

AIM

ASSEMBLY AND INSTRUCTION MANUAL K008-5, U10-5

Auxiliary circuit 2-way kit

Kubota

(Original)

KIT OVERVIEW

Kit name	Machine type	Kit number
Auxiliary circuit 2-way kit	K008-5	W921549200
Auxiliary circuit 2-way kit	U10-5	W922549202

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GENERAL INFORMATION

Safety information

General safety instructions

This assembly and operator's manual supplements the operator's manual for the basic machine as it refers specifically to the attached accessory equipment and contains important assembly, operating and maintenance information.

■ NOTE

The assembly and operators manual must be stored within reach of the basic machine and must be replaced promptly in the event of loss.

Before installing the accessory equipment, all instructions in the assembly and operator's manual must be read and understood.

- Before using the accessory equipment, the operator must have read and understood the sections on safety and operation.

In the event that any of the following instructions and procedures are unclear, work with the attached accessory equipment must be discontinued and a **KUBOTA** service partner consulted.

■ NOTE

Please also observe the safety precautions as given in the operators manual for the basic machine.

Safety warning symbols are used throughout the assembly and operator's manual and on machine stickers to warn of potential risks of injury.

It is important that these safety instructions are read and followed before working on or with the construction machine. The following is an explanation of the symbols used in the assembly and operators manual, and their meanings.



DANGER

- A non-compliance of this safety instruction will lead to severe or fatal injuries.



WARNING

- A non-compliance of this safety instruction can lead to severe or fatal injuries.



CAUTION

- A non-compliance of this safety instruction can lead to injuries.

■ IMPORTANT

- A non-compliance of this safety instruction can lead to damages or breakdown of the equipments.

■ NOTE

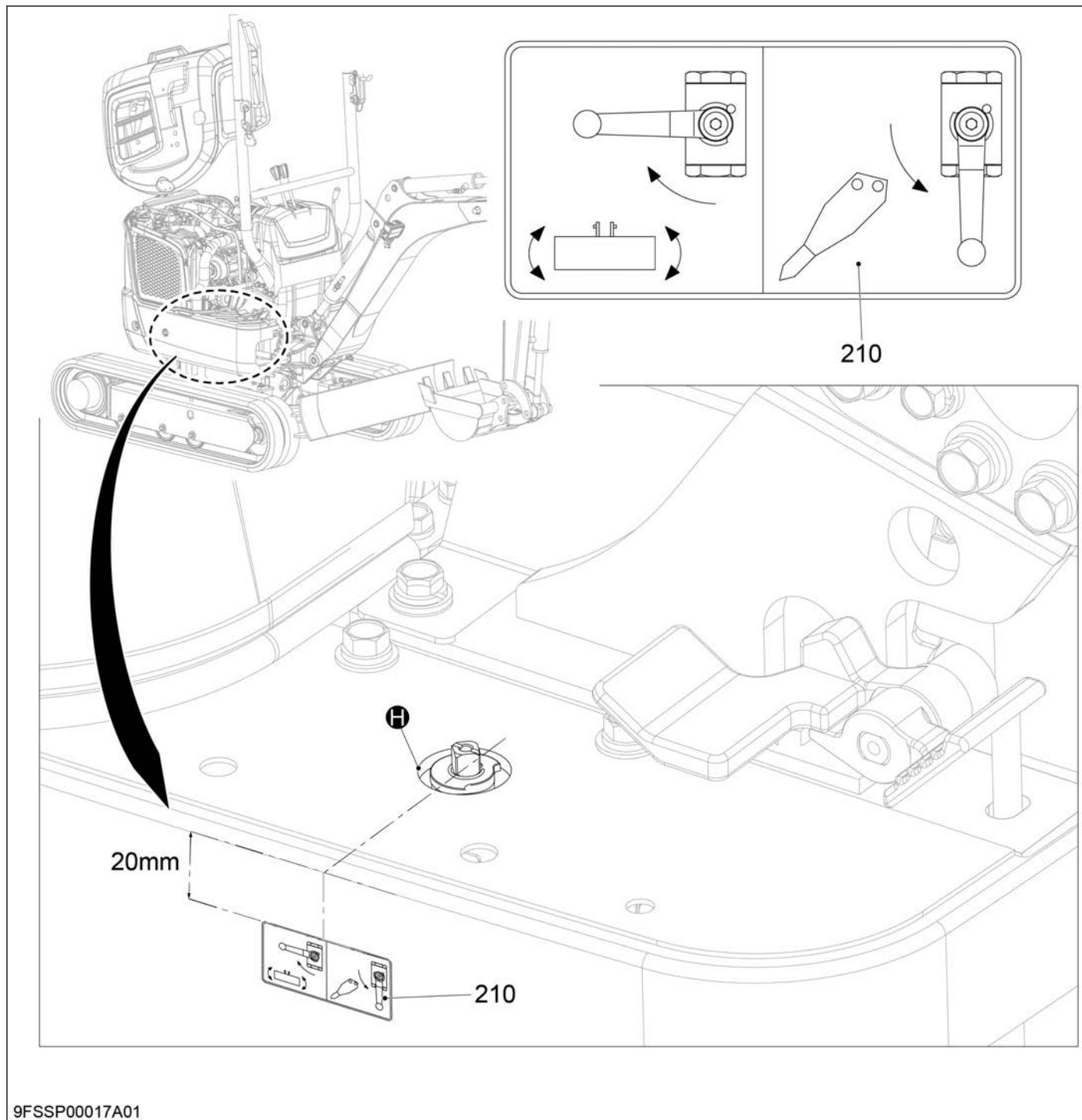
- Refer to the additional explanations which are useful for the operation of the equipments.

Description of the safety sticker

■ NOTE

- All of the safety stickers affixed to the machine must be maintained so they are legible at all times; replace if not.

- The locations for affixing the safety warnings are indicated in the following figures.
- Part no.: W921293560



Occupational safety

Fitting the accessory equipment

The accessory equipment may be assembled only by an expert as determined by the operating company

WARNING

Before all assembly, maintenance and servicing work, the machine must be switched off and properly secured against the following:

- Unauthorised and unintentional switch-on.
- Unintentional movement.

CAUTION

Machines with overload warning device:

Observe the following when using accessory equipment with the lifting hook:

- If the overload warning system is switched off, excessive loads will not be identified. This can result in personal injury or damage to property.

CAUTION

To prevent personal injury and damage to the machine, please observe the following:

- When pivoting and retracting the boom with accessory equipment attached, ensure that there is no collision with the machine or the operator workstation.
- A visual and functional check of the attached accessory equipment must be carried out before work commences.

Please also pay attention to the chapter Maintenance and De-commissioning in the instruction manual of the basic machine for this purpose.

Qualification of the operating staff

Only the following persons may work independently with the accessory equipment and generally with the earth-moving machinery:

- have completed 18 years of age,
- are physically and mentally able for it,
- have been instructed about general health and safety at work regulations (in Germany, this means in particular the DGUV 100-500 regulations **on earthmoving machinery**);

NOTE

- The respective provision for prevention of accidents and safety regulations of the country apply outside the Federal Republic of Germany.

- are trained in the assembly, driving and servicing of the earth-moving machinery and handling of the accessory equipment,
- have read and understood this instruction manual in full, and particularly the sections on safety, and have provided the company with proof of their operator competence.

It should be ensured,

- that only authorised personnel work with the accessory equipment.
- that trainings are arranged for expert persons capable for this only.

The following should be observed for the safe operation of accessory equipment:

- Use the accessory equipment only if it is safe and fully functional.
- The accessory equipment may only be fitted to the special installation sites provided on the basic machine!
- Inspect the accessory equipment for visible external damage or defects every day. In the event of damage or any change affecting safety, stop machine operation immediately and report to your site safety officer or supervisor.
- Immediately repair the defects which are found out.
- Refrain from an improper and unsafe use.
- The contact surface for the accessory equipment must not be painted.
- Personnel must keep away from the danger zones of agricultural systems and earth-moving machinery. Exceptions are possible if unavoidable for operational reasons and the company has specified appropriate safety precautions (operators manual) based on a risk assessment made specifically for the work in question.
- The machine driver must give recognisable warning signs in case of danger for persons.

When fitting or disassembling hydraulic accessories such as hoses, cylinders, and valves, the hydraulic system must be depressurised and the depressurised state checked with suitable testing equipment.

**WARNING**

- Hydraulic hoses can be under high pressure.
- Danger due to gushing hydraulic oil or bursting hydraulic hoses.
- Faulty components must be replaced by a trained specialist.

NOTE

- Use of a vacuum pump is recommended when working on the hydraulic system.
- When changing accessory equipment, any existing hydraulic lines between the accessory equipment and basic machine must be properly disconnected.
- Please also pay attention to the chapter Maintenance and De-commissioning in the instruction manual of the basic machine.

The following points must be complied with while working on electrical systems:

- Constantly use safety goggles and hand gloves while handling the battery.
- The gas produced by the battery is flammable. Do not perform any welding or use any sparking tools (grinding machine) near the battery. Smoking near the battery is prohibited.
- When disconnecting the battery, always disconnect the negative cable first. When connecting the battery, always connect the positive cable first.

**WARNING**

- Always disconnect the negative terminal from the battery before starting work on the electrical subsystem.

Environment protection

Prevent oils, greases and other chemical substances from reaching into the soil or waters.
Observe the relevant applicable safety regulations.

Ordering of spare parts

We recommend the use of original spare parts over the entire service life of your accessory equipment as well as after the expiry of the warranty period in order to ensure constant performance and a long service life. Only original parts approved by us are standardised by us and suitable. Warranty claims can be raised only on original spare parts (**KUBOTA**).

NOTE

Please remember to give the following information at the time of ordering the spare parts:

- Name/ type of the spare part
- Product identification number and year of construction of machine
- Part number of the spare part
- number of pieces required
- Customer number

Provide exact information for the written order or keep the data ready before ordering via telephone. You can thus ease our and your own work and avoid errors and incorrect orders or delivery.

NOTE

Please send your order to your KUBOTA dealer.

Warranty/guarantee

Warranty

The warranty complies with our General Terms of Sale And Delivery. The warranty in any case assumes proper conditions and appropriate use and expires, if the chance of rectification is not granted to us.

Please pay attention to the chapter Warranty and Liability of the instruction manual of the basic machine for this purpose.

Guarantee

Scope, period and form of the guarantee are fixed in the general terms of guarantee of the manufacturer.

INSTRUCTION MANUAL

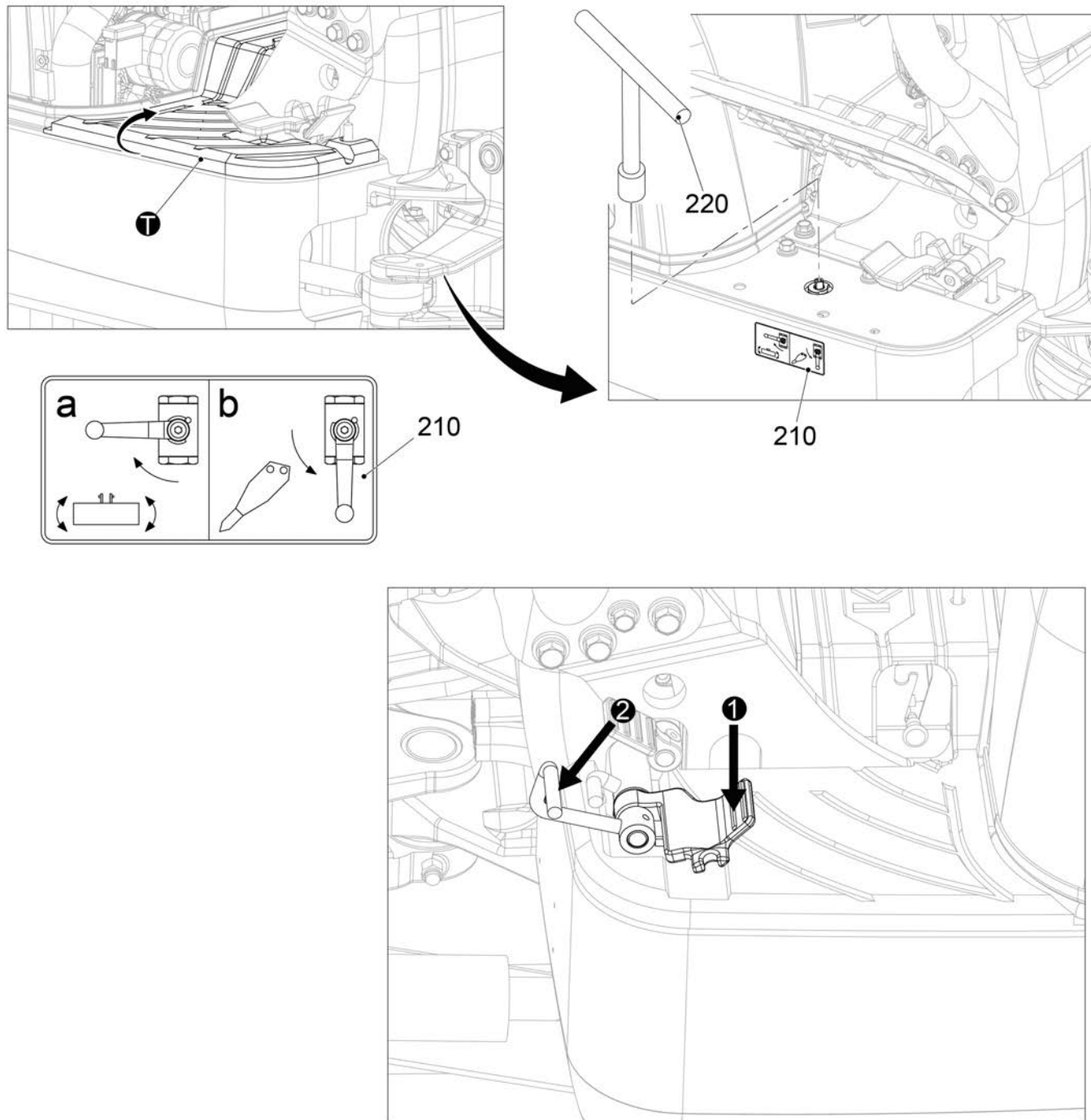
Operating the auxiliary circuit

The auxiliary circuit kit enables indirect return, via a ball valve, to the auxiliary circuit that is fitted to the boom.

Direct return ball valve

The ball valve is adjusted with a socket spanner (220) on the right-hand side under the foot mat.

The ball valve has two positions.



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- **Indirect return position (a)**

The return is from the attachment to the hydraulic oil tank via the control block. In this case, the return can be via the left or right connection (according to the position of the auxiliary circuit pedal 1 or 2) of the arm.

■ **NOTE**

The “indirect return” position is used for normal excavator work and for rotating accessory equipment (such as rotary grippers, augers, etc.).

- Press the auxiliary circuit pedal part (1) for return on the right-hand side of the boom.
- Press the auxiliary circuit pedal part (2) for return on the left-hand side of the boom.

- **Direct return position (b)**

The return is from the attachment directly to the hydraulic oil tank. The return is via the right auxiliary circuit connection on the arm only.

■ **NOTE**

The “direct return” position is used for hammer equipment (e.g. hydraulic breakers)

.

■ **NOTE**

The machine’s direct return must be activated: if not, there is a danger of the machine overheating.

ASSEMBLY

General assembly information

- When assembling the hydraulic components, the following must also be taken into account:

■ NOTE

To simplify assembly of the components in the kit, any existing hydraulic connections will need to be removed. The following must be observed during reassembly:

- The seals on disassembled hydraulic components must be replaced.
- The disassembled parts must be free of dust and dirt before they are reassembled.
- The leak tightness of the assembled hydraulic components must be verified.
- Use the correct tightening torque. Missing tightening torque information can be found in the workshop manual.

■ NOTE

The hydraulic adapters and hydraulic hoses that are used in the kit or on the basic machine may have imperial, metric or mixed connection types. As such, a hydraulic hose may, for example, have an imperial thread on one end and a metric thread on the other. When assembling, it is important to ensure that only suitable threads are assembled, as otherwise there is a risk of component damage and leaks.

■ NOTE

If a hydraulic hose is fitted with both an angled and straight connection fitting, the angled fitting must always be assembled first.

■ NOTE

When fitting or removing hydraulic components, ensure that any escaping oil is collected immediately and disposed of properly.

■ NOTE

Check the hydraulic oil level and correct it, if necessary (see the operating instructions for the basic machine) after assembling the hydraulic components and before commissioning the machine.


- When fitting the electrical components, the following must be borne in mind:

■ NOTE

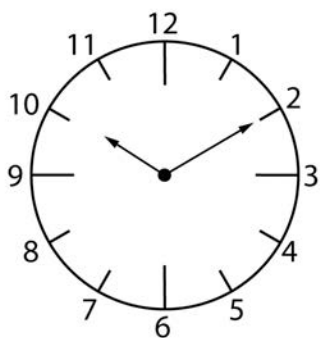
When routing the cable harnesses, it must be ensured that they are not routed over sharp edges or kinked.

- The following must be observed during all assembly work:

■ NOTE

- When carrying out the work, ensure that there is no damage to painted parts of the machine. In some manuals, these work steps are additionally marked with the following symbol: 
- If threaded holes are needed on the basic machine for the attachment of kits, they must firstly be cleaned (of paint and oil residue) and refinished, if necessary.

Assembly time

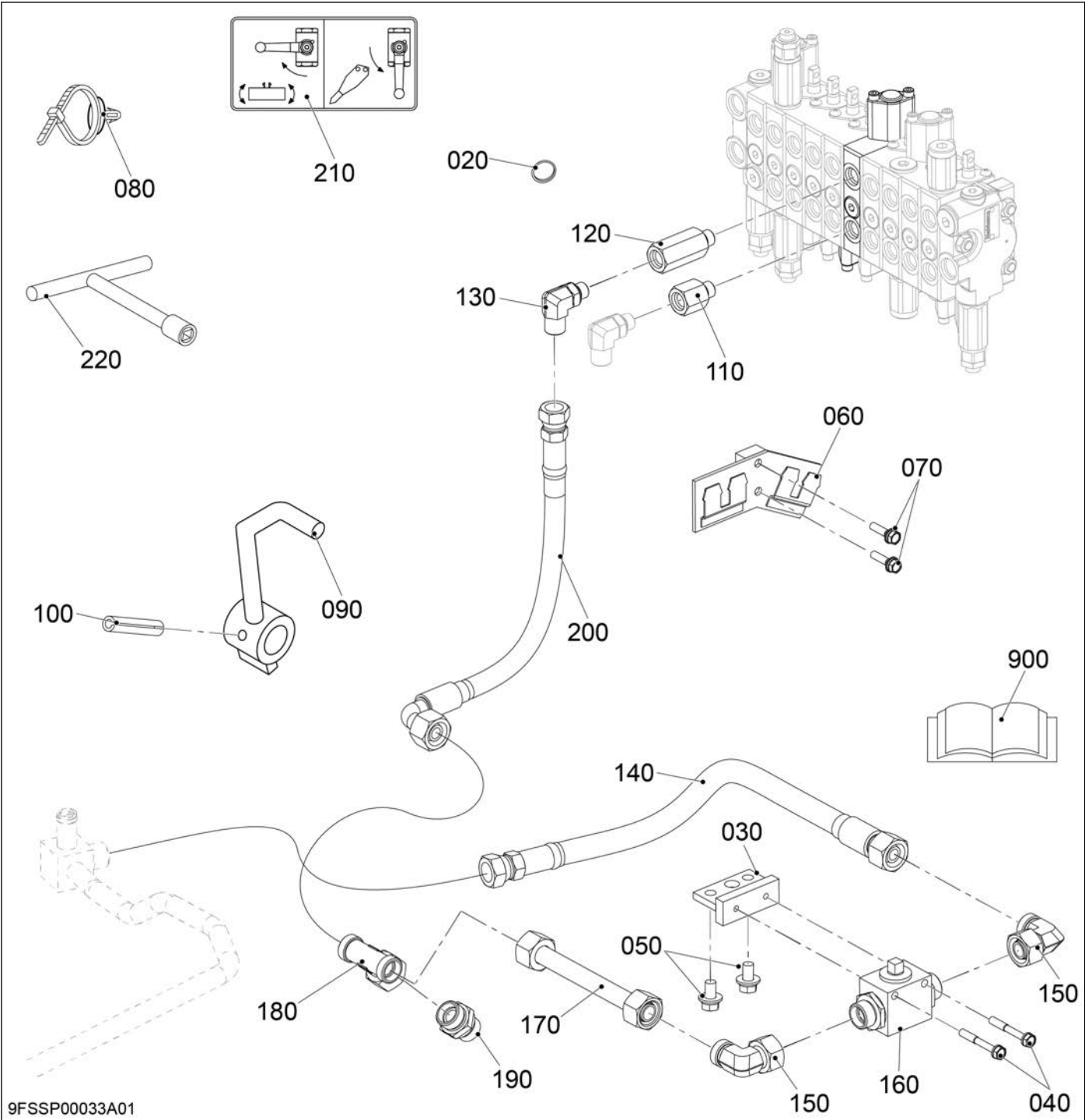


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- The assembly time for K008-5 is 100 minutes.
- The assembly time for U10-5 is 120 minutes.

Parts list

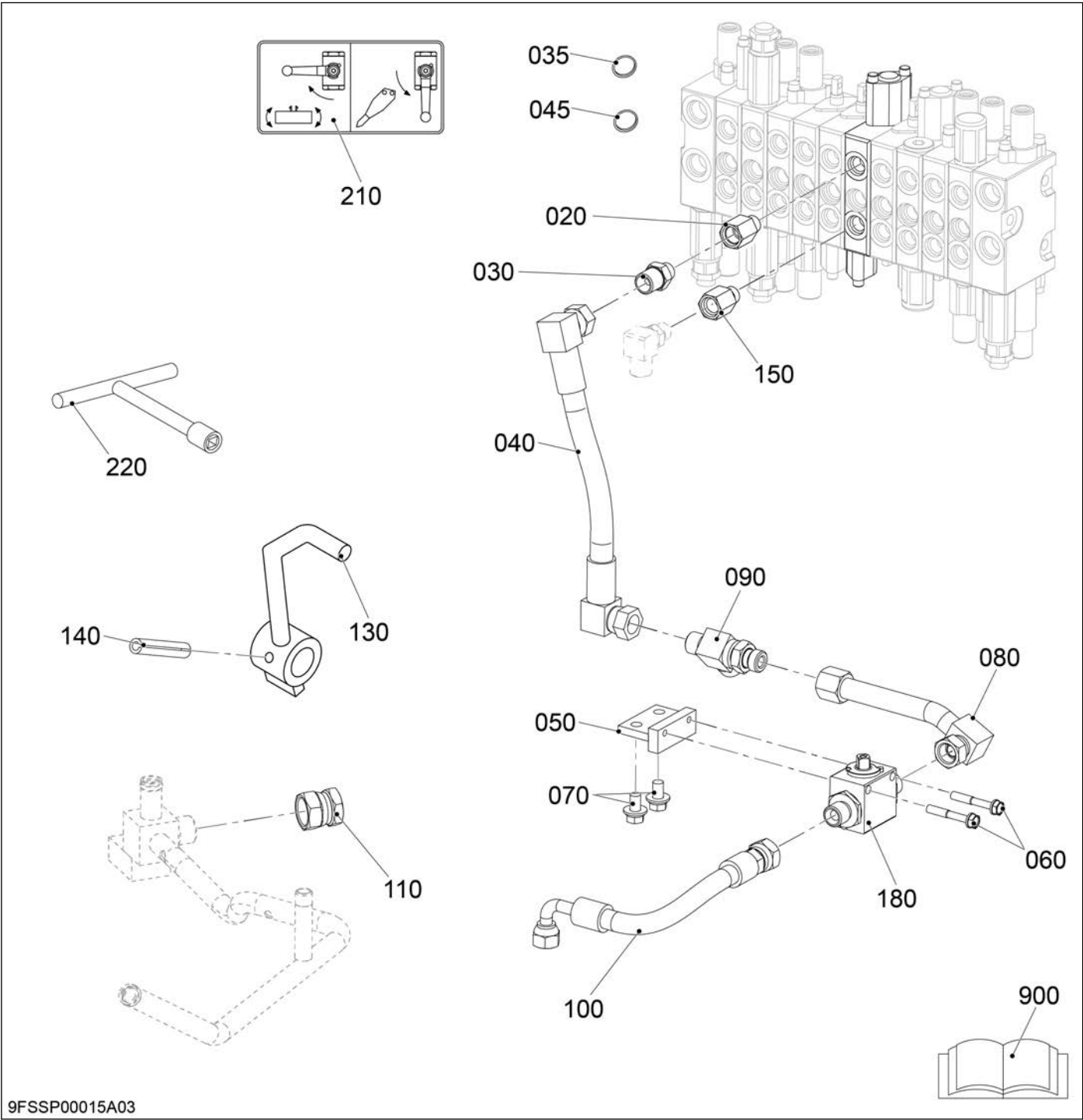
Parts list K008-5



ASSEMBLY

Item	Part no.	No. of units	Description	Remark
010	W921549200	1	Auxiliary circuit 2-way kit	Pos. 020 - 220
020	0481700110	1	Sealing ring	
030	RA05896760	1	Bracket	
040	0102350645	2	Hexagon head bolt	
050	0112550816	2	Hexagon head bolt	
060	RA05896880	1	Bracket	
070	0102550625	2	Hexagon head bolt	
080	RP42154110	1	Cable tie	
090	W921192440	1	Bracket	
100	W92SP05250	1	Clamping sleeve	
110	W921192550	1	Hydraulic adapter	
120	W921192560	1	Hydraulic adapter	
130	W921163360	1	Hydraulic adapter	
140	W921293510	1	Hydraulic hose	
150	RG20886172	2	Hydraulic adapter	
160	W921293522	1	Ball valve	
170	W921593440	1	Hydraulic pipe	
180	RG20886792	1	Hydraulic adapter	
190	RG90886012	1	Hydraulic adapter	
200	W921293550	1	Hydraulic hose	
210	W921293560	1	Sticker	
220	W921293370	1	Socket spanner	
900	---	1	Assembly and instruction manual	This manual

Parts list U10-5



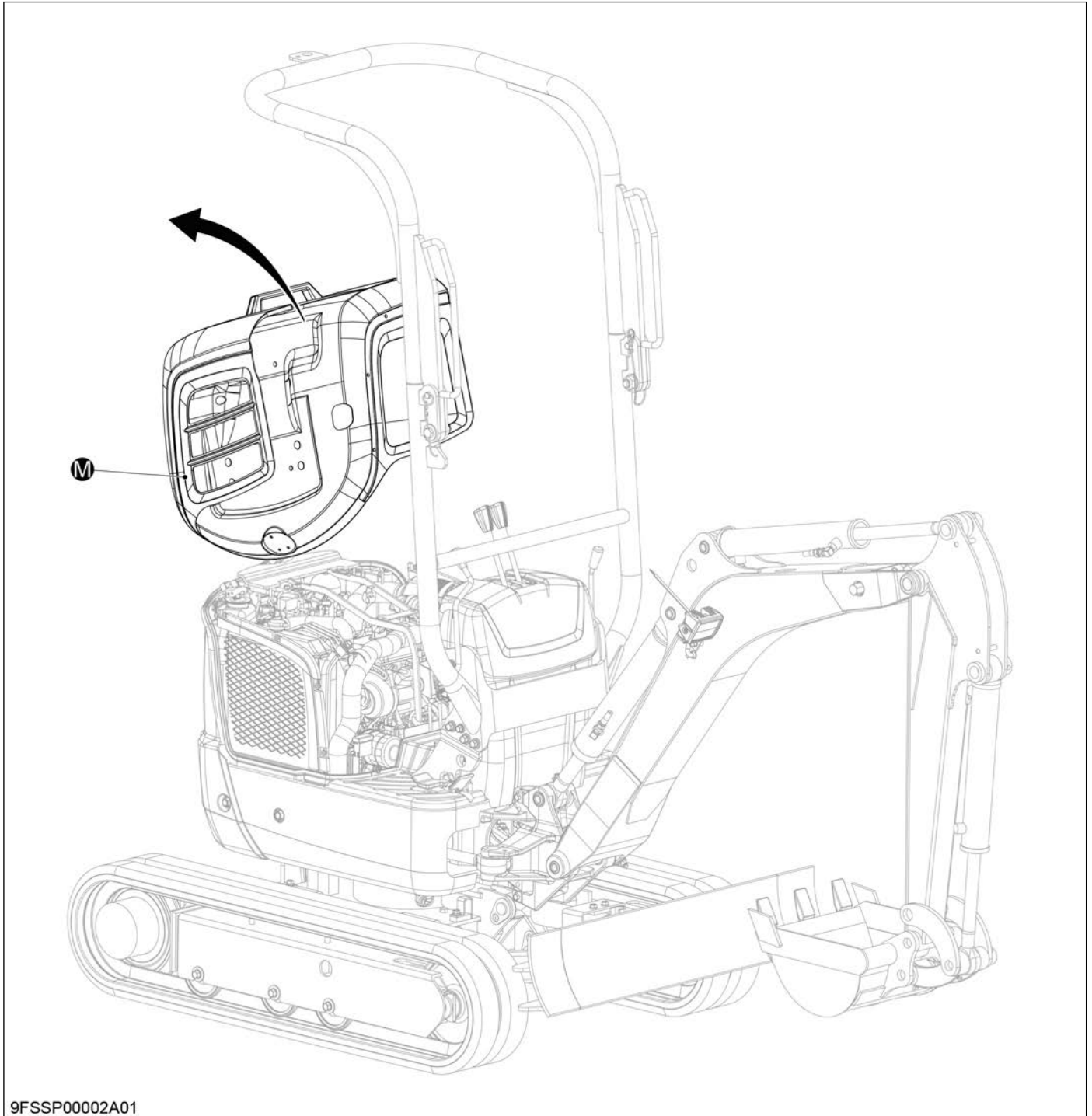
ASSEMBLY

Item	Part no.	No. of units	Description	Remark
010	W922549202	1	Auxiliary circuit 2-way kit	Pos. 020 - 220
020	RC44163250	1	Hydraulic adapter	
030	MR00230212	1	Hydraulic adapter	
035	0481700140	2	Sealing ring	
040	RA16896870	1	Hydraulic hose	
045	0481700110	1	Sealing ring	
050	RA16896760	1	Bracket	
060	0102350640	2	Hexagon head bolt	
070	0112550816	2	Hexagon head bolt	
080	RA16896840	1	Hydraulic pipe	
090	RA16896850	1	Hydraulic adapter	
100	RA16896730	1	Hydraulic hose	
110	RC46164550	1	Threaded plug	
130	W921192440	1	Bracket	
140	W92SP05250	1	Clamping sleeve	
150	W921192550	1	Hydraulic adapter	
180	W922593520	1	Ball valve	
210	W921293560	1	Sticker	
220	W921293370	1	Socket spanner	
900	---	1	Assembly and instruction manual	This manual

Installation

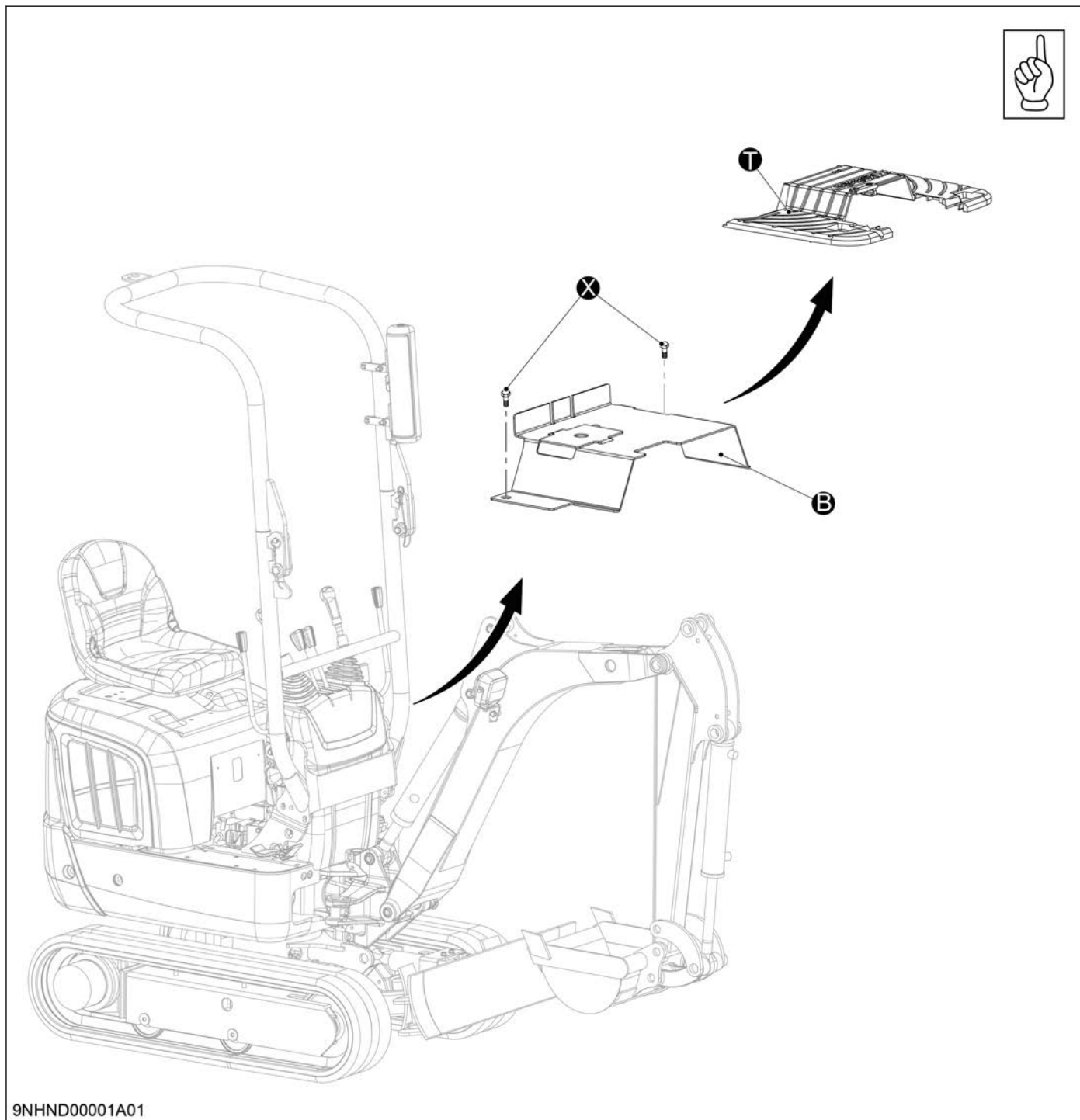
K008-5 installation

1. Unlock and open the bonnet (M).

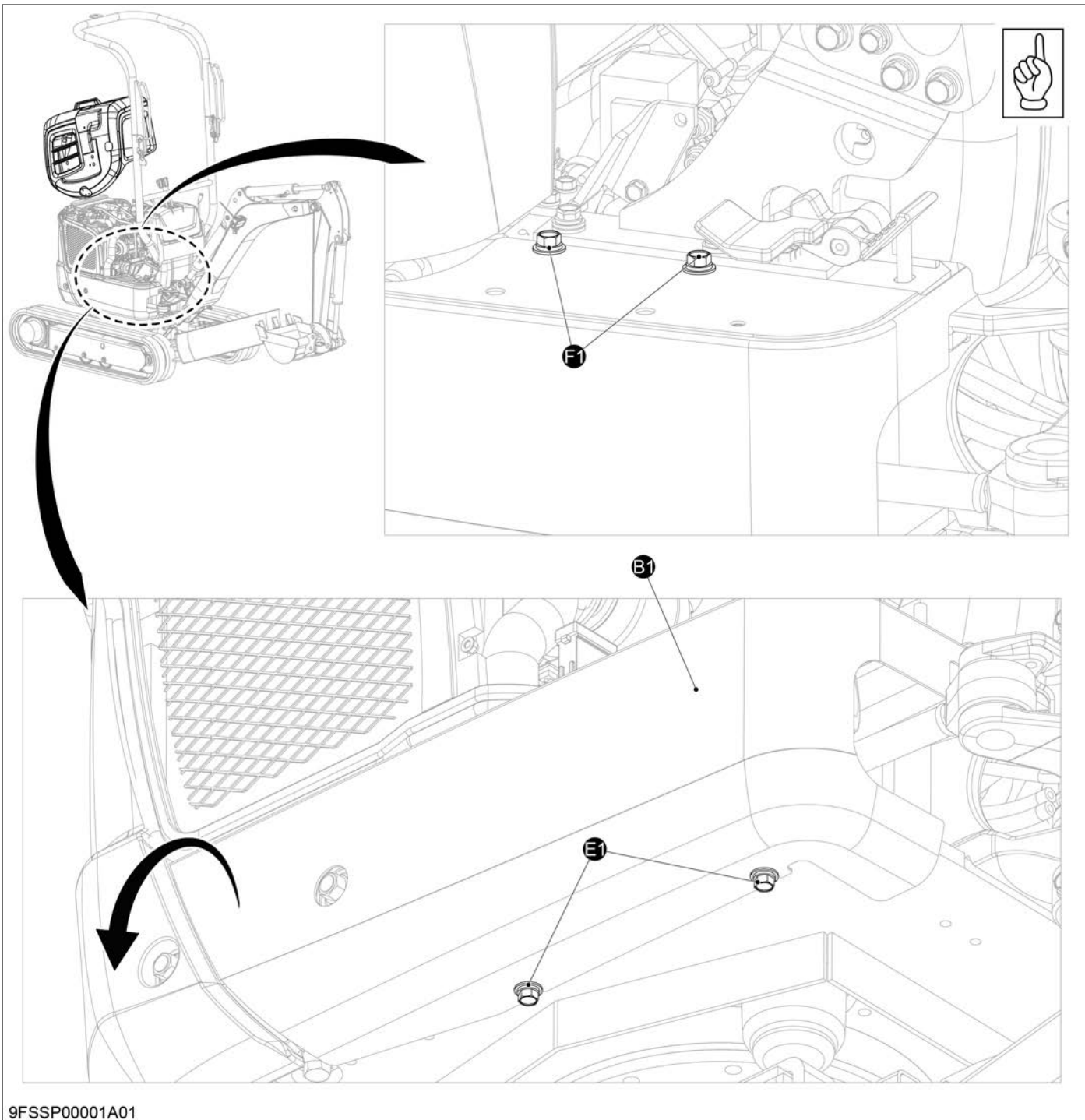


ASSEMBLY

2. Remove the foot mat and the floor plate:
 - a. Remove the foot mat (T) from the footwell.
 - b. Remove the hexagon head bolts (X) followed by the floor plate (B).



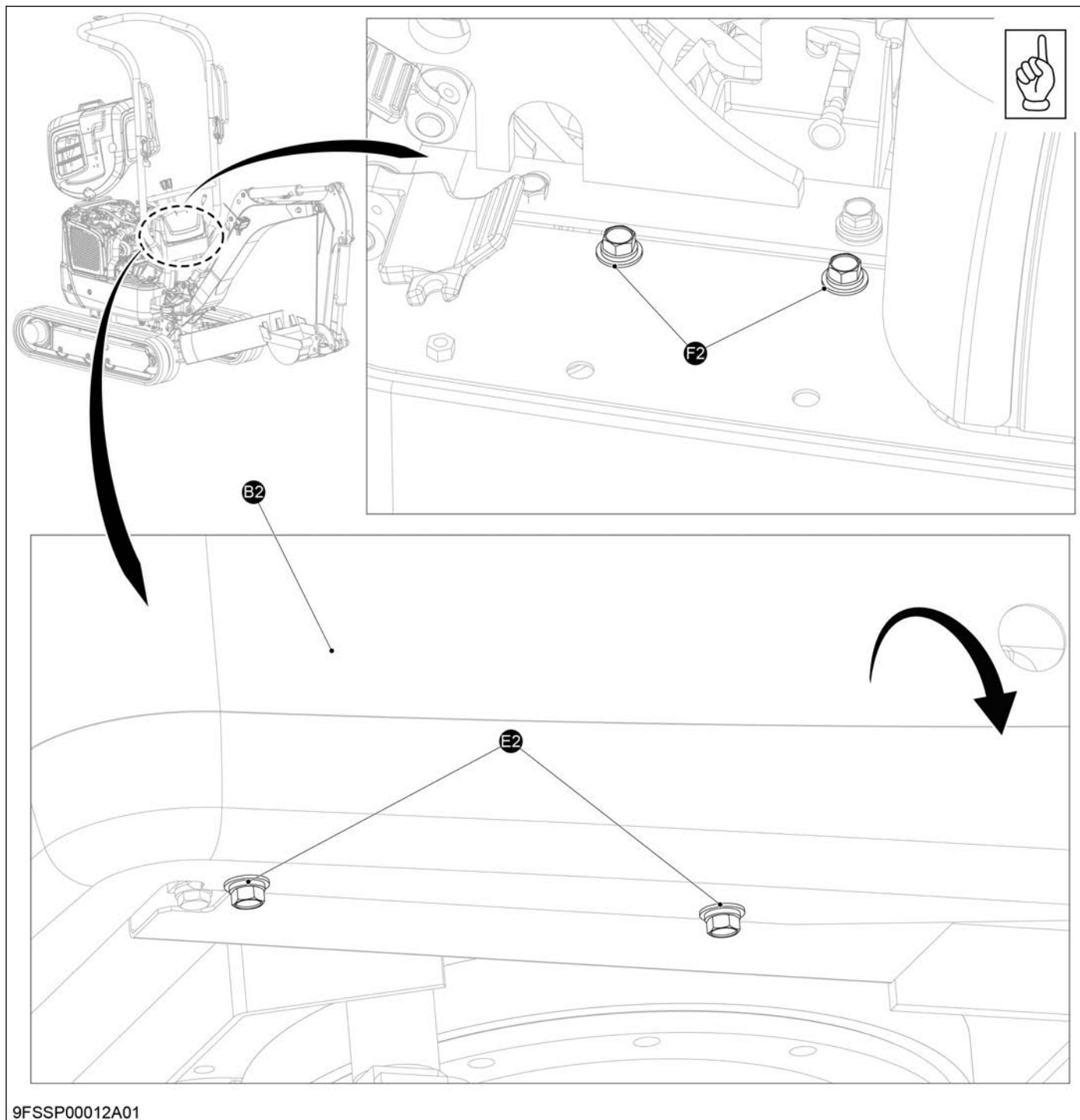
3. Remove the side cover (B1) on the right:
- Remove the hexagon head bolts (F1).
 - Undo the hexagon head bolts (E1) and then remove the side cover (B1).



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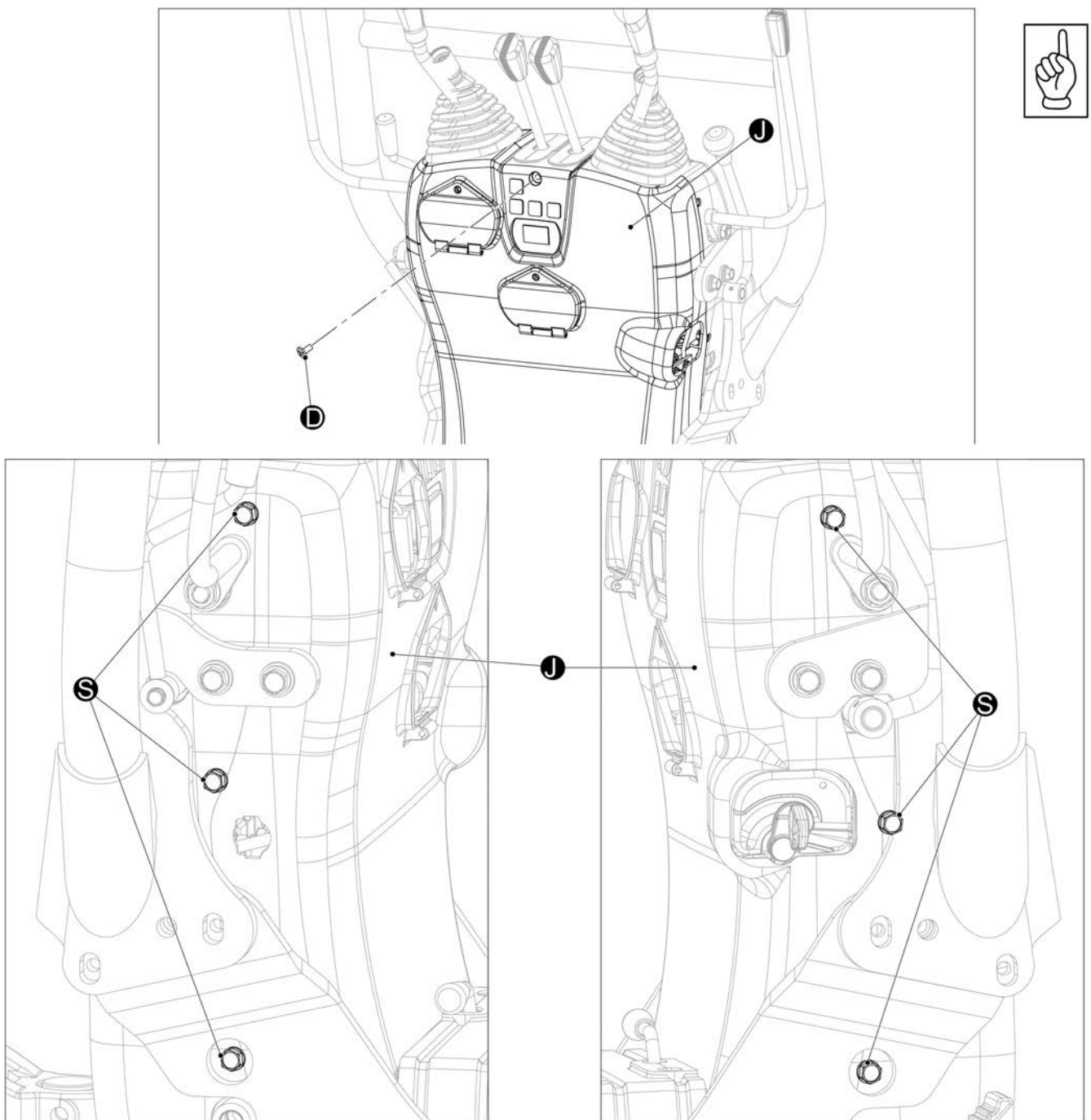
ASSEMBLY

4. Remove the side cover (B2) on the left:
 - a. Remove the hexagon head bolts (F2).
 - b. Undo the hexagon head bolts (E2) and then remove the side cover (B2).



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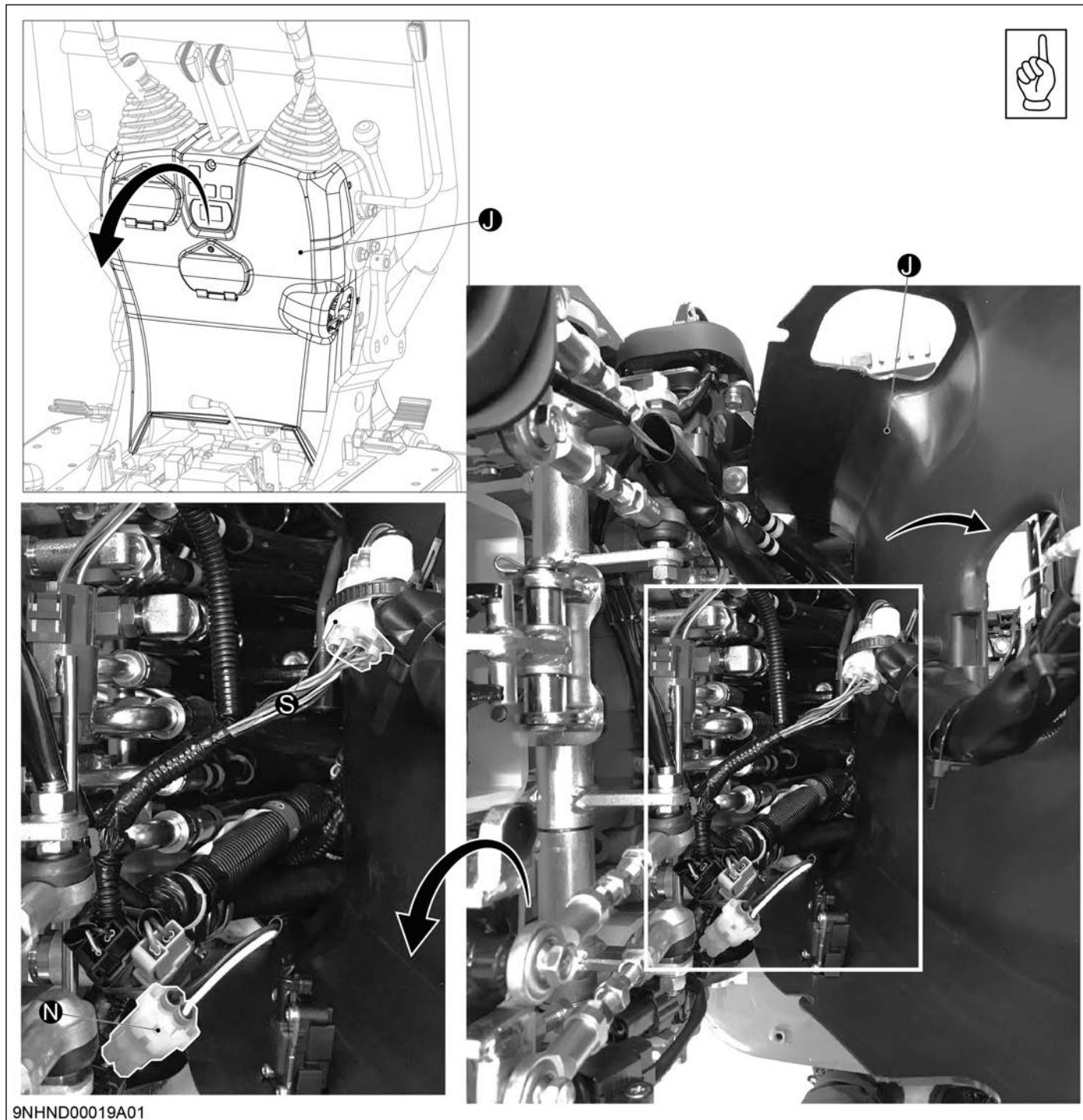
5. Remove the covering (J) from the control area:
- Undo the hexagon head bolts (S).
 - Remove the Philips screw (D).
 - Set the covering (J) down towards the seat.



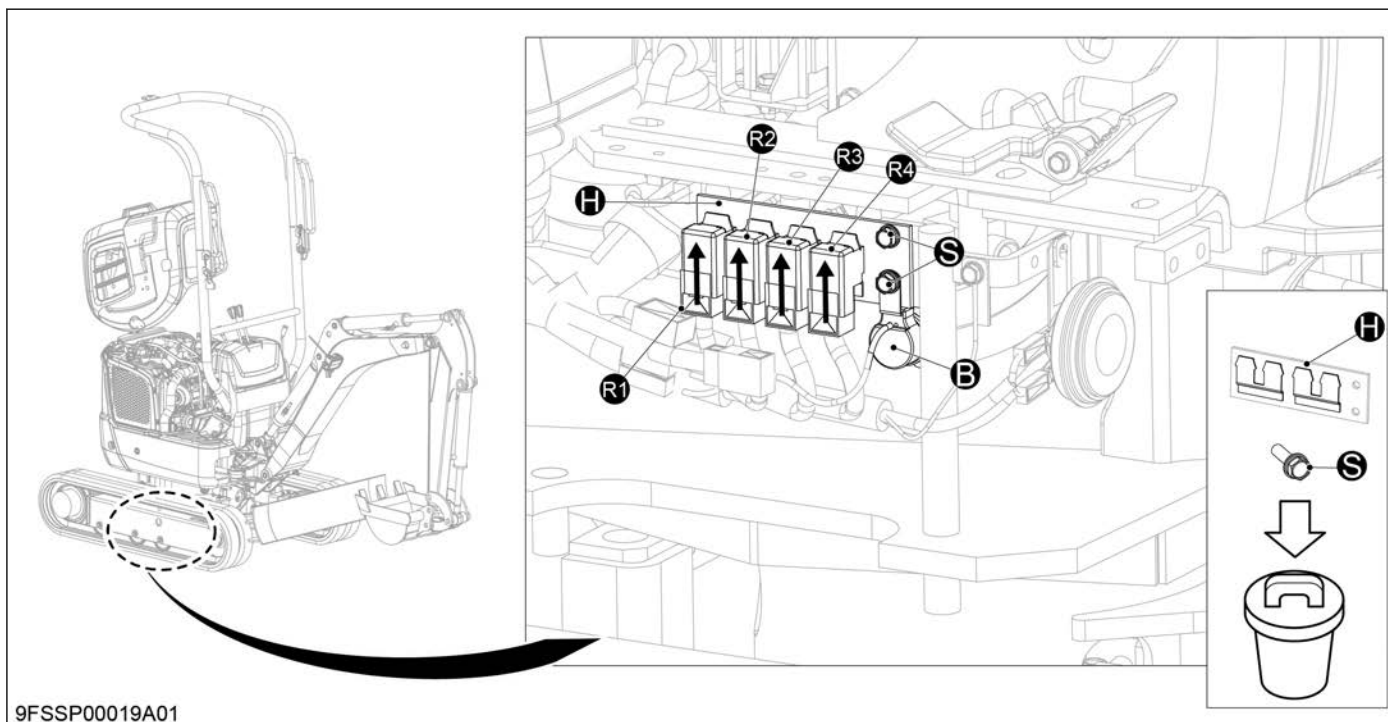
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ASSEMBLY

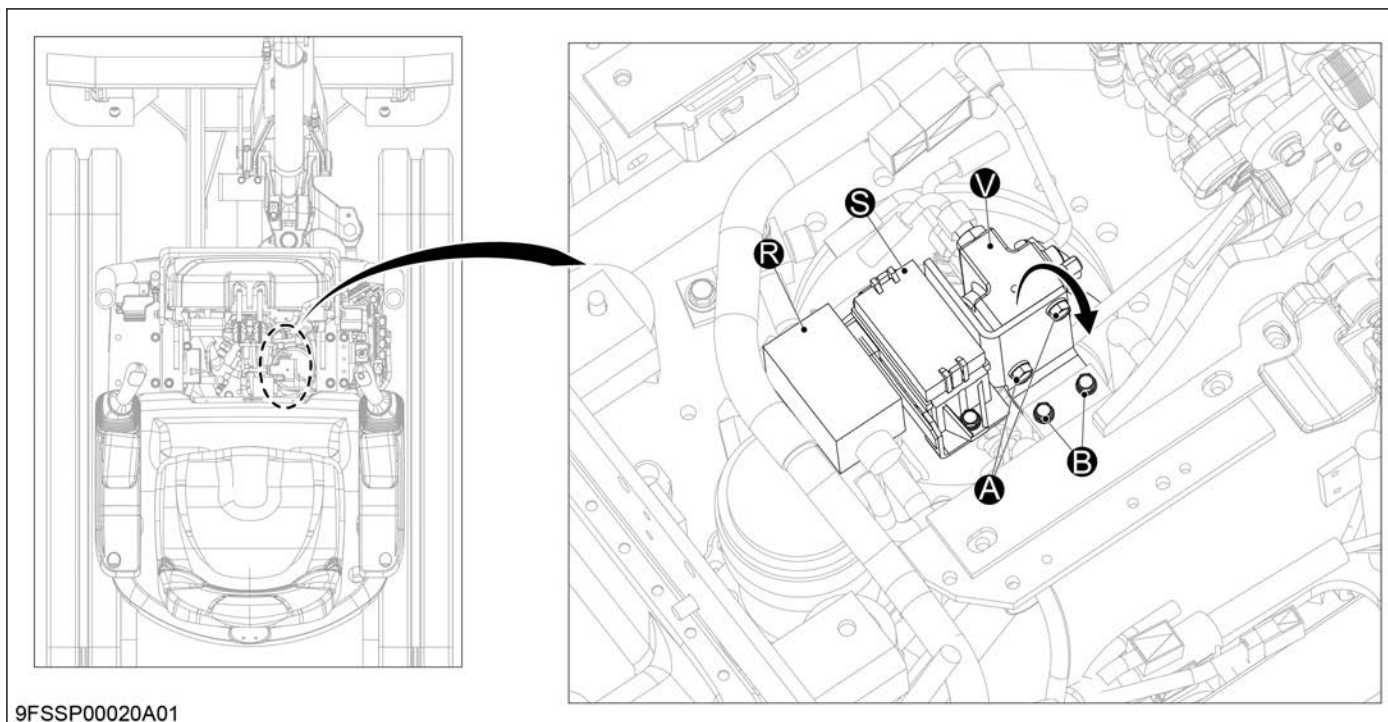
6. Disconnect the electrical wire:
 - a. Disconnect the connectors (S) and (N).
 - b. The covering (J) can now be fully removed.



7. Remove the relay holder (H):
- Remove the relays (R1), (R2), (R3) and (R4) upwards and set to the side.
 - Remove the hexagon head bolts (S) and set the buzzer (B) to the side.
 - Dispose of the hexagon head bolts (S) and the relay holder (H).

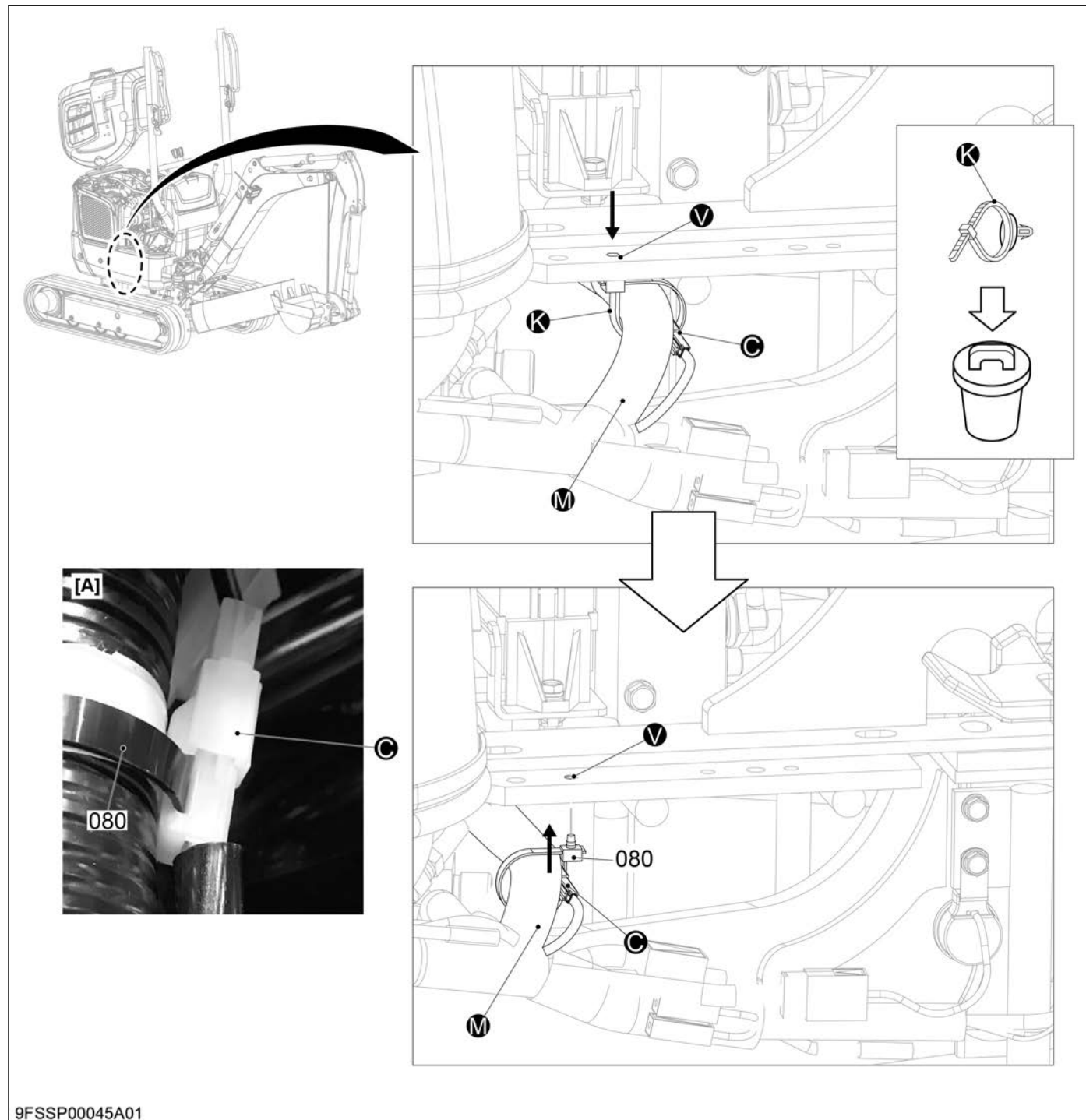


8. Remove in the footwell:
- Remove the hexagon head bolts (A) followed by the hexagon head bolt (B).
 - Carefully push the hydraulic valve (V) and fuse box (S) with relay box (R) to the side so that there is more space for the next step.



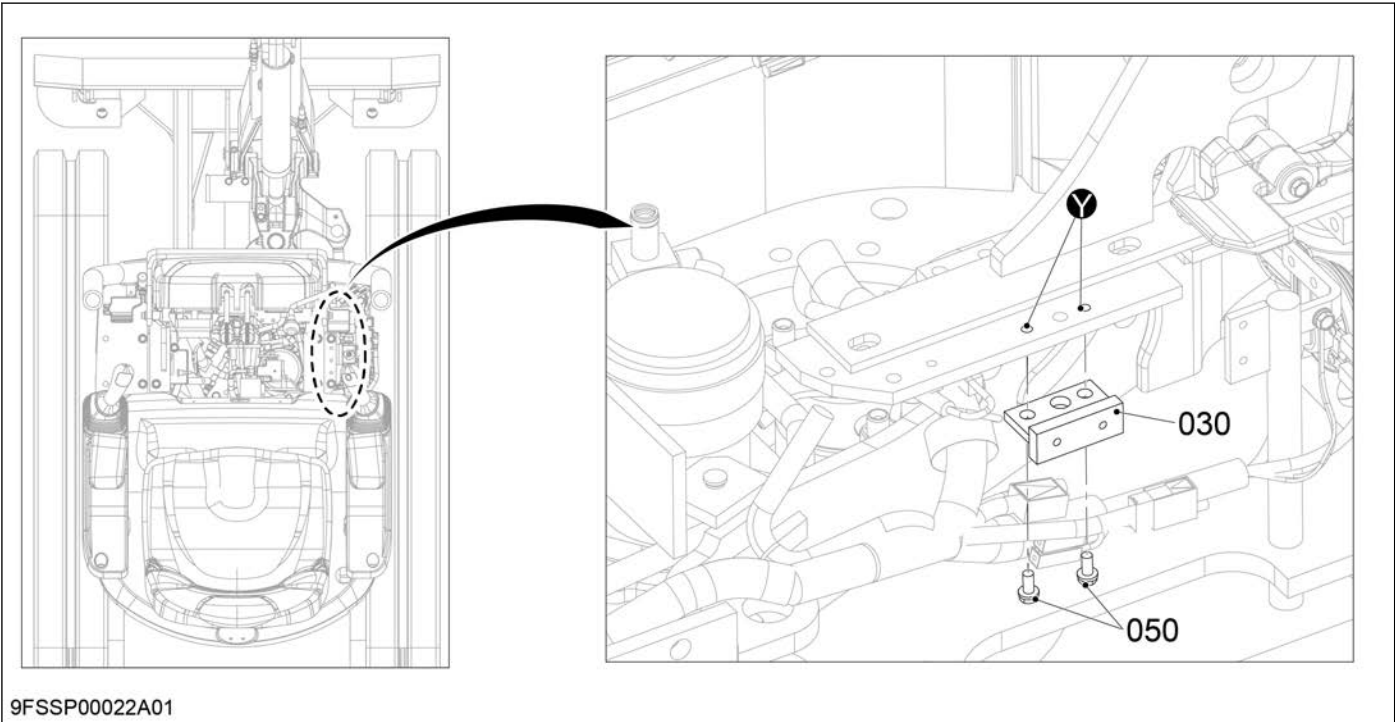
ASSEMBLY

9. Modify the position of the original cable harness (~#00118): the following assembly step is required to serial numbers ~10118.
- Press the cable tie (K) out of the hole (V) and remove from the cable harness (M).
 - Dispose of the cable tie (K).
 - Secure the new cable tie (080) through the connector (C) to the cable harness (M) as shown in detail [A] and press into the hole (V).



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10. Fit the bracket (030) to the frame (Y) with the hexagon head bolts (050) from below.



Item	Torque
Hexagon head bolt (050)	23.5 - 27.5 N · m

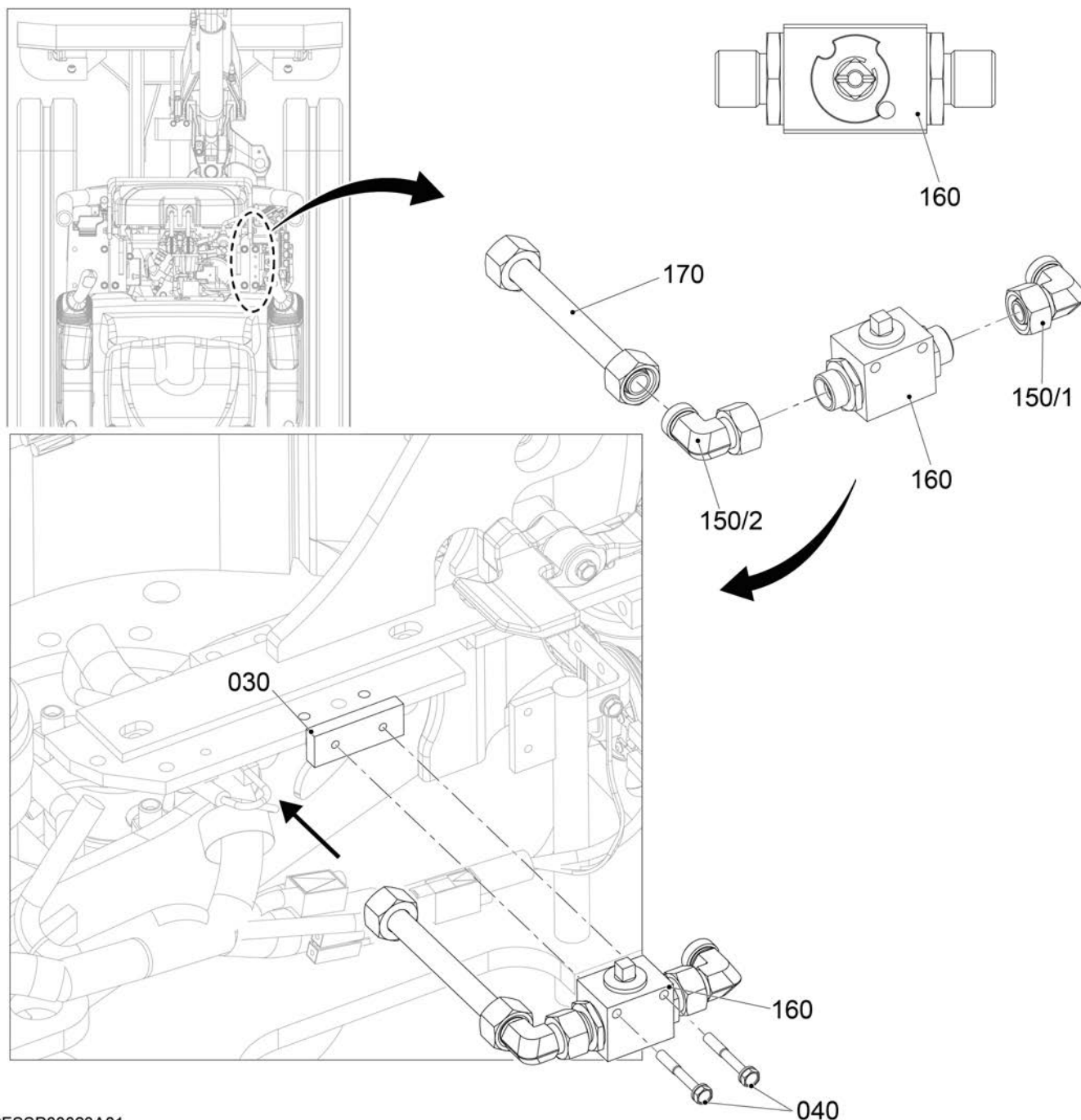
ASSEMBLY

11. Prefit the ball valve (160):

- a. Fit the hydraulic adapters (150/1) and (150/2) to the ball valve (160) as shown.
- b. Fit the hydraulic pipe (170) to the hydraulic adapter (150/1).
- c. Fit the ball valve (160) to the bracket (030) with the hexagon head bolts (040) as shown.

NOTE

The hydraulic pipe must be guided past the bracket (030) on the left as shown.



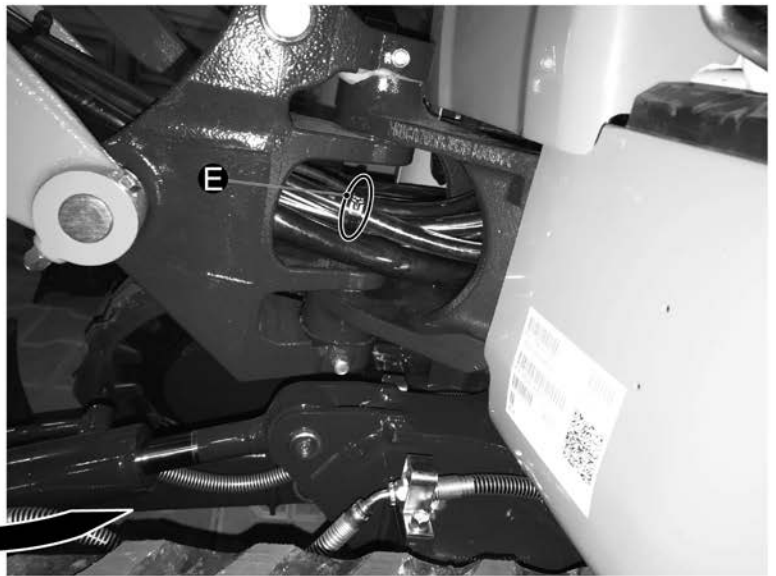
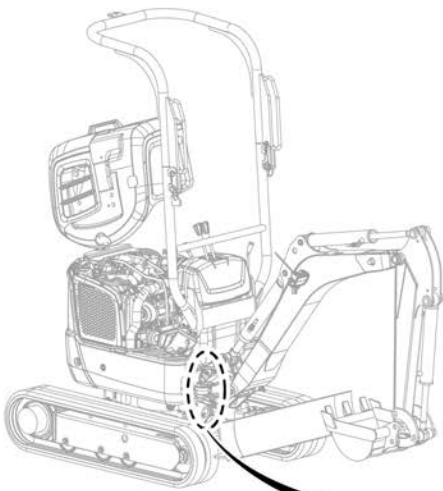
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Item	Torque
Hydraulic adapter (150)	50 - 55 N · m
Hydraulic tubing (170)	50 - 55 N · m
Hexagon head bolt (040)	9.8 - 11.3 N · m

12. Undo the cable tie (E).

■ **NOTE**

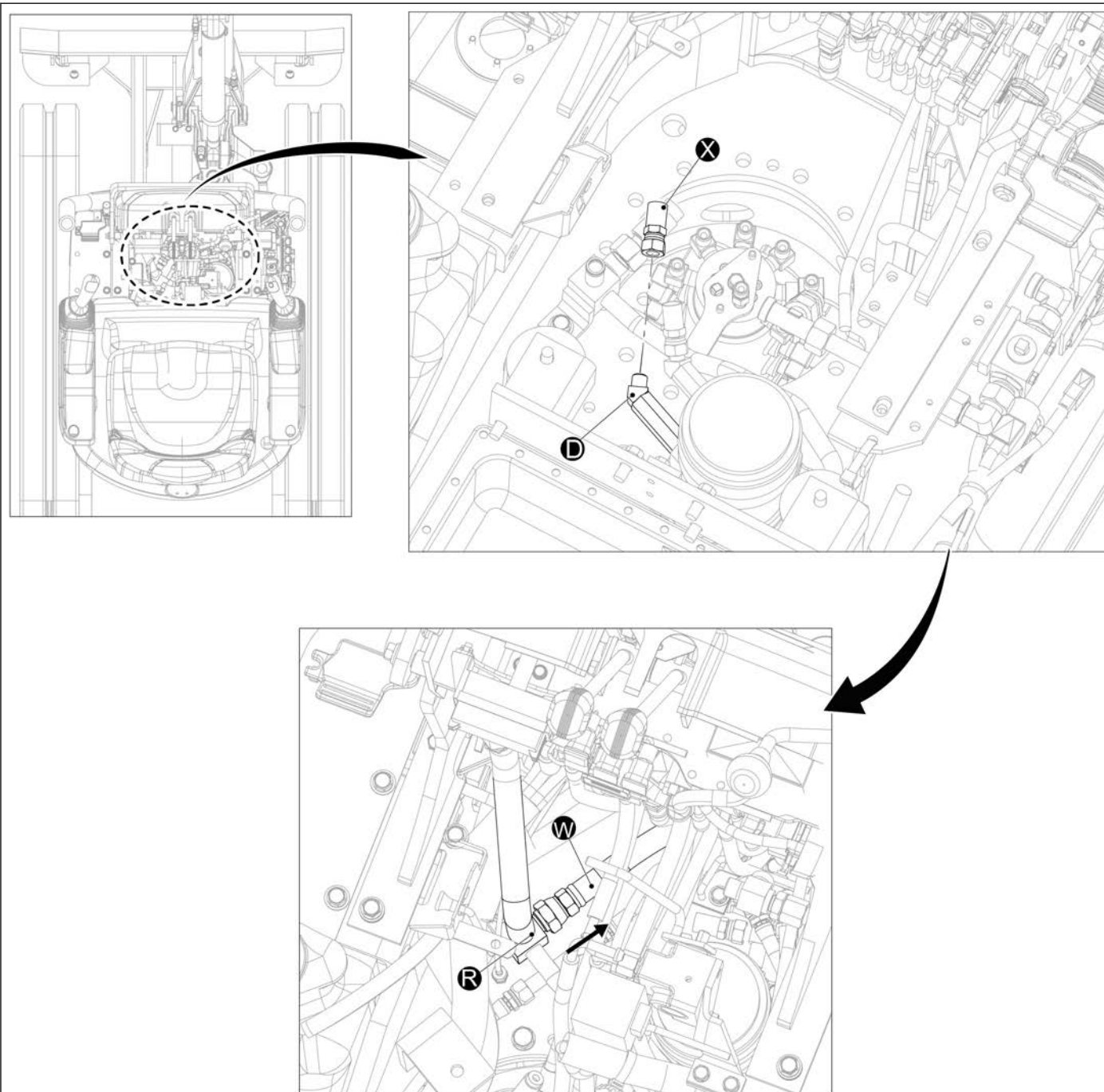
To simplify the following step, the cable tie (E) in the tilt headstock area can be released.



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13. Remove the hydraulic hose (X):

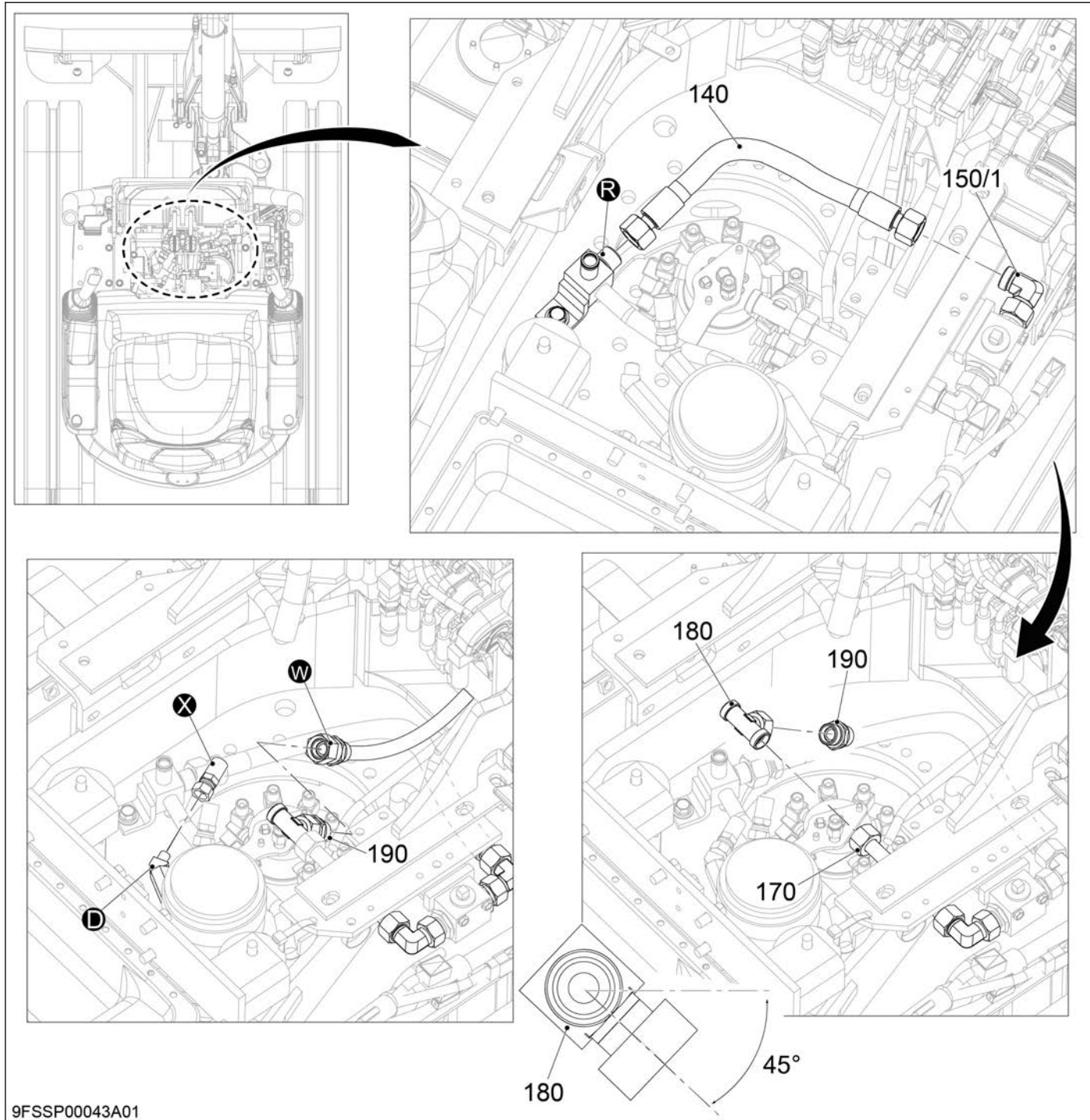
- a. Remove the hydraulic hose (X) from the hydraulic adapter (D).
- b. Remove the hydraulic hose (W/red) from the hydraulic pipe (R).



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14. Fit the hydraulic hose (140):

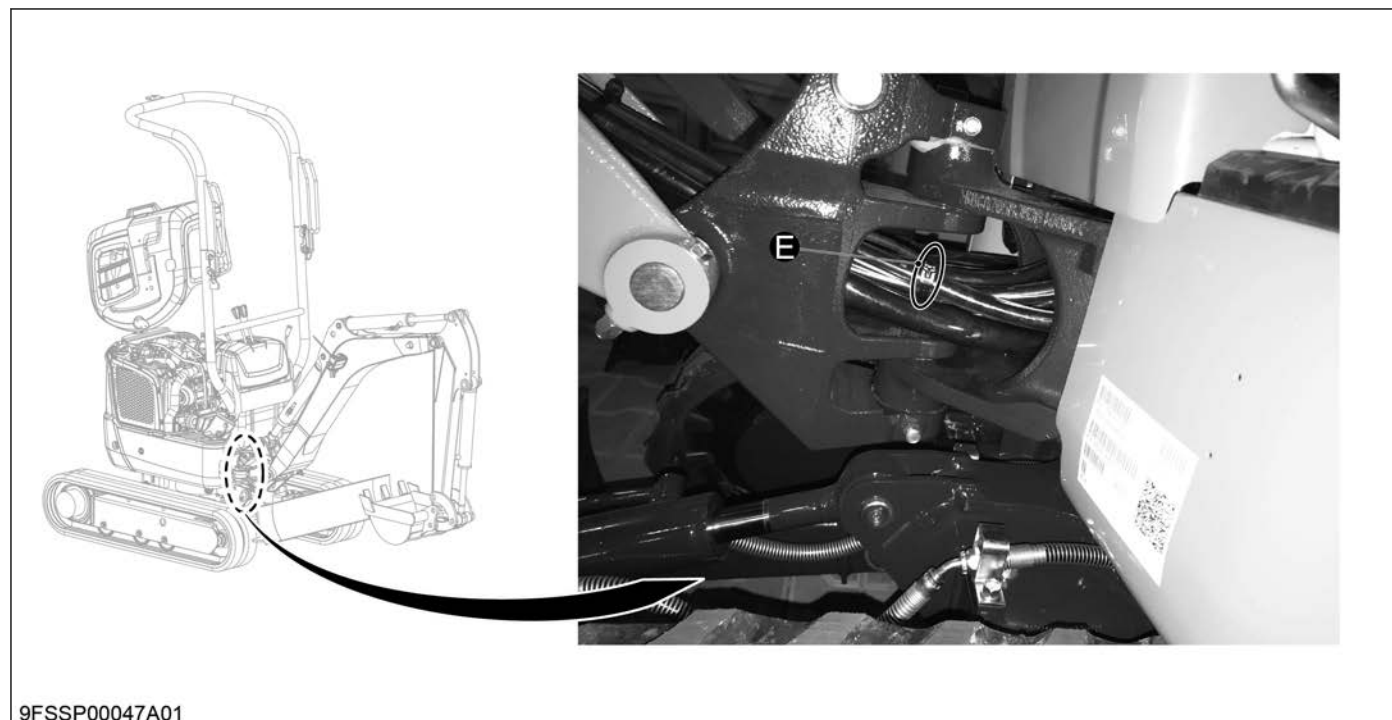
- a. Fit the hydraulic hose (140) with the inch thread to the hydraulic pipe (R).
- b. Fit the hydraulic hose (140) with the metric thread to the hydraulic adapter (150/1).
- c. Fit the hydraulic adapter (190) to the hydraulic adapter (180).
- d. Fit the hydraulic adapter (180) to the hydraulic pipe (170) at the specified angle of 45° as shown.
- e. Fit the hydraulic hose (W/red) to the hydraulic adapter (190).
- f. Fit the hydraulic hose (X) to the hydraulic adapter (D) in its original position.



ASSEMBLY

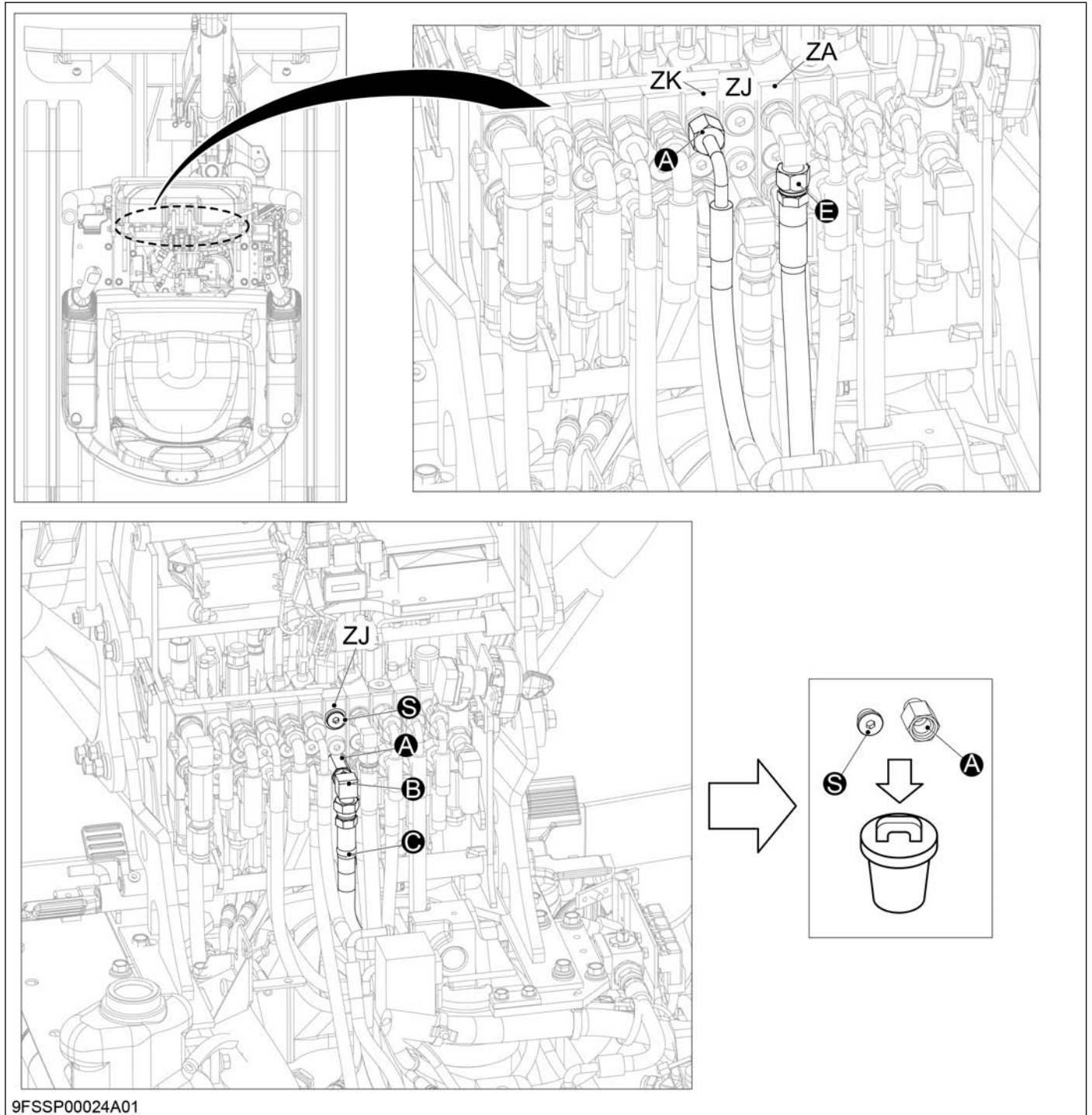
Item	Torque
Hydraulic hose (140) to (150)	50 - 55 N · m
Hydraulic hose (140) to (R)	50 - 55 N · m
Hydraulic adapter (190)	70 - 80 N · m
Hydraulic adapter (180)	50 - 55 N · m
Hydraulic hose (W/red)	50 - 55 N · m
Hydraulic hose (X)	24.5 - 29.4 N · m

15. Fit the cable tie (E) in its original position as shown.



16. Remove the control valve:

- a. To simplify the next assembly step, remove the upper hydraulic hoses (A) and (E/red) in sections (ZK) and (ZA).
- b. Remove the hydraulic hose (C/blue) as well as the hydraulic adapters (B) and (A) from section (ZJ) of the control valve.
- c. Remove the threaded plug (S) and dispose of it along with the hydraulic adapter (A).



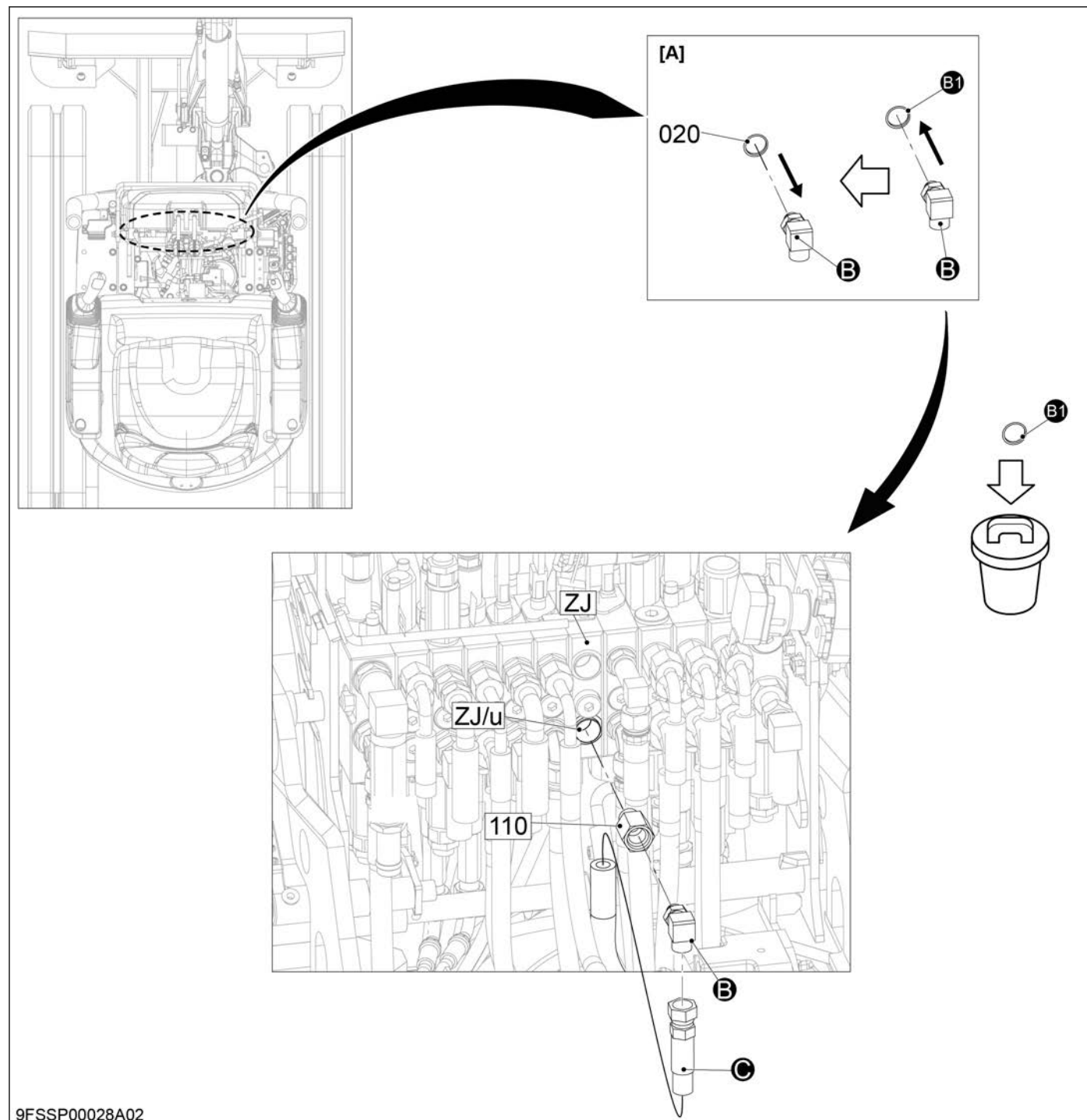
ASSEMBLY

17. Assembly on the check valve:

■ NOTE

Replace the sealing ring (B1) from the previously removed hydraulic adapter (B) with the sealing ring (020) (detail A).

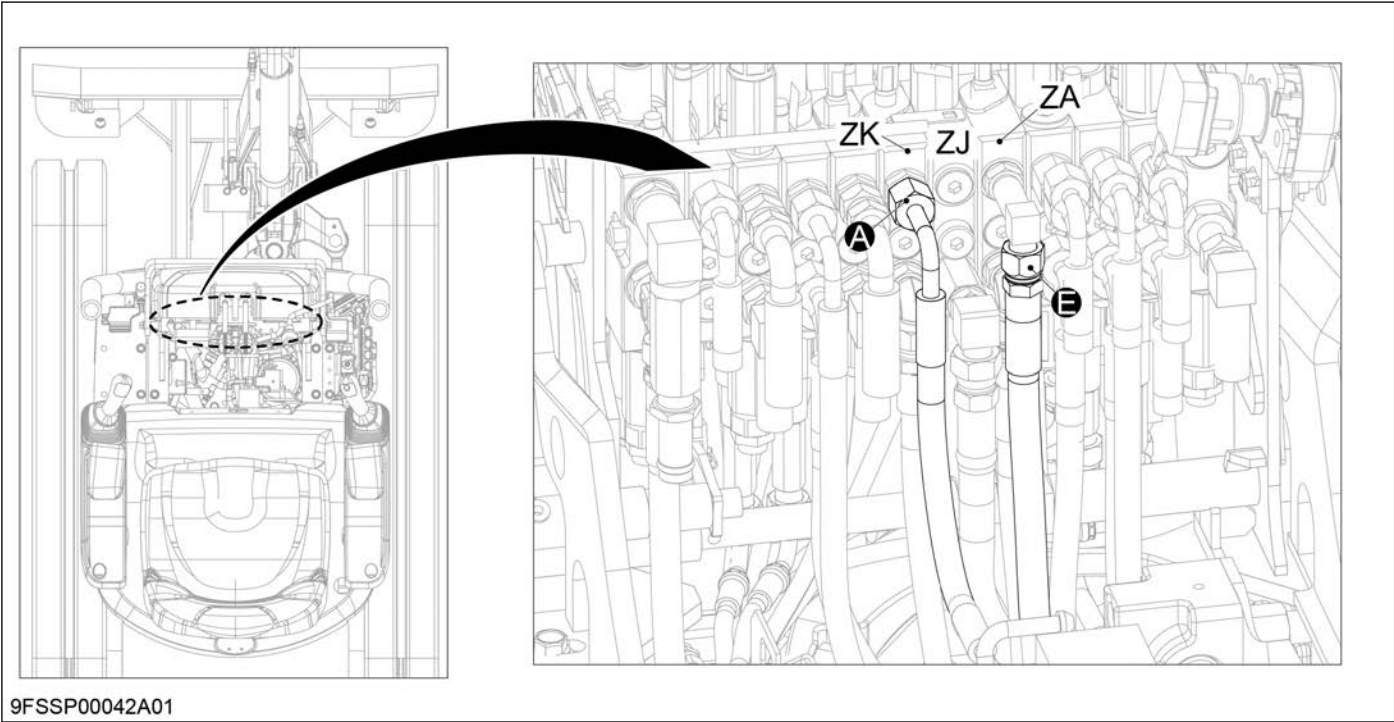
- Fit the hydraulic adapter (110) to section (ZJ/u).
- Fit the hydraulic adapter (B) to the hydraulic adapter (110).
- Fit the hydraulic hose (C/blue) to the hydraulic adapter (B).



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Pos	Torque
Hydraulic hose (C)	37.5 - 42.1 N · m
Hydraulic adapter (B)	24.5 - 29.4 N · m
Hydraulic adapter (110)	24.5 - 29.4 N · m

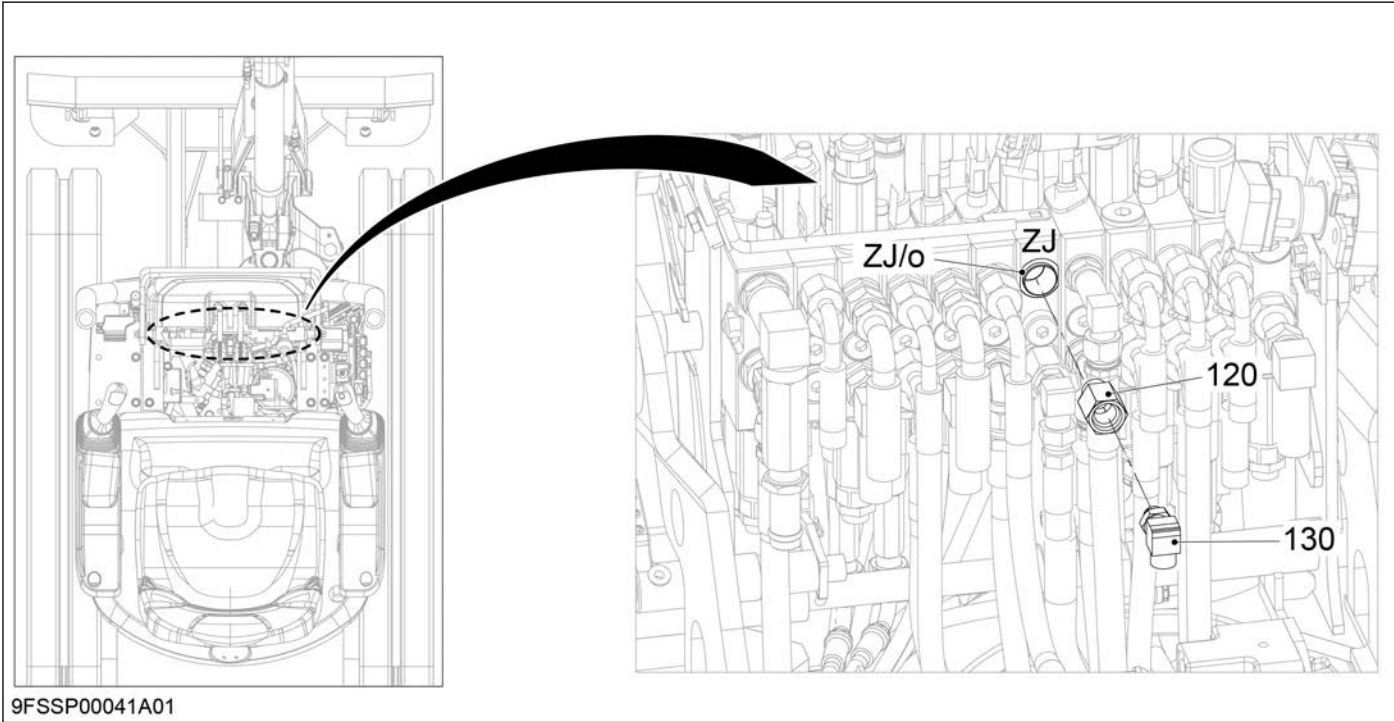
18. Assembly on the check valve:
- a. Fit the previously removed hydraulic hoses (A) and (E/red) to sections (ZK) and (ZA) as shown.



Pos	Torque
Hydraulic adapter (A)	24.5 - 29.4 N · m
Hydraulic adapter (E)	24.5 - 29.4 N · m

ASSEMBLY

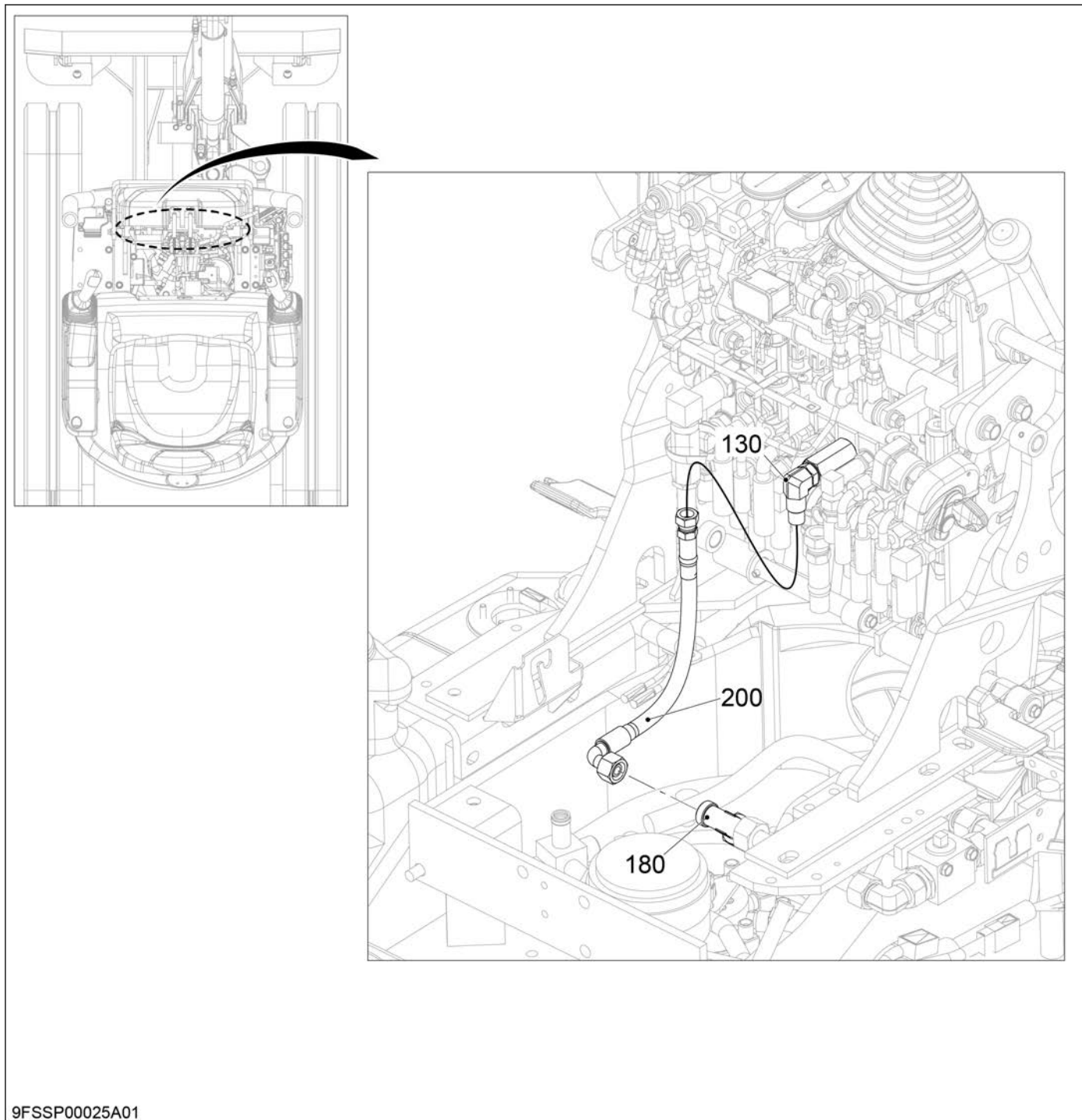
19. Assembly on the check valve:
- a. Fit the hydraulic adapter (120) to the section (ZJ/o).
 - b. Fit the hydraulic adapter (130) to the hydraulic adapter (120).



Pos	Torque
Hydraulic adapter (120)	24.5 - 29.4 N · m
Hydraulic adapter (130)	24.5 - 29.4 N · m

20. Fit the hydraulic hose (200) to the control valve:

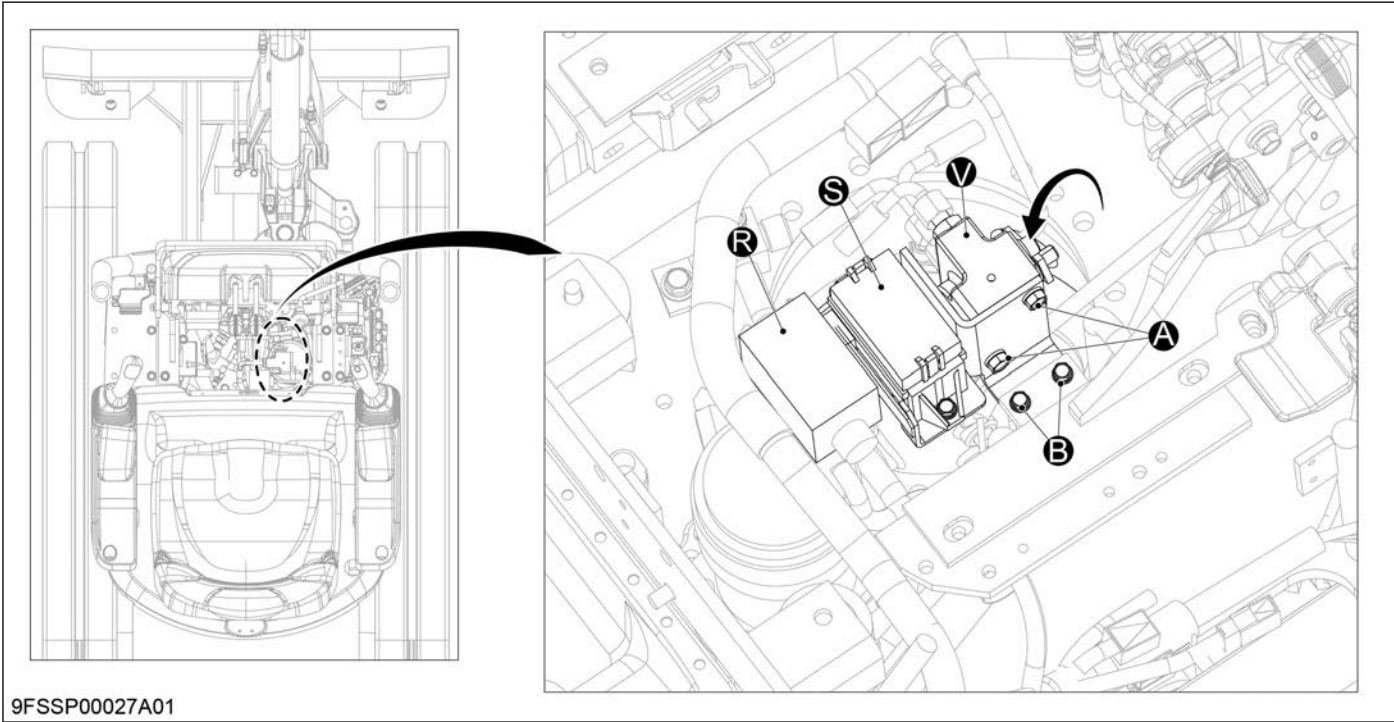
- a. Fit the hydraulic hose (200) with the 90° fitting to the hydraulic adapter (180).
- b. Fit the hydraulic hose (200) to the hydraulic adapter (130) with the straight fitting.



Pos	Torque
Hydraulic hose (200) on hydraulic adapter (130)	37.5 - 42.1 N · m
Fit the hydraulic hose (200) to the hydraulic pipe (180).	50 - 55 N · m

ASSEMBLY

21. Fit in the footwell:
- a. Fit the fuse box (S) and relay box (R) in their original positions with the hexagon head bolts (B).
 - b. Fit the hydraulic valve (V) with the hexagon head bolts (A) as shown.

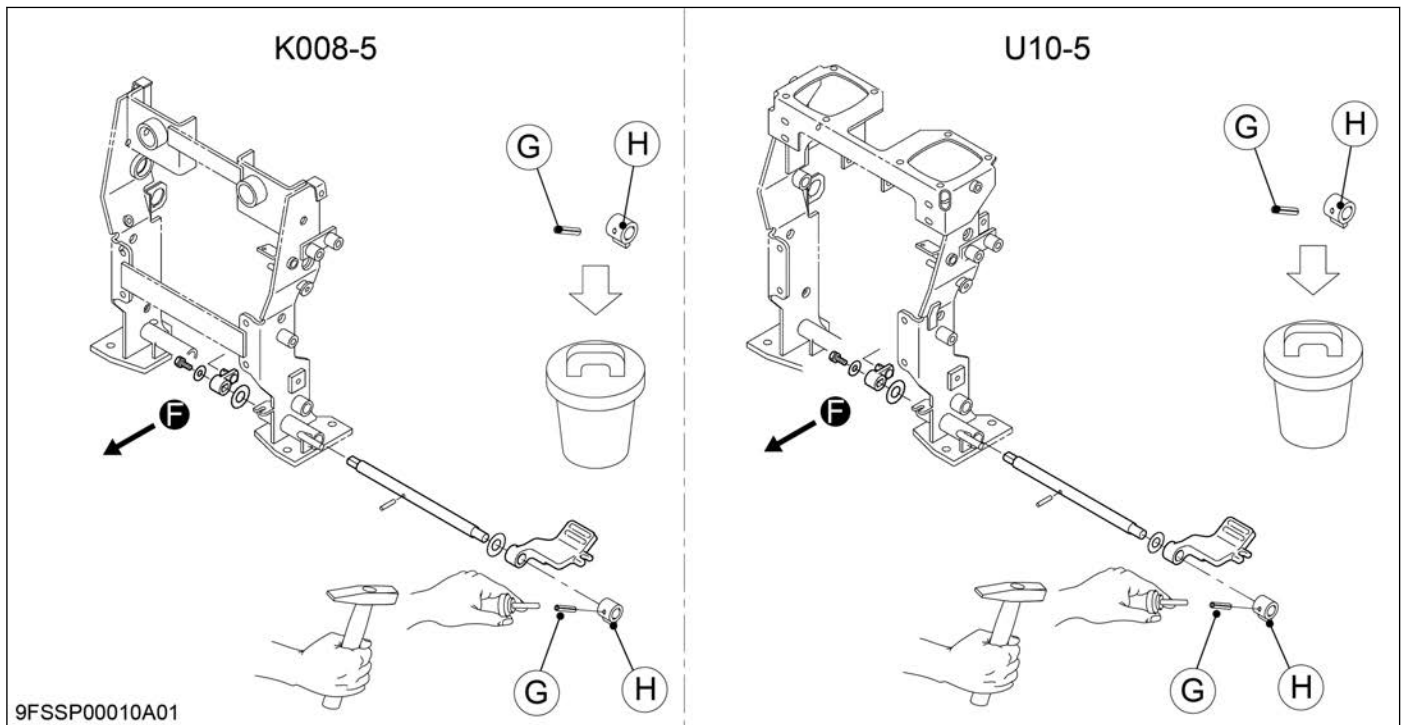


Pos	Torque
Hexagon head bolt (B)	23.5 - 27.5 N · m
Hexagon head bolt (A)	23.5 - 27.5 N · m

22. Remove the clamping sleeve (G) from the left pedal, remove the sleeve (H) and dispose of both parts.

■ **NOTE**

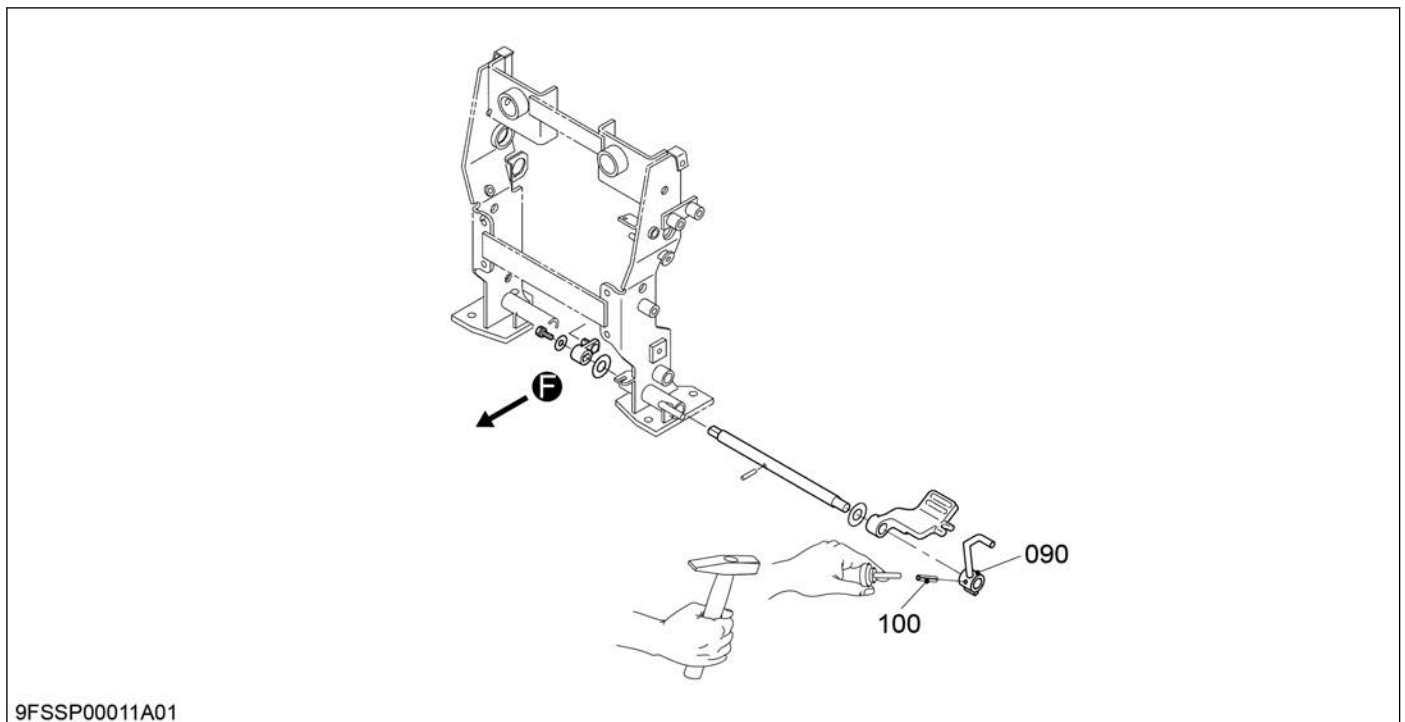
(F) indicates the direction of travel.



23. Fit the bracket (090) with clamping sleeve (100) to the left pedal as shown.

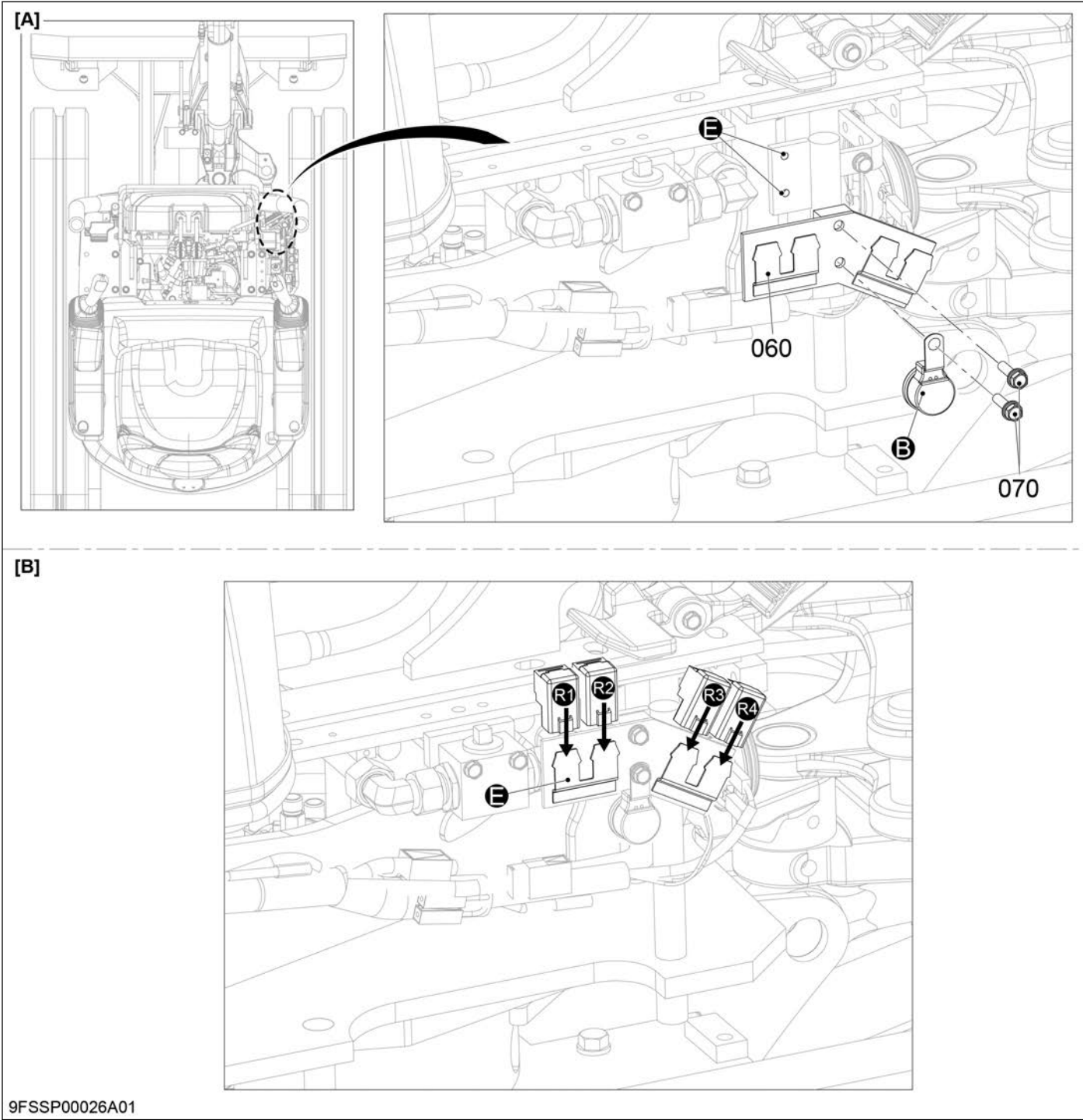
■ **NOTE**

(F) indicates the direction of travel.



ASSEMBLY

24. Fit the new relay holder (060):
- a. Fit the relay holder (060) and the buzzer (B) with the hexagon head bolts (070).
 - b. Push the relays (R1), (R2), (R3) and (R4) onto the relay holder (060) from above as shown.



Pos	Torque
Hexagon head bolt (070)	9.8 - 11.3 N · m

25. Fit the covering (J) in the control area:
- Roughly place the covering (J) in its original position.
 - Connect the connectors (S) together.

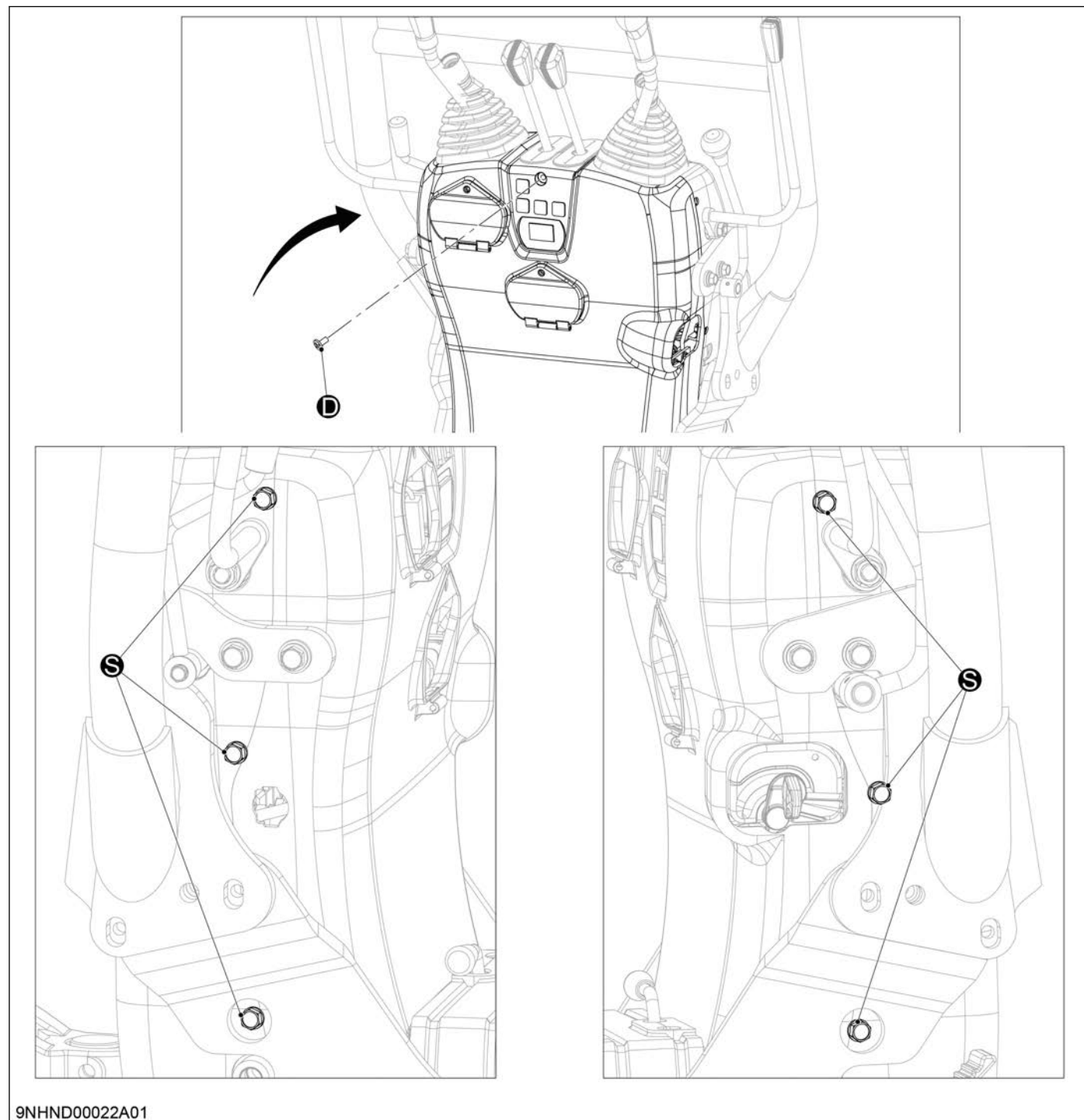


ASSEMBLY

26. Fit the covering (J):
- Place the covering (J) in its original position.
 - Fit the Philips screw (D).
 - Tighten the hexagon head bolts (S).

NOTE

When aligning the covering (J), ensure an even gap of max. 2 mm to the front covering.

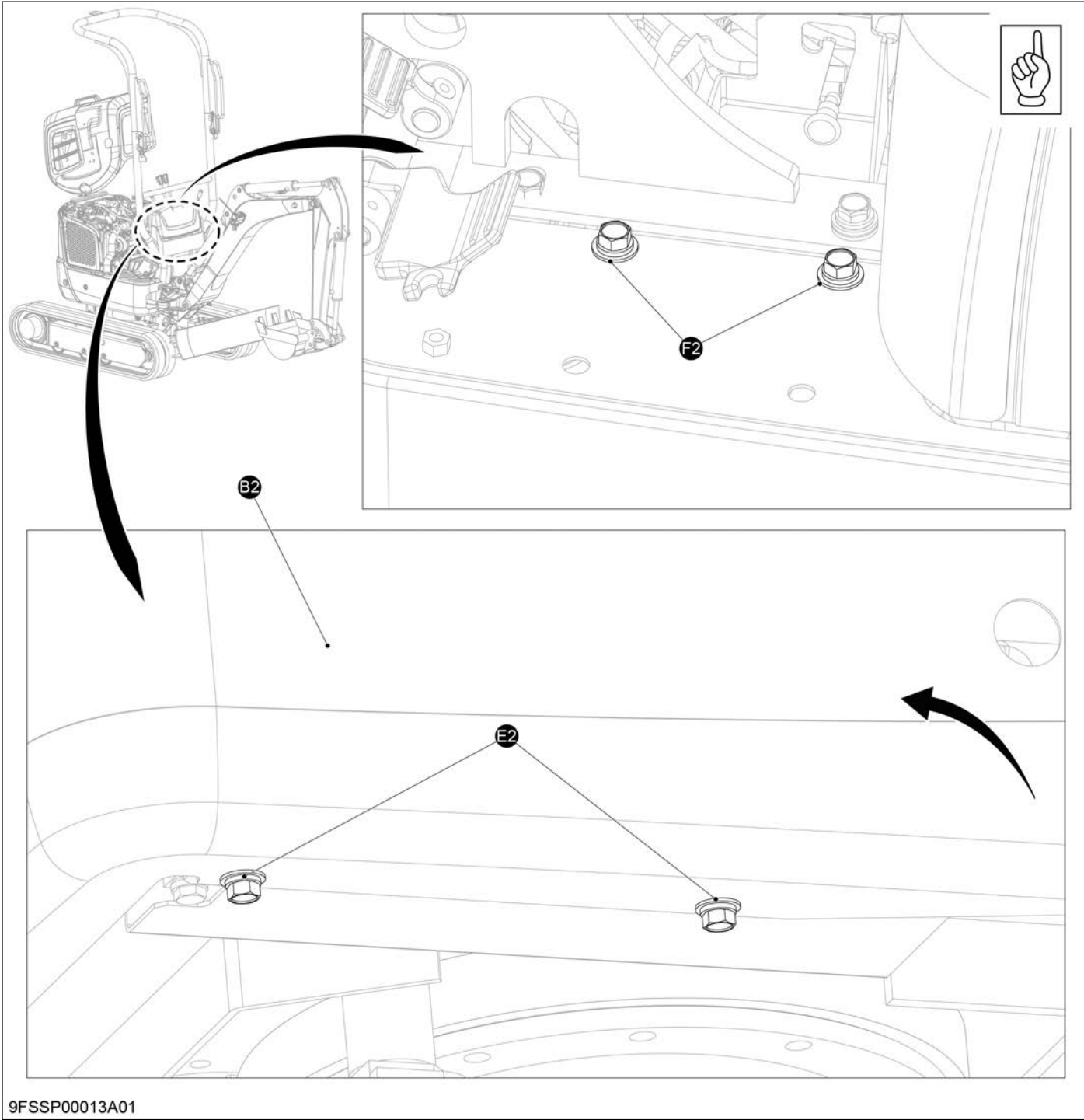


9NHND00022A01

Pos	Torque
Hexagon head bolt (S)	10 - 12 N · m

ASSEMBLY

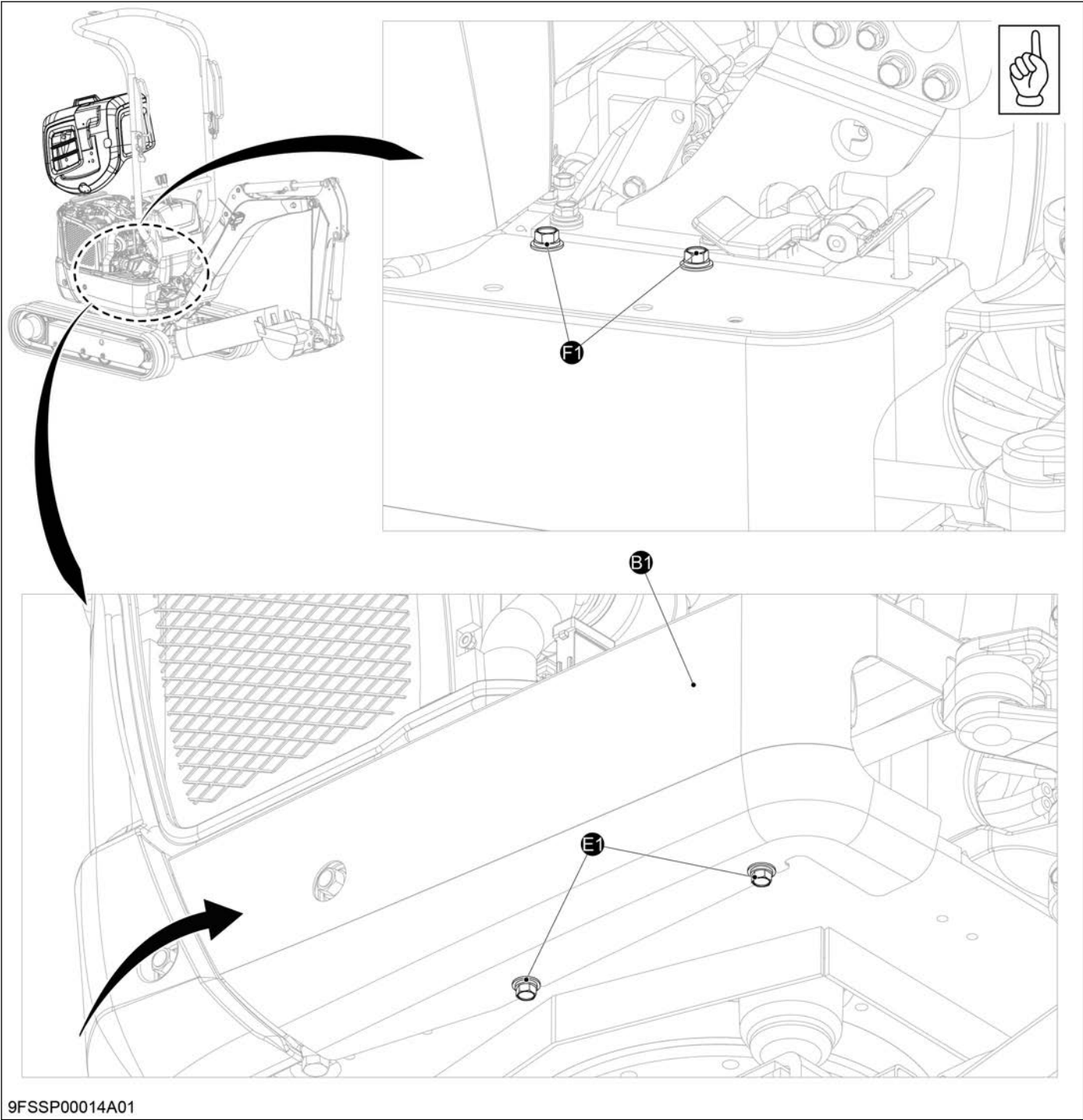
27. Fit the side cover (B2) on the left:
- a. Position the side cover (B2) and secure with the hexagon head bolts (F2).
 - b. Tighten the hexagon head bolts (E2).



9FSSP00013A01

Item	Torque
Hexagon head bolt (F2)	48.1 - 55.9 N · m
Hexagon head bolt (E2)	48.1 - 55.9 N · m

28. Fit the side cover (B1) on the right:
- a. Position the side cover (B1) and secure with the hexagon head bolts (F1).
 - b. Tighten the hexagon head bolts (E1).



Item	Torque
Hexagon head bolt (F1)	48.1 - 55.9 N · m
Hexagon head bolt (E1)	48.1 - 55.9 N · m

ASSEMBLY

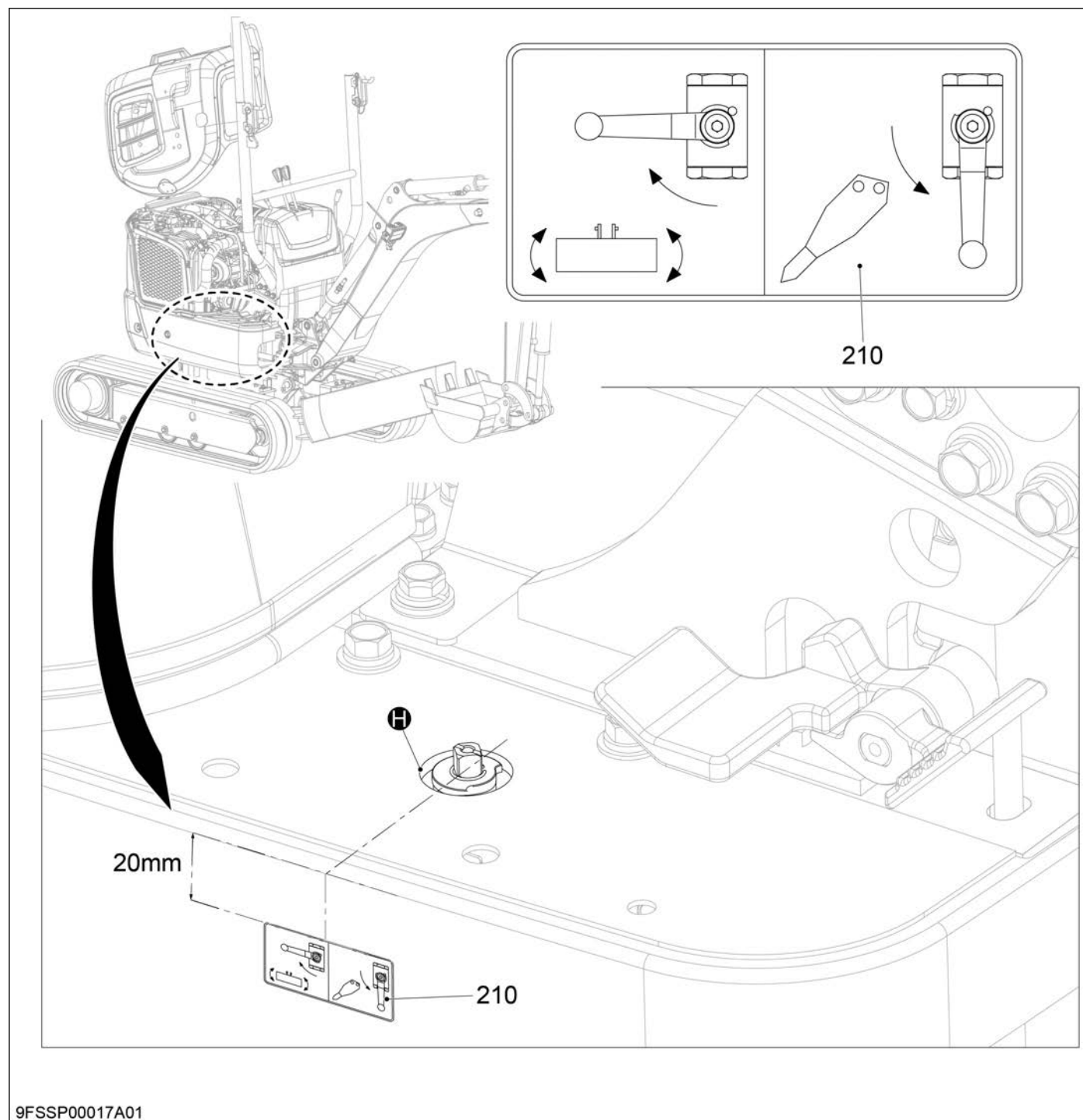
29. Affix the sticker (210) to the right covering as shown:

■ NOTE

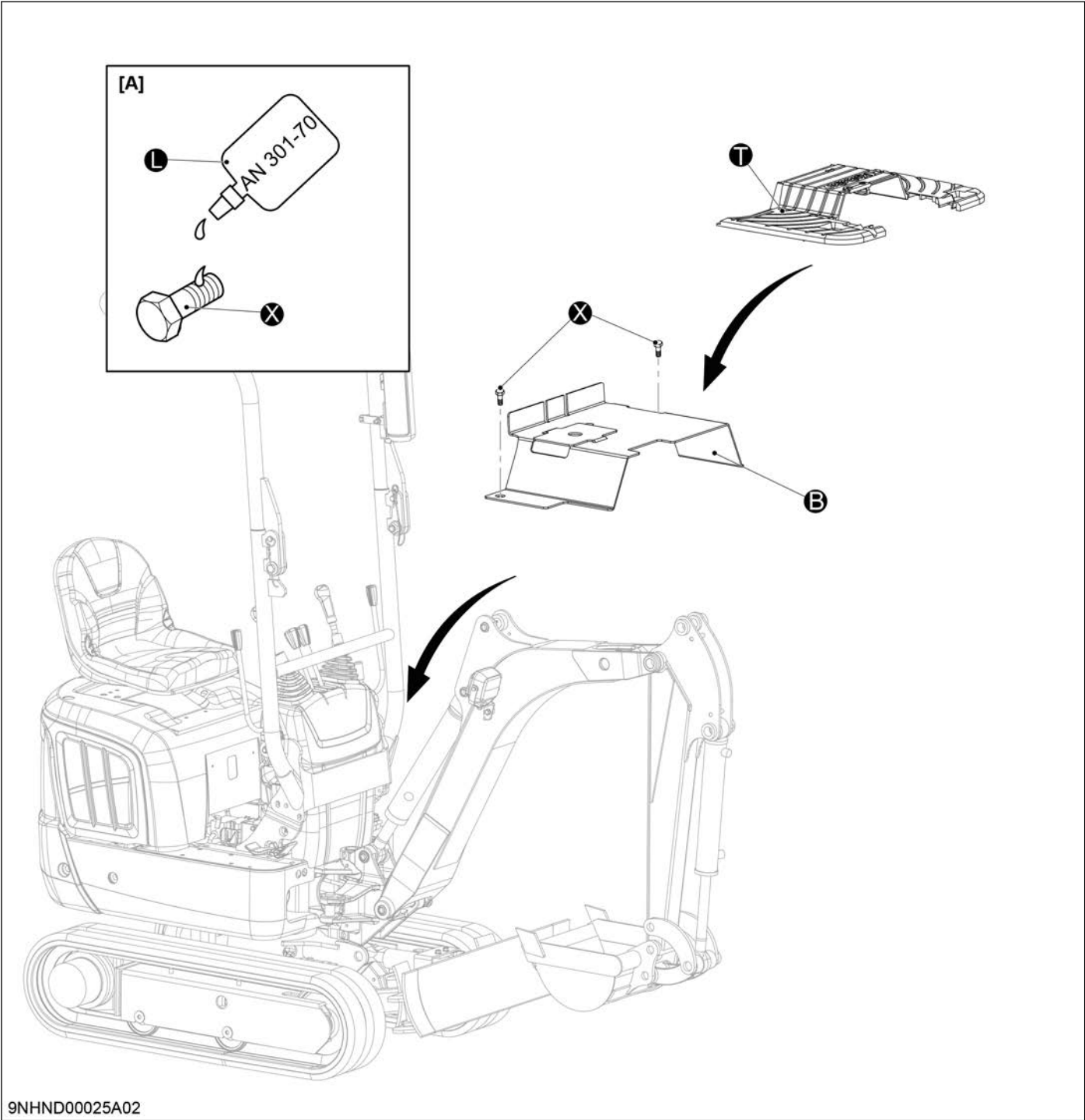
The spacing between the sticker and the top of the covering should be 20 mm.

■ NOTE

Align the sticker centrally to the hole (H).

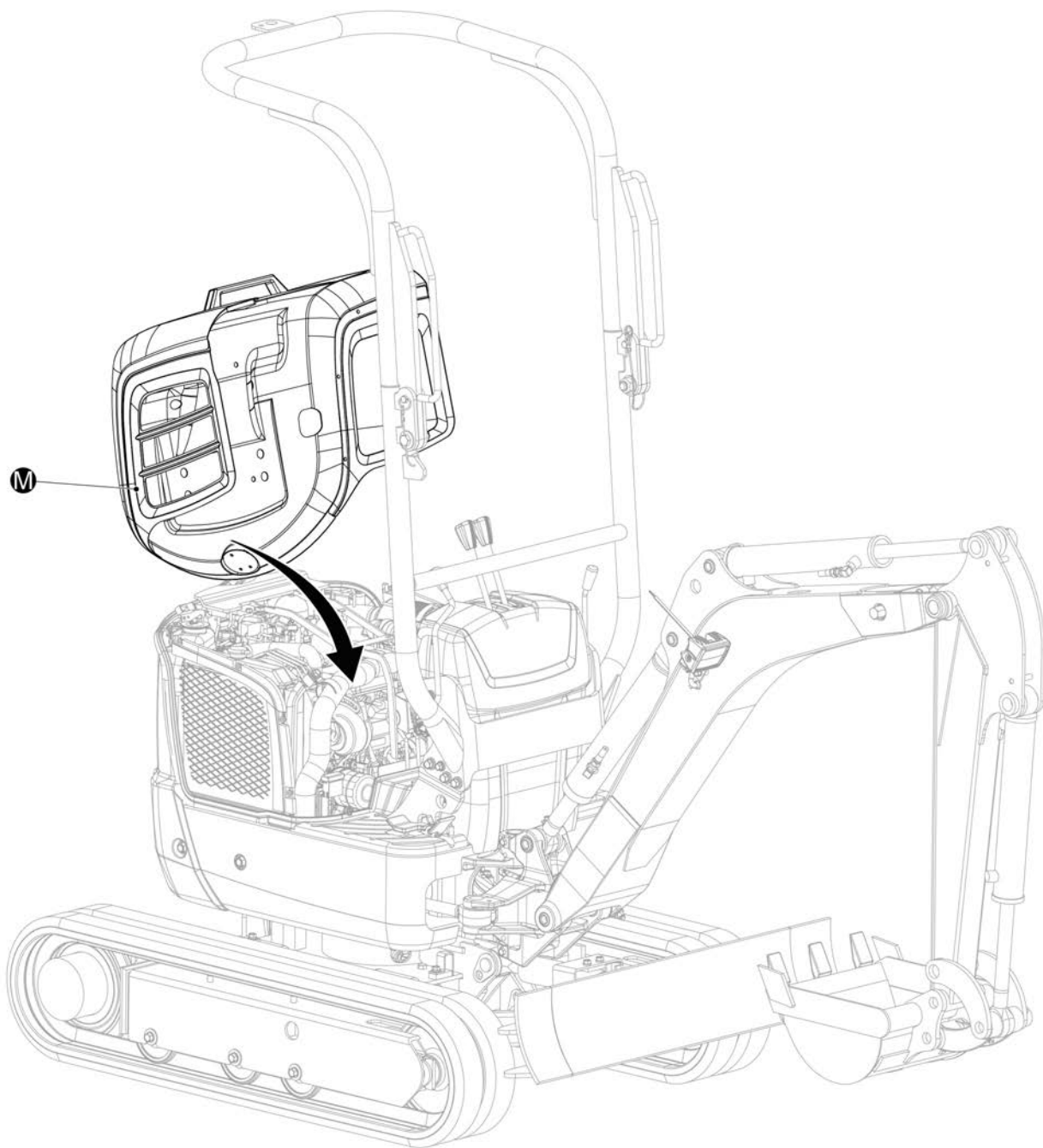


30. Fit the floor plate (B):
- a. Place the floor plate (B) in its original position.
 - b. As shown in detail [A], apply screw lock (**AN 301-70**) to the hexagon head bolts (X).
 - c. Secure the floor plate (B) with the hexagon head bolts (X).
 - d. Place the foot mat (T) in the footwell.



Item	Torque
Hexagon head bolt (X)	29.4 - 34.3 N · m

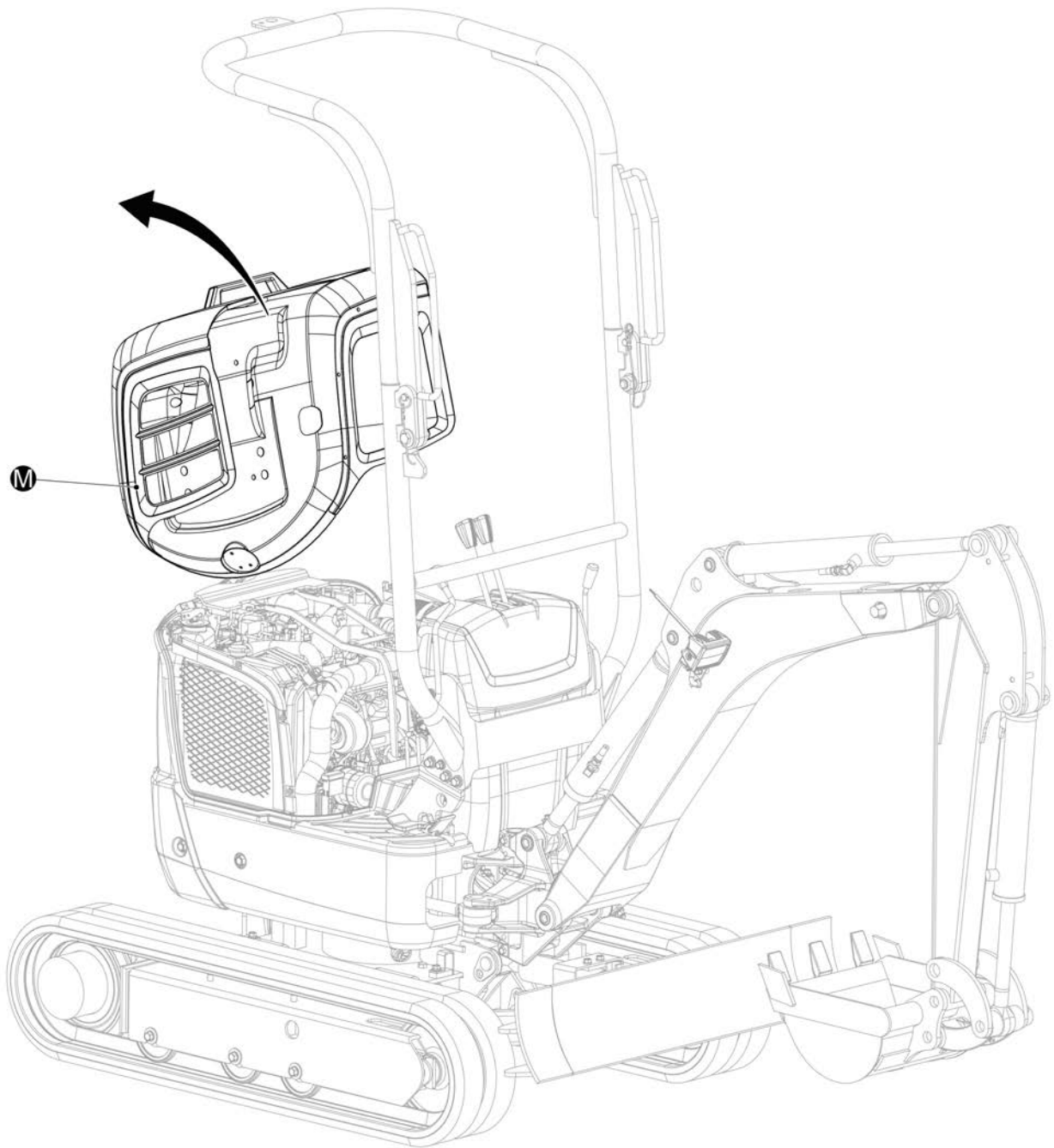
31. Close the bonnet (M).



9FSSP00029A01

U10-5 installation

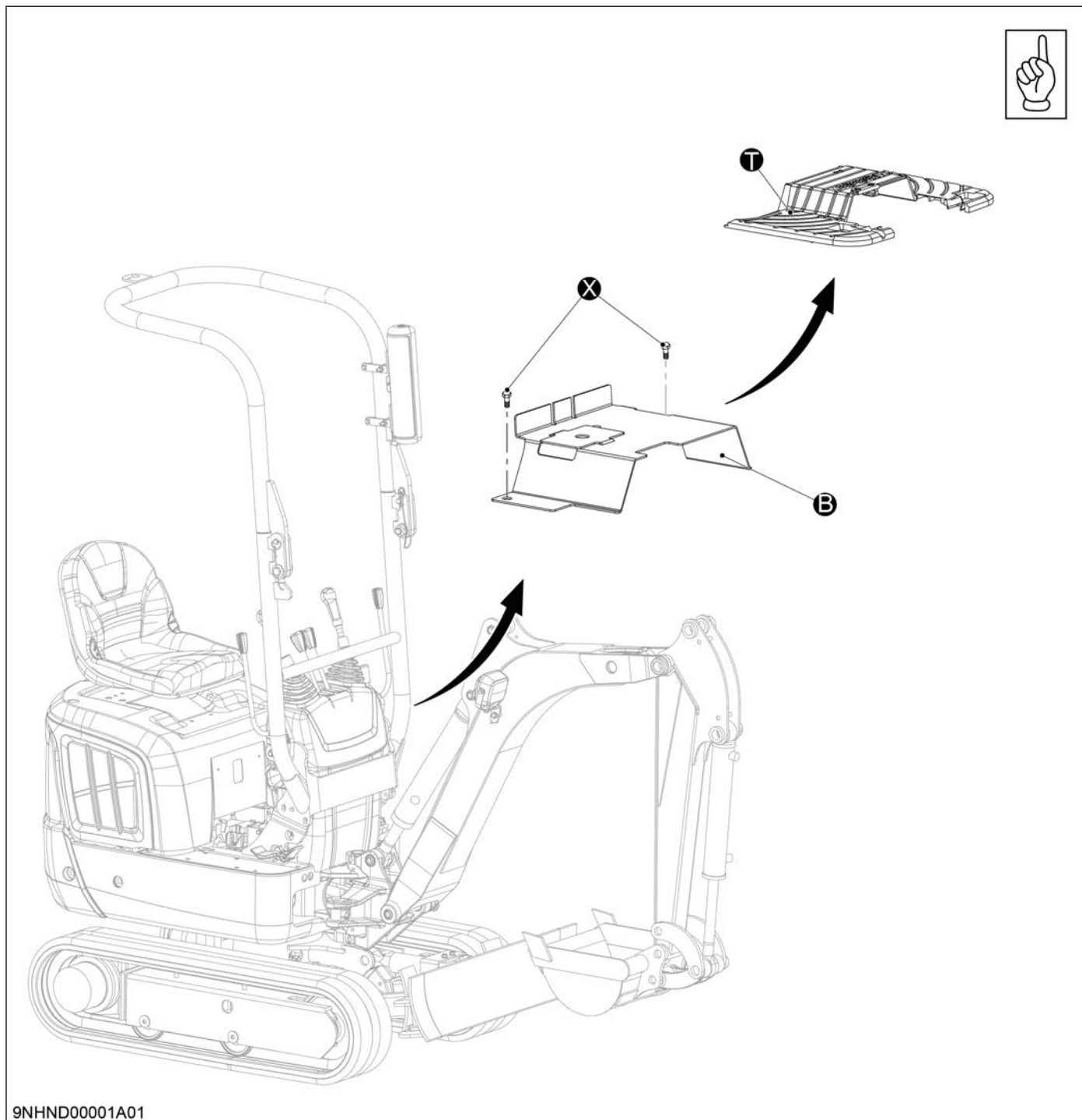
1. Unlock and open the bonnet (M).



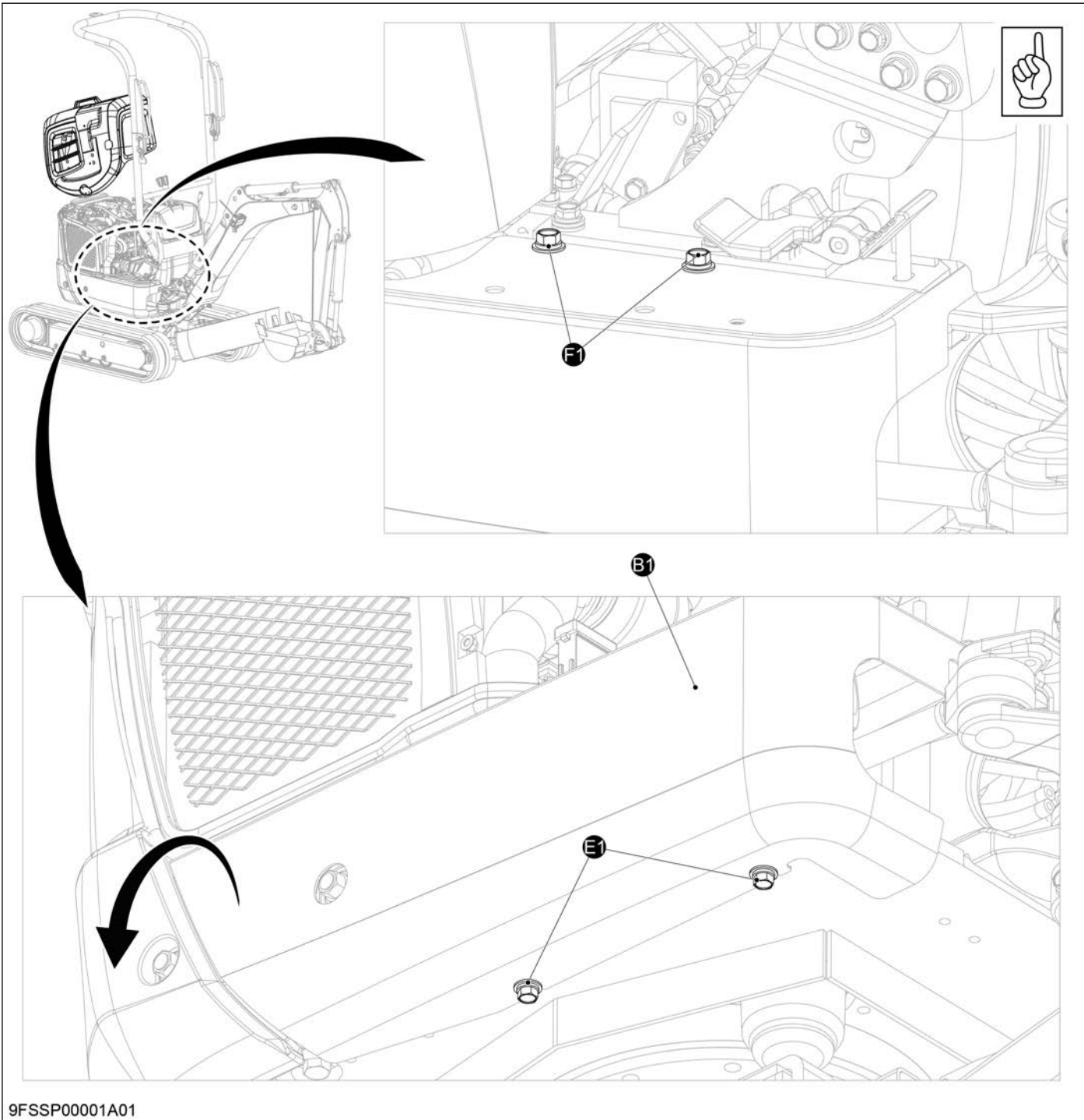
9FSSP00002A01

ASSEMBLY

2. Remove the foot mat and the floor plate:
 - a. Remove the foot mat (T) from the footwell.
 - b. Remove the hexagon head bolts (X) followed by the floor plate (B).

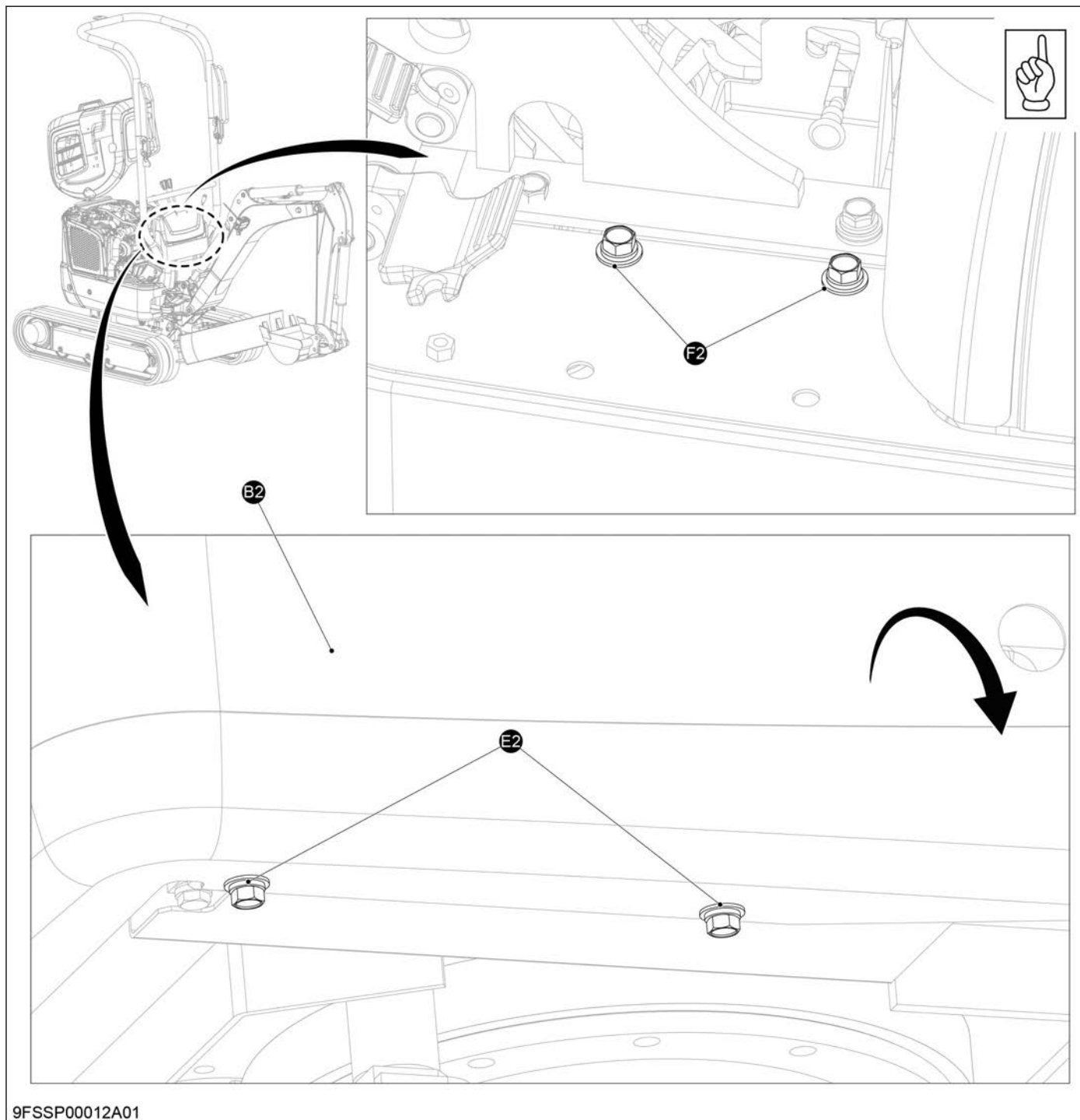


3. Remove the side cover (B1) on the right:
- Remove the hexagon head bolts (F1).
 - Undo the hexagon head bolts (E1) and then remove the side cover (B1).



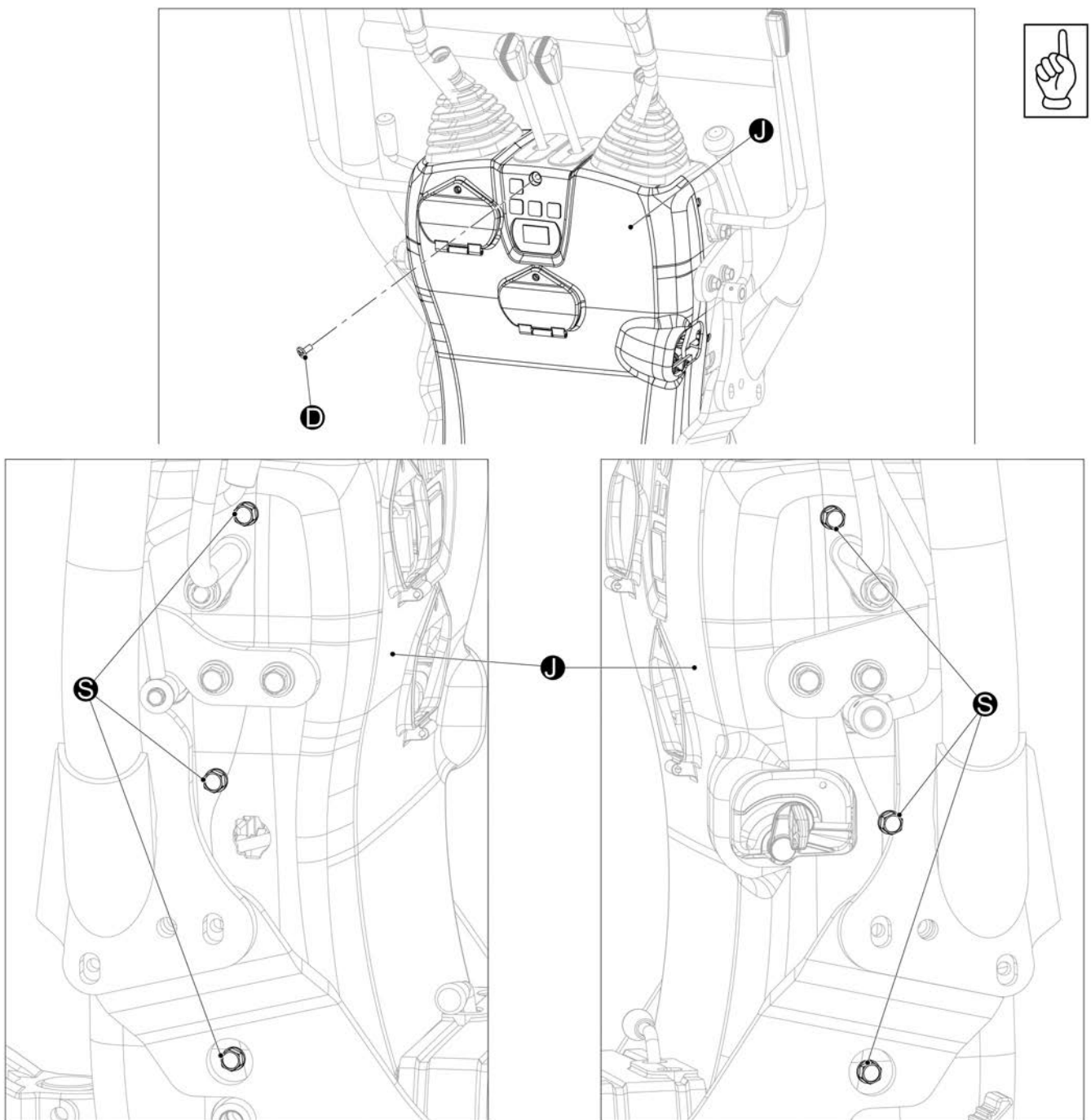
ASSEMBLY

4. Remove the side cover (B2) on the left:
- Remove the hexagon head bolts (F2).
 - Undo the hexagon head bolts (E2) and then remove the side cover (B2).



9FSSP00012A01

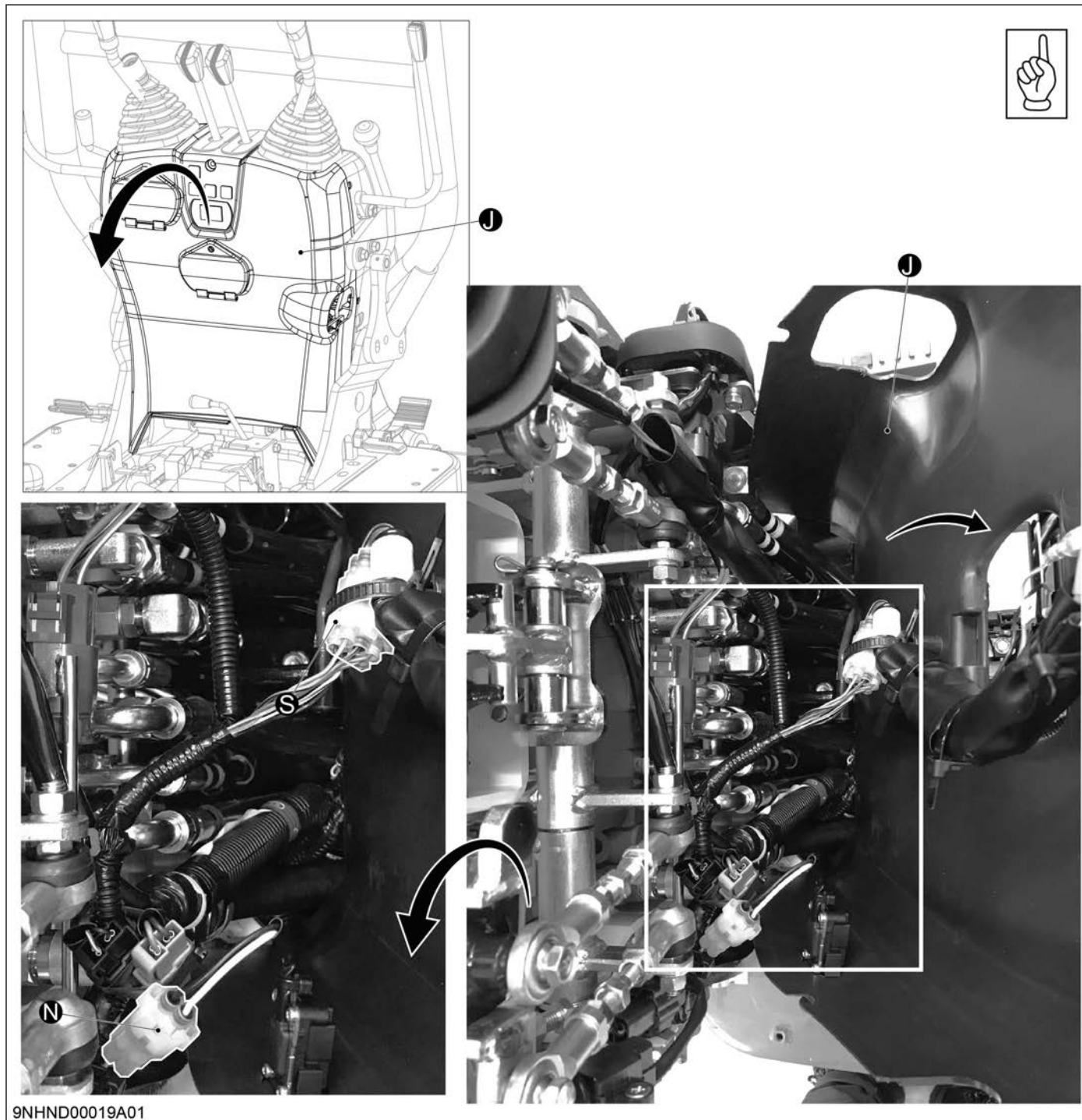
5. Remove the covering (J) from the control area:
- Undo the hexagon head bolts (S).
 - Remove the Philips screw (D).
 - Set the covering (J) down towards the seat.



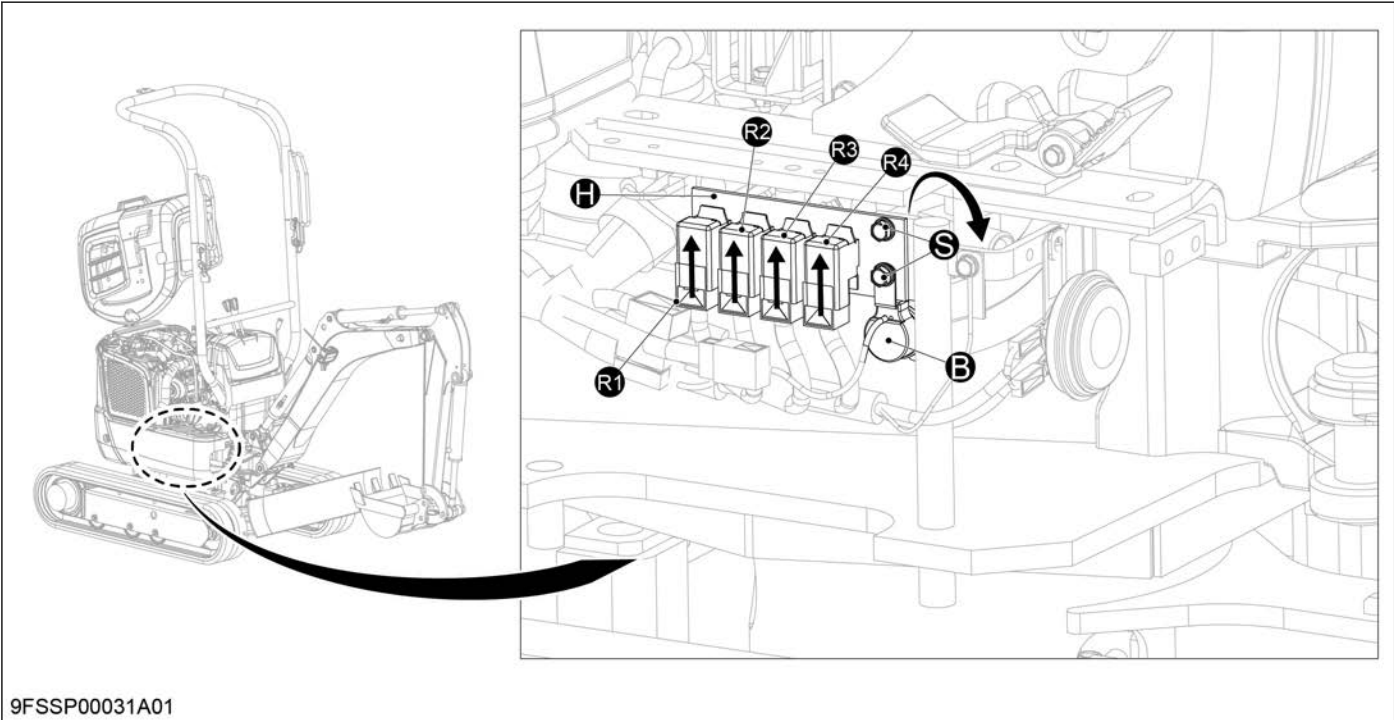
9NHND00002A02

ASSEMBLY

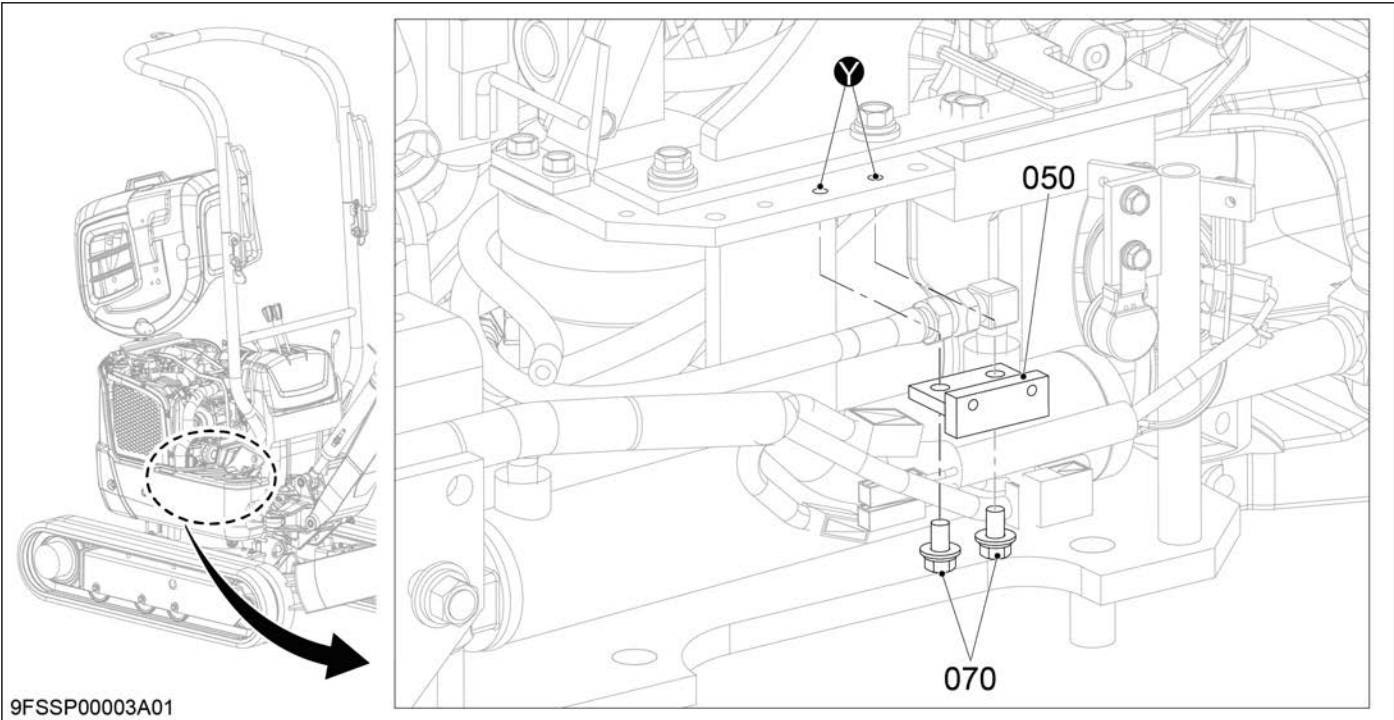
6. Disconnect the electrical wire:
 - a. Disconnect the connectors (S) and (N).
 - b. The covering (J) can now be fully removed.



7. Remove the relay holder (H):
- a. Remove the relays (R1), (R2), (R3) and (R4) upwards and set to the side.
 - b. Remove the hexagon head bolts (S) and set the buzzer (B) and the relay holder (H) to the side.



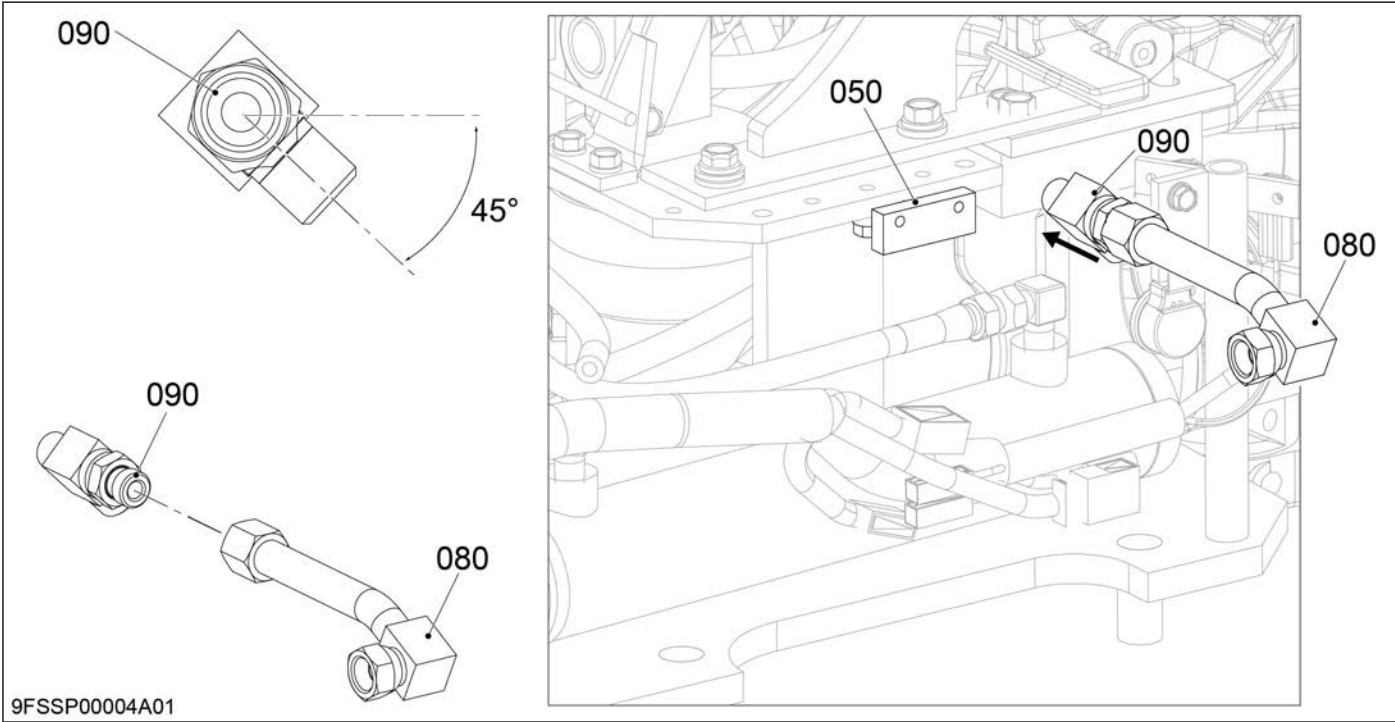
8. Fit the bracket (050) to the frame (Y) with the hexagon head bolts (070) from below.



Item	Torque
Hexagon head bolt (070)	23.5 - 27.5 N · m

ASSEMBLY

9. Fit the hydraulic pipe (080):
- a. Fit the hydraulic adapter (090) to the hydraulic pipe (080) at the specified angle of 45°.
 - b. Push the hydraulic pipe (080) to the right of the bracket (050) into the machine as shown.

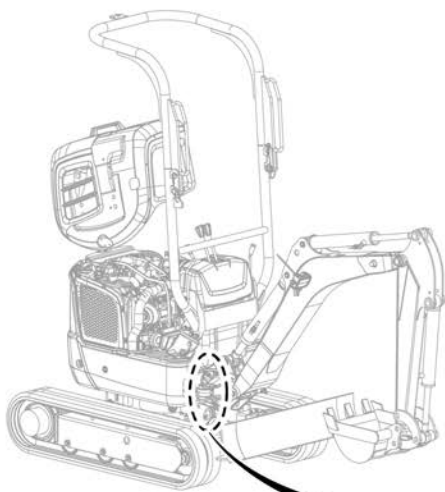


Item	Torque
Hydraulic tubing (080)	37.2 - 42.1 N · m

10. Undo the cable tie (E).

■ **NOTE**

To simplify the following step, the cable tie (E) in the tilt headstock area can be released.



9FSSP00047A01

ASSEMBLY

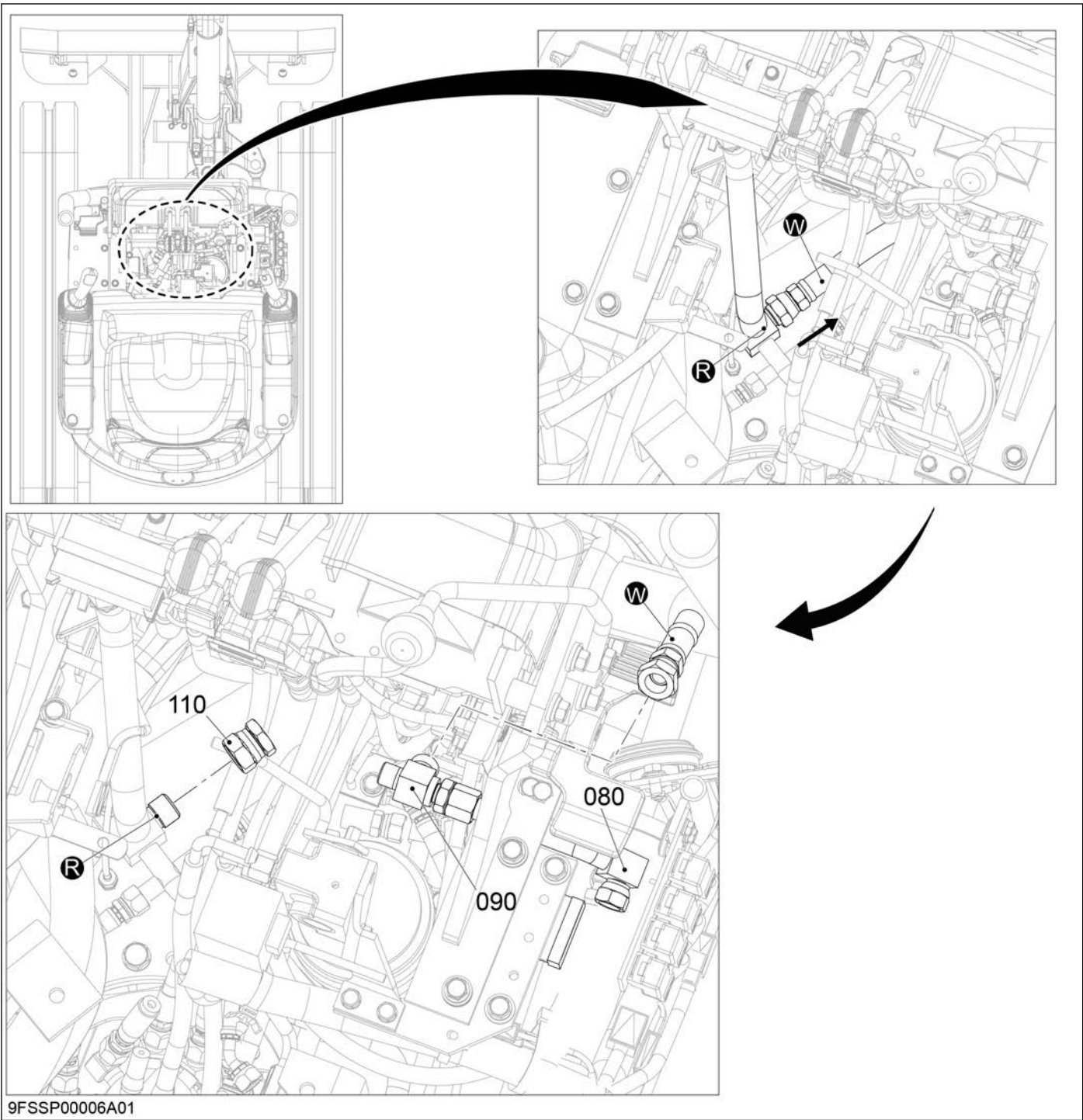
11. Fit the threaded plug (110):
 - a. Remove the hydraulic hose (W/yellow) from the hydraulic pipe (R).
 - b. Fit the threaded plug (110) to the hydraulic pipe (R).
 - c. Fit the hydraulic hose (W/yellow) to the hydraulic adapter (090).

■ NOTE

To make it easier to fit the hydraulic hose (W/yellow), you can release one of the cable ties in the boom area.

■ NOTE

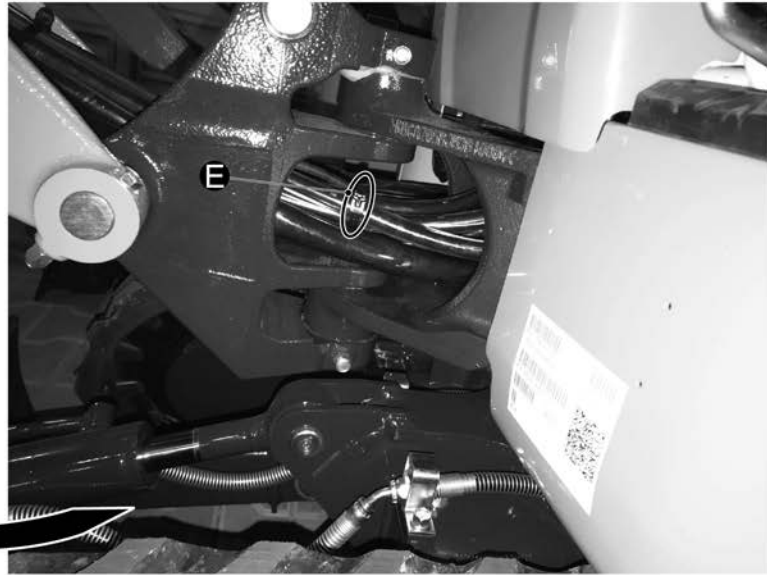
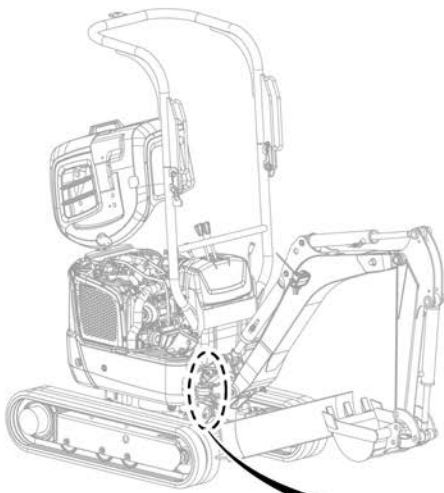
After fitting the hydraulic hose, the cable tie should be refitted in its original position.



Item	Torque
Threaded plug (110)	70 - 80 N · m
Hydraulic hose (W/yellow)	50 - 55 N · m

ASSEMBLY

12. Attach the cable tie (E) in its original position as shown.



9FSSP00047A01

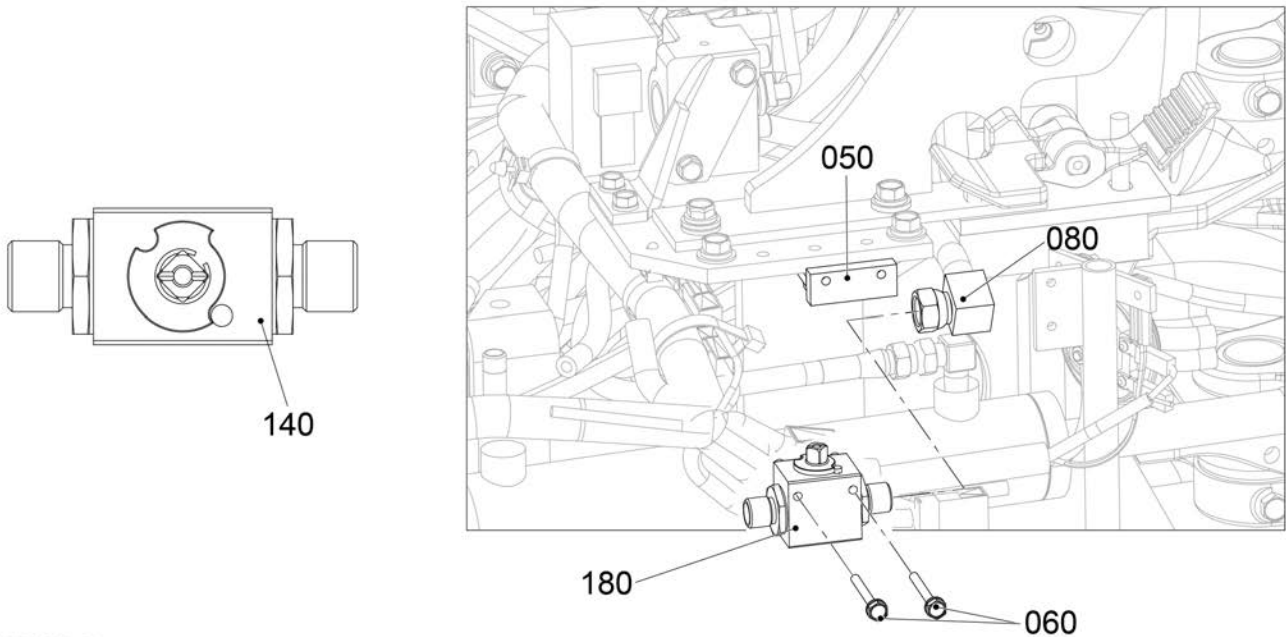
13. Prefit the ball valve (180):
- a. Fit the ball valve to the hydraulic pipe (080) hand-tight.
 - b. Fit the ball valve (180) to the bracket (050) with the hexagon head bolts (060).
 - c. Tighten the hydraulic pipe (080).

■ NOTE

Ensure that the hydraulic pipe (080) does not have any contact with sheet metal parts after tightening.

■ NOTE

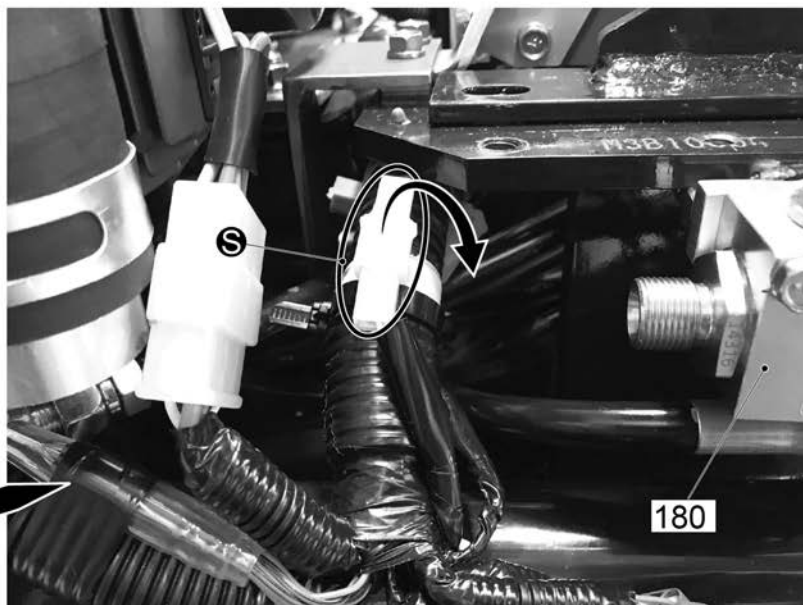
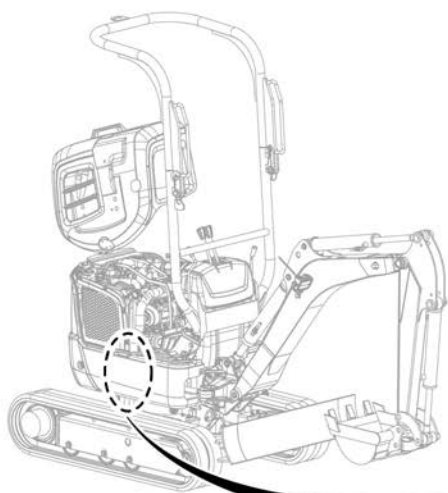
If the hydraulic pipe (080) has contact with sheet metal parts, the hexagon head bolts (060) need to be undone and the ball valve re-aligned.



9FSSP00036A01

Item	Torque
Hexagon head bolt (060)	9.8 - 11.3 N · m
Hydraulic tubing (080)	37.2 - 42.1 N · m

14. Align the lamp cable (S) on the main cable harness left of the ball valve (180):
- To be able to fit the hydraulic hose (100) in the next step, the connector (S) of the lamp cable must be moved 90° to the right as shown.



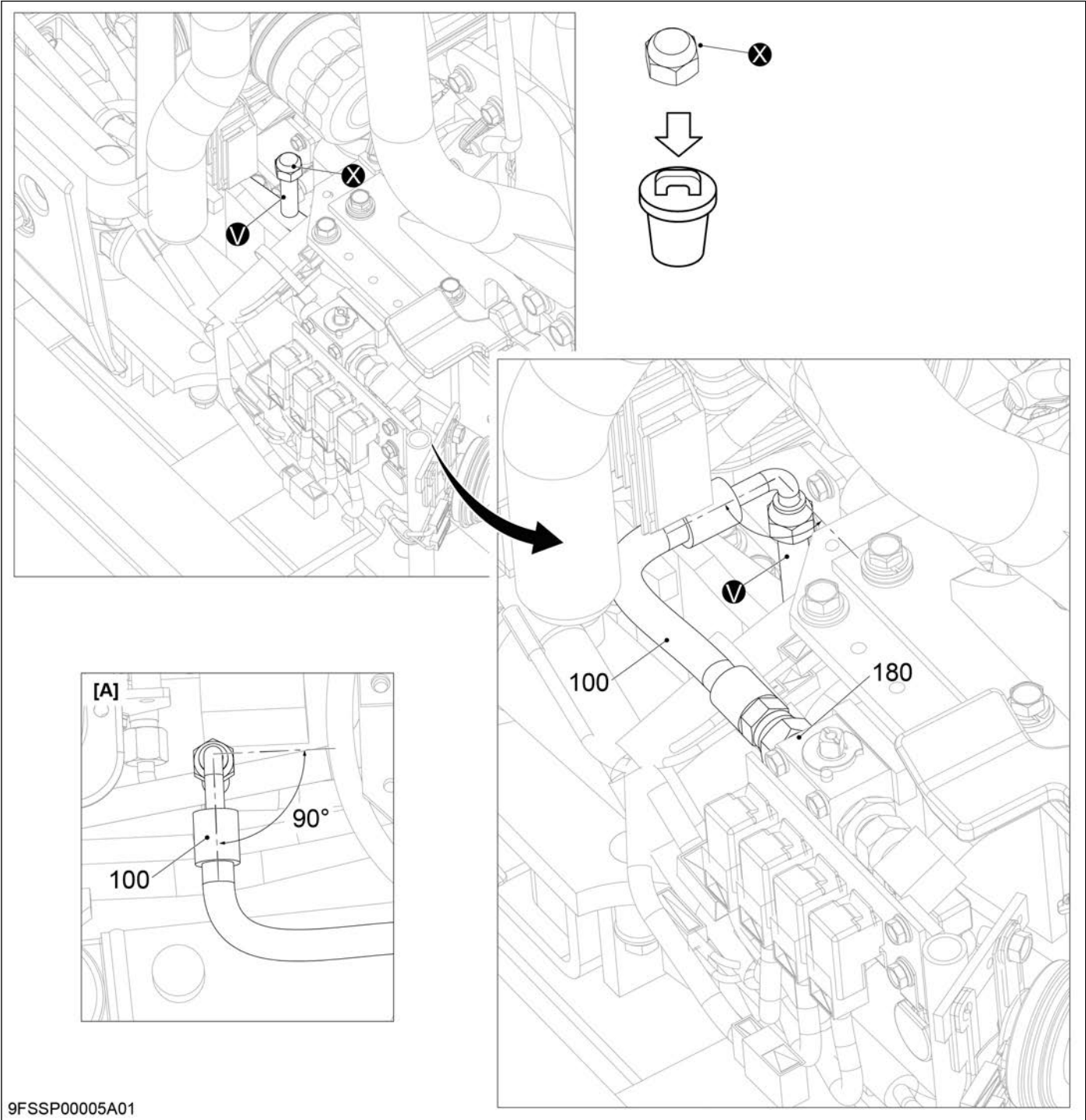
9FSSP00046A01

15. Fit the hydraulic hose (100):
- a. Remove the sealing plug (X) from the hydraulic pipe (V) and dispose of it.
 - b. Fit the hydraulic hose (100) with the 90° fitting to the hydraulic pipe (V).

■ NOTE

Ensure the 90° alignment as shown in detail [A].

- c. Fit the hydraulic hose (100) with the straight fitting to the ball valve (180).



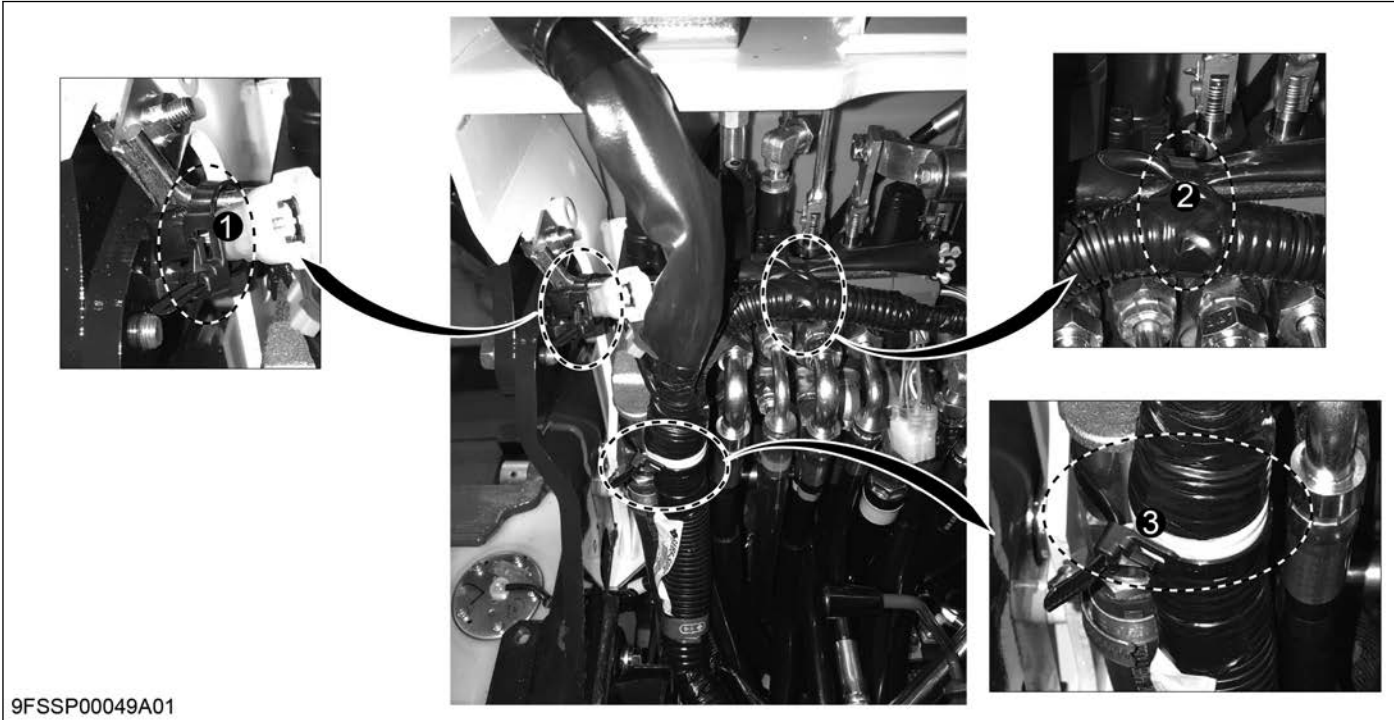
9FSSP00005A01

Pos	Torque
Hydraulic hose (100) to (180)	37.2 - 42.1 N · m

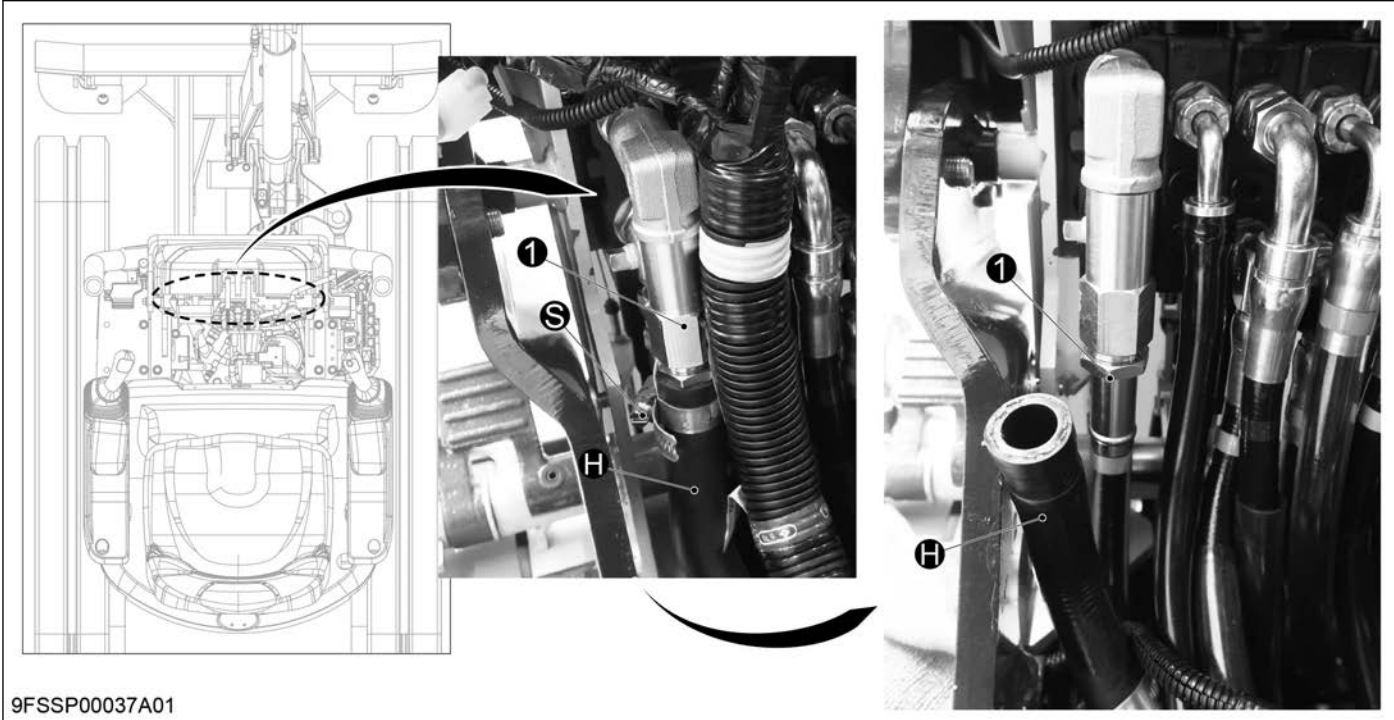
(Continued)

Pos	Torque
Hydraulic hose (100) to (V)	24.5 - 29.4 N · m

16. Remove the cable ties (1) to (3) as shown to simplify the next step.

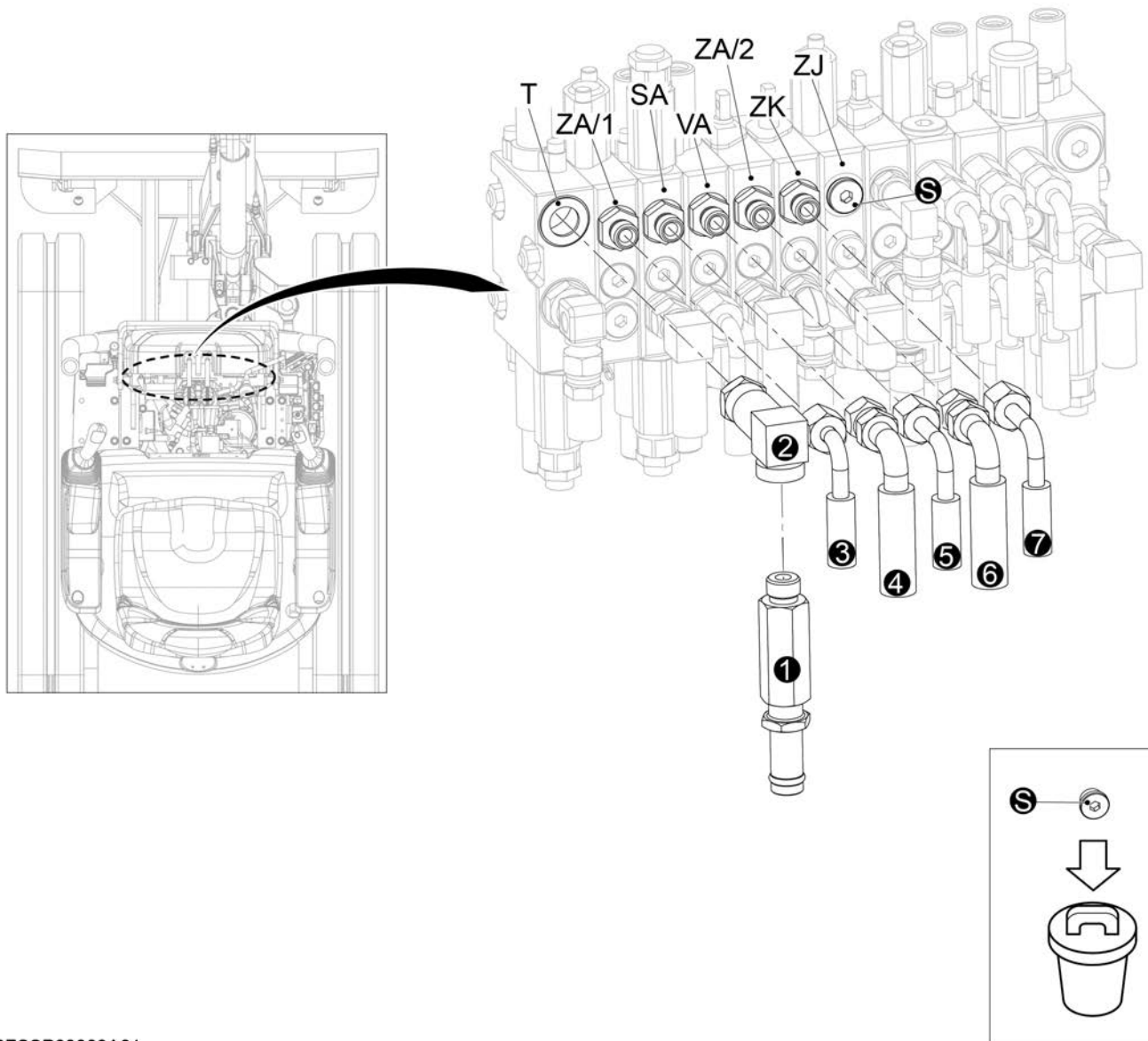


17. Remove the hydraulic hose (H).
- a. Undo the hose clamp (S) and push downwards.
 - b. Remove the hydraulic hose (H) from the hydraulic adapter (1) and set it to the side.



18. Remove the control valve:

- a. Remove the hydraulic adapters (1) and (2) from section (T) of the control valve.
- b. Remove the hydraulic hoses (3), (4/brown), (5/red), (6/green) and (7) from the control valve.
- c. Remove the threaded plug (S) and dispose of it.

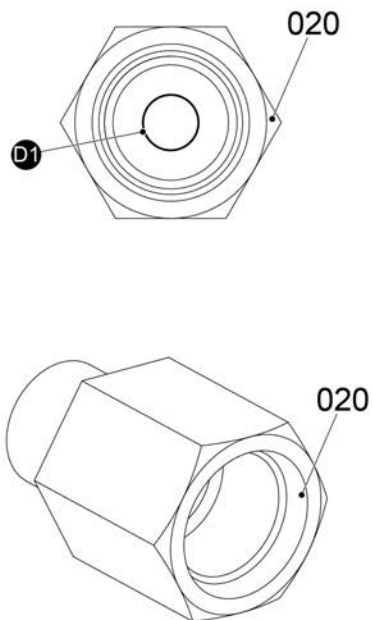


9FSSP00008A01

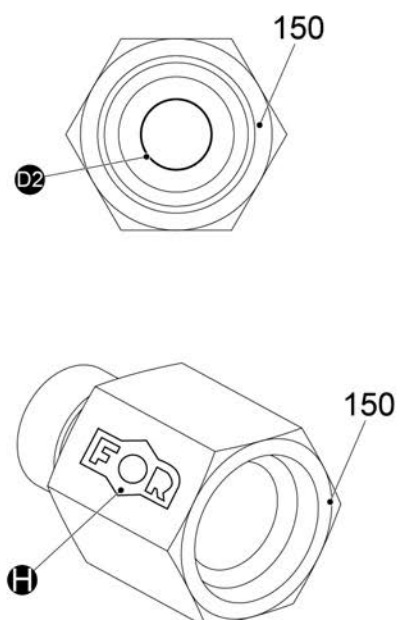
ASSEMBLY

19. Differences between hydraulic adapters (020) and (150):

- a. The hydraulic adapters (020) and (150) have an identical external appearance, but a different internal diameter (D1) and (D2).
- b. Hydraulic adapter (150) has a larger internal diameter (D2) and bears the emblem (H) of the supplier (FOR) on the hexagon.

[A]

9FSSP00044A01

[B]

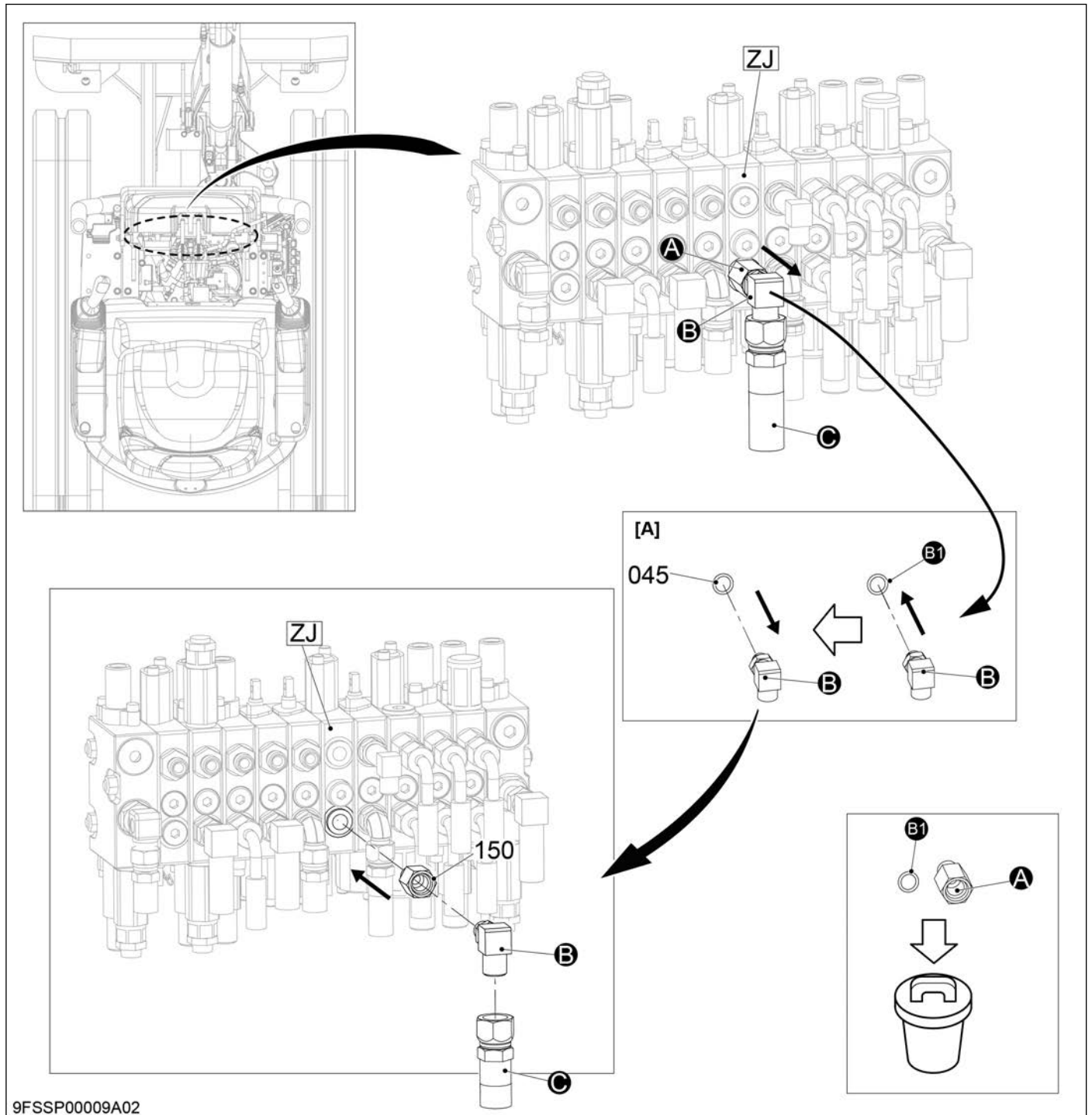
20. Remove the control valve:

- a. Remove the hydraulic hose (C/yellow) as well as the hydraulic adapters (B) and (A) from section (ZJ) of the control valve.

■ **NOTE**

Remove the sealing ring (B1) from the hydraulic adapter (B) and replace with a new sealing ring (045).

- b. Dispose of the sealing ring (B1) and the hydraulic adapter (A).
- c. Fit the hydraulic adapter (150) to section (ZJ) as shown.
- d. Fit the hydraulic adapter (B) with the new sealing ring (045) to the hydraulic adapter (150).
- e. Fit the hydraulic hose (C/yellow) to the hydraulic adapter (B).



ASSEMBLY

Pos	Torque
Hydraulic hose (C/yellow)	37.2 - 42.1 N · m
Hydraulic adapter (B)	37.2 - 42.1 N · m
Hydraulic adapter (150)	37.2 - 42.1 N · m

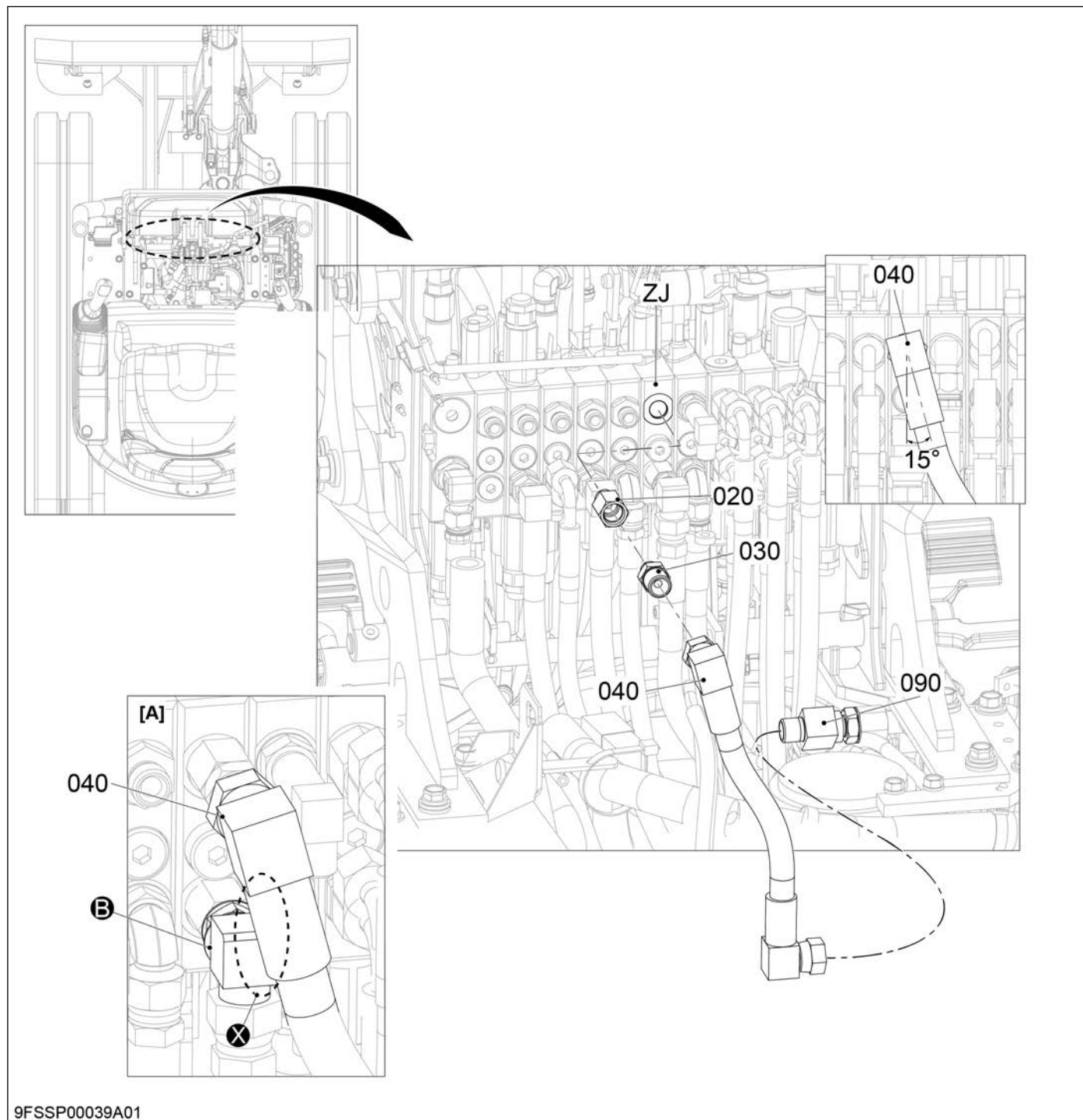
21. Fit the hydraulic hose (040):

- a. Fit the hydraulic adapters (020) and (030) to section (ZJ) of the control valve
- b. Fit the hydraulic hose (040) to the hydraulic adapter (030) at the specified angle of 15°.

NOTE

Ensure that the hydraulic hose (040) does not have contact with the hydraulic adapter (B) in area (X) (detail A).

- c. Fit the hydraulic hose (040) to the hydraulic adapter (090).



ASSEMBLY

Item	Torque
Hydraulic hose (040)	37.2 - 42.1 N · m
Hydraulic adapter (020)	24.5 - 29.4 N · m
Hydraulic adapter (030)	24.5 - 29.4 N · m

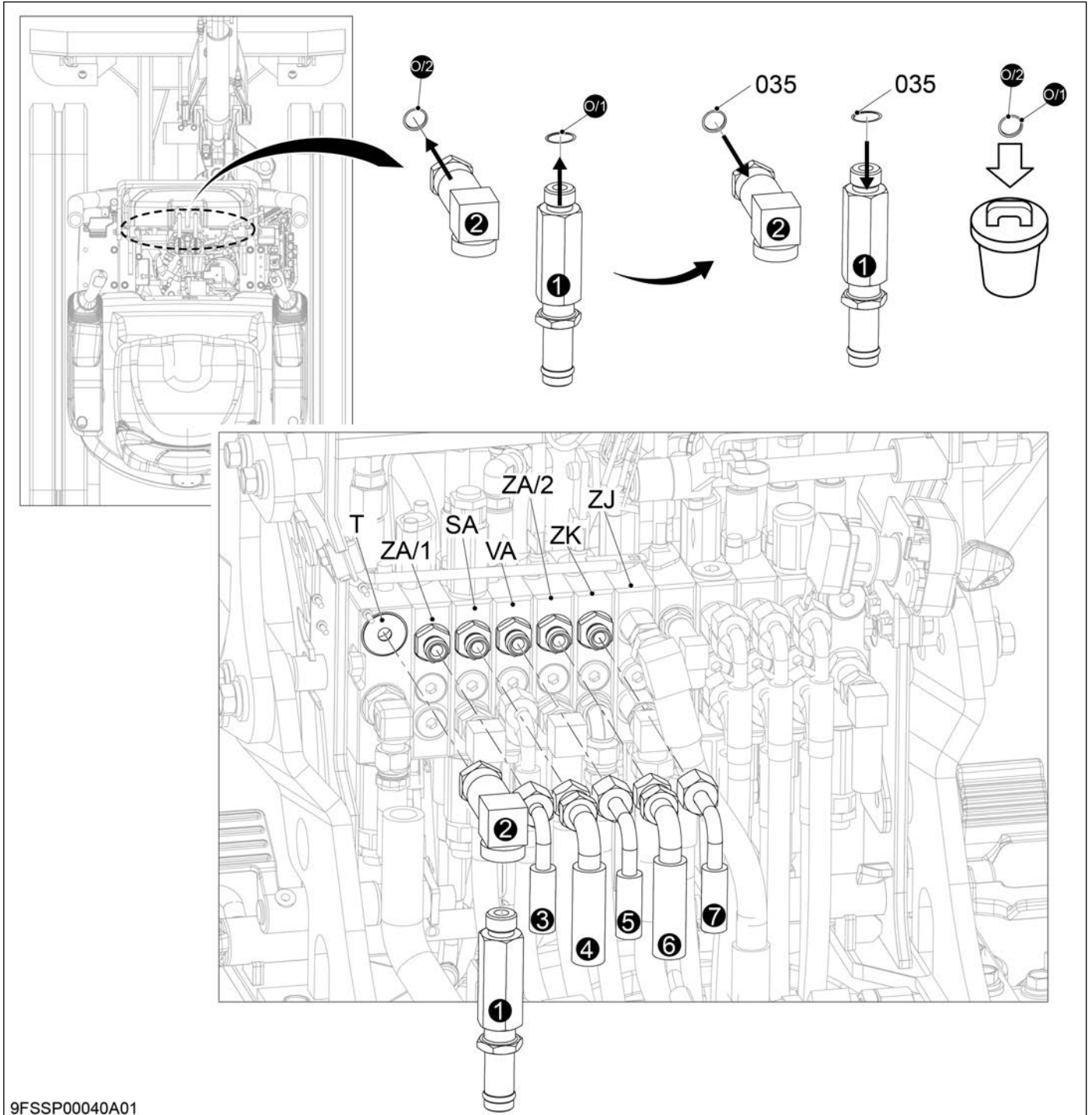
22. Assembly on the check valve:

- a. Fit the hydraulic hoses in their original position on the control valve as follows (7), (6/green), (5/red), (4/brown), (3).
- b. Remove the sealing rings (O/1) and (O/2) from the hydraulic adapters (1) and (2) and dispose of them.

■ **NOTE**

The sealing rings (O/1) and (O/2) on the hydraulic adapters (1) and (2) should be replaced with new sealing rings (035).

- c. Fit the hydraulic adapters (2) and (1) to the tank connection of section (T).

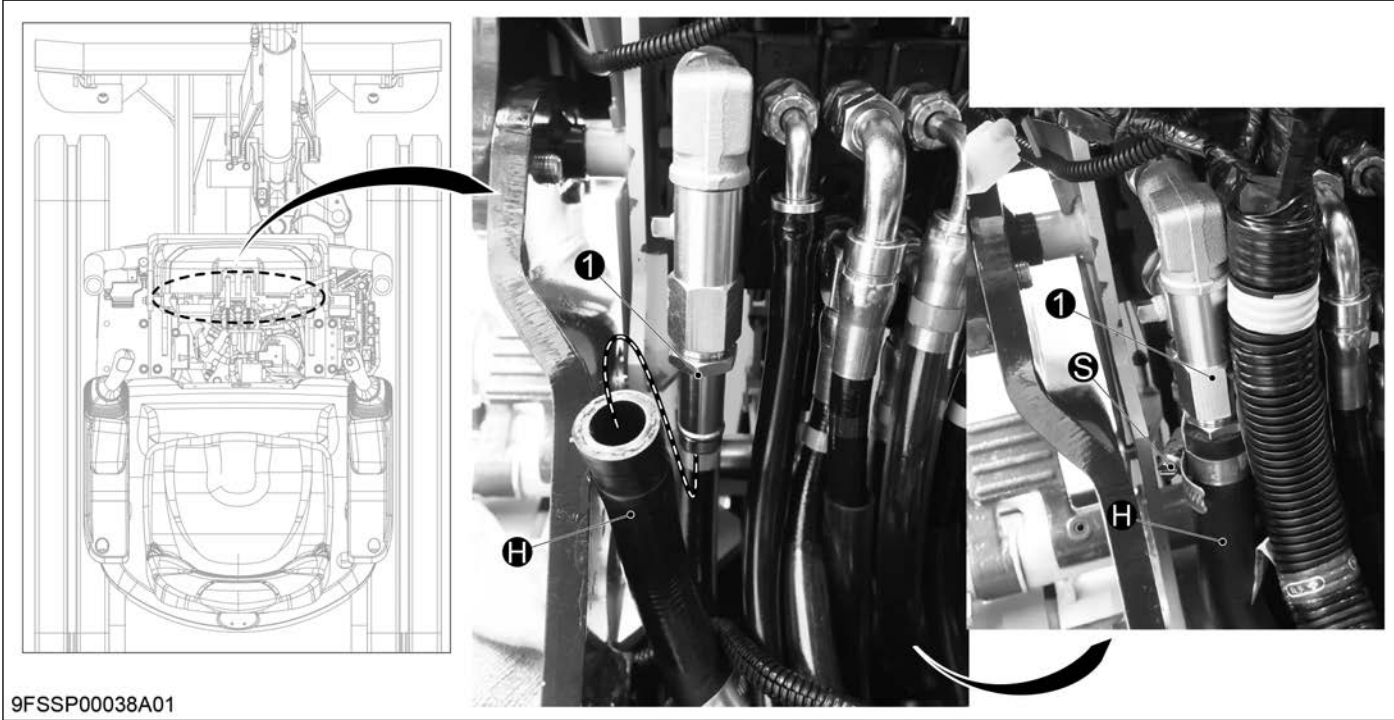


9FSSP00040A01

ASSEMBLY

Item	Torque
Hydraulic hose (3) - (4)	37.2 - 42.1 N · m
Hydraulic adapter (2)	26.3 - 44.1 N · m
Hydraulic adapter (1)	26.3 - 44.1 N · m

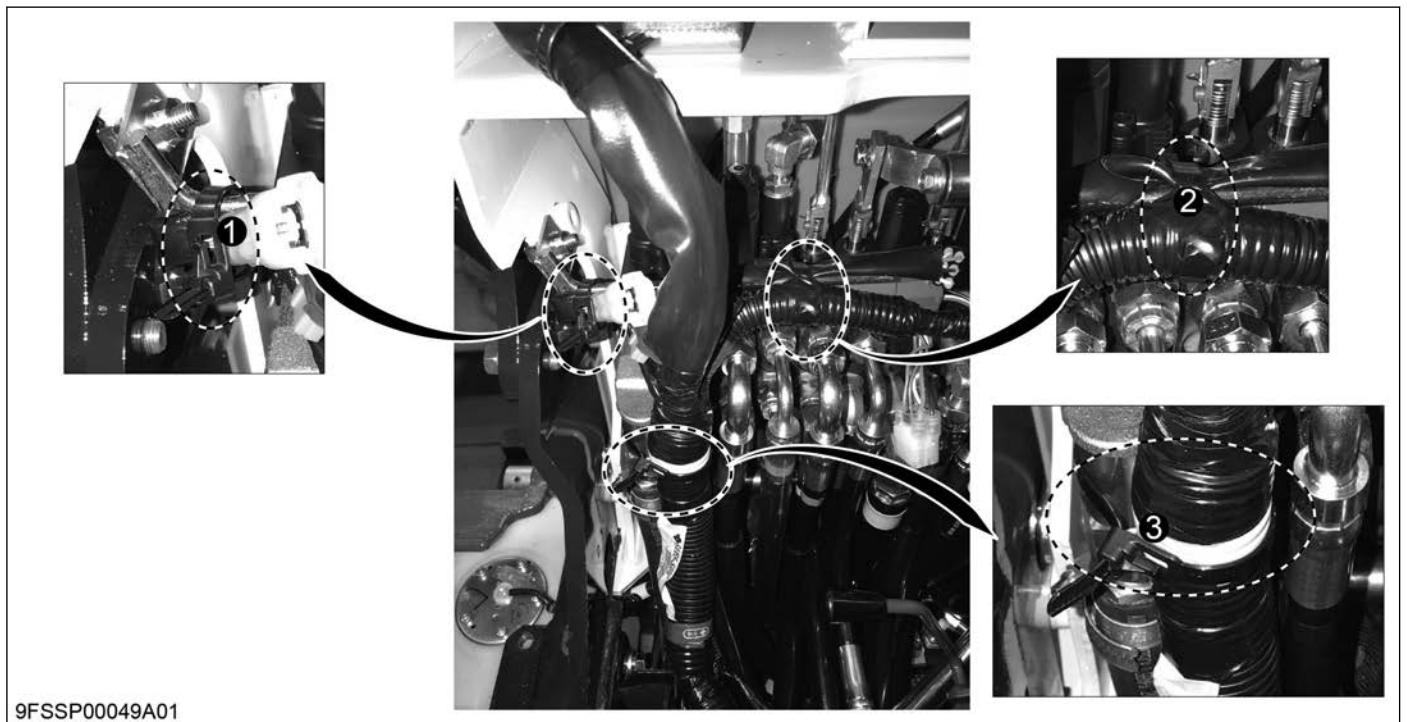
23. Fit the hydraulic hose (H):
- a. Fit the hydraulic hose (H) to the hydraulic adapter (1) as shown.
 - b. Push the hose clamp (S) upwards and secure the hydraulic hose (H).



9FSSP00038A01

Item	Torque
Hose clamp (S)	4 N · m

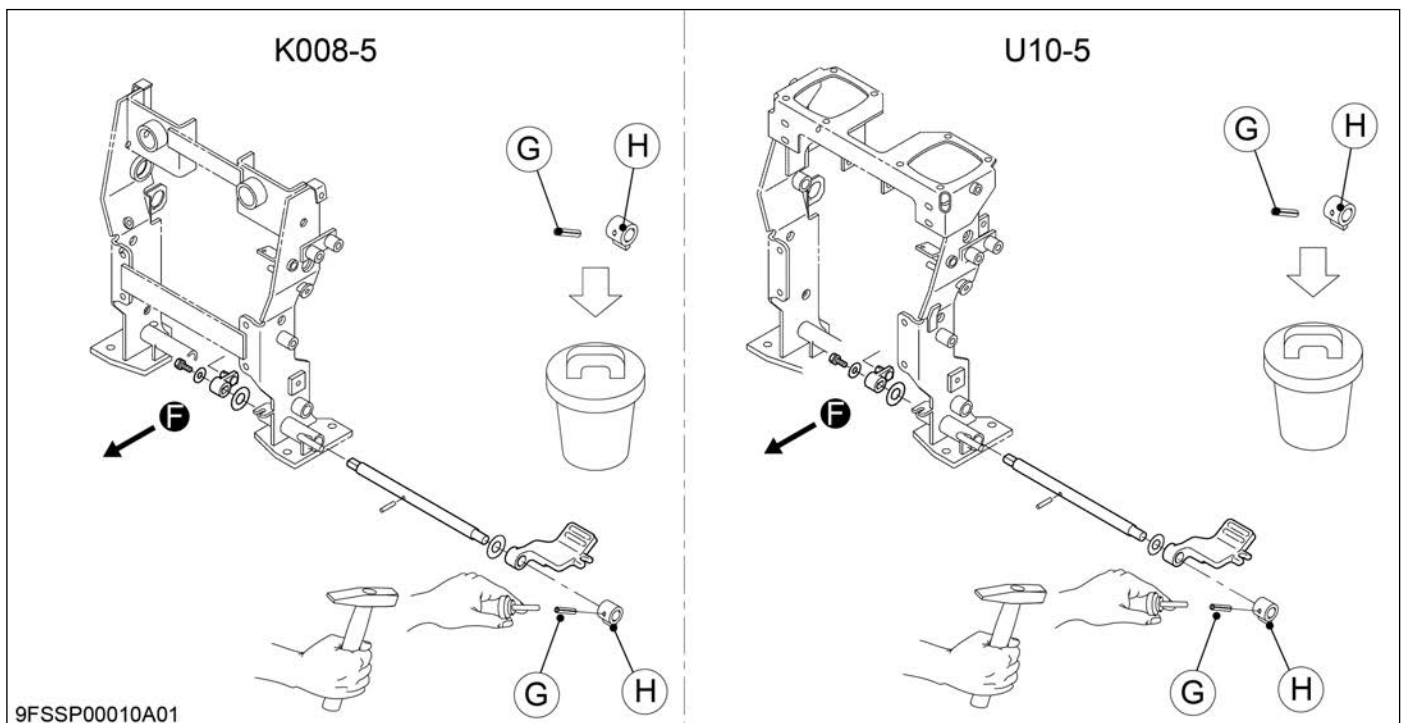
24. Fit the cable ties (1) to (3) in their original position as shown.



25. Remove the clamping sleeve (G) from the left pedal, remove the sleeve (H) and dispose of both parts.

■ **NOTE**

(F) indicates the direction of travel.

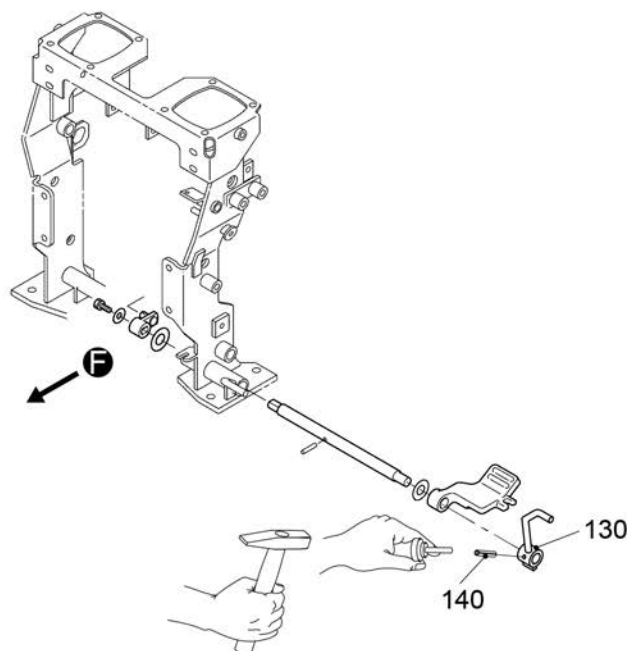


ASSEMBLY

26. Fit the bracket (130) with clamping sleeve (140) to the left pedal as shown.

NOTE

(F) indicates the direction of travel.



9FSSP00030A01

27. Fit the covering (J) in the control area:
- Roughly place the covering (J) in its original position.
 - Connect connectors (S) and (N) together.

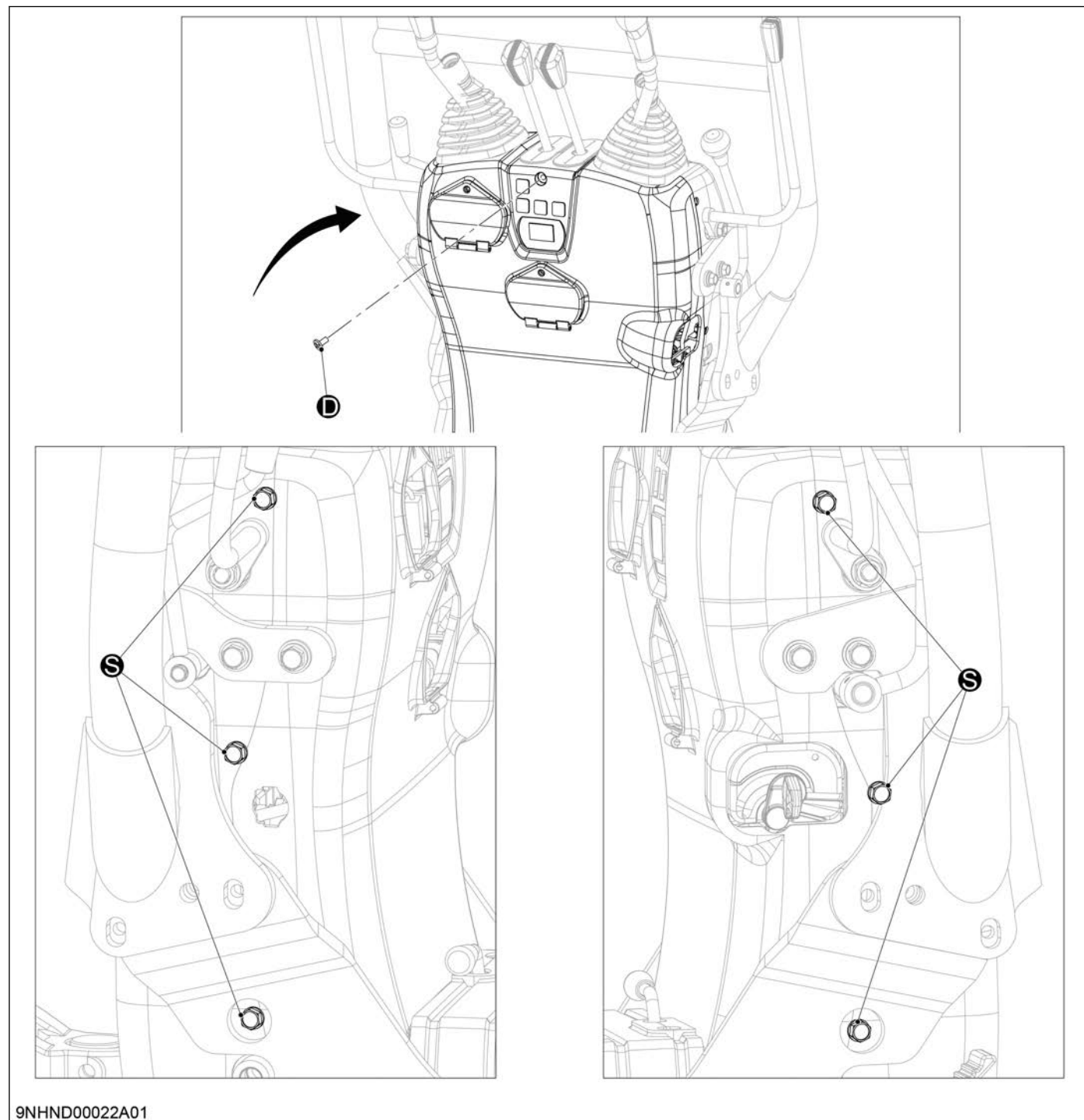


ASSEMBLY**28. Fit the covering (J):**

- a. Place the covering (J) in its original position.
- b. Fit the Philips screw (D).
- c. Tighten the hexagon head bolts (S).

NOTE

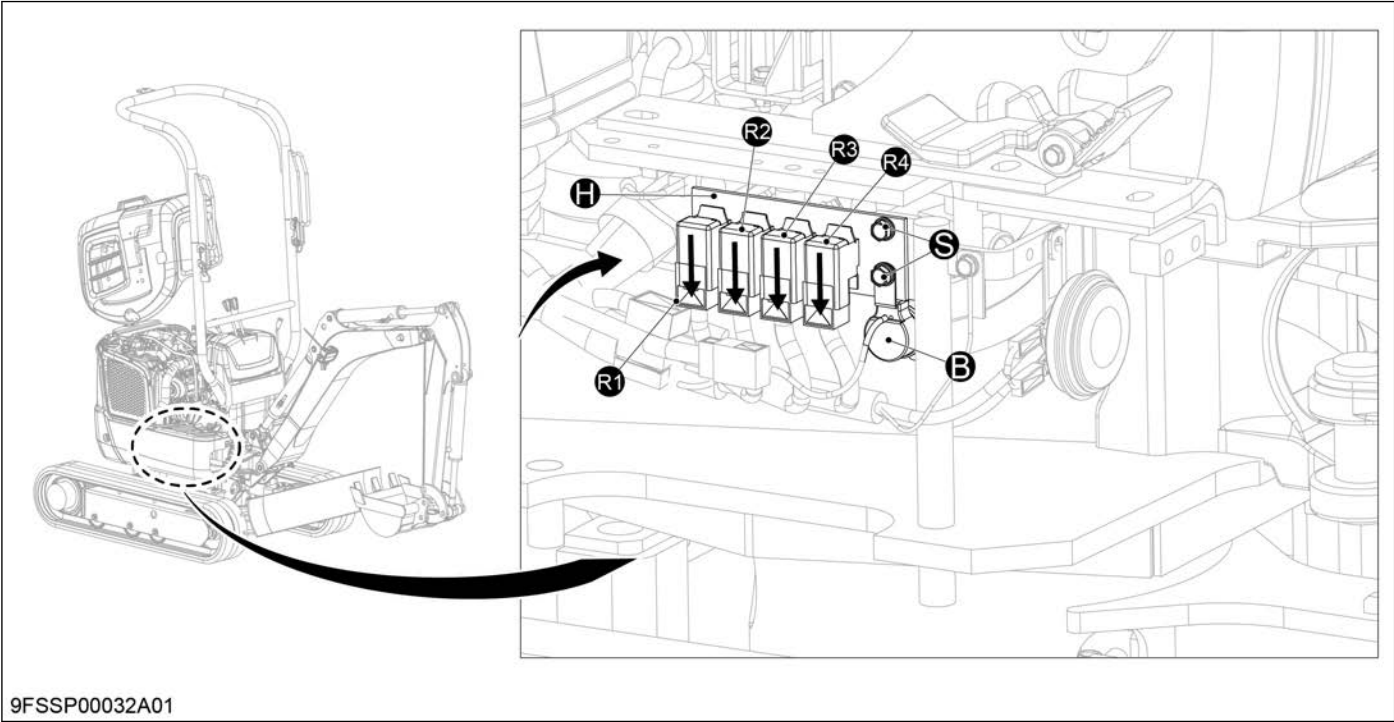
When aligning the covering (J), ensure an even gap of max. 2 mm to the front covering.



9NHND00022A01

Pos	Torque
Hexagon head bolt (S)	10 - 12 N · m

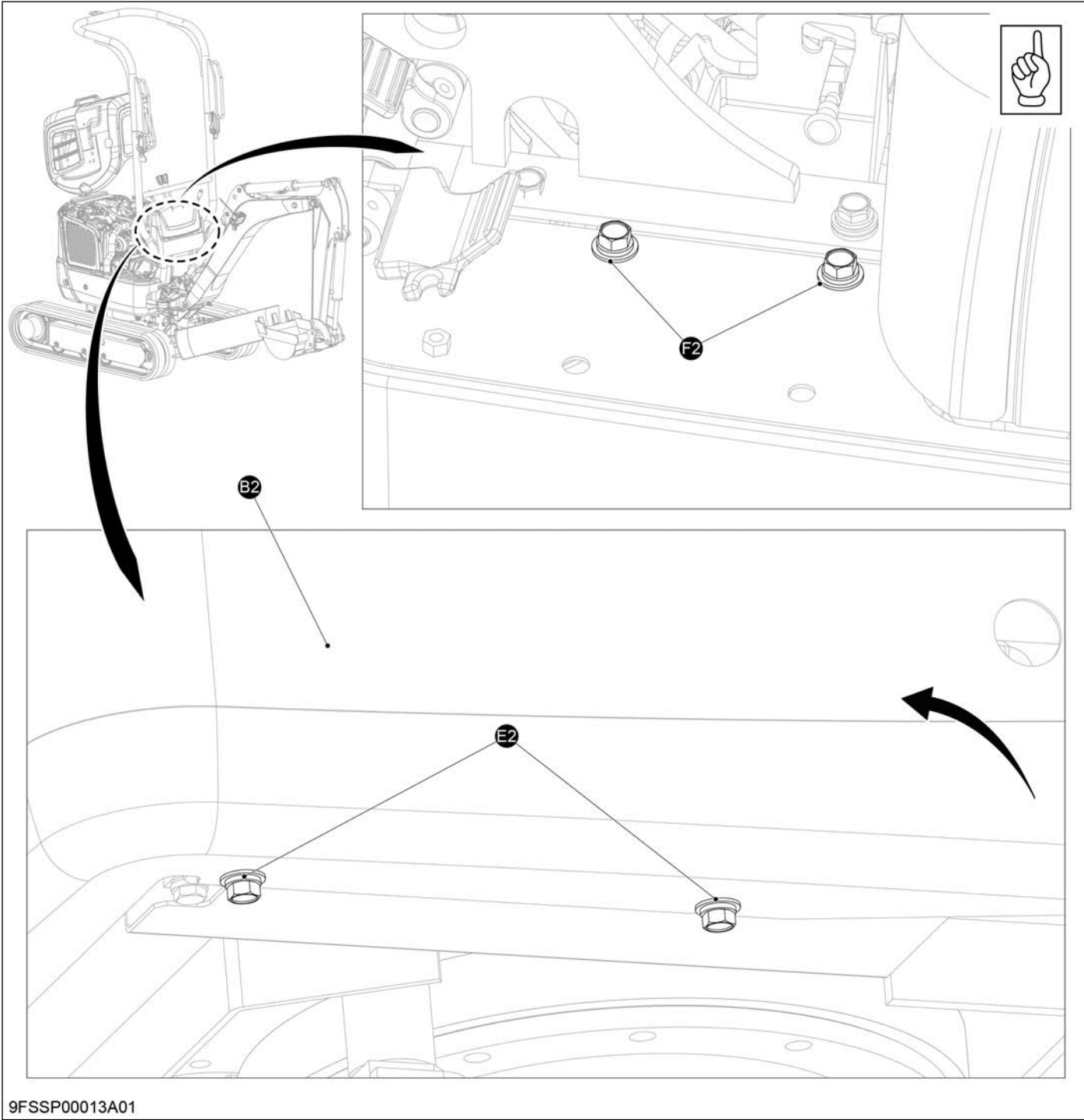
29. Fit the relay holder (H):
- a. Fit the relay holder (H) and the buzzer (B) with the hexagon head bolts (S).
 - b. Push the relays (R1), (R2), (R3) and (R4) onto the relay holder (H) from above as shown.



Pos	Torque
Hexagon head bolt (S)	9.8 - 11.3 N · m

ASSEMBLY

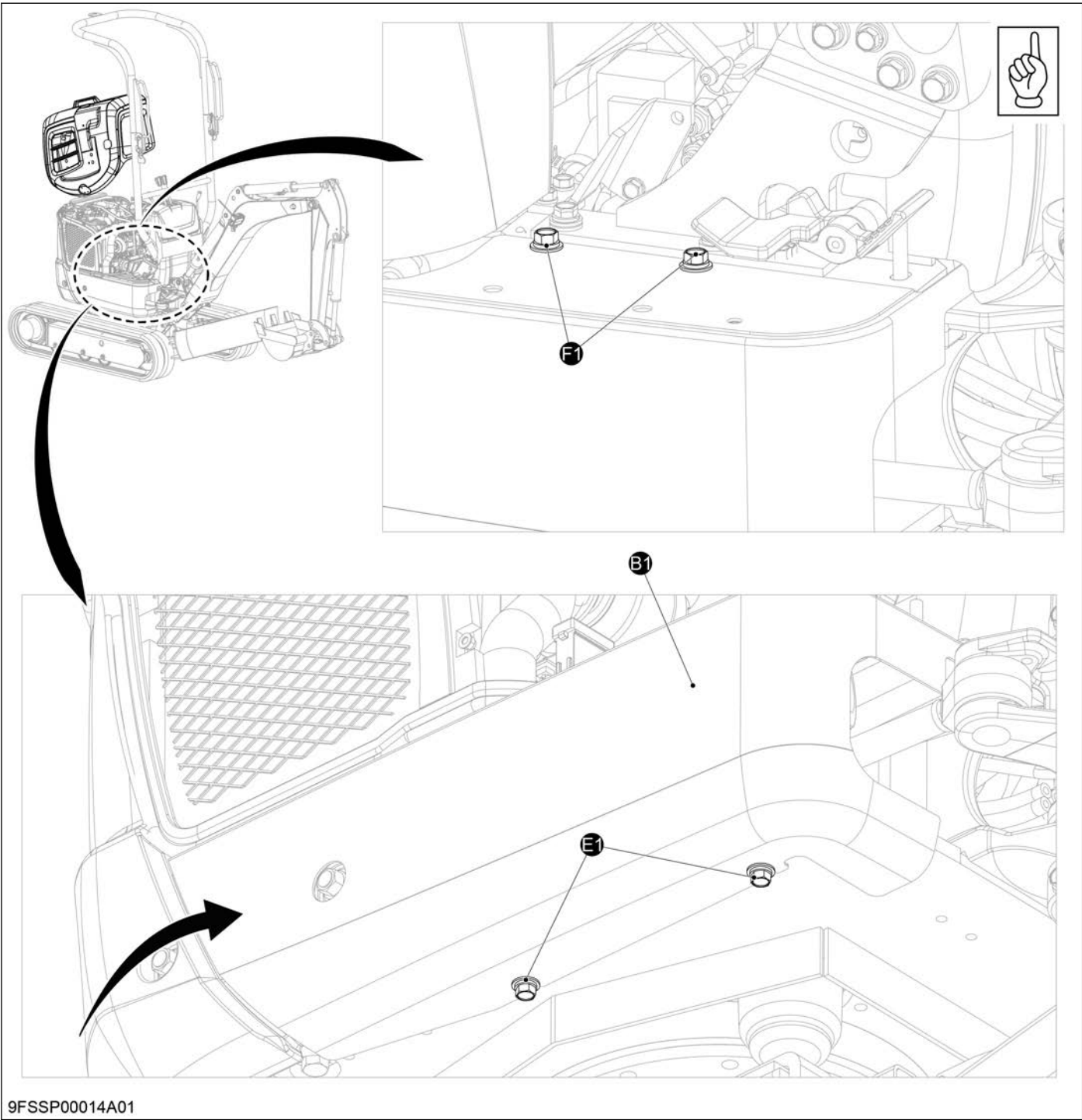
30. Fit the side cover (B2) on the left:
- a. Position the side cover (B2) and secure with the hexagon head bolts (F2).
 - b. Tighten the hexagon head bolts (E2).



9FSSP00013A01

Item	Torque
Hexagon head bolt (F2)	48.1 - 55.9 N · m
Hexagon head bolt (E2)	48.1 - 55.9 N · m

31. Fit the side cover (B1) on the right:
- a. Position the side cover (B1) and secure with the hexagon head bolts (F1).
 - b. Tighten the hexagon head bolts (E1).



Item	Torque
Hexagon head bolt (F1)	48.1 - 55.9 N · m
Hexagon head bolt (E1)	48.1 - 55.9 N · m

ASSEMBLY

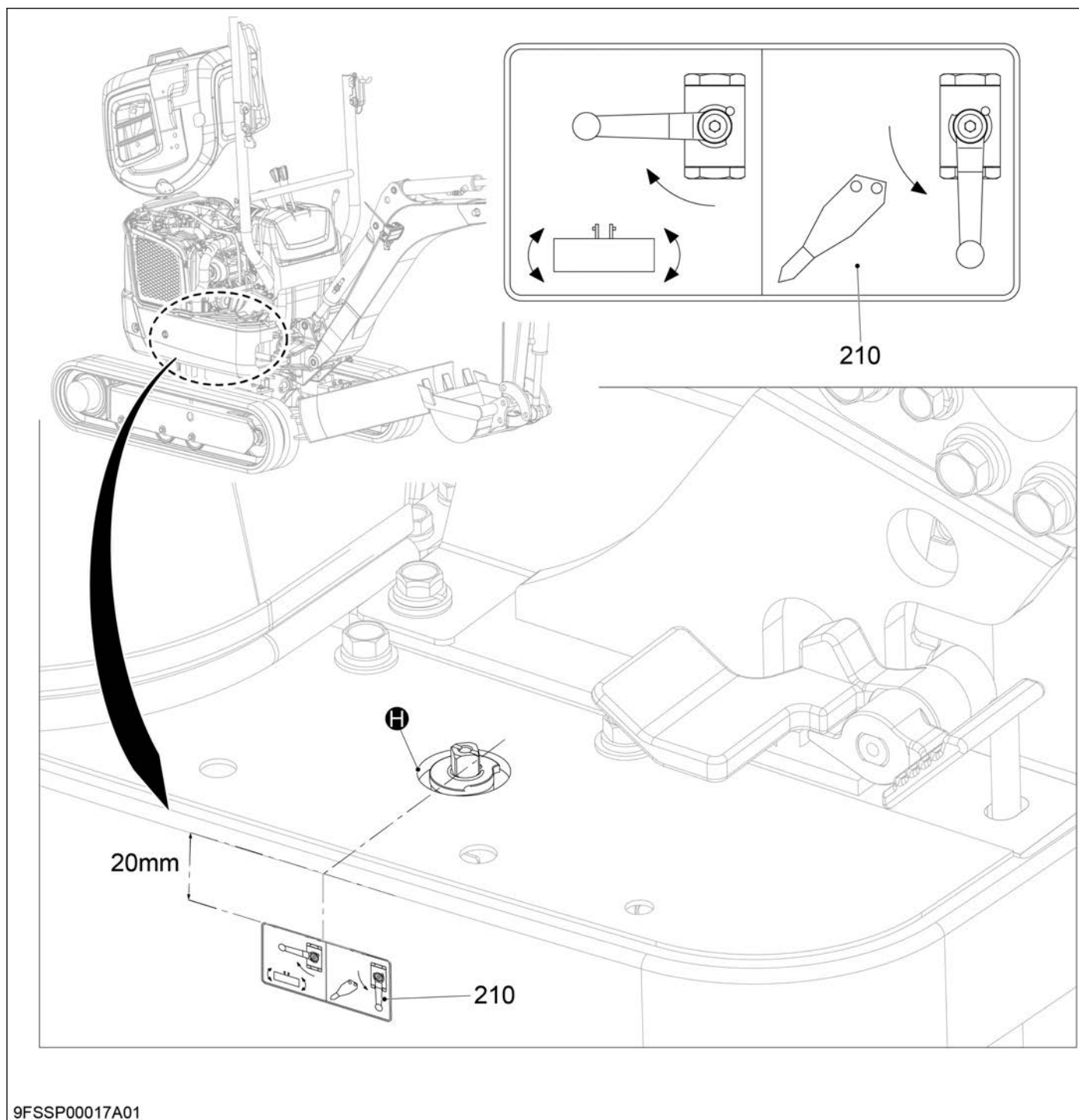
32. Affix the sticker (210) to the right covering as shown:

■ NOTE

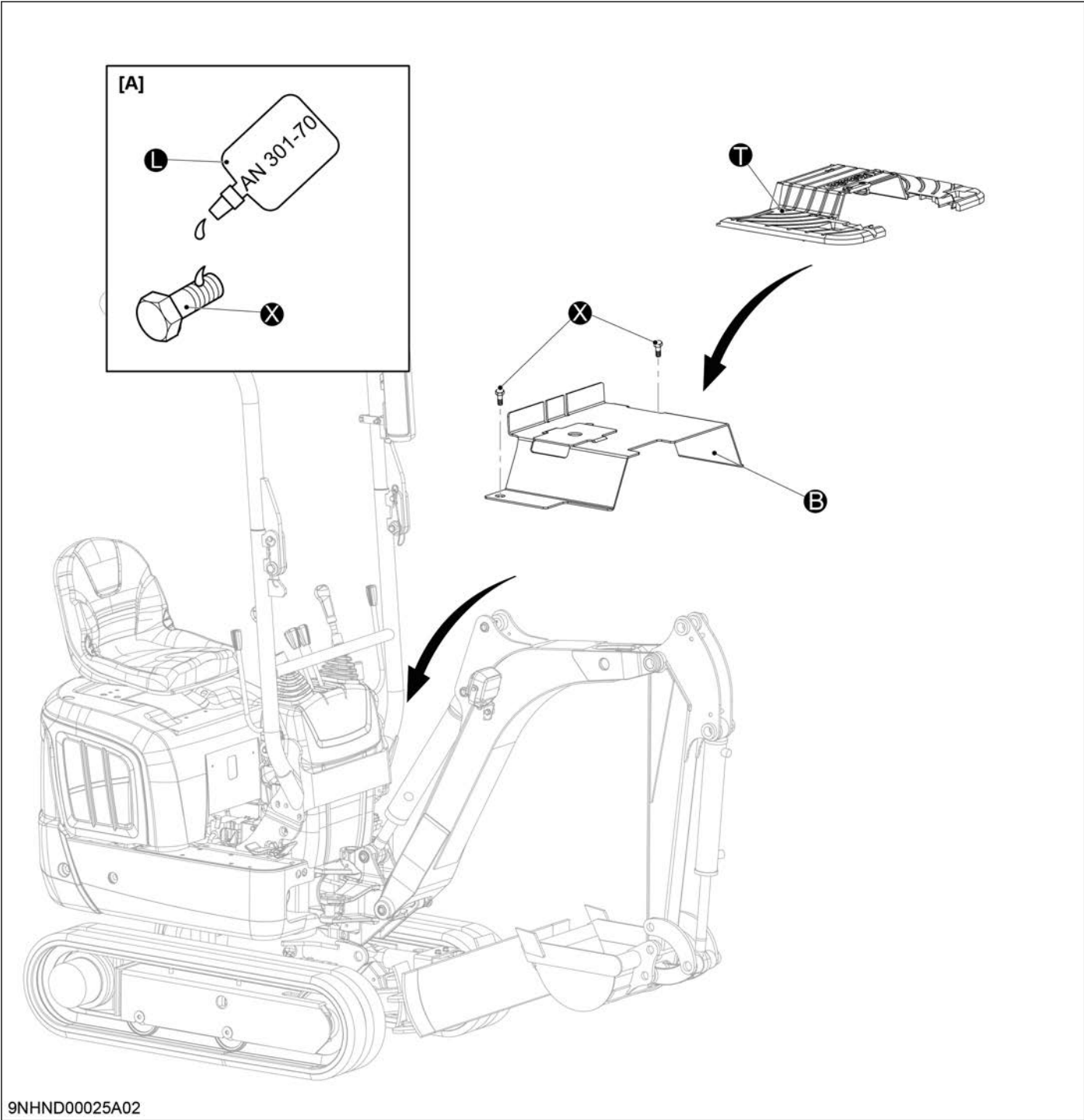
The spacing between the sticker and the top of the covering should be 20 mm.

■ NOTE

Align the sticker centrally to the hole (H).



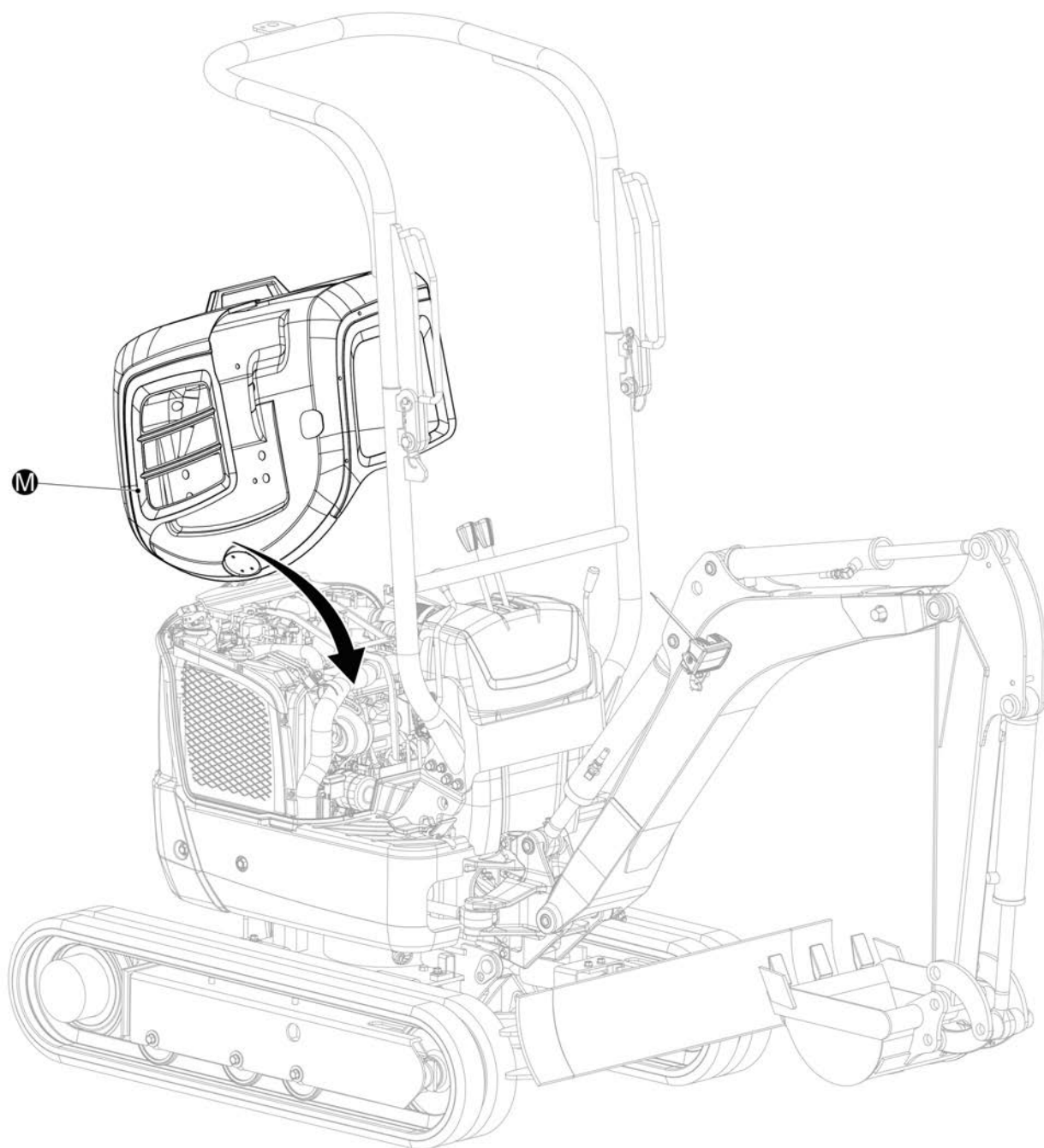
33. Fit the floor plate (B):
- a. Place the floor plate (B) in its original position.
 - b. As shown in detail [A], apply screw lock (**AN 301-70**) to the hexagon head bolts (X).
 - c. Secure the floor plate (B) with the hexagon head bolts (X).
 - d. Place the foot mat (T) in the footwell.



9NHND00025A02

Item	Torque
Hexagon head bolt (X)	29.4 - 34.3 N · m

34. Close the bonnet (M).



9FSSP00029A01

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