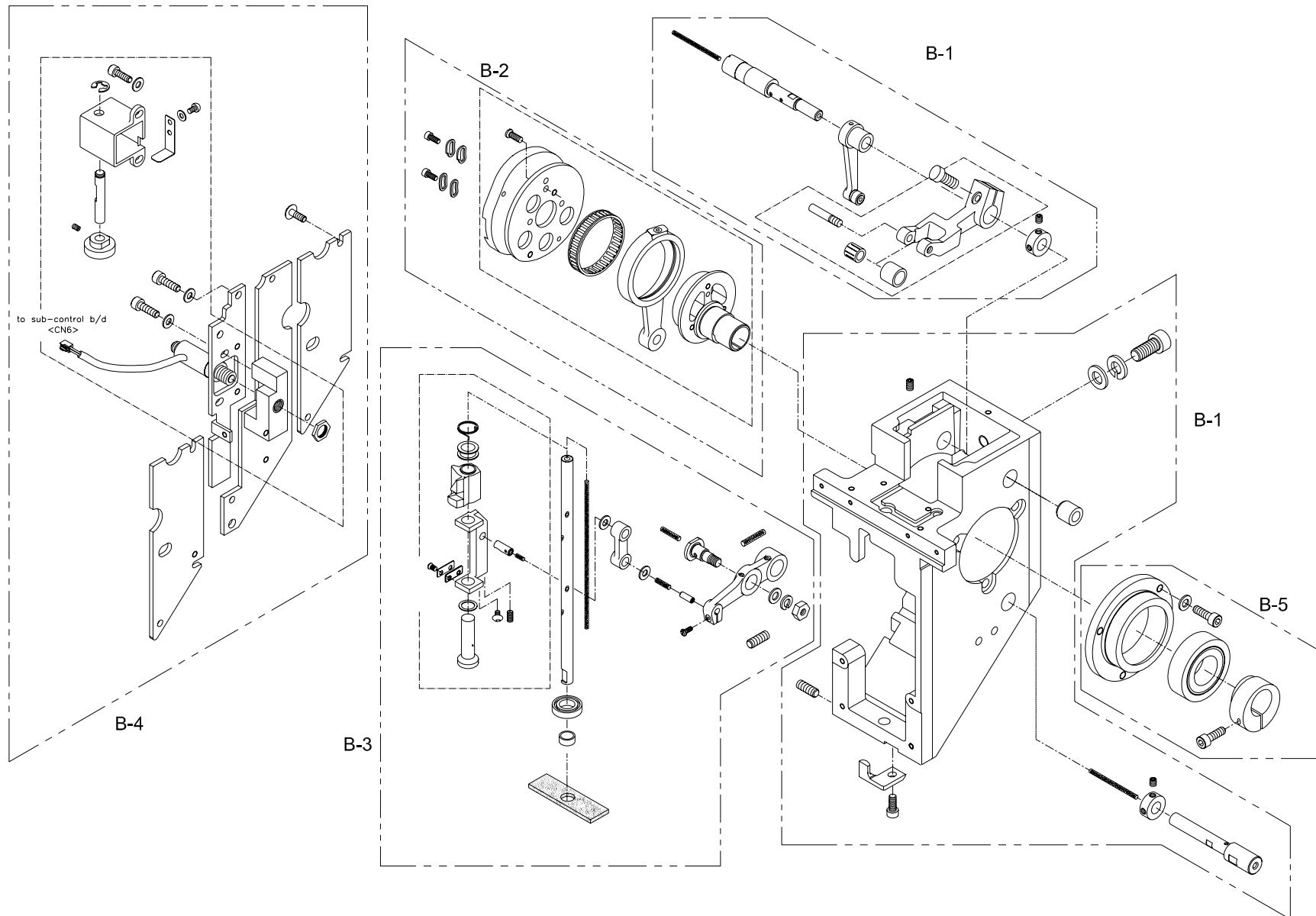
A

11

A

12

Arm 1



B-1

This exploded view diagram illustrates the assembly of a mechanical unit, likely a door lock or latch. The components are numbered as follows:

- B-1-1**: Main rectangular housing.
- B-1-2**: Small circular pin or bush.
- B-1-3**: Small circular pin or bush.
- B-1-4**: Small circular pin or bush.
- B-1-5**: Small rectangular plate or spacer.
- B-1-6**: Small circular pin or bush.
- B-1-7**: Small circular pin or bush.
- B-1-8**: Small circular pin or bush.
- B-1-9**: Small circular pin or bush.
- B-1-10**: Small circular pin or bush.
- B-1-11**: Small circular pin or bush.
- B-1-12**: Small circular pin or bush.
- B-1-13**: Small circular pin or bush.
- B-1-14**: Small circular pin or bush.
- B-1-15**: Small circular pin or bush.
- B-1-16**: Small circular pin or bush.
- B-1-17**: Small circular pin or bush.
- B-1-18**: Small circular pin or bush.
- B-1-19**: Small circular pin or bush.
- B-1-20**: Small circular pin or bush.
- B-1-21**: Small circular pin or bush.
- B-1-22**: Small rectangular plate or spacer.
- B-1-23**: Small rectangular plate or spacer.
- B-1-24**: Small rectangular plate or spacer.

The diagram shows the assembly sequence from the main housing (B-1-1) to the final components (B-1-24). Dashed lines indicate the alignment and assembly path for each part.

Note

B

B-2

This diagram illustrates the exploded view of the B-2 assembly. The components are labeled as follows:

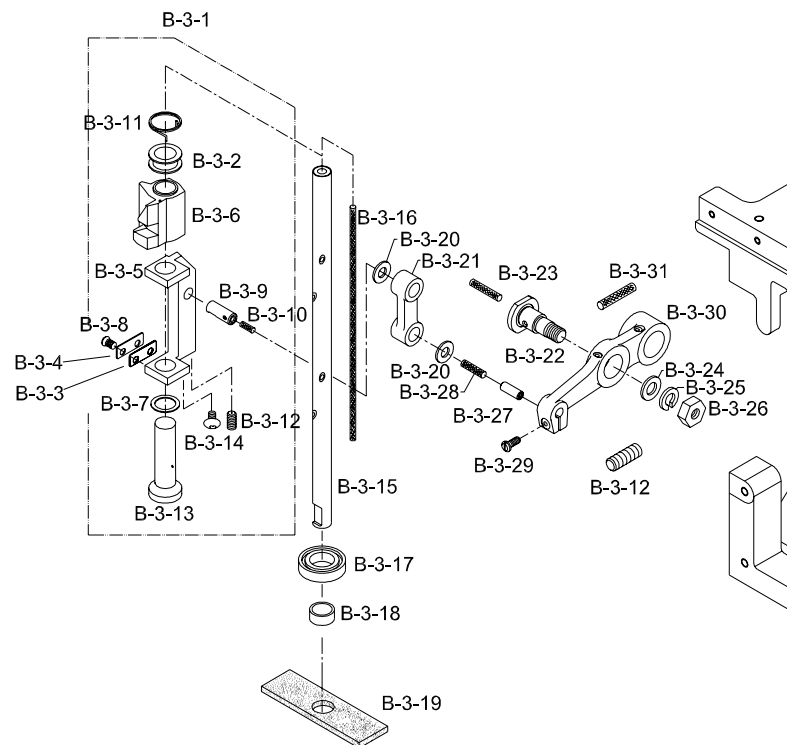
- B-2-1**: The main rectangular housing or frame.
- B-2-2**: A cylindrical component with a flange, shown being inserted into the housing.
- B-2-3**: A ring with a serrated outer edge, positioned between the housing and the cylindrical component.
- B-2-4**: A ring with a flange, positioned between the housing and the serrated ring.
- B-2-5**: A circular plate with multiple holes, shown being inserted into the housing.
- B-2-6**: A small screw or fastener used to secure the circular plate.
- B-2-7**: A small screw or fastener used to secure the circular plate.
- B-2-8**: A small ring or washer.
- B-2-9**: A small ring or washer.
- B-2-10**: A small screw or fastener used to secure the ring/washer.

The diagram shows the assembly being installed into a larger structure, with dashed lines indicating the alignment and fit of the components.

Note

B

B-3



Note

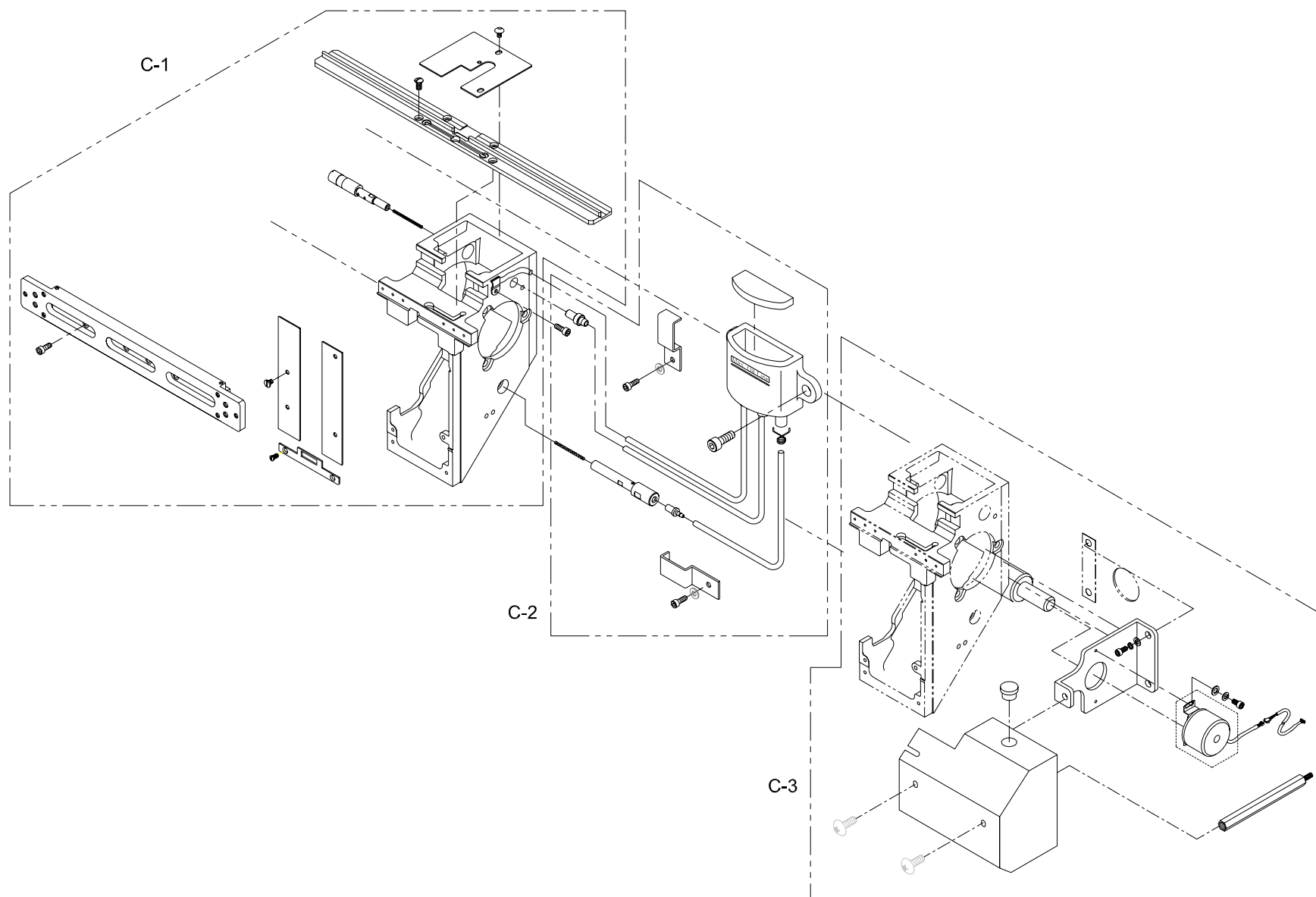
Ref.No	Part No.	Part Name	Applied Period	Interchangeability	Hardware	Q'ty	Remark
B-3-1	03005BM-B001	Needle Bar Reciprocator Set				4	
B-3-2	03046CW-B001	Jump Spring Guide				4	
B-3-3	03041PR-B001	Reciprocator Stopper				4	
B-3-4	03039PR-B001	Stopper Bracket				4	
B-3-5	03036CL-B001	Needle Driving Shaft Driver				4	
B-3-6	GP-013756-00	Needle Bar Reciprocator	Dec.14.05			4	
B-3-7	03048SW-A001	Reciprocator Washer				4	
B-3-8	03040SC-A001	Stopper Bracket Screw				8	
B-3-9	03033CW-A001	Driver Pin				4	
B-3-10	-	Wick				4	
B-3-11	03045SP-B001	Jump Spring				4	
B-3-12	03020SC-A001	Drive Pin Screw 11/64,N40,L8			○	20	
B-3-13	03304700A000	Needle Bar Driving Shaft Bush				4	
B-3-14	03006MC-3123	Truss Screw (M3*L6)			○	4	
B-3-15	03204100A000	NEEDLE BAR DRIVING SHAFT				4	
B-3-16	-	Wick				4	
B-3-17	03051BR-A001	Ball Bearing 689 (Ntn)			○	4	
B-3-18	03004400A000	Needle Bar Drive Bearing Bush				4	
B-3-19	03053SF-A001	Felt "B"				4	
B-3-20	03034SW-A001	Reciprocator Washer				8	
B-3-21	03003200A000	Needle Bar Drive Rink				4	
B-3-22	03023SC-A001	Connecting Rod Stud				4	
B-3-23	-	Wick				4	
B-3-24	03025SW-1211	Washer (@6)			○	4	
B-3-25	03026SW-9115	Spring Washer (@6)			○	4	
B-3-26	03027SN-A001	Stud Nut			○	4	
B-3-27	03303300H000	Lever Pin				4	
B-3-28	-	Wick				4	
B-3-29	02015SC-7113	Driving Lever Pin Screw				4	
B-3-30	03303200H000	Needle Bar Drive Lever				4	
B-3-31	-	Wick				4	

B

Note

B

Arm 2



C-1

This exploded view diagram illustrates the assembly of the C-1 unit. The components are labeled as follows:

- C-1-1**: A long, narrow base plate with multiple mounting holes and slots.
- C-1-2**: A small screw used to secure the base plate.
- C-1-3**: A long, narrow vertical plate with mounting holes.
- C-1-4**: A small screw used to secure the vertical plate.
- C-1-5**: A small L-shaped bracket.
- C-1-6**: A small screw used to secure the L-shaped bracket.
- C-1-7**: A small rectangular plate.
- C-1-8**: A small rectangular plate.
- C-1-9**: A small screw used to secure the rectangular plates.
- C-1-10**: A small rectangular plate with a slot.
- C-1-11**: A small screw used to secure the rectangular plate.

The diagram shows the base plate (C-1-1) being secured with screws (C-1-2). The vertical plate (C-1-3) is then attached to the base plate using screws (C-1-4). The L-shaped bracket (C-1-5) is secured with a screw (C-1-6). The rectangular plates (C-1-7 and C-1-8) are secured with screws (C-1-9). The rectangular plate (C-1-10) is secured with a screw (C-1-11).

Note



This diagram illustrates the exploded view of the C-2 control unit assembly. The main components shown include:

- C-2-1**: The main control unit housing, featuring a label that reads "Model C-2-1".
- C-2-2**: A curved top cover for the control unit.
- C-2-3**: A threaded plug or cap used to secure the bottom of the control unit.
- C-2-4**: A long, flexible cable or hose that connects the control unit to the main unit.
- C-2-5**: A small, cylindrical component, likely a sensor or actuator, mounted on the main unit.
- C-2-6**: A small, rectangular component, possibly a switch or indicator, mounted on the main unit.
- C-2-7**: A small, rectangular component, possibly a switch or indicator, mounted on the main unit.
- C-2-8**: A small, cylindrical component, likely a sensor or actuator, mounted on the control unit.

The diagram shows the main unit on the left and the control unit on the right, with various components labeled and their assembly positions indicated by dashed lines.

Note

[illegible]

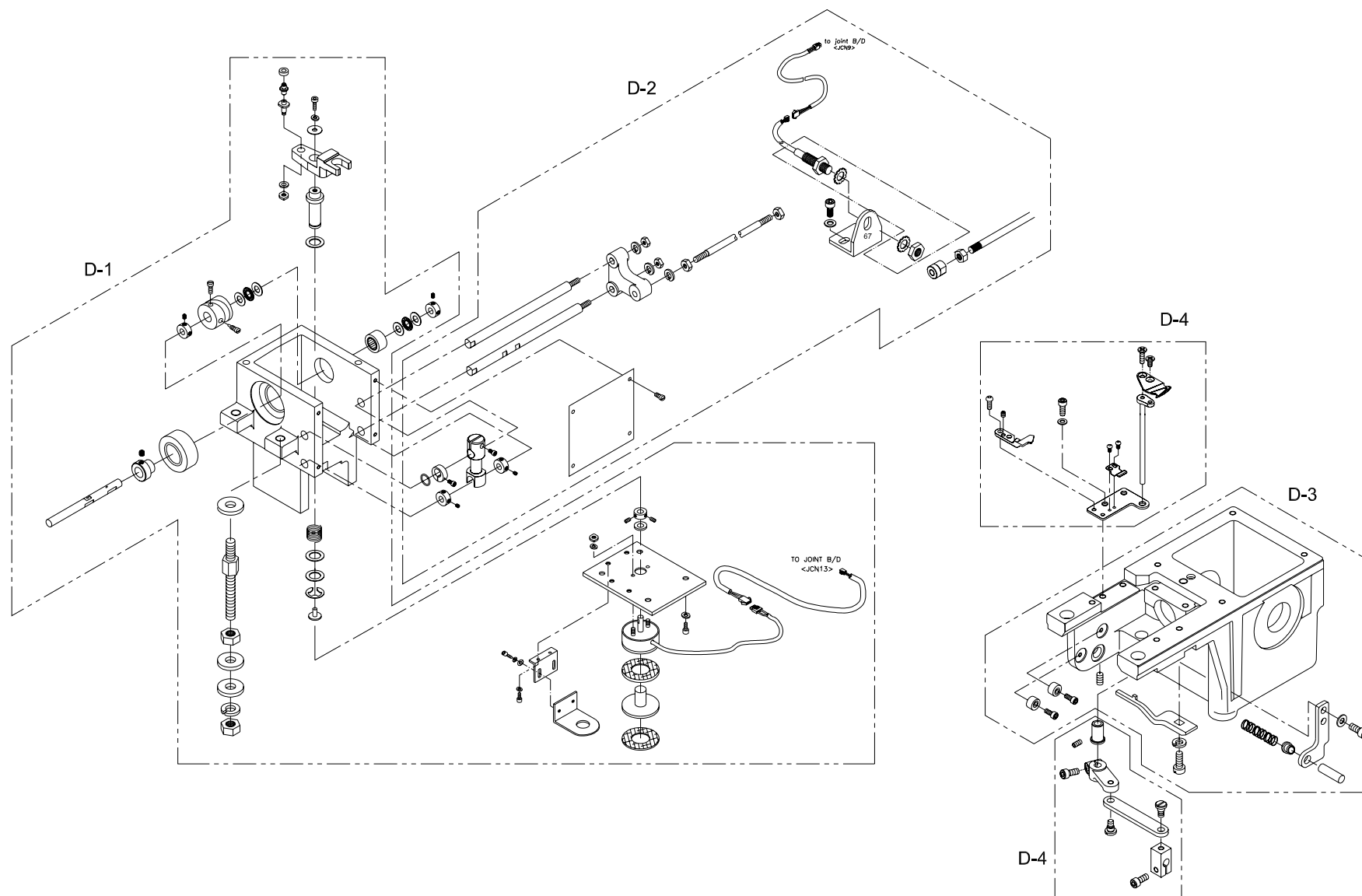
This exploded view diagram illustrates the assembly of the C-3-12 component. The main assembly is shown at the top left, with dashed lines indicating the placement of various parts. The components are labeled as follows:

- C-3-1**: A cylindrical component with a flange, shown in a dashed box.
- C-3-2**: A small screw or pin.
- C-3-3**: A small screw or pin.
- C-3-4**: A small screw or pin.
- C-3-5**: A bracket or support arm.
- C-3-6**: A small screw or pin.
- C-3-7**: A small screw or pin.
- C-3-8**: A small screw or pin.
- C-3-9**: Two screws used to secure the base plate.
- C-3-10**: A long, thin rod or pin.
- C-3-11**: A small cap or plug.
- C-3-12**: The main assembly, shown in a dashed box.
- C-3-13**: A cable or wire with a connector.

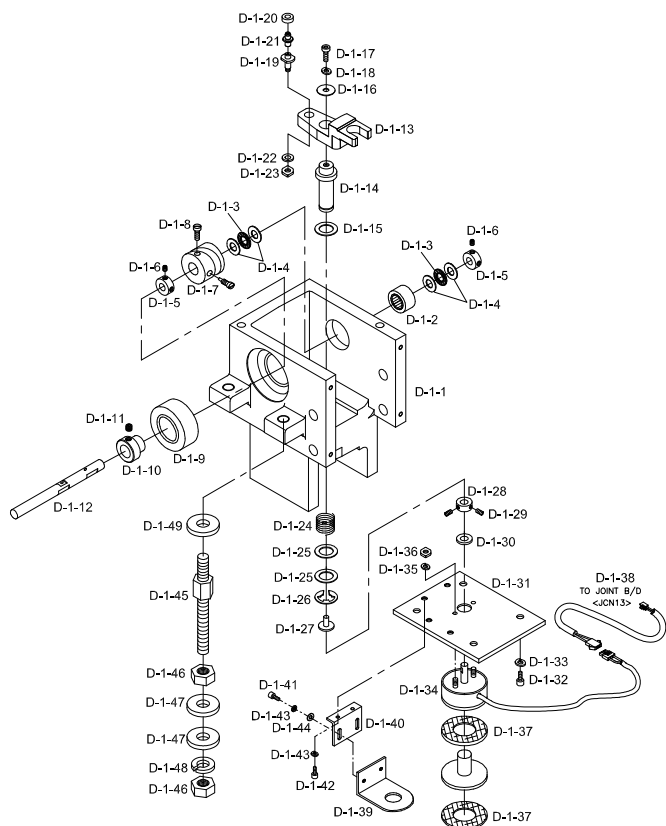
The diagram shows the assembly sequence, with parts being added to the main assembly in a specific order. The main assembly is shown in a dashed box, and the parts are labeled with their respective part numbers.

C

Thread Cutting Set



D-1



Note

D-1,D-2 : 03700010E000 (Mes Cam Driving Box Ass'Y)

Ref.No	Part No.	Part Name	Applied Period	Interchangeability	Hardware	Q'ty	Remark
D-1-1	03700100E000	Mes Cam Driving Box				1	
D-1-2	04027BR-A001	Needle Bearing (Hmk1515)			○	1	
D-1-3	08027BR-A001	Thrust Bearing (Ntb 1528)			○	2	
D-1-4	08028BR-A001	Thrust Washer (As 1528)			○	4	
D-1-5	03704900A000	Cam Shaft Collar				2	
D-1-6	04016AF-A001	Cam Collar Screw			○	4	
D-1-7	GP-007345-00	MES CAM	Jan.27.05	X		1	
D-1-8	08038SC-UI12	Hex.Socket Set Screw			○	3	
D-1-9	01029BR-A001	Ball Bearing (6004Zz)			○	1	
D-1-10	14058CW-A001	Collar "A"				1	
D-1-11	04012AF-A001	Hook Shaft Bush Screw				2	
D-1-12	08036SF-B001	Mes Cam Shaft				1	
D-1-13	GP-012734-00	Mes Cam Lever	Oct.17.05	X		1	
D-1-14	08047CW-A001	Lever Support Pin				1	
D-1-15	08044RB-B001	Cushion Washer (T2)				2	
D-1-16	WS-000127-00	Lever Washer	Oct.17.05	X		1	
D-1-17	02028SW-9115	Spring Washer (@4)			○	1	
D-1-18	02015SC-7113	Hex.Socket Bolt (M4*L10)			○	1	
D-1-19	PN-000722-00	CAM COLLAR PIN (L=19)	Jan,18,09 ~	X		1	
D-1-20	07030AF-UK01	Roller				1	
D-1-21	07026CW-UK01	Mes Cam Roller Shaft				1	
D-1-22	08057SW-1111	Washer (@6)			○	1	
D-1-23	13042SN-1111	Hex.Nut (M6*T5-R)			○	1	
D-1-24	08048SP-A001	Lever Return Spring				1	
D-1-25	08050SW-A001	Lever Stopper Pin Washer				2	
D-1-26	08051SR-4013	E-Ring (@12)			○	1	
D-1-27	08052RB-A001	Lever Support Pin Cushion				1	
D-1-28	03707300A000	Solenoid Collar				1	
D-1-29	08113SC-A001	Collar Screw				2	
D-1-30	08072RB-A001	Cushion Rubber				1	
D-1-31	08072PR-B001	Solenoid Base Plate				1	
D-1-32	03016SC-4113	Hex. Socket Bolt (M5*L15)			○	4	
D-1-33	18048SW-3115	Spring Washer (5@)			○	4	
D-1-34	08068EL-A001	Thread Trimming Solenoid Ass'				1	
D-1-35	18048SW-3115	Spring Washer (5@)			○	2	
D-1-36	12010SN-1211	Hex. Nut (M5-No3)			○	2	
D-1-37	08071SF-A001	Solenoid Cushion				3	

D-1

D-1-20
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D-1-31
D-1-38
TO JOINT B/D
<JCN13>
D-1-34
D-1-33
D-1-32
D-1-37
D-1-41
D-1-43
D-1-44
D-1-43
D-1-42
D-1-39
D-1-46
D-1-47
D-1-47
D-1-48
D-1-46

D-1,D-2 : 03700010E000 (Mes Cam Driving Box Ass'Y)

D

D-2

to joint B/D
<JOH>

D-2-23

D-2-17

D-2-19
D-2-20

D-2-18

D-2-21

D-2-22

D-2-11

D-2-10

D-2-12

D-2-15
D-2-14

D-2-16

D-2-13
D-2-15
D-2-14

D-2-9

D-2-8

D-2-7
D-2-6

D-2-1
D-2-4
D-2-5

D-2-3
D-2-2
D-2-6

D-1,D-2 : 03700010E000 (Mes Cam Driving Box Ass'Y)

D

D-3

This exploded view diagram illustrates the assembly of the D-3 component. The main structure is a rectangular frame with a central vertical support. The assembly includes the following parts and their assembly points:

- D-3-1**: A bracket that fits into the central vertical support.
- D-3-2**: A long screw that passes through the bracket (D-3-1) and is secured with a washer.
- D-3-3**: A shorter screw that is inserted into the bracket (D-3-1).
- D-3-4**: A spring that is attached to the side of the main frame.
- D-3-5** and **D-3-6**: A pin and a nut that are used to secure the side of the main frame.
- D-3-7**: A pin that is inserted into the bottom of the main frame.
- D-3-8**: A tube that is attached to the bottom of the main frame.
- D-3-9** and **D-3-10**: A pin and a nut that are used to secure the bottom of the main frame.

Note

D

D-4

This diagram illustrates the assembly of the D-4 engine. The main assembly is shown in a perspective view, with various components labeled with part numbers. The components are grouped into three dashed-line boxes, indicating the sequence of assembly:

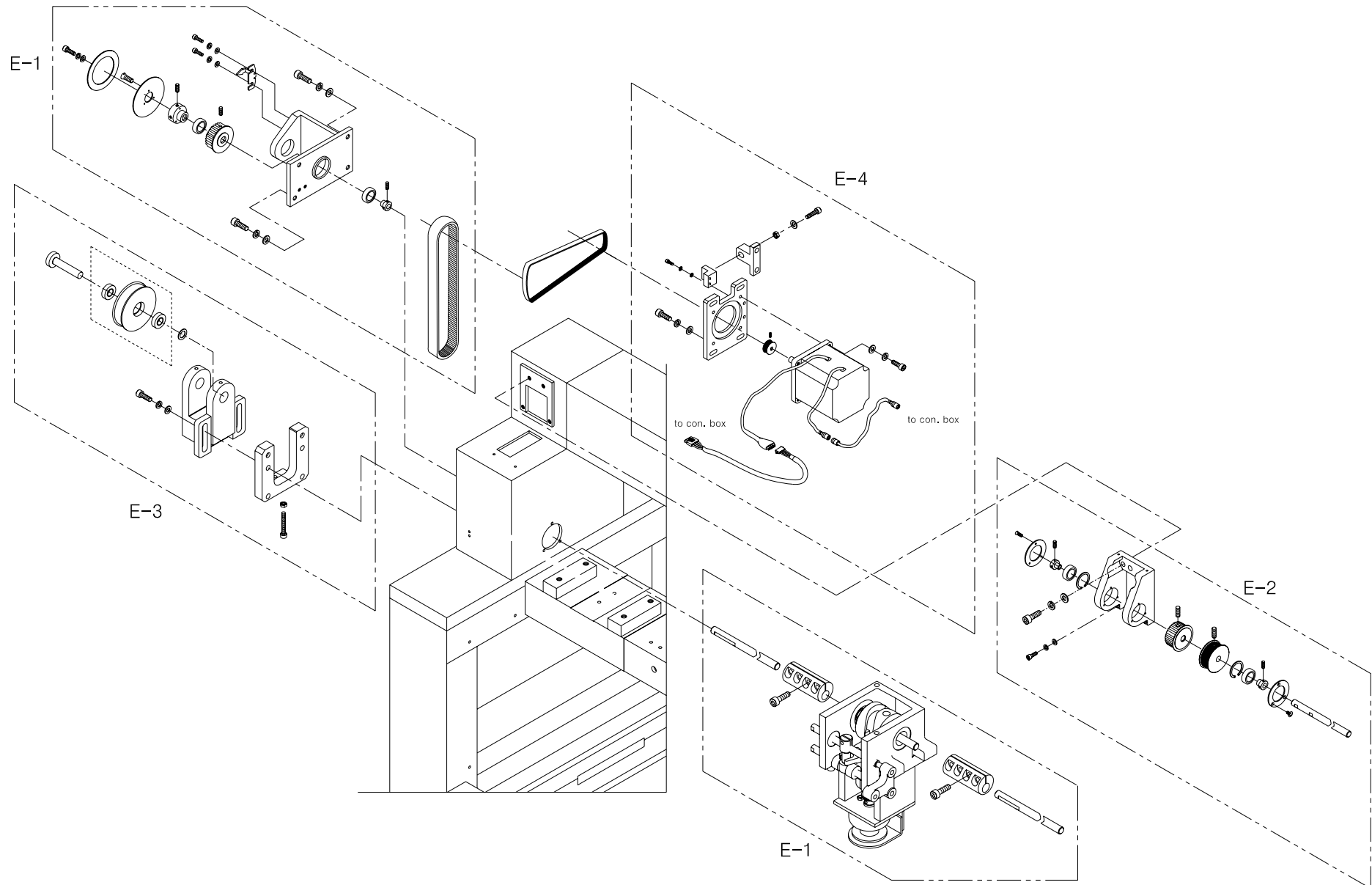
- Top Box:** Contains components D-4-1 through D-4-12. These include the main engine block (D-4-1), various bolts (D-4-2, D-4-3, D-4-5, D-4-6, D-4-7, D-4-8, D-4-9, D-4-10, D-4-11, D-4-12), and a bracket (D-4-4).
- Bottom Box:** Contains components D-4-13 through D-4-20. These include the fuel system components (D-4-13, D-4-14, D-4-15, D-4-16, D-4-17, D-4-18, D-4-19, D-4-20), a fuel line (D-4-13), and a fuel filter (D-4-14).
- Right Box:** Contains component D-4-21, which is a large, rectangular component, likely a fuel tank or a large bracket.

The diagram shows the assembly of the engine block, the fuel system, and the mounting of the engine to the chassis. The components are labeled with their respective part numbers, and the assembly sequence is indicated by the dashed-line boxes.

Note

D

Main Drive System



E-1

Exploded view diagram of a mechanical assembly, likely a door handle or latch mechanism. The diagram shows various components labeled with part numbers E-1-1 through E-1-25. Key parts include a main housing (E-1-1), a handle (E-1-7), a latch bolt (E-1-10), a spring (E-1-12), a pin (E-1-13), a washer (E-1-14), a nut (E-1-15), a screw (E-1-16), a pin (E-1-17), a pin (E-1-18), a pin (E-1-19), a pin (E-1-20), a pin (E-1-21), a pin (E-1-22), a pin (E-1-23), a pin (E-1-24), a pin (E-1-25), a pin (E-1-26), a pin (E-1-27), a pin (E-1-28), a pin (E-1-29), a pin (E-1-30), a pin (E-1-31), a pin (E-1-32), a pin (E-1-33), a pin (E-1-34), a pin (E-1-35), a pin (E-1-36), a pin (E-1-37), a pin (E-1-38), a pin (E-1-39), a pin (E-1-40), a pin (E-1-41), a pin (E-1-42), a pin (E-1-43), a pin (E-1-44), a pin (E-1-45), a pin (E-1-46), a pin (E-1-47), a pin (E-1-48), a pin (E-1-49), a pin (E-1-50), a pin (E-1-51), a pin (E-1-52), a pin (E-1-53), a pin (E-1-54), a pin (E-1-55), a pin (E-1-56), a pin (E-1-57), a pin (E-1-58), a pin (E-1-59), a pin (E-1-60), a pin (E-1-61), a pin (E-1-62), a pin (E-1-63), a pin (E-1-64), a pin (E-1-65), a pin (E-1-66), a pin (E-1-67), a pin (E-1-68), a pin (E-1-69), a pin (E-1-70), a pin (E-1-71), a pin (E-1-72), a pin (E-1-73), a pin (E-1-74), a pin (E-1-75), a pin (E-1-76), a pin (E-1-77), a pin (E-1-78), a pin (E-1-79), a pin (E-1-80), a pin (E-1-81), a pin (E-1-82), a pin (E-1-83), a pin (E-1-84), a pin (E-1-85), a pin (E-1-86), a pin (E-1-87), a pin (E-1-88), a pin (E-1-89), a pin (E-1-90), a pin (E-1-91), a pin (E-1-92), a pin (E-1-93), a pin (E-1-94), a pin (E-1-95), a pin (E-1-96), a pin (E-1-97), a pin (E-1-98), a pin (E-1-99), a pin (E-1-100).

Note



E-2

This exploded view diagram illustrates the assembly of the E-2 unit. The main unit is shown at the top, with a dashed line indicating the location of the E-2-1 component. Below the main unit, the E-2-1 component is shown in detail, with various sub-components labeled E-2-2 through E-2-18. The components are arranged in a linear fashion, showing the sequence of assembly. The E-2-1 component is a large, rectangular unit with a handle. The sub-components include a handle (E-2-18), a bracket (E-2-1), a screw (E-2-2), a washer (E-2-3), a nut (E-2-4), a spring (E-2-5), a pin (E-2-6), a pin (E-2-7), a pin (E-2-8), a pin (E-2-9), a pin (E-2-10), a pin (E-2-11), a pin (E-2-12), a pin (E-2-13), a pin (E-2-14), a pin (E-2-15), a pin (E-2-16), and a pin (E-2-17).

Note



E-3

The diagram illustrates the assembly of the E-3 component. The parts are labeled as follows:

- E-3-1: Main bracket assembly.
- E-3-2: Small screw.
- E-3-3: Small washer.
- E-3-4: Small screw.
- E-3-5: U-shaped bracket.
- E-3-6: Small screw.
- E-3-7: Small screw.
- E-3-8: Pulley assembly.
- E-3-9: Small washer.
- E-3-10: Long screw.

The assembly sequence is indicated by dashed lines and arrows:

- Attach E-3-2, E-3-3, and E-3-4 to E-3-1.
- Attach E-3-5 to E-3-1.
- Attach E-3-6 and E-3-7 to E-3-5.
- Attach E-3-8, E-3-9, and E-3-10 to E-3-5.

Note

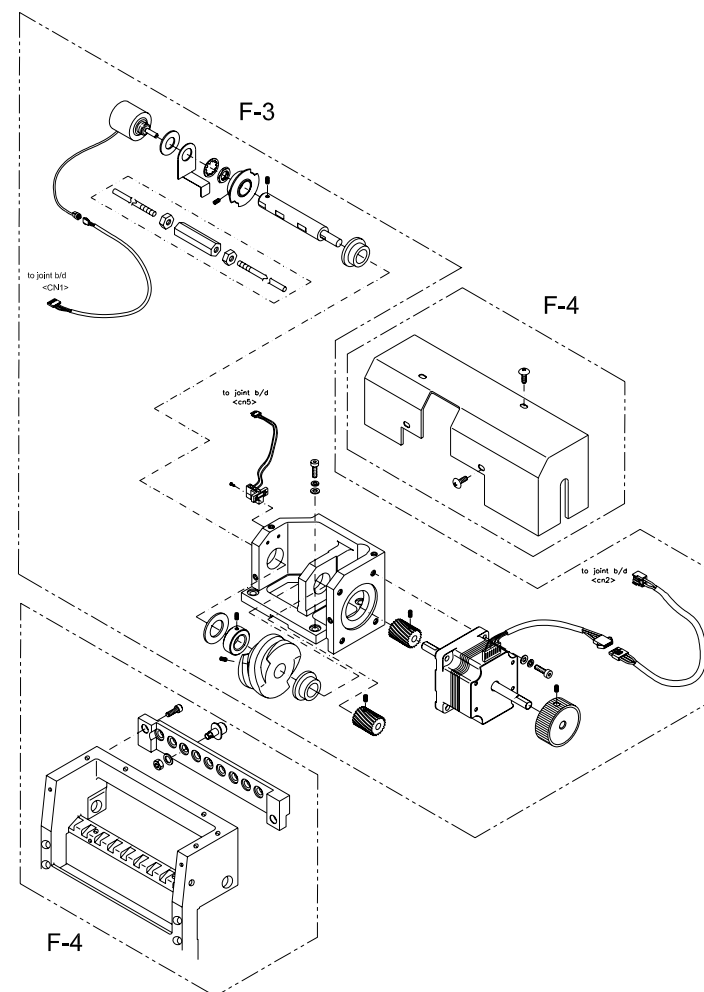
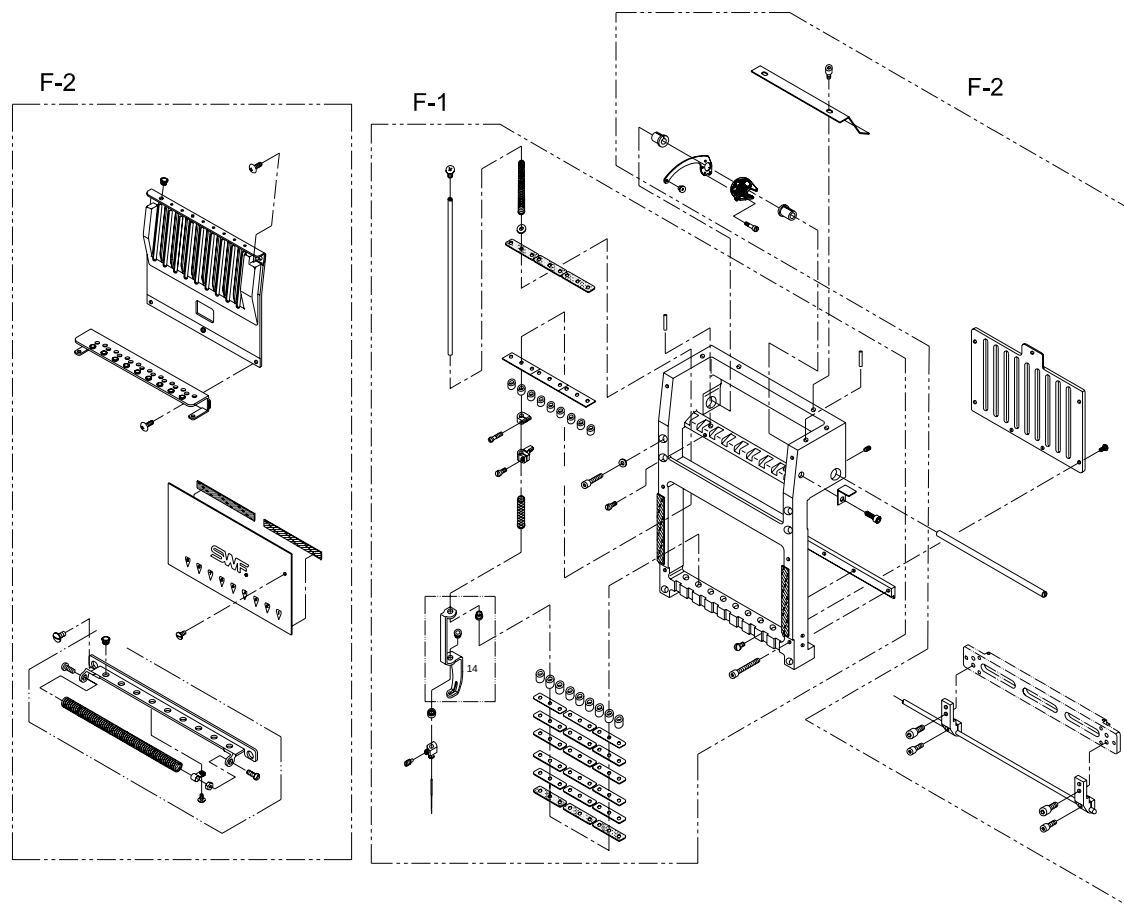
E

This diagram illustrates the assembly of the E-4-1 unit. The central component is the E-4-1 unit itself, which has two cables connected to it: E-4-19 (a long cable with a multi-pin connector) and E-4-20 (a shorter cable with a different connector). The unit is surrounded by various mounting brackets and fasteners. E-4-7 is a large mounting plate with a circular cutout. E-4-11 is a smaller bracket that fits into the cutout of E-4-7. E-4-18 is another bracket that fits onto the side of E-4-7. E-4-6 is a small circular component that fits into a hole in E-4-7. E-4-12, E-4-13, and E-4-14 are fasteners used to secure the assembly. E-4-15, E-4-16, and E-4-17 are also fasteners. E-4-8, E-4-9, and E-4-10 are fasteners. E-4-4, E-4-3, and E-4-2 are fasteners. The diagram also shows two cables labeled "to con. box" (to control box) connected to the unit.

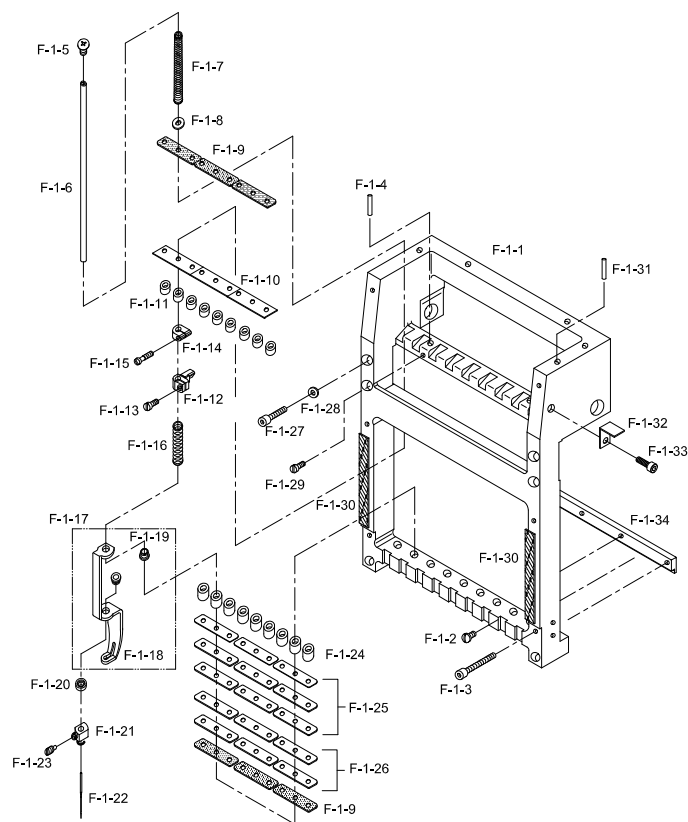
Note

E

Head & Color Change



F-1

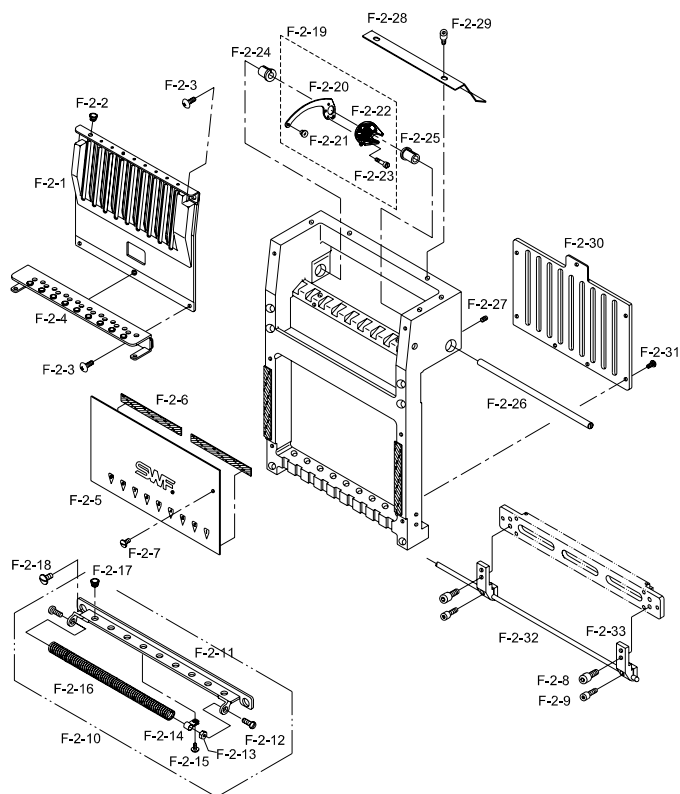


Note

F-1,F-2 : 08200003U000 (Head Ass'y)

Ref.No	Part No.	Part Name	Applied Period	Interchangeability	Hardware	Q'ty	Remark
F-1-1	05001CA-E091	Head "B"				4	
F-1-2	05013SC-A001	Head Rail Screw				8	
F-1-3	05014SC-7113	Hex. Socket Bolt (M4*L25)			○	8	
F-1-4	05015CW-A001	Head Base Pin(@5*L15)			○	4	
F-1-5	05019SC-A001	Needle Bar Cover Screw (M5*L6)			○	36	
F-1-6	05018CW-A001	Needle Bar				36	
F-1-7	05020AF-A001	Needle Bar Return Spring				36	
F-1-8	05022SW-A001	Spring Shoe Washer				36	
F-1-9	05021SF-A001	Felt				24	
F-1-10	05023RB-A001	Needle Bar Cushion Rubber "A"				12	
F-1-11	05024RB-A001	Needle Bar Cushion Rubber "B"				36	
F-1-12	GP-044776-00	Needle Bar Holder	Jan,13,09 ~	X		36	
F-1-13	05028SC-4113	Holder Screw (9/64-L8)				36	
F-1-14	11101200T000	Upper Dead Point Stopper				36	
F-1-15	05026SC-4113	Stopper Screw (9/64-11.5)				36	
F-1-16	05029AF-A001	Presser Foot Pressure Spring				36	
F-1-17	05029BM-A001	Presser Foot Set				36	
F-1-18	05030PR-B001	Presser Foot				36	
F-1-19	05031AF-A001	Presser Foot Guide Bush				72	
F-1-20	05035RB-A001	Presser Foot Cushion Rubber"A				36	
F-1-21	05036AF-A001	Needle Fixed Holder				36	
F-1-22	05037DB-A001	Needle (Db-K5, #11)			○	36	
F-1-23	05363SC-A001	Needle Fixed Screw (A/S)				36	
F-1-24	05032RB-A001	Presser Foot Cushion Rubber"B				36	
F-1-25	05033RB-A001	Presser Foot Adjusting Rubber				36	
F-1-26	05034RB-A001	Presser Foot Adjusting Rubber				24	
F-1-27	05008SC-4113	Hex.Socket Bolt (M4*L16)			○	16	
F-1-28	06003SW-2111	Washer (@4)			○	16	
F-1-29	03022SC-4517	Hex. Socket Set Screw(M4*L5)			○	4	
F-1-30	05063RB-A001	Magnetic Rubber "A"				8	
F-1-31	01303700H000	Tension Plate Pin				16	
F-1-32	02022PR-UK01	Upper Shaft Cover "B" Bracket				6	
F-1-33	02014SC-7113	Hex. Socket Bolt (M4*L5)			○	6	
F-1-34	08201303H000	Head Rail (9C)				4	
	08201304H000	Head Rail (12C)				4	

F-2

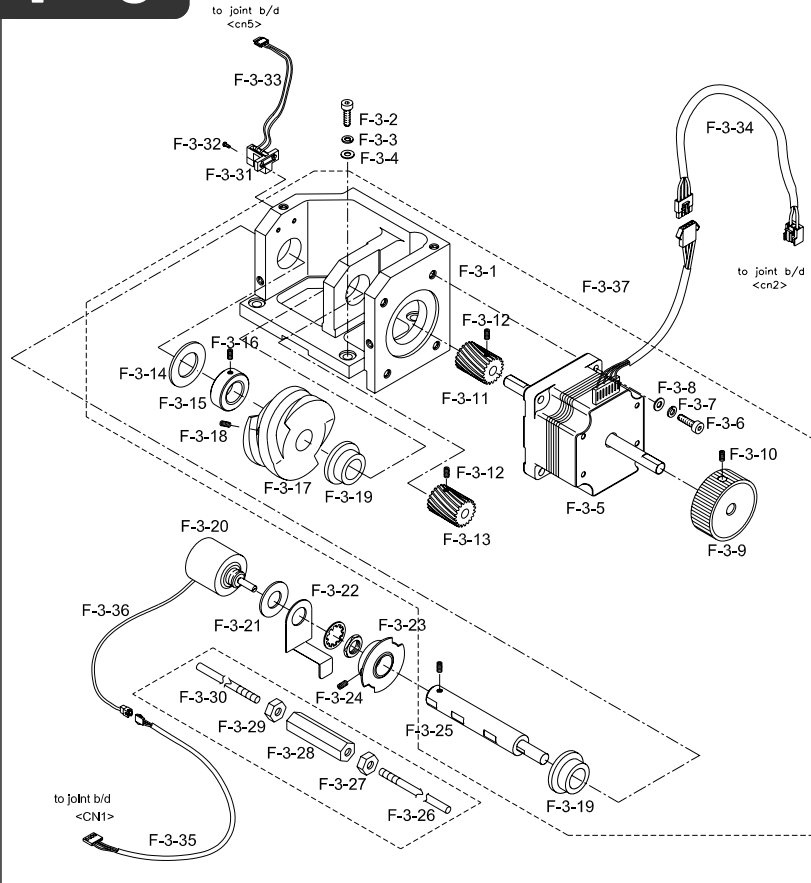


Note

F-1,F-2 : 08200003U000 (Head Ass'y)

Ref.No	Part No.	Part Name	Applied Period	Interchangeability	Hardware	Q'ty	Remark
F-2-1	10200103B000	Head Face Plate (U) 9C				4	
F-2-2	05452CM-A001	Eyelet "A"				36	
F-2-3	SC-001625-00	Thread Guide (M) Screw (9/64 n=40)	Jan.19.09	X		16	
	SC-001625-01	Thread Guide (M) Screw (9/64 n=40)	Feb.17.09	△		16	
F-2-4	GP-044298-00	Thread Guide (M) (9C)	Nov.25.08	X		4	
	GP-044298-01	Thread Guide (M) (9C)	Dec.16.08	△		4	
	GP-044298-02	Thread Guide (M) (9C)	Jan.30.09	△		4	
	GP-044298-03	Thread Guide (M) (9C)	Feb.17.09	△		4	
F-2-5	05651PR-A002	Head Face Plate (L) (9C)				4	
F-2-6	05642RB-A001	Magnetic Rubber "B"				8	
F-2-7	05062SC-A001	Thread Guide (L) Screw				4	
F-2-8	02031SC-7113	Hex. Socket Screw(M5*L10)			○	16	
F-2-9	02015SC-7113	Hex.Socket Bolt(M4*L10)			○	8	
F-2-10	10400003B000	Thread Guide(L) Set				4	
F-2-11	10400104B000	Thread Guide (L) 9C				4	
F-2-12	096440C-8119	Spring Adjusting Screw				8	
F-2-13	096440N-3211	Spring Adjusting Nut (9/64,N40)				8	
F-2-14	10400304B000	Spring Holder				4	
F-2-15	05060SC-8118	Screw (M3*L3)			○	4	
F-2-16	10400213B000	Thread Hook Spring (9C)				4	
F-2-17	05452CM-A001	Eyelet "A"				36	
F-2-18	05062SC-A001	Thread Guide (L) Screw				12	
F-2-19	07005BM-T121	Take-Up Lever Set				36	
F-2-20	05033PR-T121	Take-Up Lever				36	
F-2-21	07102CM-A001	Eyelet "C"				36	
F-2-22	05035PM-T121	Take-Up Lever Boss				36	
F-2-23	07003SC-A001	Take-Up Lever Screw				72	
F-2-24	08203000A000	Take-Up Lever Shaft Bush(L)				4	
F-2-25	08200800A000	Take-Up Lever Shaft Bush(R)				4	
F-2-26	08200503A000	Take-Up Lever Shaft (9C)				4	
F-2-27	07009SC-4517	Hex.Socket Set Screw (M5*L6)			○	4	
F-2-28	11047PR-A002	Cable Support Plate				3	
F-2-29	02023SC-7113	Hex. Socket Bolt (M4*L8)				6	
F-2-30	05039PM-A002	Needle Bar Guide Rail (9C)				4	
F-2-31	05041SC-A001	Guide Rail Screw				24	
F-2-32	18003SH-D092	Color Change Shaft				1	
F-2-33	08004900A000	Color Change Bracket "B"				7	

F-3



Note

Ref.No	Part No.	Part Name	Applied Period	Interchangeability	Hardware	Q'ty	Remark
F-3-1	13001CA-UK06	Color Change Base				1	
F-3-2	05008SC-4113	Hex.Socket Bolt (M4*L16)			○	4	
F-3-3	02028SW-9115	Spring Washer (@4)			○	4	
F-3-4	05009SW-1111	Washer (@4-L)			○	4	
F-3-5	13027MT-UK06	Color Change Motor (6 Head)				1	
F-3-6	05008SC-4113	Hex.Socket Bolt (M4*L16)			○	4	
F-3-7	02028SW-9115	Spring Washer (@4)			○	4	
F-3-8	05009SW-1111	Washer (@4-L)			○	4	
F-3-9	13022AD-UK06	Color Change Passivity Handle				1	
F-3-10	03020SC-A001	Drive Pin Screw 11/64,N40,L8				2	
F-3-11	13020GA-UK06	Color Change Gear (L)				1	
F-3-12	03020SC-A001	Drive Pin Screw 11/64,N40,L8			○	4	
F-3-13	13021GA-UK06	Color Change Gear (R)				1	
F-3-14	13010BR-T121	Washer(@12*@26*1T)			○	1	
F-3-15	13010CW-UK06	Color Change Collar				1	
F-3-16	03020SC-A001	Drive Pin Screw 11/64,N40,L8			○	2	
F-3-17	13005CM-UK06	Color Change Cam				1	
F-3-18	04012AF-A001	Hook Shaft Bush Screw				3	
F-3-19	GP-006252-00	Cam Bushing	Dec.15.04	X		2	
F-3-20	15012MT-T121	Potentiometer (7824 R1K L25)				1	
F-3-21	15014PR-T121	Potentiometer Washer				1	
F-3-22	13015PR-UK06	Potentiometer Bracket				1	
F-3-23	13032AD-UK06	Color Change Film Set				1	
F-3-24	03020SC-A001	Drive Pin Screw 11/64,N40,L8			○	3	
F-3-25	13007CW-UK06	Color Change Shaft				1	
F-3-26	23012SH-UK06	Color Change Shaft "A"				1	
F-3-27	17053SN-1111	Hex. Nut(L) (M6*T5-L)			○	1	
F-3-28	17051SN-A001	Mes Priving Shaft Joint				1	
F-3-29	13042SN-1111	Hex.Nut (M6*T5-R)			○	1	
F-3-30	23013SH-UK06	Color Change Shaft "B"				1	
F-3-31	08102300B000	Half Turn Sensor (Gp1S51V)				1	
F-3-32	08006SC-8118	Plus Screw (M3*L5)			○	2	
F-3-33	25033EL-E121	Cable (25-31)				1	
F-3-34	25025EL-E121	Cable (25-25)				1	
F-3-35	25033EL-E131	Cable (25-33)				1	
F-3-36	25036EL-UK01	Cc Potentiometer Cable(4Ht-36)				1	
F-3-37	08100000UK40	Color Change Motor Ass' y				1	

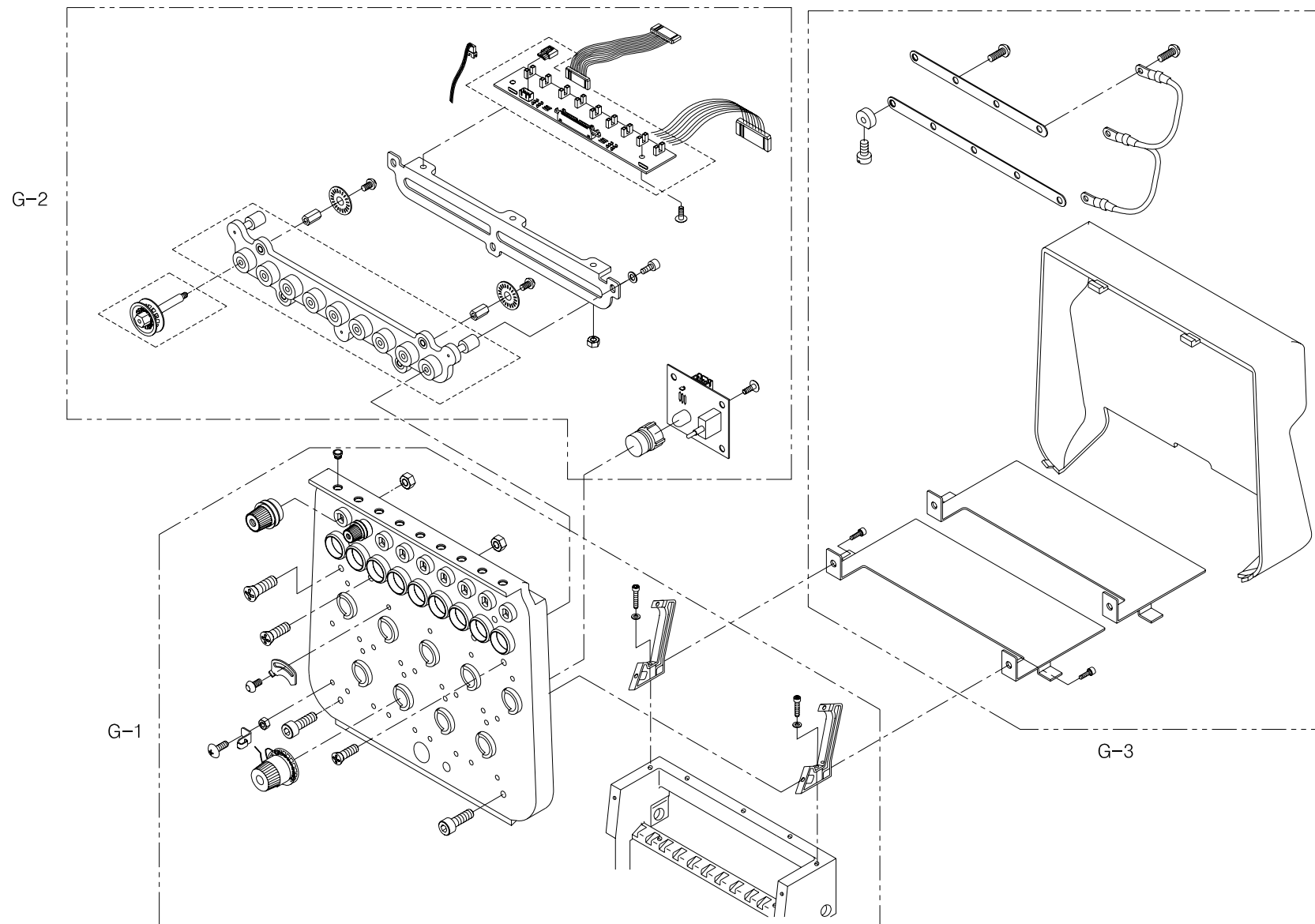
F-4

This exploded view diagram illustrates the assembly of the F-4 component. The main assembly consists of a base frame (F-4-1) and a top cover (F-4-2). A central rail assembly (F-4-3) is shown being inserted into the base frame. The rail assembly features a series of circular openings and is secured by a pin (F-4-4) and a nut (F-4-5). A bracket (F-4-6) is attached to the rail assembly. The top cover (F-4-2) is shown being placed over the rail assembly, with a screw (F-4-7) used to secure it. A separate screw (F-4-8) is shown being inserted into the top cover. A dashed line indicates the alignment of the rail assembly (F-4-3) with the base frame (F-4-1).

Note



Thread Tension Unit



This exploded view diagram illustrates the assembly of the G-2 unit. The components are labeled as follows:

- G-2-1**: A circular component, likely a filter or cap, shown separately from the main assembly.
- G-2-2**: The main rectangular housing or chassis, featuring a grid of circular ports or mounting holes.
- G-2-3**: A small circular component, possibly a gasket or seal, shown in two locations.
- G-2-4**: A small screw or fastener, shown in two locations.
- G-2-5**: A small cylindrical component, possibly a pin or spacer, shown in two locations.
- G-2-6**: A printed circuit board (PCB) with various electronic components and a ribbon cable attached.
- G-2-7**: A small screw or fastener.
- G-2-8**: A small cylindrical component, possibly a pin or spacer.
- G-2-9**: A long, narrow metal bracket or support structure.
- G-2-10**: A small screw or fastener.
- G-2-11**: A small cylindrical component, possibly a pin or spacer.
- G-2-12**: A cable or connector with a specific plug end.
- G-2-13**: A small rectangular component, possibly a switch or indicator.
- G-2-14**: A small screw or fastener.
- G-2-15**: A small cylindrical component, possibly a pin or spacer.

Dashed lines indicate the assembly path and alignment for each component relative to the main housing (G-2-2).

G-1,G-2 : 08300003I000 (TENSION UNIT PLATE Ass'y)

G-3

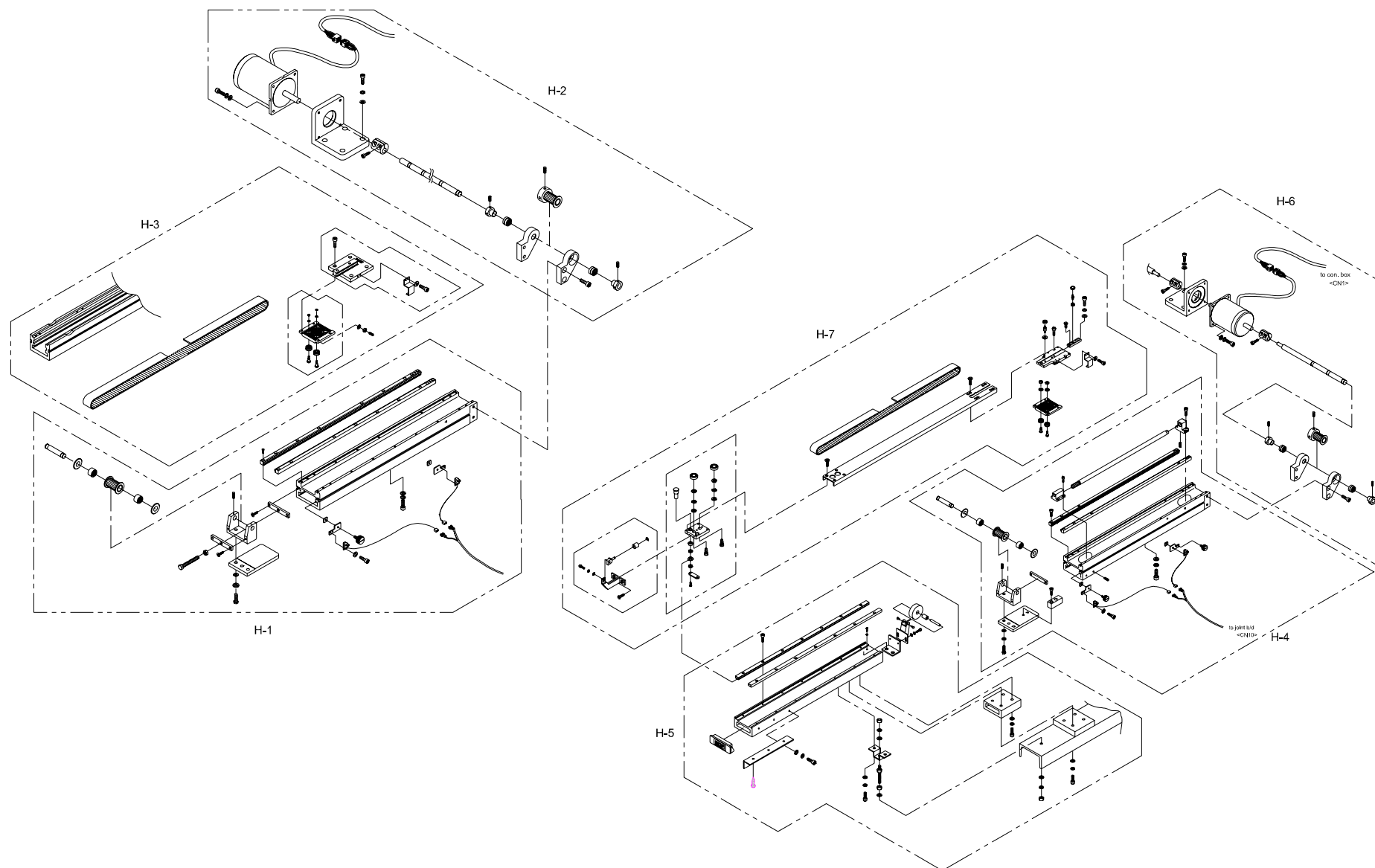
This exploded view diagram illustrates the assembly of the G-3 unit. The components are labeled as follows:

- G-3-1**: The main rectangular base plate.
- G-3-2**: Two screws used to secure the base plate to the frame.
- G-3-3**: A small rectangular component, likely a bracket or spacer, located at the bottom right of the base plate.
- G-3-4**: A long, thin metal bar with four circular holes, positioned above the base plate.
- G-3-5**: Two screws used to attach the bar (G-3-4) to the side of the base plate.
- G-3-6**: A small circular component, possibly a cap or a small wheel, attached to the end of the bar (G-3-4).
- G-3-7**: A flexible cable or hose with two connectors, one of which is shown attaching to the bar (G-3-4).
- G-3-8**: A large, U-shaped metal frame that surrounds the base plate.

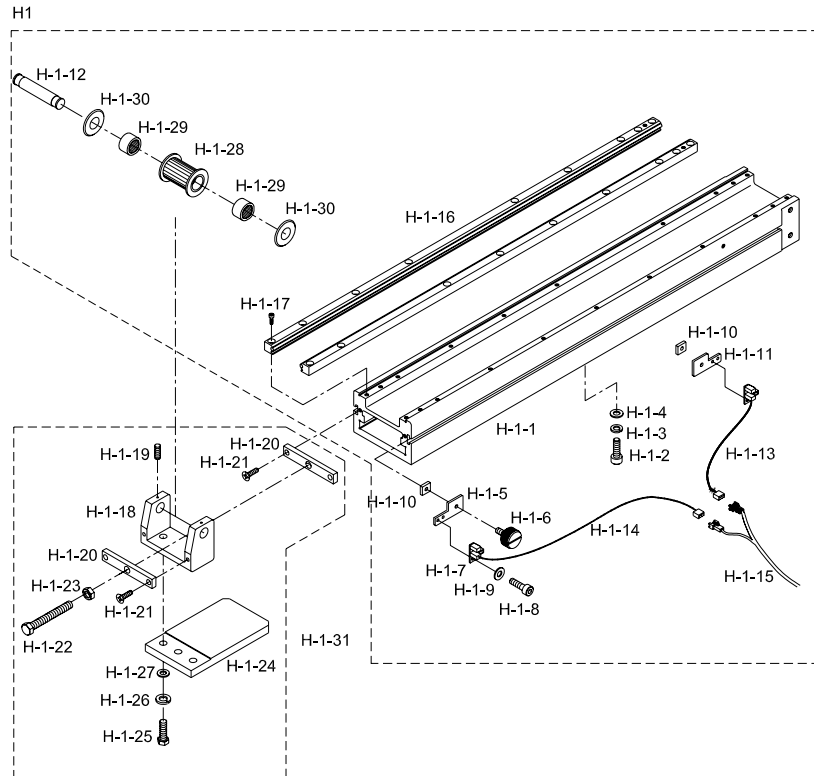
The diagram uses dashed lines to indicate the assembly path and alignment of the components. The base plate (G-3-1) is shown with a dashed outline of its internal structure, including a series of small rectangular slots along its bottom edge.

Note

X-Y Axis Drive System



H-1



Note

H1,H2,H3 : 15012BM-D101 (X Cam Roller Guide Frame Ass'y)

Ref.No	Part No.	Part Name	Applied Period	Interchangeability	Hardware	Q'ty	Remark
H-1-1	15010AD-E121	X Cam Roller Guide Frame				1	
H-1-2	15017SC-4113	Hex. Socket Bolt (M8*L45)			○	8	
H-1-3	15095SW-3115	SPRING WASHER (@8)			○	8	
H-1-4	04029SW-A001	Stud Bolt Washer(S) (@8)			○	8	
H-1-5	16078PR-W121	Sensor Bracket (L)				2	
H-1-6	15120SC-A001	Position Adjusting Screw				2	
H-1-7	16062EL-T121	Sensor Set				2	
H-1-8	08006SC-8118	Plus Screw (M3*L5)			○	4	
H-1-9	06011SW-2111	Washer (@3)			○	4	
H-1-10	15121PR-A001	Square Washer				2	
H-1-11	16079PR-W121	Sensor Bracket (R)				1	
H-1-12	04104400B000	Timing Pulley Driving Pin				2	
H-1-13	25046EL-E121	Cable (25-46)				1	
H-1-14	25047EL-E121	Cable (25-47)				1	
H-1-15	25045EL-E121	Cable (25-45)				1	
H-1-16	15037AD-BE01	Cam Roller Guide Rail (L=494)				2	
H-1-17	04016MC-4113	CAM ROLLER GUIDE FIXED SCREW				4	
H-1-18	15027DC-A001	Timing Pulley Bracket (C)				2	
H-1-19	03022SC-4517	Hex. Socket Set Screw(M4*L5)			○	4	
H-1-20	15056PR-A001	Tension Plate (W) (Belt:48)				2	
H-1-21	15089SC-7119	C.S Screw (M4*L12)			○	4	
H-1-22	15058SC-1211	Hex. Bolt (M6*L58)			○	2	
H-1-23	14064SN-7311	Hex.Nut (M6-No3)			○	2	
H-1-24	15024CW-A001	Timing Pulley Tension Base(N)				2	
H-1-25	14002SC-7113	Hex.Socket Bolt (M6*L15)			○	8	
H-1-26	08057SW-1111	Washer (@6)			○	6	
H-1-27	16014SW-4115	Spring Washer (@6)			○	6	
H-1-28	04002600H000	TIMING PULLEY(16-S5M-32F)				1	
H-1-29	15042BR-A001	Needle Bearing (1210Zz)			○	4	
H-1-30	15046RB-A001	Driving Pin Washer (Tw1225)				4	
H-1-31	15024BM-E121	Bracket Fixing Plate Ass' y				1	

Exploded view diagram of the H2 unit assembly, showing components H-2-1 through H-2-20. The diagram illustrates the assembly of the motor, mounting plate, and various fasteners. A dashed line indicates the connection to the H2 unit shown in the previous diagram.

H1,H2,H3 : 15012BM-D101 (X Cam Roller Guide Frame Ass'y)

H

The diagram illustrates the assembly of the H3 component. It shows the following parts and their assembly sequence:

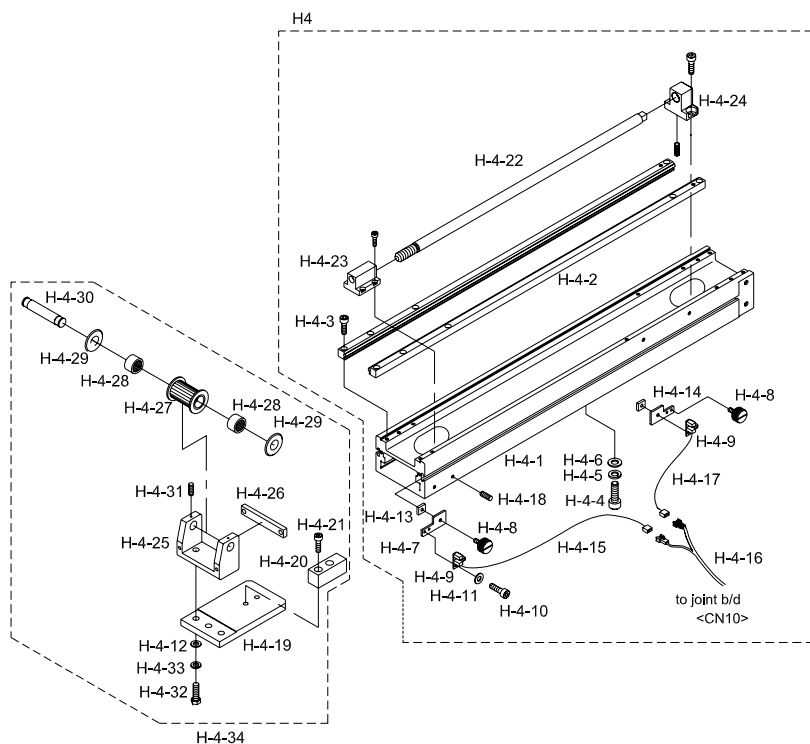
- H-3-1**: A long, thin, ribbed component, likely a filter or separator, shown in two orientations.
- H-3-2**: A square base plate with a grid pattern.
- H-3-3**: A small circular component.
- H-3-4**: A small circular component.
- H-3-5**: A small circular component.
- H-3-6**: A small circular component.
- H-3-7**: A small circular component.
- H-3-8**: A rectangular plate with a central slot.
- H-3-9**: A small circular component.
- H-3-10**: A small rectangular component.
- H-3-11**: A small circular component.
- H-3-12**: A small rectangular component.

The assembly sequence is indicated by dashed lines and arrows, showing the components being joined together to form the final H3 assembly.

H1,H2,H3 : 15012BM-D101 (X Cam Roller Guide Frame Ass'y)



H-4

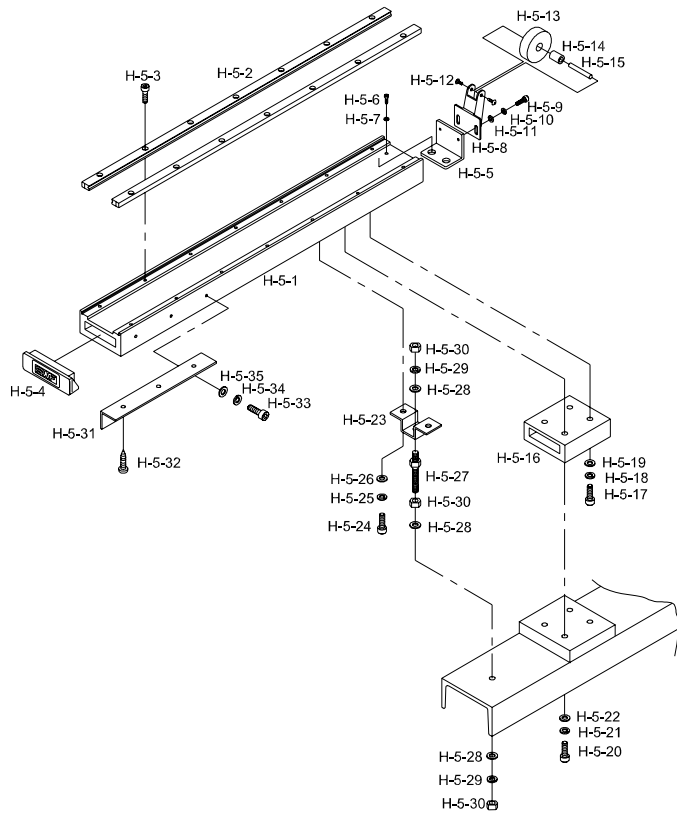


Note

H4,H5,H6 : 15017BM-E122 (Y Cam Roller Guide Frame Ass'y)

Ref.No	Part No.	Part Name	Applied Period	Interchangeability	Hardware	Q'ty	Remark
H-4-1	15022AD-B001	Y Cam Roller Guide Bracket A				2	
H-4-2	15030AD-B001	Y Cam Roller Guide Rail L=633				4	
H-4-3	04016MC-4113	CAM ROLLER GUIDE FIXED SCREW				16	
H-4-4	15017SC-4113	Hex. Socket Bolt (M8*L45)			○	16	
H-4-5	15095SW-3115	Spring Washer (@8)			○	16	
H-4-6	04029SW-A001	Stud Bolt Washer(S) (@8)			○	16	
H-4-7	16078PR-W121	Sensor Bracket (L)				2	
H-4-8	15120SC-A001	Position Adjusting Screw				2	
H-4-9	16062EL-T121	Sensor Set				2	
H-4-10	08006SC-8118	Plus Screw (M3*L5)			○	4	
H-4-11	06011SW-2111	Washer (@3)			○	4	
H-4-12	08057SW-1111	Washer (@6)			○	6	
H-4-13	15056PR-B001	Square Washer				2	
H-4-14	16079PR-W121	Sensor Bracket (R)				1	
H-4-15	25055EL-W121	Cable (25-55)				1	
H-4-16	25048EL-E121	Cable (25-48)				1	
H-4-17	25056EL-W121	Cable (25-56)				2	
H-4-18	08037AF-4517	Hex. Socket Set Screw M6*L10			○	4	
H-4-19	04302300B000	Timing Pulley Tension Base(W)				2	
H-4-20	04200600B000	Adjusting Shaft Stopper				2	
H-4-21	14006SC-7113	Hex.Socket Set Screw(M8*L15)				4	
H-4-22	15033CW-B001	Cam Roller Screw "B"				2	
H-4-23	04200400B000	Y Adjusting Shaft Guide (A)				2	
H-4-24	04200500B000	Y Adjusting Shaft Guide (B)				2	
H-4-25	15026DC-A001	Timing Pulley Bracket (N)				2	
H-4-26	15055PR-A001	Tension Rivet Plate (W) W:48				2	
H-4-27	04500100E000	TIMMING PULLEY(16-S5M-32F)				2	
H-4-28	15042BR-A001	Needle Bearing (1210Zz)			○	2	
H-4-29	15046RB-A001	Driving Pin Washer (Tw1225)				4	
H-4-30	04104300B000	Timing Pulley Driving Pin "A"				2	
H-4-31	03022SC-4517	Hex. Socket Set Screw(M4*L5)			○	4	
H-4-32	15028SC-1111	Hex. Bolt (M6*L20)			○	6	
H-4-33	03026SW-9115	Spring Washer (@6)			○	6	
H-4-34	15023BM-E121	Bracket Fixing Plate Ass' y				2	

H-5



Note

Ref.No	Part No.	Part Name	Applied Period	Interchangeability	Hardware	Q'ty	Remark
H-5-1	15090AD-B001	V-Rail Bracket				2	
H-5-2	15085AF-A001	Y-Axis Rail Guide				4	
H-5-3	08037AF-4517	Hex. Socket Set Screw M6*L10				4	
H-5-4	15092RB-B001	V-RAIL SUPPORT RUBBER CAP				2	
H-5-5	GP-013196-00	Supprot Bracket	Nov.10.05	X		2	
H-5-6	14006SC-4113	Hex.Socket Bolt(M8*L15)			○	4	
H-5-7	15077SW-2111	Washer (@8)			○	4	
H-5-8	GP-006914-00	Roller Bracket	Jan.12.05	X		2	
	GP-006914-01	Roller Bracket	Jun.02.05	△		2	
	GP-006914-02	Roller Bracket	May.03.06	△		2	
H-5-9	02015SC-7113	Hex.Socket Bolt(M4*L10)			○	4	
H-5-10	18014SW-3115	Spring Washer (@4)			○	4	
H-5-11	18015SW-3111	Washer (@4)			○	4	
H-5-12	09005SC-3123	Truss Screw(M3*L6)			○	4	
H-5-13	GP-006917-00	Guide Roller	Jan.12.05	X		2	
	GP-006917-01	Guide Roller	Jun.02.05	△		2	
H-5-14	GP-006918-00	Guide Roller Bushing	Jun.12.05	X		4	
	GP-006918-01	Guide Roller Bushing	Jun.02.05	△		4	
H-5-15	PN-000133-00	Roller Pin	Jun.12.05	X		2	
H-5-16	15095AD-B001	Spacer				2	
H-5-17	14027SC-4113	Hex.Socket Bolt (M8*L30)			○	4	
H-5-18	15095SW-3115	Spring Washer (@8)			○	4	
H-5-19	08041SW-1111	Washer (@8-S)			○	4	
H-5-20	14006SC-7113	Hex.Socket Set Screw(M8*L15)			○	4	
H-5-21	15095SW-3115	Spring Washer (@8)			○	4	
H-5-22	08041SW-1111	Washer (@8-S)			○	4	
H-5-23	15097PR-B001	Stud Bracket				2	
H-5-24	14006SC-7113	Hex.Socket Set Screw(M8*L15)			○	4	
H-5-25	15095SW-3115	Spring Washer (@8)			○	4	
H-5-26	08041SW-1111	Washer (@8-S)			○	4	
H-5-27	15096CW-B001	Stud Bolt (M8*L90)				2	
H-5-28	08041SW-1111	Washer (@8-S)			○	6	
H-5-29	15095SW-3115	Spring Washer (@8)			○	6	
H-5-30	04032SN-A001	Hex. Nut (M8-No2)			○	6	
H-5-31	15093AD-B001	Table Support				8	
H-5-32	16010SC-8330	Tapping Screw (M6*L25)			○	12	
H-5-33	18047SC-7113	Hex/ Socket Bolt (M5*L15)			○	12	

H-5

This diagram illustrates the exploded view of the H-5 assembly, showing the following components and their assembly points:

- H-5-1**: Main horizontal rail.
- H-5-2**: Long horizontal rail.
- H-5-3**: Screw for H-5-2.
- H-5-4**: Small rectangular component.
- H-5-5**: Vertical bracket.
- H-5-6**: Screw for H-5-5.
- H-5-7**: Screw for H-5-5.
- H-5-8**: Small bracket.
- H-5-9**: Small bracket.
- H-5-10**: Small bracket.
- H-5-11**: Small bracket.
- H-5-12**: Small bracket.
- H-5-13**: Small bracket.
- H-5-14**: Small bracket.
- H-5-15**: Small bracket.
- H-5-16**: Small bracket.
- H-5-17**: Small bracket.
- H-5-18**: Small bracket.
- H-5-19**: Small bracket.
- H-5-20**: Small bracket.
- H-5-21**: Small bracket.
- H-5-22**: Small bracket.
- H-5-23**: Small bracket.
- H-5-24**: Small bracket.
- H-5-25**: Small bracket.
- H-5-26**: Small bracket.
- H-5-27**: Small bracket.
- H-5-28**: Small bracket.
- H-5-29**: Small bracket.
- H-5-30**: Small bracket.
- H-5-31**: Small bracket.
- H-5-32**: Small bracket.
- H-5-33**: Small bracket.
- H-5-34**: Small bracket.
- H-5-35**: Small bracket.

Note

[illegible]

H-6

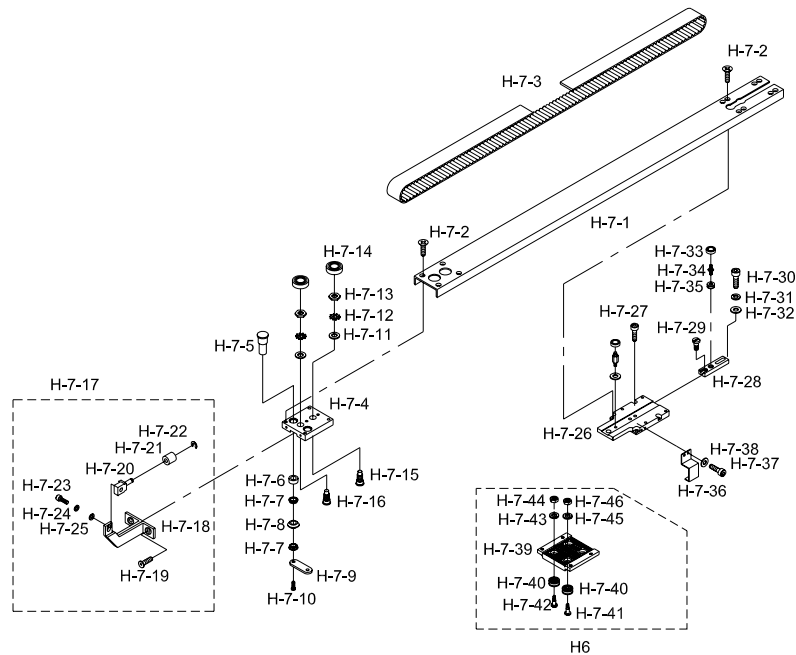
The diagram illustrates the assembly of the H-6 unit. Key components and their assembly sequence are as follows:

- Base Assembly:** Components H-6-11, H-6-9, H-6-10, H-6-5, H-6-6, H-6-7, and H-6-8 are assembled onto the main base plate.
- Motor and Cable:** The motor assembly (H-6-1) is connected to the base. A cable (H-6-21) is connected to the motor and labeled "to con. box <CN1>".
- Shaft and Coupling:** The shaft (H-6-12) is inserted into the motor. Coupling components H-6-4, H-6-3, H-6-2, H-6-10, and H-6-9 are assembled onto the shaft.
- Bracket and Mounting:** The bracket (H-6-13) is mounted onto the shaft assembly. The mounting plate (H-5) is then attached to the bracket.
- Final Assembly:** The final assembly is shown at the bottom, with components H-6-14, H-6-15, H-6-16, H-6-17, H-6-18, and H-6-20 being added to the bracket and mounting plate.

H4,H5,H6 : 15017BM-E122 (Y Cam Roller Guide Frame Ass'y)



H-7



Note

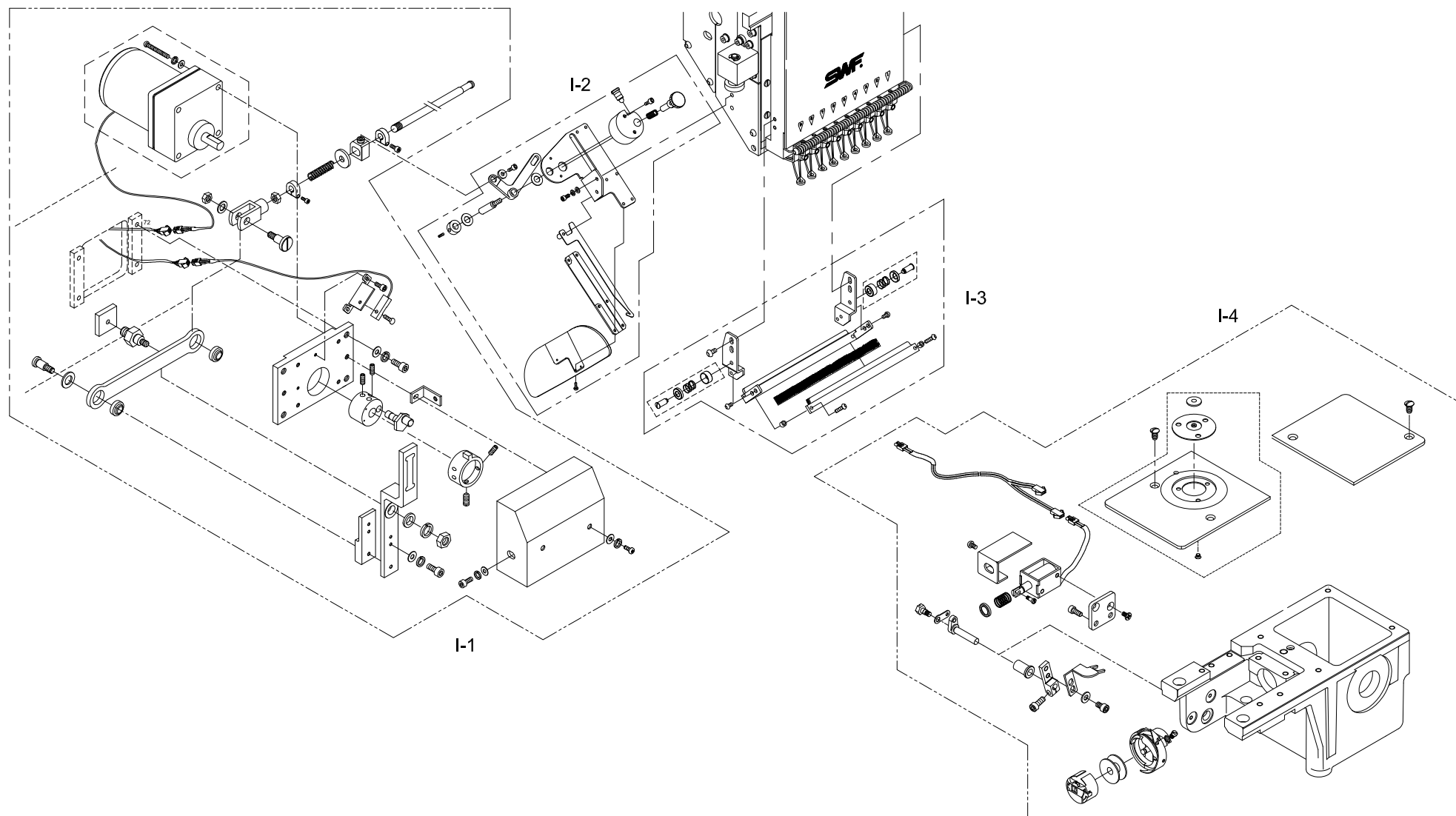
H4,H5,H6 : 15017BM-E122 (Y Cam Roller Guide Frame Ass'y)

Ref.No	Part No.	Part Name	Applied Period	Interchangeability	Hardware	Q'ty	Remark
H-7-1	15083PR-B001	Connection Cover"C"				2	
H-7-2	15084SC-7119	C.S Screw (M4*L6)			○	16	
H-7-3	15051BT-A001	Y-Drive Timing Belt (W:35)				2	
H-7-4	08407100B000	Y-Axis Feed Plate "D"				2	
H-7-5	15076CW-A031	Rail Guide Pin "C"				4	
H-7-6	15092CW-A031	Stopper Washer				4	
H-7-7	15106BR-A001	Flange Bearing (1280Zz)			○	8	
H-7-8	15130AF-A001	Roller Guide				4	
H-7-9	15137PR-A001	Rail Guide Shaft Bracket				2	
H-7-10	05028SC-A001	Holder Screw				4	
H-7-11	15077SW-2111	Washer (8@-S)			○	4	
H-7-12	15078SW-8113	Toothed Lock Washer (@8)				4	
H-7-13	15079SN-2311	Rail Guide Shaft Nut				4	
H-7-14	15077BR-B001	Ball Bearing (Lr606Nppu)				8	
H-7-15	15075CW-B001	Rail Guide Pin "B"				2	
H-7-16	15074CW-B001	Rail Guide Pin "A"				2	
H-7-17	15134BM-B001	Roller Bracket Ass'Y				2	
H-7-18	08000700B000	Bracket				2	
H-7-19	02002SC-7119	Plus Screw (M4*L8)			○	4	
H-7-20	10507400B000	Roller Position Adjusting Pin				2	
H-7-21	15133CW-B001	Roller				2	
H-7-22	15159SR-4013	E-Ring (3@)			○	2	
H-7-23	02023SC-7113	Hex. Socket Bolt (M4*L8)			○	2	
H-7-24	18014SW-3115	Spring Washer (@4-No2)			○	2	
H-7-25	18015SW-3111	Washer (4@)			○	2	
H-7-26	15053CW-SF41	Bearing Block (C)				2	
H-7-27	15067SC-A001	Hex.Socket Bolt (M4*L7)			○	8	
H-7-28	GP-006299-00	ADJUSTING BLOCK FOR BEARING	Dec.18.04			2	
H-7-29	15074SC-A001	Stopper Stud				2	
H-7-30	02031SC-7113	Hex. Socket Screw (M5*L10)			○	4	
H-7-31	18048SW-3115	Spring Washer (@5)			○	4	
H-7-32	WS-000083-00	@5 - Washer	Dec.20.04		○	4	
H-7-33	15077BR-B001	Ball Bearing (Lr606Nppu)			○	8	
H-7-34	15098CW-A001	Rail Guide Pin "B"				2	
H-7-35	18111CW-B001	Frame 'E' Roller				2	
H-7-36	15122PR-E121	Zero Point Sensor Plate				1	
H-7-37	07035SC-7113	Bracket Screw (M3*L6)			○	2	

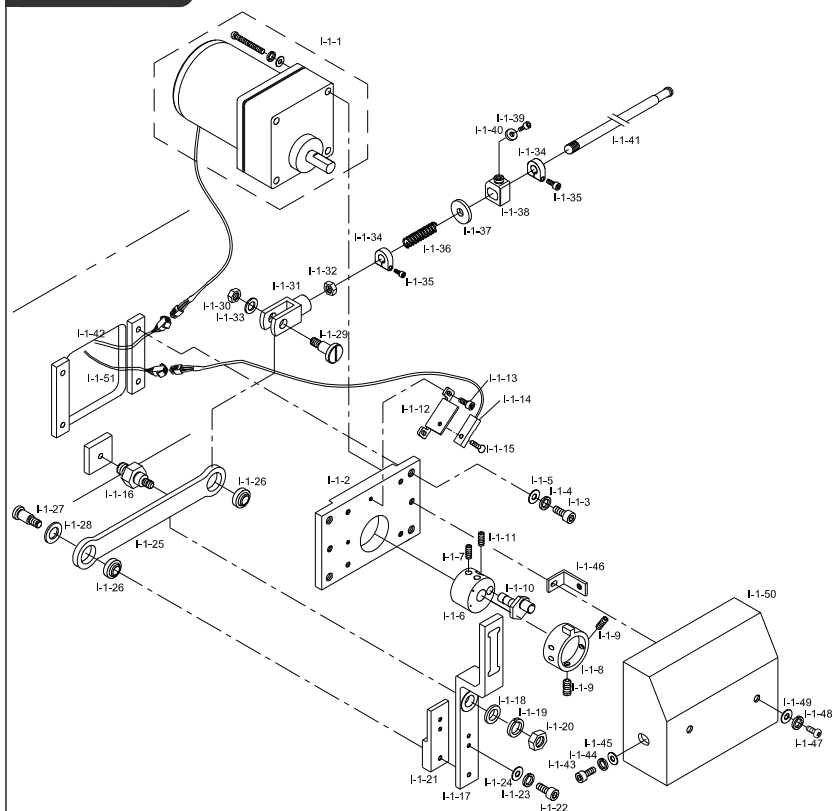
H4,H5,H6 : 15017BM-E122 (Y Cam Roller Guide Frame Ass'y)



Setting



I-1



Note

Ref.No	Part No.	Part Name	Applied Period	Interchangeability	Hardware	Q'ty	Remark
I-1-1	03003100H000	Upper Thread Hook Motor Unit				1	
I-1-2	03003210H000	MOTOR BASE				1	
I-1-3	06025MC-7113	Hex.Socket Bolt(M6*L25)			○	4	
I-1-4	16014SW-4115	Spring Washer (@6)			○	4	
I-1-5	08057SW-1111	Washer (@6)			○	4	
I-1-6	03003300H000	Cam Shaft Fixing Block				1	
I-1-7	05008MC-4517	Hex.Socket Bolt(M5*L8)			○	2	
I-1-8	GP-005184-00	SENSOR SENSING ADJUSTING RING	Oct.14.04	X		1	
	GP-005184-01	SENSOR SENSING ADJUSTING RING	May.19.05	△		1	
I-1-9	04014SC-4517	Hex.Socket Set Screw(M5*L5)			○	2	
I-1-10	03003500H000	Motor Driving Cam Shaft				1	
I-1-11	04014SC-4517	Hex.Socket Set Screw(M5*L5)			○	1	
I-1-12	GP-005180-00	UPPER THREAD HOOK SENSOR BASE	Oct.13.04	X		1	
I-1-13	07035SC-7113	Bracket Screw (M3*L6)			○	2	
I-1-14	15-027A-2070	SENSOR				1	
I-1-15	13061SC-8119	Plus Screw (M3*L10)			○	1	
I-1-16	03003810H000	Stud Bolt For Driving Plate				1	
I-1-17	03003910H000	Upper Thread Driving Plate				1	
I-1-18	WS-000549-00	Stud Bolt Washer	Feb.20.09 ~			1	
	WS-000549-01		Jun.24.09 ~				
I-1-19	15095SW-3115	Spring Washer (@8)			○	1	
I-1-20	04032SN-A001	Hex. Nut (M8-No2)			○	1	
I-1-21	03004100H000	Driving Plate Block				1	
I-1-22	18047SC-7113	Hex/ Socket Bolt (M5*L15)			○	2	
I-1-23	18048SW-3115	Spring Washer (5@)			○	2	
I-1-24	18049SW-3111	Washer (@5)			○	2	
I-1-25	03004200HH00	MOTOR DRIVING CONNECT PLATE				1	
I-1-26	03004400H000	Motor Driving Connect Bearing				2	
I-1-27	03008300H000	Connecting Plate Stud Screw A				1	
I-1-28	03004500H000	Connecting Plate Pin Washer				1	
I-1-29	03004700H000	Connecting Plate Stud Screw				1	
I-1-30	13042SN-1111	Hex.Nut (M6*T5-R)			○	1	
I-1-31	03004800H000	Connecting Plate Knuckle				1	
I-1-32	04032SN-A001	Hex. Nut (M8-No2)			○	1	
I-1-33	16014SW-4115	SPRING WASHER (@6)			○	1	
I-1-34	LWP-BK0003-00	Return Spring Stopper	Dec,28,10 ~	X		8	
	LWP-BK0003-01		Jul,01,11 ~	△			
I-1-35	05008SC-4113	Hex.Socket Bolt (M4*L16)			○	8	
I-1-36	03002700H000	Return Spring				4	

[illegible]

I-2

This diagram illustrates the assembly of the I-2 component. The main assembly is shown in a dashed box, with various parts labeled with callouts. The components include:

- I-2-1**: The main body of the assembly.
- I-2-2**: A small screw or pin.
- I-2-3**: A small screw or pin.
- I-2-4**: A small screw or pin.
- I-2-5**: A small screw or pin.
- I-2-6**: A small screw or pin.
- I-2-7**: A small screw or pin.
- I-2-8**: A small screw or pin.
- I-2-9**: A small screw or pin.
- I-2-10**: A small screw or pin.
- I-2-11**: A small screw or pin.
- I-2-12**: A small screw or pin.
- I-2-13**: A small screw or pin.
- I-2-14**: A small screw or pin.
- I-2-15**: A small screw or pin.
- I-2-16**: A small screw or pin.
- I-2-17**: A small screw or pin.
- I-2-18**: A small screw or pin.
- I-2-19**: A small screw or pin.

The diagram also shows a separate component, **I-2-6**, which is a small screw or pin, and a separate component, **I-2-7**, which is a small screw or pin. The diagram is a technical drawing showing the assembly of the I-2 component. The main assembly is shown in a dashed box, with various parts labeled with callouts. The components include:

- I-2-1**: The main body of the assembly.
- I-2-2**: A small screw or pin.
- I-2-3**: A small screw or pin.
- I-2-4**: A small screw or pin.
- I-2-5**: A small screw or pin.
- I-2-6**: A small screw or pin.
- I-2-7**: A small screw or pin.
- I-2-8**: A small screw or pin.
- I-2-9**: A small screw or pin.
- I-2-10**: A small screw or pin.
- I-2-11**: A small screw or pin.
- I-2-12**: A small screw or pin.
- I-2-13**: A small screw or pin.
- I-2-14**: A small screw or pin.
- I-2-15**: A small screw or pin.
- I-2-16**: A small screw or pin.
- I-2-17**: A small screw or pin.
- I-2-18**: A small screw or pin.
- I-2-19**: A small screw or pin.

Note

I-3

This diagram illustrates the exploded view of the I-3 door hinge assembly. The main components are shown in their relative positions as they would be assembled. The assembly includes a door frame with a hinge mechanism, a door with a hinge mechanism, and a hinge arm. The components are labeled with part numbers: I-3-1 (Hinge Arm), I-3-2 (Hinge Pin), I-3-3 (Hinge Bush), I-3-4 (Hinge Pin), I-3-5 (Hinge Pin), I-3-6 (Hinge Pin), I-3-7 (Hinge Pin), I-3-8 (Hinge Pin), I-3-9 (Hinge Pin), I-3-10 (Hinge Pin), and I-3-11 (Hinge Pin). The diagram also shows the door frame with a hinge mechanism and the door with a hinge mechanism. The door frame is labeled with 'SWF' and 'V'.

Note

I-4

This diagram illustrates the assembly of the I-4 component. The main assembly is shown on the right, with various sub-components and their fasteners labeled with part numbers. A dashed box highlights a specific sub-assembly area. A cable is shown connected to the main unit, with a label indicating its connection to the Joint Board.

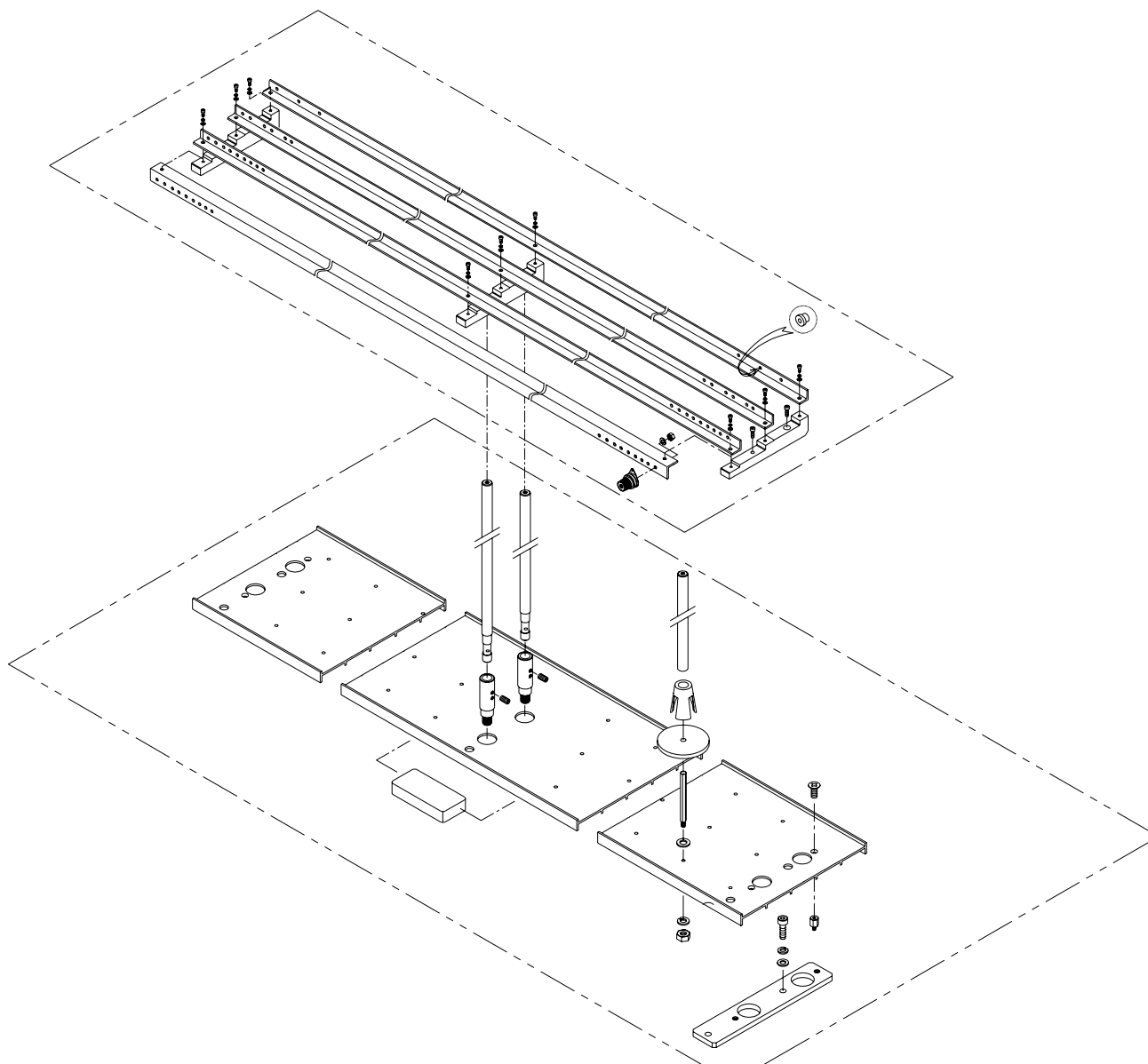
To Joint Board
<CN15,CN16>

Part numbers shown in the diagram include:

- I-4-1, I-4-2, I-4-3, I-4-4, I-4-5, I-4-6, I-4-7, I-4-8, I-4-9, I-4-10, I-4-11, I-4-12, I-4-13, I-4-14, I-4-15, I-4-16, I-4-17, I-4-18, I-4-19, I-4-20, I-4-21, I-4-22, I-4-23, I-4-24, I-4-25, I-4-26, I-4-27, I-4-28, I-4-29

O

Spool



J-1

The diagram illustrates the assembly of the J-1 unit. The main components are shown in an exploded view, with dashed lines indicating their assembly paths. The components are labeled as follows:

- J-1-1: A rectangular base plate with four circular holes.
- J-1-2: A small rectangular component, likely a filter or gasket.
- J-1-3: A small cylindrical component.
- J-1-4: A small cylindrical component with a flange.
- J-1-5: A small cylindrical component with a flange.
- J-1-6: A small cylindrical component with a flange.
- J-1-7: A small cylindrical component with a flange.
- J-1-8: A small cylindrical component with a flange.
- J-1-9: A small cylindrical component with a flange.
- J-1-10: A small cylindrical component with a flange.
- J-1-11: A small cylindrical component with a flange.
- J-1-12: A small cylindrical component with a flange.
- J-1-13: A small cylindrical component with a flange.
- J-1-14: A small rectangular component, likely a filter or gasket.
- J-1-15: A small rectangular component with two circular holes.
- J-1-16: A small cylindrical component with a flange.
- J-1-17: A small cylindrical component with a flange.
- J-1-18: A small cylindrical component with a flange.

The assembly sequence is indicated by the numbers in the diagram. The components are assembled in the following order:

- J-1-1
- J-1-2
- J-1-3
- J-1-4
- J-1-5
- J-1-6
- J-1-7
- J-1-8
- J-1-9
- J-1-10
- J-1-11
- J-1-12
- J-1-13
- J-1-14
- J-1-15
- J-1-16
- J-1-17
- J-1-18

Note

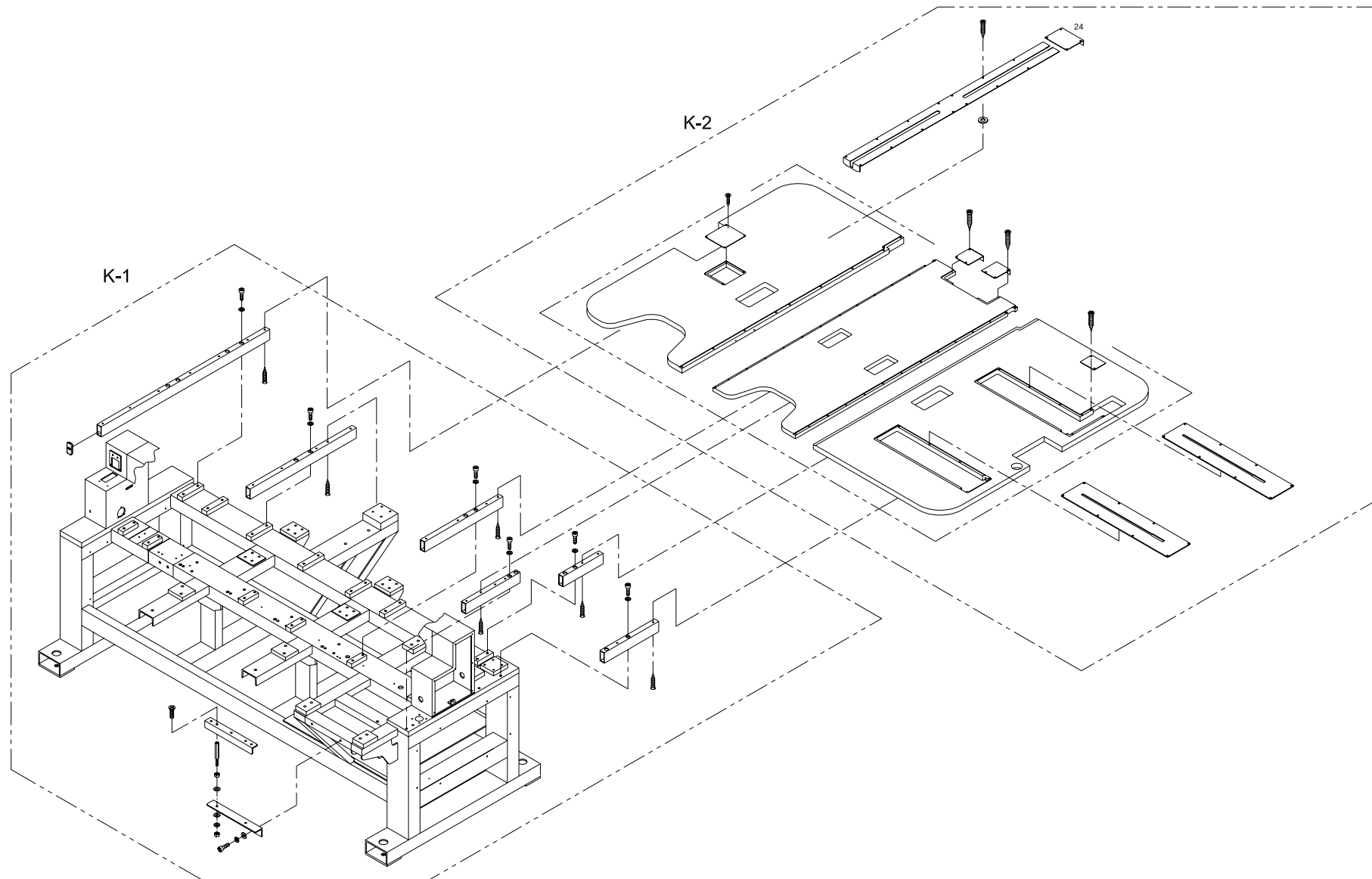


Diagram illustrating the assembly of the J-2-14 component, showing various sub-components and their assembly points:

- J-2-14 (Main assembly)
- J-2-5, J-2-6, J-2-7 (Assembly points for the top rail)
- J-2-1 (Top rail)
- J-2-2, J-2-3, J-2-4 (Intermediate rails)
- J-2-5, J-2-6, J-2-7 (Assembly points for the bottom rail)
- J-2-13 (Assembly point for the bottom rail)
- J-2-8, J-2-9 (Assembly points for the bottom rail)
- J-2-10 (Assembly point for the bottom rail)
- J-2-11, J-2-12 (Assembly points for the bottom rail)



Work Table



This diagram illustrates the exploded view of a mechanical assembly, likely a conveyor system or a material handling unit. The components are labeled as follows:

- K-1-1**: A long horizontal beam or support structure.
- K-1-2**: A small vertical pin or bolt.
- K-1-3**: A small vertical pin or bolt.
- K-1-4**: A small vertical pin or bolt.
- K-1-5**: A horizontal beam or support structure.
- K-1-6**: A horizontal beam or support structure.
- K-1-7**: A horizontal beam or support structure.
- K-1-8**: A horizontal beam or support structure.
- K-1-9**: A horizontal beam or support structure.
- K-1-10**: A small vertical pin or bolt.
- K-1-11**: A small vertical pin or bolt.
- K-1-12**: A horizontal beam or support structure.
- K-1-13**: A horizontal beam or support structure.
- K-1-14**: A small vertical pin or bolt.
- K-1-15**: A small vertical pin or bolt.
- K-1-16**: A small vertical pin or bolt.
- K-1-17**: A small vertical pin or bolt.
- K-1-18**: A small vertical pin or bolt.
- K-1-19**: A small vertical pin or bolt.
- K-1-20**: A small vertical pin or bolt.

The diagram shows the assembly structure with various beams, supports, and fasteners. Dashed lines indicate the assembly path and alignment of the components.

Note

[illegible]

K-2

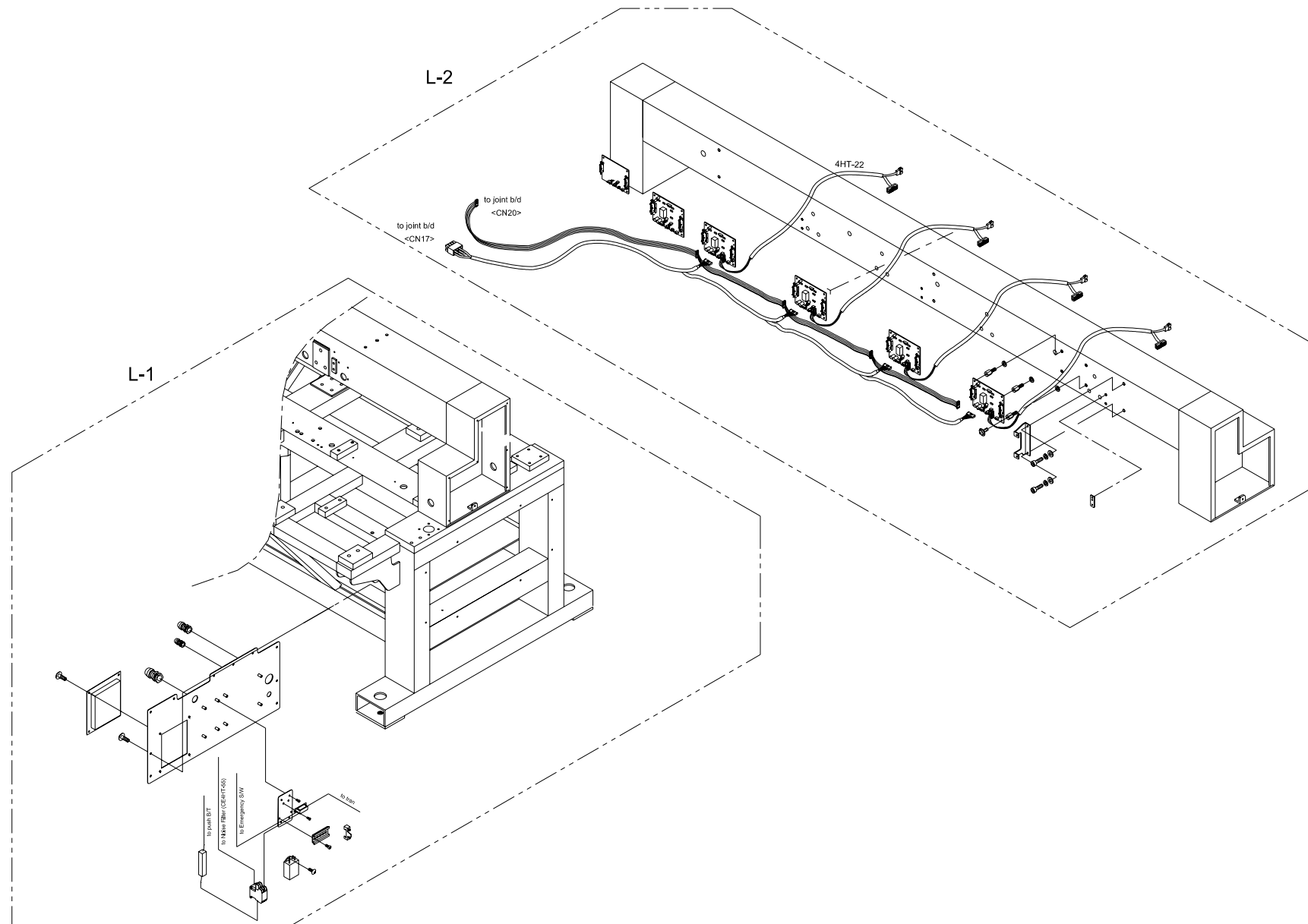
This exploded view diagram illustrates the assembly of the K-2 unit. The components are labeled as follows:

- K-2-1**: The main base plate, shown with dashed lines indicating its footprint.
- K-2-2**: A small rectangular component located on the left side of the base plate.
- K-2-3**: Multiple screws used for assembly, indicated by arrows pointing to various locations on the base plate and other components.
- K-2-4**: A small rectangular component located in the center of the base plate.
- K-2-5**: A small rectangular component located on the right side of the base plate.
- K-2-6**: A small rectangular component located at the bottom right of the base plate.
- K-2-7**: A long, narrow component with a central slot, positioned above the base plate.
- K-2-8**: A rectangular component with a central slot, positioned above the base plate.
- K-2-9**: A rectangular component with a central slot, positioned above the base plate.
- K-2-10**: A long, narrow component with a central slot, positioned above the base plate.
- K-2-11**: A small circular component located on the base plate.

Note



Cable



L-1

This diagram illustrates the assembly of the L-1 control panel. The main panel, L-1-1, is shown with various components being attached. L-1-2 is a mounting plate, L-1-3 is a screw, and L-1-4 is a terminal block. L-1-5 is a terminal block, L-1-6 is a terminal block, L-1-7 is a terminal block, L-1-8 is a terminal block, L-1-9 is a terminal block, L-1-10 is a terminal block, L-1-11 is a terminal block, L-1-12 is a terminal block, L-1-13 is a terminal block, L-1-14 is a terminal block, L-1-15 is a terminal block, L-1-16 is a terminal block, and L-1-17 is a terminal block. The diagram also shows the connection of the panel to the main unit, with labels for 'to push BT', 'to Motor Filter (CEAT-1-25)', 'to Emergency SW', and 'to train'.

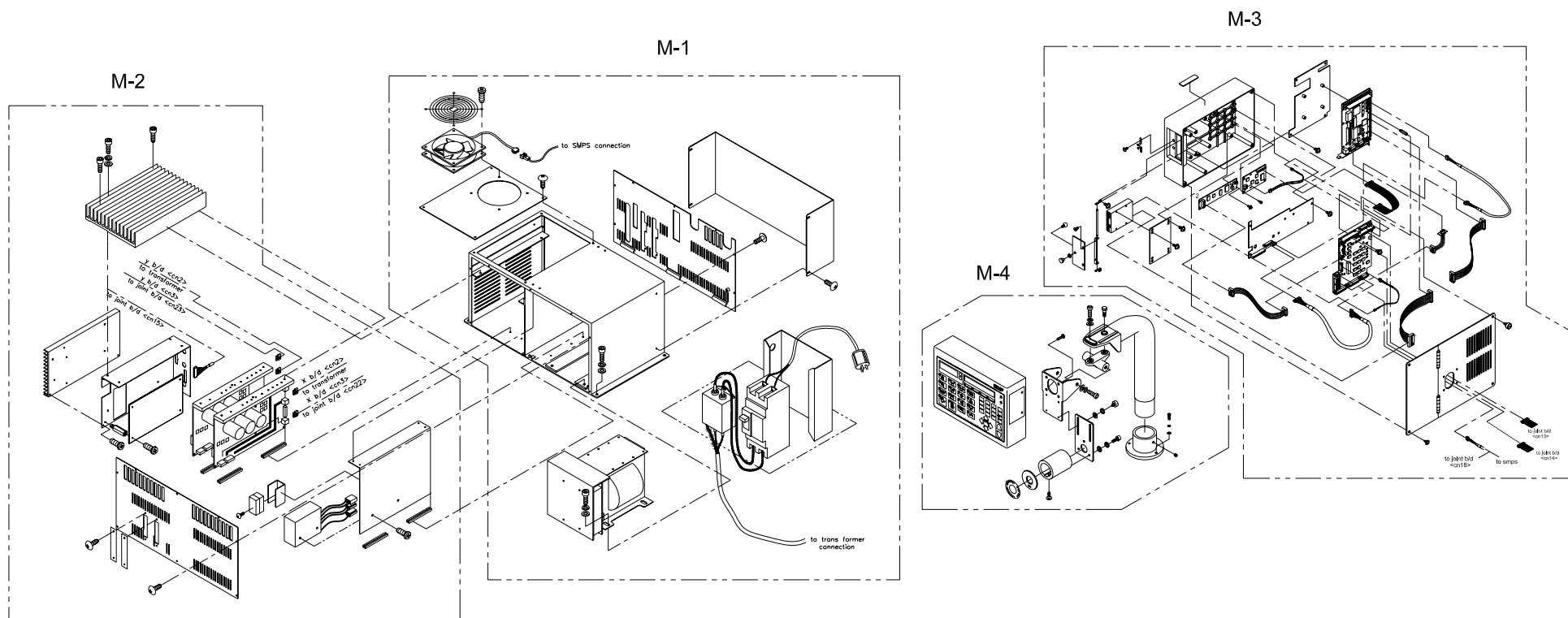
Note

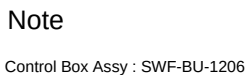


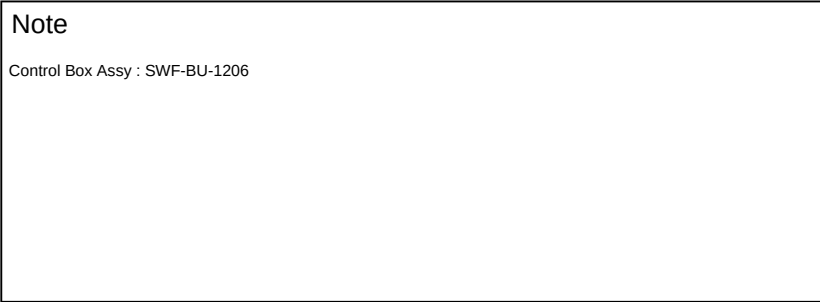
Note



Con Box & OP Box



[illegible]

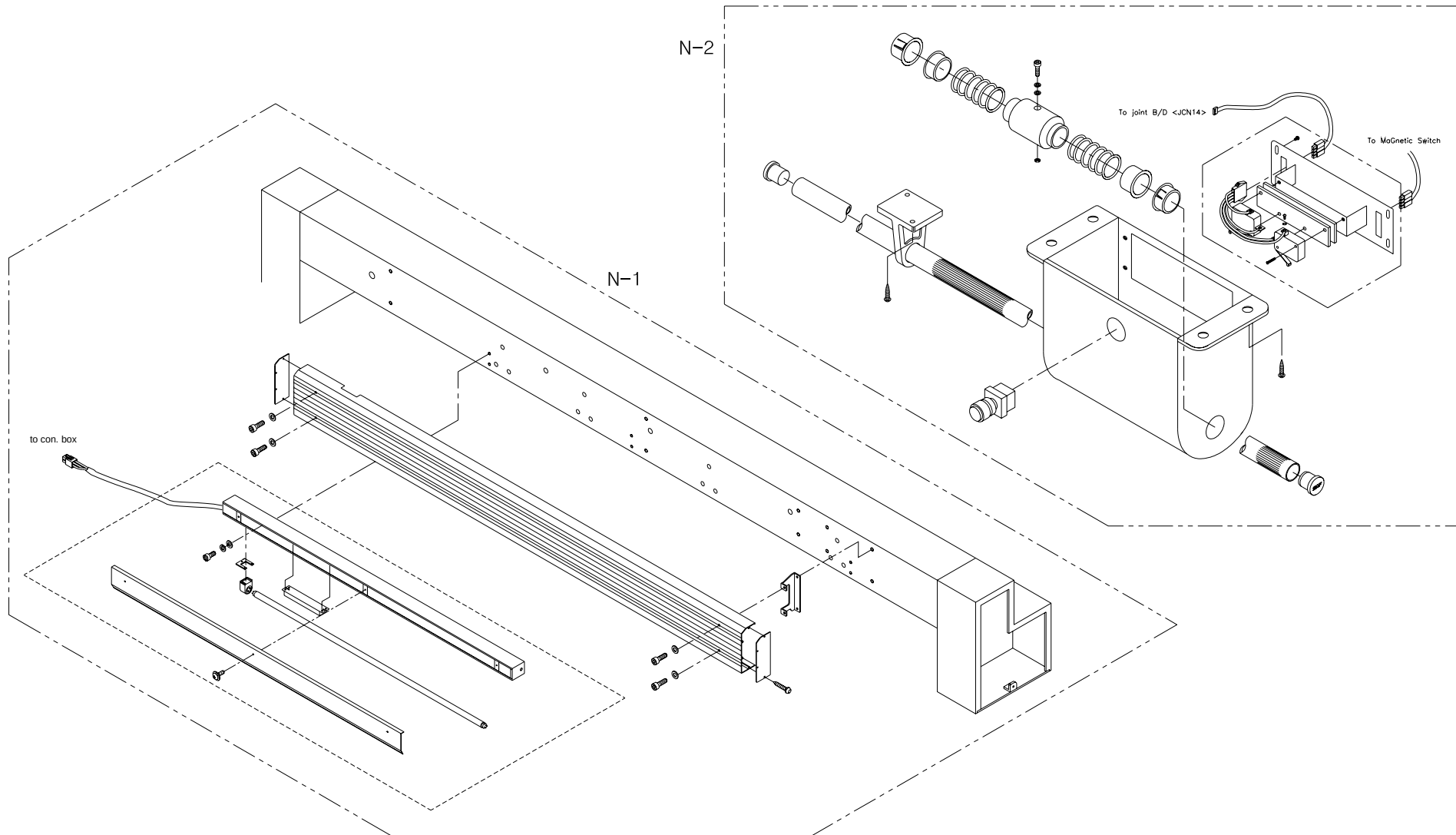
[illegible]

Operation Box Assy : 19023BM-T121

M

72

Lamp & Switch

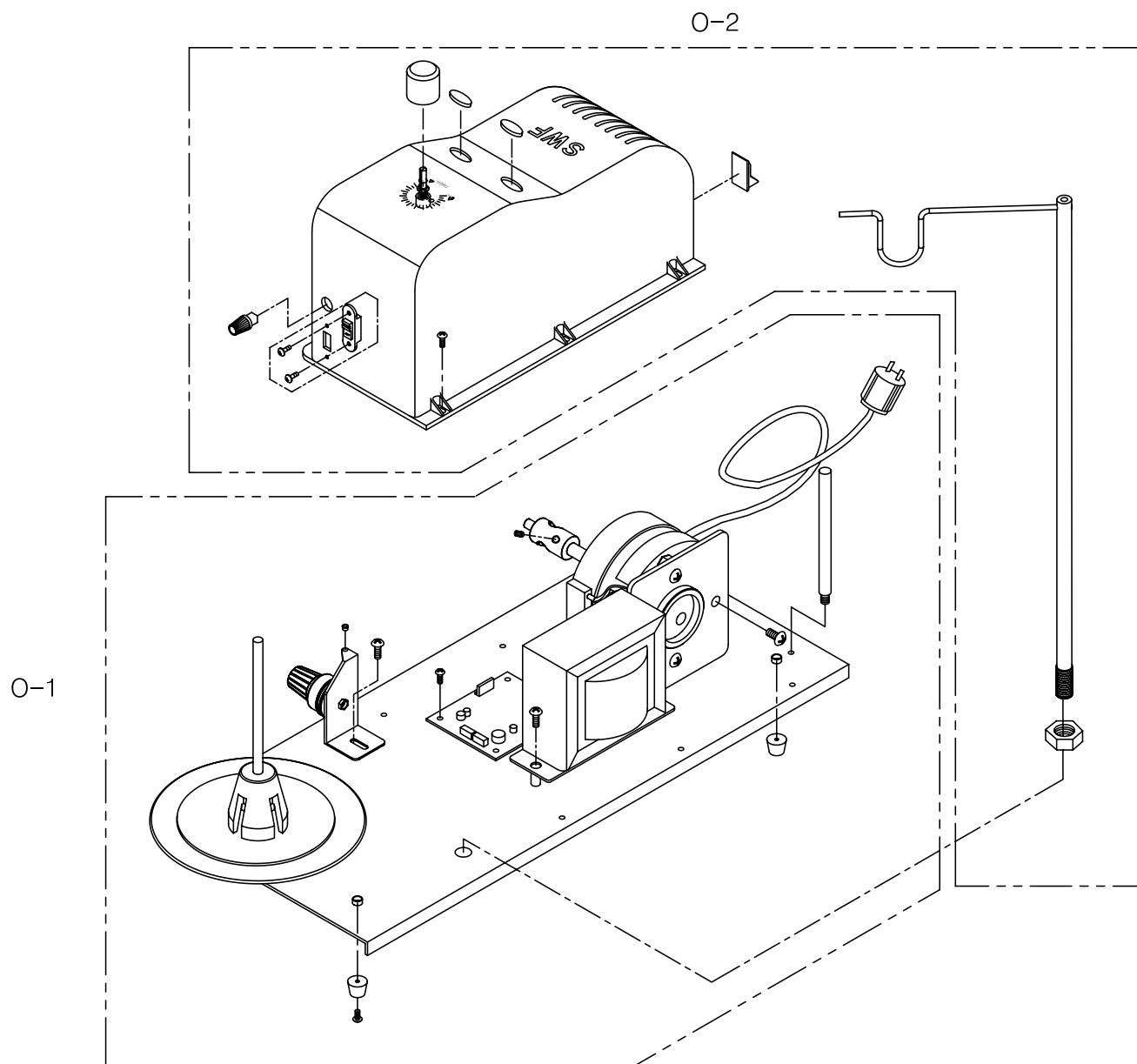


[illegible]

N

75

Bobbin Winder



This exploded view diagram illustrates the assembly of the O-1 unit. The components are labeled as follows:

- O-1-1**: The main rectangular base plate.
- O-1-2**: A vertical rod passing through the base plate.
- O-1-3**: A circular disc at the bottom of the rod.
- O-1-4**: A small circular component on the disc.
- O-1-5**: A larger circular component on the disc.
- O-1-6**: A small rectangular component on the base plate.
- O-1-7**: A small circular component on the base plate.
- O-1-8**: A small circular component on the base plate.
- O-1-9**: A small circular component on the base plate.
- O-1-10**: A small circular component on the base plate.
- O-1-11**: A small circular component on the base plate.
- O-1-12**: A small circular component on the base plate.
- O-1-13**: A small circular component on the base plate.
- O-1-14**: A small circular component on the base plate.
- O-1-15**: A small circular component on the base plate.
- O-1-16**: A small circular component on the base plate.
- O-1-17**: A small circular component on the base plate.
- O-1-18**: A small circular component on the base plate.
- O-1-19**: A small circular component on the base plate.

[illegible]

O-2

The diagram illustrates the assembly of the O-2 unit. Key components and their assembly points are labeled as follows:

- O-2-1**: A long vertical rod that passes through the bottom of the unit and is secured with a hex nut.
- O-2-2**: A screw that secures the bottom plate of the unit.
- O-2-3**: A small rectangular plate that fits into a slot on the side of the unit.
- O-2-4**: A small cylindrical component that fits into a hole on the front panel.
- O-2-5**: A small rectangular component that fits into a slot on the front panel.
- O-2-6**: A screw that secures the front panel.
- O-2-7**: A cylindrical component that fits into a hole on the top of the unit.
- O-2-8**: A small circular component that fits into a hole on the top of the unit.
- O-2-9**: A small circular component that fits into a hole on the top of the unit.
- O-2-10**: A U-shaped component that fits into a slot on the top of the unit.
- O-2-11**: A small rectangular component that fits into a slot on the top of the unit.

Note

[illegible]

This diagram illustrates the assembly of a mechanical system, showing a main frame and two sub-assemblies, P-1 and P-2, in an exploded view.

- Main Frame:** The central component is a long, rectangular frame with a series of vertical supports and a horizontal beam. It features a complex internal structure with various brackets and mounting points.
- Sub-assembly P-1:** Located at the top left, P-1 consists of a vertical plate with a curved top, a horizontal plate, and a small cylindrical component. It is shown being attached to the main frame.
- Sub-assembly P-2:** Located at the bottom left, P-2 includes a small rectangular block with two vertical pins, a larger rectangular block with two horizontal pins, and a small rectangular block with two horizontal pins. It is shown being attached to the main frame.
- Other Components:** Several other parts are shown, including a small rectangular plate, a small rectangular plate with a curved top, and a small rectangular plate with a curved top. These are shown being attached to the main frame.

The diagram uses dashed lines to indicate the assembly path and the relative positions of the components.

[illegible][illegible]

P-2

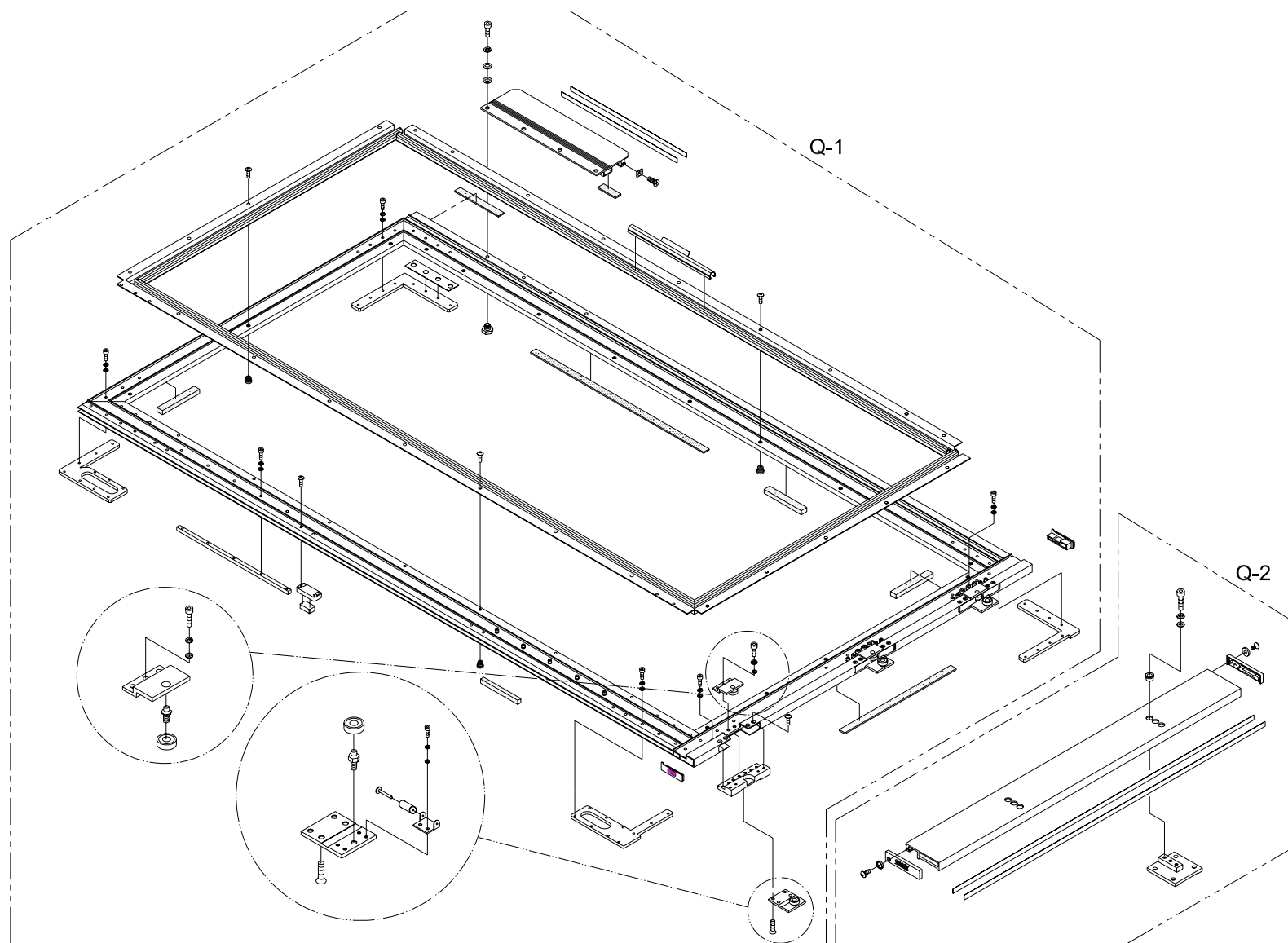
This diagram illustrates the exploded view of the P-2 assembly. The main component is a long, horizontal metal rail with multiple mounting slots. Various brackets and fasteners are shown being attached to this rail. Key components and their assembly points are labeled as follows:

- P-2-1**: A bracket that fits into the first slot of the rail.
- P-2-2**: A small bracket that fits into the second slot of the rail.
- P-2-3**: A bracket that fits into the third slot of the rail.
- P-2-4**: A small bracket that fits into the fourth slot of the rail.
- P-2-5**: A screw used to secure the bracket in the fourth slot.
- P-2-6**: A bracket that fits into the fifth slot of the rail.
- P-2-7**: A bracket that fits into the sixth slot of the rail.
- P-2-8**: A screw used to secure the bracket in the sixth slot.
- P-2-9**: A screw used to secure the bracket in the sixth slot.
- P-2-10**: A bracket that fits into the seventh slot of the rail.
- P-2-11**: A bracket that fits into the eighth slot of the rail.
- P-2-12**: A bracket that fits into the ninth slot of the rail.
- P-2-13**: A bracket that fits into the tenth slot of the rail.
- P-2-14**: A bracket that fits into the eleventh slot of the rail.
- P-2-15**: A bracket that fits into the twelfth slot of the rail.

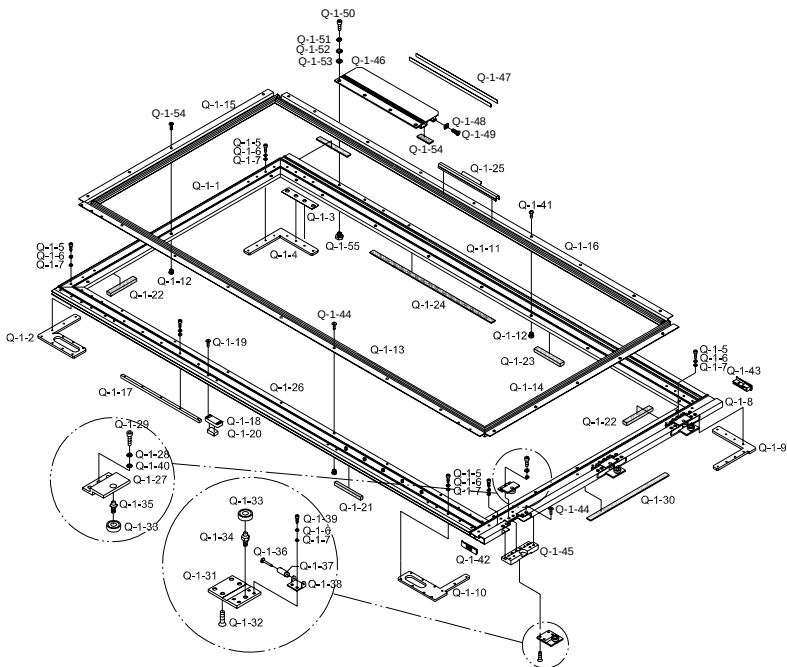
Note

P

Frame



Q-1



Note

Ref.No	Part No.	Part Name	Applied Period	Interchangeability	Hardware	Q'ty	Remark
Q-1-1	18009AD-A021	Y-Axis Sash (L)				1	
Q-1-2	18016PR-A001	Left Corner Guide (F)				1	
Q-1-3	18011PR-A001	X-Axis Sash Plate (A) (1T)				2	
Q-1-4	18012PR-A001	Left Corner Guide (R)				1	
Q-1-5	04010MC-7113	Hex. Socket Bolt (M4*L10)			○	93	
Q-1-6	18014SW-3115	Spring Washer (@4-No2)			○	93	
Q-1-7	18015SW-3111	Washer (4@-S)			○	93	
Q-1-8	18010AD-A021	Y-Axis Sash(R)				1	
Q-1-9	18020PR-A001	Right Corner Guide (R)				1	
Q-1-10	18025PR-A001	Right Corner Guide (F)				1	
Q-1-11	19002AD-D092	Rear Sash				1	
Q-1-12	GP-010409-00	Screw Bush C-1	Jul.04.05	X		92	
Q-1-13	19023AD-D092	Front Boder Frame Sash				1	
Q-1-14	18041AD-A021	Border Frame Sash (R)				1	
Q-1-15	18039AD-A021	Border Frame Sash (L)				1	
Q-1-16	19025AD-D092	Rear Boder Frame Sash				1	
Q-1-17	18050AF-A001	X-Axis Guide Rail				2	
Q-1-18	10500200B000	Felt Attachment				11	
Q-1-19	18060SC-3328	Tapping Screw (M4X110)			○	22	
Q-1-20	10500300B000	Front Felt (A)				11	
Q-1-21	18069SF-AA00	Front Felt (2)				40	
Q-1-22	18071SF-A001	Rear Felt (1)				30	
Q-1-23	18065SF-A001	Rear Felt (2)				3	
Q-1-24	18064SF-A001	Rear Felt (3)				2	
Q-1-25	18084PR-A001	Embroidery Frame Clip (300mm)				42	
	18085PR-A001	Embroidery Frame Clip				6	
Q-1-26	19001AD-D092	Front Sash				1	
Q-1-27	10006700B000	Bearing Connecting Block				6	
Q-1-28	18048SW-3115	Spring Washer (5@)			○	9	
Q-1-29	18047SC-7113	Hex. Socket Bolt (M5*L15)			○	9	
Q-1-30	18062SF-A001	Y-Axis Sash (L) Felt				1	
Q-1-31	10510500B000	Bearing Connecting Block Join				3	
Q-1-32	18067SC-7119	Hex. Socket Bolt (M5X16)			○	24	
Q-1-33	15077BR-B001	Ball Bearing (Lr606Nppu)			○	12	
Q-1-34	18062CW-A021	Rail Guide Pin "B"				3	
Q-1-35	18066CW-A021	Rail Guide Pin "A"				3	
Q-1-36	10510800B000	Roller Pin				6	

Q

[illegible]

Note

Q

Q-2

This exploded view diagram illustrates the assembly of the Q-2 unit. The components are labeled as follows:

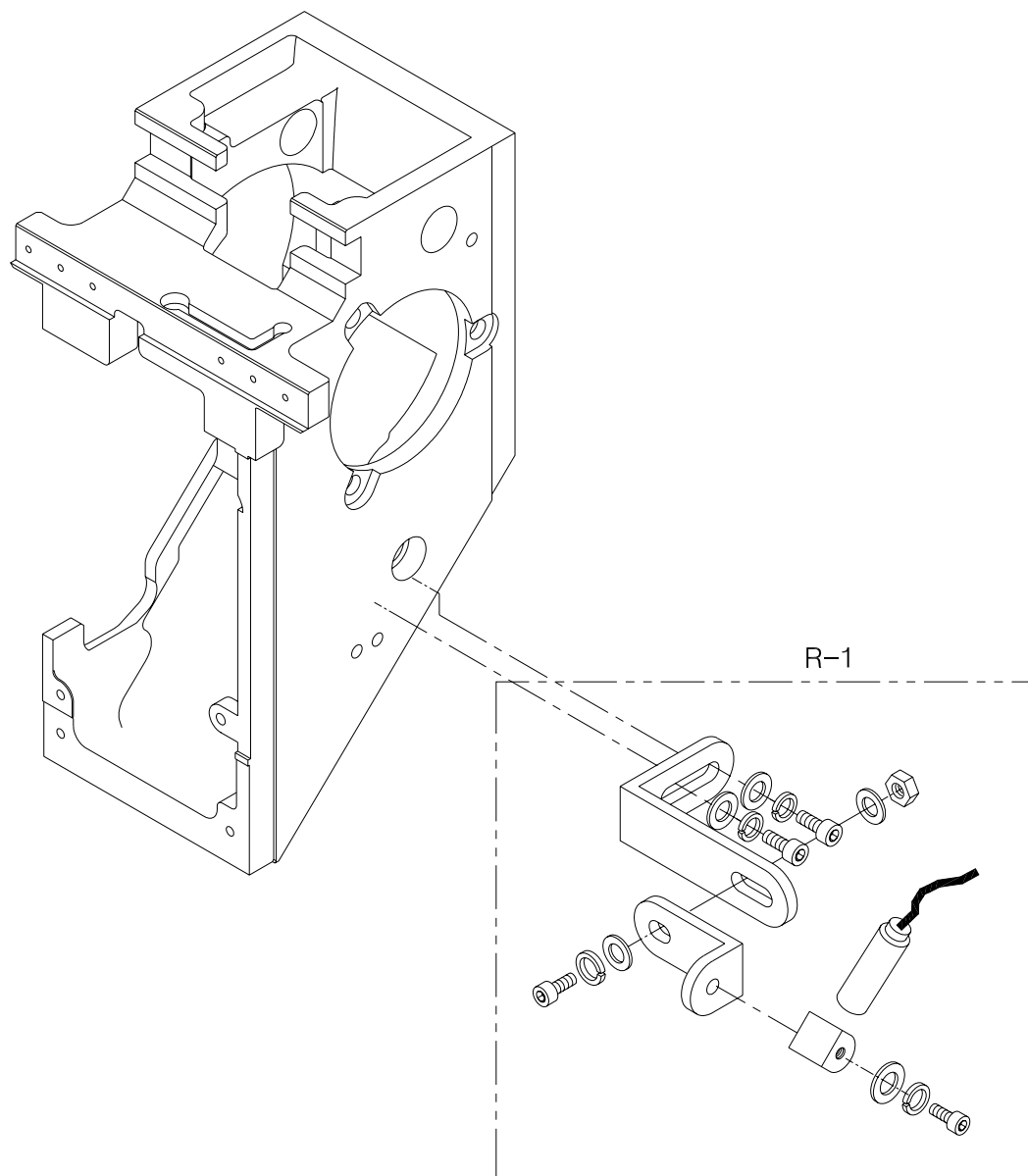
- Q-2-1**: The main horizontal rectangular body.
- Q-2-2**: A long, thin vertical support or guide rail.
- Q-2-3**: A small rectangular component with four mounting holes, located at the bottom right.
- Q-2-4**: A small cylindrical component with a flange, located near the center of the main body.
- Q-2-5**: A long, thin vertical component with a flange at the top, located at the top right.
- Q-2-6**: A small cylindrical component with a flange, located below Q-2-5.
- Q-2-7**: A small cylindrical component with a flange, located below Q-2-6.
- Q-2-8**: A small rectangular component with a flange, located at the top right.
- Q-2-9**: A small rectangular component with a flange, located at the bottom left.
- Q-2-10**: A small cylindrical component with a flange, located at the bottom left.
- Q-2-11**: A small cylindrical component with a flange, located at the bottom left.

The diagram shows the relative positions and orientations of these components, with lines indicating their assembly paths. A curved line is also shown passing over the main body, possibly representing a cable or hose.

Note



Option (Laser)



R-1

This diagram shows the exploded view of the R-1 assembly. The main component is a large, rectangular metal frame with a complex internal structure, including a central vertical support and a horizontal base. The frame is shown in a dashed outline, indicating its overall shape and the positions of various mounting points. A detailed view of the front panel assembly is shown in the lower right corner. This assembly includes a front panel (R-1-1) with a central rectangular cutout. The panel is secured by a series of screws (R-1-2, R-1-3, R-1-4) and a nut (R-1-11). A cable (R-1-7) is connected to the panel. The panel is also secured by a series of screws (R-1-5, R-1-6, R-1-7, R-1-8, R-1-9, R-1-10) and a nut (R-1-11). The front panel is mounted on a base (R-1-1) which is secured by a series of screws (R-1-2, R-1-3, R-1-4) and a nut (R-1-11). The front panel is also secured by a series of screws (R-1-5, R-1-6, R-1-7, R-1-8, R-1-9, R-1-10) and a nut (R-1-11).

Note	
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