

PARTS BOOK

MA-6

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.

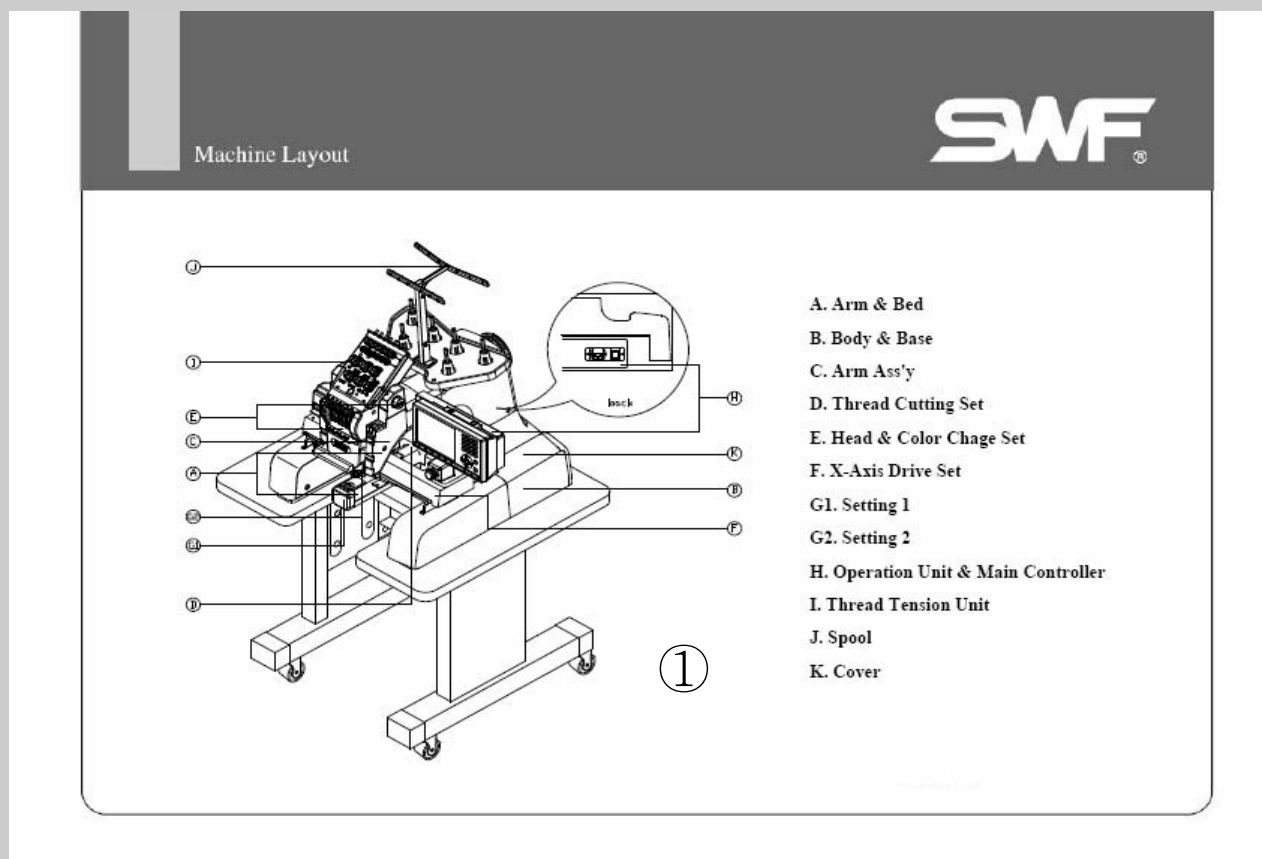
1. This is a parts book. It cannot be used as a manual.
2. The parts classified as ass'y items may cause damage to the machine or bad embroidery when they are separately assembled.
Hence, when they are ordered, they can be purchased as ass'y items only.
3. The Part Book is classified as below and users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

A. Structure of Part Book

1. Machine Layout

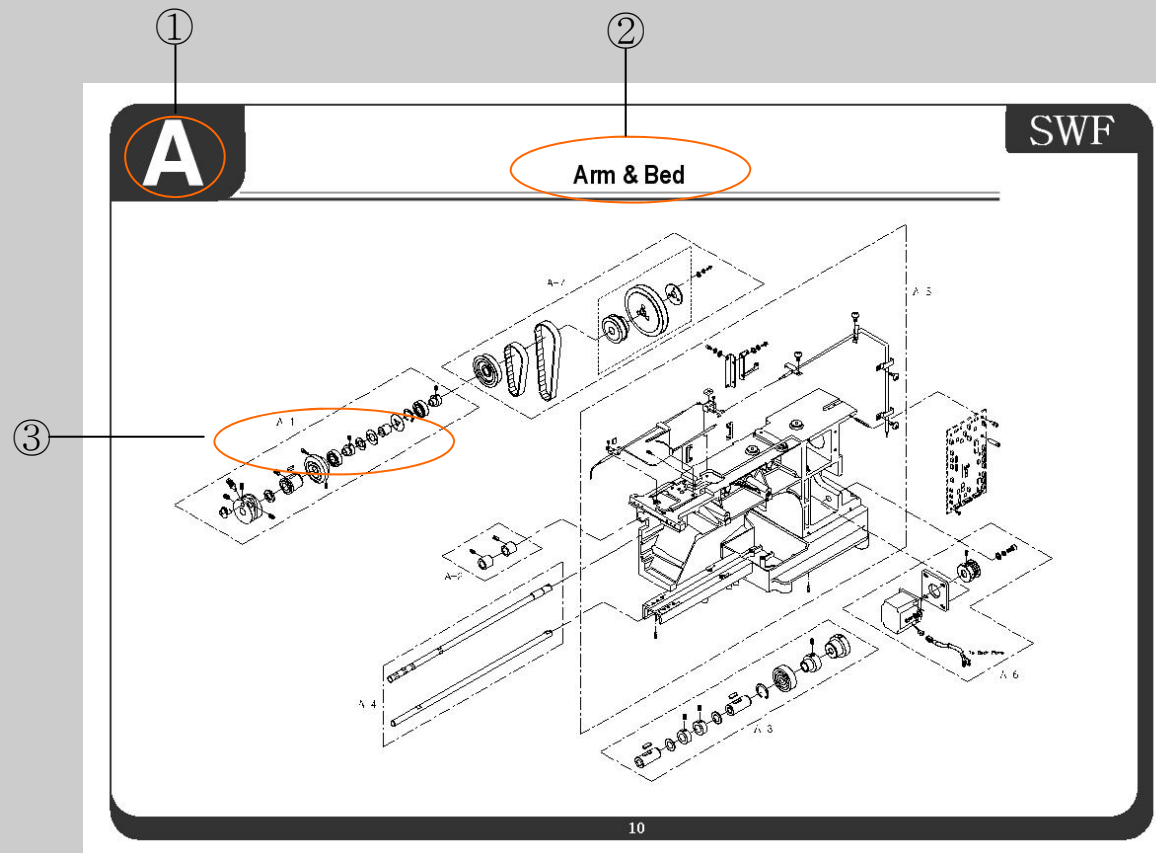


Information

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

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			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 (8/32x28L=17)			O	1	
A-1-5	0101SCM-T121	Hex. Socket Set Screw (1/4" 3x40 L=4.5)				1	
A-1-6	0102PBR-A001	Washer				2	
A-1-7	0102PBR-A001	Washer				1	
A-1-8	0102PBR-T900	Needle Bar Crank				1	
A-1-9	0101SCM-T121	Upper Shaft Pinhole (P)				1	
A-1-10	0101SCM-T121	Screw (1/8x28 L=14)			O	3	
A-1-11	0101SCM-T121	Felt				1	
A-1-12	0101SCM-T121	Presser Foot Driving Cam				1	
A-1-13	0401ZAP-A001	Screw (1/8x28)			O	3	
A-1-14	0101SCM-T121	Screw (M4xL20)			O	1	
A-1-15	0102PBR-A001	Washer (600422)				1	
A-1-16	010000001000	Washer Collar				2	
A-1-17	0401ZAP-A001	Screw (1/8x28)			O	3	
A-1-18	WS-0001BR-00	Washer			O	1	
A-1-19	CL-000097-00	Code Wheel				1	
A-1-20	CL-000097-00	Collar				1	
A-1-21	0101SCM-T121	Technical Pin				1	
A-1-22	0101SCM-T121	C-Ridge (1/4x7)			O	1	
A-1-23	0101SCM-T121	Washer (600422)			O	1	

(Note) * : Checks the timing of application.

① Index Number
Ex) A-1, A-2...

② Parts 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.

⑧ Hardware : 시중에서 구매 할 수 있는 부품

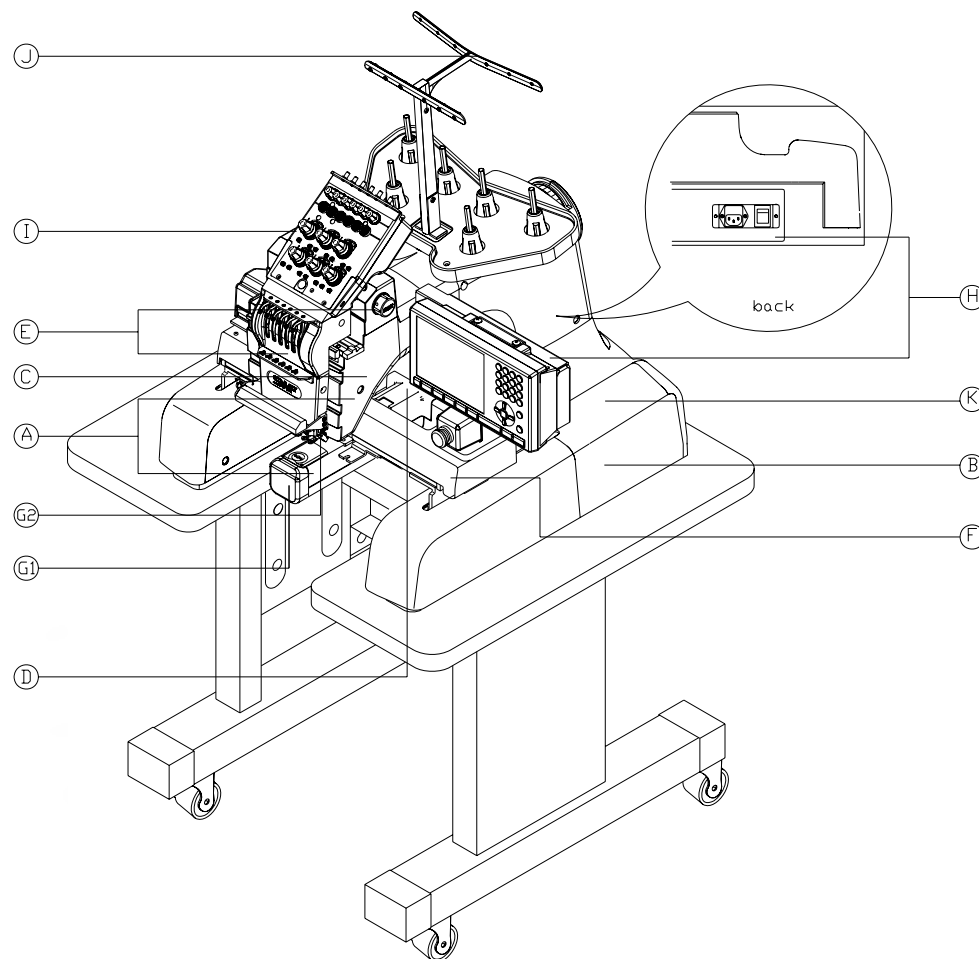
: Parts that can be purchased in the market

⑨ Q'ty : 사용 파트의 수량을 표기

: Quantity of part

⑩ Remark

⑪ Index Number



A. Arm & Bed

B. Body & Base

C. Arm Ass'y

D. Thread Cutting Set

E. Head & Color Chage Set

F. X-Axis Drive Set

G1. Setting 1

G2. Setting 2

H. Operation Unit & Main Controller

I. Thread Tension Unit

J. Spool

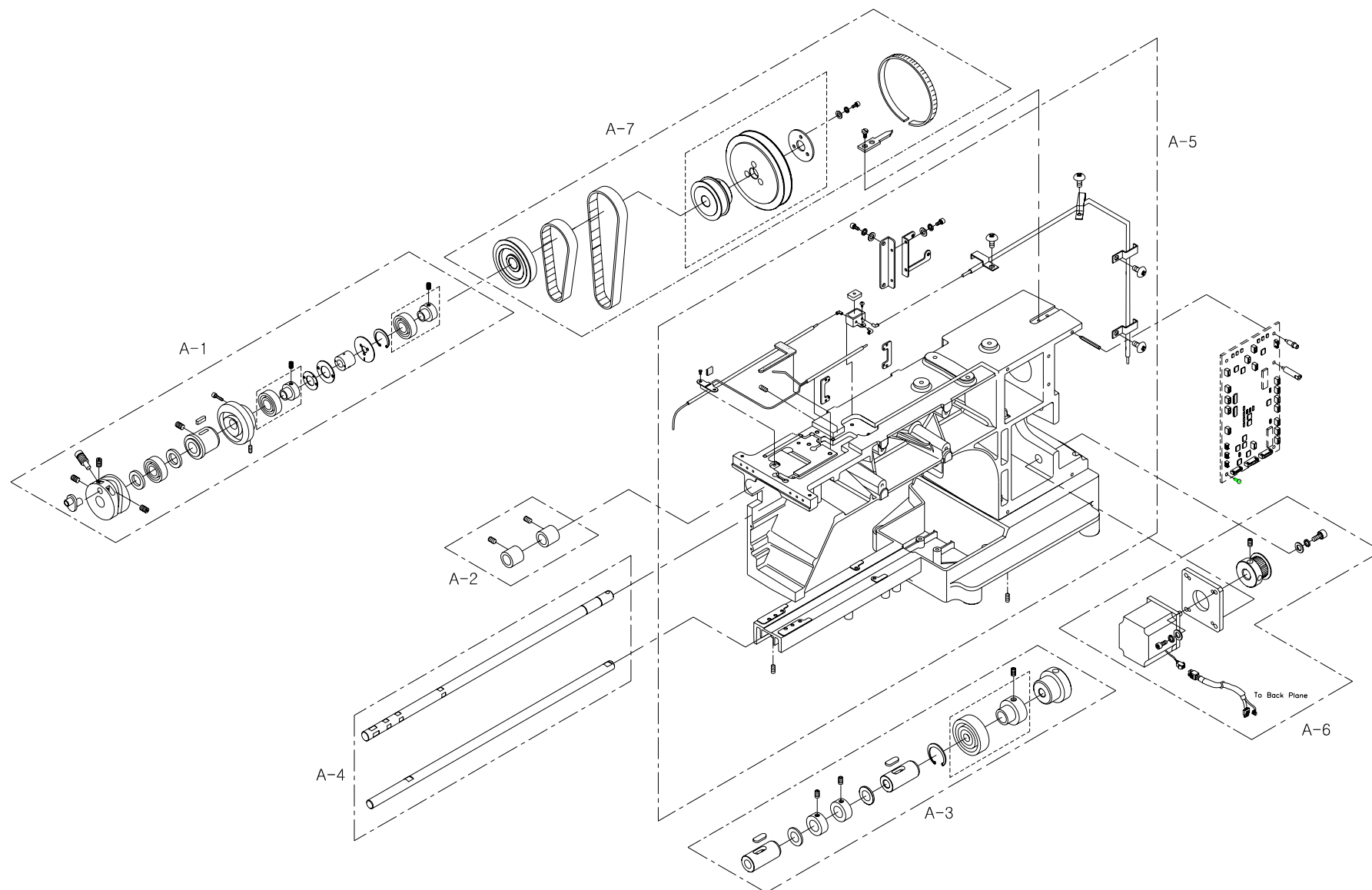
K. Cover



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Arm & Bed



A-1

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

- A-1-1:** Main housing or base plate.
- A-1-2:** Bolt for the main housing.
- A-1-3:** Bolt for the main housing.
- A-1-4:** Bolt for the main housing.
- A-1-5:** Washer or spacer.
- A-1-6:** Washer or spacer.
- A-1-7:** Bolt for the main housing.
- A-1-8:** Motor or actuator unit.
- A-1-9:** Bolt for the motor unit.
- A-1-10:** Washer or spacer.
- A-1-11:** Bolt for the main housing.
- A-1-12:** Bolt for the main housing.
- A-1-13:** Bolt for the main housing.
- A-1-14:** Washer or spacer.
- A-1-15:** Bolt for the motor unit.
- A-1-16:** Bolt for the motor unit.
- A-1-17:** Washer or spacer.
- A-1-18:** Washer or spacer.
- A-1-19:** Bolt for the motor unit.
- A-1-20:** Bolt for the motor unit.
- A-1-21:** Washer or spacer.
- A-1-22:** Washer or spacer.

The diagram shows the assembly of the main housing (A-1-1) with the motor unit (A-1-8) and the mounting bracket (A-1-14). The motor unit is secured with bolts (A-1-9, A-1-10, A-1-15, A-1-16, A-1-19, A-1-20) and washers/spacers (A-1-5, A-1-6, A-1-17, A-1-18, A-1-21, A-1-22). The mounting bracket is secured with bolts (A-1-11, A-1-12, A-1-13) and washers/spacers (A-1-14, A-1-15, A-1-16, A-1-17, A-1-18, A-1-19, A-1-20, A-1-21, A-1-22).

Note

A

A-2

This diagram illustrates the assembly of the A-2 component. It shows a main housing with a rectangular opening. Three sub-components are shown being inserted into this opening: A-2-1 (a cylindrical part), A-2-2 (a larger cylindrical part), and A-2-3 (a small pin or screw). Dashed lines indicate the assembly path and the final position of the components within the housing. A separate component, possibly a lever or handle, is shown at the bottom left, also with dashed lines indicating its connection point to the main assembly.

Note

[illegible]

A

A-3

This exploded view diagram illustrates the assembly of the A-3 component. The parts are arranged in a linear sequence from left to right, connected by dashed lines indicating their relative positions and assembly order. The components are labeled as follows:

- A-3-1**: A long, hollow cylindrical tube.
- A-3-2**: A small, flat, circular washer or spacer.
- A-3-3**: A small, flat, circular washer or spacer.
- A-3-4**: A small, flat, circular washer or spacer.
- A-3-5**: A small, flat, circular washer or spacer.
- A-3-6**: A small, flat, circular washer or spacer.
- A-3-7**: A small, flat, circular washer or spacer.
- A-3-8**: A large, hollow cylindrical tube with a flange on one end.
- A-3-9**: A small, flat, circular washer or spacer.
- A-3-10**: A small, flat, circular washer or spacer.
- A-3-11**: A small, flat, circular washer or spacer.

The diagram shows the assembly of the A-3 component, which is a long, hollow cylindrical tube. The assembly is shown in an exploded view, with the components labeled A-3-1 through A-3-11. The components are arranged in a linear sequence, with A-3-1 being the main body and the other parts being various washers, spacers, and end fittings. The diagram is a technical drawing, likely from a manual or catalog, showing the exploded view of the assembly.

Note

A

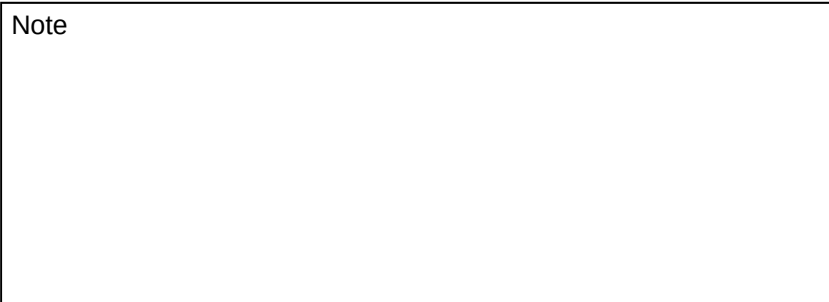
A-4

This technical drawing shows an exploded view of a mechanical assembly. Two long shafts, labeled A-4-1 and A-4-2, are shown in their original positions. Shaft A-4-1 is positioned to be inserted into a component that is partially exploded from the main assembly. Shaft A-4-2 is positioned to be inserted into a different component of the assembly. The main assembly consists of several interconnected parts, including a large central housing and various smaller components like gears and bearings. Dashed lines indicate the intended assembly path for the shafts.

Note

[illegible]

A

[illegible]

A

16

A-7

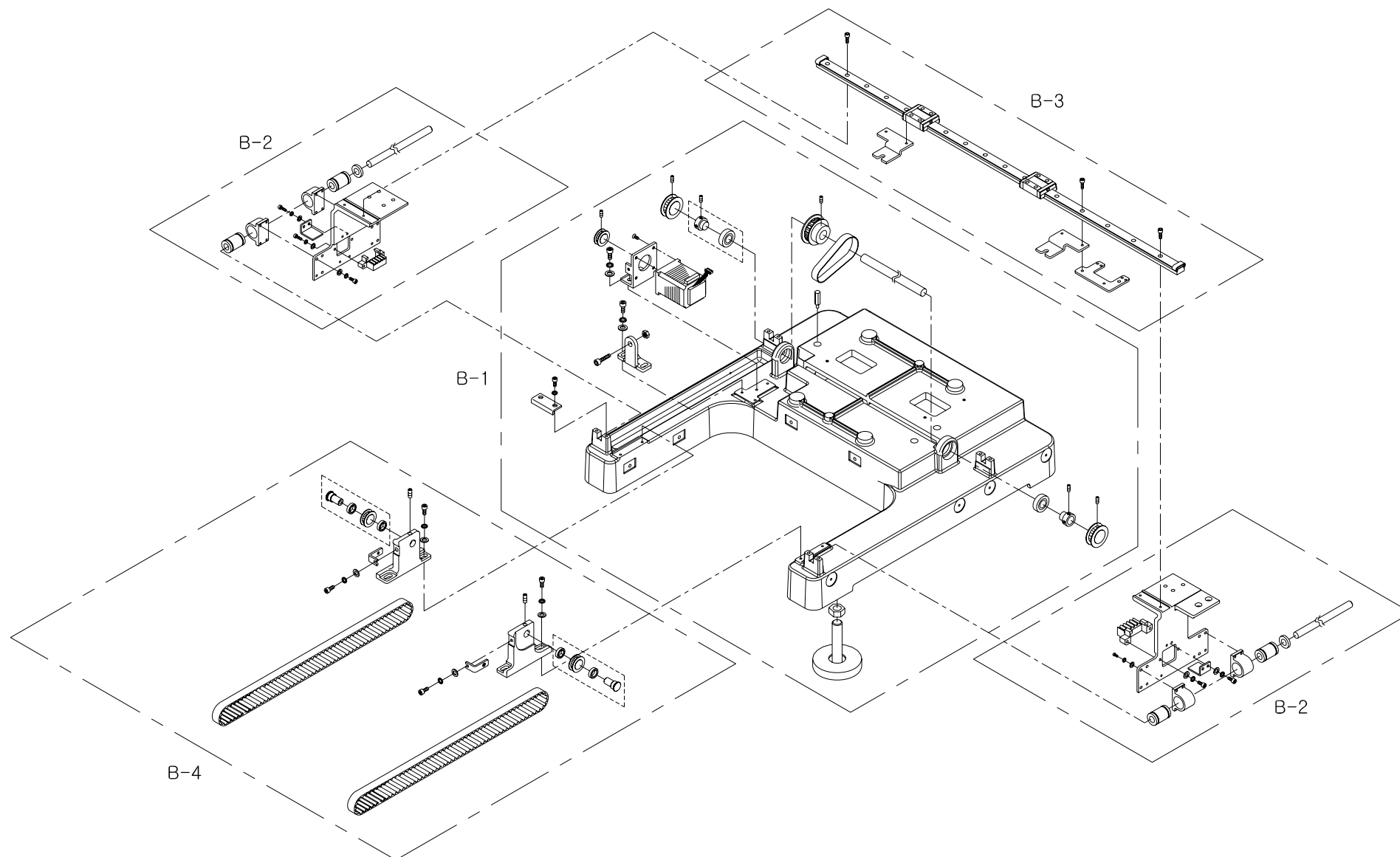
This exploded view diagram illustrates the assembly of the A-7 engine. The main components are shown in their relative positions, with dashed lines indicating the assembly path. The components are labeled as follows:

- A-7-1**: A circular component, likely a pulley or flywheel, mounted on the crankshaft.
- A-7-2**: A component with a series of vertical slots, possibly a timing belt or a guide.
- A-7-3**: A component with a series of horizontal slots, possibly a timing belt or a guide.
- A-7-4**: A circular component, likely a pulley or flywheel, mounted on the crankshaft.
- A-7-4-1**: A small circular component, possibly a pulley or a guide.
- A-7-4-2**: A small circular component, possibly a pulley or a guide.
- A-7-4-3**: A small circular component, possibly a pulley or a guide.
- A-7-5**: A small circular component, possibly a pulley or a guide.
- A-7-6**: A small circular component, possibly a pulley or a guide.
- A-7-7**: A small circular component, possibly a pulley or a guide.
- A-7-8**: A small circular component, possibly a pulley or a guide.
- A-7-9**: A small circular component, possibly a pulley or a guide.
- A-7-10**: A circular component, likely a pulley or flywheel, mounted on the crankshaft.

Note

A

Body & Base



B-1

Exploded view diagram of a mechanical assembly, likely a door handle or latch mechanism. The diagram shows the main body (B-1-1) and various components being assembled onto it. Key parts include:

- B-1-2: A vertical rod with a circular base.
- B-1-3: A small pin.
- B-1-4: A small circular component.
- B-1-5: A long pin.
- B-1-6: A circular component.
- B-1-7: A circular component.
- B-1-8: A small circular component.
- B-1-9: A small circular component.
- B-1-10: A small circular component.
- B-1-11: A small circular component.
- B-1-12: A small circular component.
- B-1-13: A small circular component.
- B-1-14: A small circular component.
- B-1-15: A small circular component.
- B-1-16: A small circular component.
- B-1-17: A small circular component.
- B-1-18: A small circular component.
- B-1-19: A small circular component.
- B-1-20: A small circular component.
- B-1-21: A small circular component.
- B-1-22: A small circular component.
- B-1-23: A small circular component.
- B-1-24: A small circular component.
- B-1-25: A small circular component.

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

Note



This diagram illustrates the exploded view of a mechanical assembly. The components are labeled as follows:

- B-2-1**: Main rectangular plate with mounting holes.
- B-2-2**: Secondary rectangular plate with mounting holes.
- B-2-3**: Small cylindrical component.
- B-2-4**: Small cylindrical component.
- B-2-5**: Small cylindrical component.
- B-2-6**: Small cylindrical component.
- B-2-7**: Small rectangular component.
- B-2-8**: Small rectangular component.
- B-2-9**: Small rectangular component.
- B-2-10**: Small rectangular component.
- B-2-11**: Small rectangular component.
- B-2-12**: Small rectangular component.

The diagram shows the assembly sequence and relative positions of these components. Dashed lines indicate the alignment and assembly path for the parts. The components are arranged in a hierarchical manner, showing how they fit together to form the final assembly.

Note

[illegible]

This diagram illustrates the assembly of a metal frame. The main component is a long horizontal rail, labeled B-3-1. Two vertical end rails, labeled B-3-2 and B-3-3, are shown being attached to the ends of the main rail. A central vertical support, labeled B-3-4, is also shown. Five screws, labeled B-3-5, are used to secure the assembly: two at each end of the main rail and one in the center. The diagram uses dashed lines to show the alignment and assembly path of the components.

Note

[illegible]

B-4

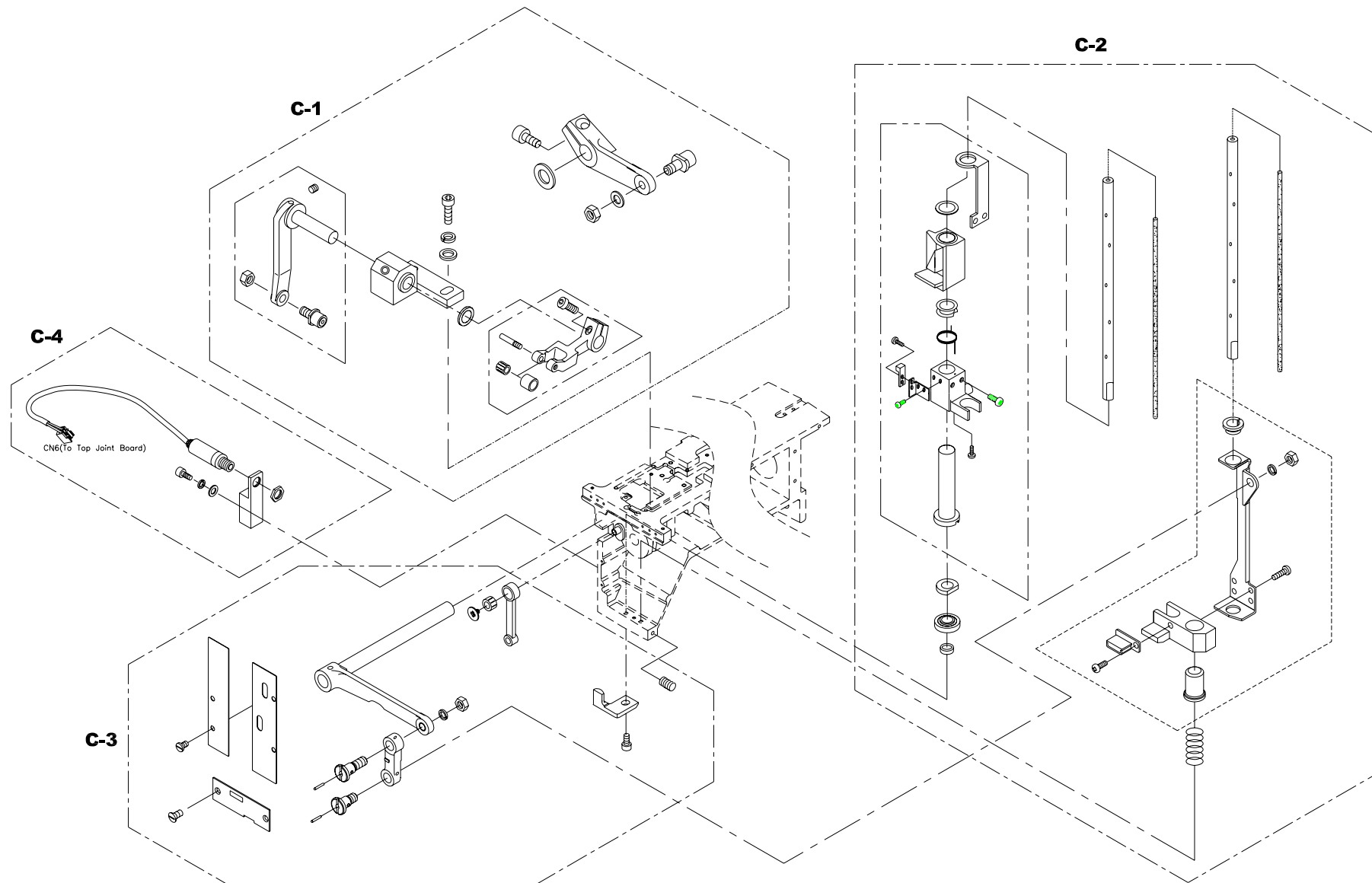
The diagram illustrates the assembly of the B-4 unit, showing the following components and their assembly sequence:

- Top Section:** Components B-4-5, B-4-3, B-4-4, and B-4-3 are shown in a dashed box, indicating they are assembled first.
- Mounting Brackets:** Components B-4-10, B-4-7, B-4-8, and B-4-9 are shown being attached to the main structure.
- Longitudinal Components:** Components B-4-6, B-4-9, B-4-8, and B-4-7 are shown being attached to the main structure.
- Bottom Section:** Components B-4-11 and B-4-10 are shown being attached to the main structure.
- Final Assembly:** Components B-4-9, B-4-8, and B-4-7 are shown being attached to the main structure.
- Right Section:** Components B-4-3, B-4-4, and B-4-5 are shown being attached to the main structure.

Note



Arm Ass'y



C-1

This exploded view diagram illustrates the assembly of the C-1 component. The diagram shows the following parts and their assembly sequence:

- C-1-1**: The main housing or base component.
- C-1-1-1**, **C-1-1-2**, **C-1-1-3**, and **C-1-1-4**: Sub-components that fit into the main housing.
- C-1-2**: A bracket or support piece that is attached to the main housing.
- C-1-3**, **C-1-4**, and **C-1-5**: A series of small components, possibly a spring or a pin, that are assembled onto the bracket.
- C-1-6-1**, **C-1-6-2**, **C-1-6-3**, and **C-1-6-4**: A series of components that form a lever or arm assembly, which is attached to the main housing.
- C-1-7**, **C-1-8**, **C-1-9**, **C-1-10**, **C-1-11**, and **C-1-12**: A series of components that form a separate assembly, possibly a handle or a control mechanism, which is attached to the main housing.

Note



C-2

The diagram illustrates the assembly of the C-2 component, showing various parts and their assembly sequence. The components are labeled as follows:

- C-2-10
- C-2-10-1
- C-2-10-2
- C-2-10-3
- C-2-10-4
- C-2-10-5
- C-2-10-6
- C-2-10-7
- C-2-10-8
- C-2-10-9
- C-2-10-10
- C-2-10-11
- C-2-10-12
- C-2-10-13
- C-2-11
- C-2-12
- C-2-13
- C-2-9
- C-2-2
- C-2-6
- C-2-7
- C-2-1
- C-2-8
- C-2-3
- C-2-5
- C-2-4
- C-2-14

The diagram shows the assembly of the C-2 component, including the main body (C-2-1), the C-2-10 assembly, and the C-2-9 assembly. The C-2-10 assembly is shown in a dashed box, and the C-2-9 assembly is shown in a solid box. The C-2-14 component is shown as a separate part.

Note



C-3

This diagram illustrates the assembly of the C-3 engine. The components are labeled as follows:

- C-3-1**: Main engine block.
- C-3-2**: Piston and connecting rod assembly.
- C-3-3**: Piston pin.
- C-3-4**: Piston pin clip.
- C-3-5**: Piston pin clip.
- C-3-6**: Piston pin clip.
- C-3-7**: Piston pin clip.
- C-3-8**: Piston pin clip.
- C-3-9**: Piston pin clip.
- C-3-10**: Piston pin clip.
- C-3-11**: Piston pin clip.
- C-3-12**: Piston pin clip.
- C-3-13**: Piston pin clip.
- C-3-14**: Piston pin clip.
- C-3-15**: Piston pin clip.
- C-3-16**: Piston pin clip.
- C-3-17**: Piston pin clip.

The diagram shows the assembly sequence for the C-3 engine, with components labeled C-3-1 through C-3-17. The main engine block (C-3-1) is shown with various components being assembled onto it. The piston and connecting rod assembly (C-3-2) is shown being installed into the main block. The piston pin (C-3-3) is shown being inserted into the piston and connecting rod. The piston pin clip (C-3-4) is shown being installed onto the piston pin. The piston pin clip (C-3-5) is shown being installed onto the piston pin. The piston pin clip (C-3-6) is shown being installed onto the piston pin. The piston pin clip (C-3-7) is shown being installed onto the piston pin. The piston pin clip (C-3-8) is shown being installed onto the piston pin. The piston pin clip (C-3-9) is shown being installed onto the piston pin. The piston pin clip (C-3-10) is shown being installed onto the piston pin. The piston pin clip (C-3-11) is shown being installed onto the piston pin. The piston pin clip (C-3-12) is shown being installed onto the piston pin. The piston pin clip (C-3-13) is shown being installed onto the piston pin. The piston pin clip (C-3-14) is shown being installed onto the piston pin. The piston pin clip (C-3-15) is shown being installed onto the piston pin. The piston pin clip (C-3-16) is shown being installed onto the piston pin. The piston pin clip (C-3-17) is shown being installed onto the piston pin.

Note



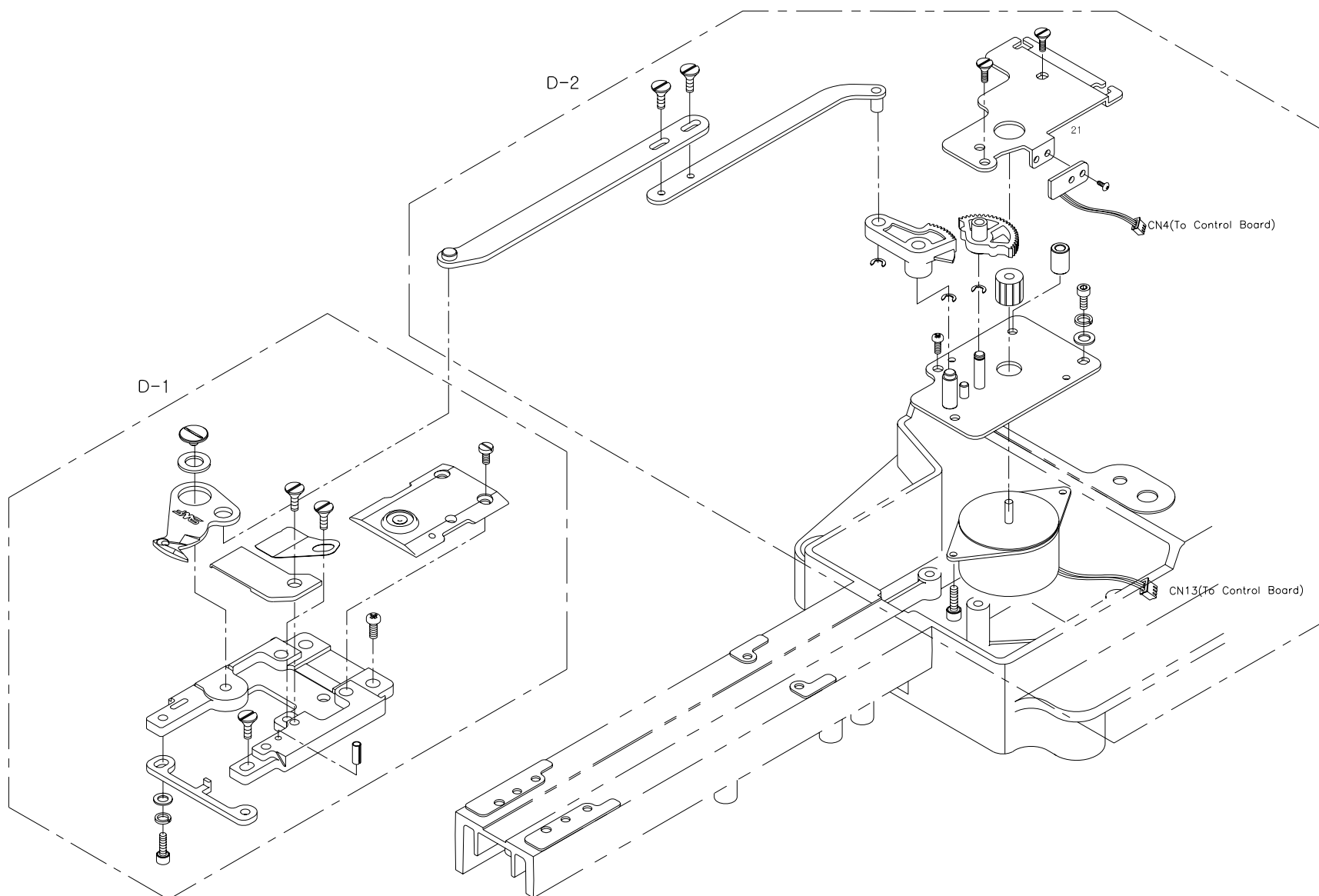
C-4

Diagram illustrating the assembly of the C-4 component. The assembly includes a cable connected to a connector labeled **CN6(To Top Joint Board)**. The cable is connected to a cylindrical component labeled **C-4-1**. This component is then connected to a bracket labeled **C-4-2**. The bracket is secured by a screw labeled **C-4-3**, a washer labeled **C-4-4**, and a nut labeled **C-4-5**. The bracket is then connected to a larger component labeled **C-4-6**, which is shown in an exploded view relative to the main unit.

Note



Thread Cutting Set



D-1

This exploded view diagram illustrates the assembly of a mechanical component, likely a bracket or support. The components are labeled as follows:

- D-1-1**: The main base plate, a large L-shaped metal piece with multiple mounting holes.
- D-1-2**: A screw used to secure the base plate to a surface.
- D-1-3**: A small metal plate or gasket that fits into a slot on the base plate.
- D-1-4**: A washer or spacer ring that sits between the base plate and the next component.
- D-1-5**: A circular cap or cover that fits over the top of the assembly.
- D-1-6**: A rectangular metal plate that fits into a recessed area of the base plate.
- D-1-7**: A small metal plate or gasket that fits between the base plate and the rectangular plate.
- D-1-8**: Two screws used to secure the rectangular plate to the base plate.
- D-1-9**: A screw used to secure the circular cap to the top of the assembly.
- D-1-10**: A small cylindrical pin or dowel that fits into a hole in the base plate.
- D-1-11**: A screw used to secure the base plate to a surface.
- D-1-12**: A washer or spacer ring that sits between the base plate and the next component.
- D-1-13**: A circular cap or cover that fits over the bottom of the assembly.

The diagram uses dashed lines to show the alignment and assembly sequence of the parts.

Note

D

D-2

This exploded view diagram illustrates the assembly of the D-2 component. The parts are labeled as follows:

- D-2-6: A long, curved metal arm.
- D-2-7: A bracket or support piece.
- D-2-8: Two screws used to secure D-2-7 to D-2-6.
- D-2-2: A small, curved metal piece.
- D-2-9: A small metal bracket or support.
- D-2-3: A small metal bracket or support.
- D-2-1: A small metal bracket or support.
- D-2-10: A small metal bracket or support.
- D-2-12: A small metal bracket or support.
- D-2-13: A small metal bracket or support.
- D-2-14: A small metal bracket or support.
- D-2-16: A small metal bracket or support.
- D-2-5: A small metal bracket or support.
- D-2-17: A small metal bracket or support.
- D-2-11: A small metal bracket or support.
- D-2-4: A small metal bracket or support.
- D-2-15: A small metal bracket or support.

Wiring connections are indicated by arrows and labels:

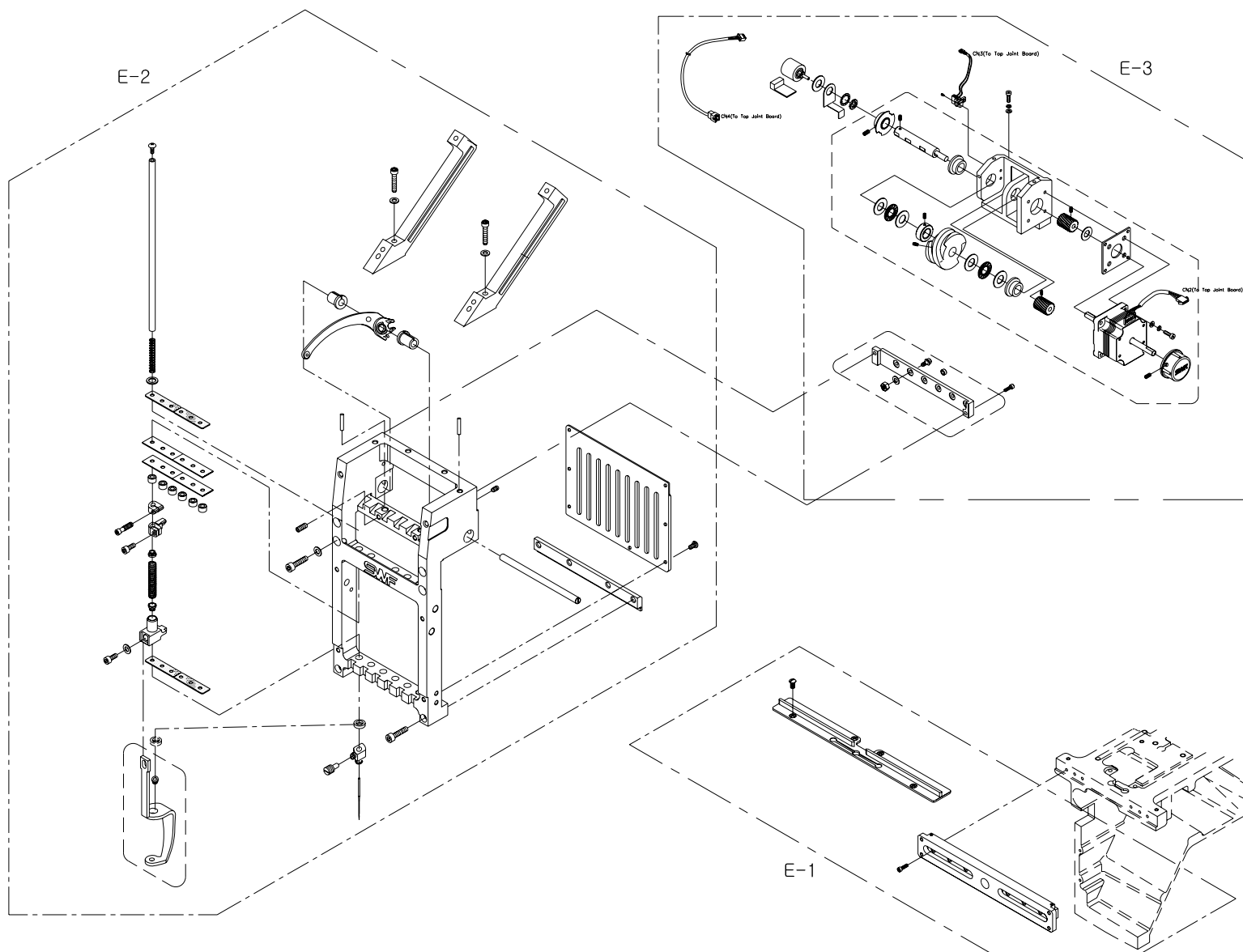
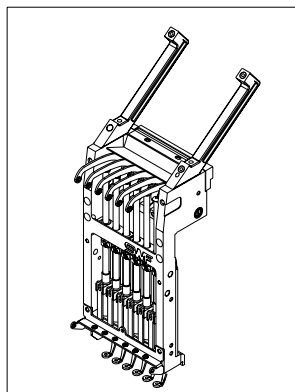
- CH4(To Control Board) is connected to D-2-11.
- CH13(To Control Board) is connected to D-2-4.

The diagram shows the assembly being mounted onto a larger metal structure, likely a control board or chassis, with dashed lines indicating the alignment and placement of the components.

Note

D

Head & Color Change



E-1

This diagram illustrates the assembly of a mechanical component, likely a door or panel, onto a main housing. The components are labeled as follows:

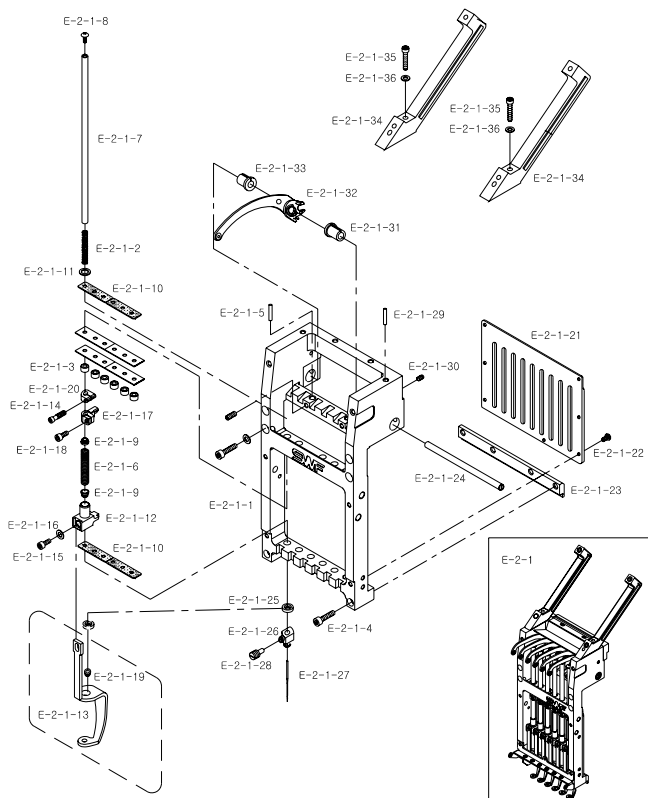
- E-1-1**: A long, thin metal bracket or rail with multiple mounting holes.
- E-1-2**: A small screw or fastener used to secure E-1-1.
- E-1-3**: A longer metal bracket or rail, similar to E-1-1 but with different internal features and mounting holes.
- E-1-4**: A small screw or fastener used to secure E-1-3.

The main housing is a complex, multi-faceted metal structure. Dashed lines indicate the alignment and placement of the brackets (E-1-1 and E-1-3) relative to the housing, showing they are intended to be mounted to the side or rear of the assembly.

Note

[illegible]

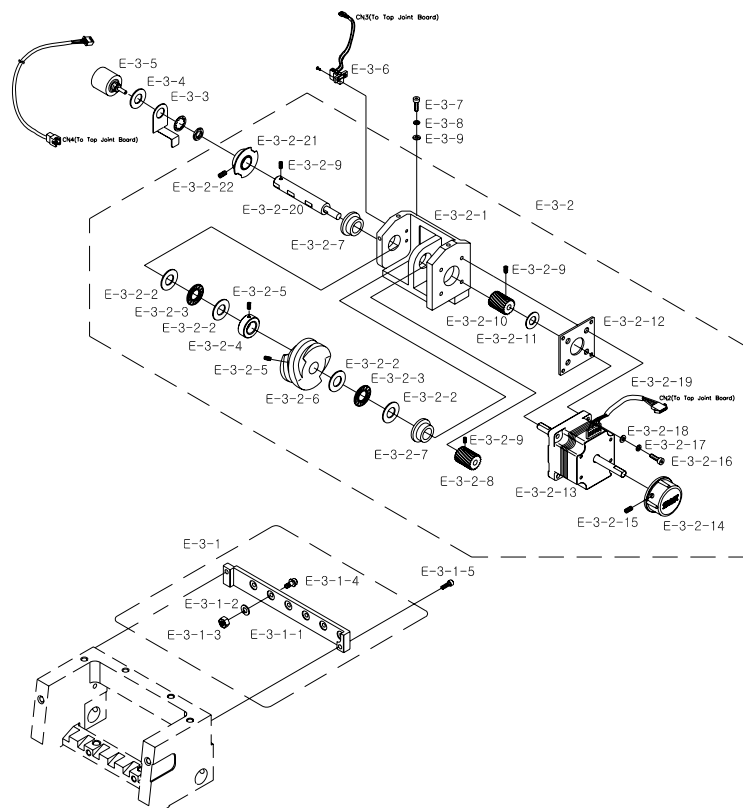
E-2



Note

Ref.No	Part No.	Part Name	Applied Period	Interchangeability	Hardware	Q'ty	Remark
E-2-1	AS-004322-00	Head Set				1	
E-2-1-1	GP-015101-00	Head	Feb,09,06 ~			1	
	GP-015101-01		Mar,26,07 ~				
	GP-015101-02		Sep,17,08 ~				
	GP-015101-03		Nov,03,08 ~				
	GP-015101-04		Nov,02,09 ~				
E-2-1-2	05008AF-T121	Needle Bar Return Spring				6	
E-2-1-3	05011RB-T121	Needle Bar Cushion Rubber				6	
E-2-1-4	05014SC-7113	Screw (M4*L25)			O	2	
E-2-1-5	05015CW-A001	Head Base Pin(@5*L15)				2	
E-2-1-6	05017AF-T121	Presser Foot Pressure Spring				6	
E-2-1-7	05018CW-T902	Needle Bar				6	
E-2-1-8	05019SC-A001	Needle Bar Cover Screw (M5*L6)			O	6	
E-2-1-9	05021PM-H001	Presser Foot Spring Guide				12	
E-2-1-10	05021SF-A001	Felt				4	
E-2-1-11	05022SW-A001	Spring Shoe Washer				6	
E-2-1-12	05023PM-H001	Presser Foot Holder Set				6	
E-2-1-13	05024PR-T902	Presser Foot L=95				6	
E-2-1-14	05026SC-4113	Upper Dead Center Stopper Screw				6	
E-2-1-15	05026SC-H001	Presser Foot Holder Screw				6	
E-2-1-16	05027PR-H001	Presser Foot Holder Washer				6	
E-2-1-17	05027FU-T902	Needle Bar Holder				6	
E-2-1-18	05028SC-4113	Holder Screw				6	
E-2-1-19	05031AF-A001	Presser Foot Guide Bush				6	
E-2-1-20	11101200T000	Upper Dead Point Stopper				6	
E-2-1-21	05031PM-CT06	Needle Bar Guide Rail (6C)				1	
E-2-1-22	05041SC-A001	Guide Rail Serew (9/64",n=40)			O	7	
E-2-1-23	08201302T902	Head Rail (6C)				1	
E-2-1-24	08200602A000	Take-Up Lever Shaft (6C)				1	
E-2-1-25	05035RB-A001	Presser Foot Cushion Rubber"A				6	
E-2-1-26	AS-007679-00	Needle Fixed Holder				6	
E-2-1-27	05037DB-A001	Needle (DB-K5,#11)				6	
E-2-1-28	05363SC-A001	Needle Fixed Screw (A/S)				6	
E-2-1-29	11027CW-A001	Tension Plate Pin (@3.5*L10)			O	2	
E-2-1-30	07009SC-4517	Hex.Socket Set Screw (M5*L6)			O	2	
E-2-1-31	08200800A000	Take-Up Lever Shaft Bush (R)				1	
E-2-1-32	07005BM-B002	Take-Up Lever Set				6	
E-2-1-33	08203000A000	Take-Up Lever Shaft Bush (L)				1	
E-2-1-34	GP-004682-00	Tension Adjusting Plate Holder				2	
E-2-1-35	11029SC-7113	Serew(M4*L20)			O	2	
E-2-1-36	06003SW-2111	Washer (@4)			O	2	

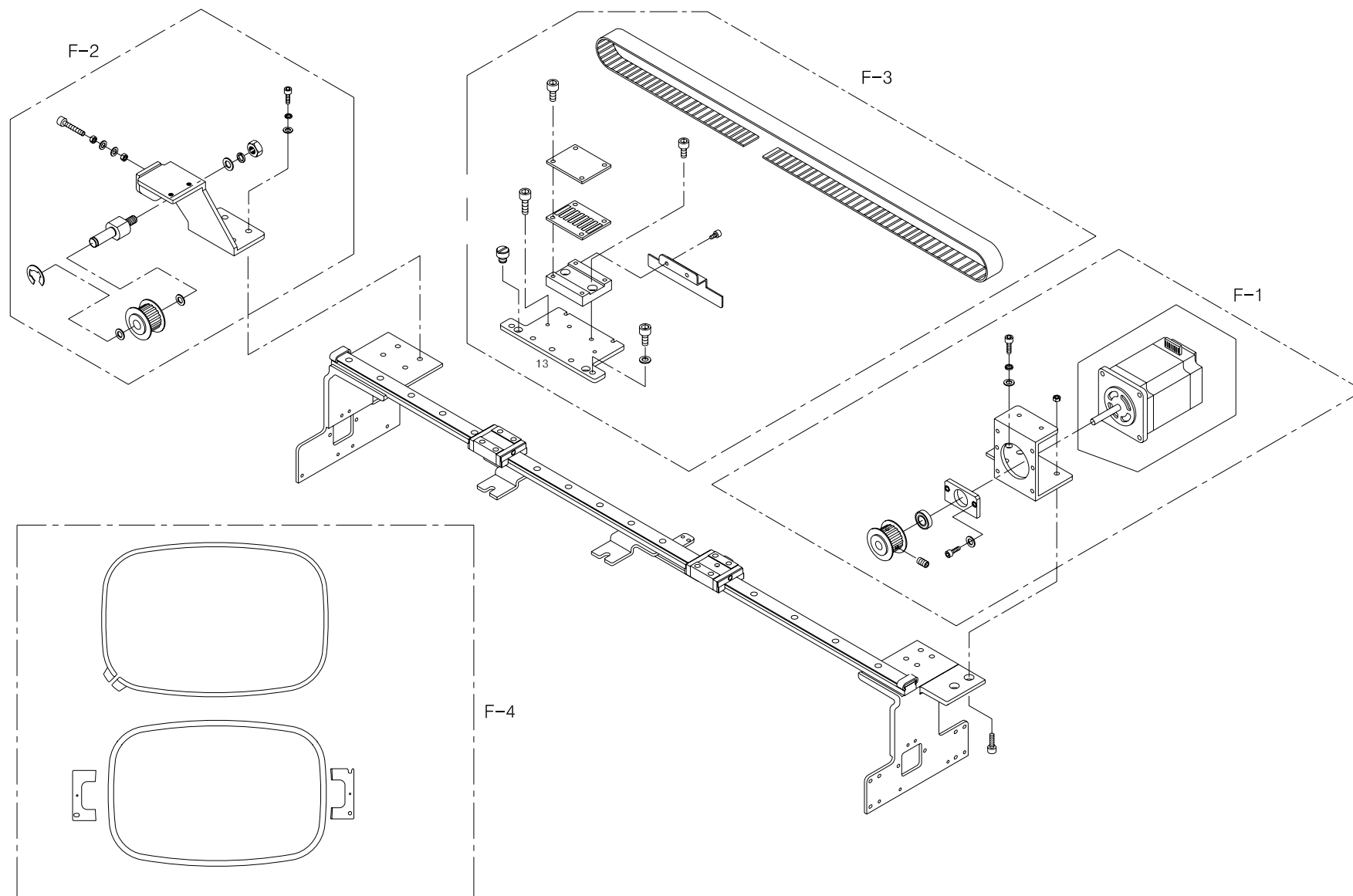
E-3



Note

Ref.No	Part No.	Part Name	Applied Period	Interchangeability	Hardware	Q'ty	Remark
E-3-1	05000002U000	C/C Roller Base Set				1	
E-3-1-1	08103102C010	Color Change Roller Base				1	
E-3-1-2	18048SW-3115	Spring Washer (5@)			O	6	
E-3-1-3	18083SN-3211	Hex.Nut (M5)			O	6	
E-3-1-4	GP-037692-00	Color Change Roller				6	
E-3-1-5	08076SC-7113	Screw (M5*L12)			O	2	
E-3-2	AS-005420-00	Color Change Motor Set				1	
E-3-2-1	GP-016511-00	Color Change Base	Mar,21,06 ~	X		1	
	GP-016511-01		Jan,13,09 ~	△			
	GP-016511-02		Nov,13,09 ~	△			
E-3-2-2	13010BR-T121	Washer				4	
E-3-2-3	13041BR-UK01	Washer				2	
E-3-2-4	08101100T010	Color Change Collar				1	
E-3-2-5	04012AF-A001	Screw (15/64-N28)			O	4	
E-3-2-6	13005CM-UK06	Color Change Cam				1	
E-3-2-7	GP-006252-00	Color Change Bushing				2	
E-3-2-8	08104900T902	Color Change Gear				1	
E-3-2-9	08113SC-A001	Screw (11/64,N=40,L6)			O	5	
E-3-2-10	GP-016811-00	Color Change Gear (L)				1	
E-3-2-11	08102000T010	Color Change Motor Washer				2	
E-3-2-12	GP-017091-01	Color Change Motor Plate				1	
E-3-2-13	MO-000041-00	Color Change Motor				1	
E-3-2-14	GP-016809-00	Color Change Passivity Knob Ass'y				1	
E-3-2-15	03022SC-4517	Hex. Socket Set Screw(M4*L5)			O	2	
E-3-2-16	07016SC-7113	Hex.Socket Bolt (M4*L12)			O	4	
E-3-2-17	18014SW-3115	Spring Washer (@4)			O	4	
E-3-2-18	18015SW-3111	Washer (@4)			O	4	
E-3-2-19	CA-002344-00	Cable				1	
E-3-2-20	08100700T902	Color Change Shaft				1	
E-3-2-21	13032AD-UK06	Color Change Film Set			O	1	
E-3-2-22	04014SC-4517	Screw (M5*L5)			O	2	
E-3-3	13015PR-UK06	Potentiometer Bracket				1	
E-3-4	15014PR-T121	Potentiometer Washer				1	
E-3-5	15012MT-T902	Potentiometer (7824 R1K L25)				1	
E-3-6	08102300T902	Half Turn Sensor (Gp1S51V)				1	
E-3-7	03016SC-4113	Hex. Socket Bolt (M5*L15)			O	4	
E-3-8	18048SW-3115	Spring Washer (@5)			O	4	
E-3-9	16018SW-1111	Washer (@5)			O	4	

X-Axis Drive Set



F-1

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

- F-1-1**: The main rectangular housing or motor unit, shown in a dashed box.
- F-1-2**: A square mounting bracket that fits onto the front of F-1-1.
- F-1-3**: A small rectangular plate that fits into the center of F-1-2.
- F-1-4**: A small screw used to secure F-1-3 to F-1-2.
- F-1-5**: A small pin or spacer located between F-1-3 and F-1-6.
- F-1-6**: A circular component, possibly a pulley or fan, that fits onto the shaft of F-1-3.
- F-1-7**: A larger circular component, likely a fan or impeller, that fits onto the shaft of F-1-6.
- F-1-8**: A screw used to secure F-1-7 to F-1-6.
- F-1-9**: A screw used to secure F-1-2 to the main unit F-1-1.
- F-1-10**: A small pin or spacer located between F-1-9 and F-1-11.
- F-1-11**: A small pin or spacer located between F-1-10 and F-1-12.
- F-1-12**: A small screw used to secure F-1-11 to the main unit F-1-1.

The diagram shows the assembly sequence: F-1-6 and F-1-7 are assembled together, then F-1-3 is attached to F-1-6. This sub-assembly is then mounted onto F-1-2 using F-1-4 and F-1-5. Finally, F-1-2 is secured to the main unit F-1-1 using F-1-9, F-1-10, F-1-11, and F-1-12.

Note

F

F-2

The diagram illustrates the assembly of the F-2 component. The main assembly is shown in a perspective view, with various parts labeled with codes and arrows indicating their assembly sequence. The components include:

- F-2-1: The main rectangular base plate.
- F-2-2: A pulley or wheel component.
- F-2-3: A small circular component, likely a bearing or bush.
- F-2-4: A long cylindrical component, possibly a shaft or pin.
- F-2-5: A small circular component, likely a bearing or bush.
- F-2-6: A small circular component, likely a bearing or bush.
- F-2-7: A small circular component, likely a bearing or bush.
- F-2-8: A small circular component, likely a bearing or bush.
- F-2-9: A small circular component, likely a bearing or bush.
- F-2-10: A small circular component, likely a bearing or bush.
- F-2-11: A small circular component, likely a bearing or bush.
- F-2-12: A small circular component, likely a bearing or bush.
- F-2-13: A long cylindrical component, possibly a shaft or pin.

The assembly sequence is indicated by the arrows and the labels. The main assembly is shown in a perspective view, with various parts labeled with codes and arrows indicating their assembly sequence. The components include:

- F-2-1: The main rectangular base plate.
- F-2-2: A pulley or wheel component.
- F-2-3: A small circular component, likely a bearing or bush.
- F-2-4: A long cylindrical component, possibly a shaft or pin.
- F-2-5: A small circular component, likely a bearing or bush.
- F-2-6: A small circular component, likely a bearing or bush.
- F-2-7: A small circular component, likely a bearing or bush.
- F-2-8: A small circular component, likely a bearing or bush.
- F-2-9: A small circular component, likely a bearing or bush.
- F-2-10: A small circular component, likely a bearing or bush.
- F-2-11: A small circular component, likely a bearing or bush.
- F-2-12: A small circular component, likely a bearing or bush.
- F-2-13: A long cylindrical component, possibly a shaft or pin.

Note



F-3

The diagram illustrates the assembly of the F-3 component. The main assembly sequence is as follows:

- Component **F-3-1** (Base Plate) is the foundation.
- Component **F-3-3** (Mounting Bracket) is attached to **F-3-1** using screw **F-3-8**.
- Component **F-3-4** (Support Rail) is attached to **F-3-3** using screw **F-3-7**.
- Component **F-3-5** (Cover Plate) is attached to **F-3-3** using screw **F-3-9**.
- Component **F-3-6** (Grille) is attached to **F-3-5** using screw **F-3-10**.
- Component **F-3-2** (Main Housing) is the final outer component that encloses the internal parts.

Additional components shown include **F-3-8** (Screw) and **F-3-11** (Screw).

Note

F

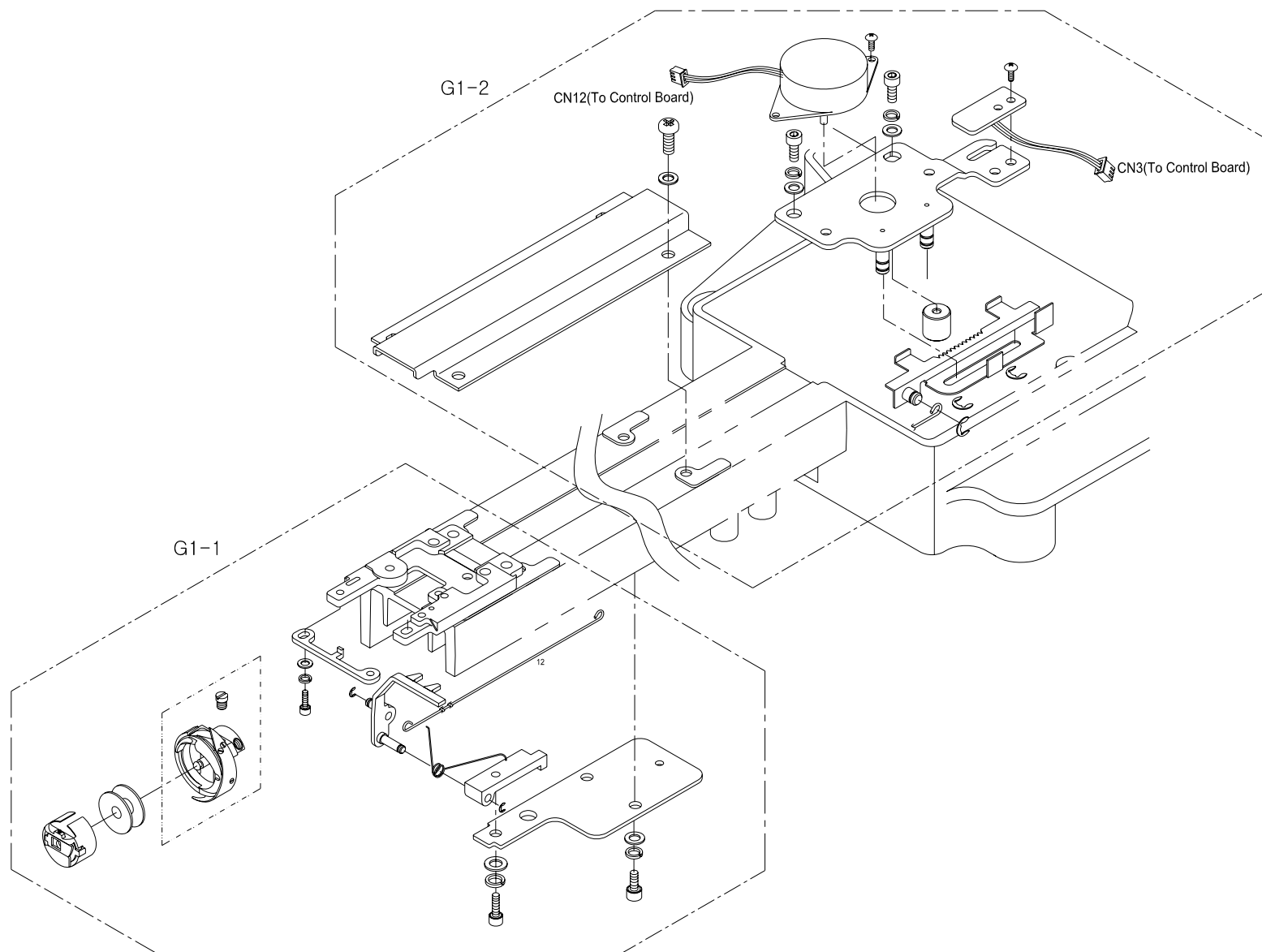
F-4

This diagram illustrates the assembly of the F-4 front panel. It shows the main panel (F-4-1) being attached to a base (F-4-7) using screws (F-4-15). The panel features a large rectangular cutout. A separate component, F-4-14, is shown below the main panel. The diagram also shows the installation of various internal components and fasteners, including F-4-2, F-4-3, F-4-4, F-4-8, F-4-9, F-4-10, F-4-11, F-4-12, F-4-13, and F-4-6.

Note



Setting 1



This exploded view diagram illustrates the assembly of the G1-1 unit. The components are labeled as follows:

- G1-1-1**: A small cylindrical component.
- G1-1-2**: A circular component with a central hub.
- G1-1-3**: A circular component with a central hub.
- G1-1-4**: A bracket component.
- G1-1-5**: A screw.
- G1-1-6**: A washer.
- G1-1-7**: A bracket component.
- G1-1-8**: A pin or clip.
- G1-1-9**: A long rod or pin.
- G1-1-10**: A pin or clip.
- G1-1-11**: A bracket component.
- G1-1-12**: A screw.
- G1-1-13**: A washer.
- G1-1-14**: A bracket component.
- G1-1-15**: A washer.
- G1-1-16**: A washer.
- G1-1-17**: A screw.

The diagram shows the assembly sequence, with components being added to the main structure. Dashed lines indicate the assembly path and the final assembled state.

[illegible]

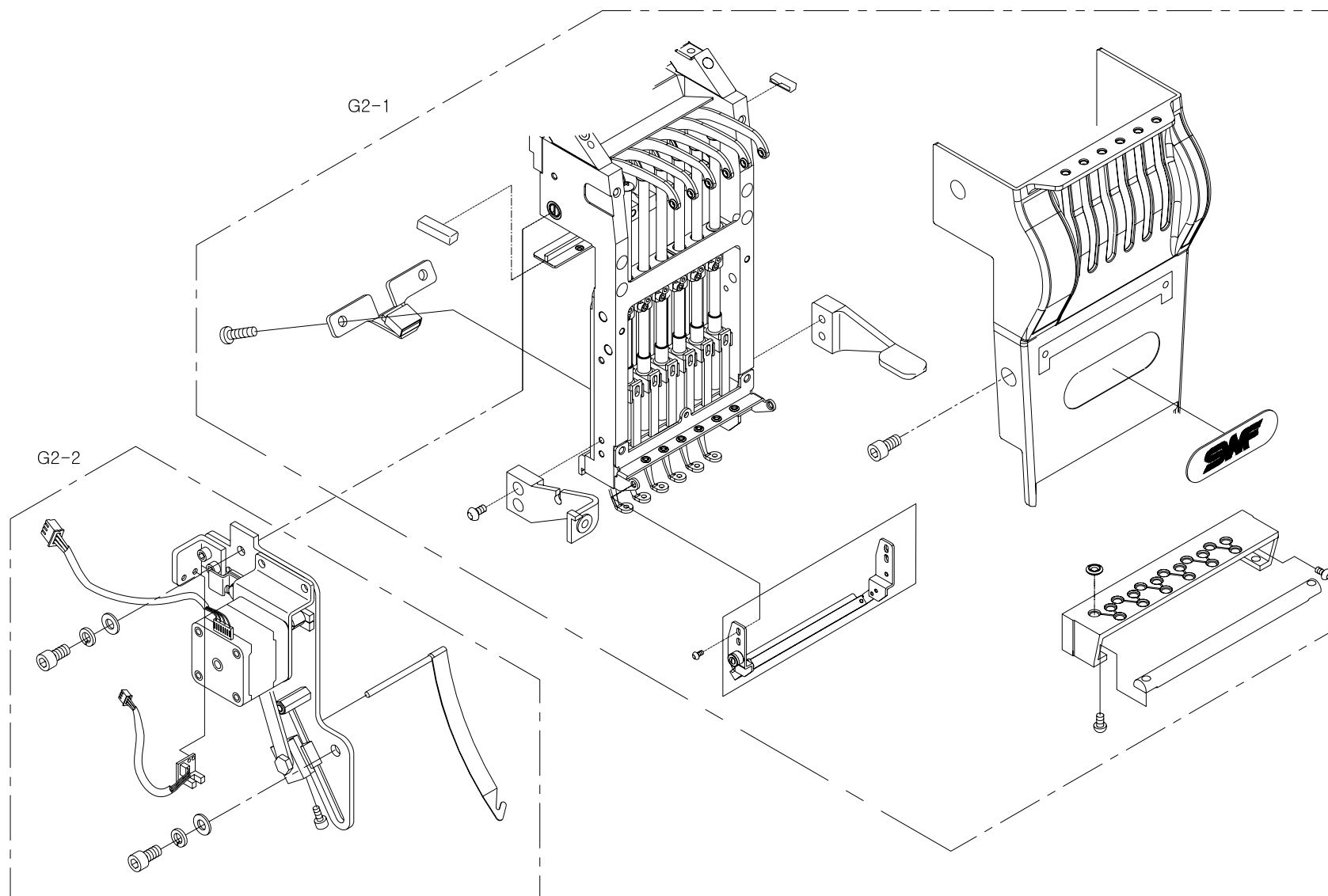
Exploded view diagram of the G1-2-1 assembly, showing various components and their assembly sequence. The diagram includes labels for parts G1-2-1 through G1-2-14, and connectors CN12 and CN3. Dashed lines indicate the assembly path and alignment of the components.

Labels and components shown:

- G1-2-3
- CN12(To Control Board)
- G1-2-2
- G1-2-4
- G1-2-5
- G1-2-6
- G1-2-13
- G1-2-12
- CN3(To Control Board)
- G1-2-1
- G1-2-7
- G1-2-14
- G1-2-6
- G1-2-11
- G1-2-8
- G1-2-9
- G1-2-10

[illegible]

Setting 2



G2-1

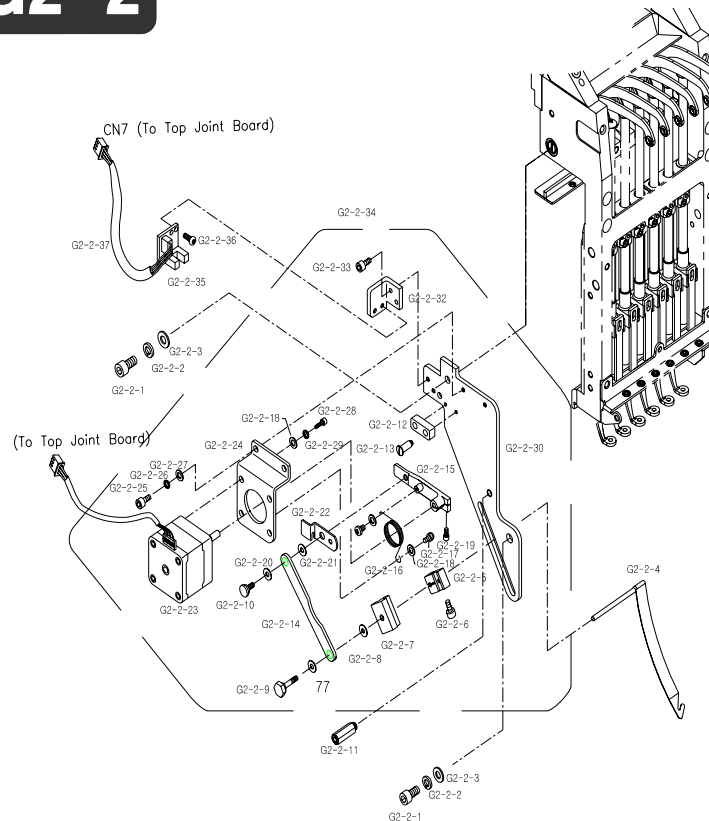
This diagram illustrates the exploded view of the G2-1 machine assembly. The main components are shown in their relative positions, with dashed lines indicating the assembly path. The parts are labeled as follows:

- G2-1-1: Main body of the machine.
- G2-1-2: Bolt for the main body.
- G2-1-3: Bolt for the main body.
- G2-1-4: Bolt for the main body.
- G2-1-5: Bolt for the main body.
- G2-1-6: Bolt for the main body.
- G2-1-7: Bolt for the main body.
- G2-1-8: Bolt for the main body.
- G2-1-9: Bolt for the main body.
- G2-1-10: Bolt for the main body.
- G2-1-11: Bolt for the main body.
- G2-1-12: Bolt for the main body.
- G2-1-13: Bolt for the main body.
- G2-1-14: Bolt for the main body.
- G2-1-15: Bolt for the main body.
- G2-1-16: Bolt for the main body.
- G2-1-17: Bolt for the main body.
- G2-1-18: Bolt for the main body.
- G2-1-19: Bolt for the main body.
- G2-1-20: Bolt for the main body.
- G2-1-21: Bolt for the main body.
- G2-1-22: Bolt for the main body.
- G2-1-23: Bolt for the main body.
- G2-1-24: Bolt for the main body.

Note

G2

G2-2



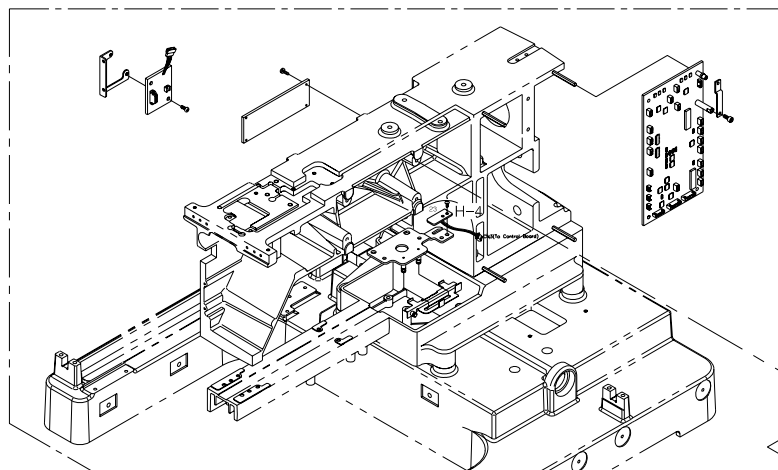
Note

Ref.No	Part No.	Part Name	Applied Period	Interchangeability	Hardware	Q'ty	Remark
G2-2-1	08076SC-7113	HEX. SOCKET BOLT (M5*L12)			O	2	
G2-2-2	18048SW-3115	SPRING WASHER (5@)			O	2	
G2-2-3	18049SW-3111	WASHER (@5)			O	2	
G2-2-4	09005PR-CT01	Upper Thread Catcher				1	
G2-2-5	09006AD-T121	Positioning Collar Bracket				1	
G2-2-6	09007SC-7113	HEX. SOCKET BOLT (M3*L12)			O	1	
G2-2-7	09008PM-T121	Positioning Collar				1	
G2-2-8	09009PR-T121	Positioning Collar Washer				1	
G2-2-9	09010CW-T121	Stud Screw				1	
G2-2-10	09013CW-T121	Driving Link Stud Screw				1	
G2-2-11	SC-000243-00	Wiper Cover Stud Bolt				2	
G2-2-12	09021RB-A001	Cushion Stopper				1	
G2-2-13	09033CW-CT01	STOPER SCREW				2	
G2-2-14	GP-006007-00	DRIVING LINK				1	
G2-2-15	08500700C000	Motor Shaft Connecting Lever				1	
G2-2-16	08500400C000	Upper Thread Return Spring				1	
G2-2-17	06010SC-8118	Plus Screw (M3*L4)			O	2	
G2-2-18	06011SW-2111	Washer (@3)			O	6	
G2-2-19	02015SC-7113	HEX.SOCKET BOLT(M4*L10)			O	1	
G2-2-20	08500600C000	Wiper Driving Link Washer				1	
G2-2-21	08500600C000	Wiper Driving Link Washer				2	
G2-2-22	08500800C000	Wiper Return Sensor Plate				1	
G2-2-23	08500200C000	Upper Thread Catcher Motor				1	
G2-2-24	08500300C000	Upper Thread Hook Motor Base				1	
G2-2-25	02023SC-7113	Hex.Socket Bolt (M4*L8)			O	2	
G2-2-26	18014SW-3115	Spring Washer (@4-No2)			O	2	
G2-2-27	18015SW-3111	Washer (4@)			O	2	
G2-2-28	22006SC-7113	HEX. SOCKET BOLT (M3*L8)			O	4	
G2-2-29	11019SW-9115	Spring Washer (3@)			O	4	
G2-2-30	08500110C000	Upper Thread Hook Base				1	
G2-2-31	08501000C000	WIPER RETURN SENSOR BRAKET				1	
G2-2-32	07035SC-7113	BRACKET SCREW (M3*L6)			O	2	
G2-2-33	08500010C000	Upper Thread Catcher Set				1	
G2-2-34	09017EL-T121	Wiper Sensor Board				1	
G2-2-35	08006SC-8118	Plus Screw (M3*L5)			O	2	
G2-2-36	DUAL-ONE-20	WIPER RETURN SENSOR Connector				1	

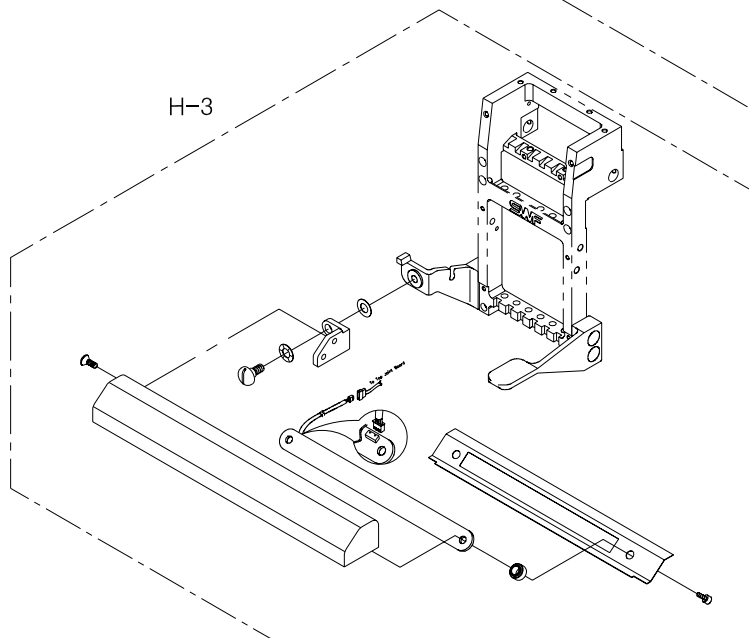
G2

Operation Unit & Main Controller

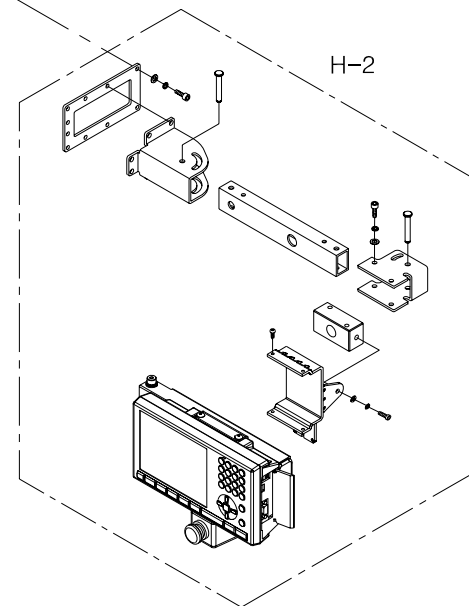
H-1



H-3



H-2



H-1

The diagram illustrates the assembly of the H-1 unit. The main assembly is shown in a perspective view, with various components labeled with callouts:

- H-1-1**: The main base unit, shown in a perspective view at the bottom.
- H-1-2**: A rectangular panel with multiple circular openings, shown in a perspective view at the top right.
- H-1-3**: A small rectangular component, shown in a perspective view at the top right.
- H-1-4**: A small rectangular component, shown in a perspective view at the top right.
- H-1-5**: A small rectangular component, shown in a perspective view at the top right.
- H-1-6**: A small rectangular component, shown in a perspective view at the top right.
- H-1-7**: A small rectangular component, shown in a perspective view at the top right.
- H-1-8**: A small rectangular component, shown in a perspective view at the top right.

The diagram also includes a detailed view of the internal components of the H-1-1 unit, showing a fan, various electronic components, and a power switch.

Note



This exploded view diagram illustrates the assembly of the H-2-1 unit. The main frame (H-2-1) is shown at the top, with various components being attached to its underside. The components and their assembly points are as follows:

- H-2-8**: A rectangular plate with four mounting holes, shown being aligned with the main frame.
- H-2-6**: A curved bracket with a central hole, shown being aligned with the main frame.
- H-2-7**: A long, thin rectangular plate with multiple mounting holes, shown being aligned with the main frame.
- H-2-5**: A rectangular plate with two mounting holes, shown being aligned with the main frame.
- H-2-13, H-2-14, H-2-15**: Three small rectangular plates, shown being aligned with the main frame.
- H-2-4**: A small rectangular plate with two mounting holes, shown being aligned with the main frame.
- H-2-3**: A small rectangular plate with two mounting holes, shown being aligned with the main frame.
- H-2-9**: A small rectangular plate with two mounting holes, shown being aligned with the main frame.
- H-2-2**: A small rectangular plate with two mounting holes, shown being aligned with the main frame.
- H-2-12, H-2-11, H-2-10**: Three small rectangular plates, shown being aligned with the main frame.

[illegible]

Note

[illegible]

[illegible]

H-5-2 H-5-3 H-5-4

H-5-1

H-5-7

H-5-5

H-5-6 H-5-5

Note



Thread Tension Unit

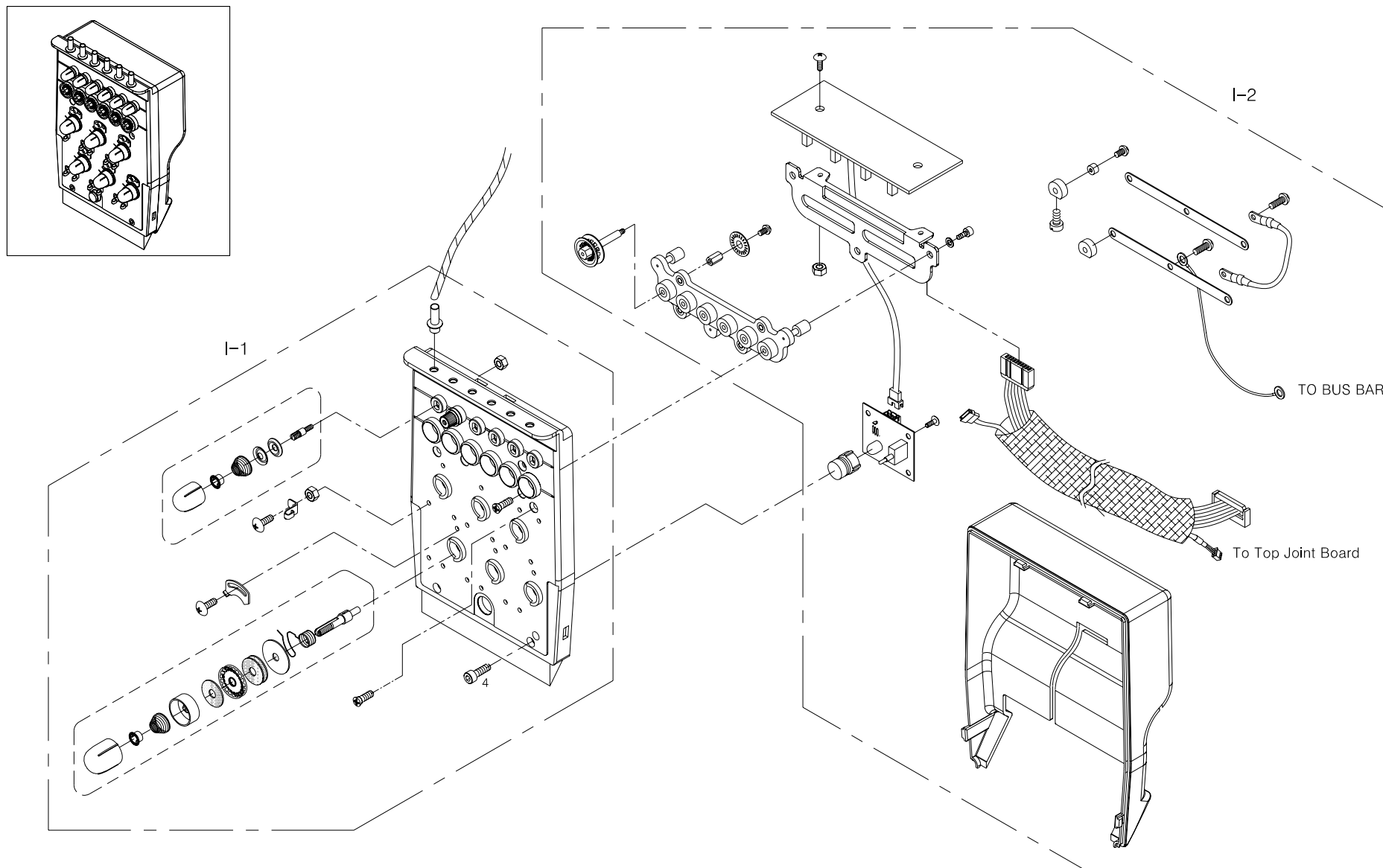
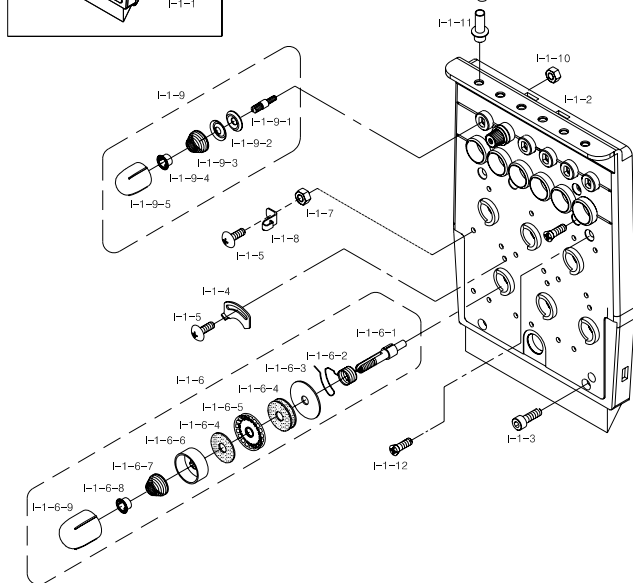


Diagram of a 12-position terminal block with 12 screw terminals and 12 pins.

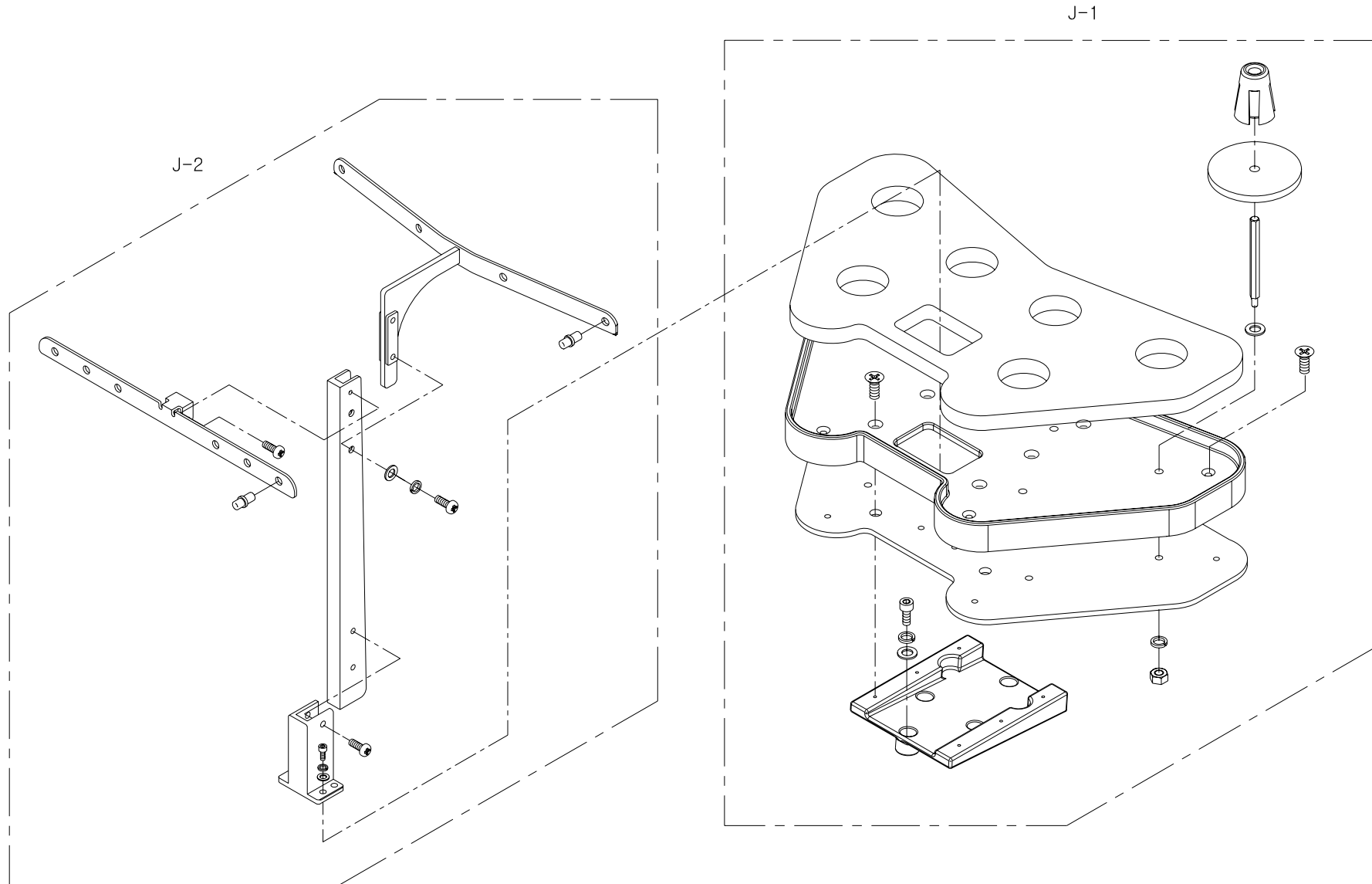


Note

[illegible]



Spool



J-1

This exploded view diagram illustrates the assembly of the J-1 component. The main parts are labeled as follows:

- J-1-1**: The central rectangular base plate with rounded corners and multiple mounting holes.
- J-1-2**: A large, irregularly shaped top plate with several circular cutouts.
- J-1-3**: A smaller rectangular plate positioned below the main base.
- J-1-4**: Screws used to secure the top plate (J-1-2) to the main base (J-1-1).
- J-1-5**: A small rectangular component with a T-shaped slot, located at the bottom left.
- J-1-6, J-1-7, J-1-8**: A vertical assembly of a screw, a spacer, and a washer, shown being inserted into the T-slot of J-1-5.
- J-1-9**: A conical cap or plug.
- J-1-10**: A circular disc.
- J-1-11**: A long vertical pin or rod.
- J-1-12**: A small circular washer or spacer.
- J-1-13, J-1-14**: A vertical assembly of a washer and a nut, shown being inserted into the base plate (J-1-1).

Note



J-2

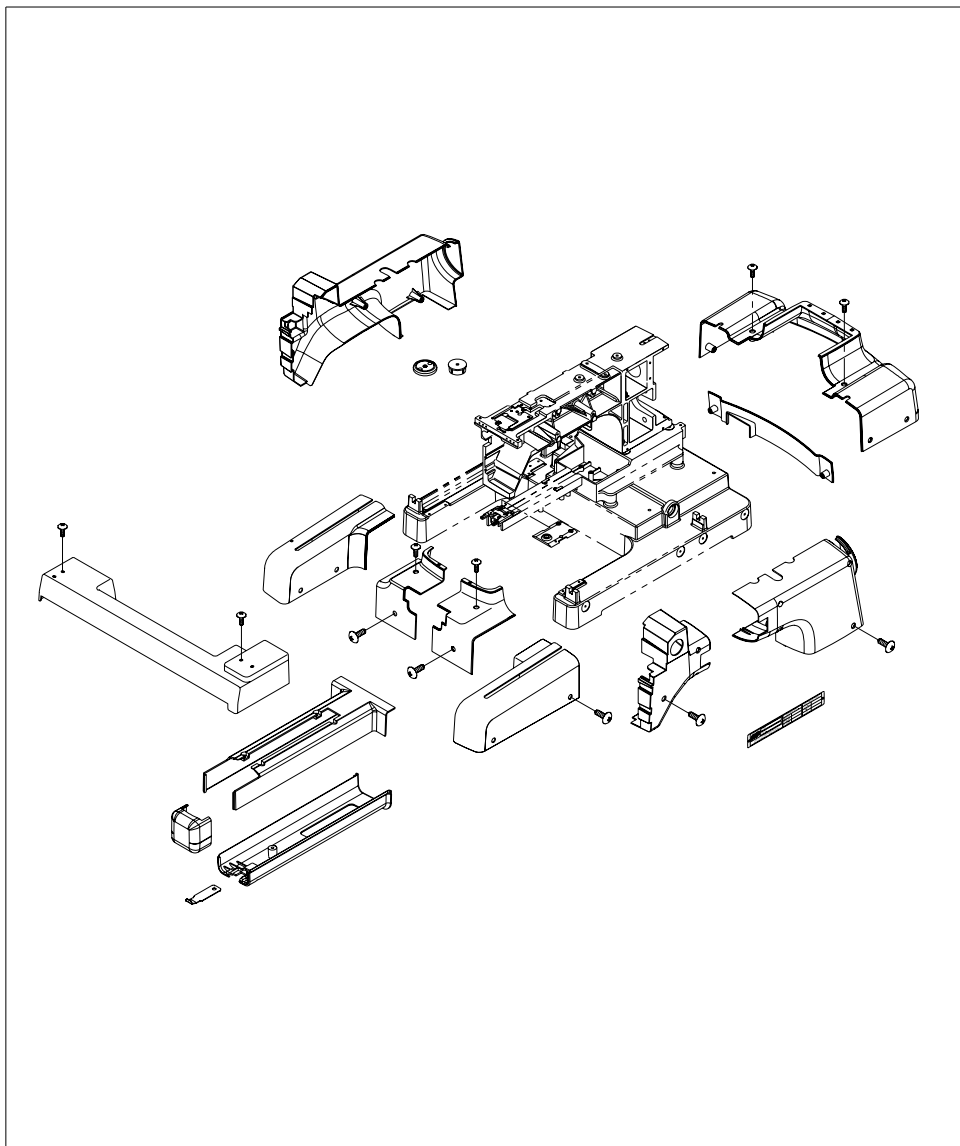
The diagram illustrates the assembly of the J-2 component, showing the following parts and their assembly sequence:

- J-2-1**: A long horizontal metal bar with four mounting holes.
- J-2-2**: A curved metal bracket with two mounting holes.
- J-2-3**: A small metal pin or bolt used to secure the bracket to the bar.
- J-2-4**: A vertical metal bar with two mounting holes.
- J-2-5**: A small metal pin or bolt used to secure the vertical bar to the horizontal bar.
- J-2-6**: A small metal pin or bolt used to secure the vertical bar to the horizontal bar.
- J-2-7**: A small metal pin or bolt used to secure the vertical bar to the horizontal bar.
- J-2-8**: A small metal pin or bolt used to secure the vertical bar to the horizontal bar.
- J-2-9**: A small metal pin or bolt used to secure the vertical bar to the horizontal bar.
- J-2-10**: A small metal pin or bolt used to secure the vertical bar to the horizontal bar.
- J-2-11**: A small metal pin or bolt used to secure the vertical bar to the horizontal bar.
- J-2-12**: A small metal pin or bolt used to secure the vertical bar to the horizontal bar.

Note



Accessories Mechanism



This exploded view diagram illustrates the assembly of a mechanical device, likely a pump or engine component. The parts are labeled as follows:

- k-1-10**: A curved, cast metal part at the top left.
- k-1-17**: A small circular washer or spacer.
- k-1-18**: A small circular washer or spacer.
- k-1-19**: Multiple instances of a long, L-shaped bracket with mounting holes.
- k-1-1**: A curved metal part with a central pin.
- k-1-6**: A curved metal part with a central pin.
- k-1-2**: A curved metal part with a central pin.
- k-1-13**: A long, L-shaped bracket with mounting holes.
- k-1-4**: A small metal part with a central pin.
- k-1-16**: A central metal assembly with various mounting points.
- k-1-5**: A small metal part with a central pin.
- k-1-12**: A curved metal part with a central pin.
- k-1-3**: A curved metal part with a central pin.
- k-1-11**: A small metal part with a central pin.
- k-1-7**: A long, L-shaped bracket with mounting holes.
- k-1-8**: A long, L-shaped bracket with mounting holes.
- k-1-9**: A small metal part with a central pin.
- k-1-14**: A small metal part with a central pin.
- k-1-15**: A long, thin metal strip.

Note



K-2

The diagram illustrates the assembly of the K-2 device, with components numbered 1 through 18. The components are as follows:

- k-2-1: Two long screws.
- k-2-2: Two shorter screws.
- k-2-3: Two thin vertical rods.
- k-2-4: A circular disc.
- k-2-5: A small rectangular component with a circular feature.
- k-2-6: A small cylindrical pin.
- k-2-7: A small L-shaped bracket.
- k-2-8: A small L-shaped bracket.
- k-2-9: A small L-shaped bracket.
- k-2-10: A small circular disc.
- k-2-11: Two rectangular plates with circular holes.
- k-2-12: A large, bulbous container with a narrow neck.
- k-2-13: A large rectangular box.
- k-2-14: A small L-shaped bracket.
- k-2-15: A small L-shaped bracket.
- k-2-16: A long, thin rod.
- k-2-17: A small screw.
- k-2-18: A small screw.
- k-2-19: A small screw.
- k-2-20: A small screw.
- k-2-21: A small screw.

Note



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GP-026769-00	Upper Shaft Timing Pulley	17	A-7-4-1
GP-026778-00	Hand Pulley For Upper Shaft	17	A-7-4-2
GP-026779-00	Cover for Hand Pulley	17	A-7-4-3
GP-026924-00	Oil Storing Box	15	A-5-3
GP-026925-00	Oil Storing Felt	15	A-5-4
GP-029521-00	Tubular Frame Rail Plate	44	G2-1-22
GP-031038-00	Needle Plate	59	K-1-16
GP-031038-01	Needle Plate	59	K-1-16

[illegible][illegible][illegible]