

BTL SPINAL DECOMPRESSION

INSTALLATION GUIDE

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1 INTRODUCTION

This document describes the assembly procedure of the BTL Spinal Decompression. All Couch configurations with required components for assembly are presented in the following sections. To ensure proper and smooth assembly, perform the following steps:

- 1) Agree with the customer on the configuration, see the chapter [2 Configurations of BTL Spinal Decompression](#).
- 2) Unpack the Couch according to the chapter [3 Unpacking](#).
- 3) Align the Couch in the room of operation to ensure that the required configuration fits.
- 4) Prepare the boxes with components required for the selected configuration. See the chapter [4 Assembly Procedure](#) for the list of components required for particular configuration.
- 5) Assemble the Console according to the section [4.1 Console](#).
- 6) Assemble the Unit with additional adapters according to the selected configuration. See the section [4.2 Unit and Adapters](#) for instructions.
- 7) Ensure electrical interconnection of the system according to the chapter [5 Electrical Interconnection](#).
- 8) Assemble Accessories according to the section [6 Accessories Assembly](#).
- 9) Perform Functionality inspection according to the chapter [7 Functionality Check](#).

1.1 Symbols and Comments

	General warning, caution, risk or danger
IMPORTANT	Please pay close attention to the information given
NOTE	Additional recommendation

NOTE: Following terms are used in the document:

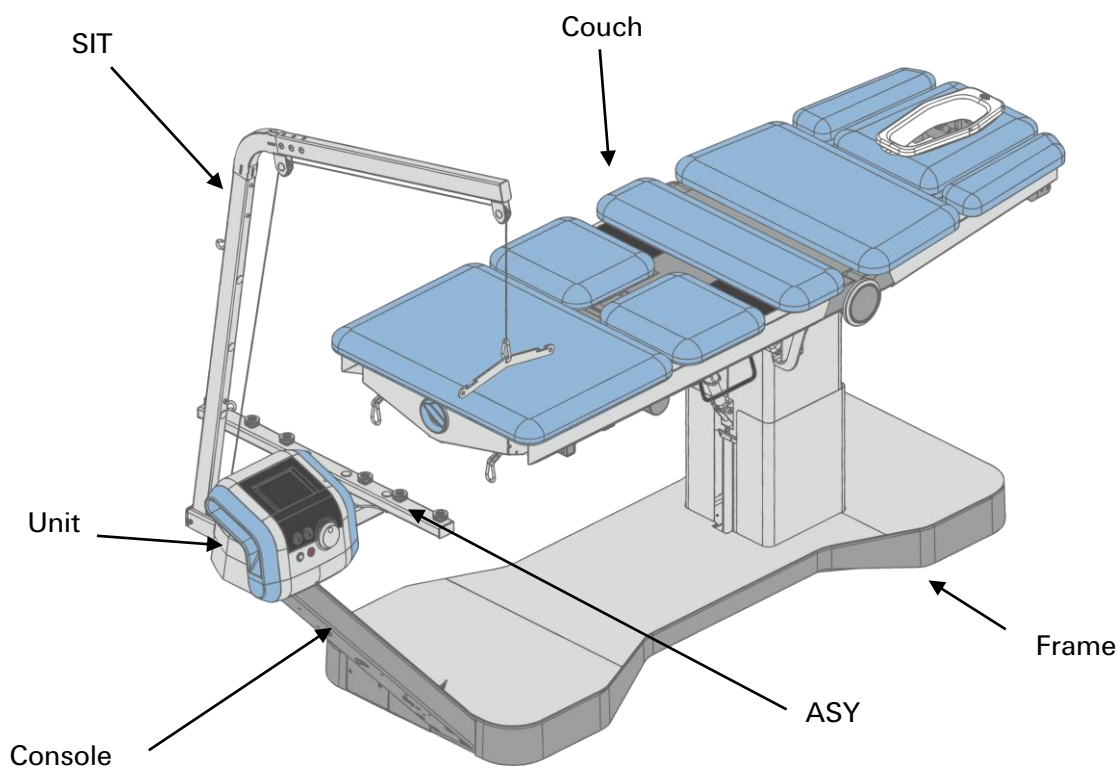
Couch = BTL Spinal Decompression

Unit = BTL-6000 Traction

Sitting Therapy Adapter = SIT

Asymetric Therapy Adapter = ASY

1.2 System Description



1.3 Required Tools and Components

SELECTED TOOLS FROM TOOL SET

The recommended tools below are part of a Tool set for servicing all BTL devices. The Tool set can be ordered from the BTL ISC (see chapter [8 Technical Support Contact](#)).

Type	Tool Description
Torx screwdrivers	Screwdriver Torx TX30 Screwdriver Torx TX25 Screwdriver Torx TX20 long
Slot screwdrivers	Screwdriver Slot 4 mm
Nut screwdrivers	Ratchet Screwdriver Set with extension
Spanners	Spanner 8x10 mm Spanner 13x17 mm
Pliers	Cutting pliers
Others	Allen keys 7 pcs. HX1,5 - HX6,0 Allen keys 9 pcs. TX8 – TX40 Square to Hex Bit adaptor 1/4" - 1/4" Torque wrench Wera 7000A, 1-25N·m Knife trimming 18 mm

LIST OF COMPONENTS

The tables below list all components for Couch assembly. See the chapter [4 Assembly Procedure](#) for the list of components required for particular configuration.

FRONT FRAME COVERS		
Component	Quantity	Box label
Front frame cover L	1	Universal Accessory
Front frame cover C	1	
Front frame cover R	1	
Screws M5x25 (TX25)	6	
Flat washers M5	6	
Plastic spacer D10xL18	6	



CONSOLE		
Component	Quantity	Box label
Bolts M8x35	4	Universal Accessory
Hexagonal nuts M8	4	

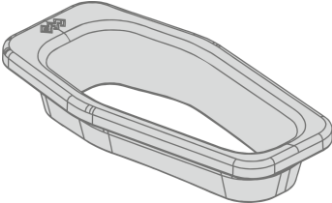
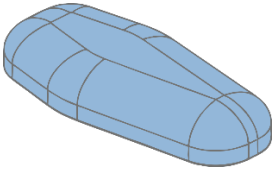
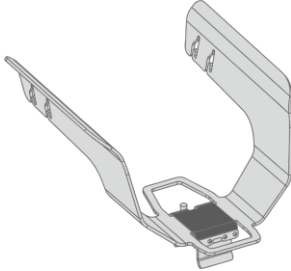
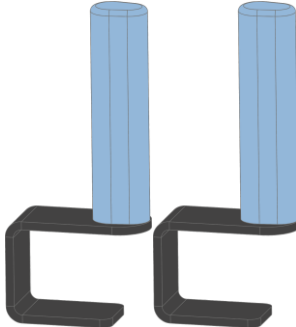
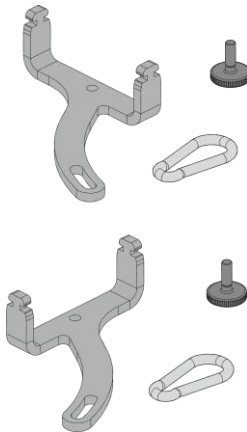
UNIT		
Component	Quantity	Box label
Front cover	1	Universal Accessory
Back cover	1	
Left Profile	1	
Right Profile	1	
Extension 1	1	
Extension 2	1	
Screws M4x6 (TX20)	2	
Screws M4x8 (TX20)	7	
Screws M6x16	4	

SIT		
Component	Quantity	Box label
Screws M6x16 (TX30)	4	Sitting Therapy Adapter
Screws M6x12 (TX30)	2	
Strength bolts M6x55 (H4)	2	
Flat washers M6	2	
Split spring lock washers M6	4	
Hexagonal lock nuts M6	2	
Lower beam	1	
Middle beam	1	
Upper beam	1	
String with carabiner	1	

ASY		
Component	Quantity	Box label
Base beam	1	Asymmetric Therapy Adapter
Transverse beam	1	
Bolts M8x20 (HX5)	2	
Screws M6x12 (TX30)	4	
Screws M6x20 (TX30)	2	
Hexagonal lock nuts M6	2	
Hexagonal lock nuts M8	2	
Split spring lock washers M8	2	
Split spring lock washers M6	6	
Plastic end cap	3	

ADDITIONAL ACCESSORY

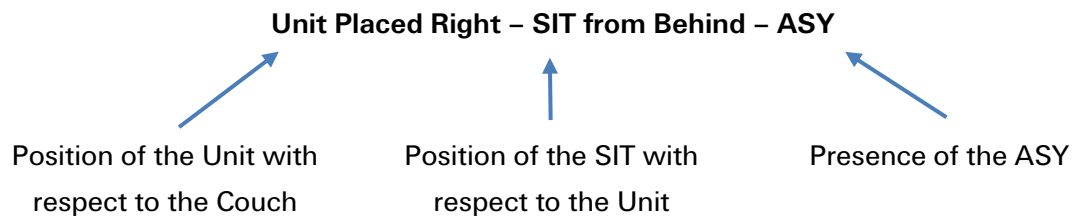
The table below lists Couch accessories. See the section [6 Accessories Assembly](#) for their assembly.

Component	Quantity	Accessory
Face Pad	1	
Upholstery Insert	1	
Helmet for Cervical adapter	1	
Axilla posts	2	
Inversion therapy set	1	

2 CONFIGURATIONS OF BTL SPINAL DECOMPRESSION

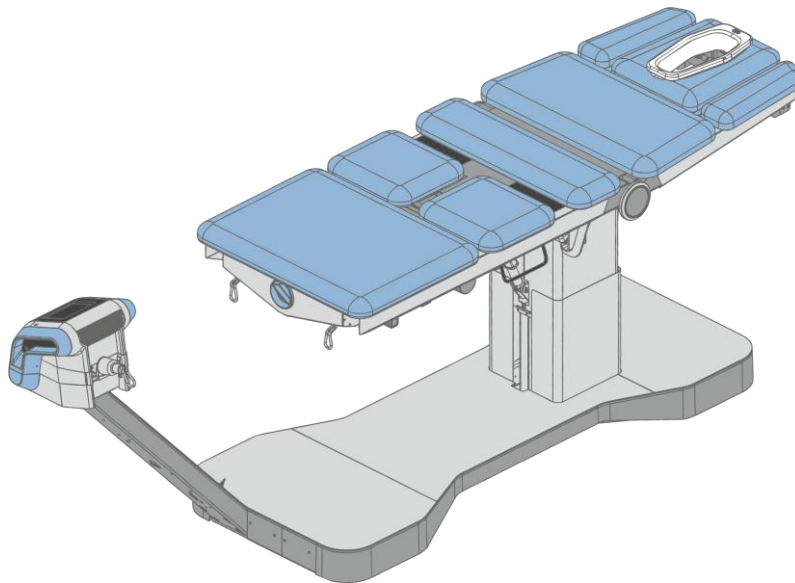
Different configurations enable to customize the Couch according to the working environment and required performance. This chapter shows an overview of all possible configurations. Agree with the customer on the configuration before starting the assembly.

Configuration Name Structure

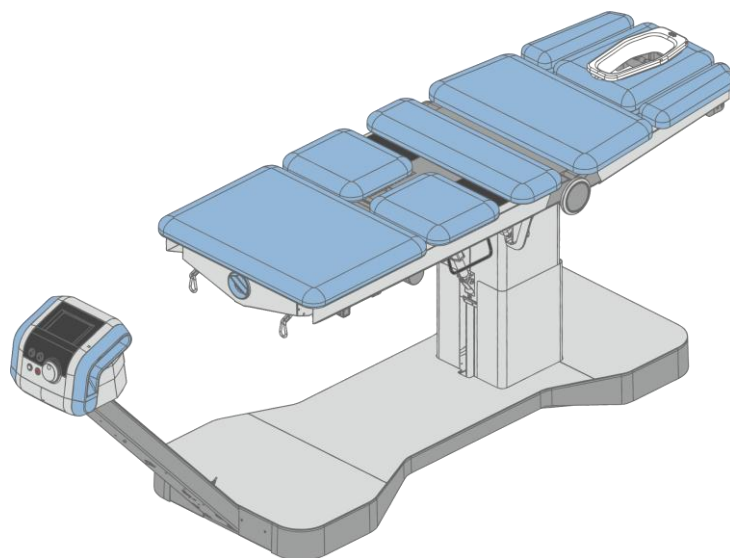


2.1 Couch without Adapters

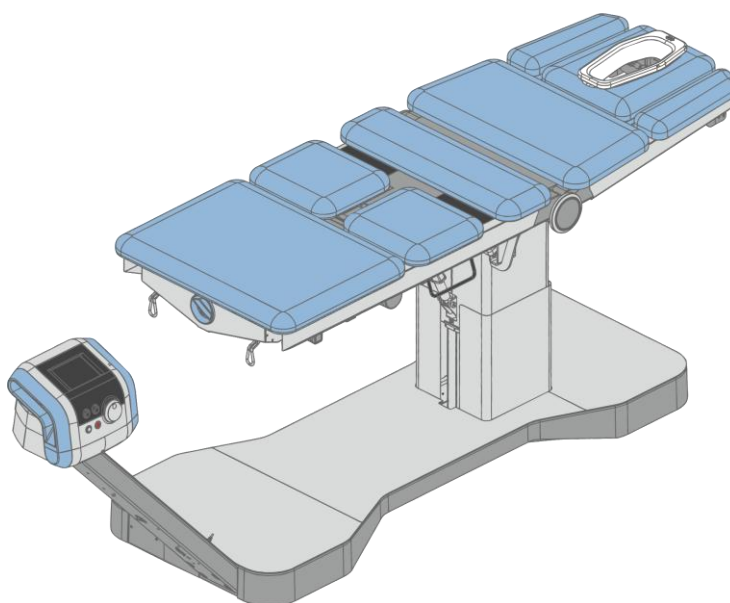
Unit Placed Left



Unit in Center

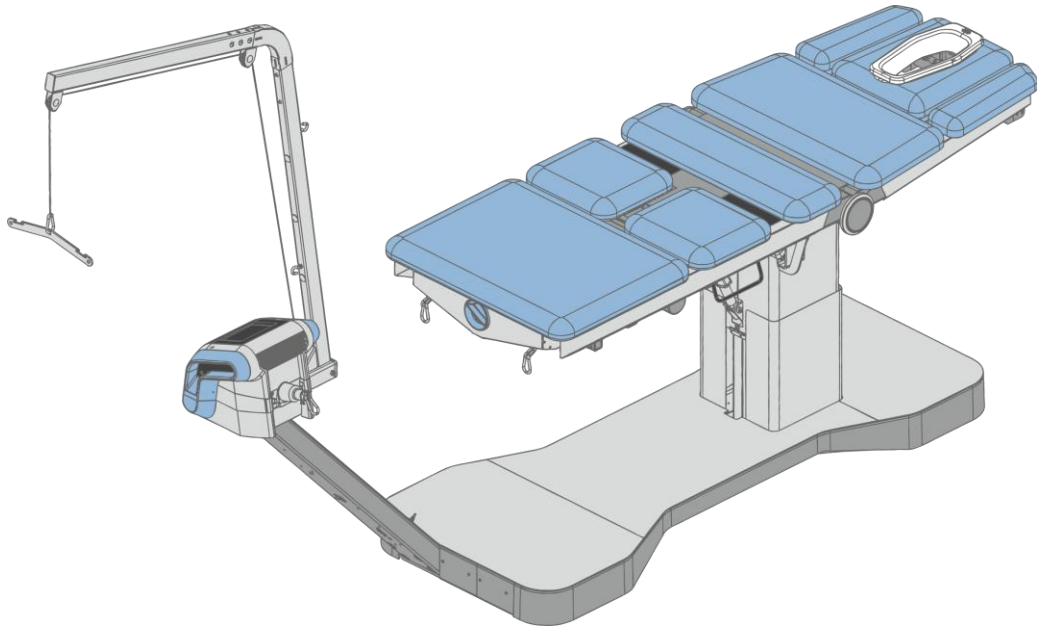


Unit Placed Right

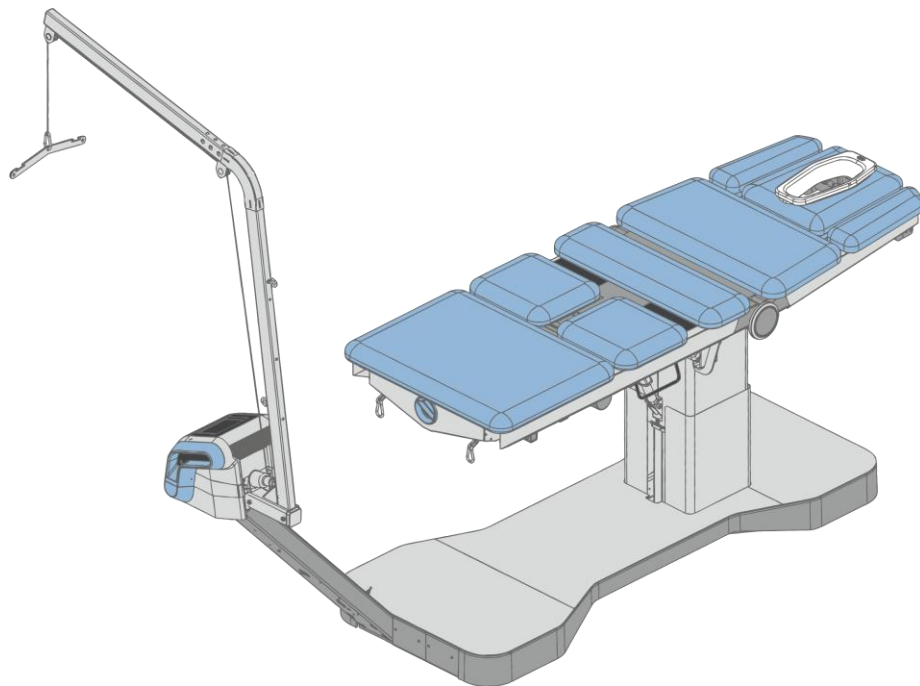


2.2 Couch with SIT

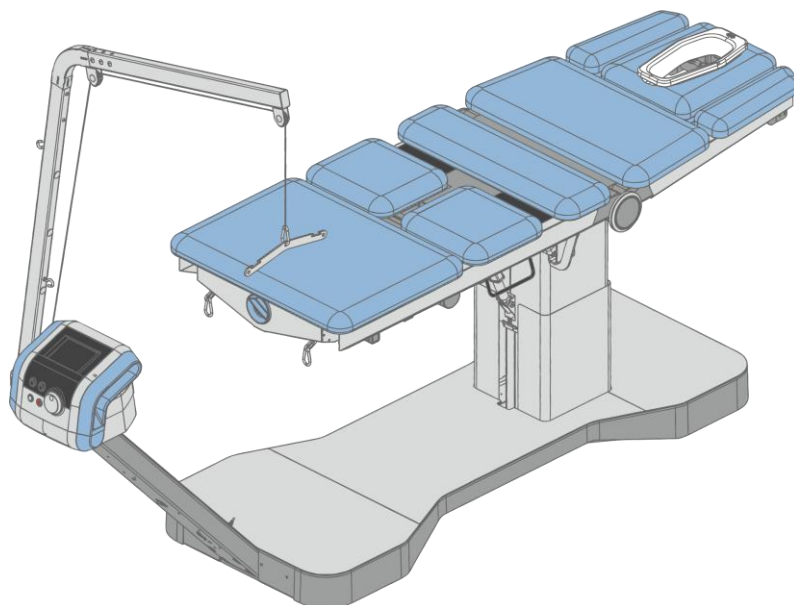
Unit Placed Left – SIT from Left



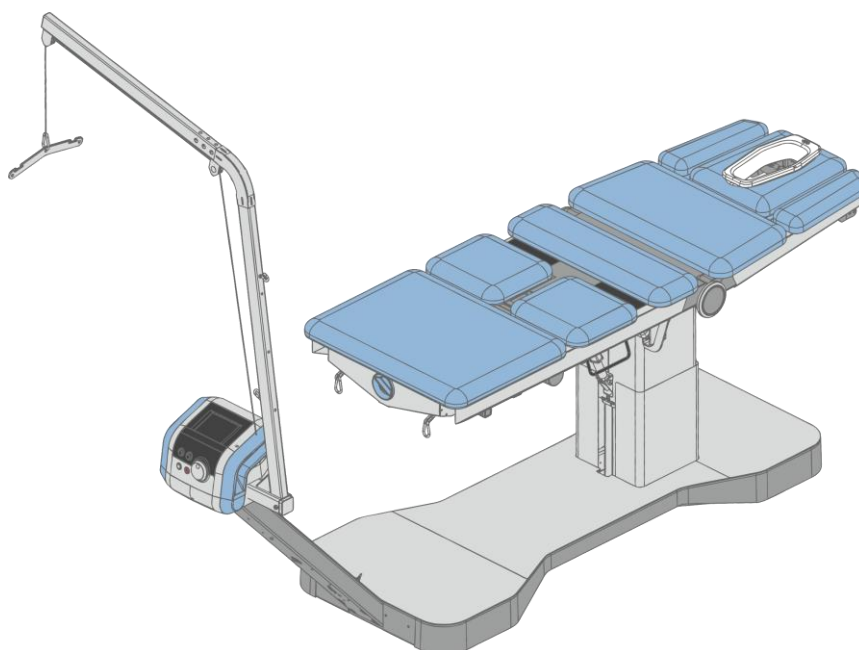
Unit Placed Left – SIT from Behind



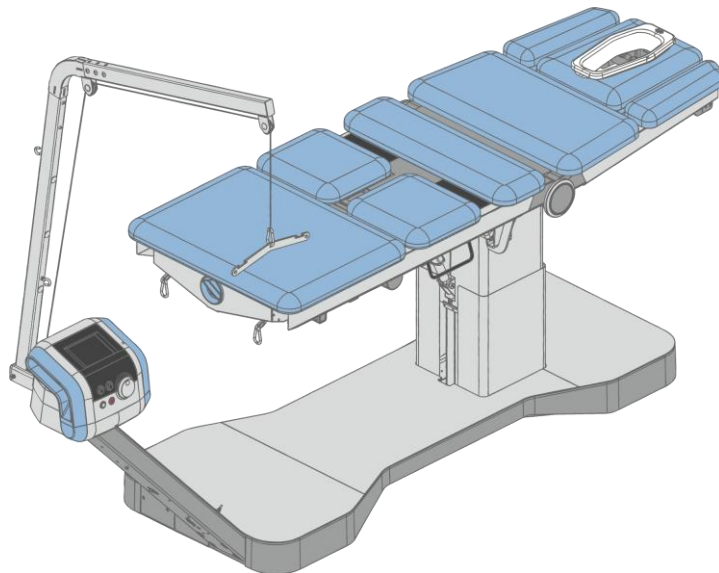
Unit in Center – SIT from Left



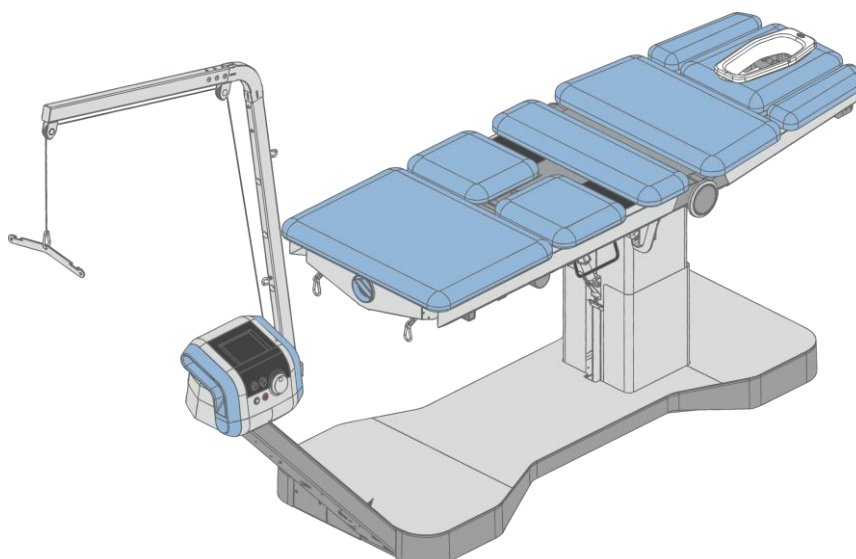
Unit in Center – SIT from Right



Unit Placed Right – SIT from Behind

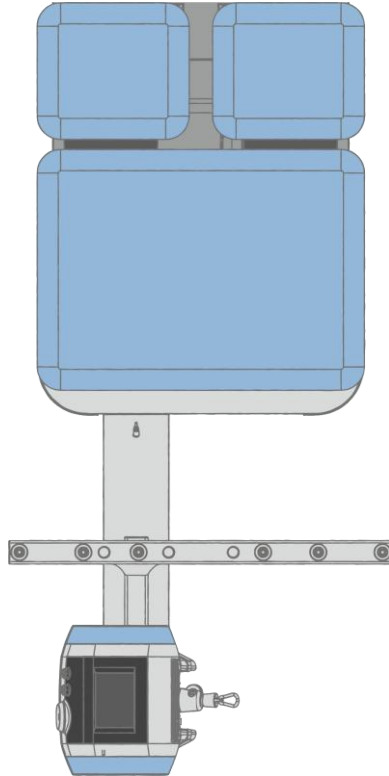


Unit Placed Right – SIT from Right

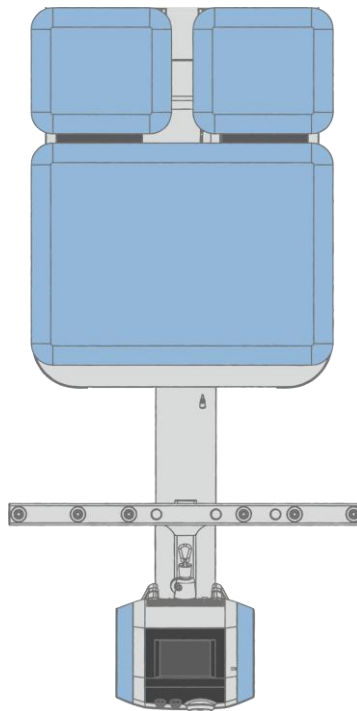


2.3 Couch with ASY

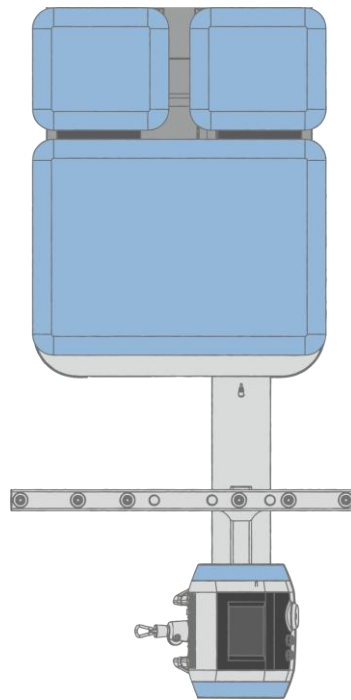
Unit Placed Left – ASY



Unit Placed in Center – ASY

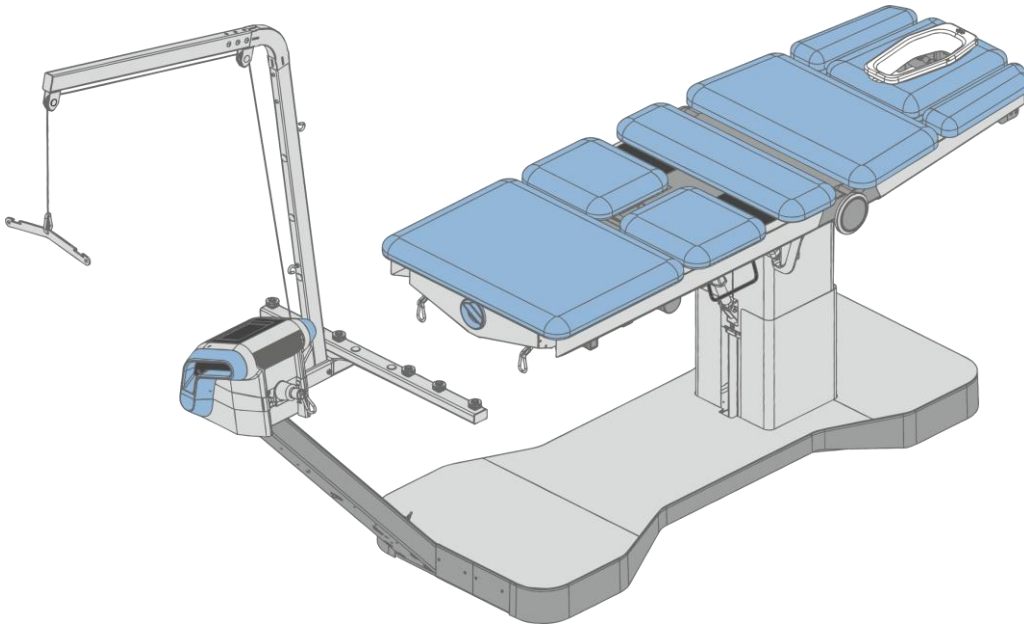


Unit Placed Right – ASY

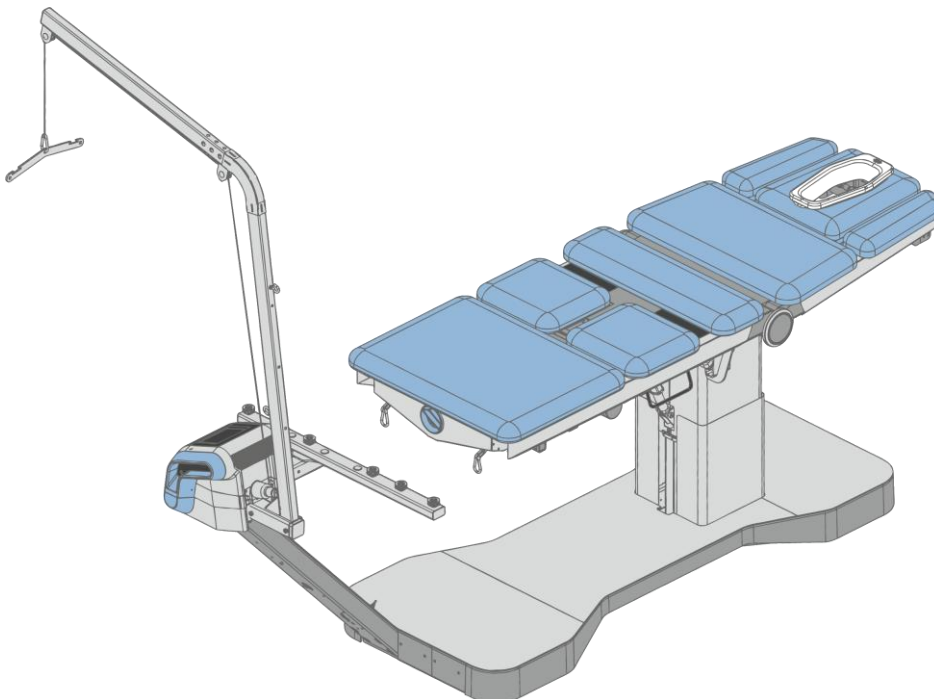


2.4 Couch with SIT and ASY

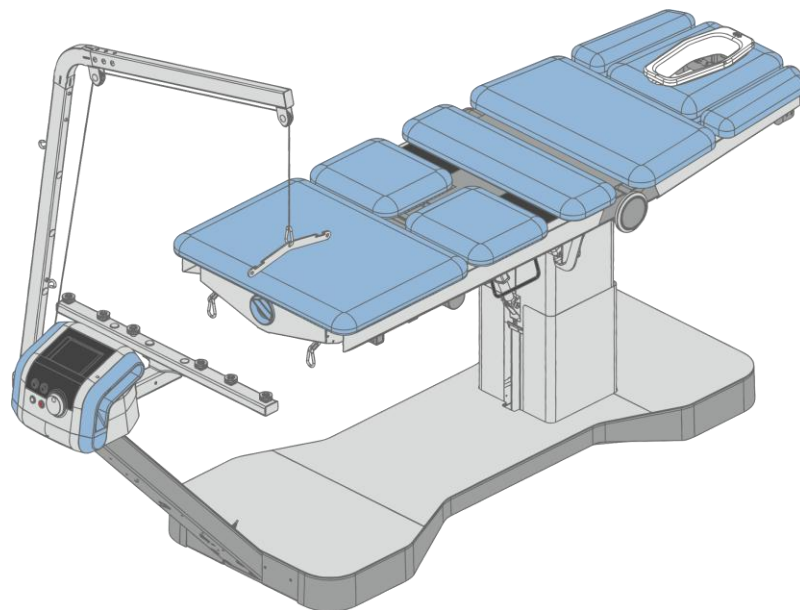
Unit Placed Left – SIT from Left – ASY



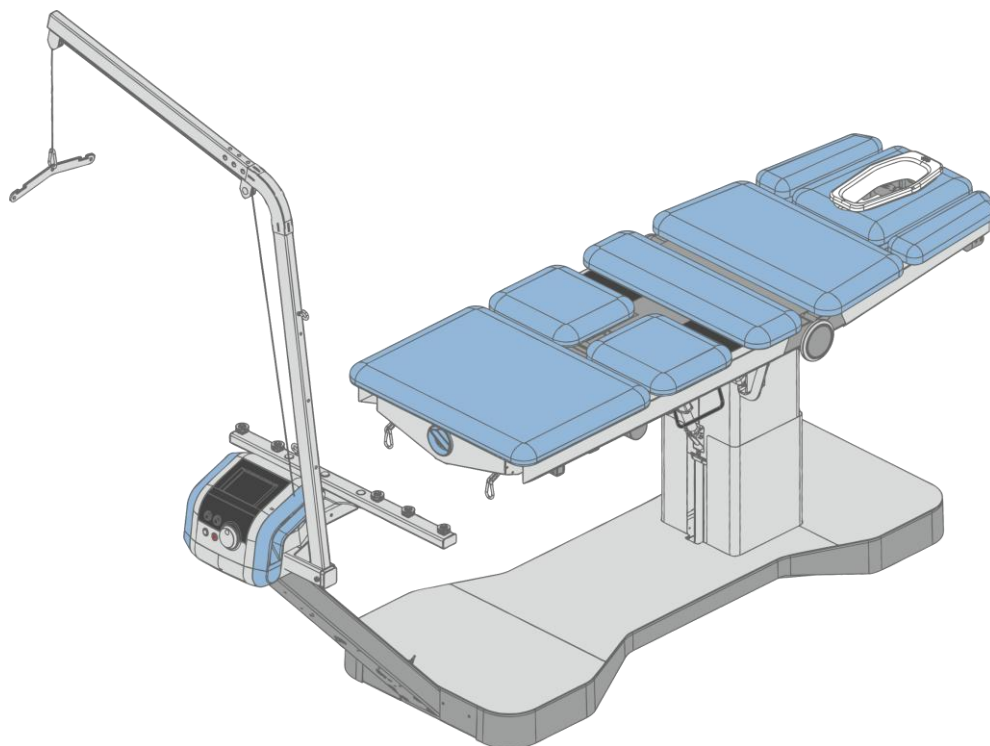
Unit Placed Left – SIT from Behind – ASY



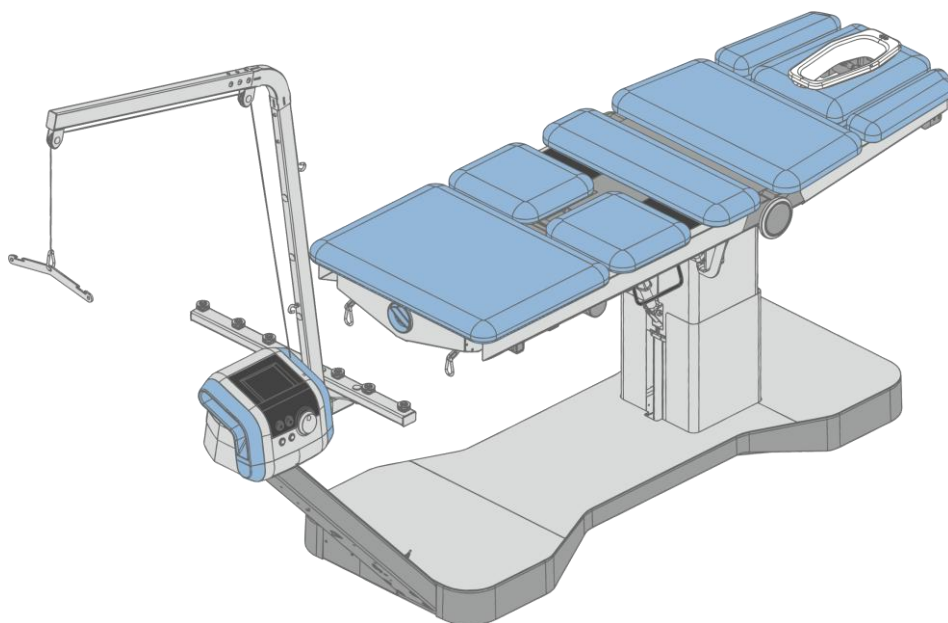
Unit in Center – SIT from Left – ASY



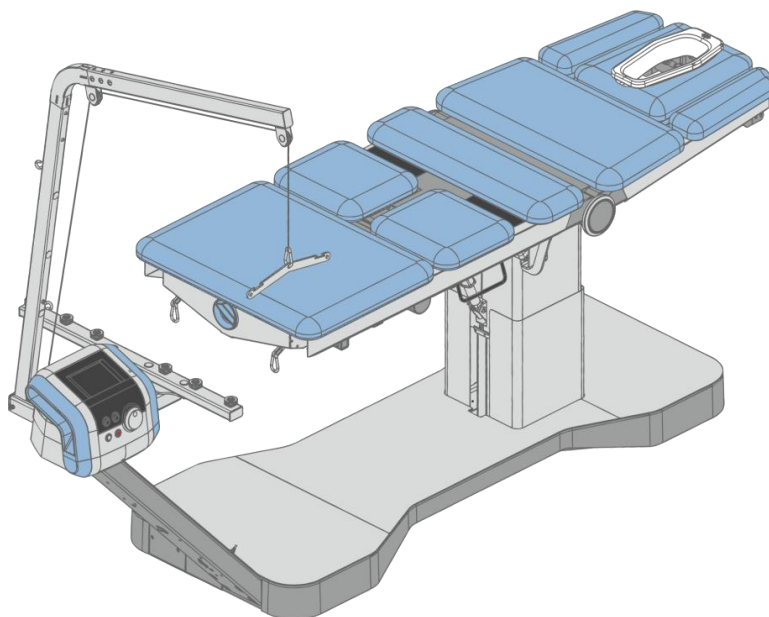
Unit in Center – SIT from Right – ASY



Unit Placed Right – SIT from Right – ASY

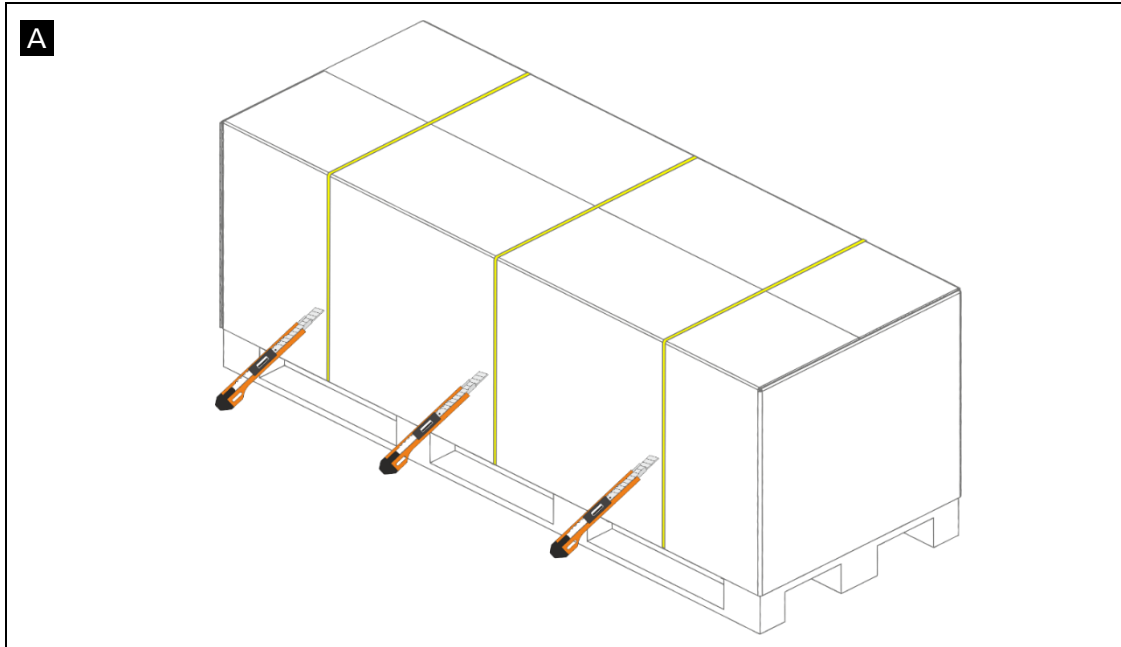


Unit Placed Right – SIT from Behind – ASY

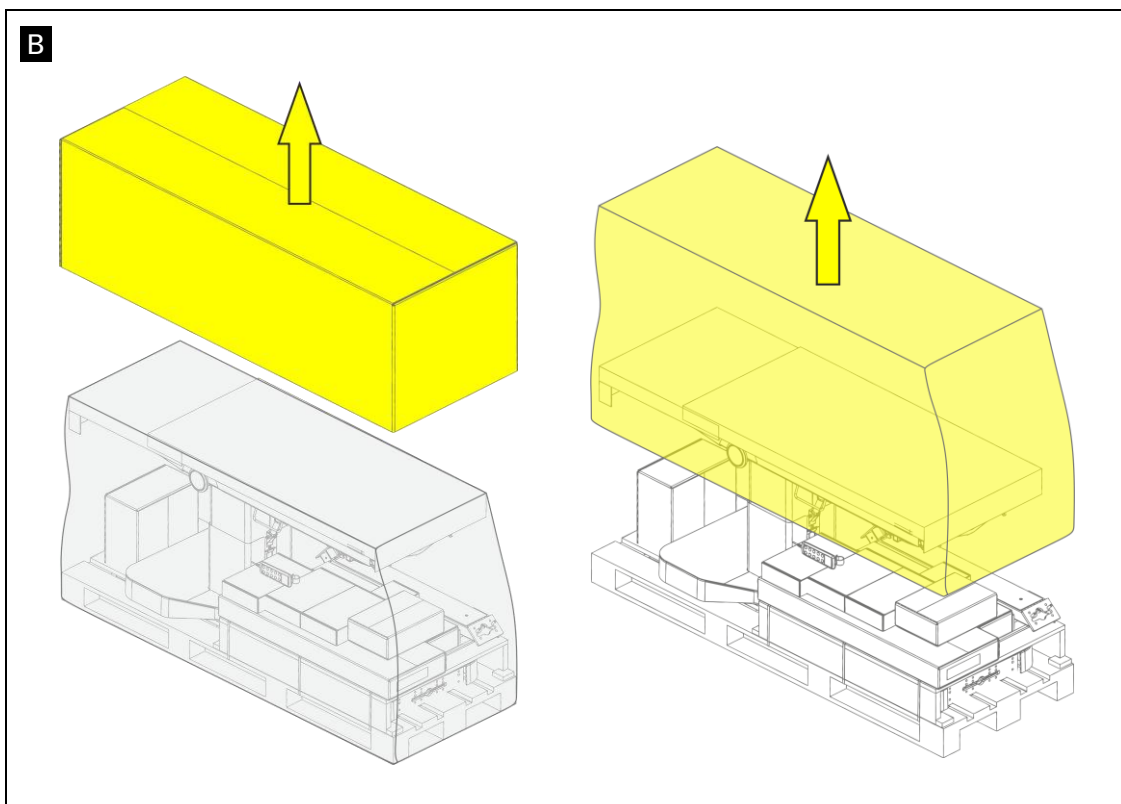


3 UNPACKING

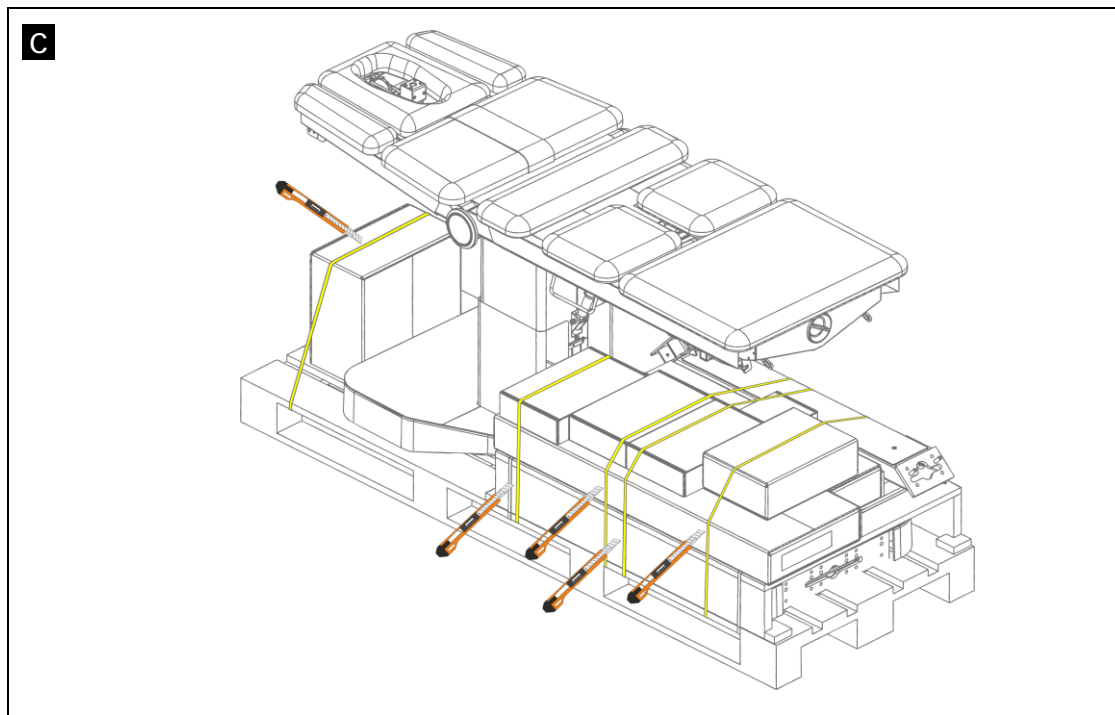
(A) Cut the plastic ties securing the Couch box.



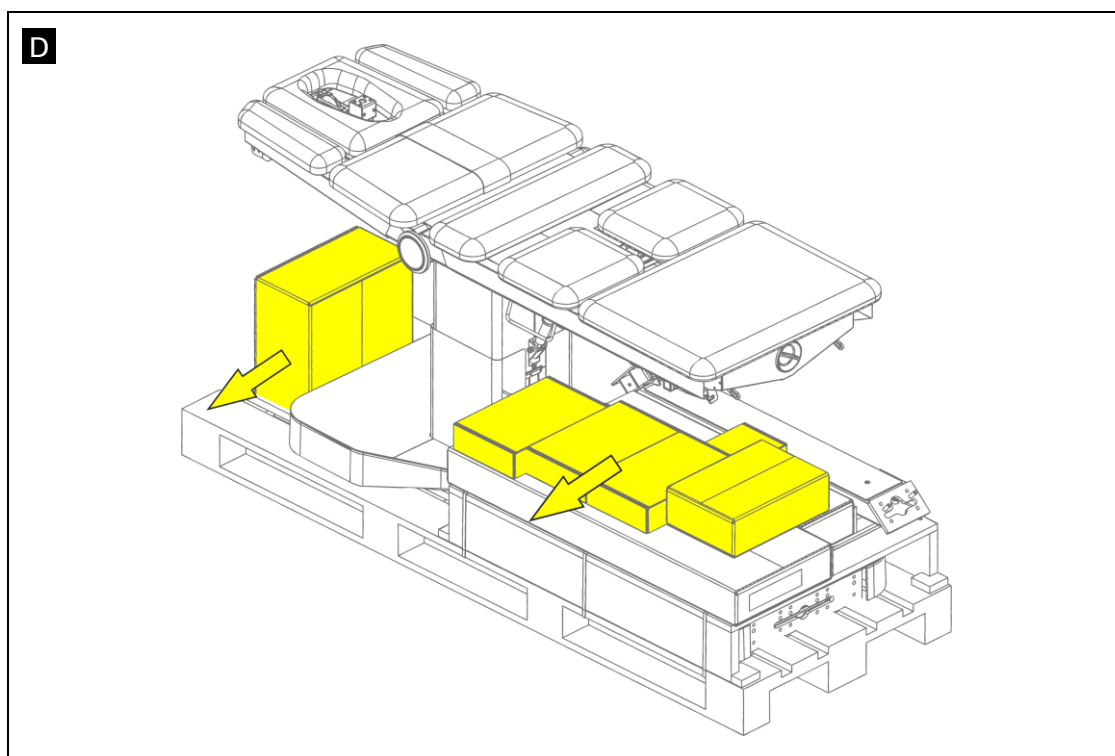
(B) Remove the Couch box and all protective covers beneath.



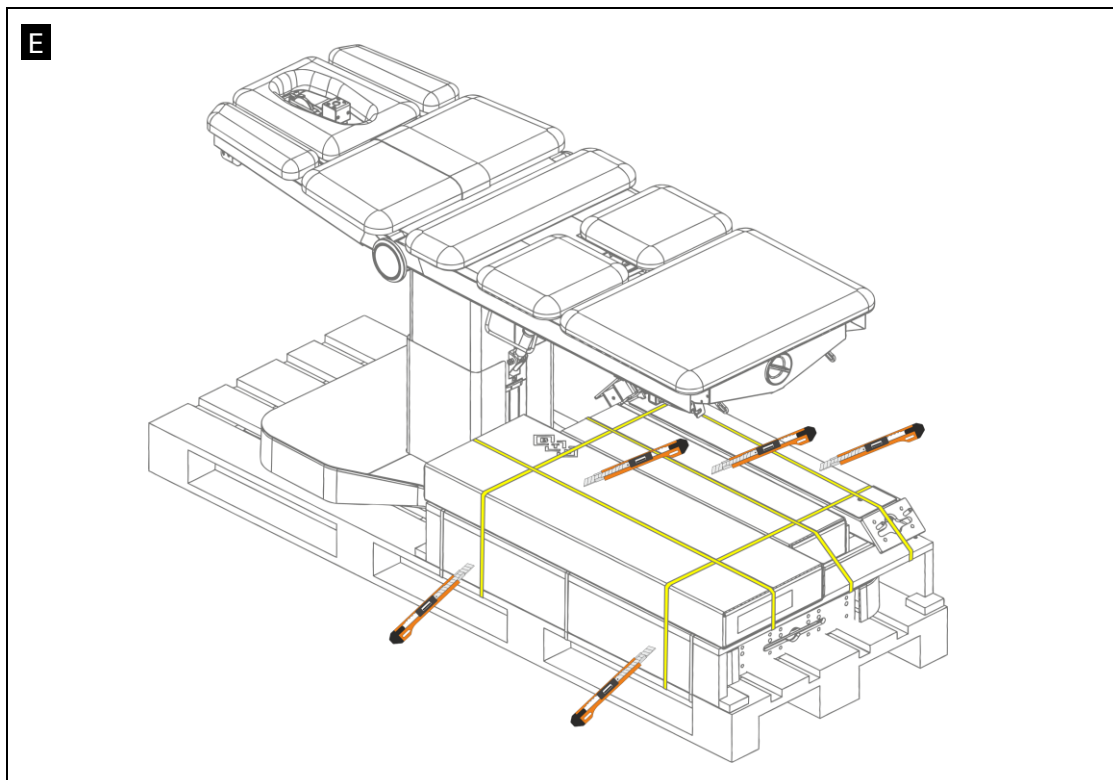
(C) Cut the plastic ties securing boxes with components.



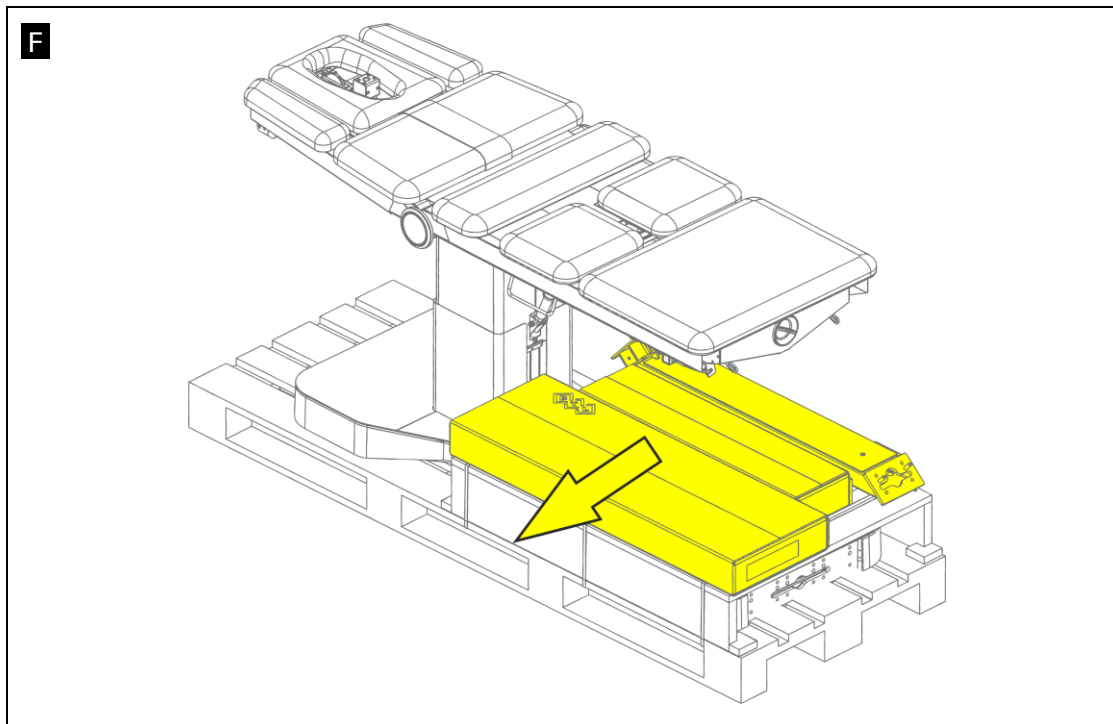
(D) Set aside boxes with components.



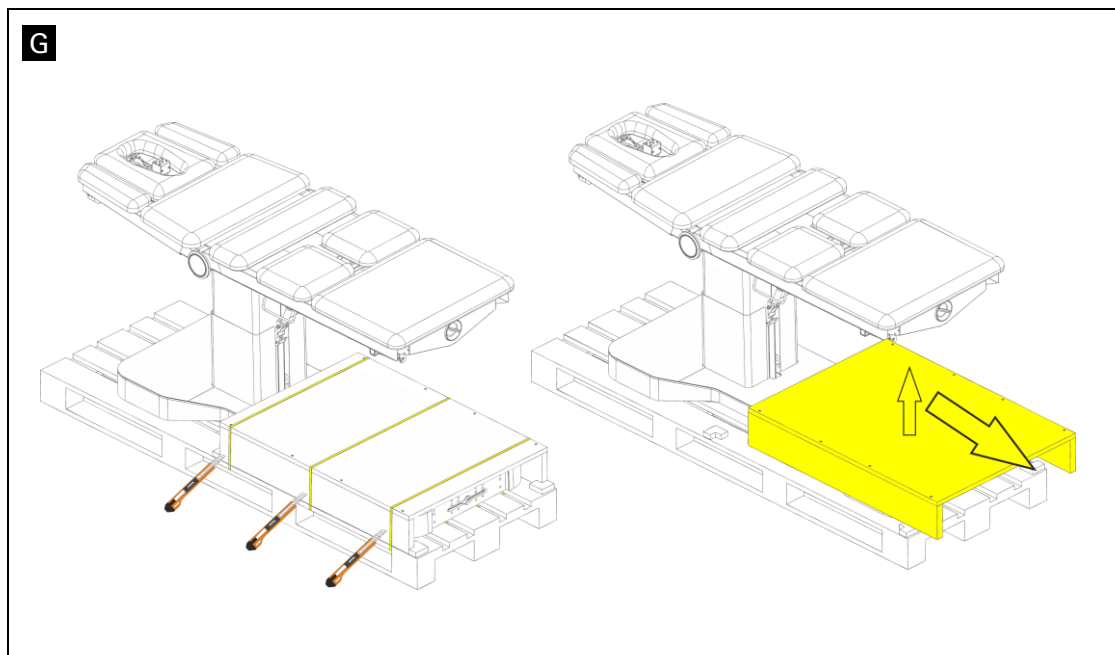
(E) Cut the plastic ties securing boxes components.



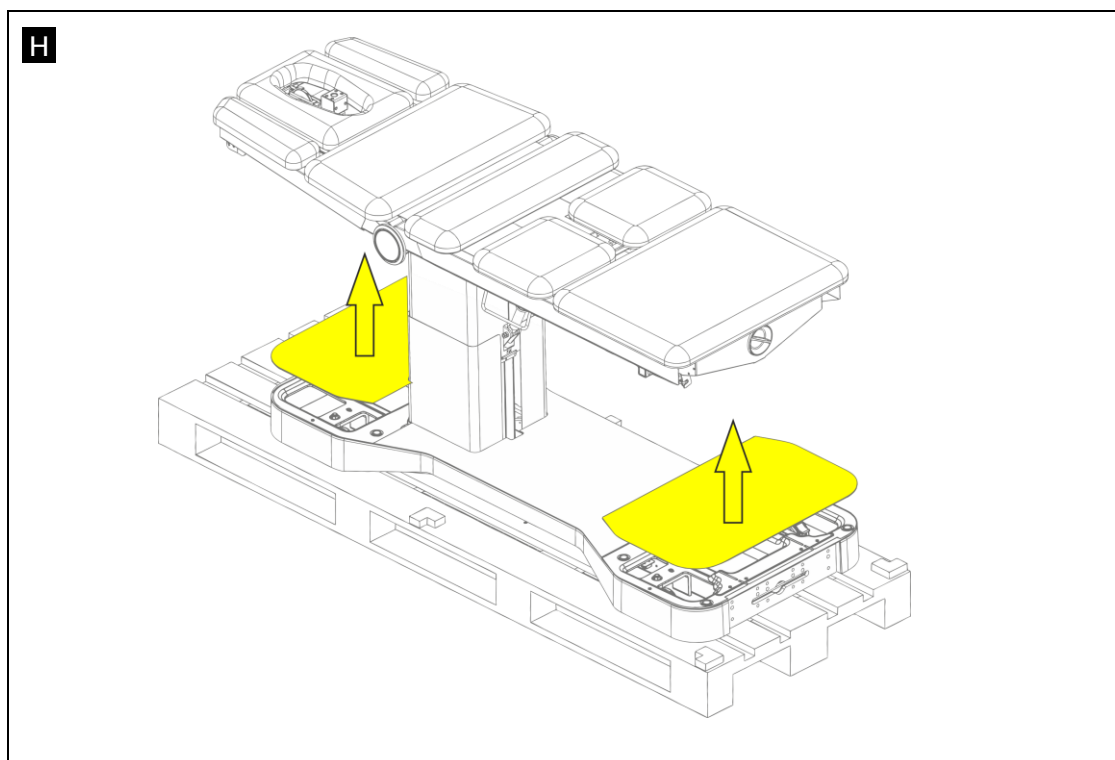
(F) Set aside the Console and the boxes with components.



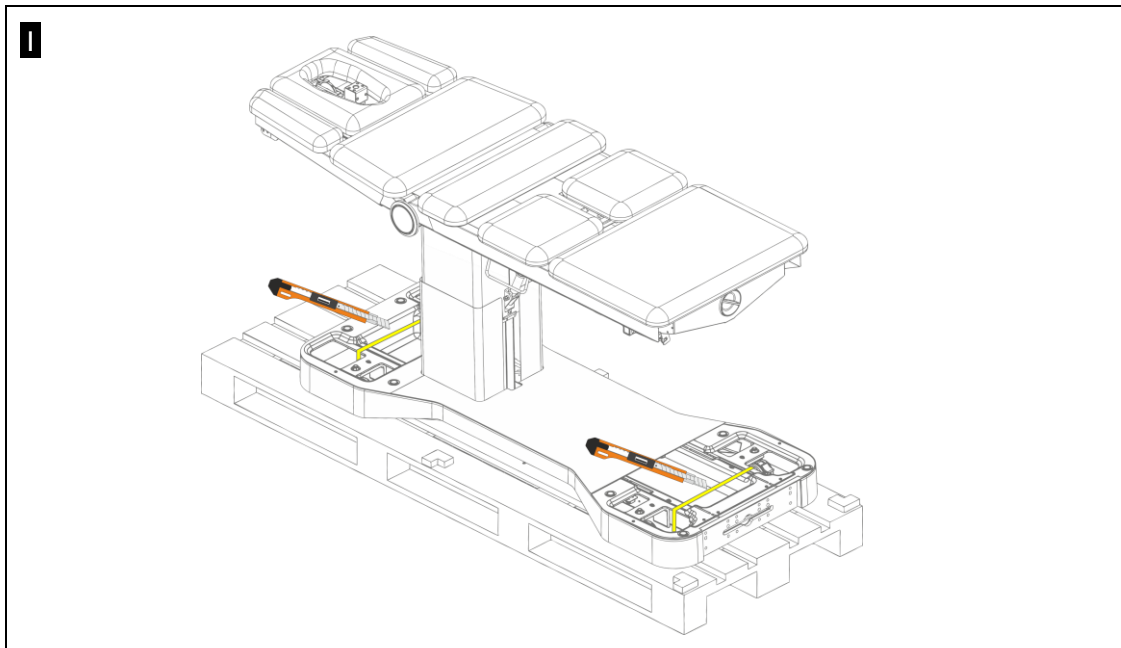
(G) Cut the plastic ties securing the wooden cover. Lift the wooden cover to avoid scratching the Top frame cover and remove it carefully.



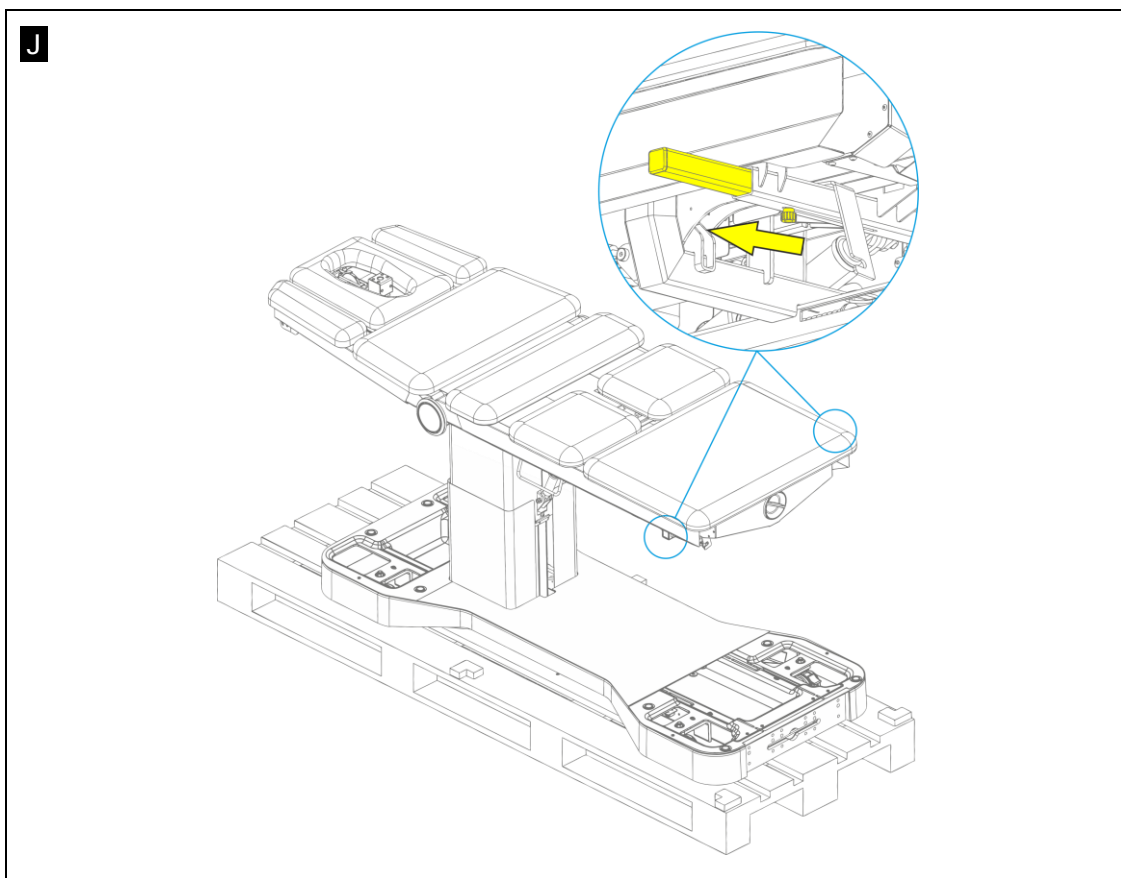
(H) Remove the Top frame covers.



(I) Cut the plastic ties beneath the Top frame covers.



(J) Loosen the hand screws and slide out retractable handles from each side of the frame. Secure the position of the retractable handles by the hand screws.



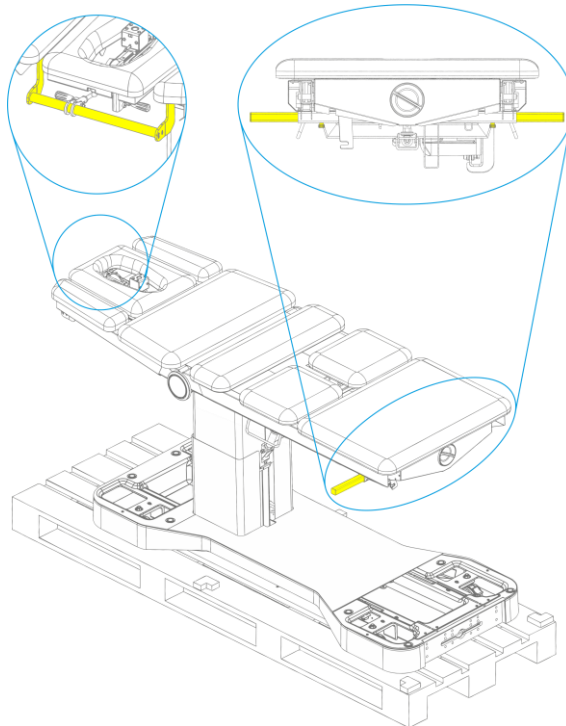
(K) Lift the Couch off the palette and set it on the ground using the head section handle and the retractable handles.



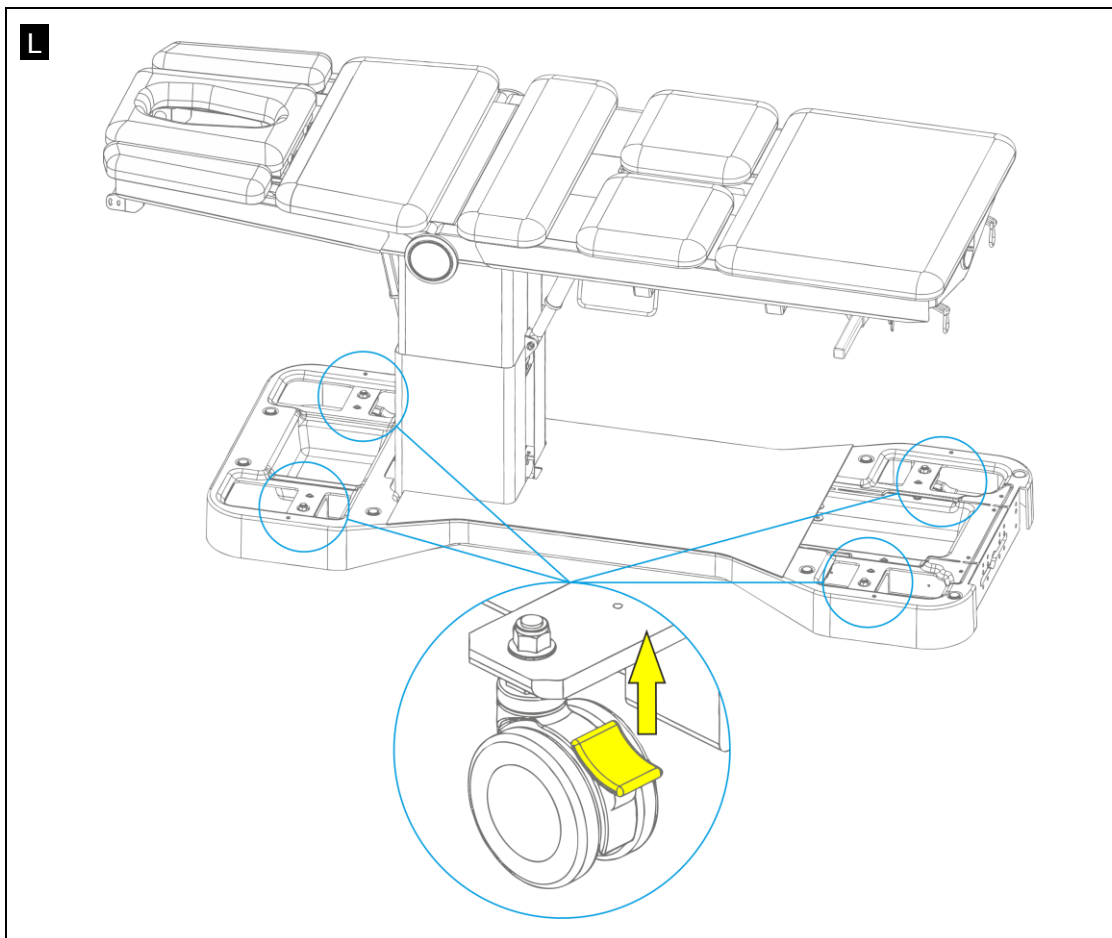
CAUTION: Lifting the Couch by any other holds may damage it.

NOTE: At least two people are required to lift the Couch from wooden palette.

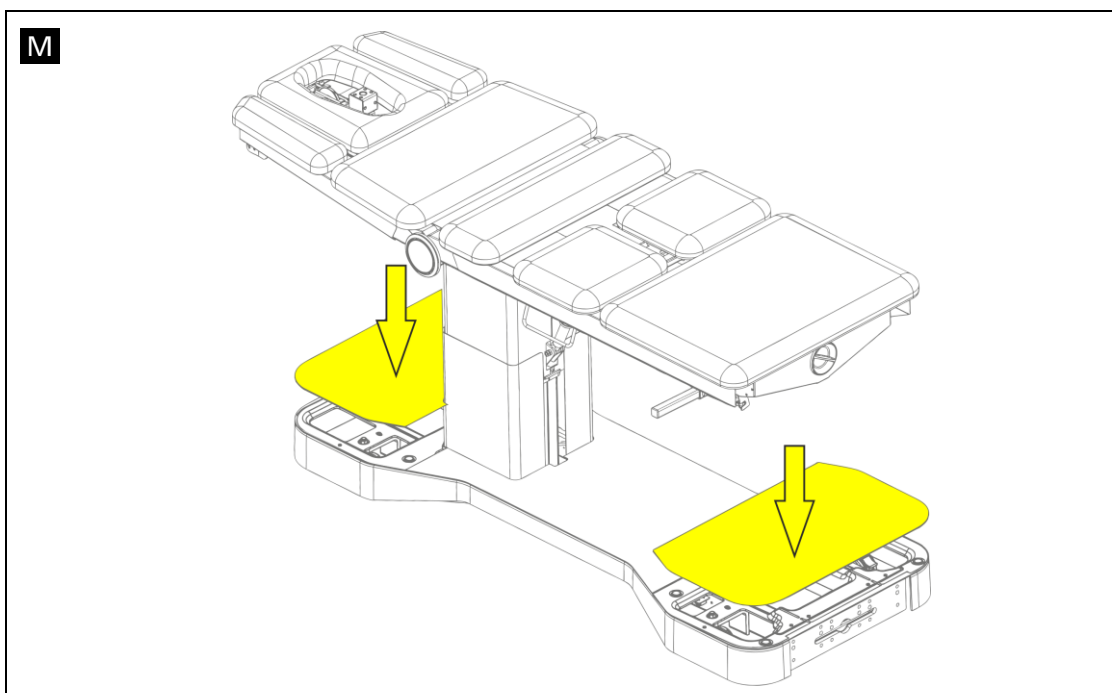
K



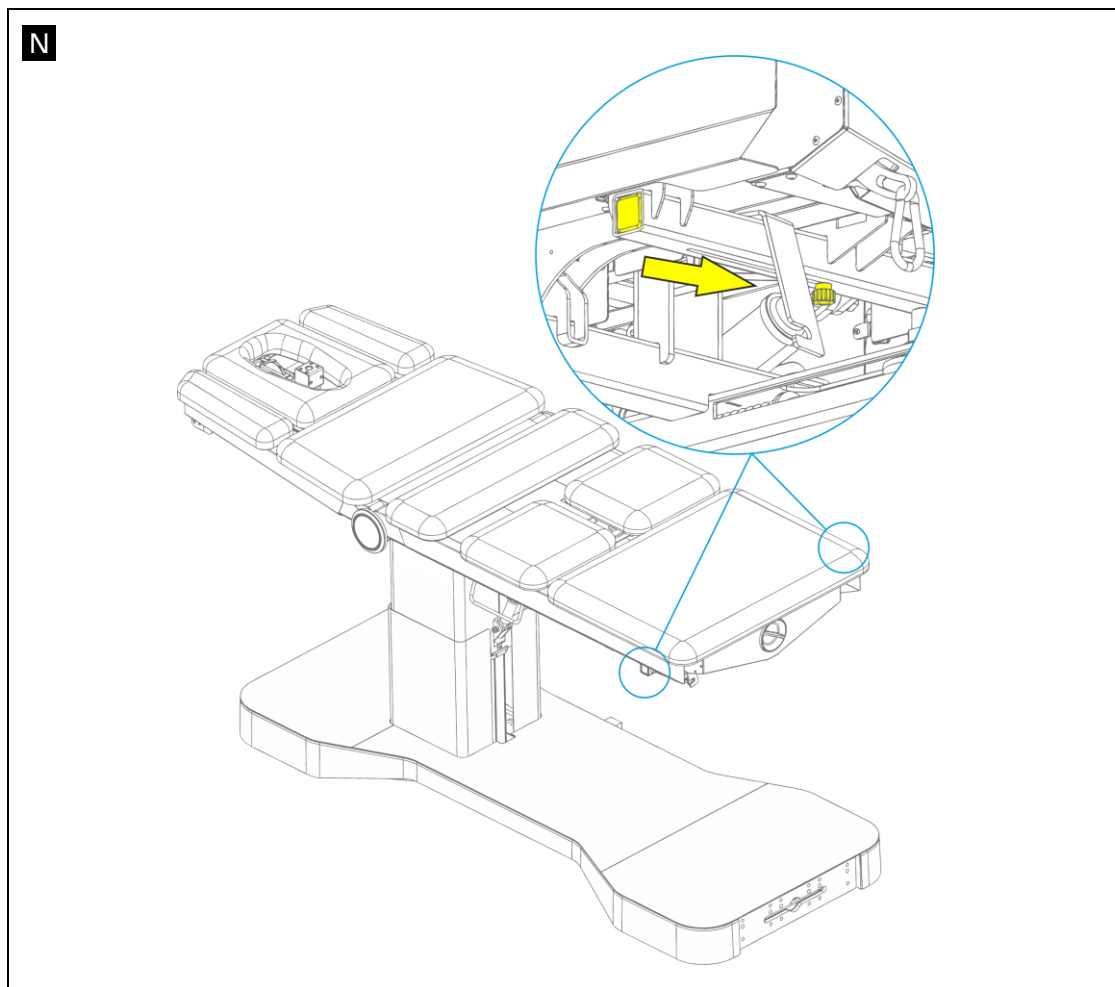
(L) Release the wheel brakes.



(M) Put back the Top frame covers.



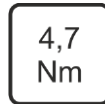
(N) Loosen the hand screws of the retractable handles and retract them back into the Frame. Secure the handles by tightening the hand screws.



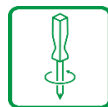
4 ASSEMBLY PROCEDURE

NOTE: Pay attention to those parts during assembly/disassembly process.

Parts tightened with defined torque are marked with this symbol:



Parts that require full tightening as they have been previously tightened only half way are marked with this symbol:

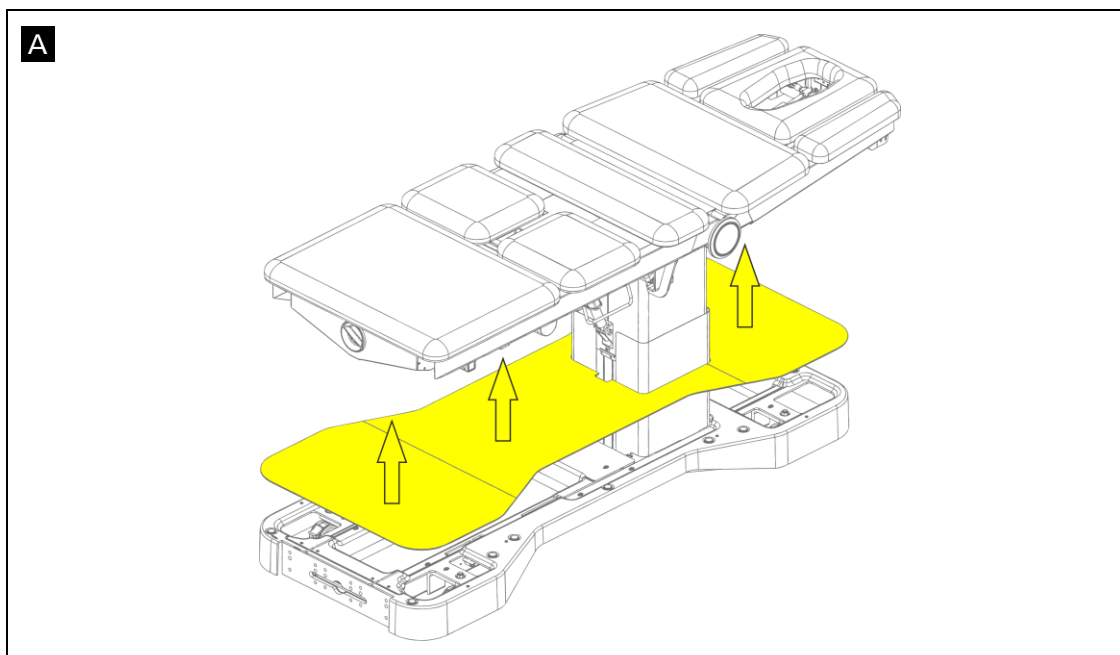


4.1 Console

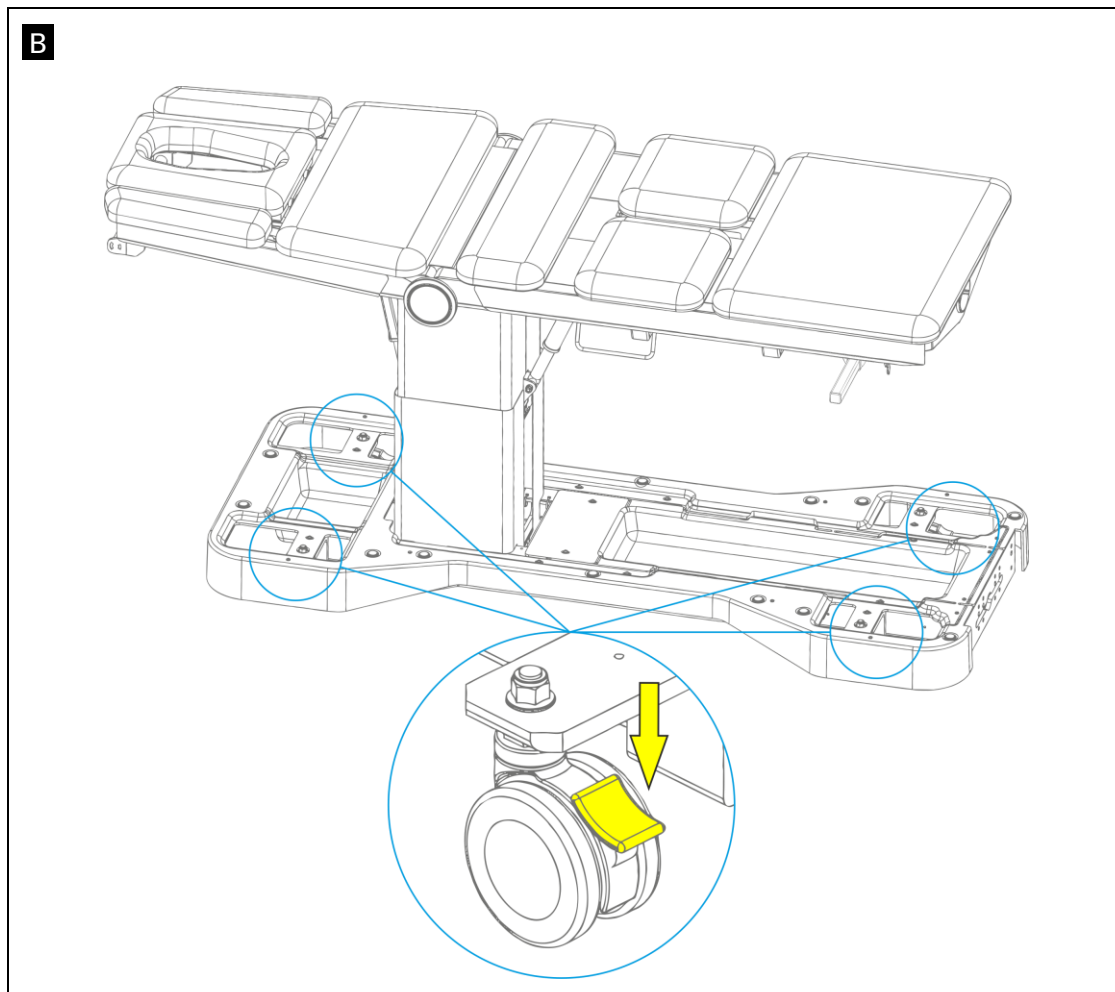
Prior to the Console assembly, agree with customer on the Couch configuration according to the chapter [2 Configurations of BTL Spinal Decompression](#). Components for the assembly can be found in the table "CONSOLE" in the chapter [1.3 Required Tools and Components](#).

NOTE: Left side Console configuration was selected for the procedure demonstration. Procedure for other configurations is equivalent.

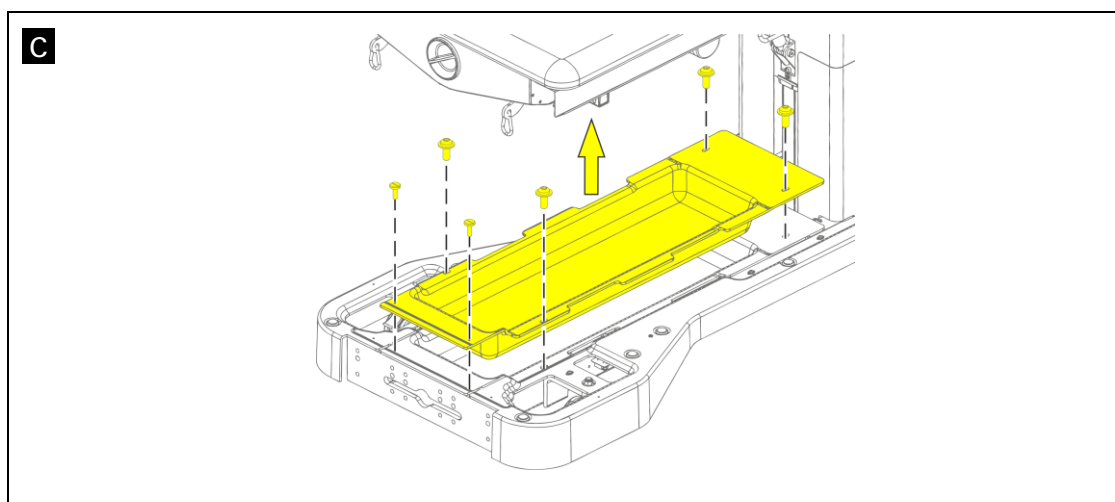
(A) Remove the Top frame covers.



(B) Brake the wheels to prevent the Couch from moving.

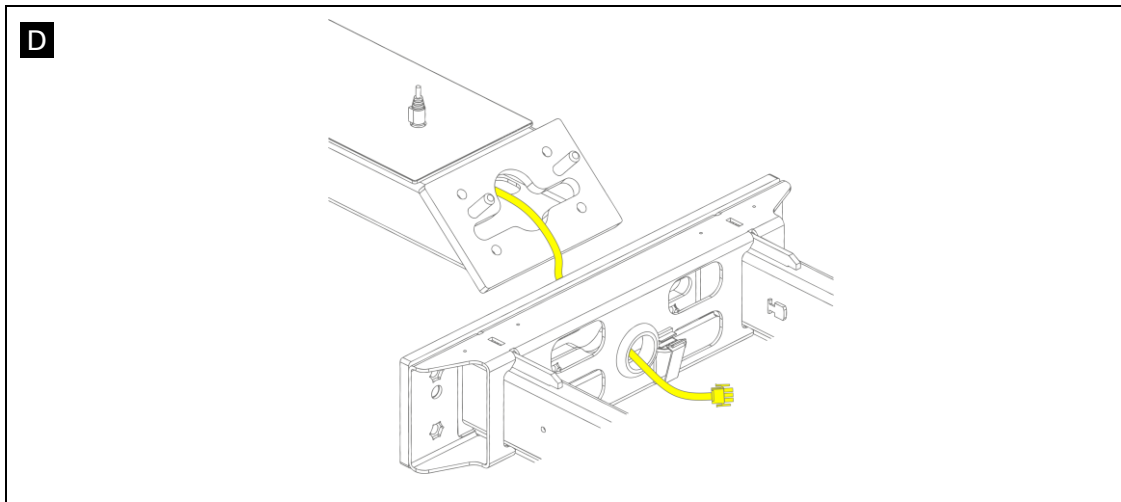


(C) Unscrew four screws M5x12 (TX25), two screws M3x10 (Slot) and remove the Bottom frame cover.



(D) Lay the Console on the ground with the bottom part facing the Frame and pass the Mains cable from the Console through the circular bushing in the Frame.

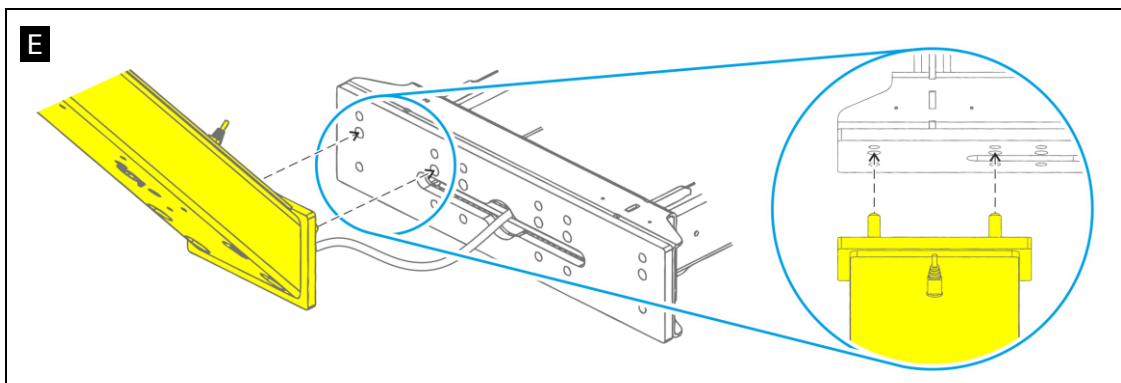
NOTE: To prevent scratching of the Console or the ground, place the Console on the anti-static bubble wrap from its packaging.



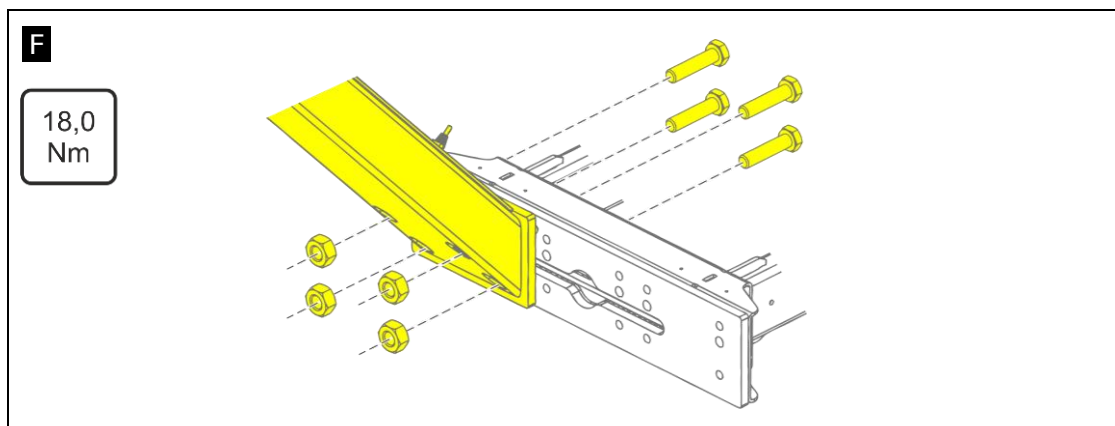
(E) Insert the cylindrical plugs at the bottom part of the Console inside the designated slits in the Frame.



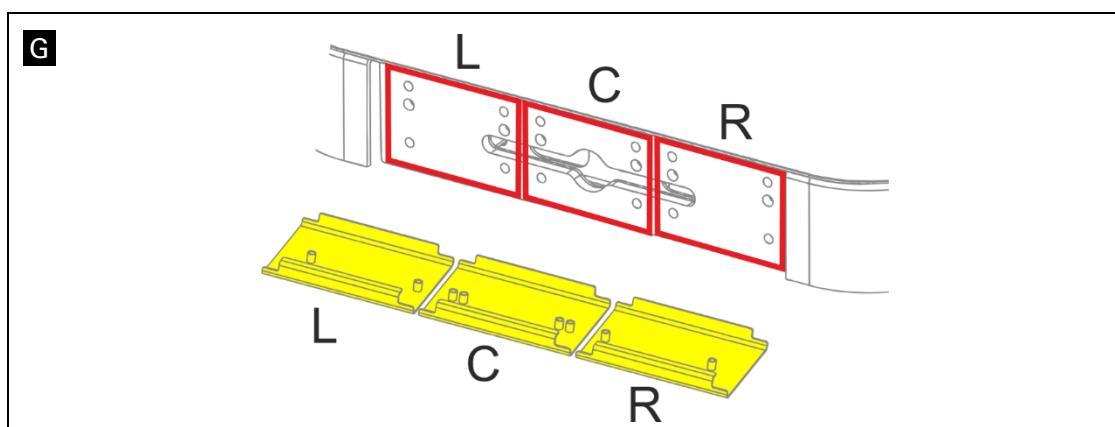
CAUTION: Do not pinch the Mains cable between the Console and the Frame.



(F) Secure the Console by four bolts M8x35 and nuts M8. Use a spanner socket 13 mm with extension from the Ratchet screwdriver set for tightening. Heads of the bolts are secured by hexagonal profiles in the frame.

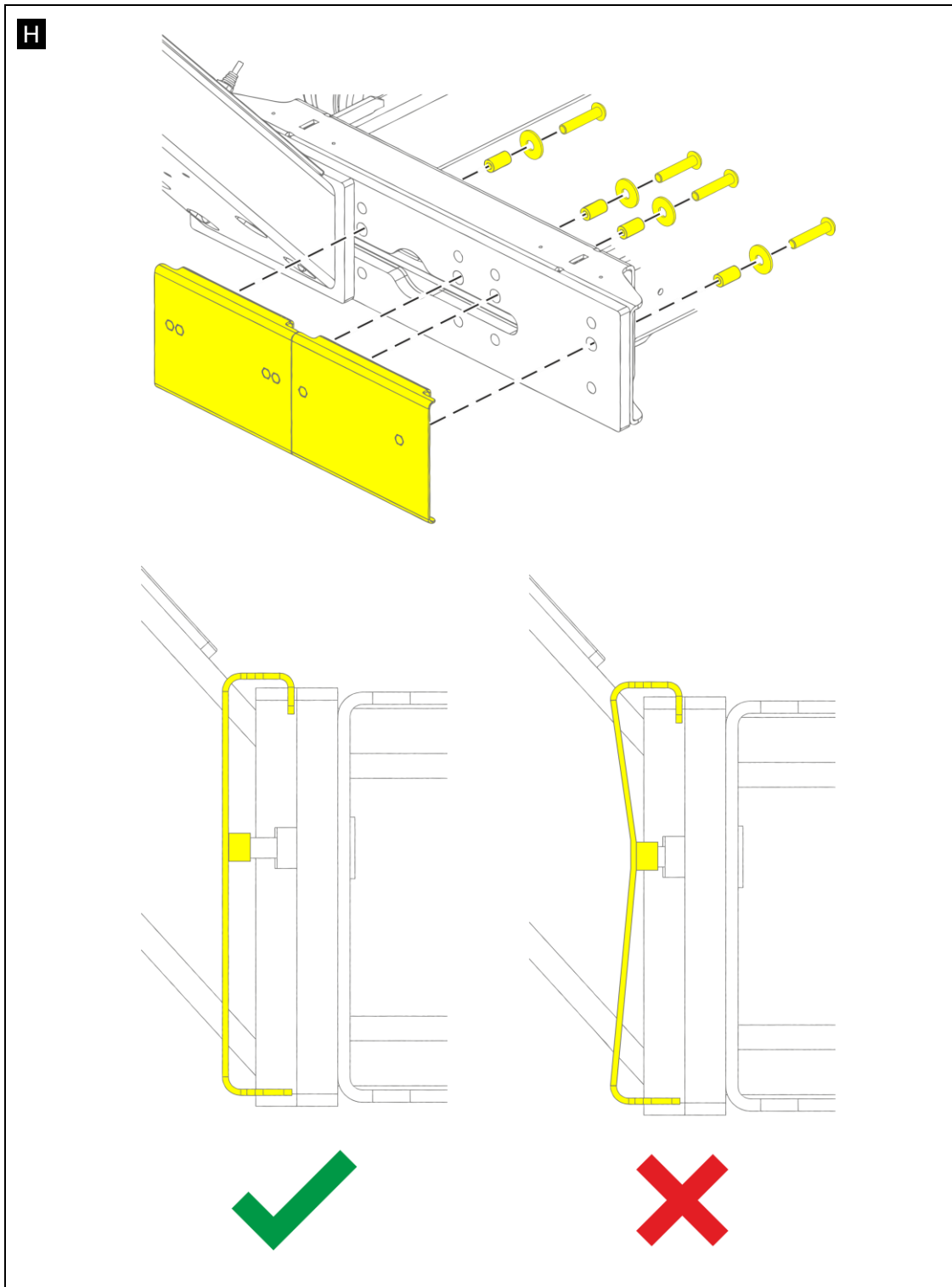


(G) Select appropriate Front frame covers. Covers are marked by letters "L", "C", "R" written on the inner surface to be fitted into their respective positions (left, right, center).

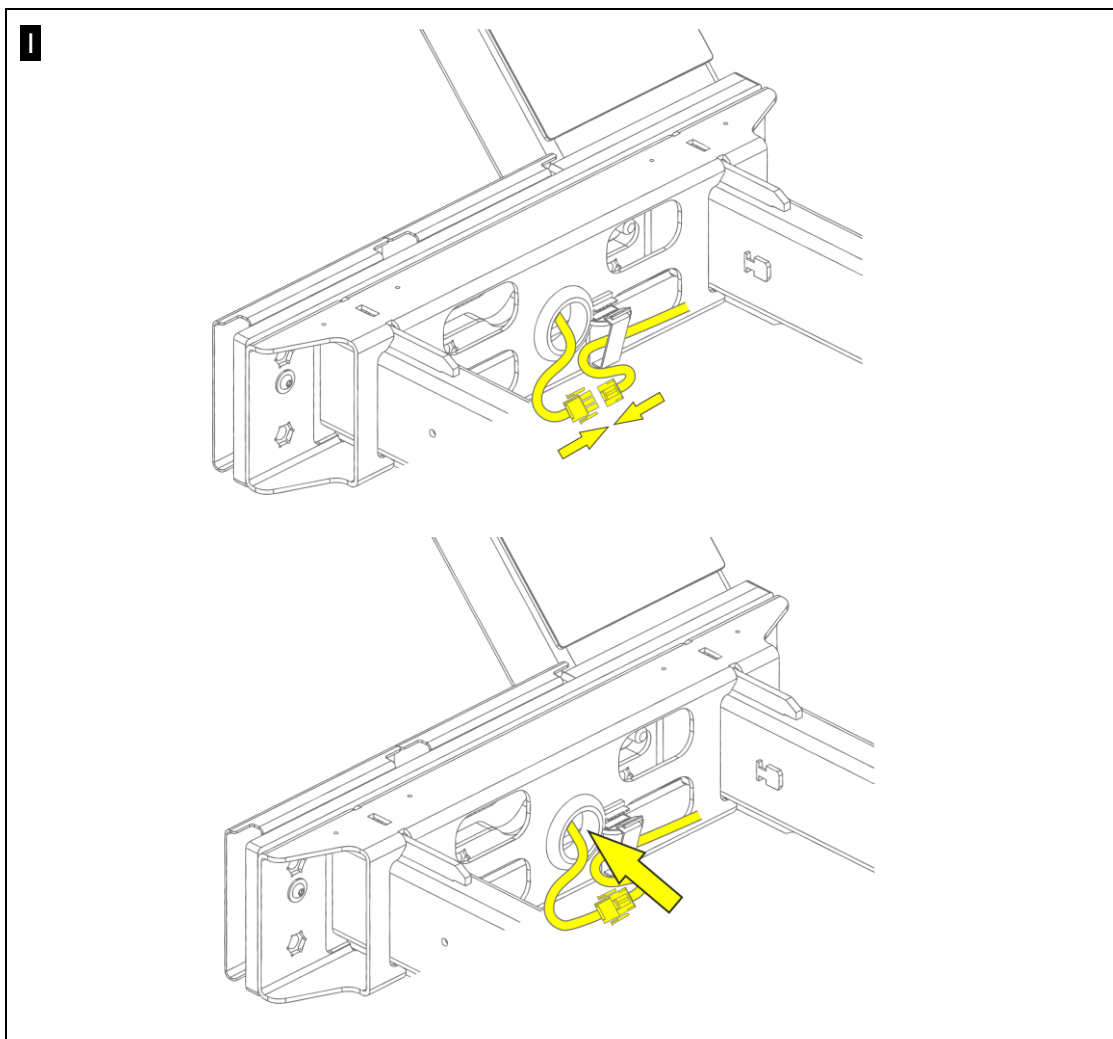


(H) Attach the selected Front frame covers to the Frame. Use bolts M5x25 (TX25), washers and plastic spacers 10x18.

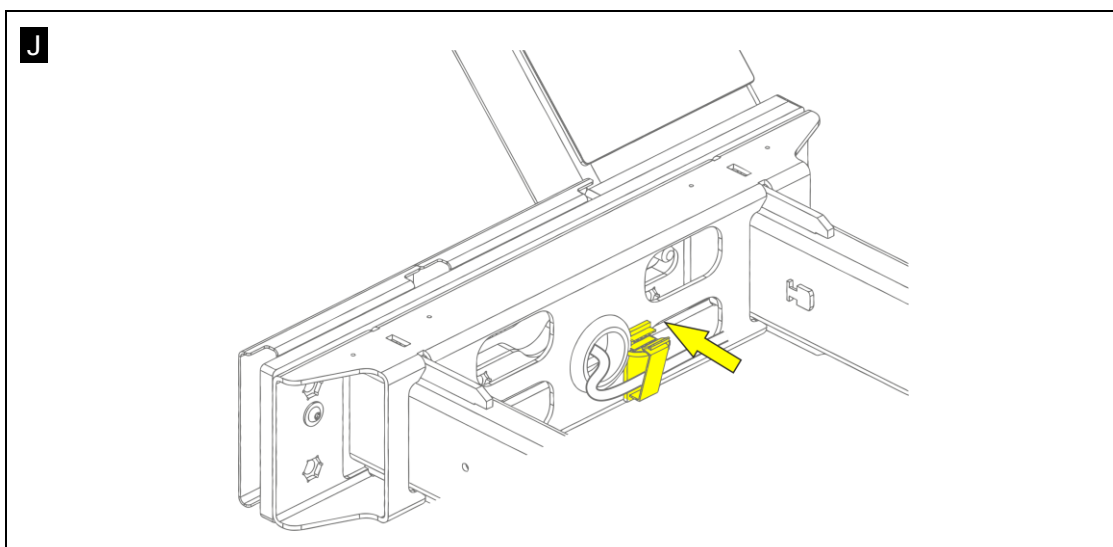
IMPORTANT: Avoid overtightening as it may result in bending of the Front frame covers.



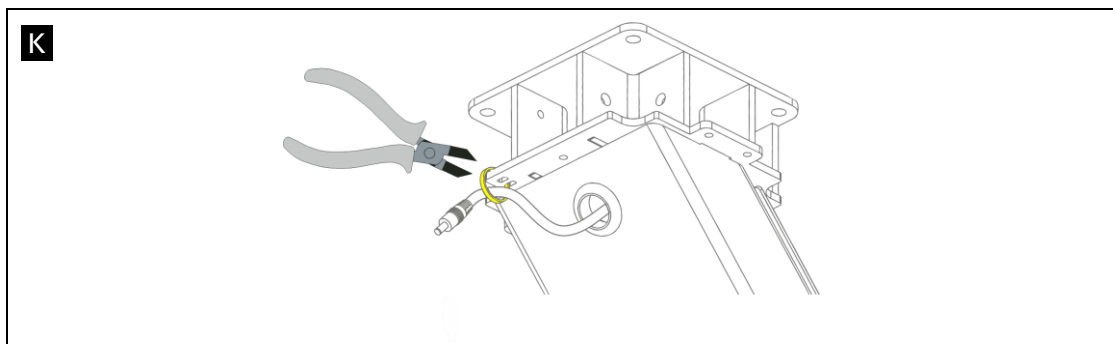
(I) Interconnect the Mains cables and push the excessive cable through the bushing into the Frame.



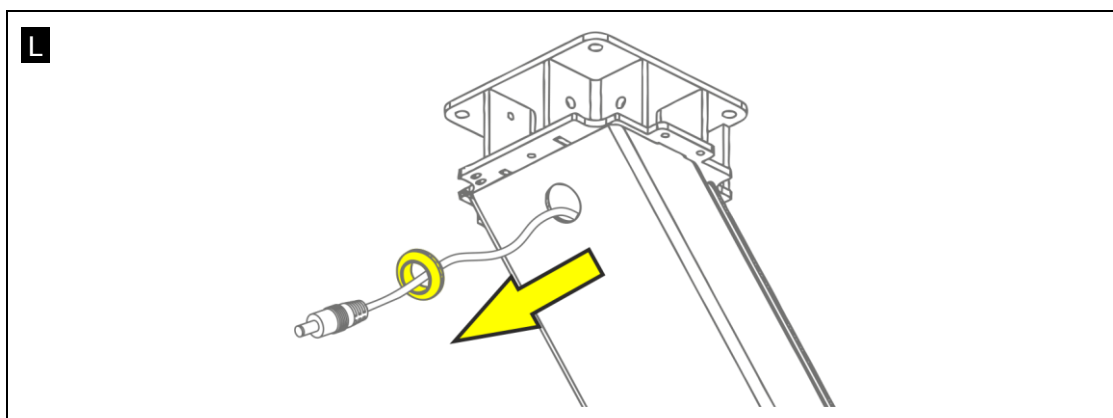
(J) Secure the position of the Mains cable by plastic clip on the inner side of the Frame.



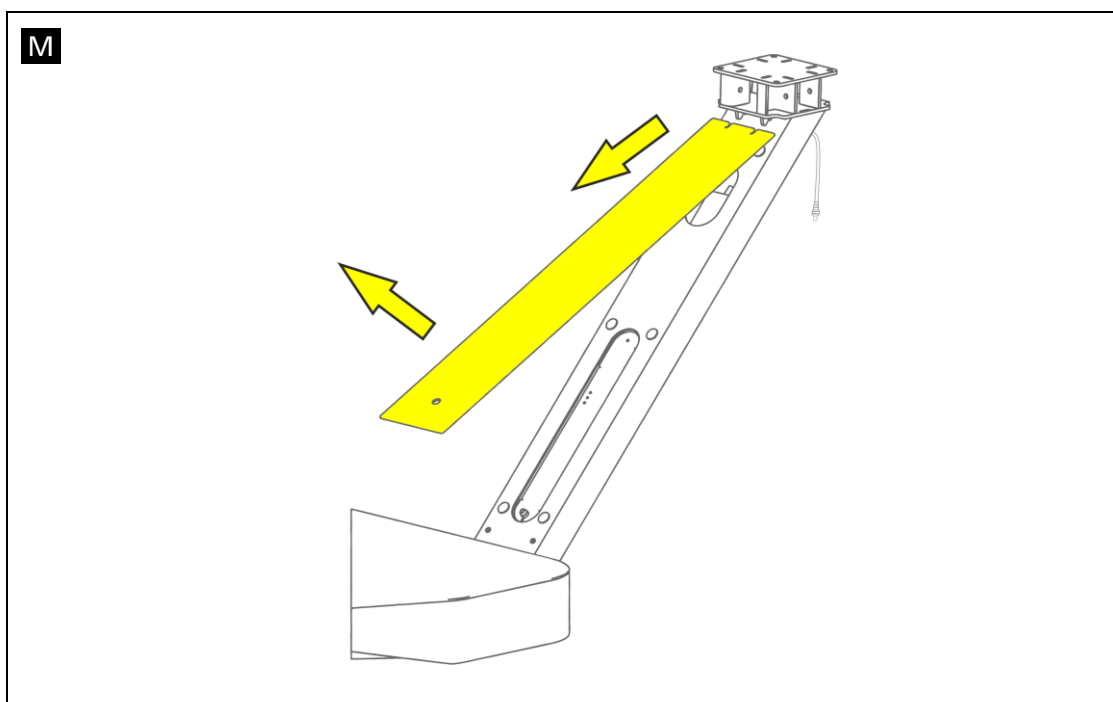
(K) Cut the cable tie located on the upper part of the Console and pull about 40 cm of the Patient off switch cable out of the Console.



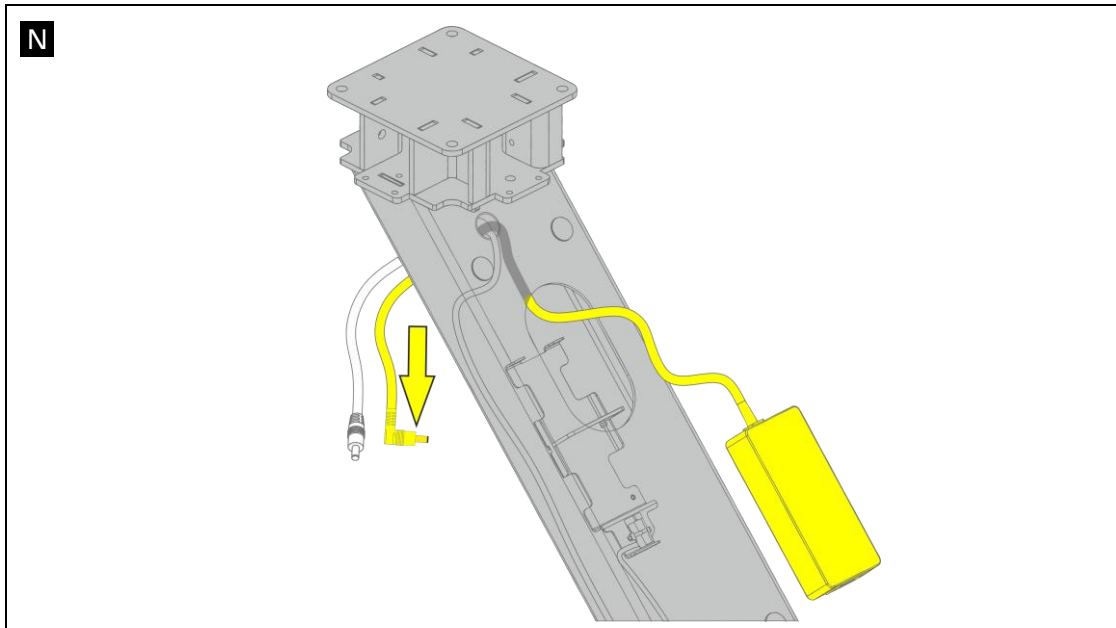
(L) Remove the bushing from the Console.



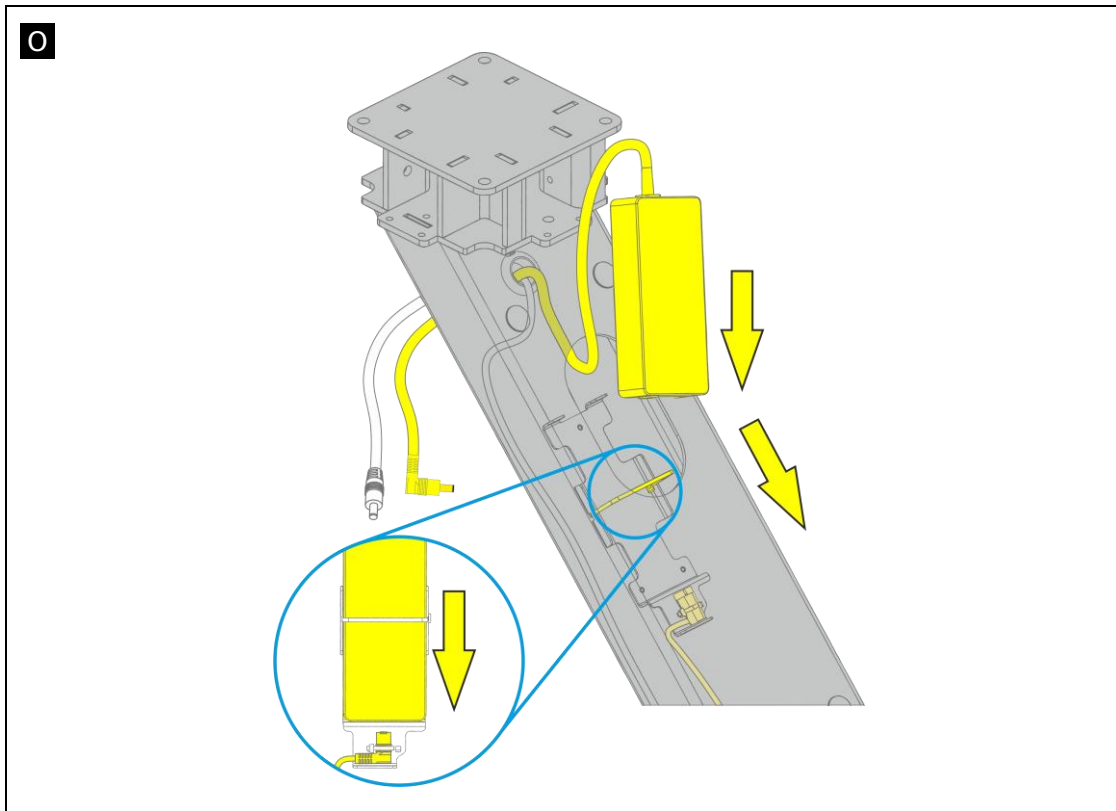
(M) Remove the Console cover.



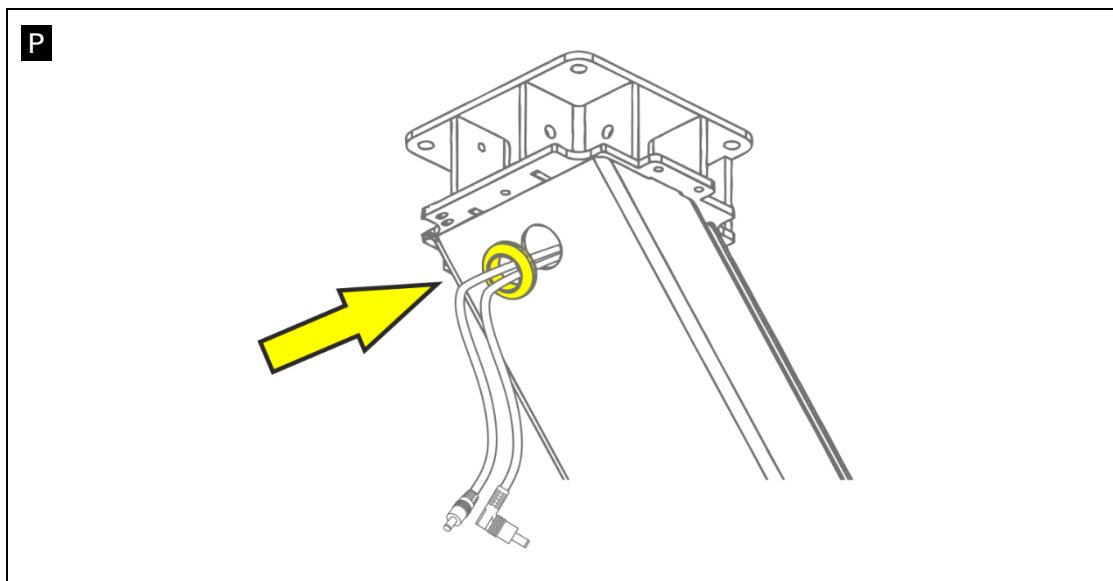
(N) Prepare the Power adaptor for the Unit. Pull the Power adaptor cable through the Console so about 40 cm of the cable sticks out of the circular opening.



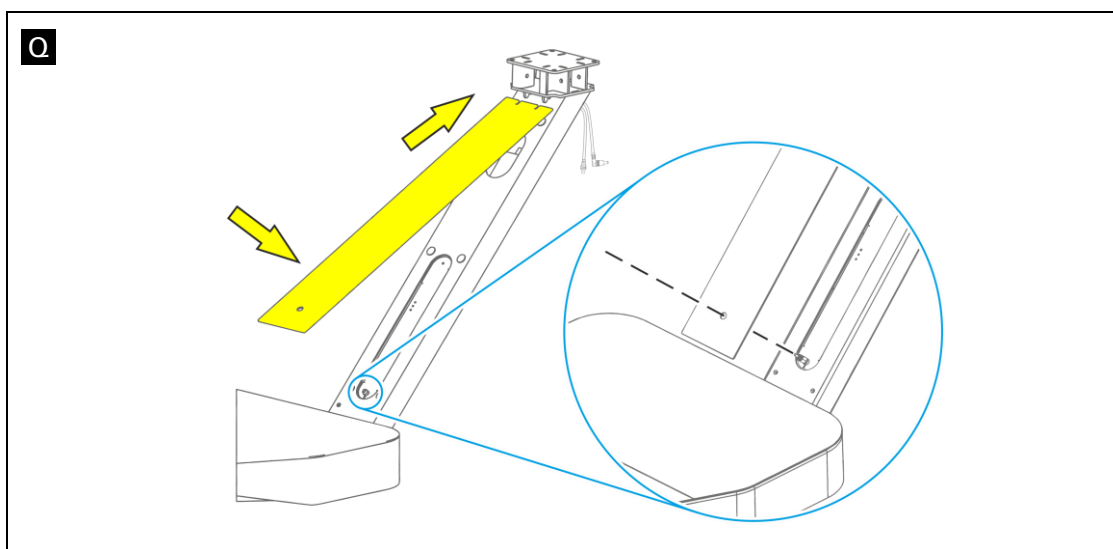
(O) Slide the Power adaptor under the cable tie and connect it to the Mains cable inside.



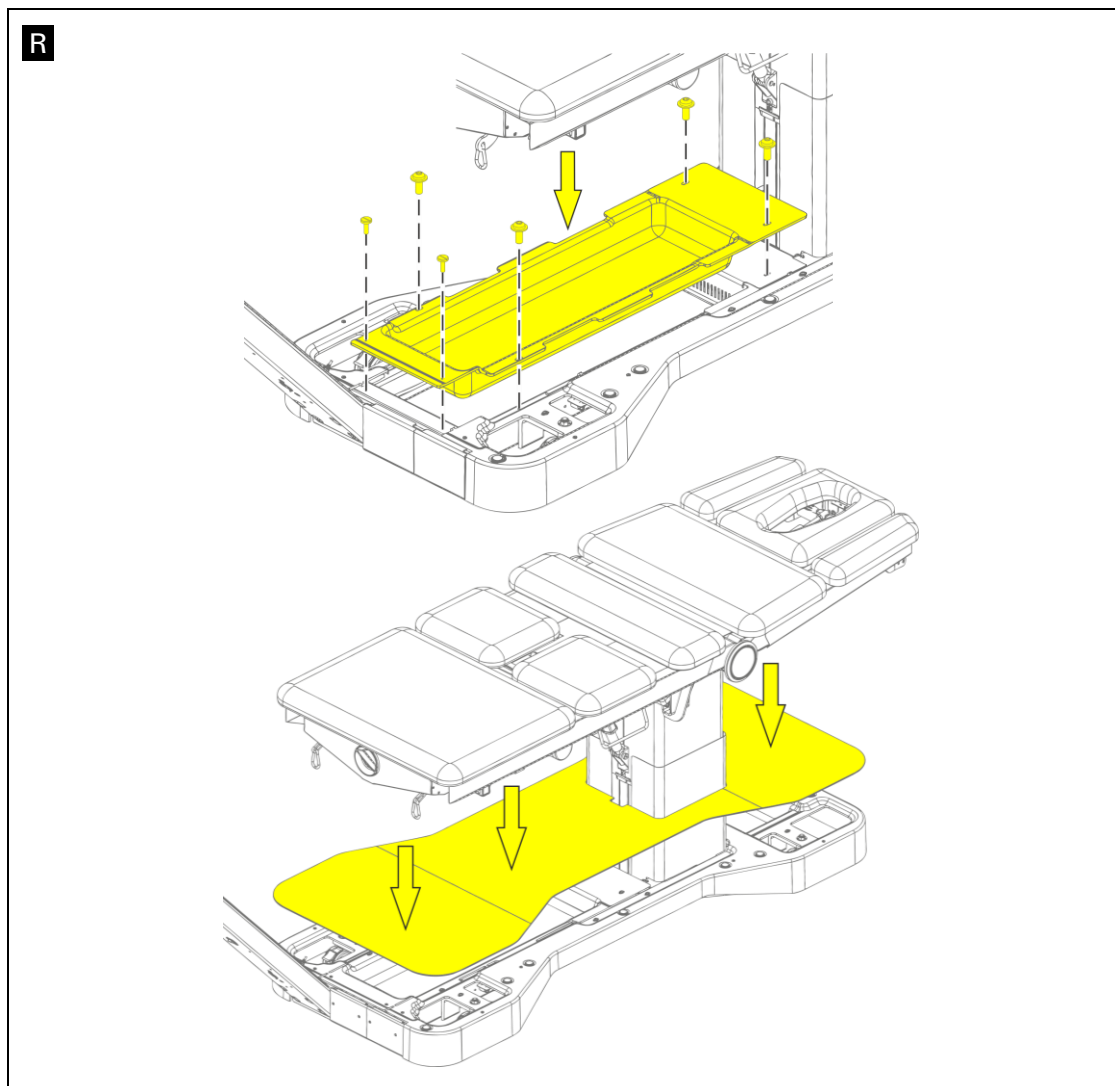
(P) Pull both cables through the bushing and place the bushing back inside the circular opening.



(Q) Place the Console cover on the Console. Slide the section with two notches under the head of the Console first, then place the rest of the cover to fit the Patient off switch connector.



(R) Place the Bottom frame cover and Top frame cover back on the Frame. Use four screws M5x12 (TX25) and two screws M3x10 (Slot).



4.2 Unit and Adapters

This section describes the assembly procedures of different Couch configurations with or without adapters. Prior to the assembly, agree with the customer on the Couch configuration, see the chapter [2 Configurations of BTL Spinal Decompression](#).

4.2.1 Couch without Adapters

UNIT PLACED LEFT

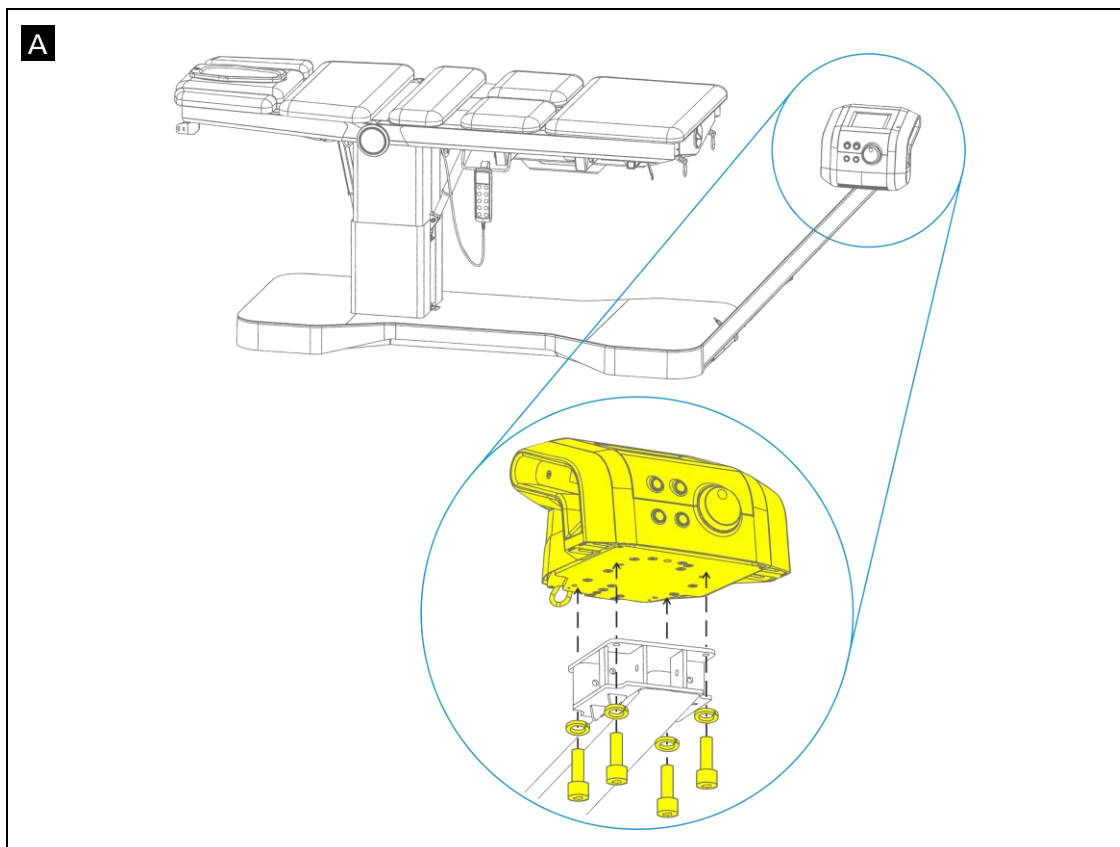
UNIT IN CENTER

UNIT PLACED RIGHT

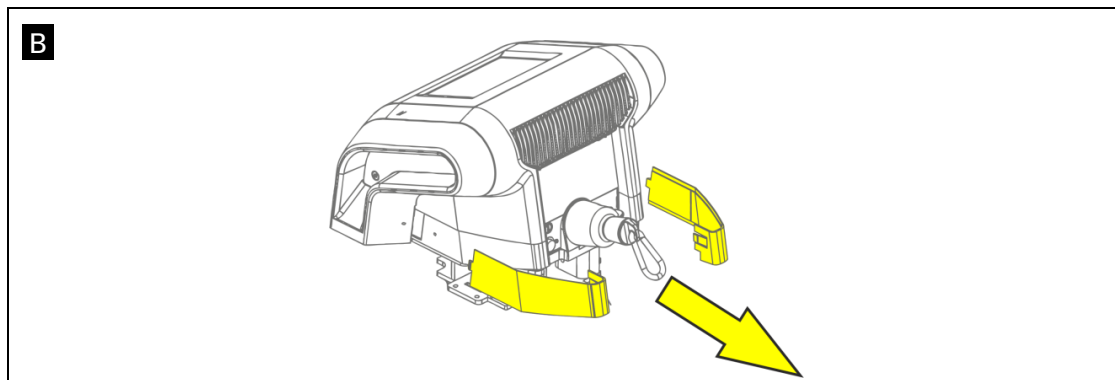
Components for the assembly can be found in the table “UNIT” in the chapter [1.3 Required Tools and Components](#).

NOTE: Configuration with Unit placed left was selected for the procedure demonstration. Procedure for other configurations is equivalent.

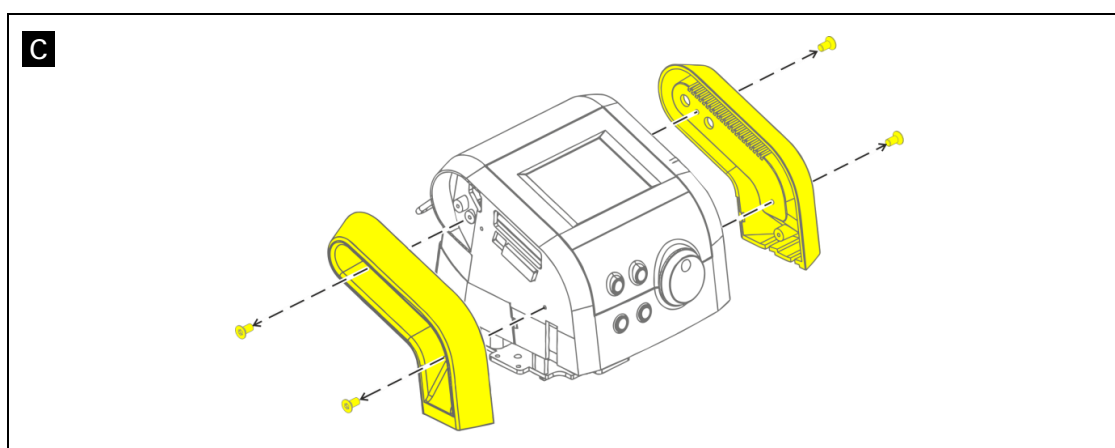
(A) Place the Unit on the Console and secure it by four screws M8x20 (HX6) with washers.



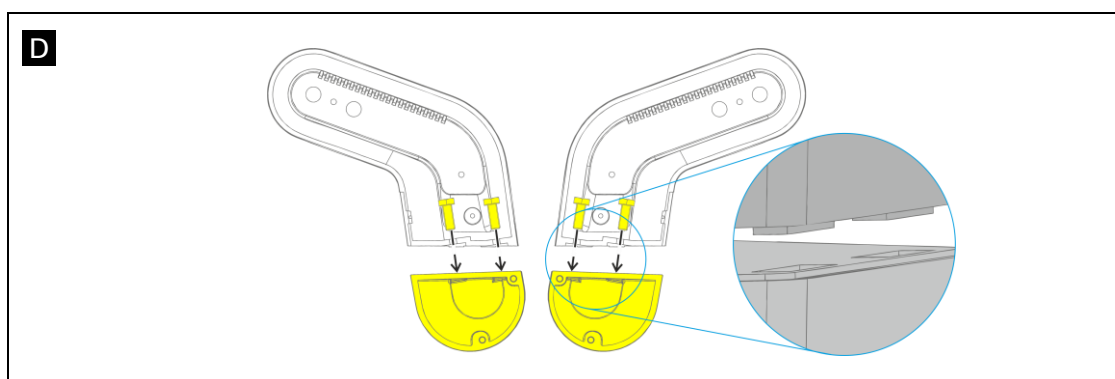
(B) Remove the Cover strips.



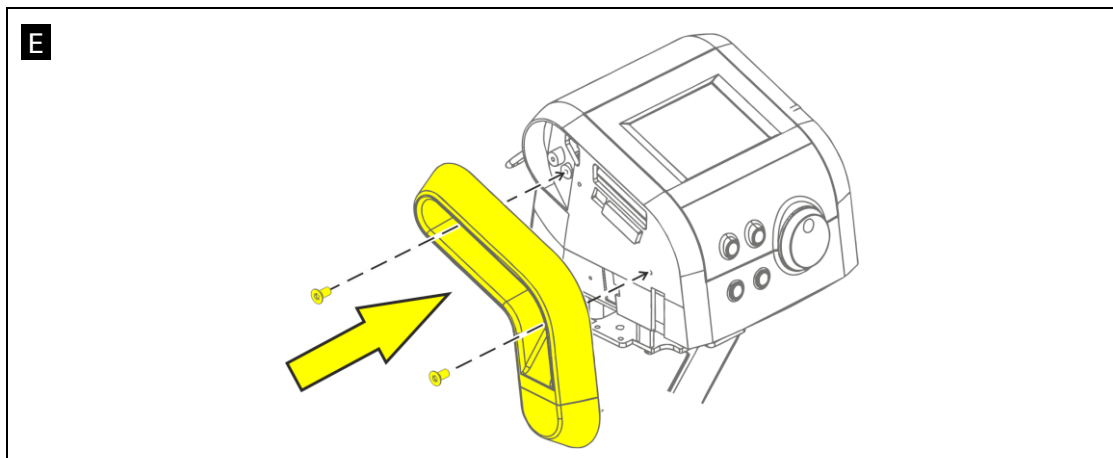
(C) Unscrew four screws M5x10 (TX25) and remove the Handles of the Unit.



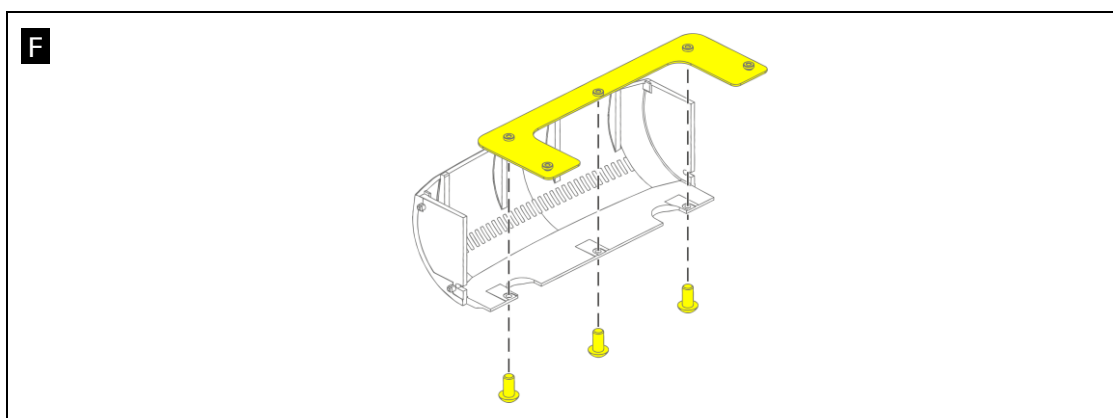
(D) Connect the Handles with their extensions using four screws M6x16 (Spanner 10 mm).



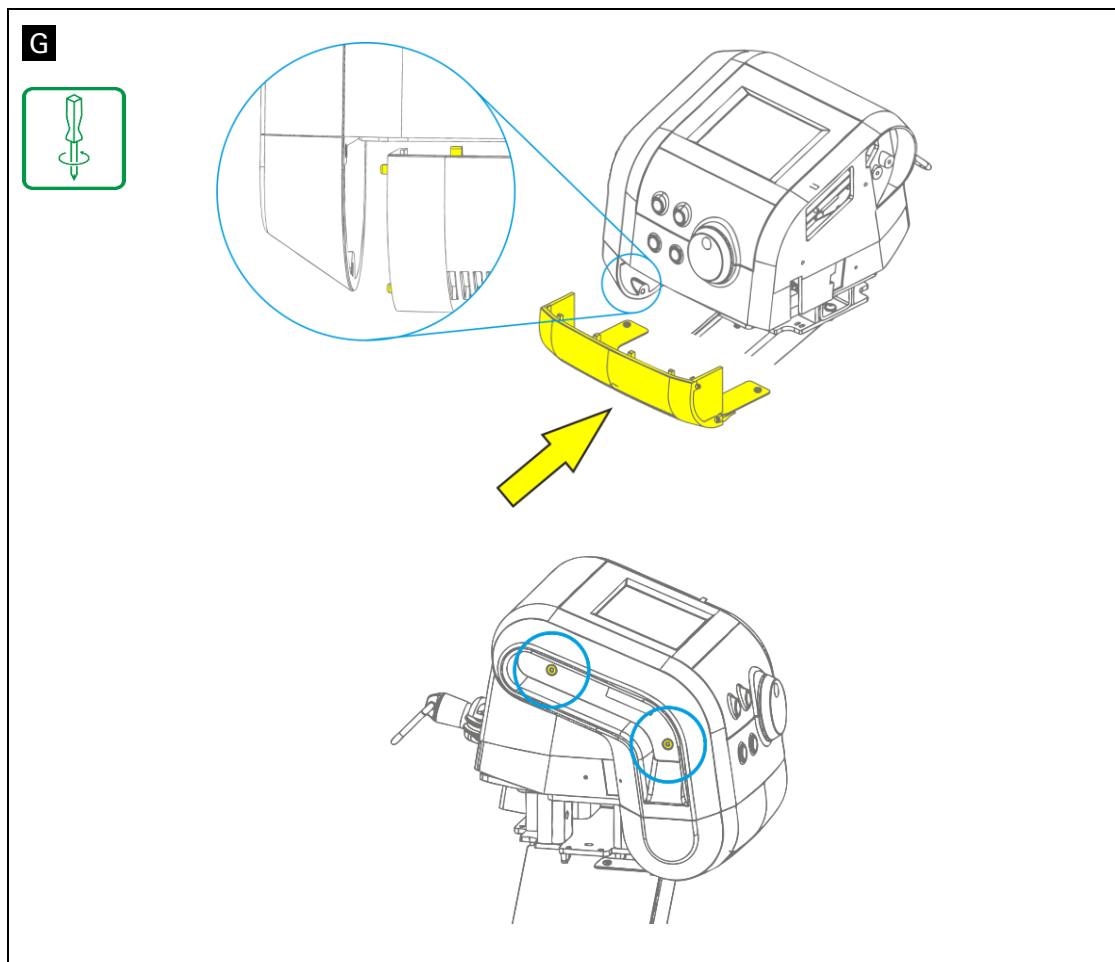
(E) Mount the left Handle to the Unit. Fasten two screws M5x10 (TX25) only half way.



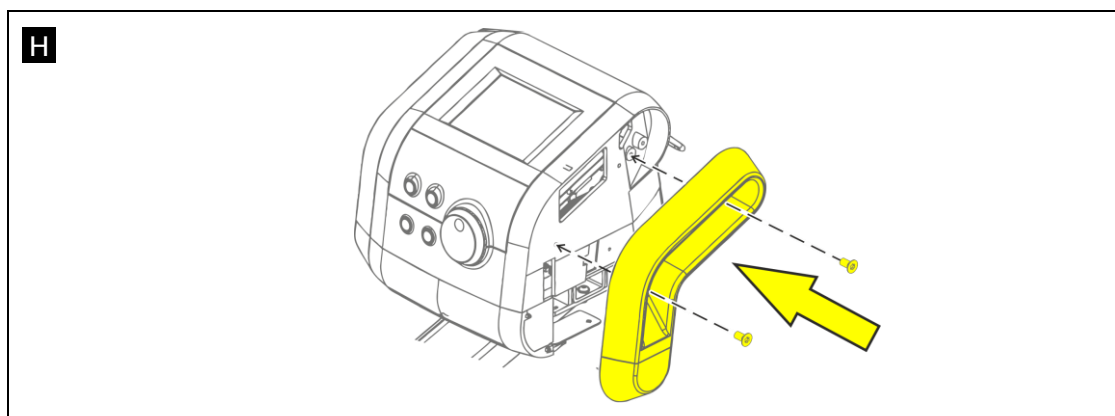
(F) Assemble the Front cover using three screws M4x8 (TX20).



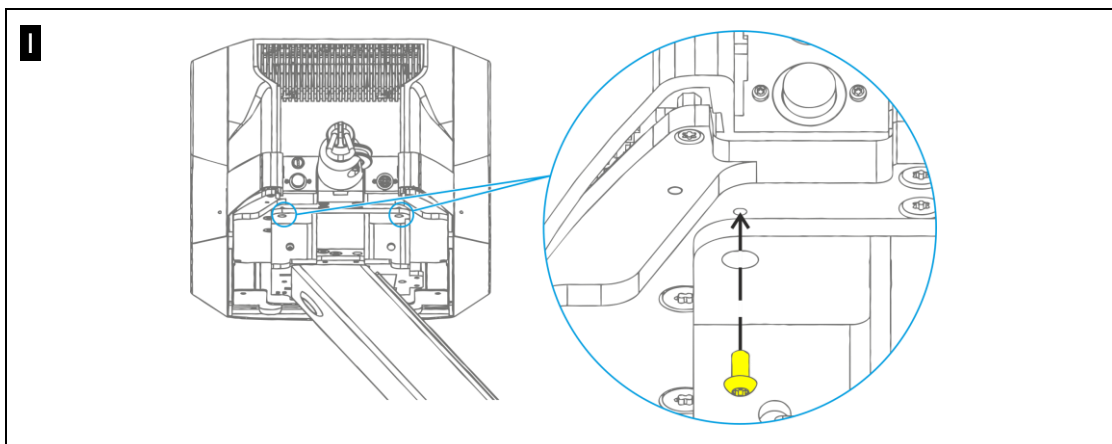
(G) Fit the Front cover in the Handle insertions. Hold the Front cover and fasten two screws M5x10 (TX25) of the Handle the whole way.



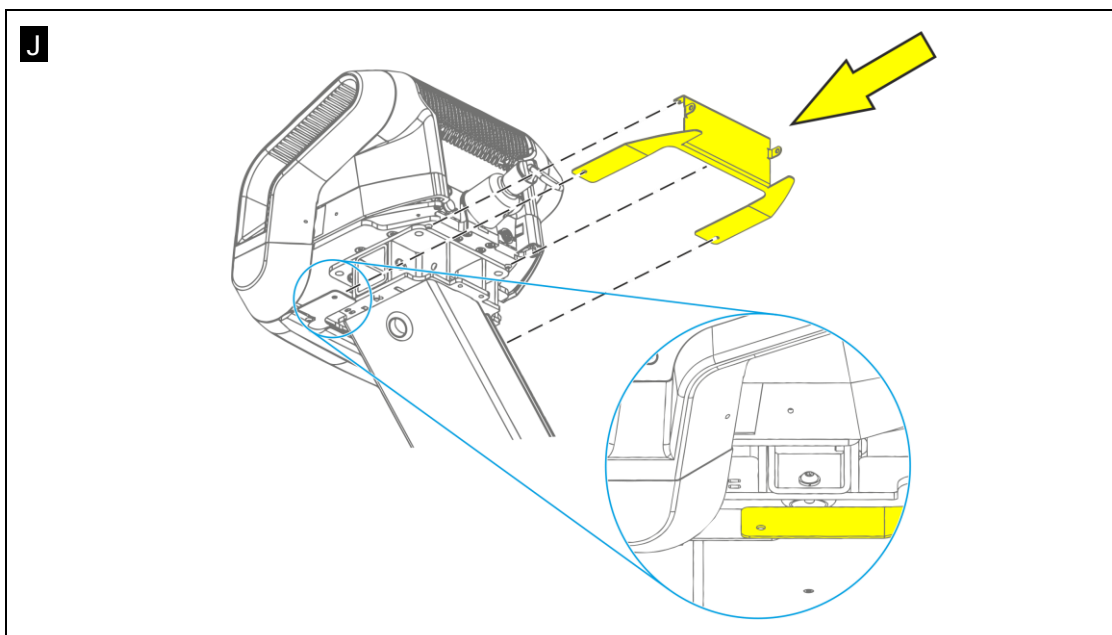
(H) Secure the second Handle using two screws M5x10 (TX25).



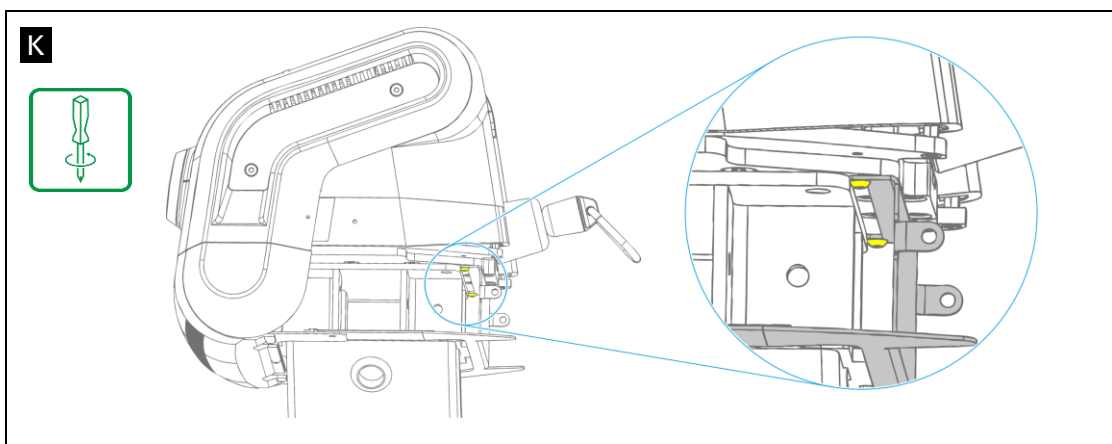
(I) Mount two screws M4x6 (TX20) from the bottom of the rear side of the Unit. Fasten the screws only half way.



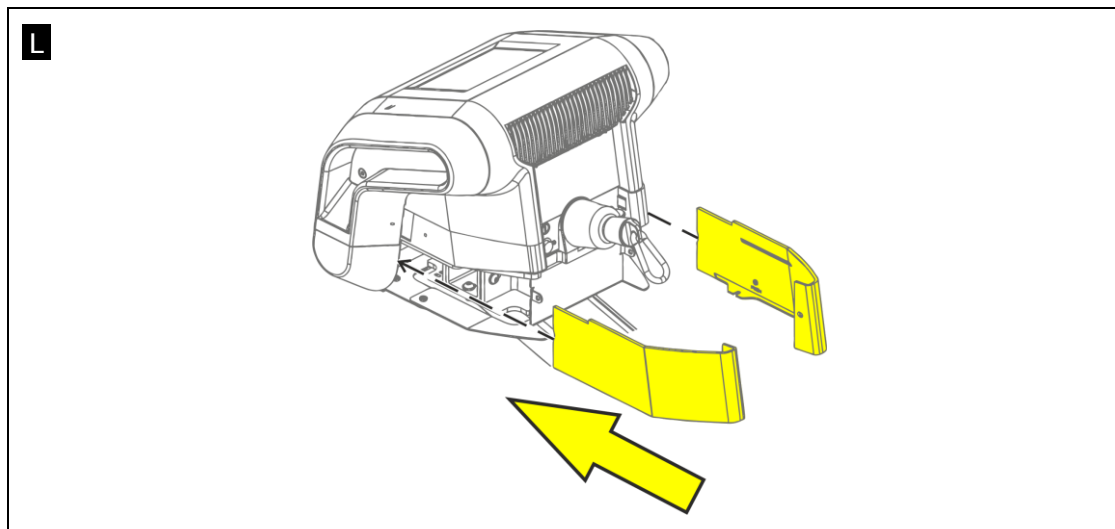
(J) Insert the Back cover so it rests on top of the Front cover.



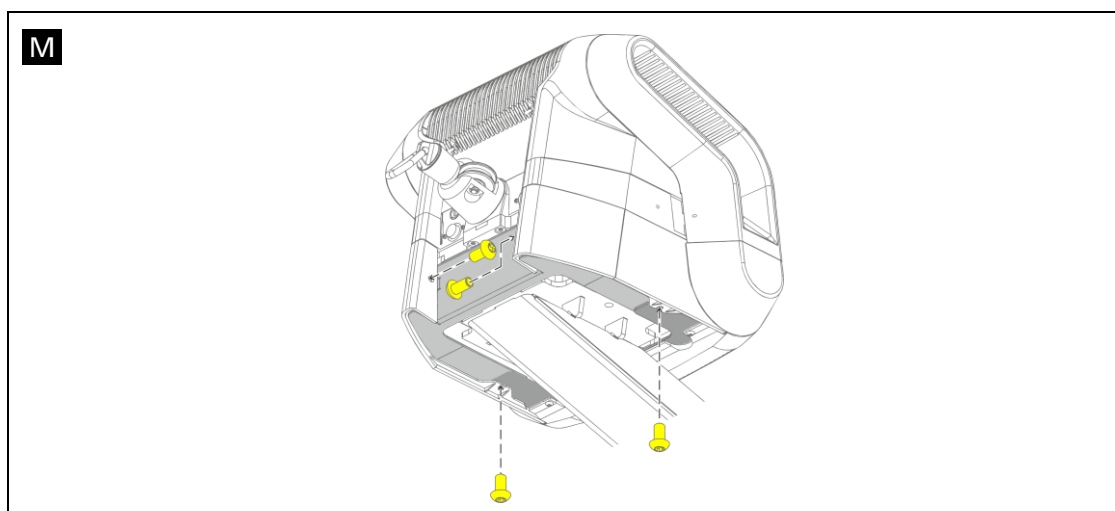
(K) Fasten two screws M4x6 (long TX 20) the whole way.



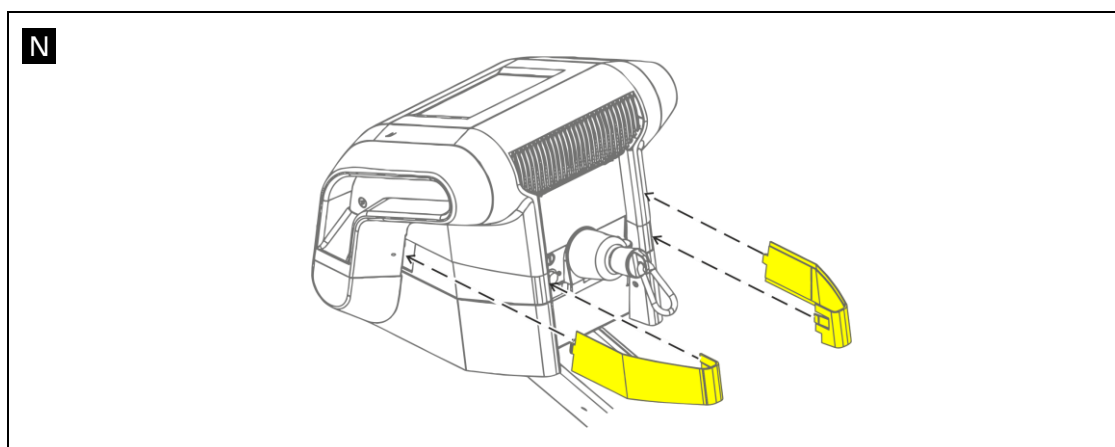
(L) Slide the Profiles into the designated slits.



(M) Secure the Profiles by four screws M4x8 (TX20).



(N) Slide the Cover strips into the designated slits.



4.2.2 Couch with SIT

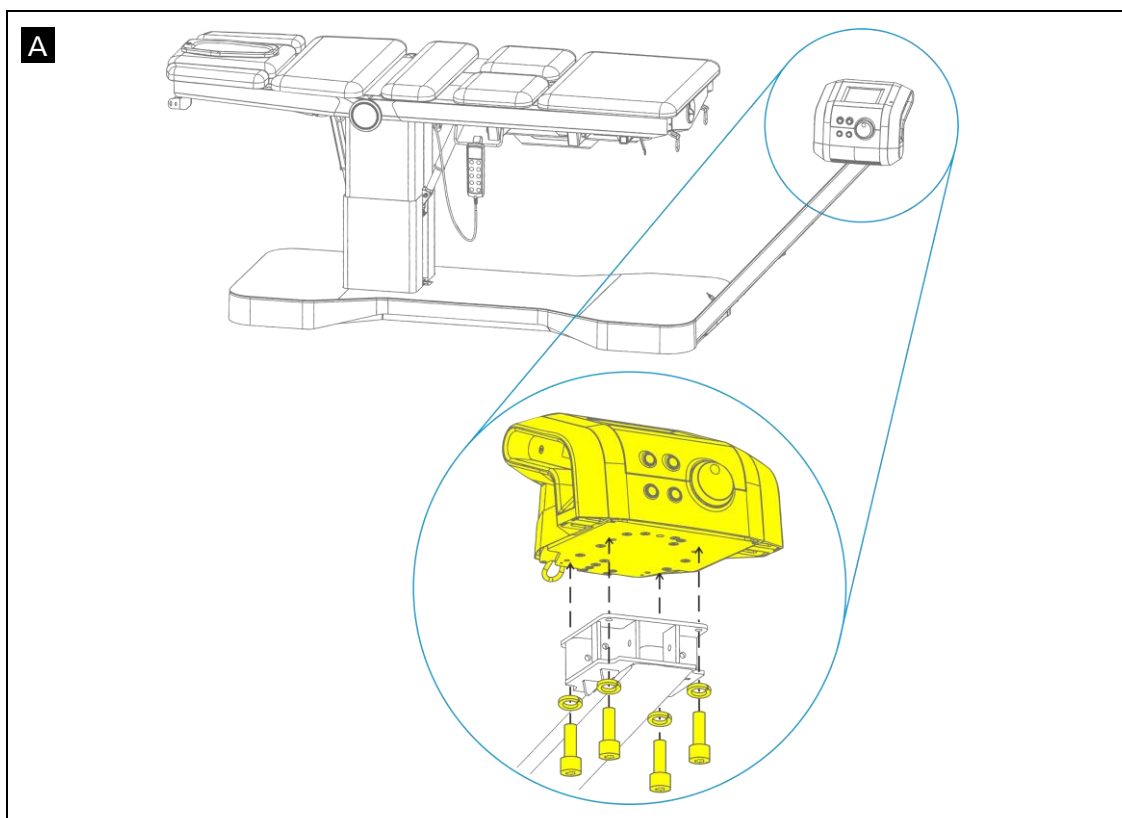
UNIT PLACED LEFT – SIT FROM BEHIND

UNIT PLACED RIGHT – SIT FROM BEHIND

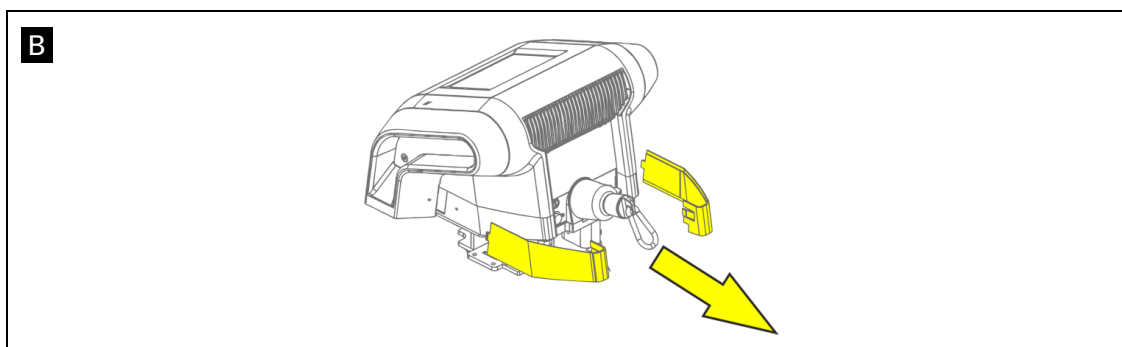
Components for the assembly can be found in the table “UNIT” and “SIT” in the chapter [1.3 Required Tools and Components](#).

NOTE: Configuration with Unit placed left was selected for the procedure demonstration. Procedure for other configurations is equivalent.

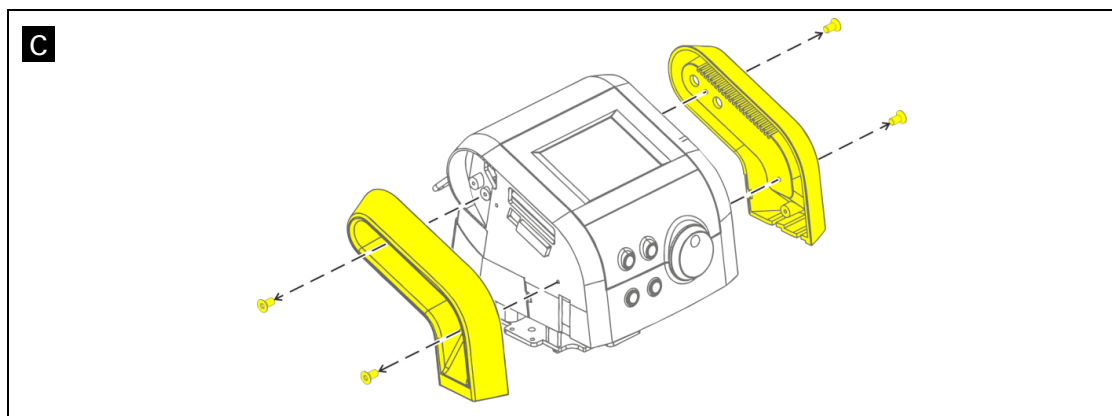
(A) Place the Unit on the Console and secure it by four screws M8x20 (HX6) with washers.



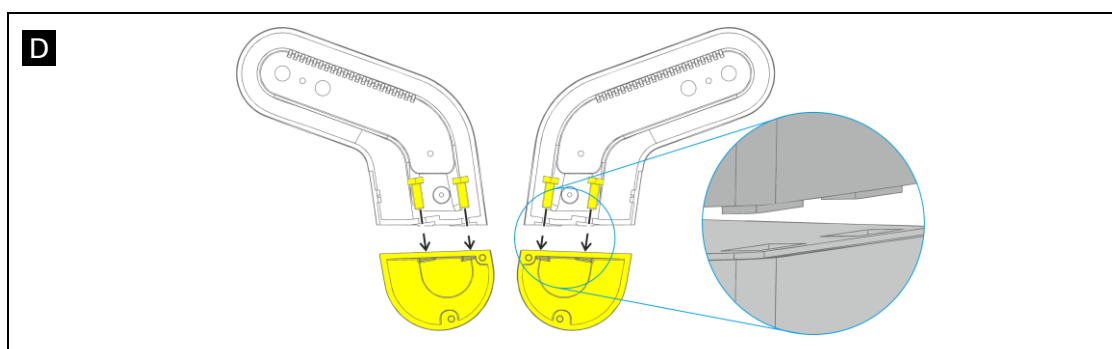
(B) Remove the Cover strips.



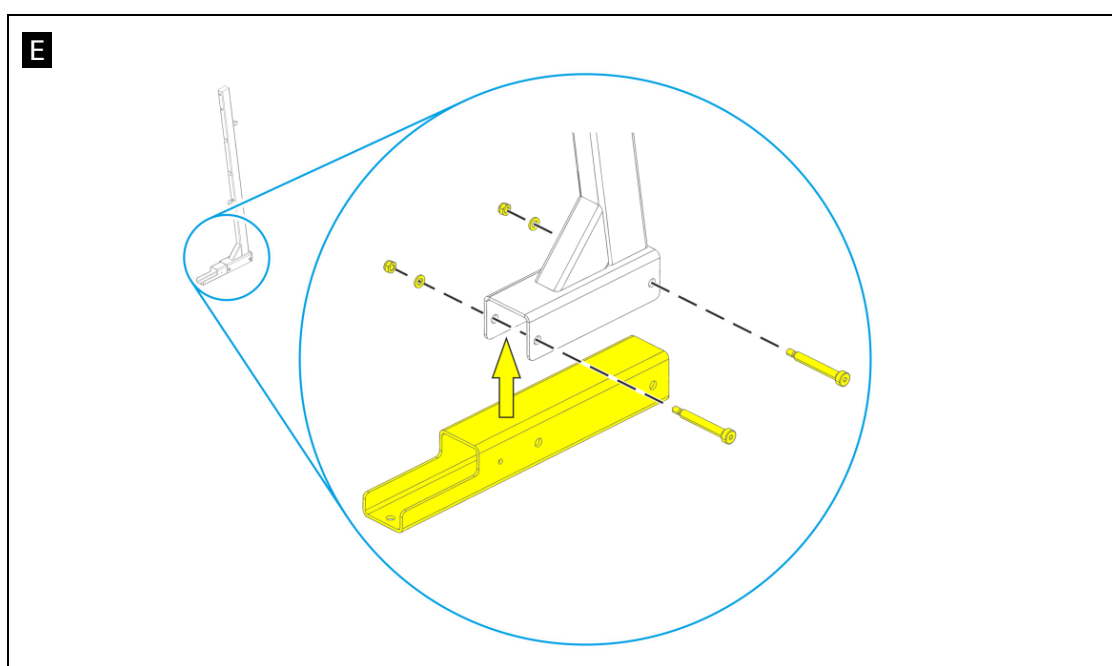
(C) Unscrew four screws M5x10 (TX25) and remove the Handles of the Unit.



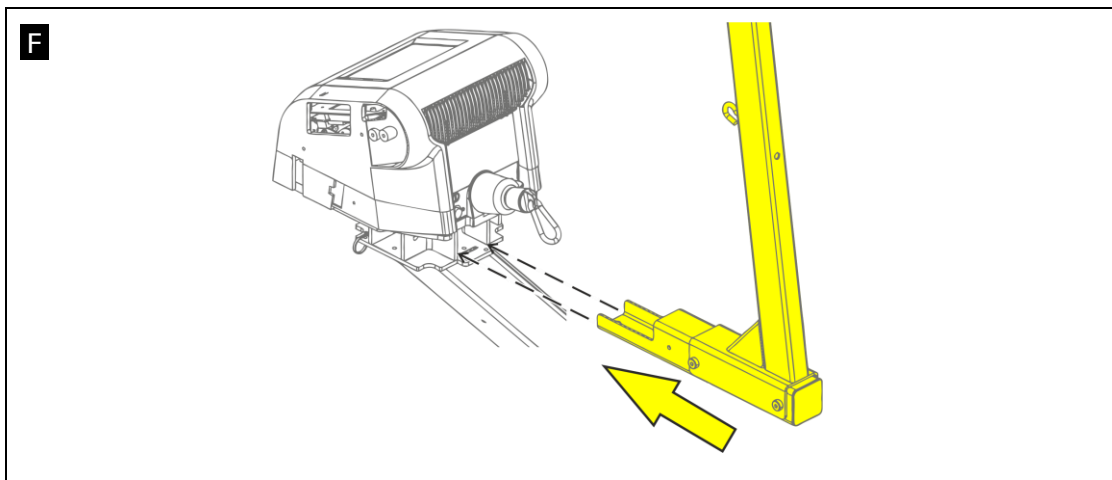
(D) Connect the Handles with their extensions using four screws M6x16 (Spanner 10 mm).



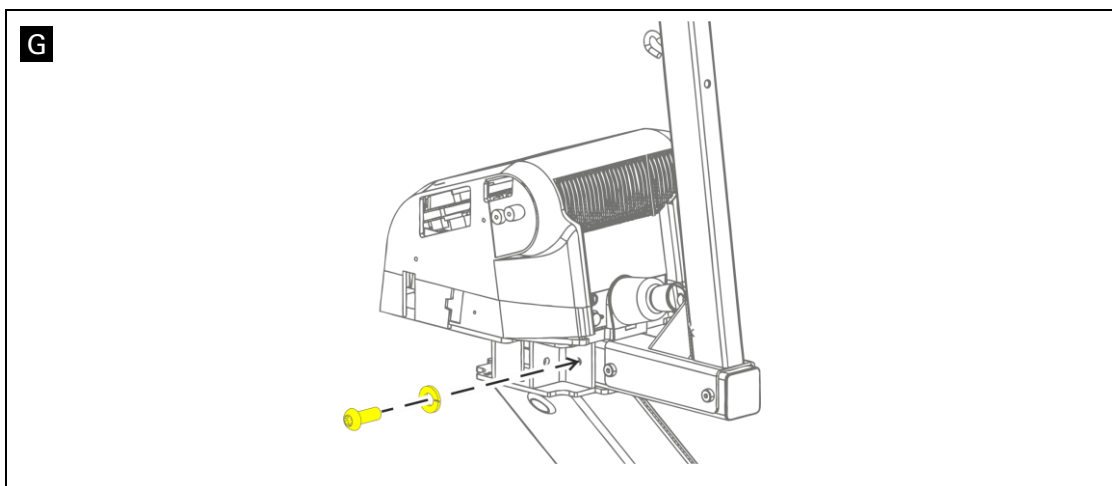
(E) Assemble the Lower and Middle beam of the SIT using two bolts M6x55 (HX6) with washers and nuts M6.



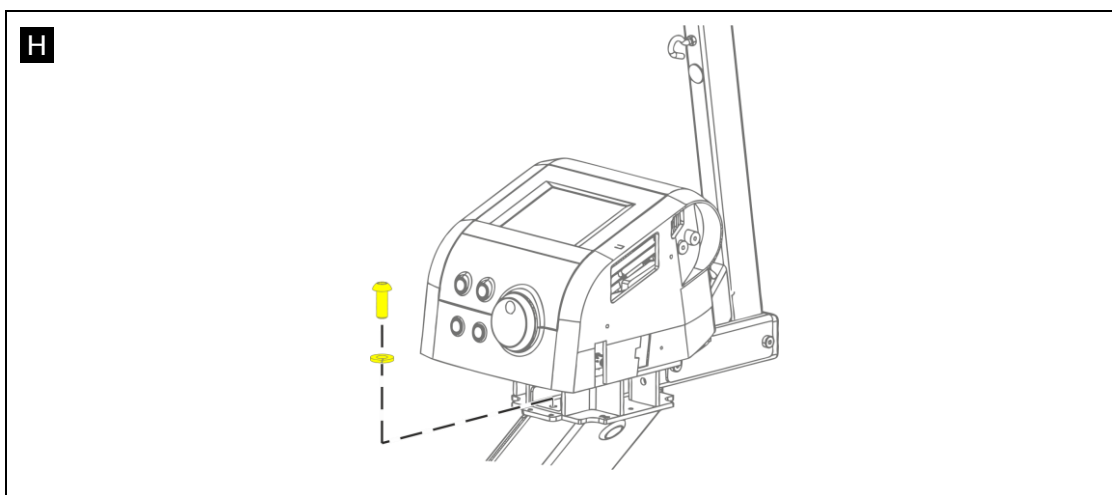
(F) Insert the SIT inside the Console.



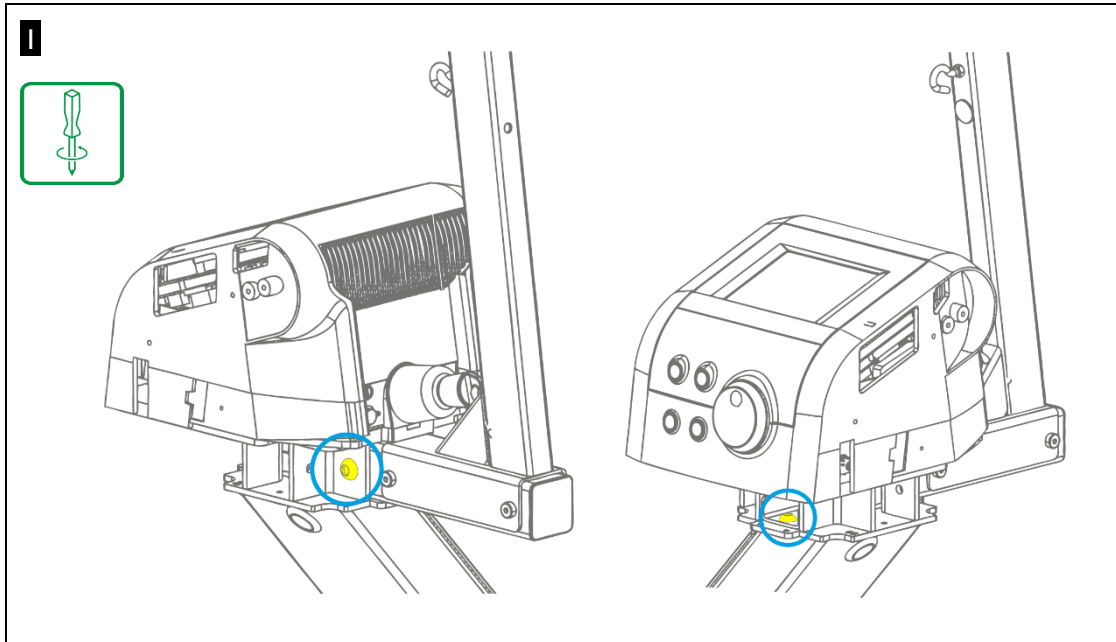
(G) Secure the SIT by the screw M6x12 (TX30) with washer M6. Fasten the screw only half way.



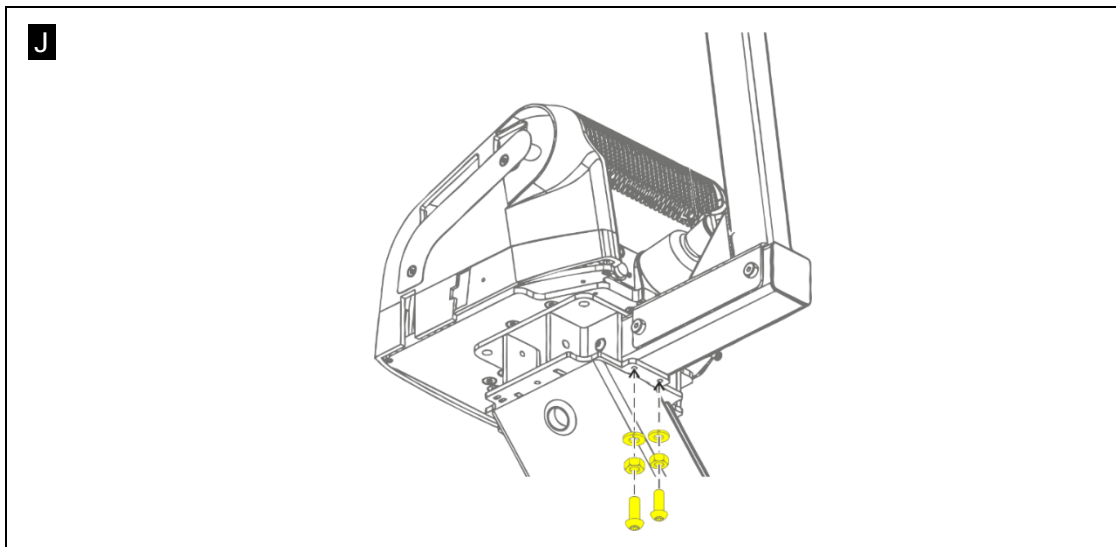
(H) Secure the front part of the SIT by the screw M6x12 (TX30) with washer M6. Fasten the screw only half way.



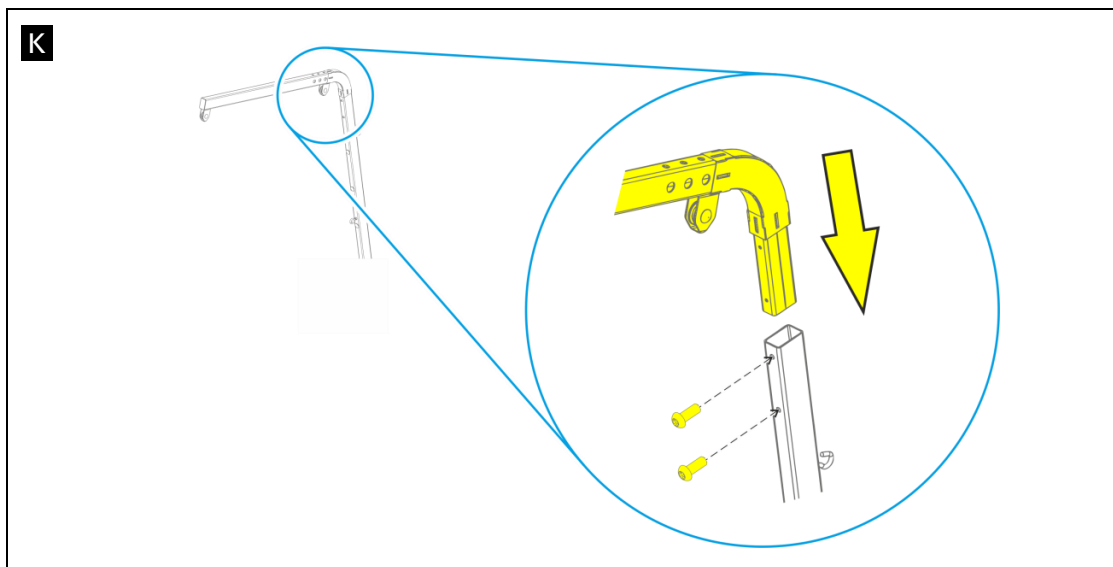
(I) Fasten two screws M6x12 (TX30) the whole way.



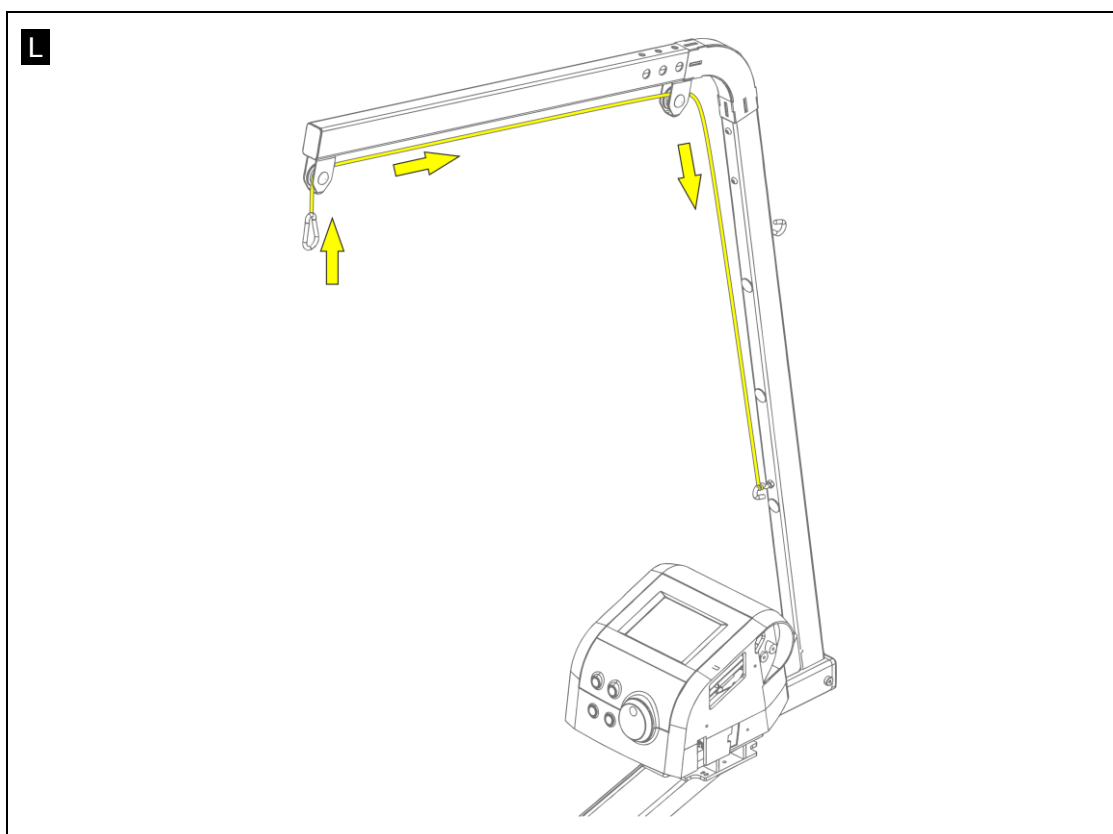
(J) Secure the SIT by two screws M6x16 (TX30) and contra nuts M6 with washers. After fastening the screws completely, tighten also the contra nuts M6 (Spanner 10 mm).



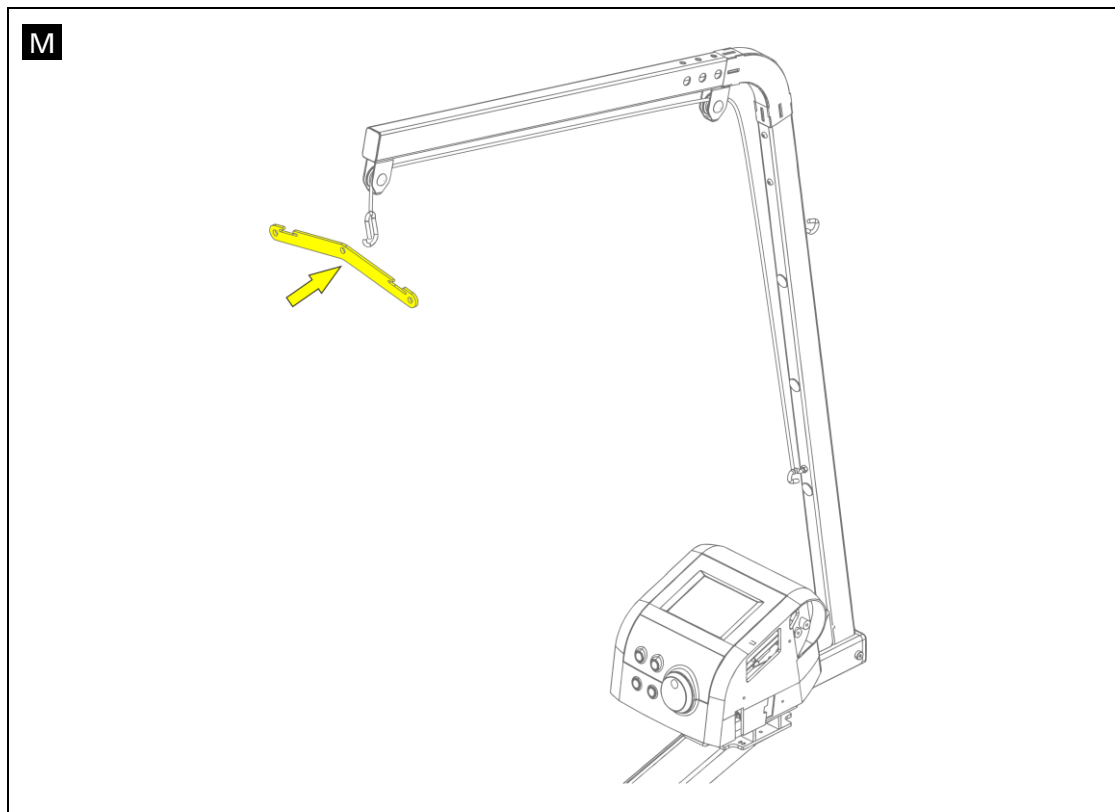
(K) Mount the Upper beam on the Middle beam of the SIT and secure it by two screws M6x16 (TX30).



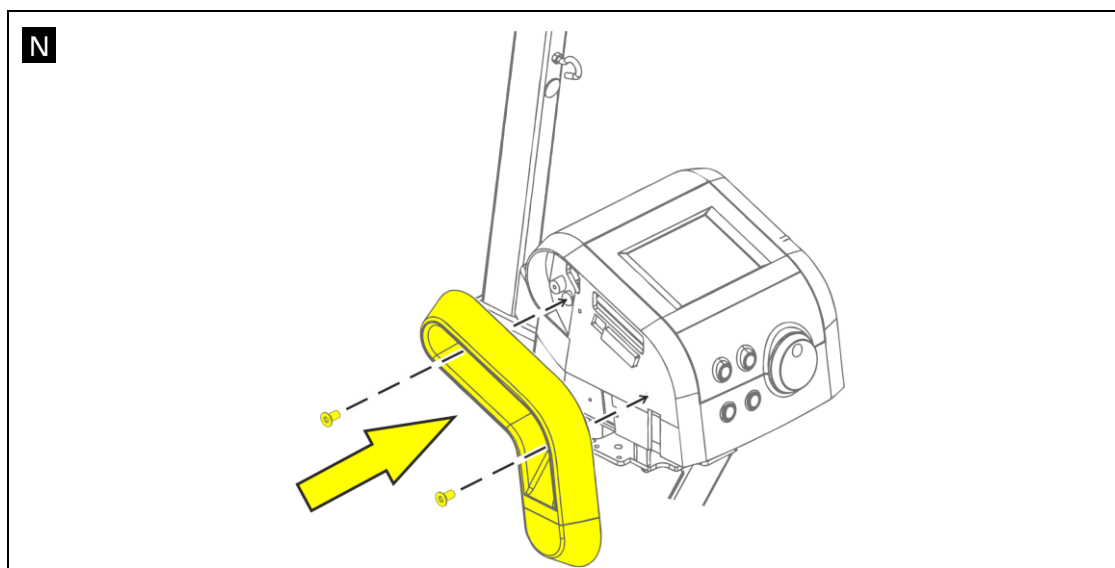
(L) Insert the string with carabiner and fix it to the SIT.



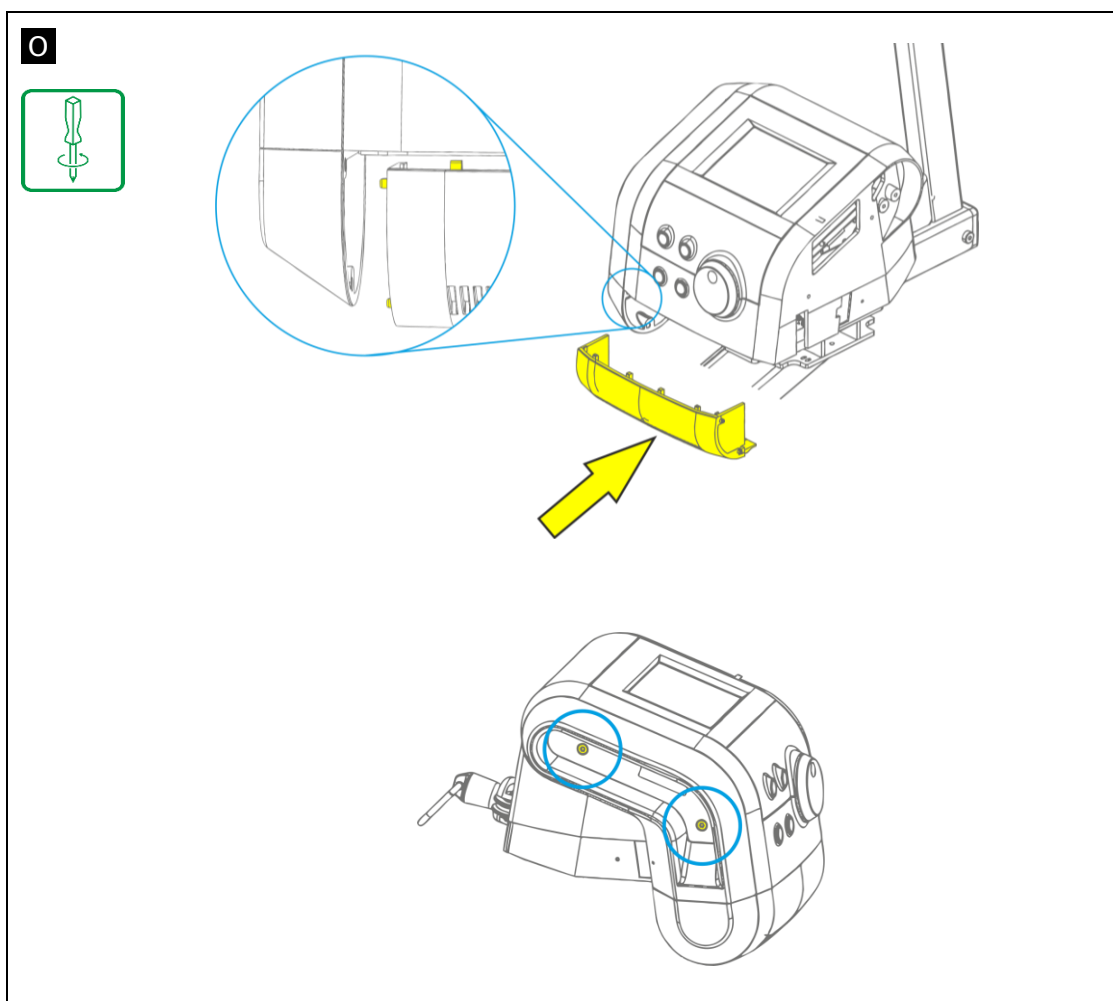
(M) Insert the Spreader bar into the carabiner.



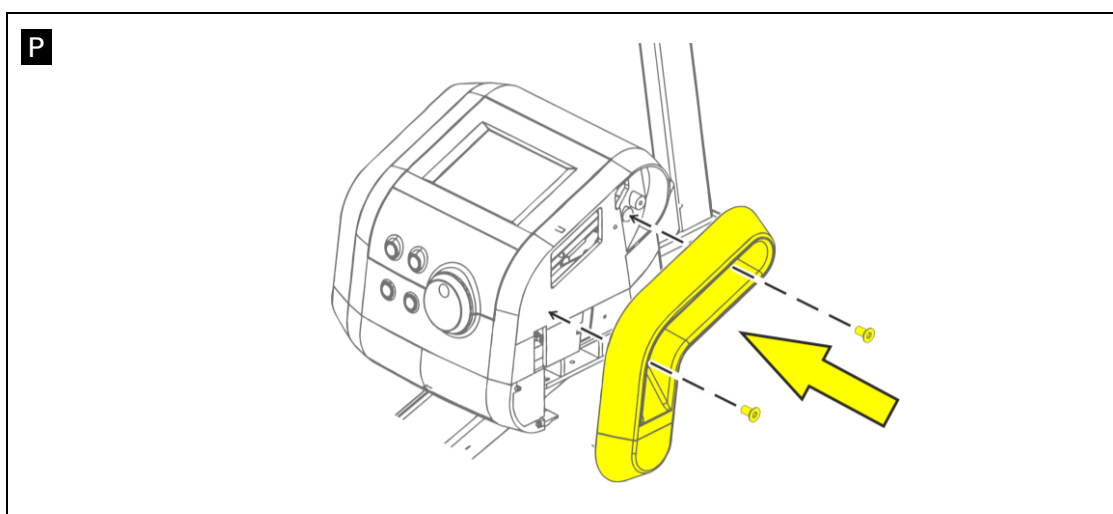
(N) Mount the left Handle to the Unit. Fasten two screws M5x10 (TX25) only half way.



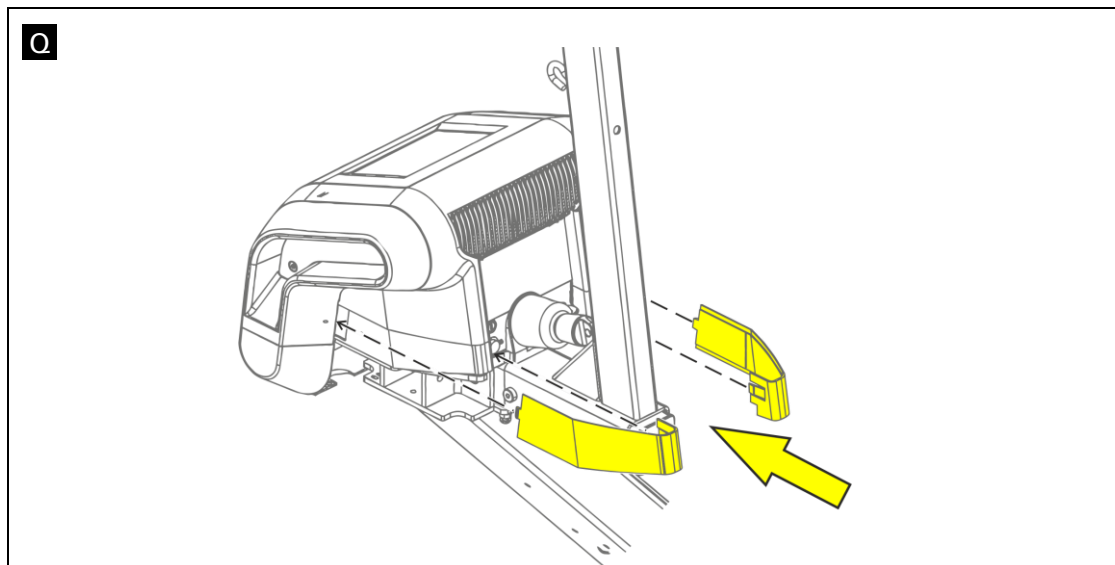
(O) Fit the Front cover in the Handle insertions. Hold the Front cover and fasten two screws M5x10 (TX25) of the Handle the whole way.



(P) Fasten two screws M5x10 (TX25) of the second Handle to secure the position of the Front cover.



(Q) Slide the Cover strips into the designated slits.



UNIT PLACED LEFT – SIT FROM LEFT

UNIT IN CENTER – SIT FROM LEFT

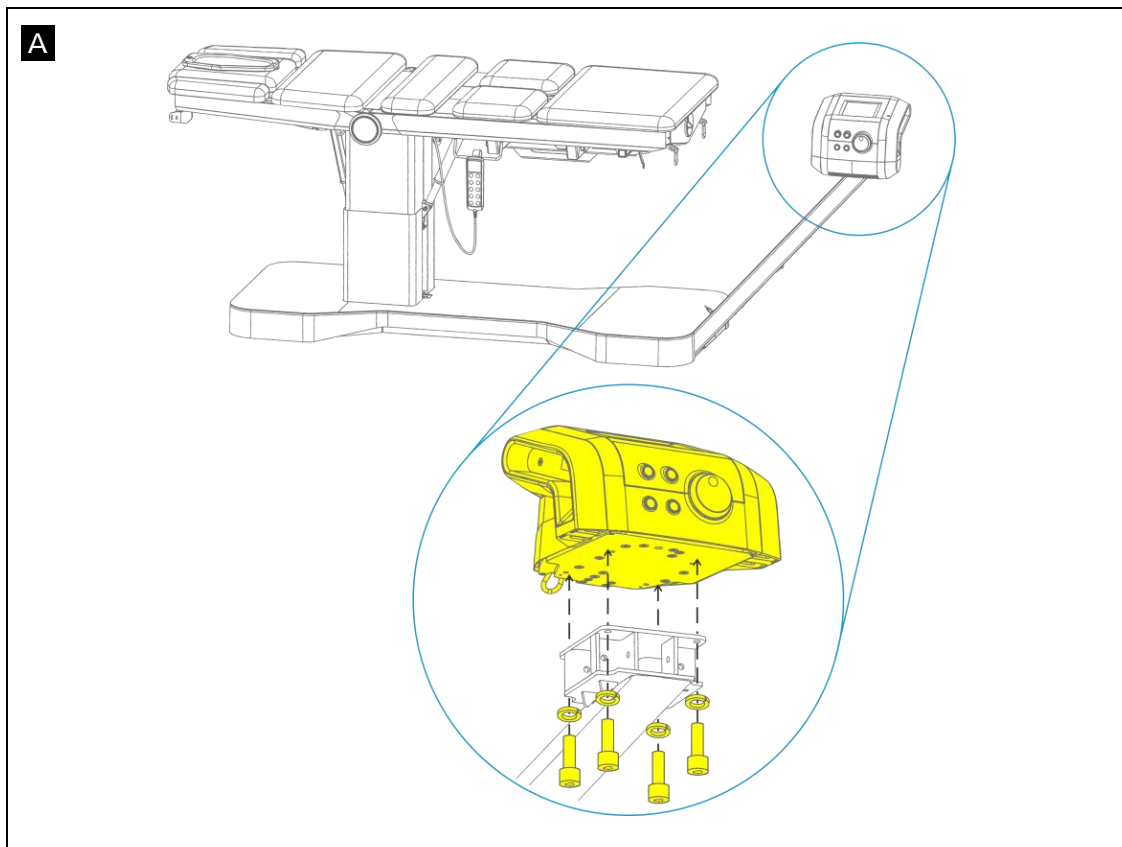
UNIT IN CENTER – SIT FROM RIGHT

UNIT PLACED RIGHT – SIT FROM RIGHT

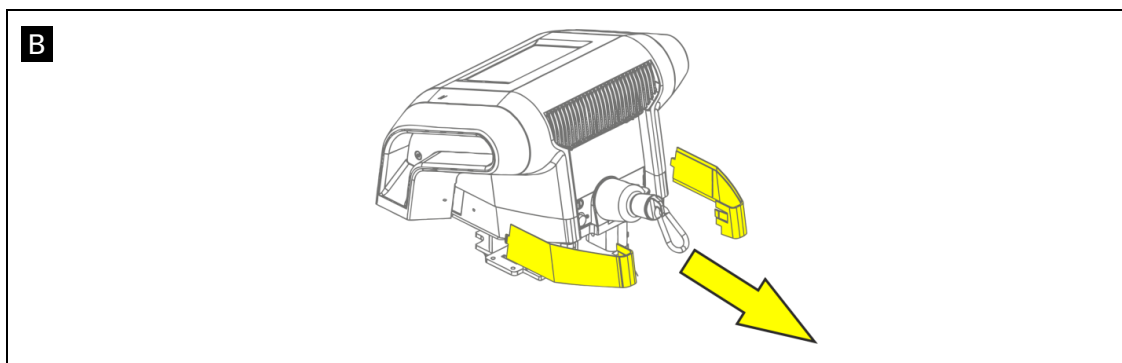
Components for the assembly can be found in the table “UNIT” and “SIT” in the chapter [1.3 Required Tools and Components](#).

NOTE: Configuration with Unit placed left was selected for the procedure demonstration. Procedure for other configurations is equivalent.

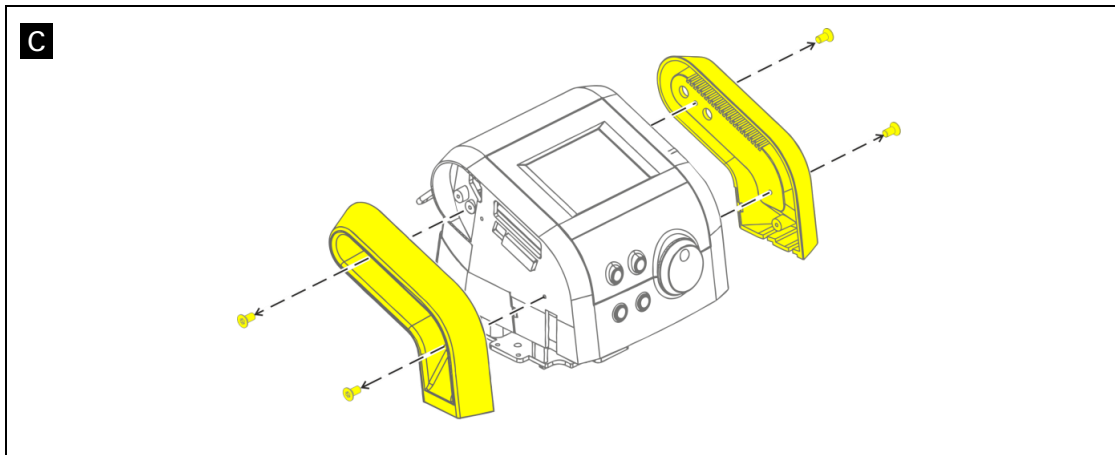
(A) Place the Unit on the Console and secure it by four screws M8x20 (HX6) with washers.



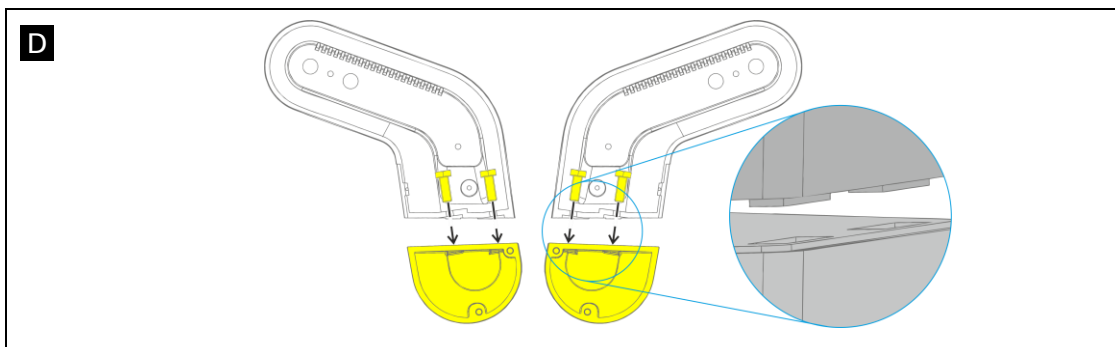
(B) Remove the Cover strips.



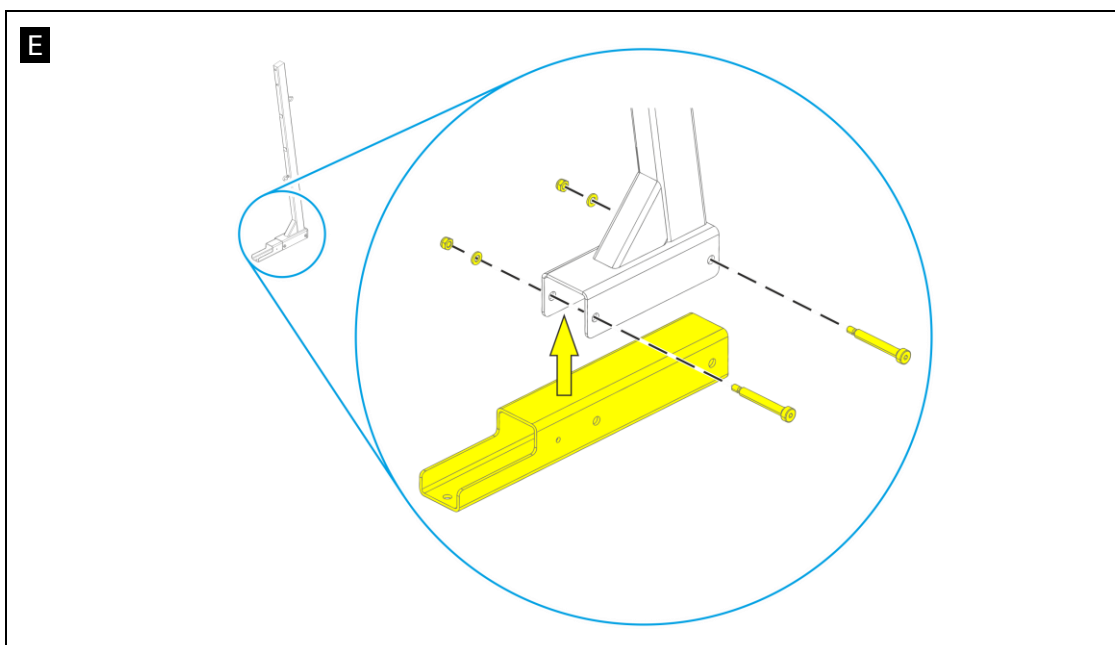
(C) Unscrew four screws M5x10 (TX25) and remove the Handles of the Unit.



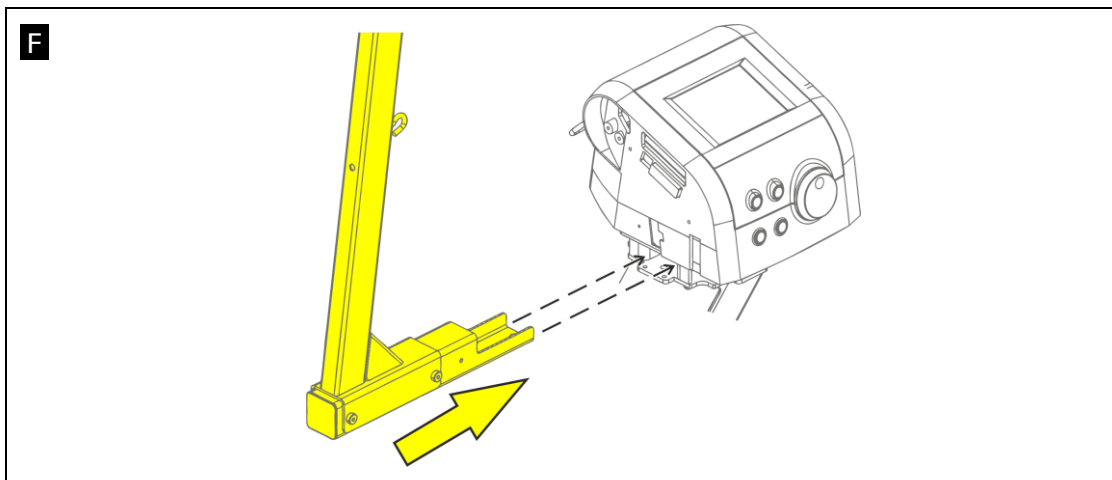
(D) Connect the Handles with their extensions using four screws M6x16 (Spanner 10 mm).



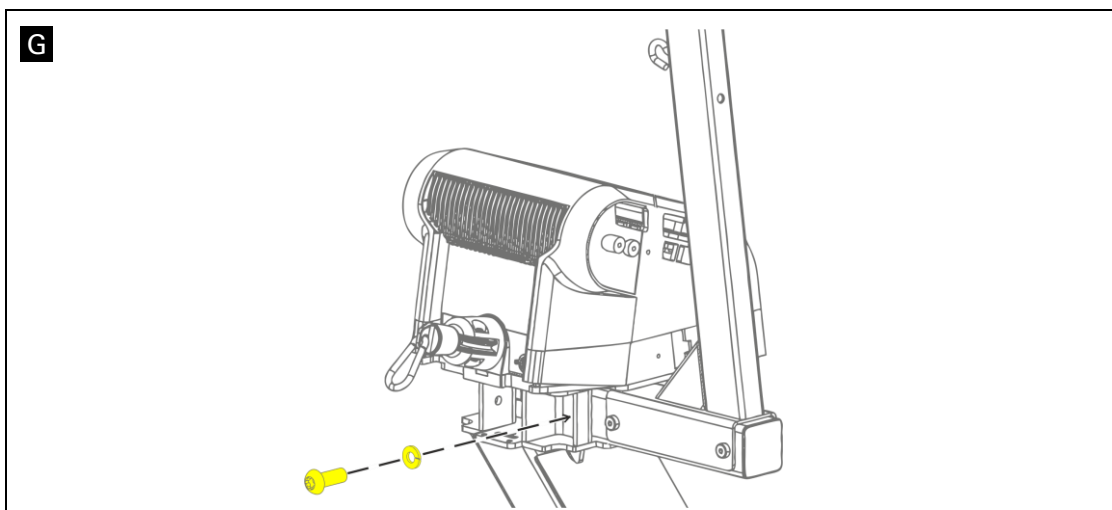
(E) Assemble the Lower and Middle beam of the SIT using two bolts M6x55 (HX6) with washers and nuts M6.



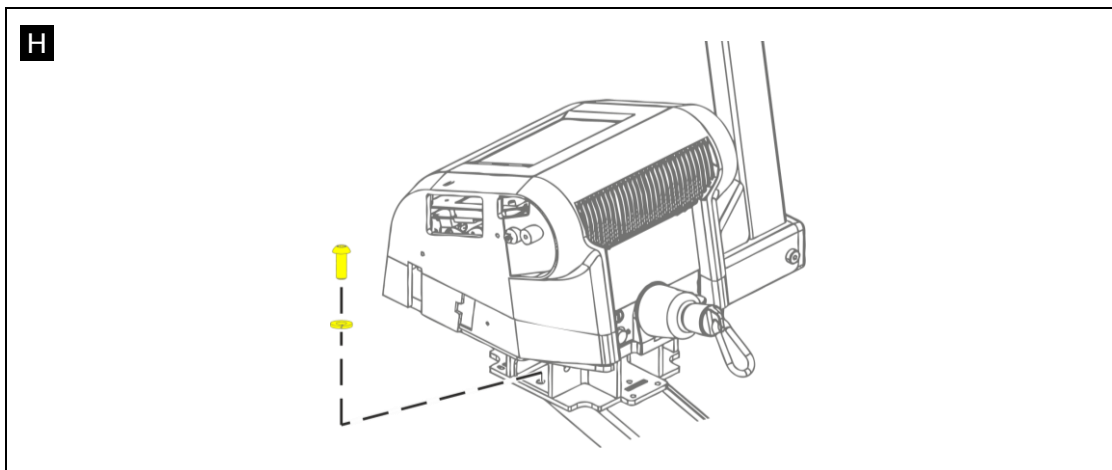
(F) Insert the SIT inside the Console.



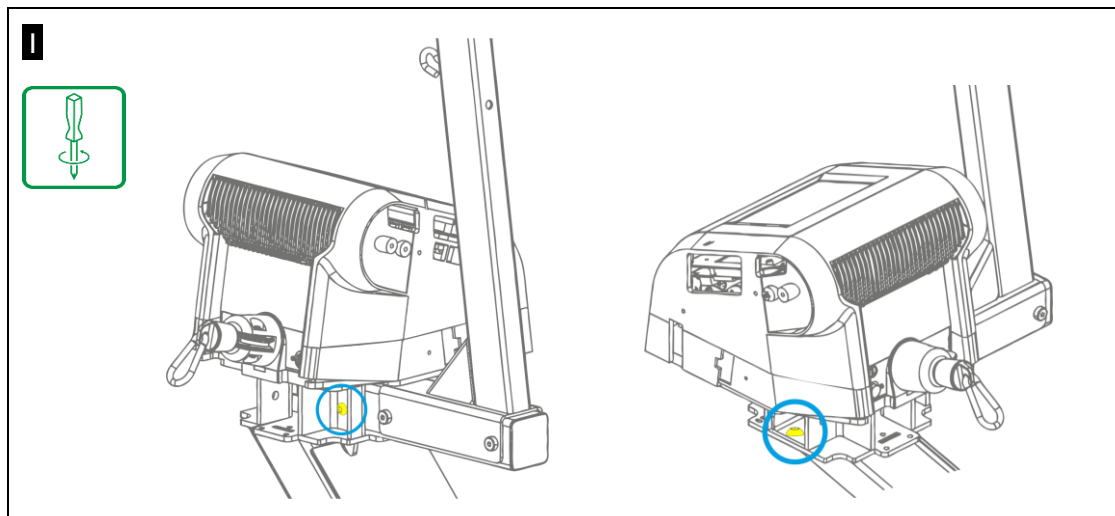
(G) Secure the SIT with the screw M6x12 (TX30) with washer M6. Fasten the screw only half way.



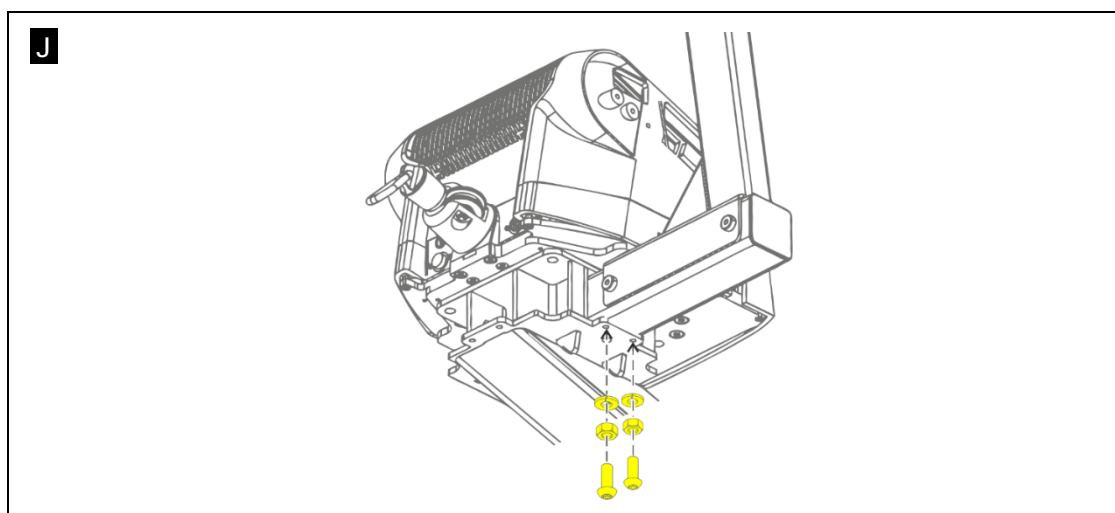
(H) Secure the front part of the SIT with screw M6x12 (TX30) with washer M6. Fasten the screw only half way.



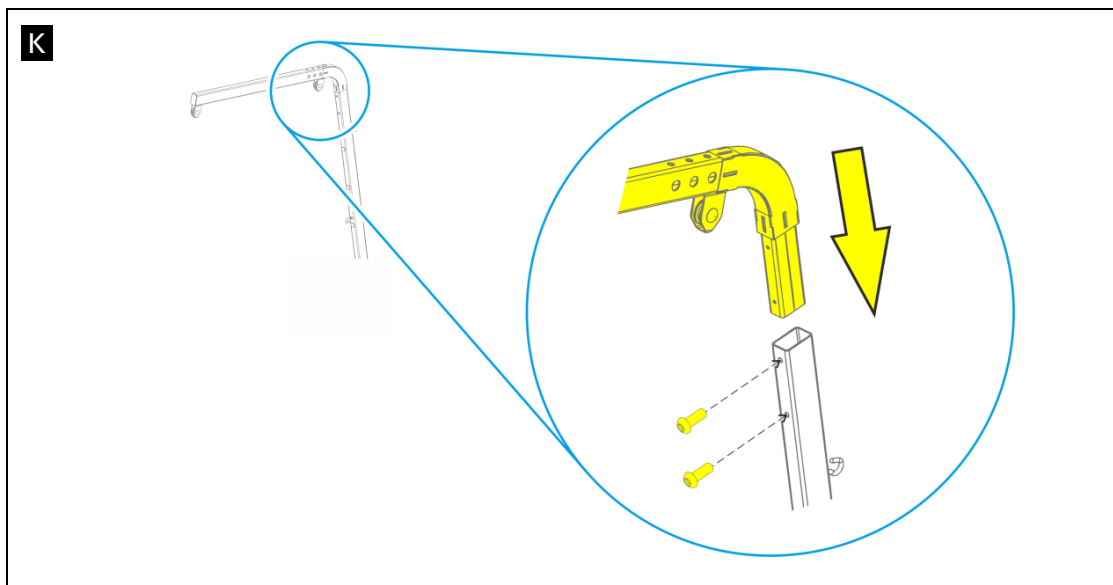
(I) Fasten the screws M6x12 (TX30) the whole way.



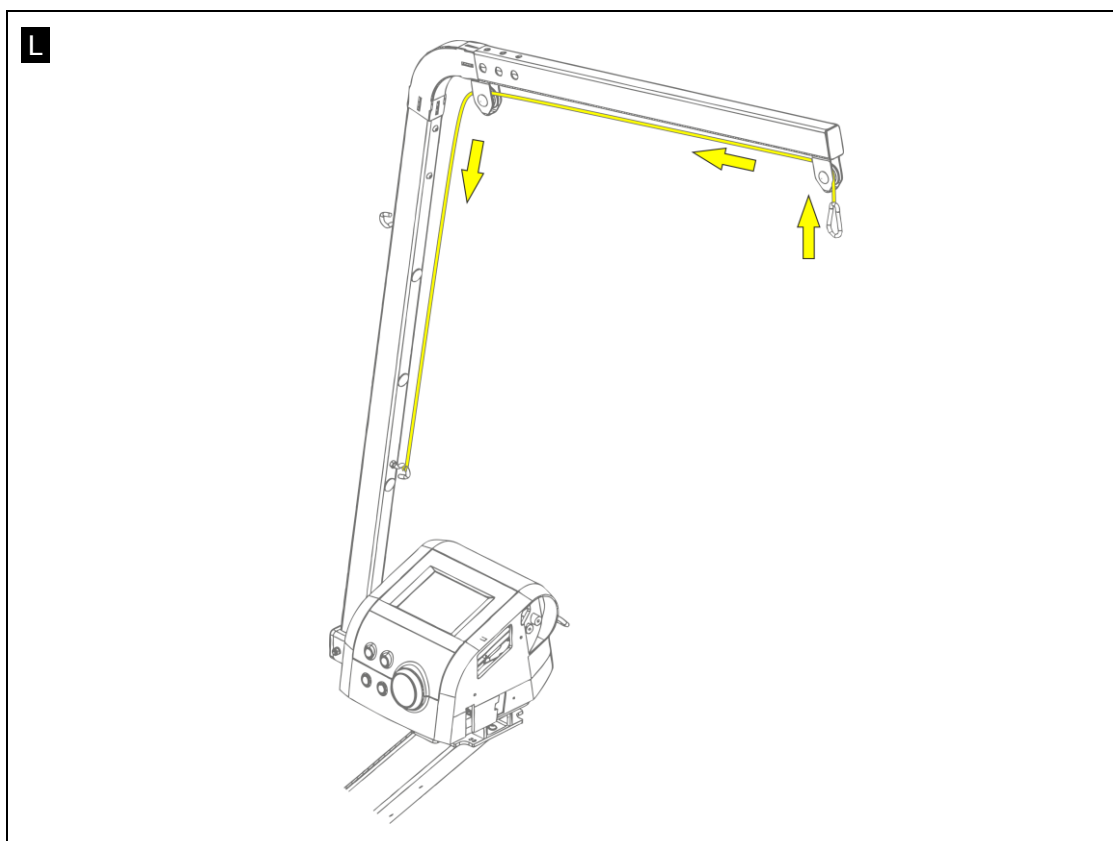
(J) Secure the SIT by two screws M6x16 (TX30) and contra nuts M6 with washers. After fastening the screws completely, tighten also the contra nuts M6 (Spanner 10 mm).



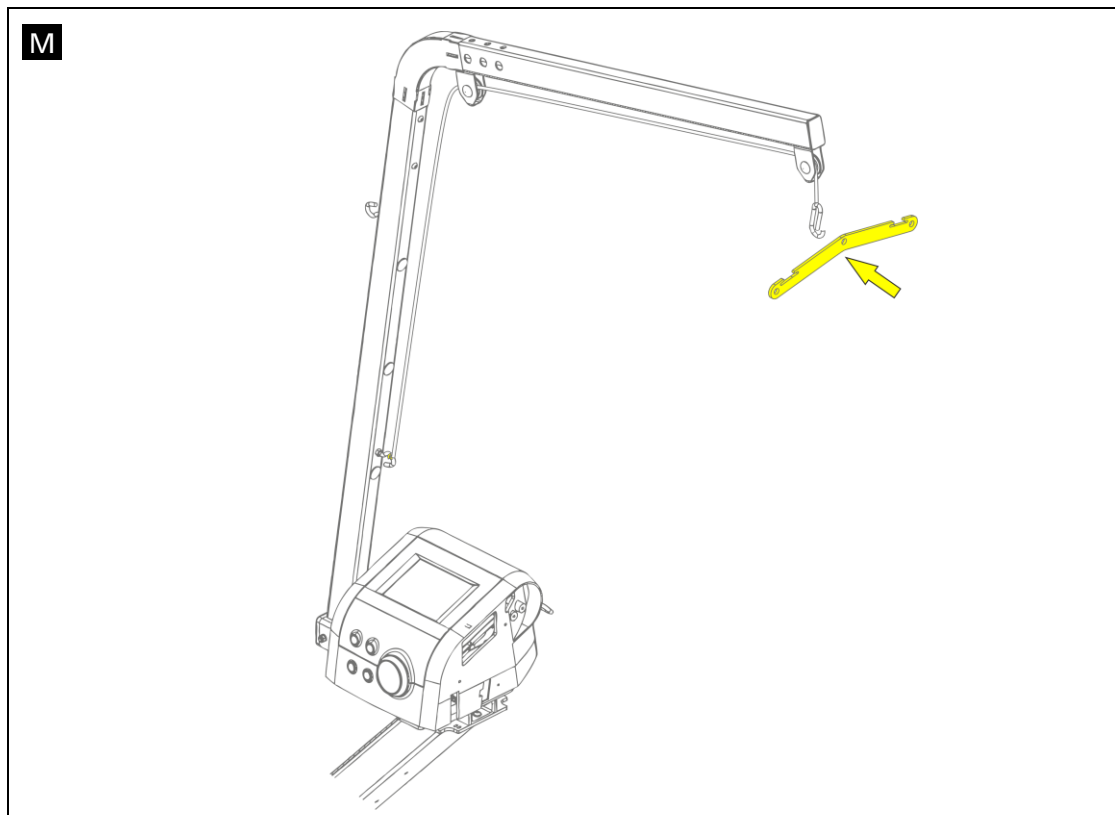
(K) Mount the Upper beam on the Middle beam of the SIT and secure it by two screws M6x16 (TX30).



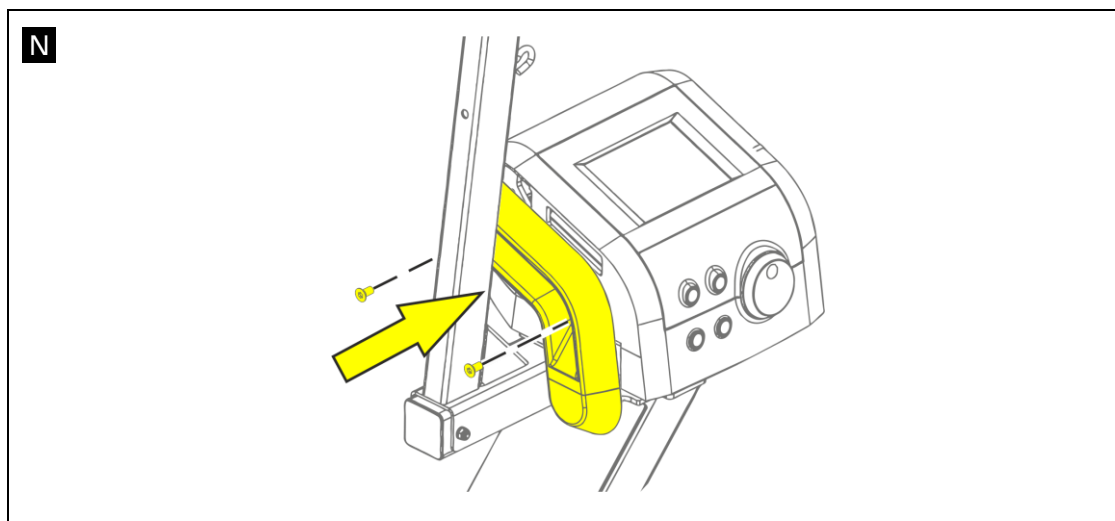
(L) Insert the string with carabiner and fix it to the SIT.



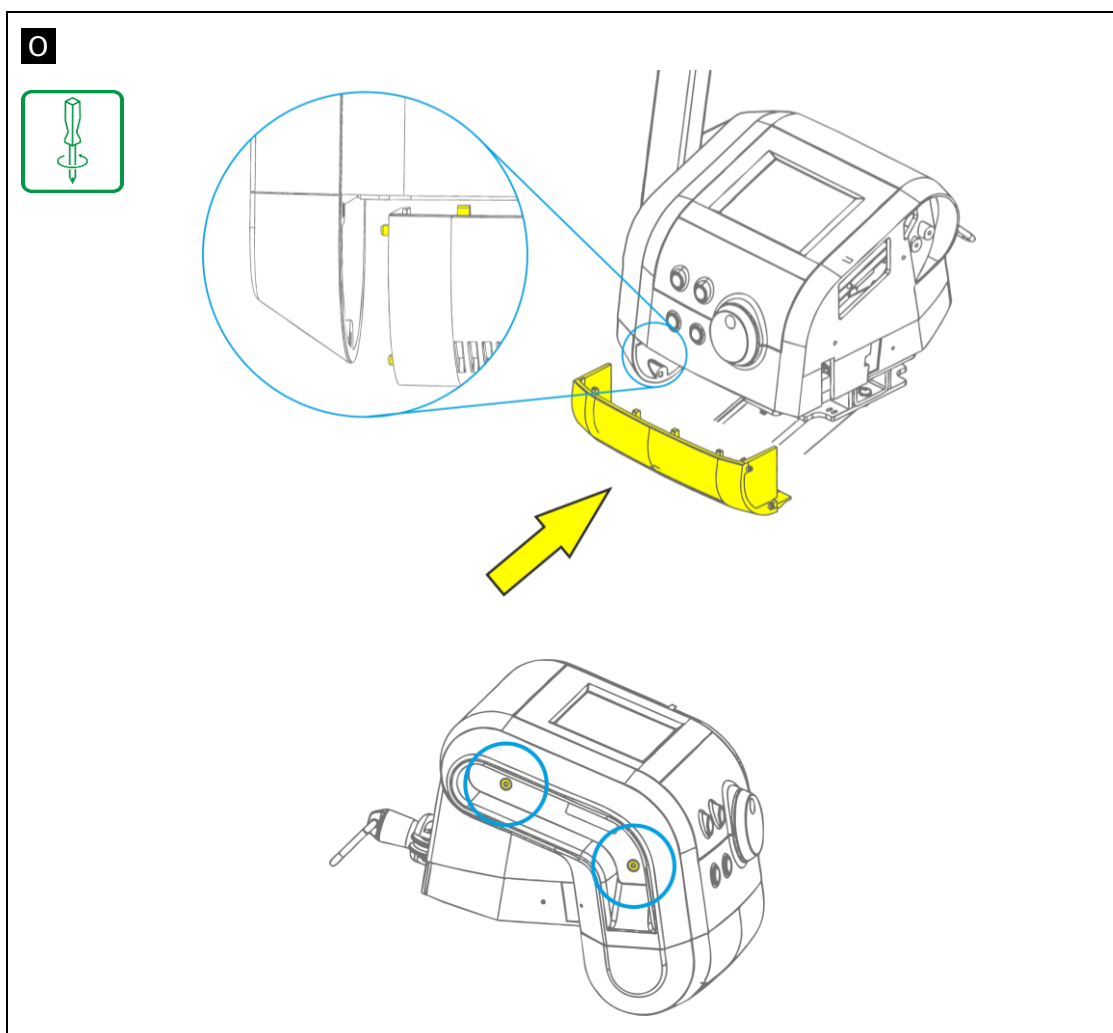
(M) Insert the Spreader bar into the carabiner.



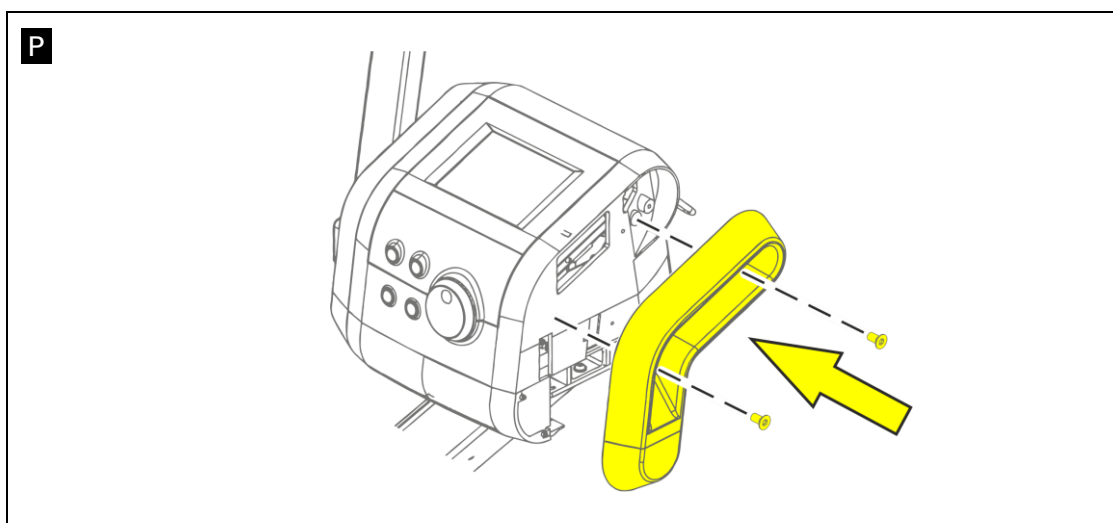
(N) Mount the left Handle to the Unit. Fasten two screws M5x10 (TX25) only half way.



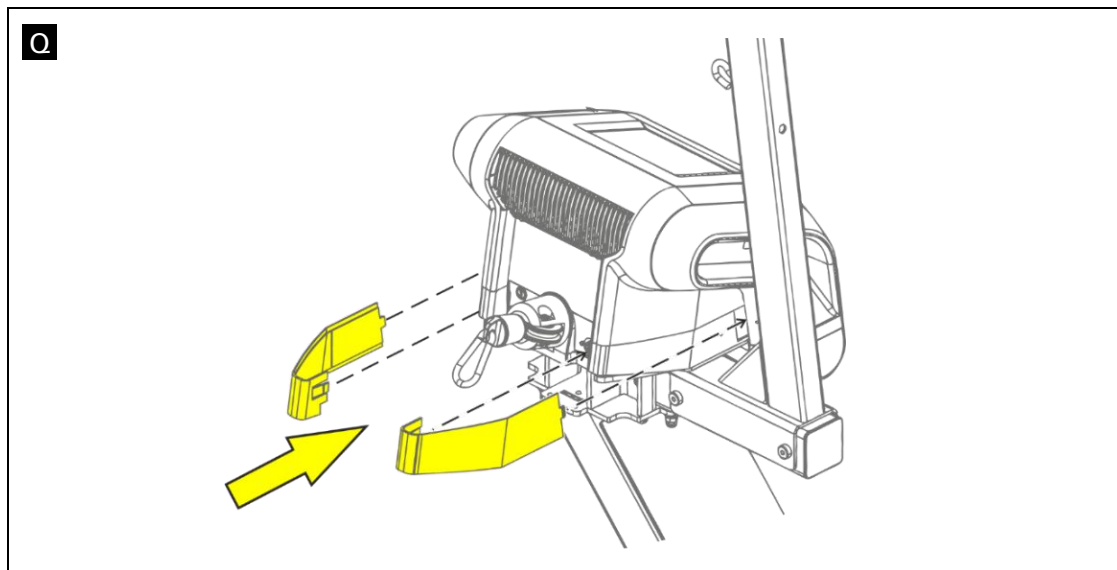
(O) Fit the Front cover in the Handle insertions. Hold the Front cover and fasten two screws M5x10 (TX25) of the Handle the whole way.



(P) Secure the second Handle using two screws M5x10 (TX25).



(Q) Slide the Cover strips into the designated slits.

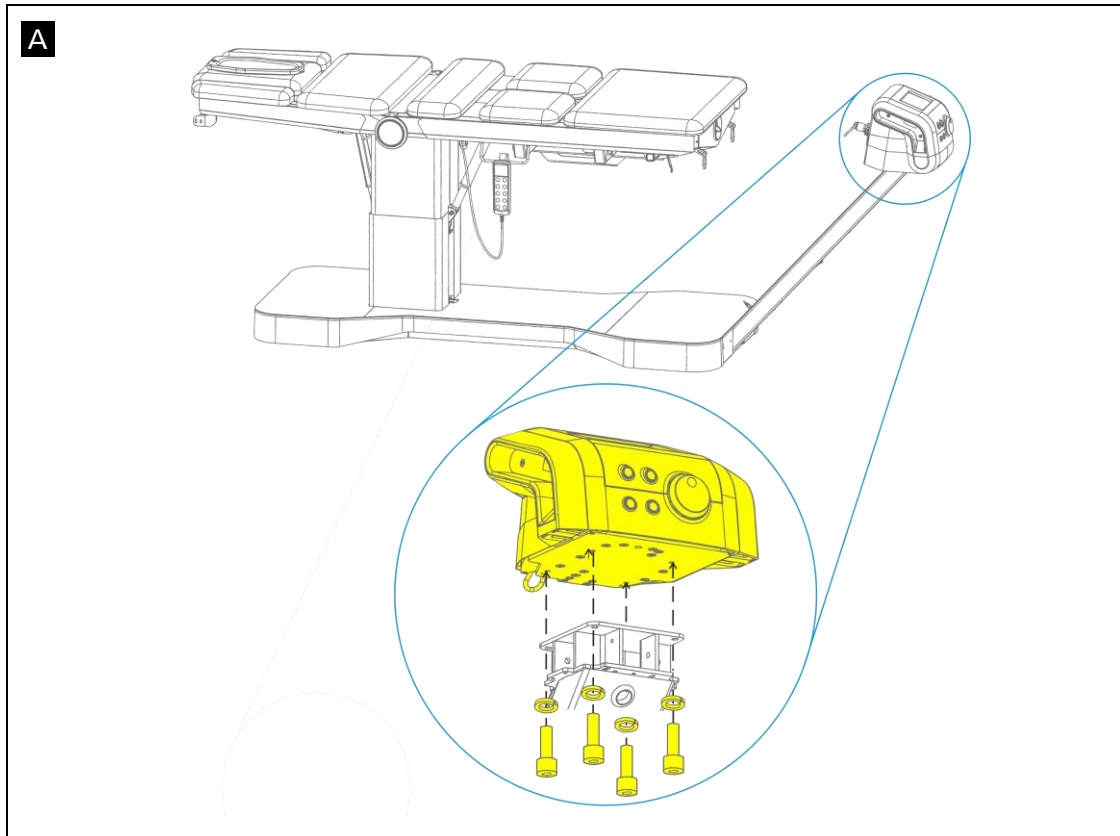


4.2.3 Couch with ASY

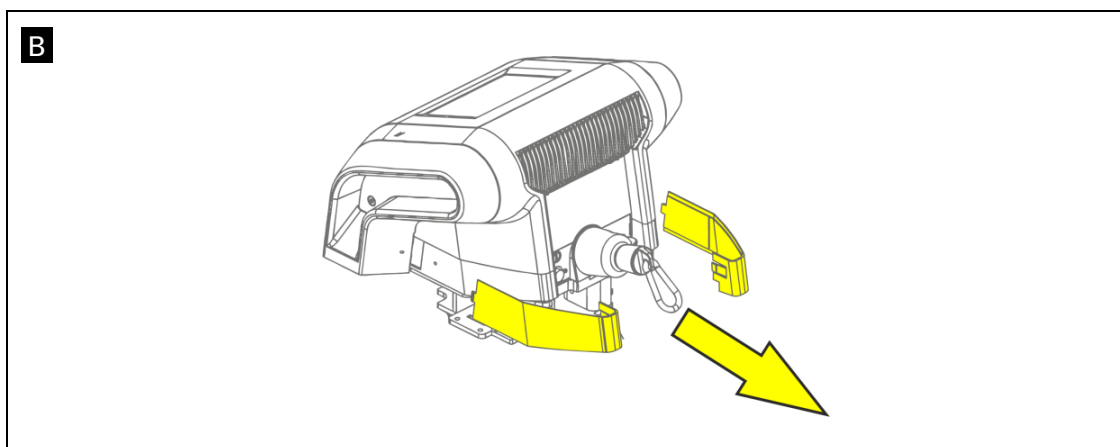
UNIT IN CENTER – ASY

Components for the assembly can be found in the table “UNIT” and “ASY” in the chapter [1.3 Required Tools and Components](#).

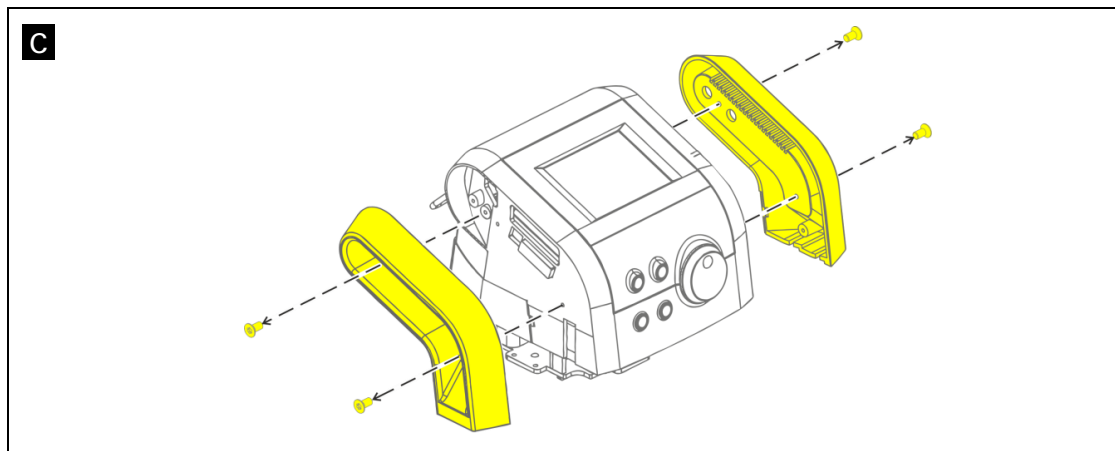
(A) Place the Unit on the Console and secure it by four screws M8x20 (HX6) with washers.



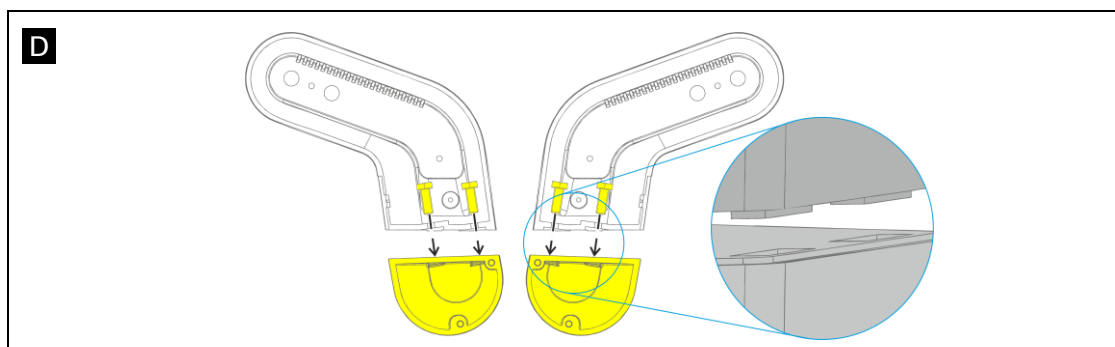
(B) Remove the Cover strips.



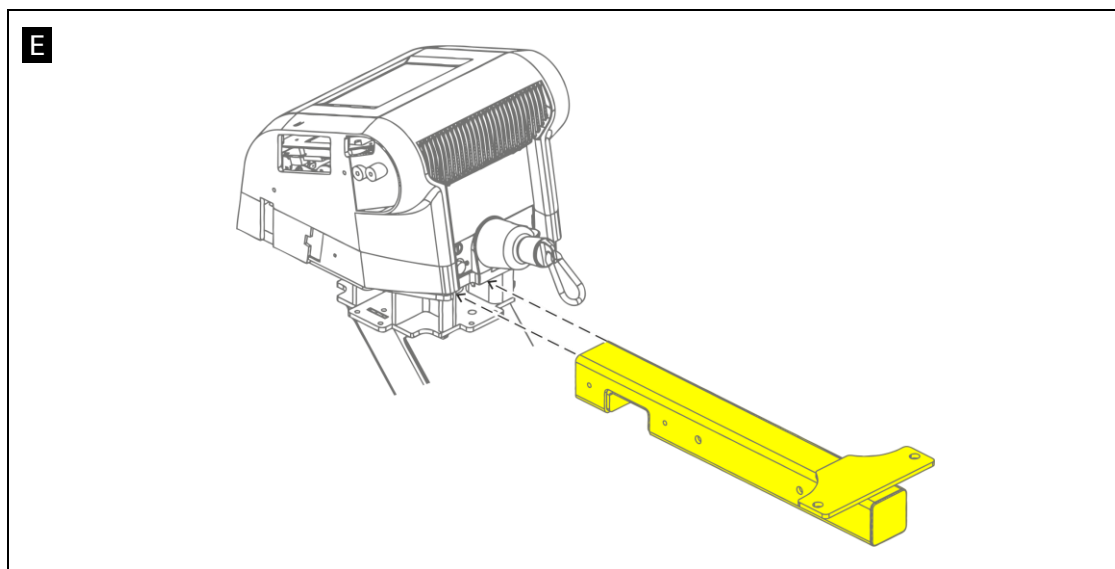
(C) Unscrew four screws M5x10 (TX25) and remove the Handles of the Unit.



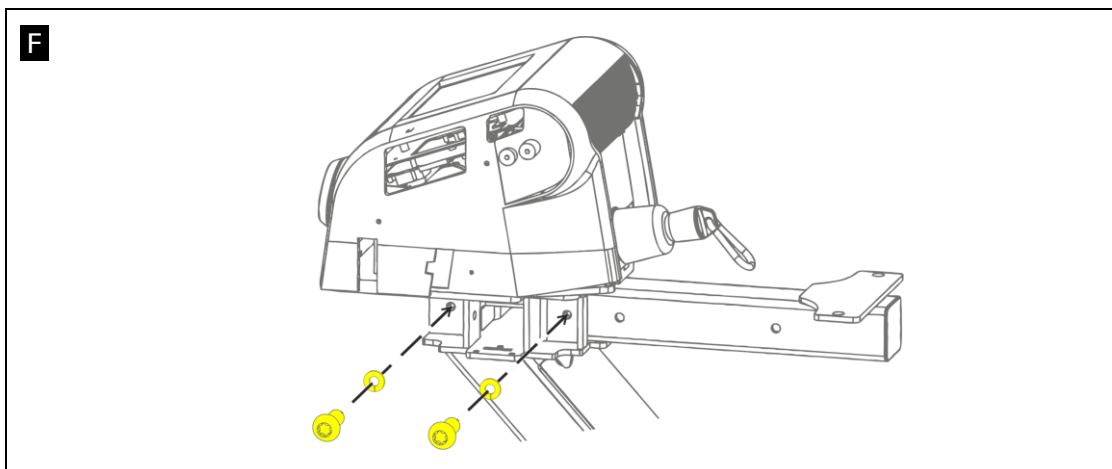
(D) Connect the Handles with their extensions using four screws M6x16 (Spanner 10 mm).



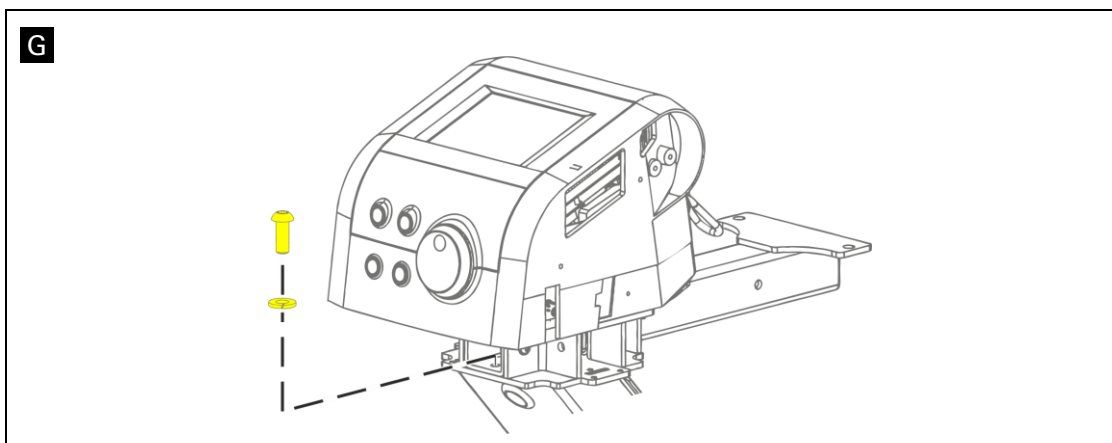
(E) Insert the Base beam inside the Console from the side which faces the Couch.



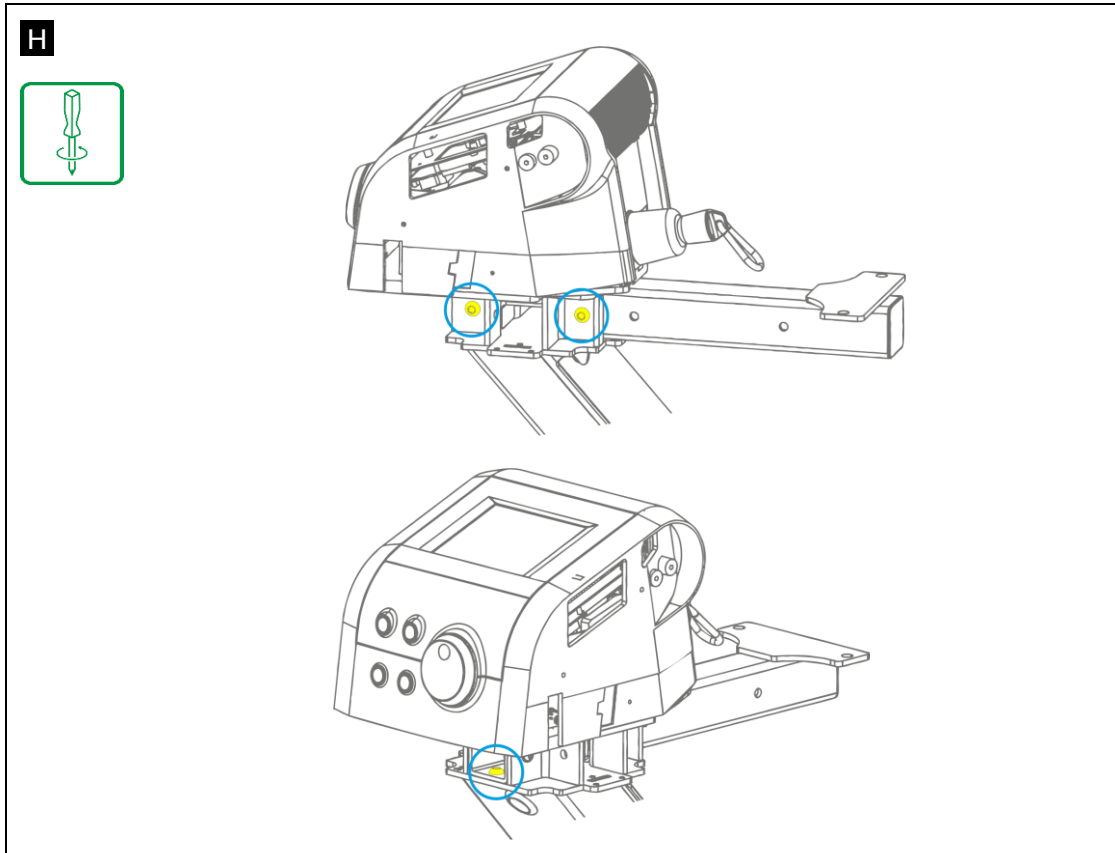
(F) Secure the Base beam by two screws M6x12 (TX30) with a spring lock washers. Fasten the screws only half way.



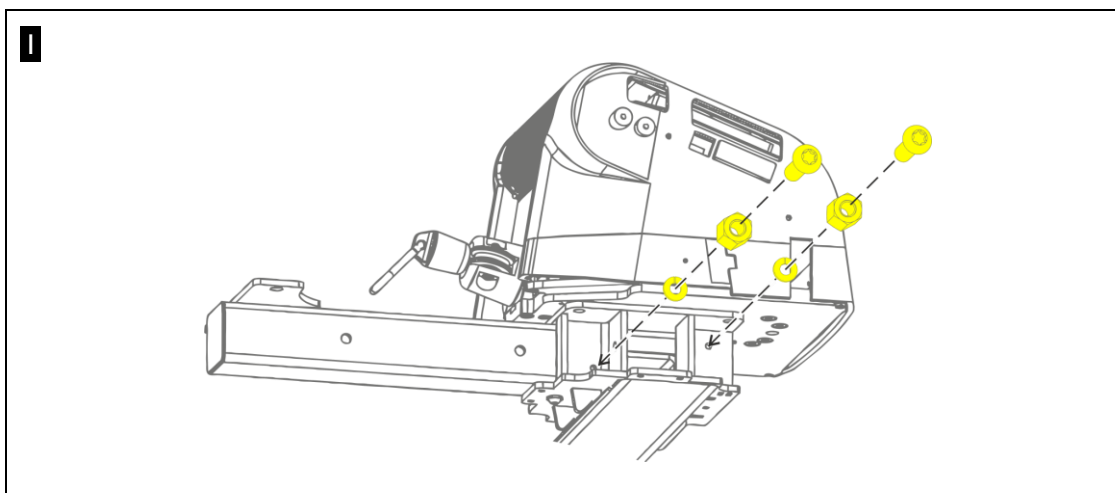
(G) Secure the front part of the Base beam by one screw M6x12 (TX30) and a spring lock washer. Fasten the screw only half way.



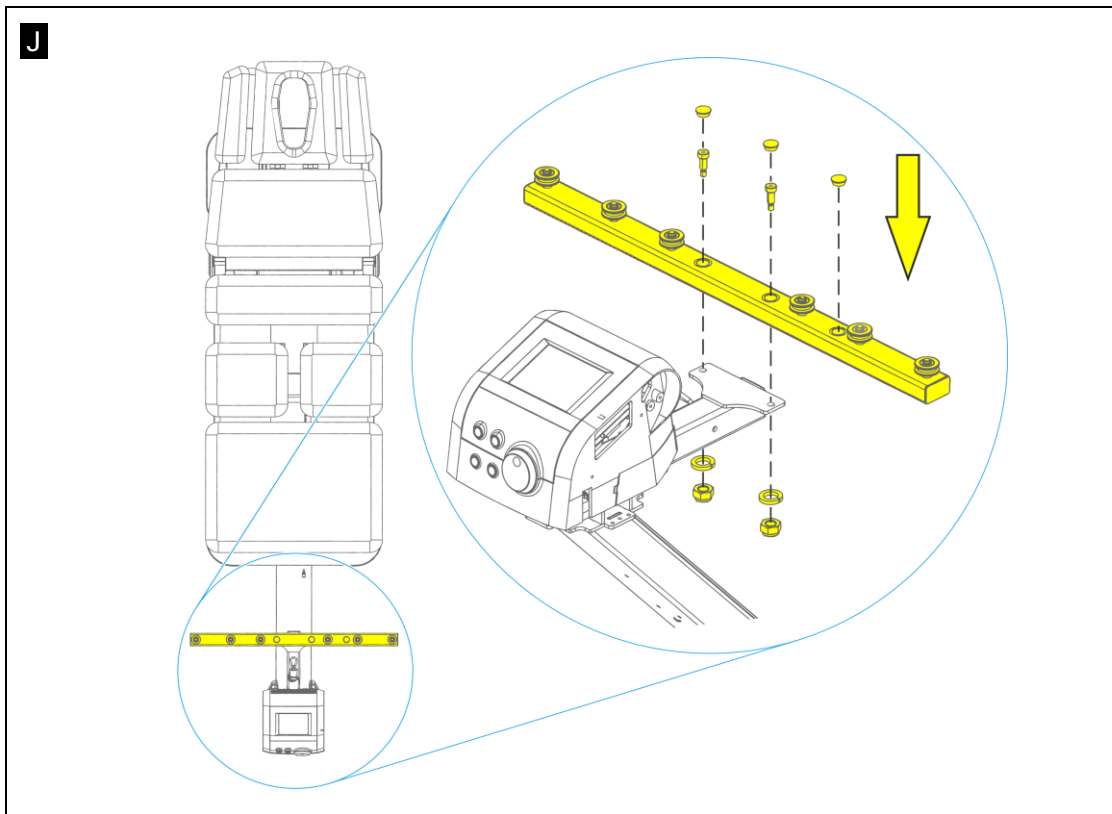
(H) Fasten three screws M6x12 (TX30) the whole way.



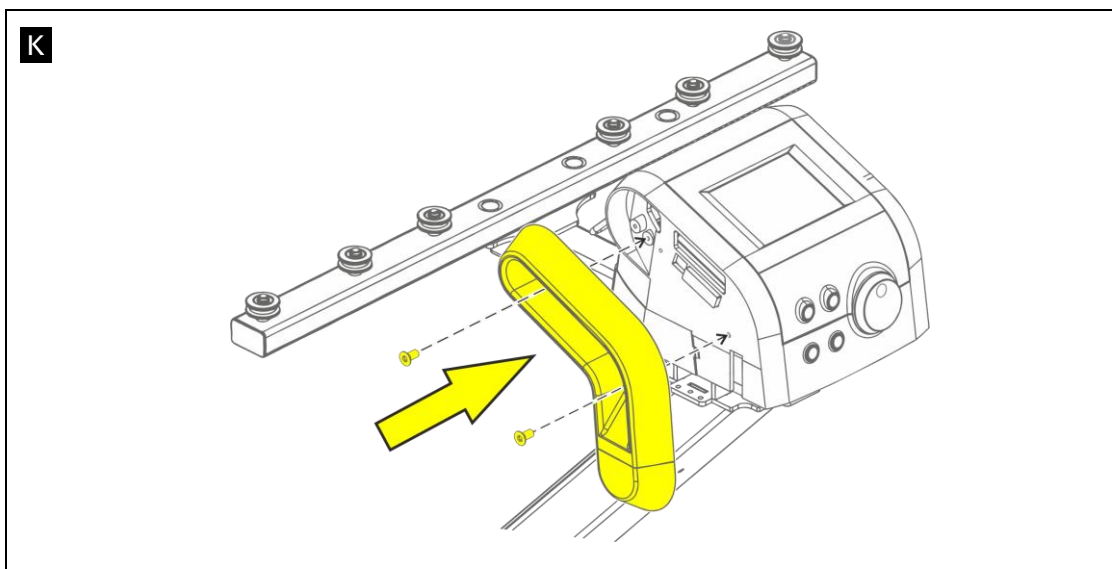
(I) Secure the Base beam by two thrust screws M6x20 (TX30) with contra nuts M6 and washers. After fastening the screws completely, tighten also the contra nuts M6 (Spanner 10 mm).



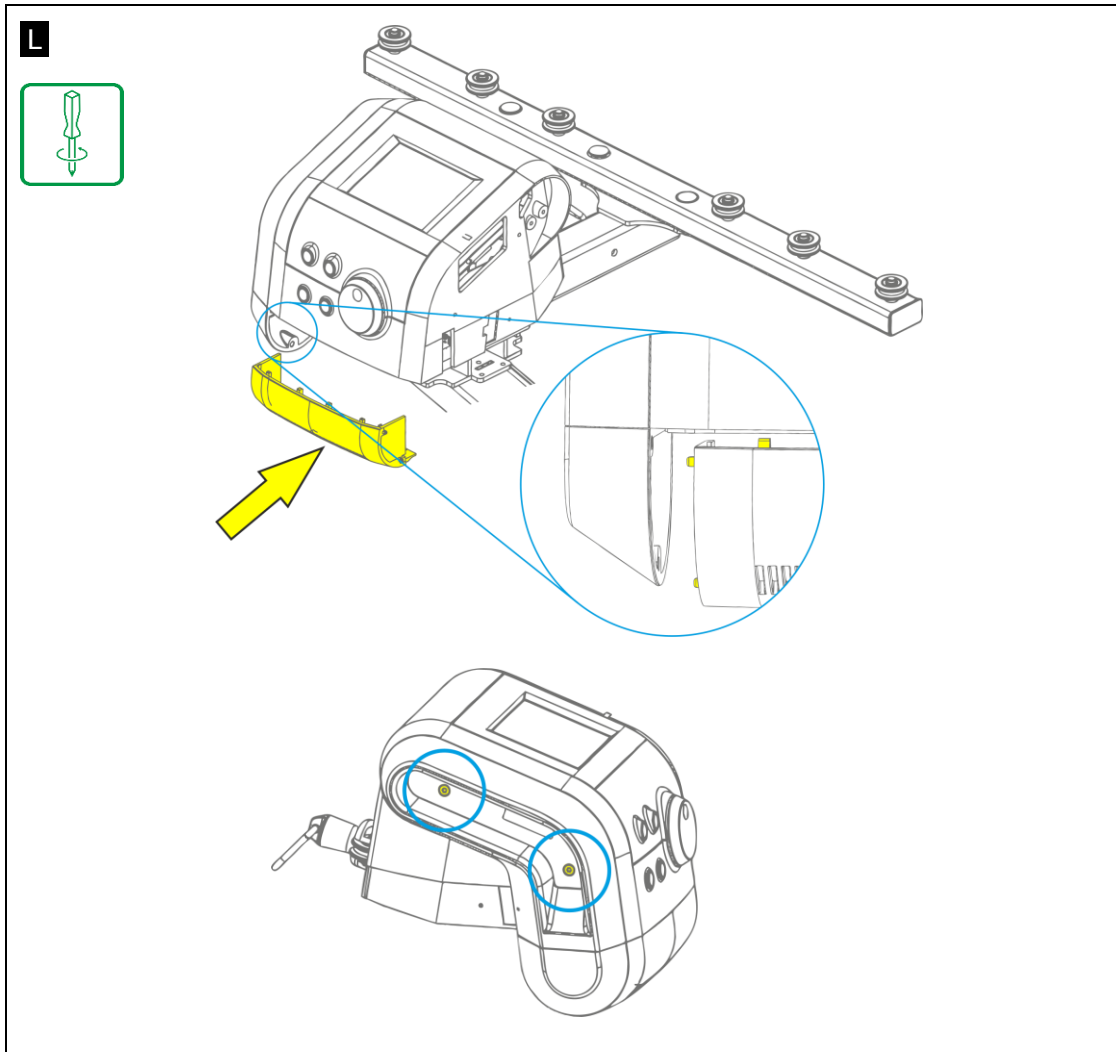
(J) Mount the Transverse beam on the Base beam using two bolts M8x20 (HX5), washers and lock nuts M8 (Spanner 13 mm). After the bolts are secured, cover the three bolt openings in the Transverse beam by the plastic caps.



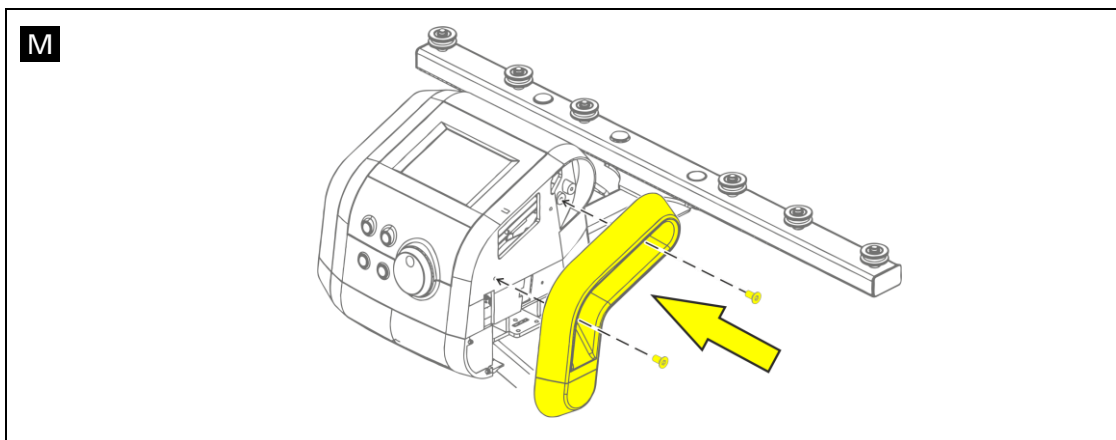
(K) Mount the left Handle to the Unit. Fasten two screws M5x10 (TX25) only half way.



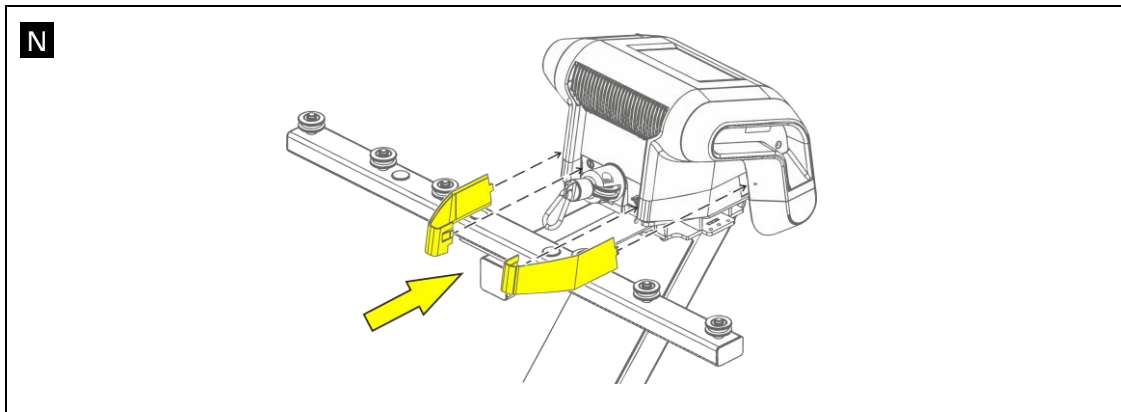
(L) Fit the Front cover in the Handle insertions. Hold the Front cover and fasten two screws M5x10 (TX25) of the Handle the whole way.



(M) Secure the second Handle using two screws M5x10 (TX25).



(N) Slide the Cover strips into the designated slits.



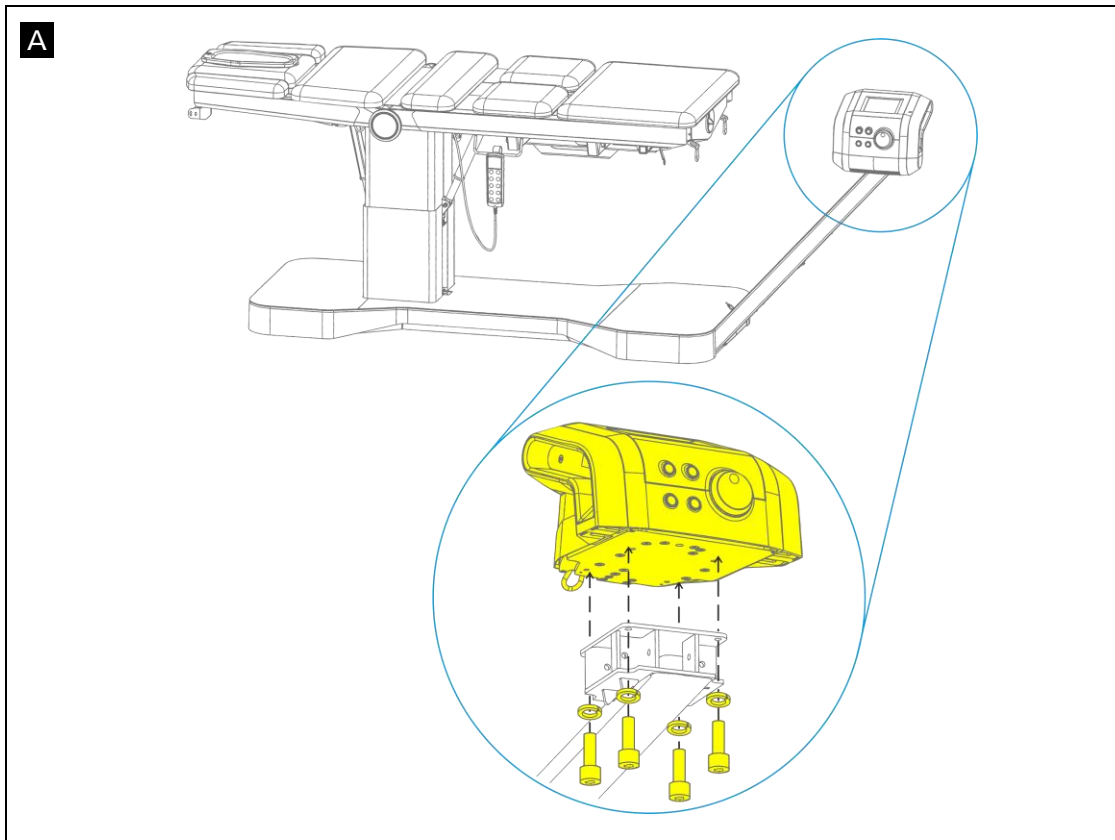
UNIT PLACED LEFT- ASY

UNIT PLACED RIGHT - ASY

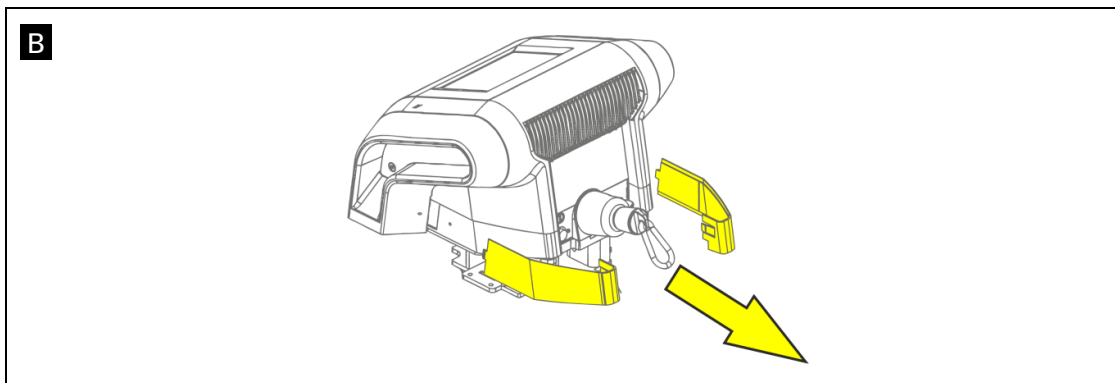
Components for the assembly can be found in the table "UNIT" and "ASY" in the chapter [1.3 Required Tools and Components](#).

NOTE: Configuration with Unit placed left was selected for the procedure demonstration. Procedure for other configurations is equivalent.

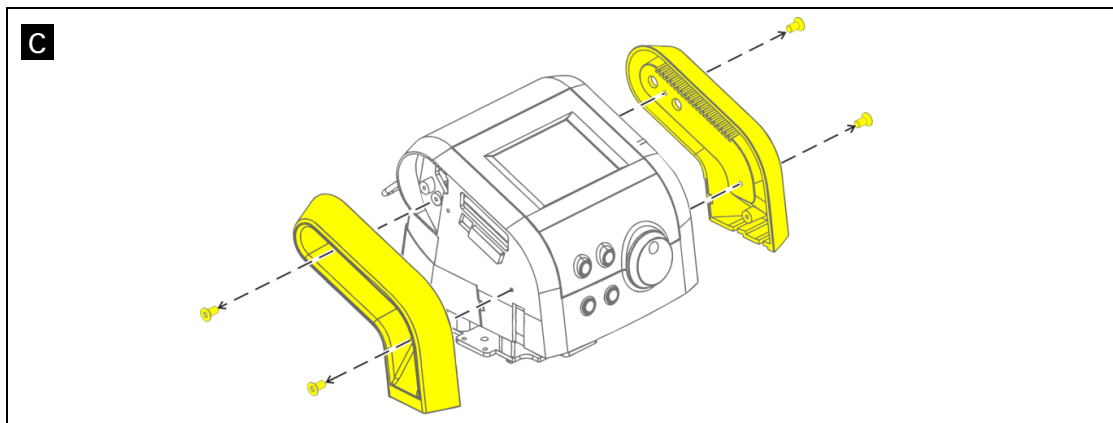
(A) Place the Unit on the Console and secure it by four screws M8x20 (HX6) with washers.



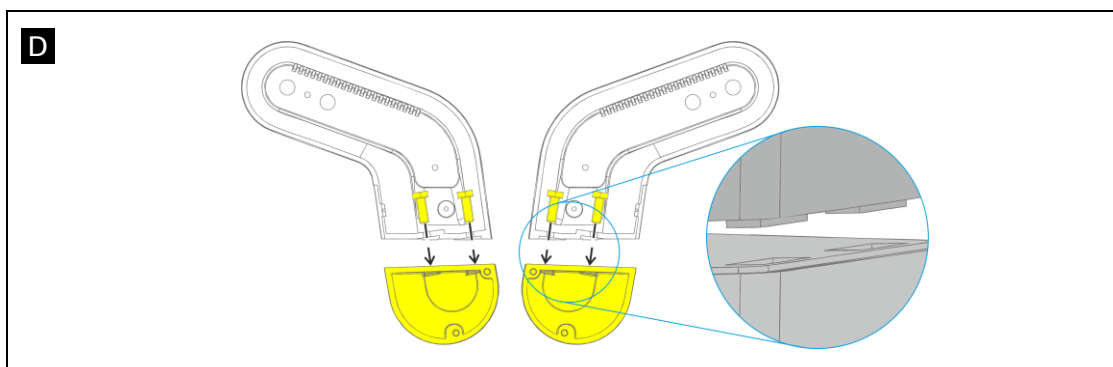
(B) Remove the Cover strips.



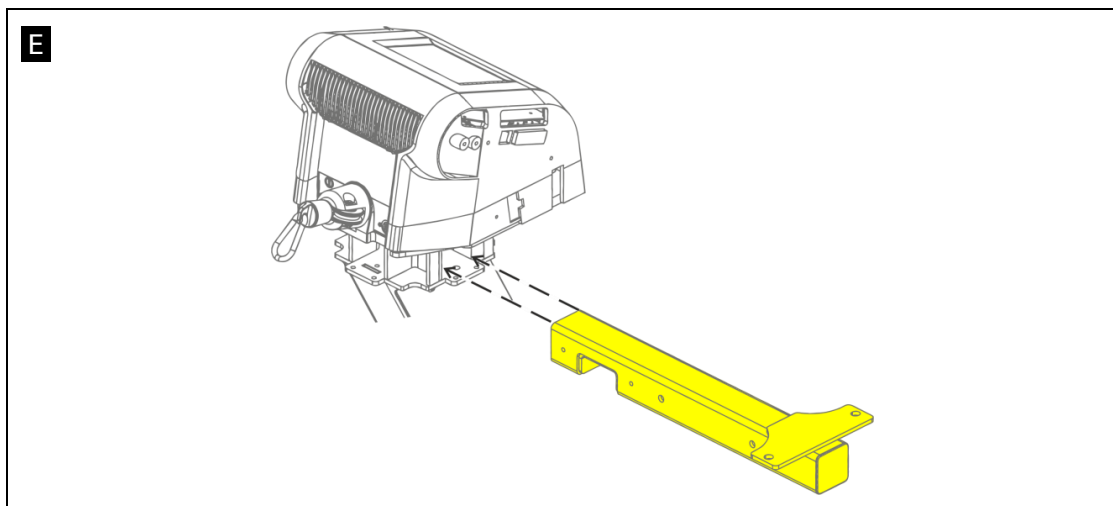
(C) Unscrew four screws M5x10 (TX25) and remove the Handles of the Unit.



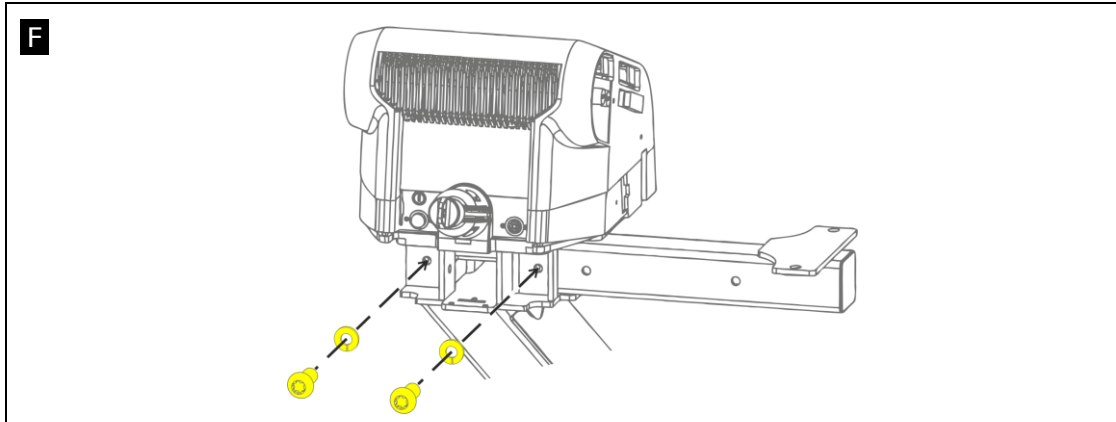
(D) Connect the Handles with their extensions using four screws M6x16 (Spanner 10 mm).



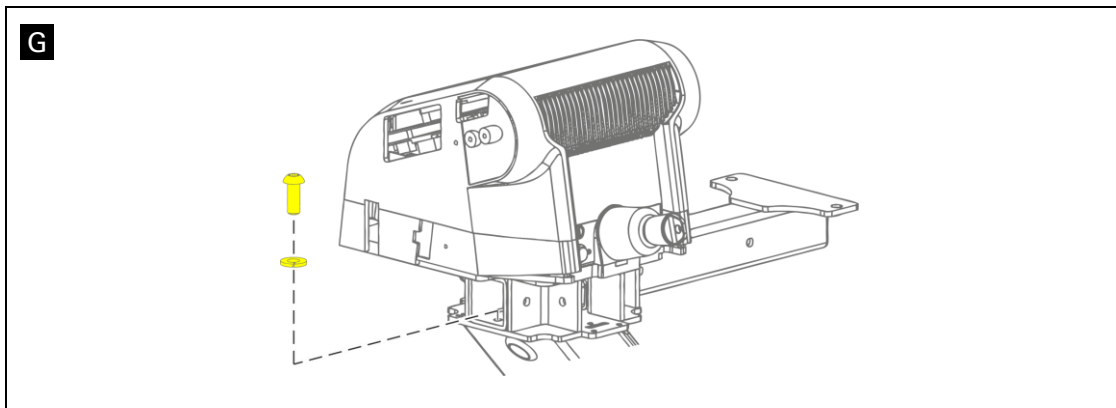
(E) Insert the Base beam inside the Console from the side which faces the couch.



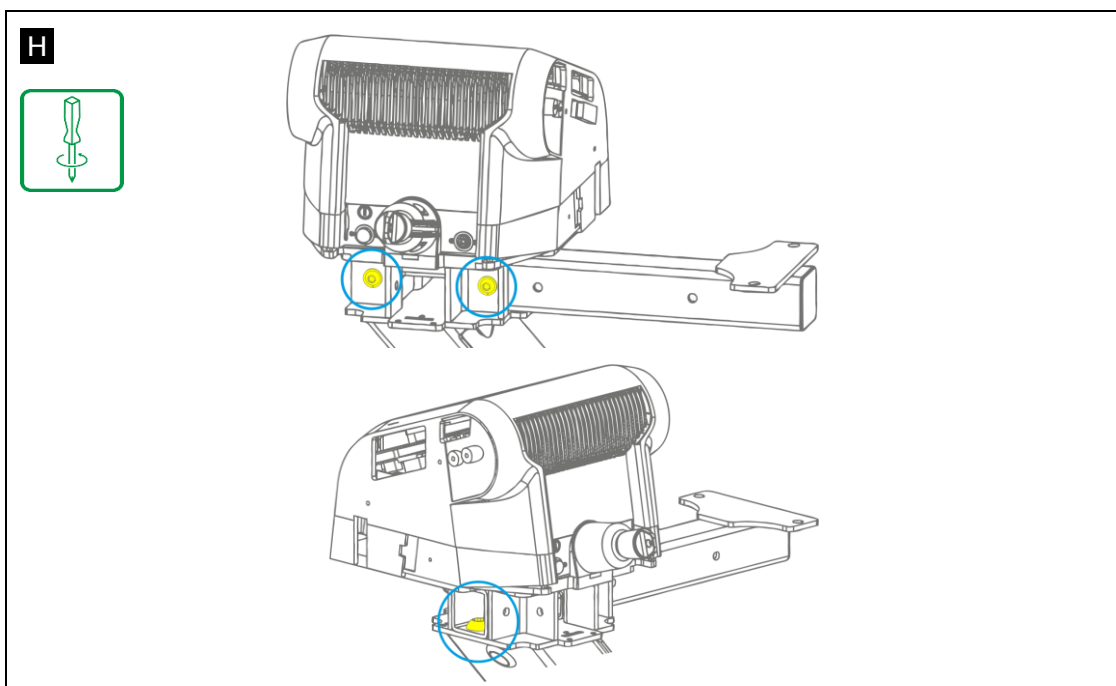
(F) Secure the Base beam by two screws M6x12 (TX30) with a spring lock washers. Tighten the screws only half way.



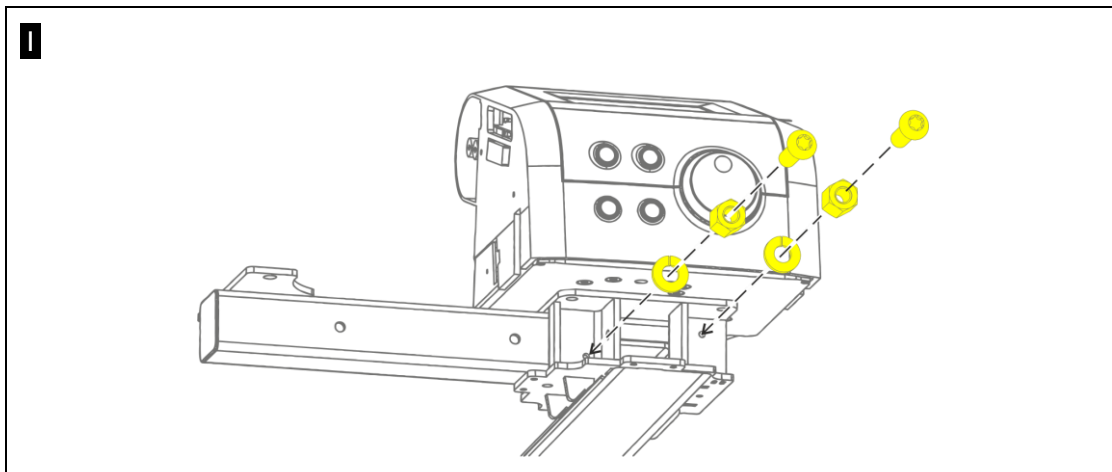
(G) Secure the front part of the Base beam with screw M6x12 (TX30) and washer M6. Tighten the screw only half way.



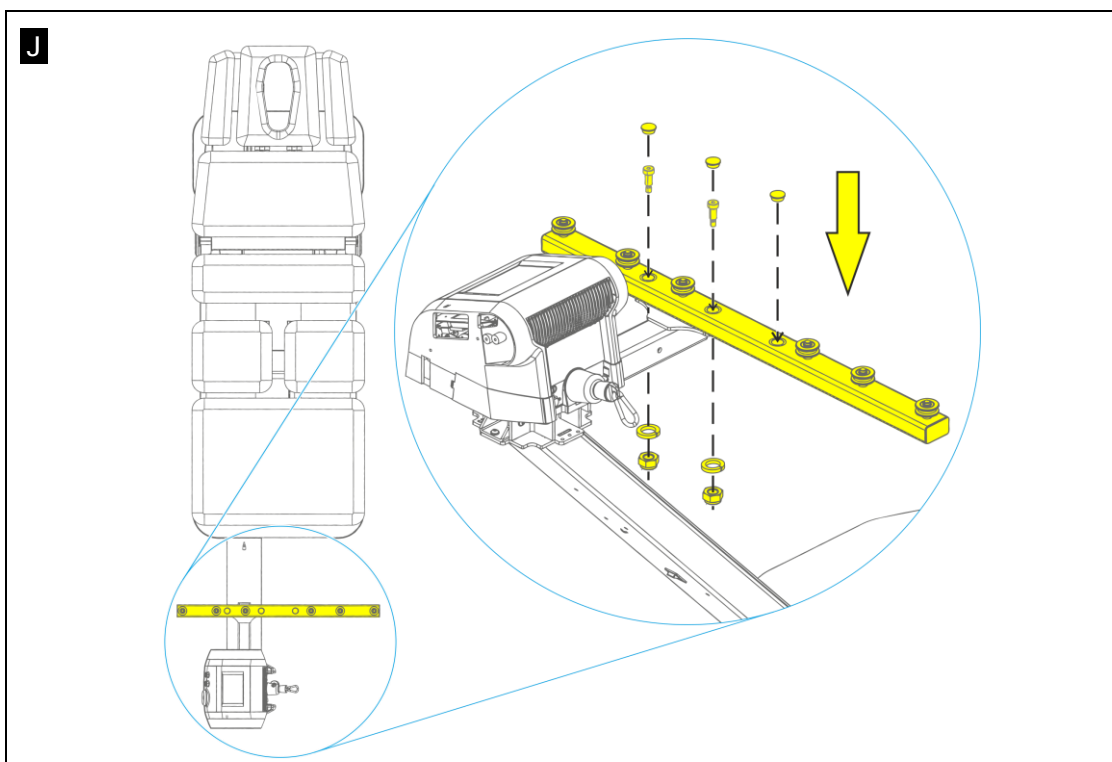
(H) Tighten three screws M6x12 (TX30) the whole way.



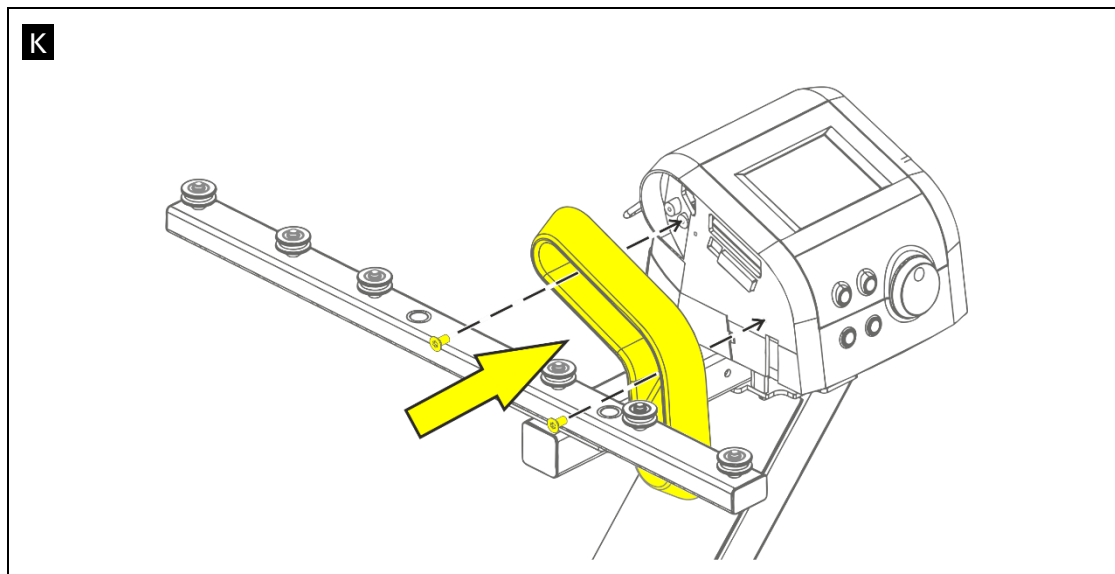
(I) Secure the Base beam by two thrust screws M6x20 (TX30) with contra nuts M6 and washers. After fastening the screws completely, tighten also the contra nuts M6 (Spanner 10 mm).



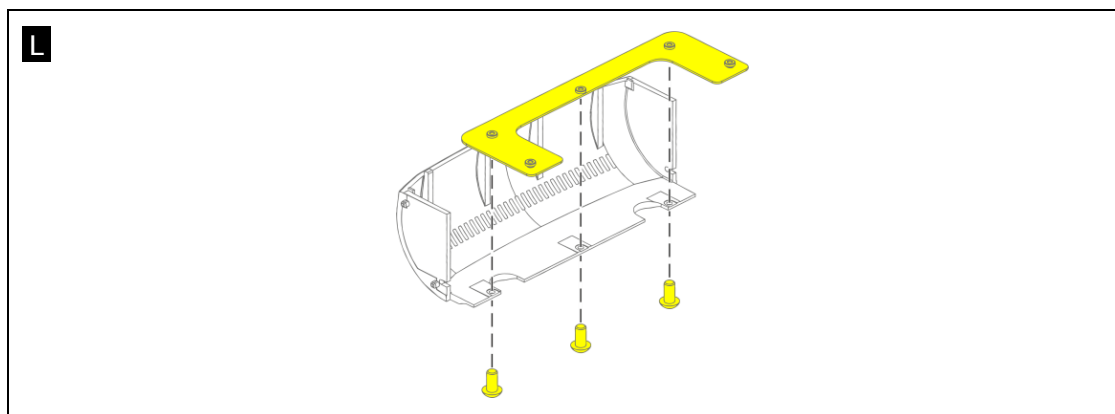
(J) Mount the Transverse beam on the Base beam using two bolts M8x20 (HX5), washers and lock nuts M8 (Spanner 13 mm). After the bolts are secured, cover the three bolt openings in the Transverse beam by the plastic caps.



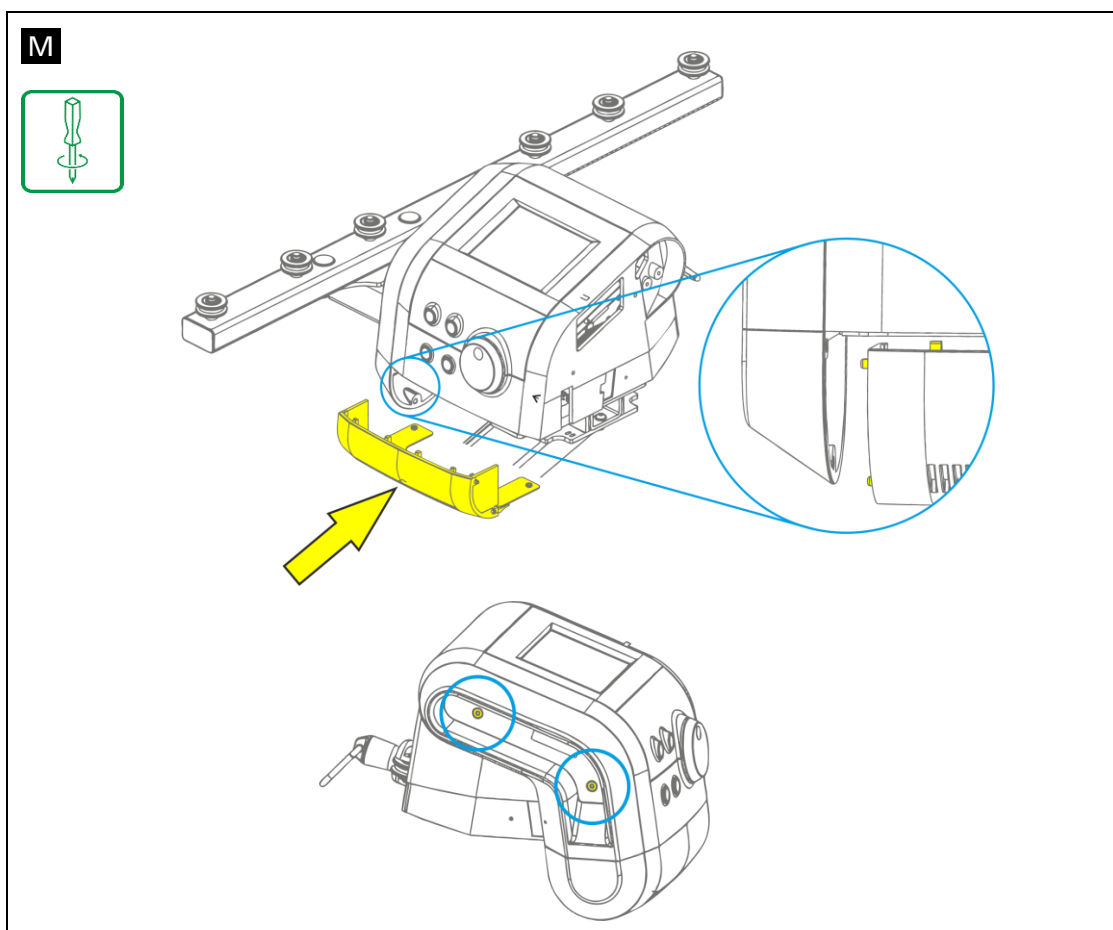
(K) Mount the left Handle to the Unit. Fasten two screws M5x10 (TX25) only half way.



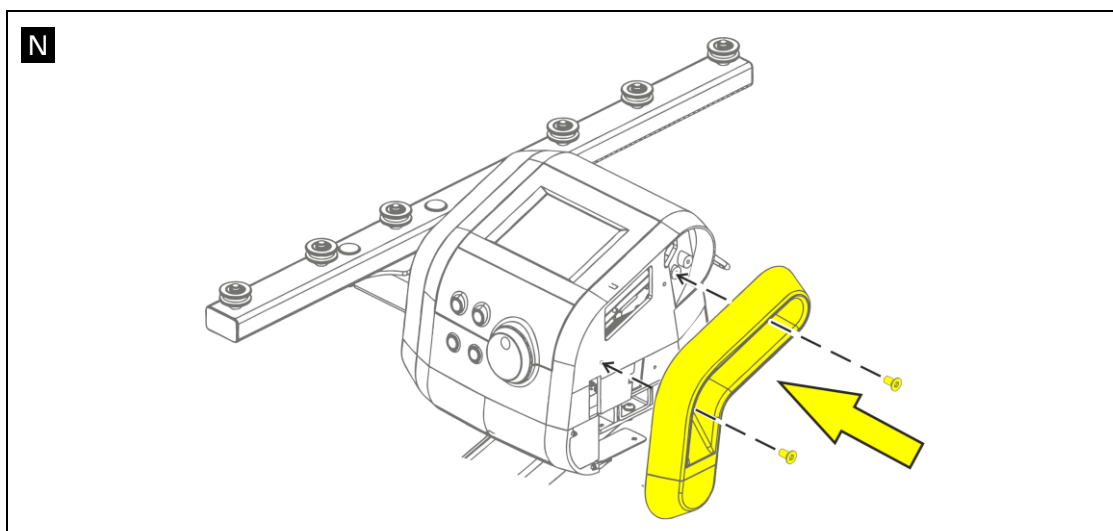
(L) Assemble the Front cover using three screws M4x8 (TX20).



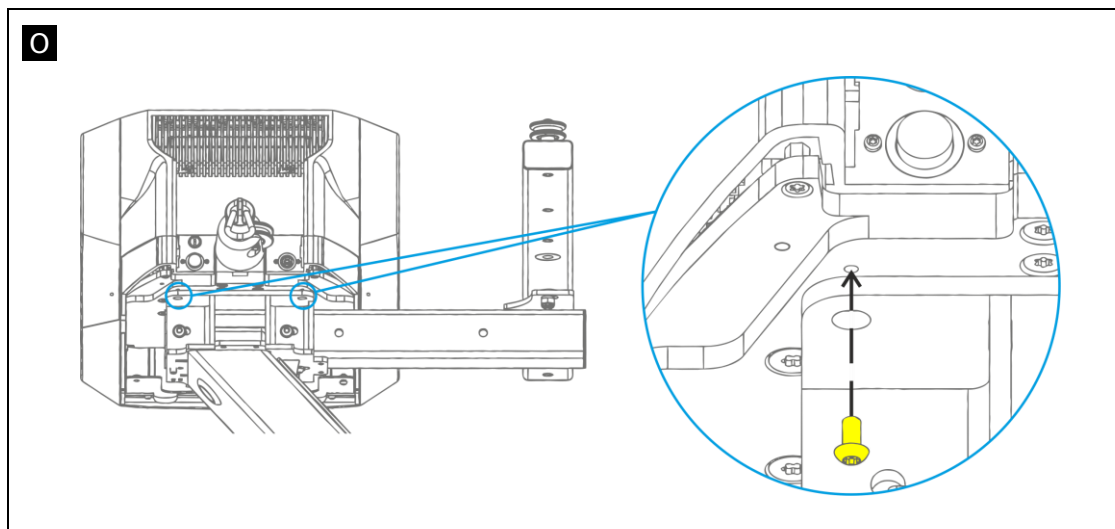
(M) Fit the Front cover in the Handle insertions. Hold the Front cover and fasten two screws M5x10 (TX25) of the Handle the whole way.



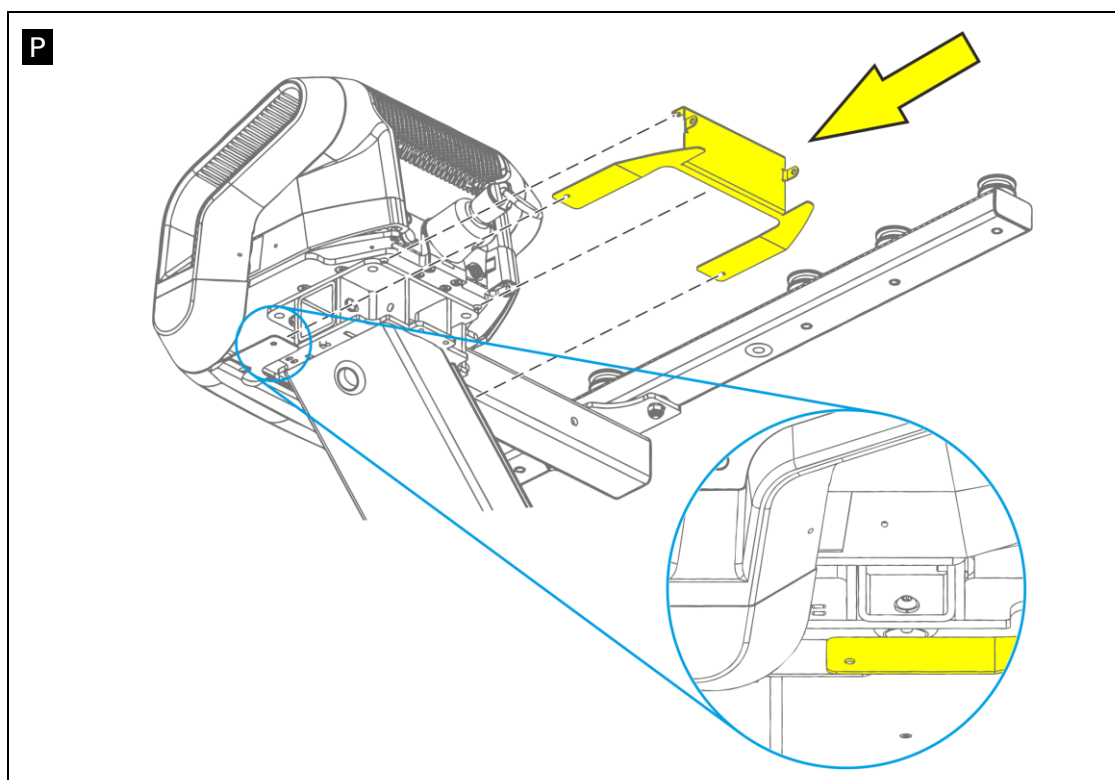
(N) Secure the second Handle using two screws M5x10 (TX25).



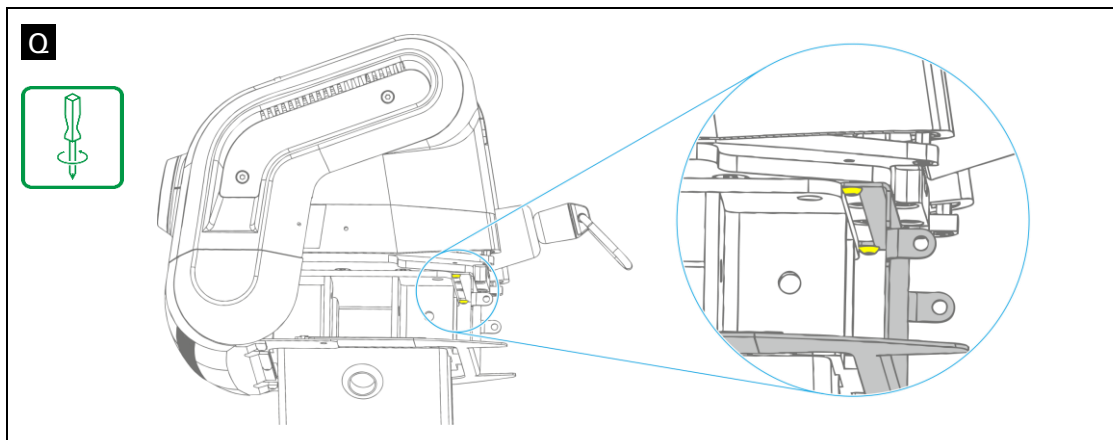
(O) Mount two screws M4x6 (long TX20) from the bottom of the rear side of the Unit.
Fasten the screws only half way.



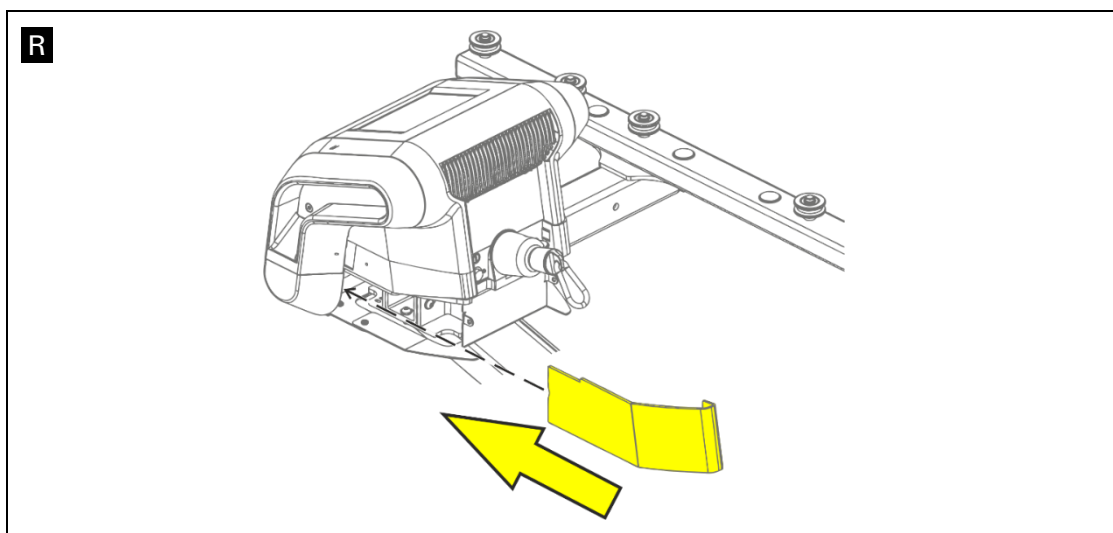
(P) Insert the Back cover so it rests on top of the Front cover.



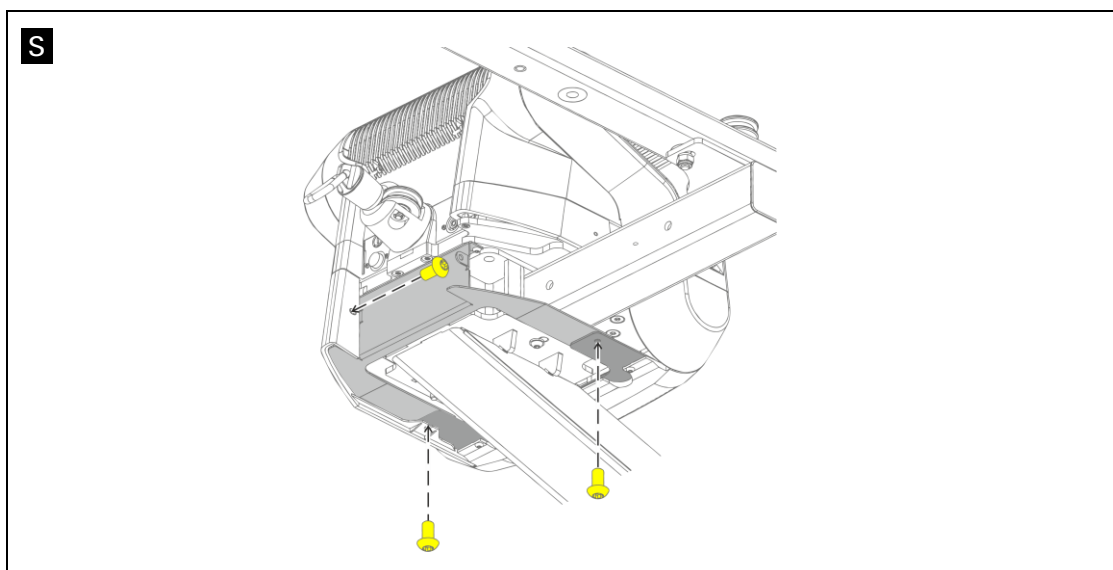
(Q) Fasten two screws M4x6 (long TX 20) the whole way.



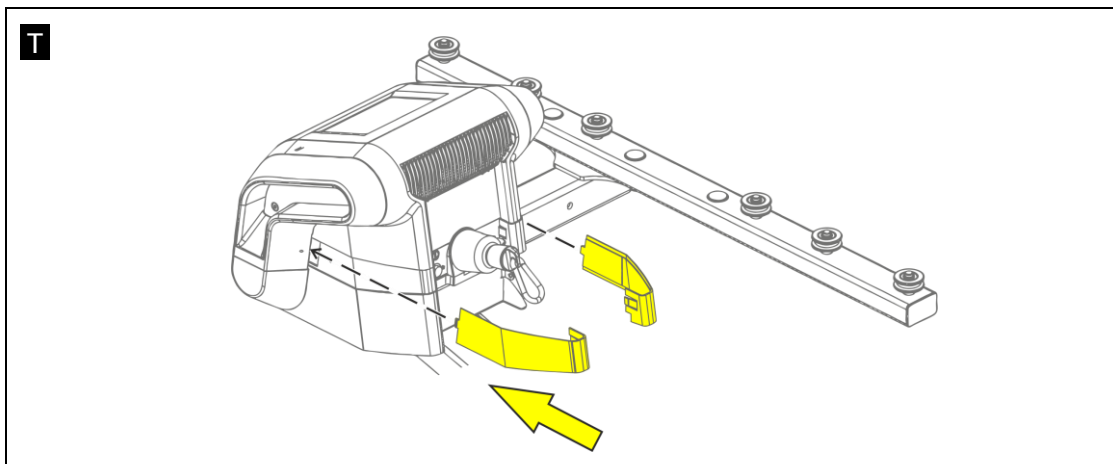
(R) Slide one Profile into the designated slit.



(S) Secure the Profile and Bottom cover by three screws (TX20).



(T) Slide the Cover strips into the designated slits.



4.2.4 Couch with SIT and ASY

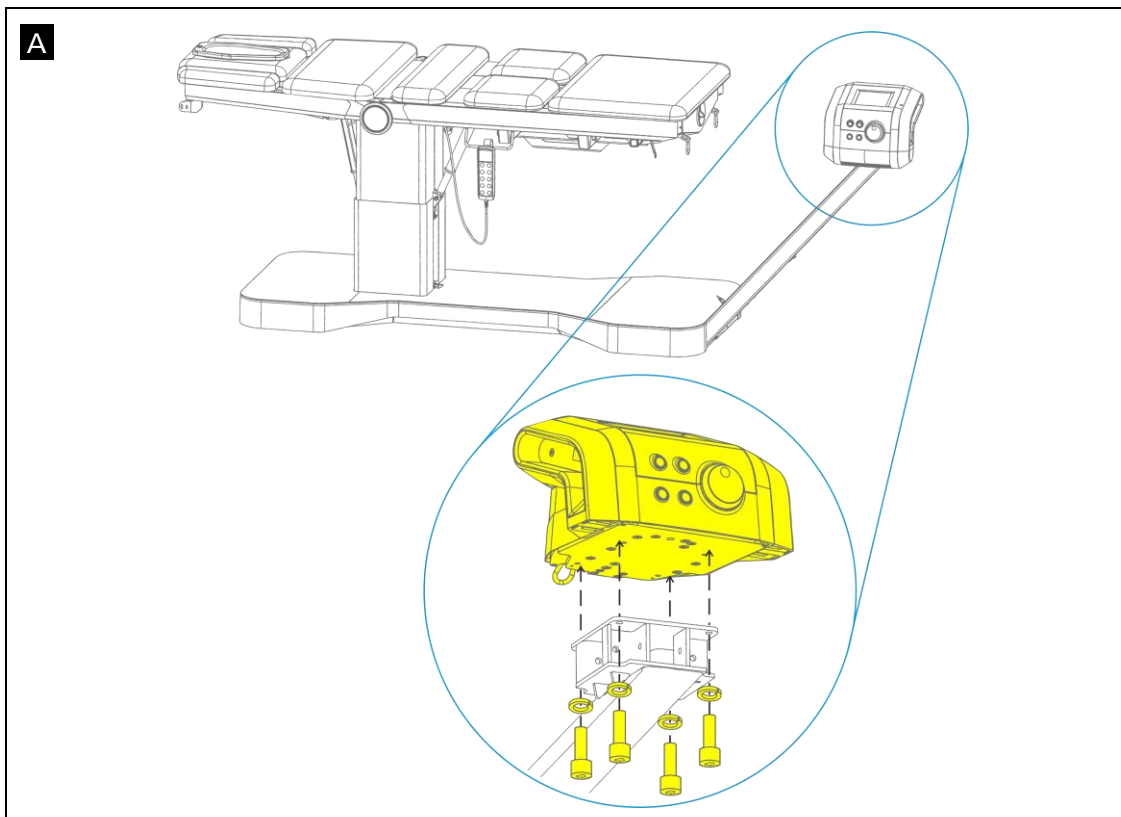
UNIT PLACED LEFT – SIT FROM BEHIND – ASY

UNIT PLACED RIGHT – SIT FROM BEHIND – ASY

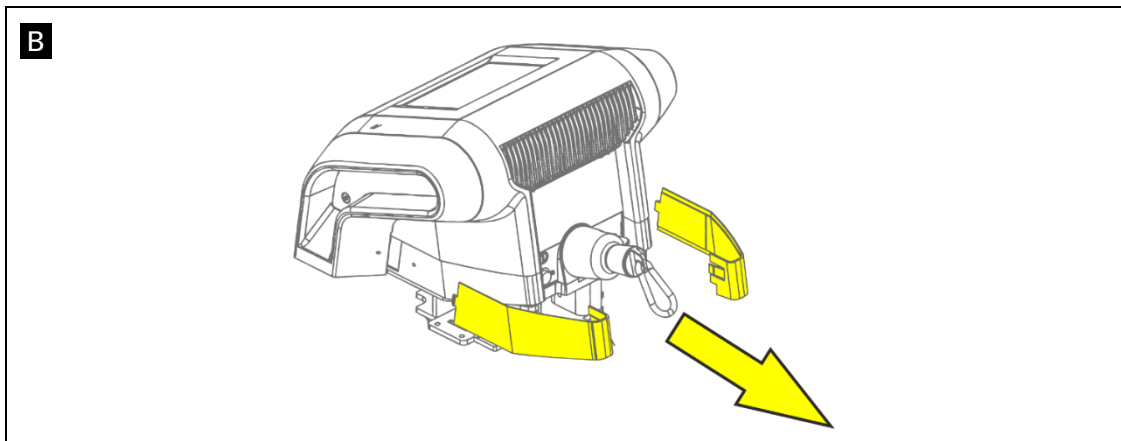
Components for the assembly can be found in the table “UNIT”, “SIT” and “ASY” in the chapter [1.3 Required Tools and Components](#).

NOTE: Configuration with Unit placed left was selected for the procedure demonstration. Procedure for other configurations is equivalent.

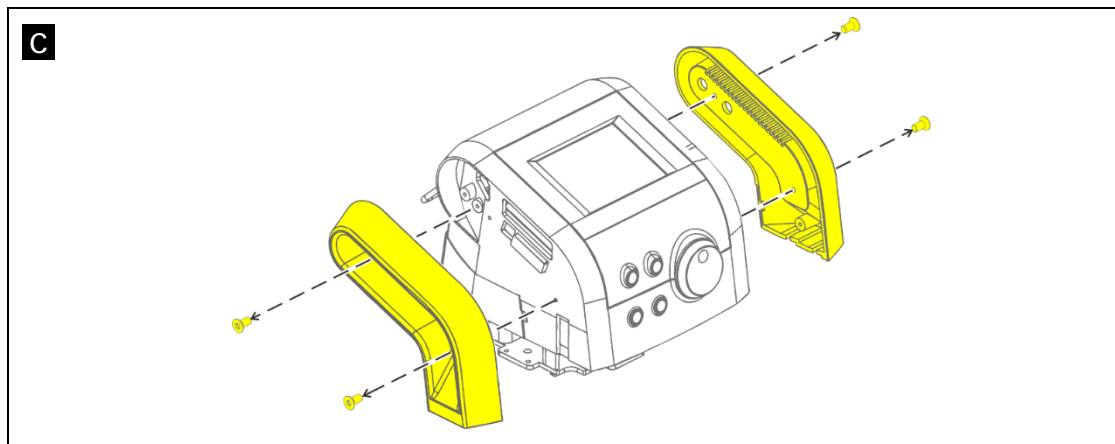
(A) Place the Unit on the Console and secure it by four screws M8x20 (HX6) with washers.



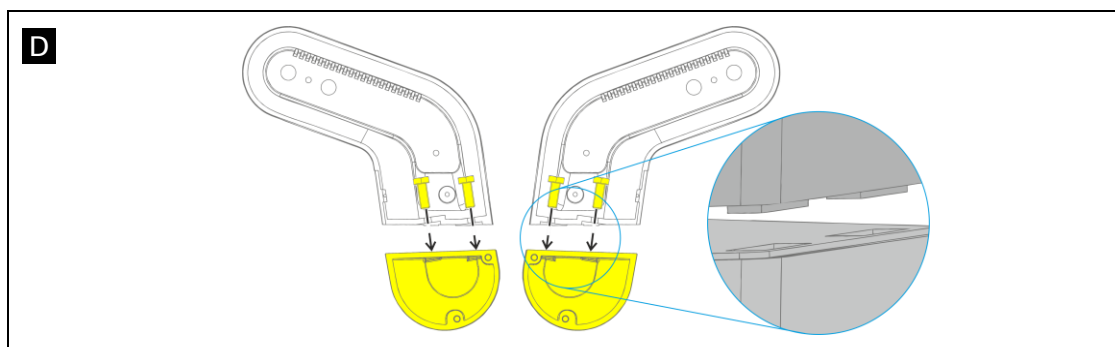
(B) Remove the Cover strips.



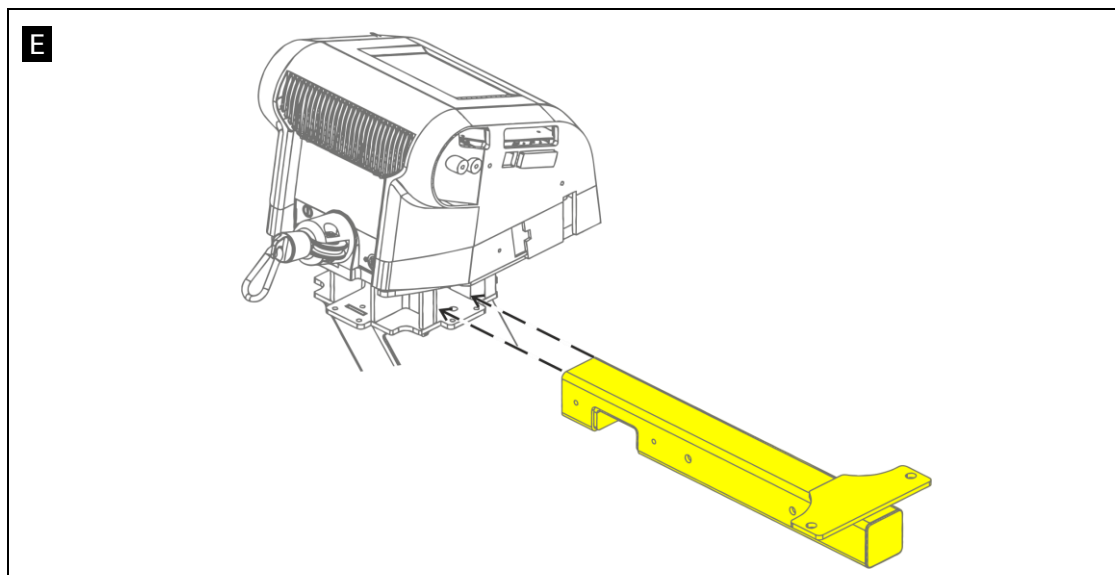
(C) Unscrew four screws M5x10 (TX25) and remove the Handles of the Unit.



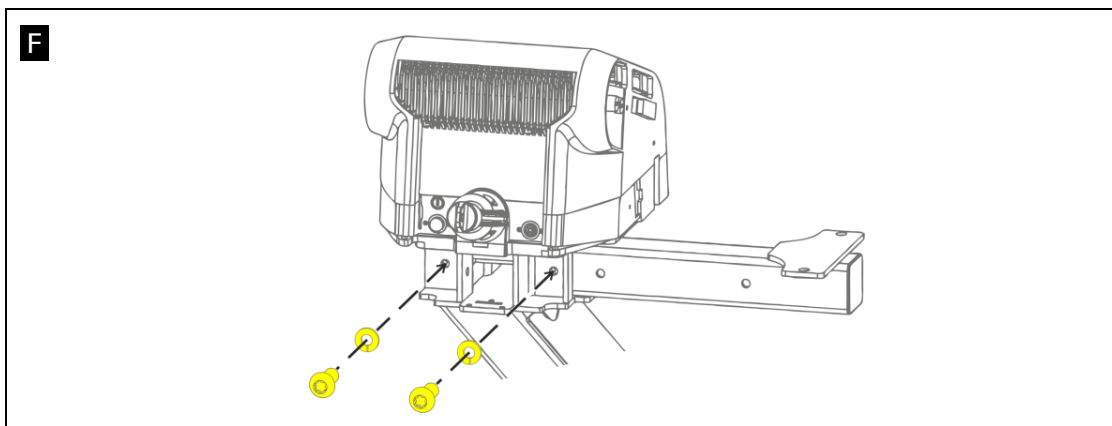
(D) Connect the Handles with their extensions using four screws M6x16 (Spanner 10 mm).



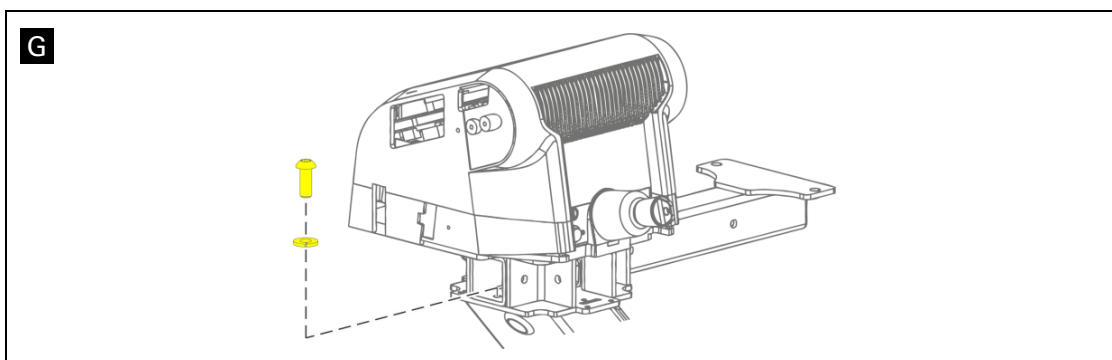
(E) Insert the Base beam inside the Console from the side which faces the Couch.



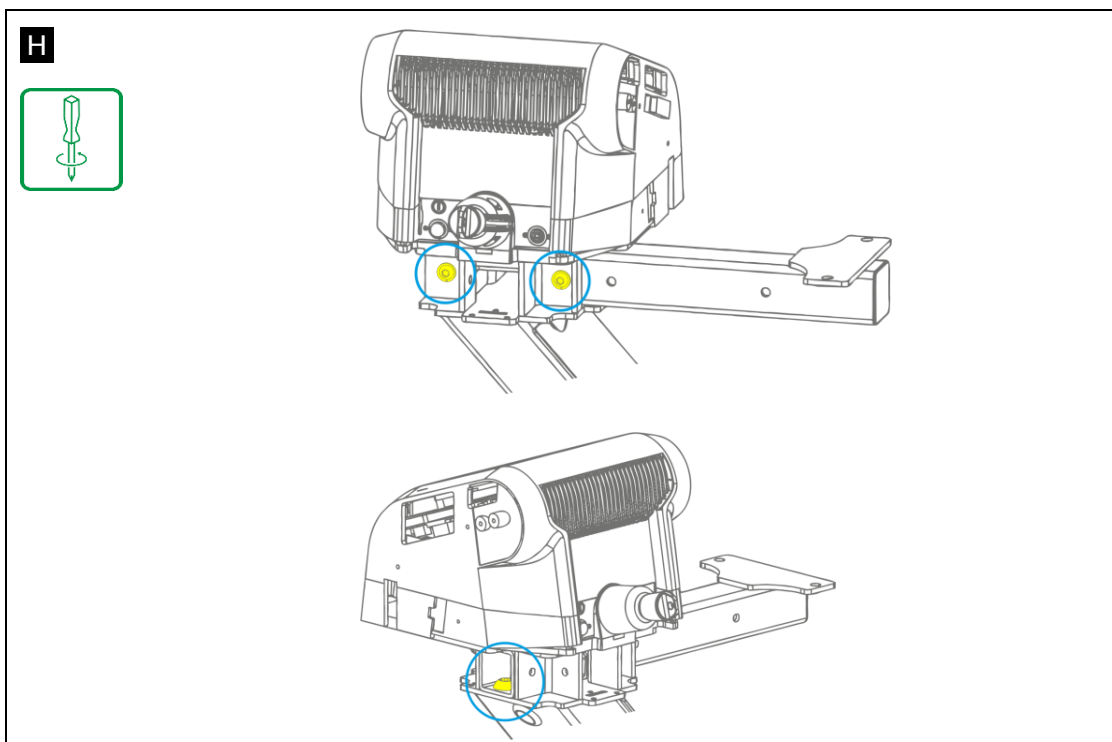
(F) Secure the Base beam by two screws M6x12 (TX30) with a spring lock washers. Fasten the screws only half way.



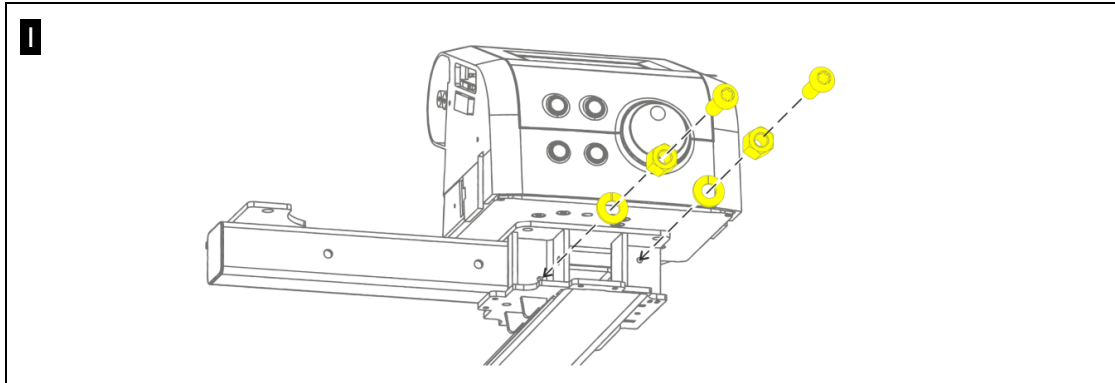
(G) Secure the front part of the Base beam with screw M6x12 (TX30) and washer M6. Fasten the screw only half way.



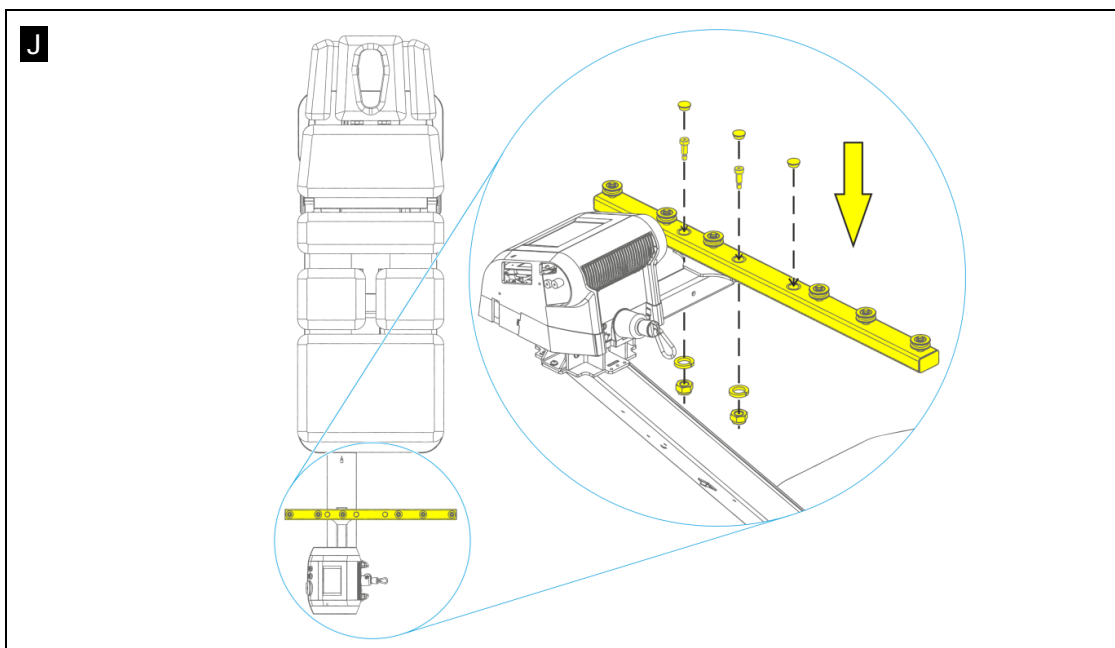
(H) Fasten three screws M6x12 (TX30) the whole way.



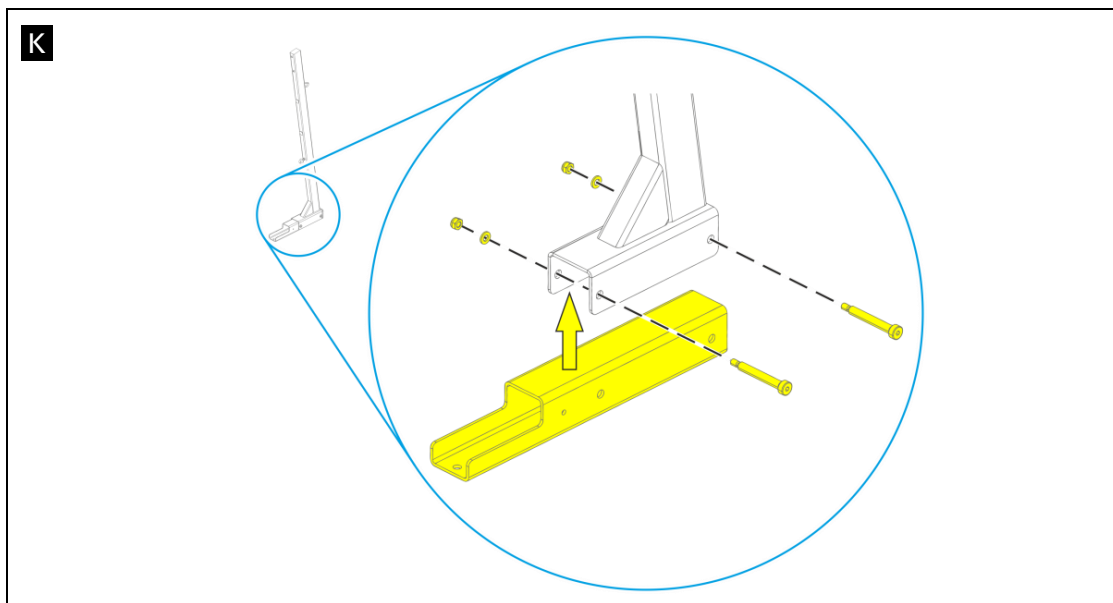
(I) Secure the Base beam by two thrust screws M6x20 (TX30) with contra nuts M6 and washers. After fastening the screws completely, tighten also the contra nuts M6 (Spanner 10 mm).



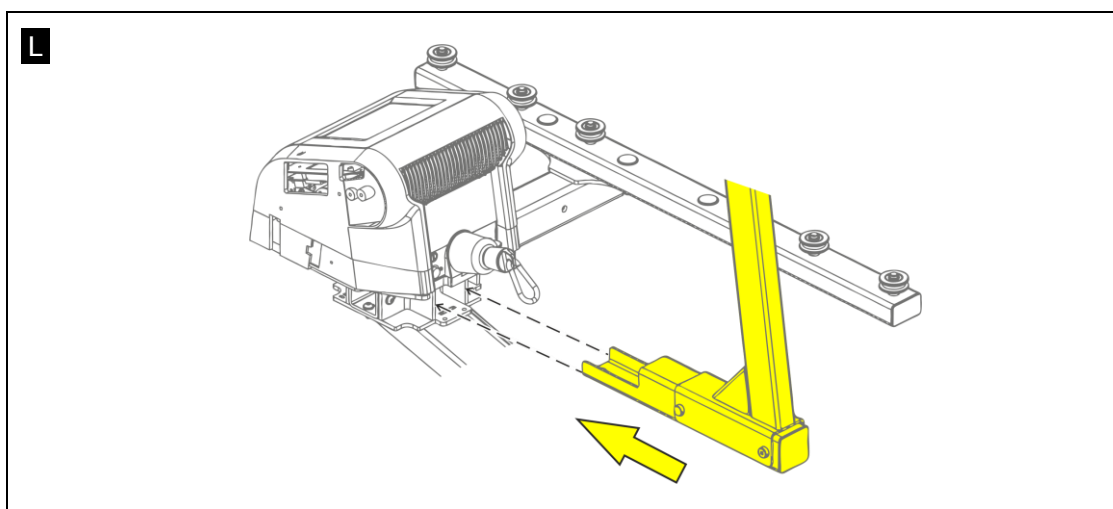
(J) Mount the Transverse beam on the Base beam using two bolts M8x20 (HX5), washers and lock nuts M8 (Spanner 13 mm). After the bolts are secured, cover the three bolt openings in the Transverse beam by the plastic caps.



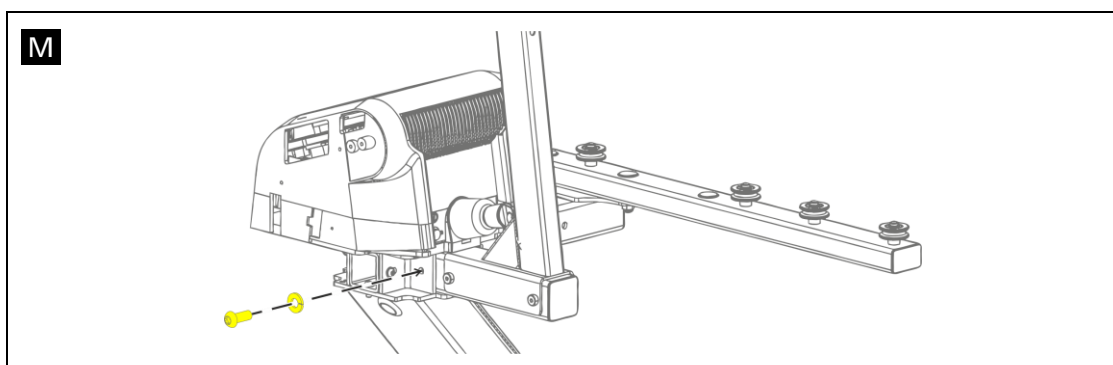
(K) Assemble the Lower and Middle beam of the SIT using two bolts M6x55 (HX6) with washers and nuts M6.



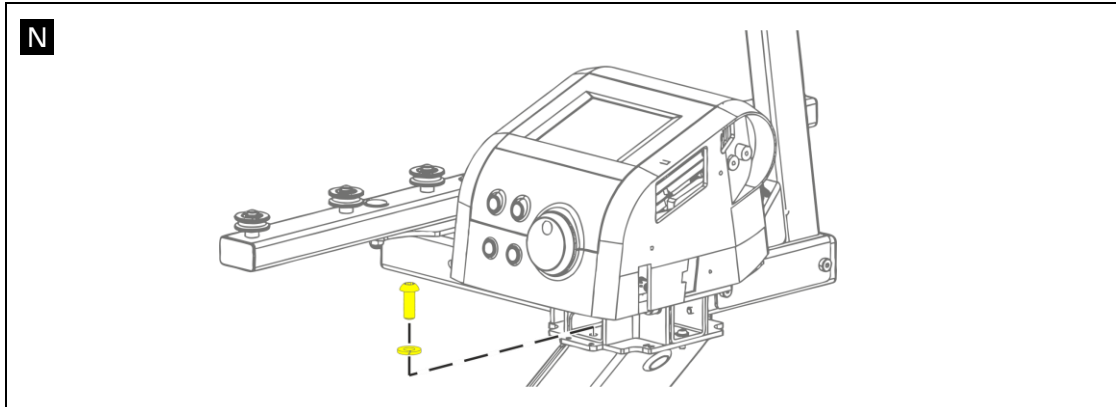
(L) Insert the SIT inside the Console.



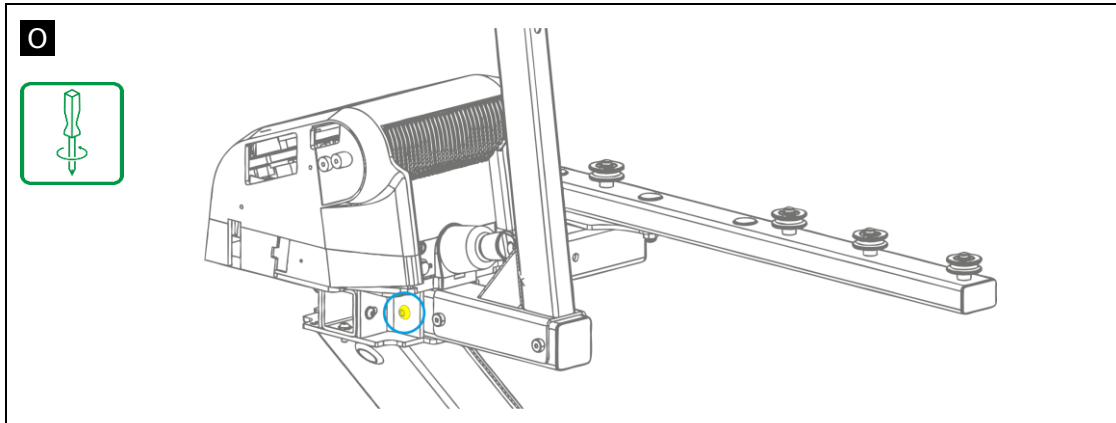
(M) Secure the SIT with the screw M6x12 (TX30) with washer M6. Fasten the screw only half way.



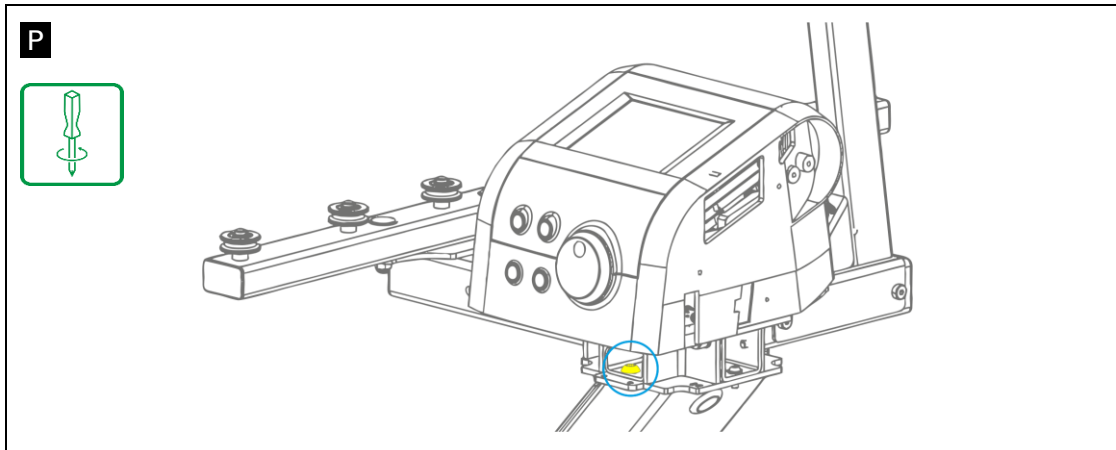
(N) Secure the front part of the SIT by the screw M6x12 (TX30) and washer. Fasten the screw only half way.



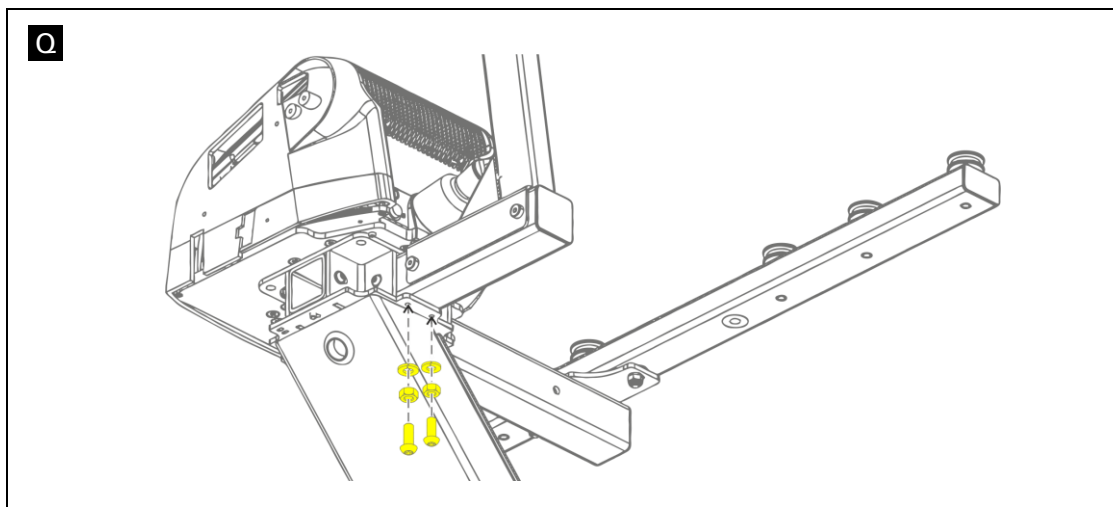
(O) Fasten the screw M6x12 (TX30) the whole way.



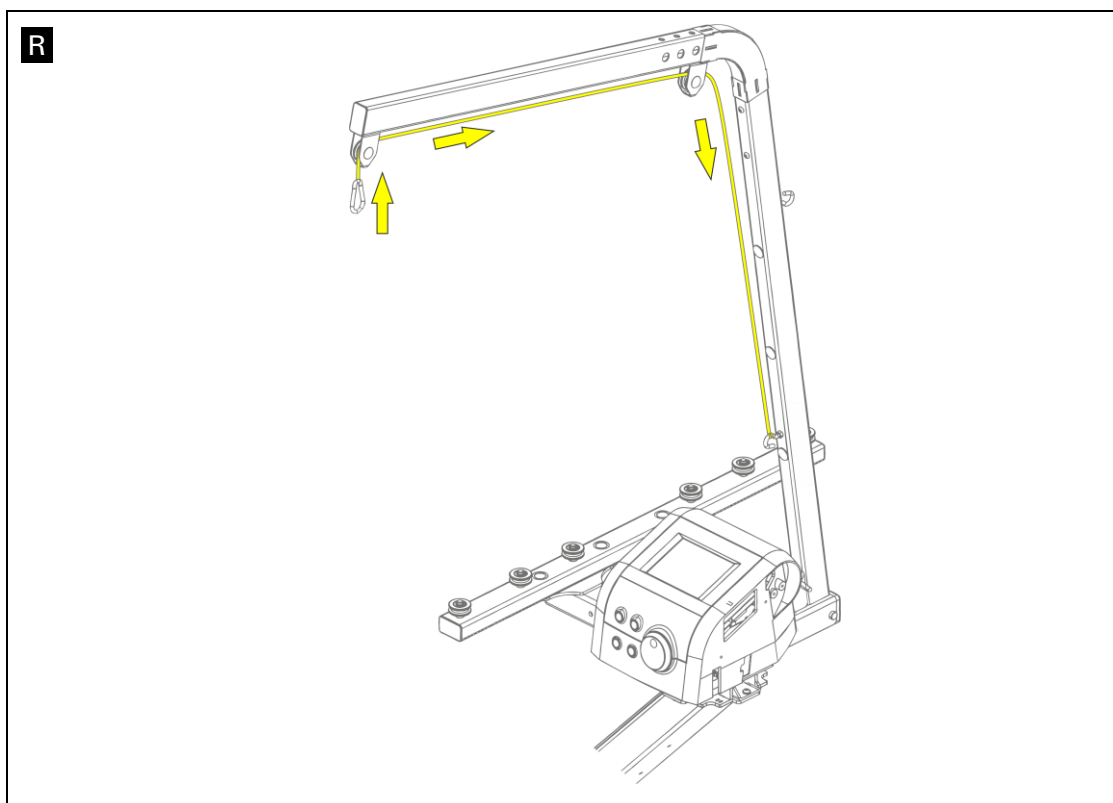
(P) Fasten the screw M6x12 (TX30) the whole way.



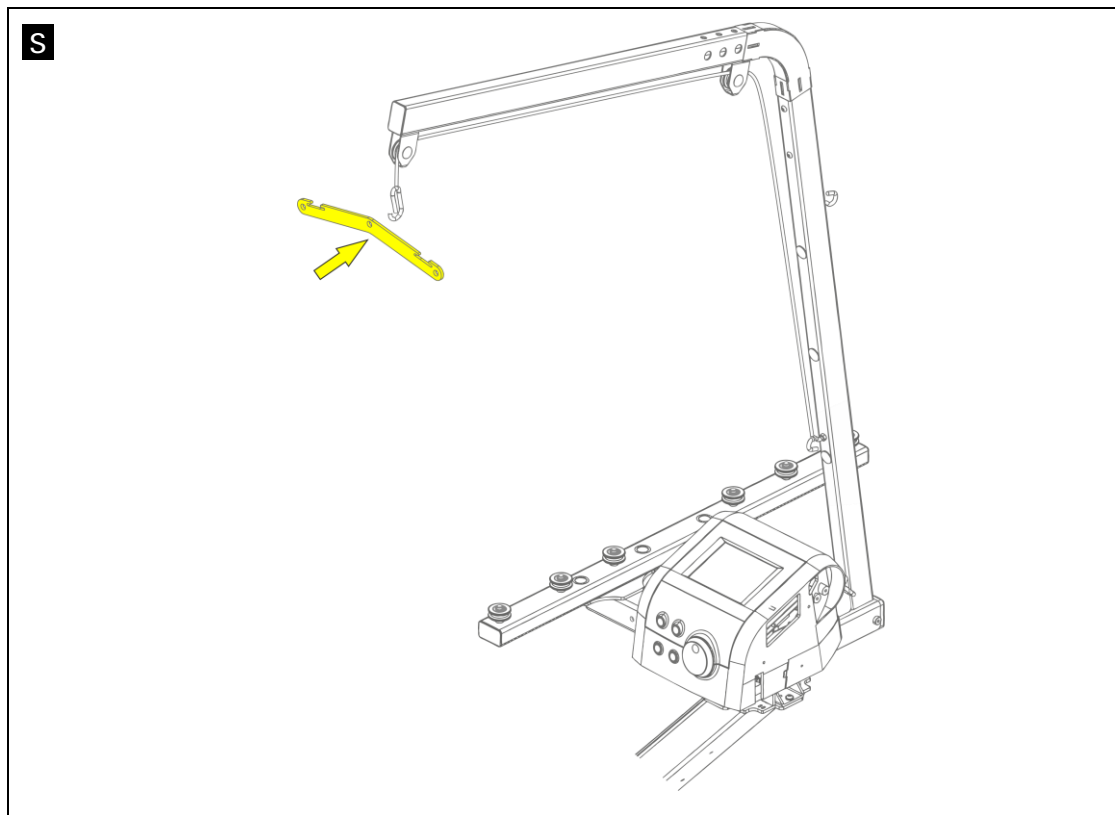
(Q) Secure the SIT with two screws M6x16 (TX30) and nut M6 with washer. After fastening the screws completely, tighten also the contra nuts M6 (Spanner 10mm).



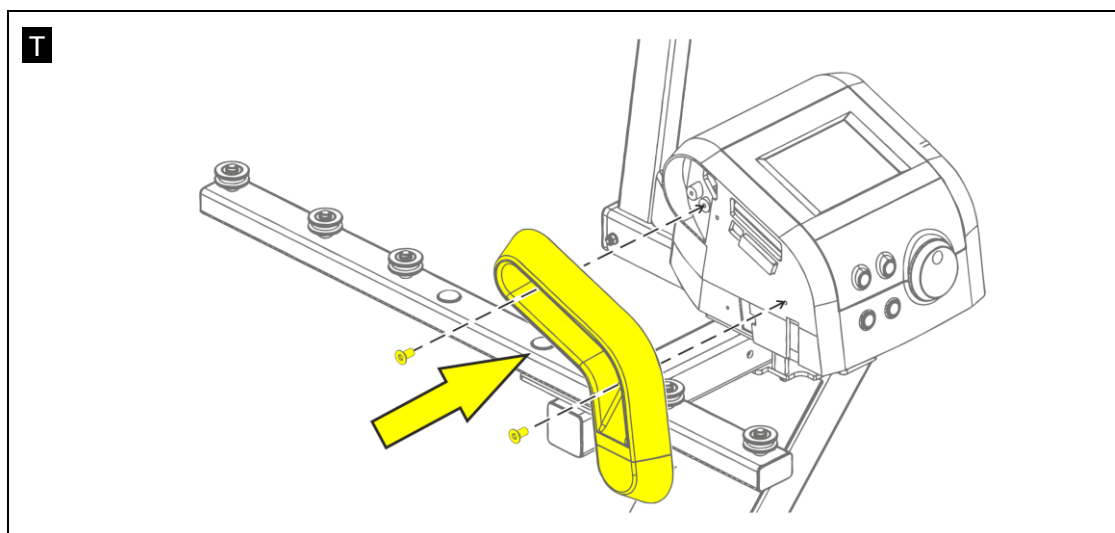
(R) Insert the string with carabiner and fix it to the SIT.



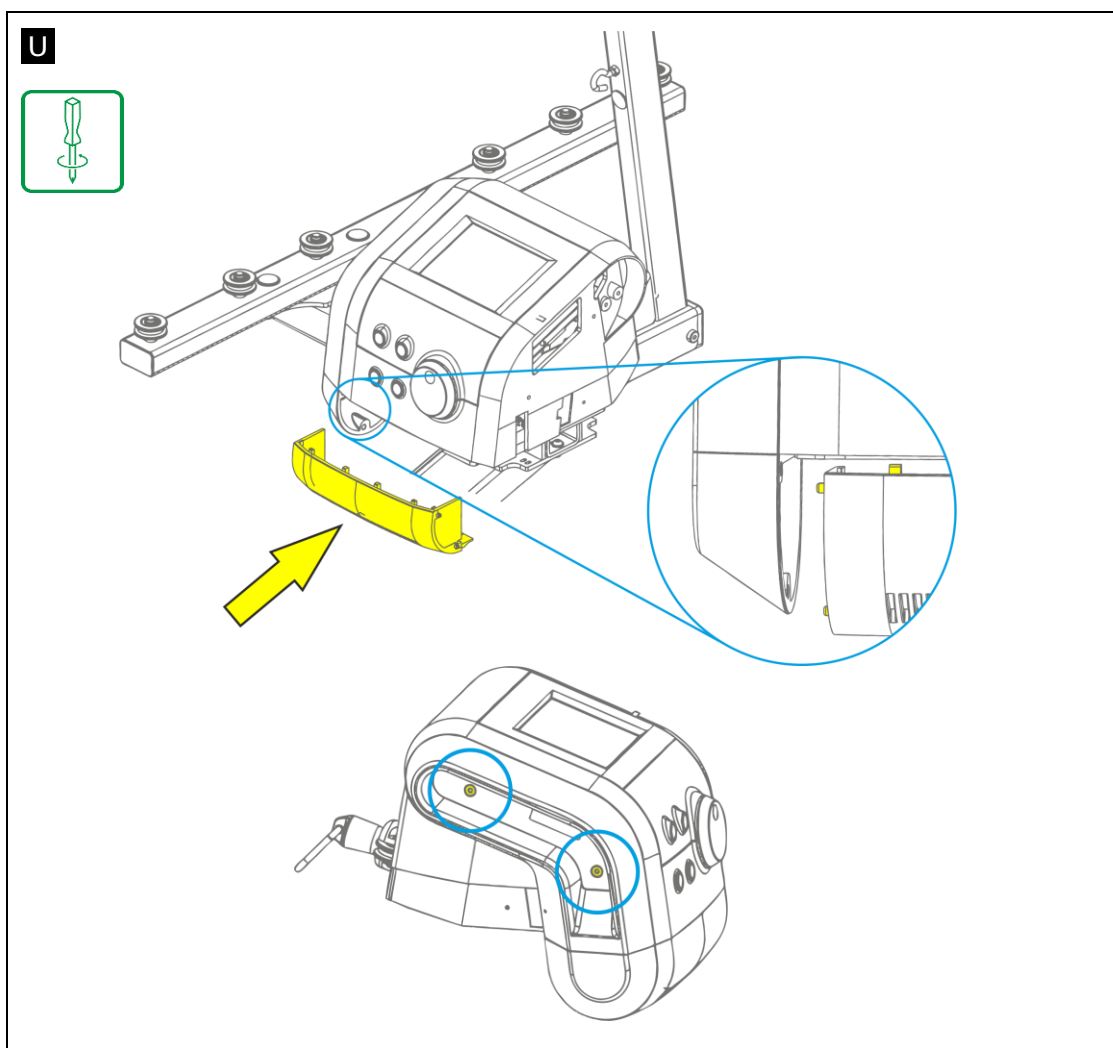
(S) Insert the Spreader bar into the carabiner.



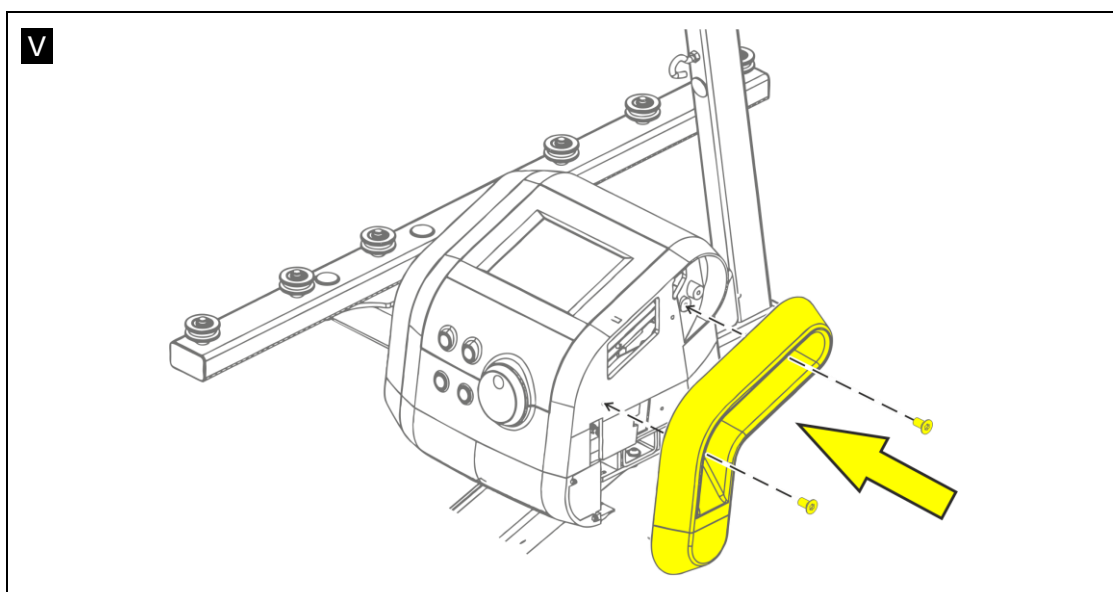
(T) Mount left Handle to the Unit. Fasten two screws M5x10 (TX25) only half way.



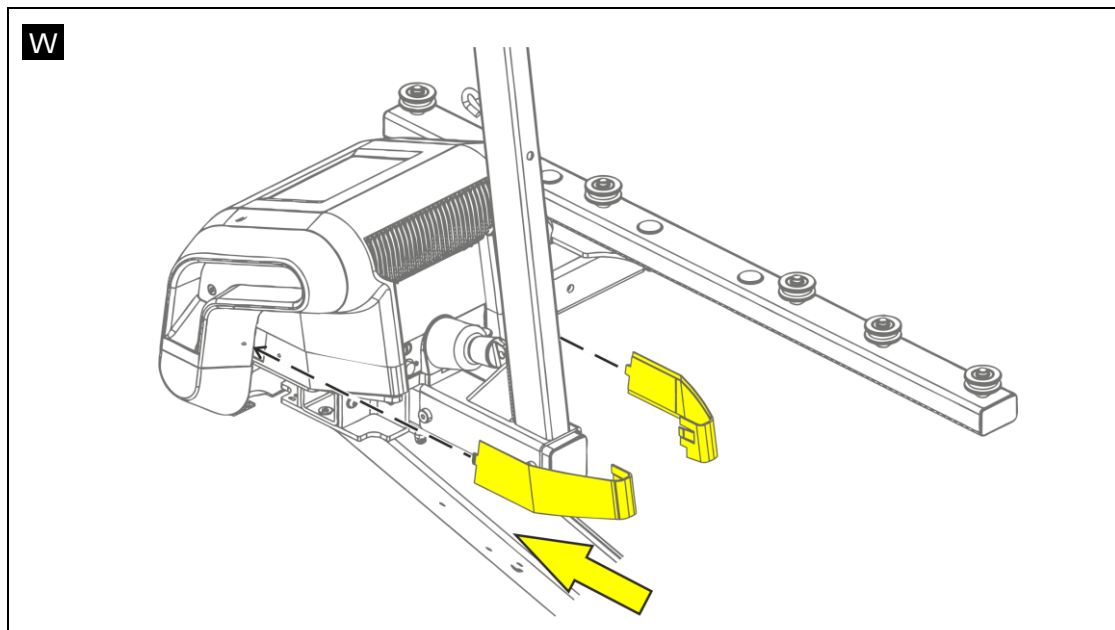
(U) Fit the Front cover in the Handle insertions. Hold the Front cover and fasten two screws M5x10 (TX25) of the Handle the whole way.



(V) Secure the second Handle using two screws M5x10 (TX25).



(W) Slide the Cover strips in the designated slits.



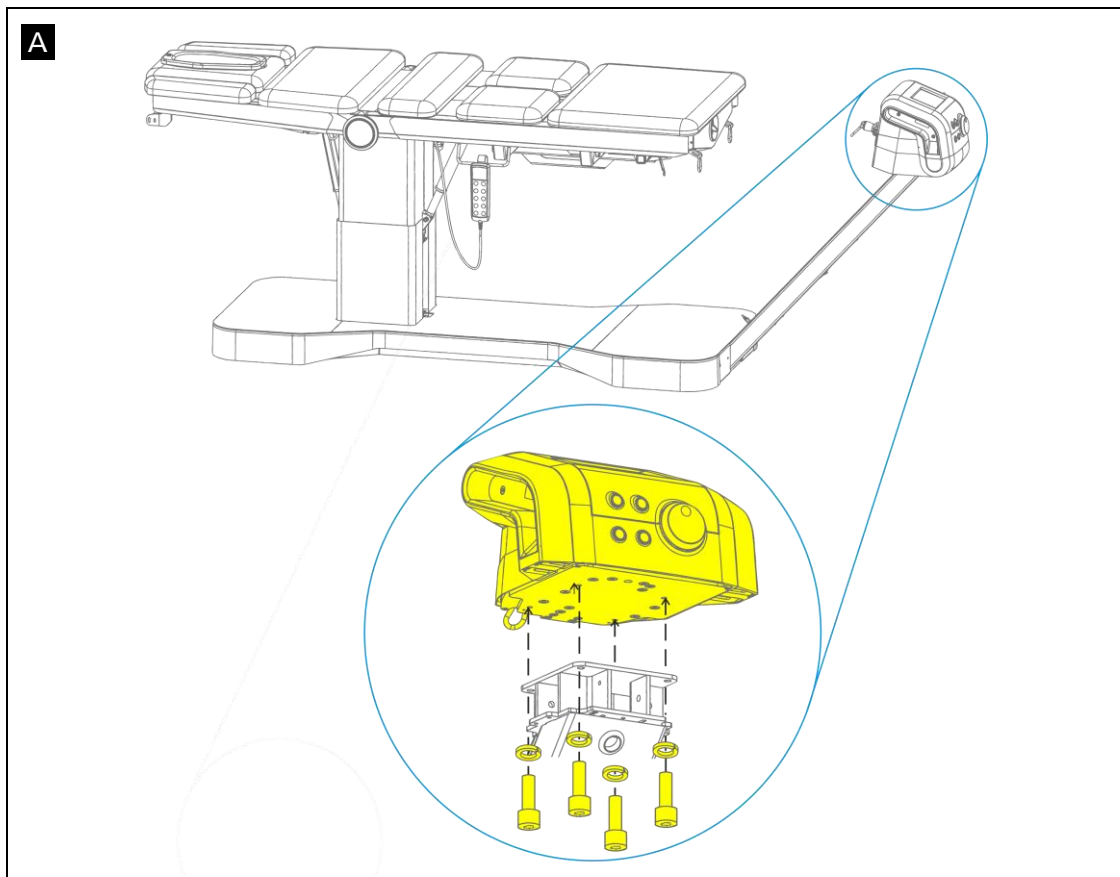
UNIT IN CENTER – SIT PLACED LEFT – ASY

UNIT IN CENTER – SIT PLACED RIGHT – ASY

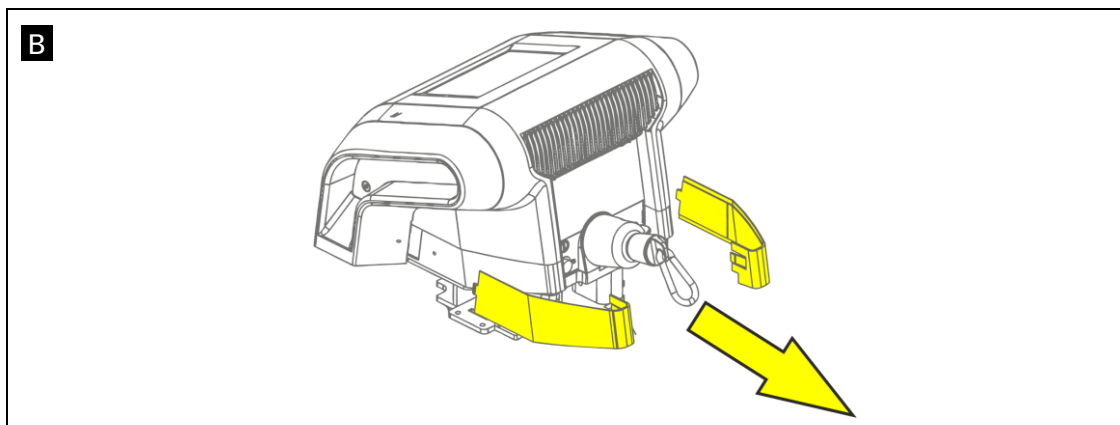
Components for the assembly can be found in the table “UNIT”, “SIT” and “ASY” in the chapter [1.3 Required Tools and Components](#).

NOTE: Configuration with SIT placed right was selected for the procedure demonstration. Procedure for other configurations is equivalent.

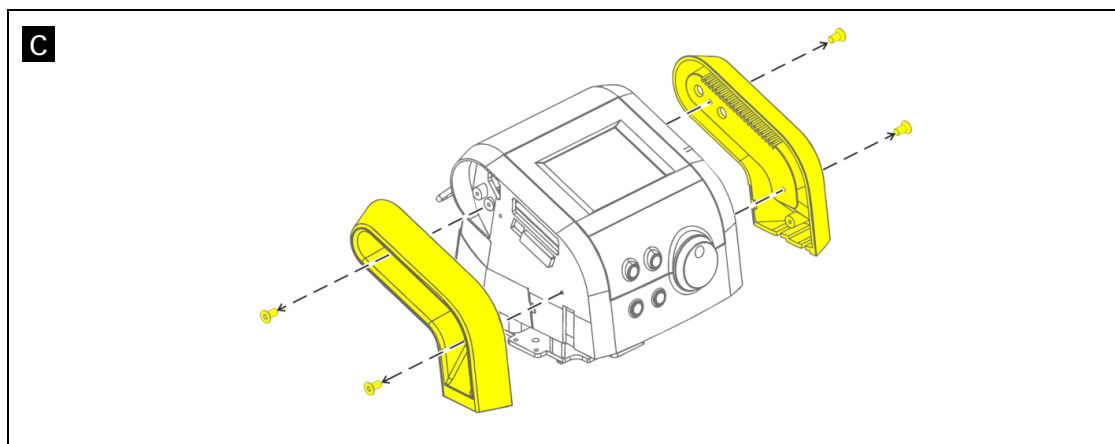
(A) Place the Unit on the Console and secure it by four screws M8x20 (HX6) with washers.



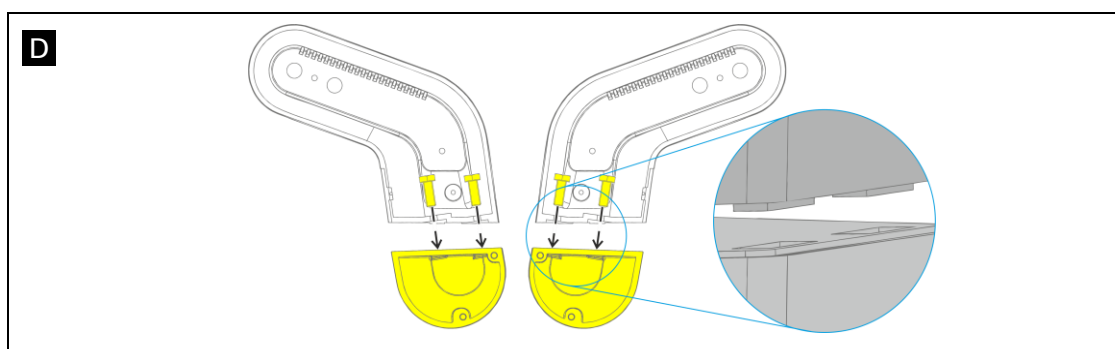
(B) Remove the Cover strips.



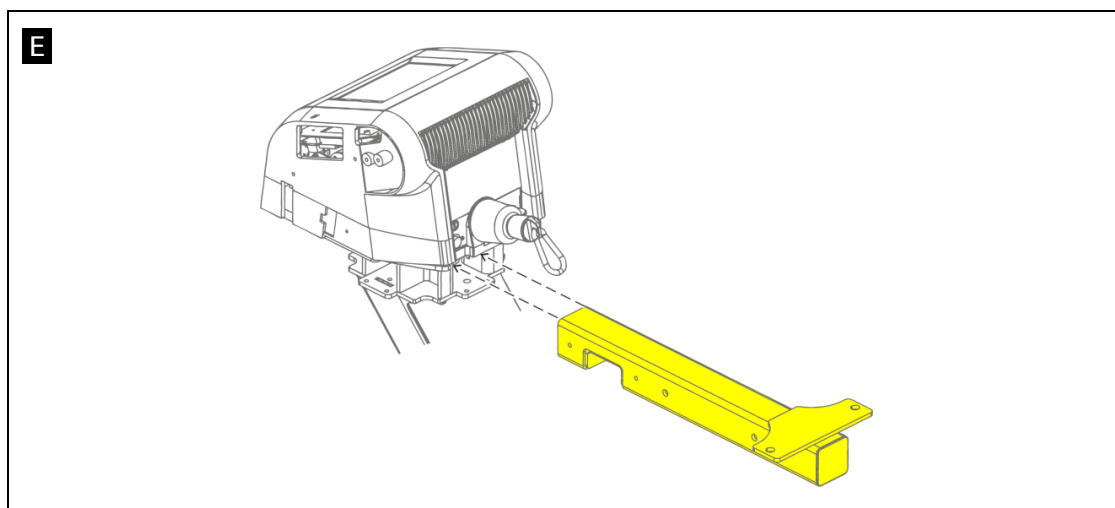
(C) Unscrew four screws M5x10 (TX25) and remove the Handles of the Unit.



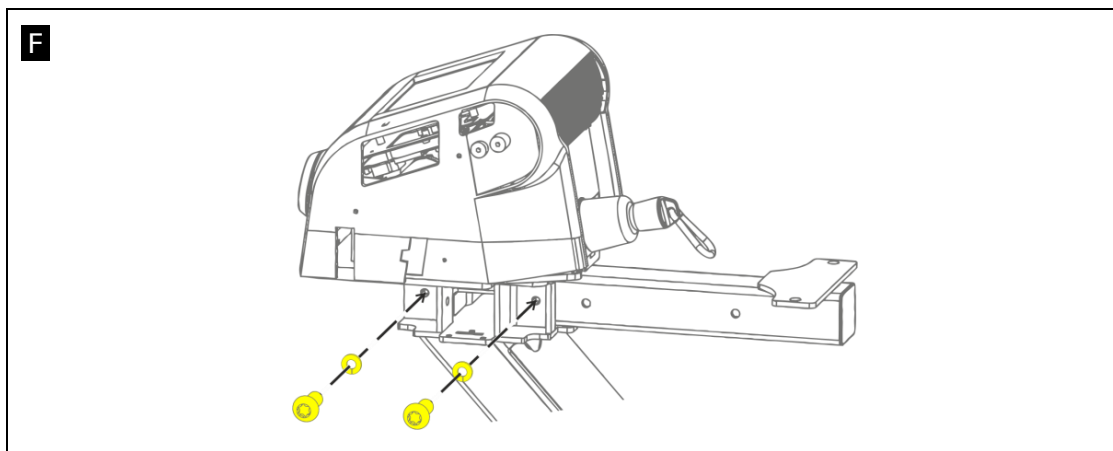
(D) Connect the Handles with their extensions. Using four screws M6x16 (Spanner 10 mm).



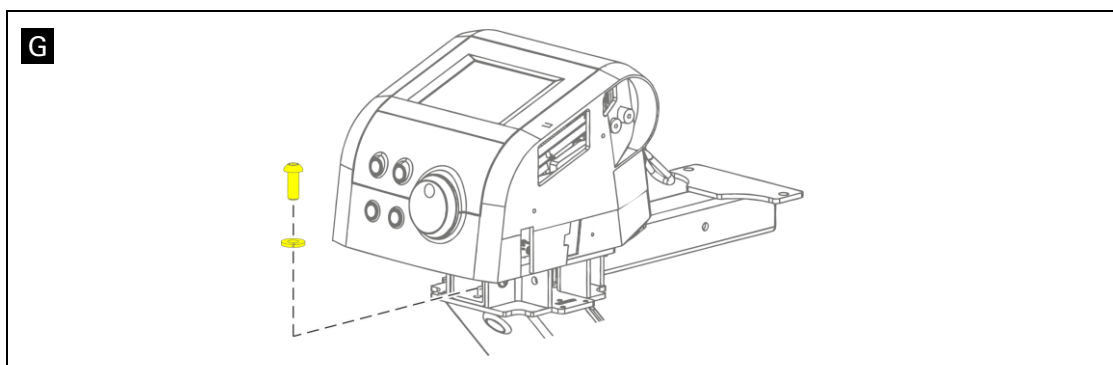
(E) Insert the Base beam inside the Console from the side which faces the couch.



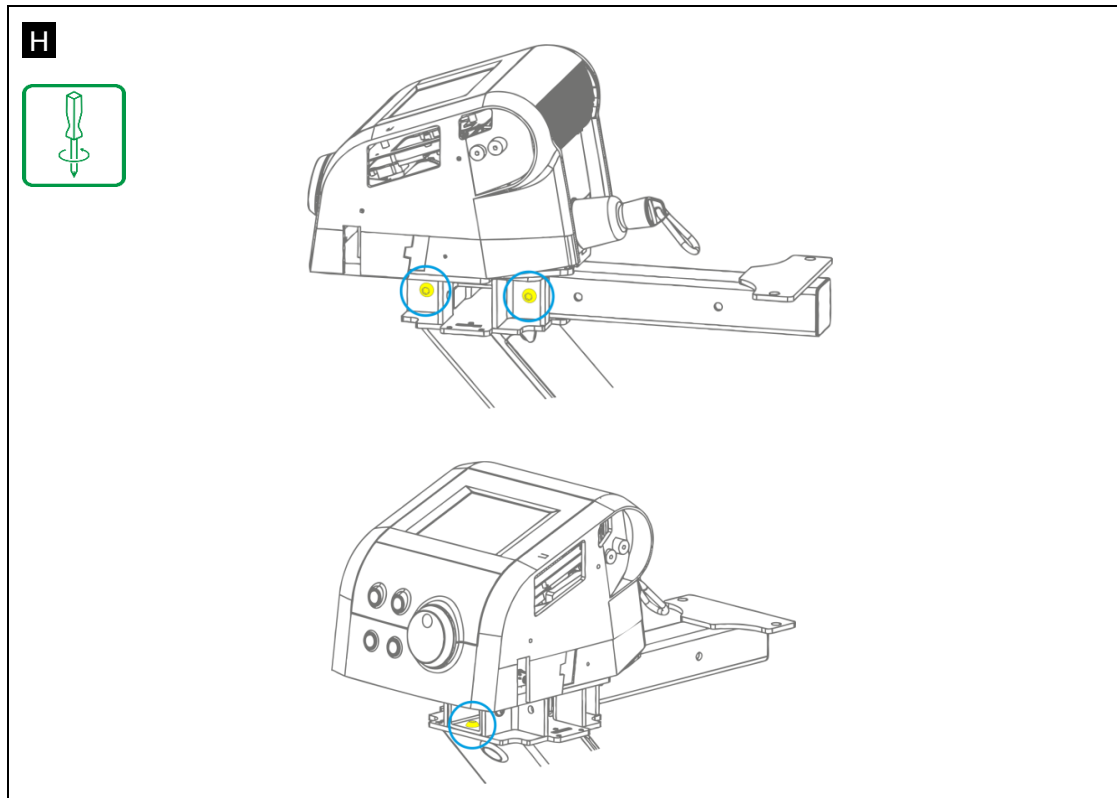
(F) Secure the Base beam by two screws M6x12 (TX30) with a spring lock washers. Fasten the screws only half way.



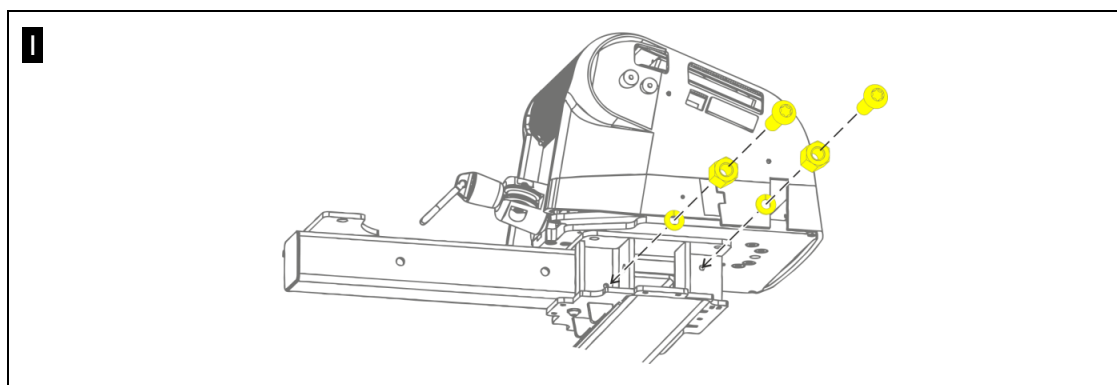
(G) Secure the front part of the Base beam with screw M6x12 (TX30) and washer M6. Fasten the screw only half way.



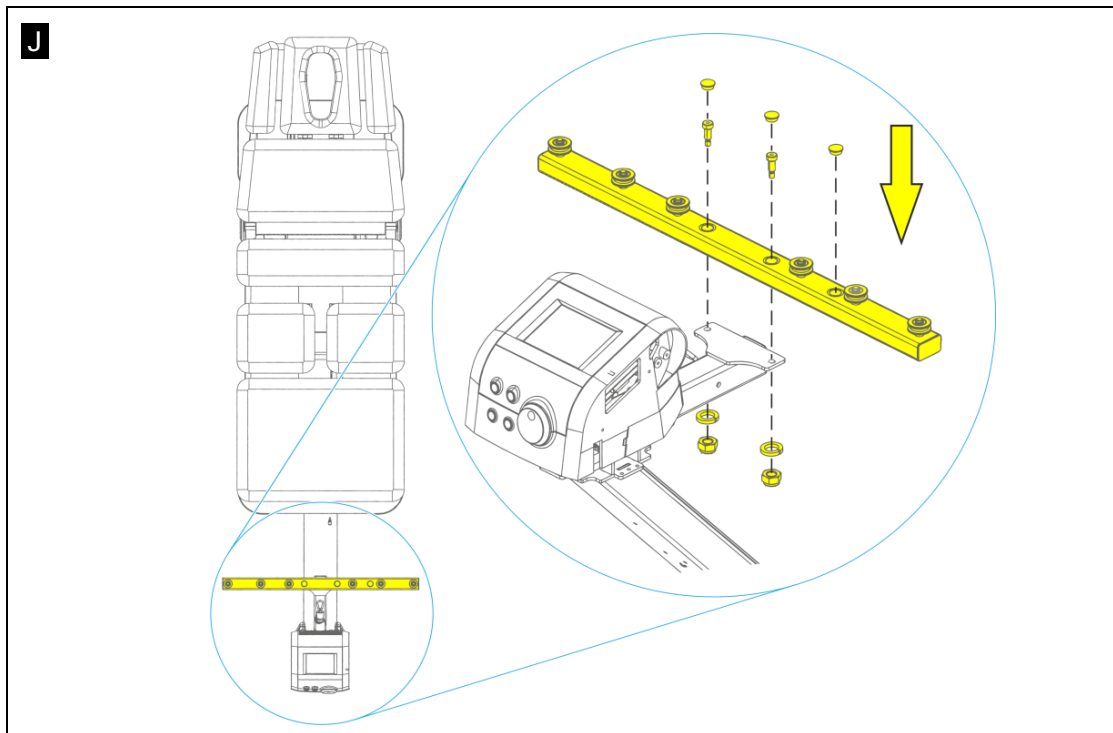
(H) Fasten three screws M6x12 (TX30) the whole way.



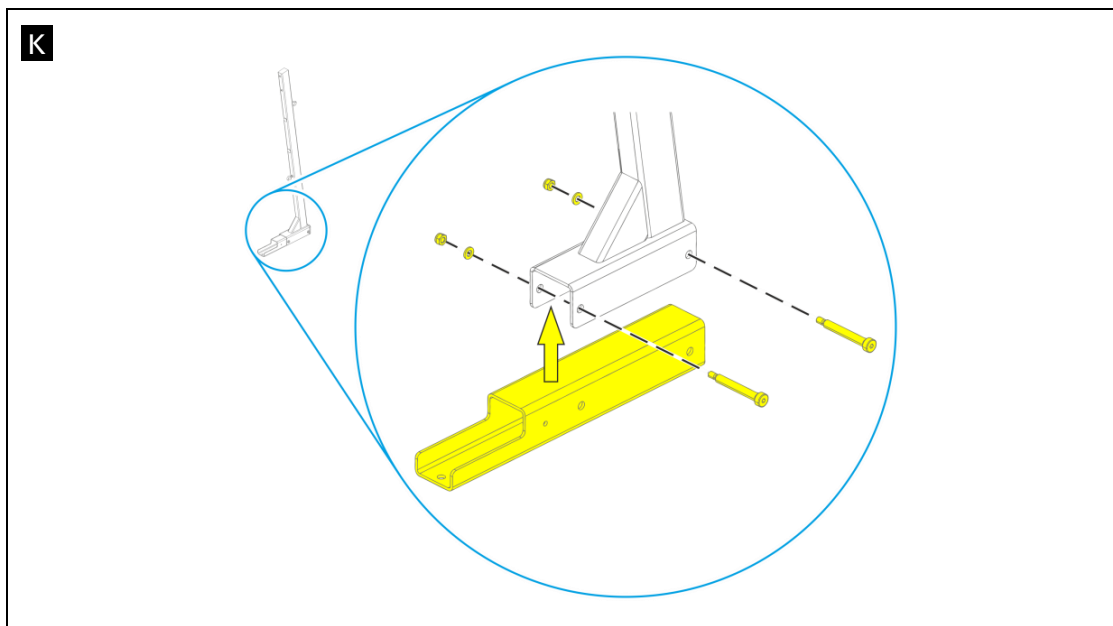
(I) Secure the Base beam by two thrust screws M6x20 (TX30) with contra nuts M6 and washer. After fastening the screws completely, tighten also the contra nuts M6 (Spanner 10 mm).



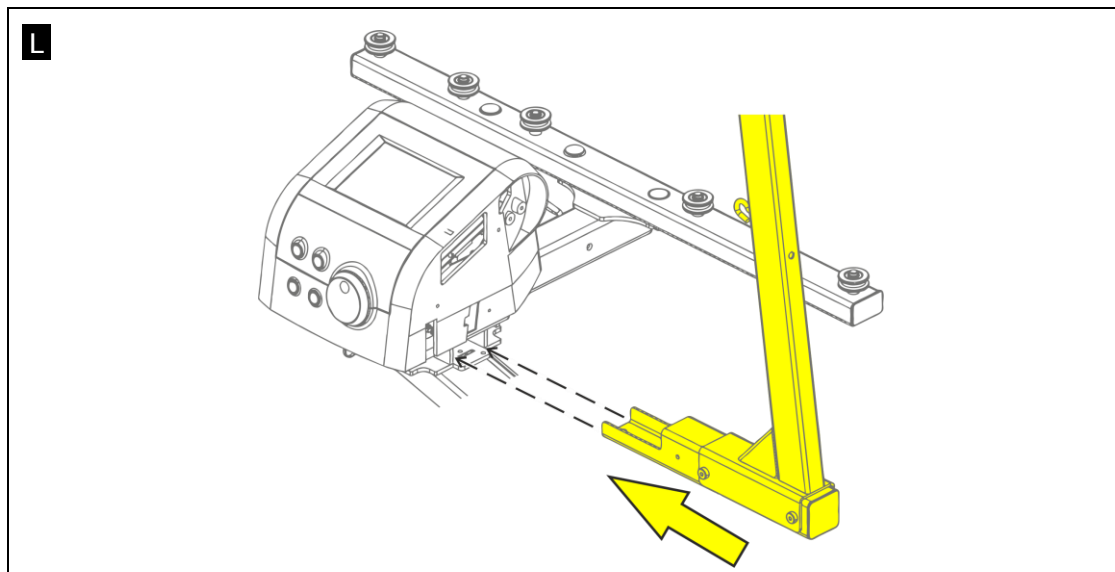
(J) Mount the Transverse beam on the Base beam using two bolts M8x20 (HX5), washers and lock nuts M8 (Spanner 13 mm). After the bolts are secured, cover the three bolt openings in the Transverse beam by the plastic caps.



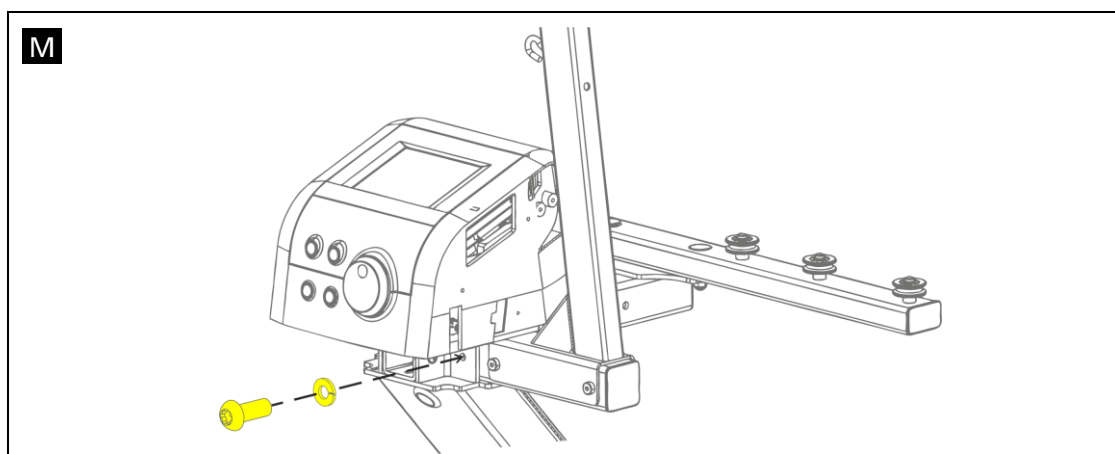
(K) Assemble the Lower and Middle beam of the SIT using two bolts M6x55 (HX6) with washers and nuts M6.



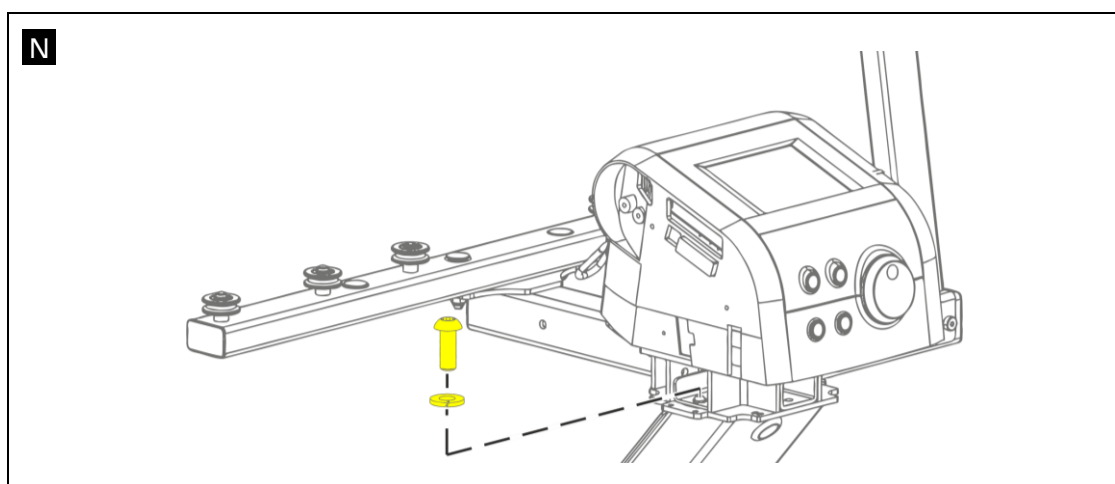
(L) Insert the SIT inside the Console.



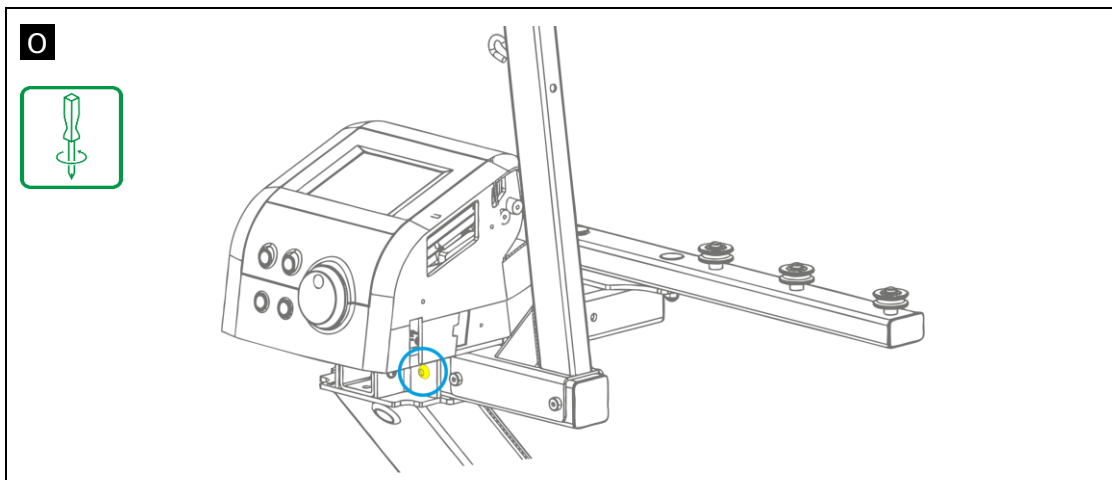
(M) Secure the SIT with the screw M6x12 (TX30) with washer M6. Fasten the screw only half way.



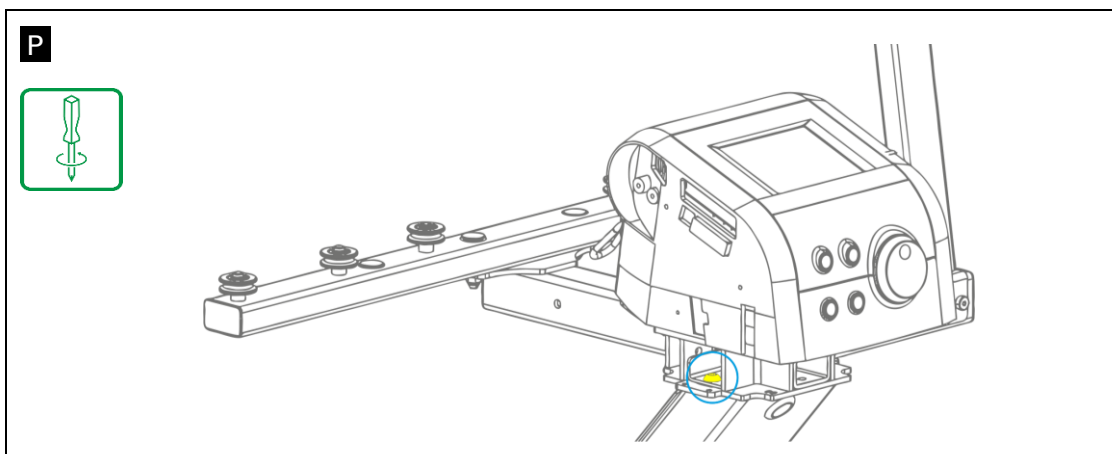
(N) Secure the front part of the SIT by the screw M6x12 (TX30) and washer M6. Fasten the screw only half way.



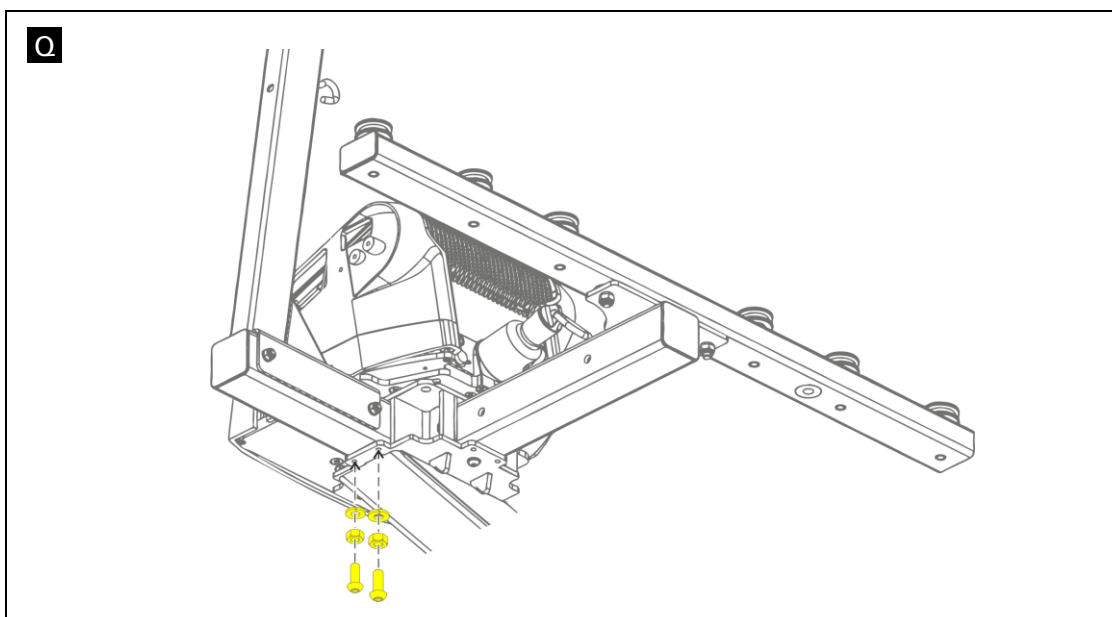
(O) Fasten two screws M6x12 (TX30) the whole way.



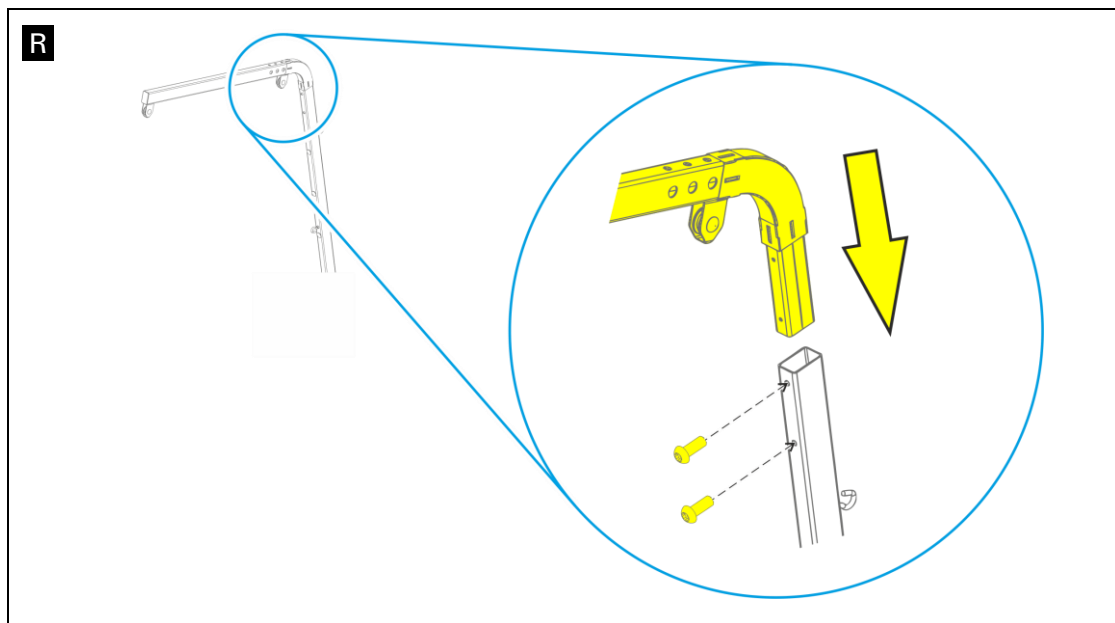
(P) Fasten the screw M6x12 (TX30) the whole way.



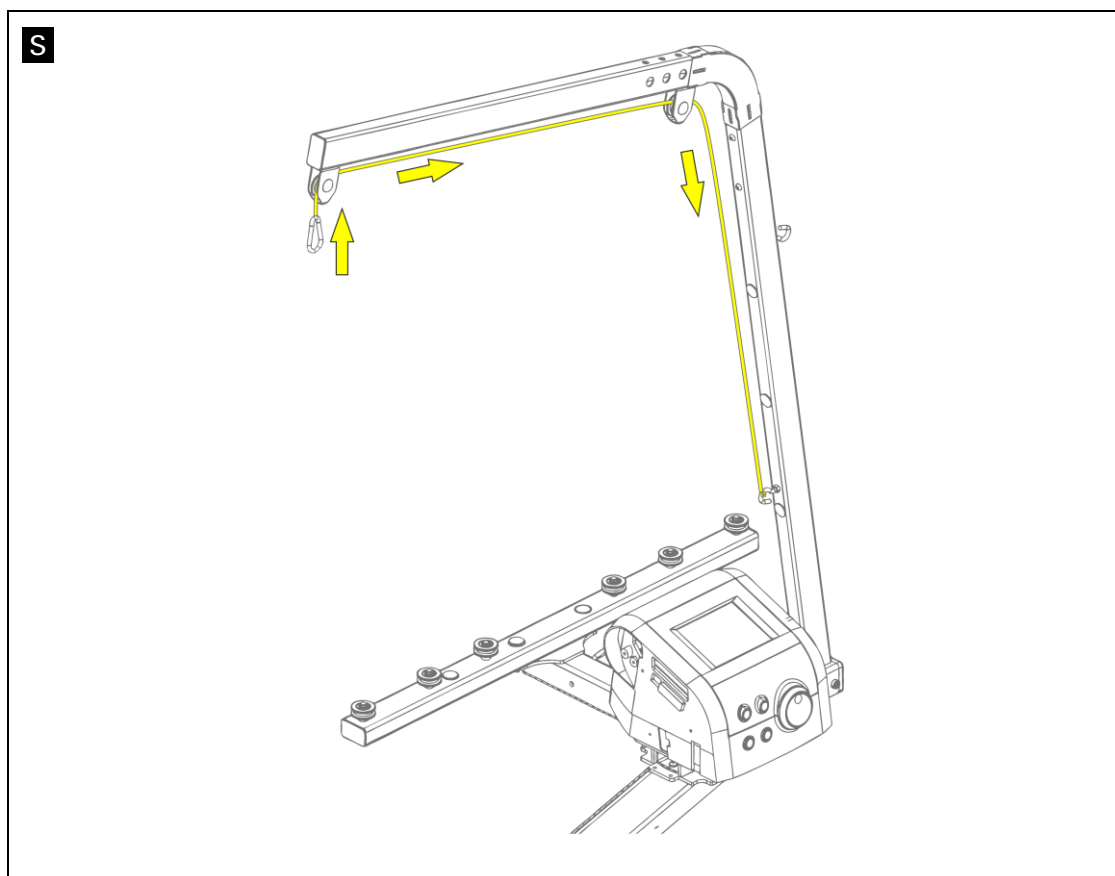
(Q) Secure the SIT with two screws M6x16 (TX30) and nut M6 with washer M6. After fastening the screws completely, tighten also the contra nuts M6 (Spanner 10 mm).



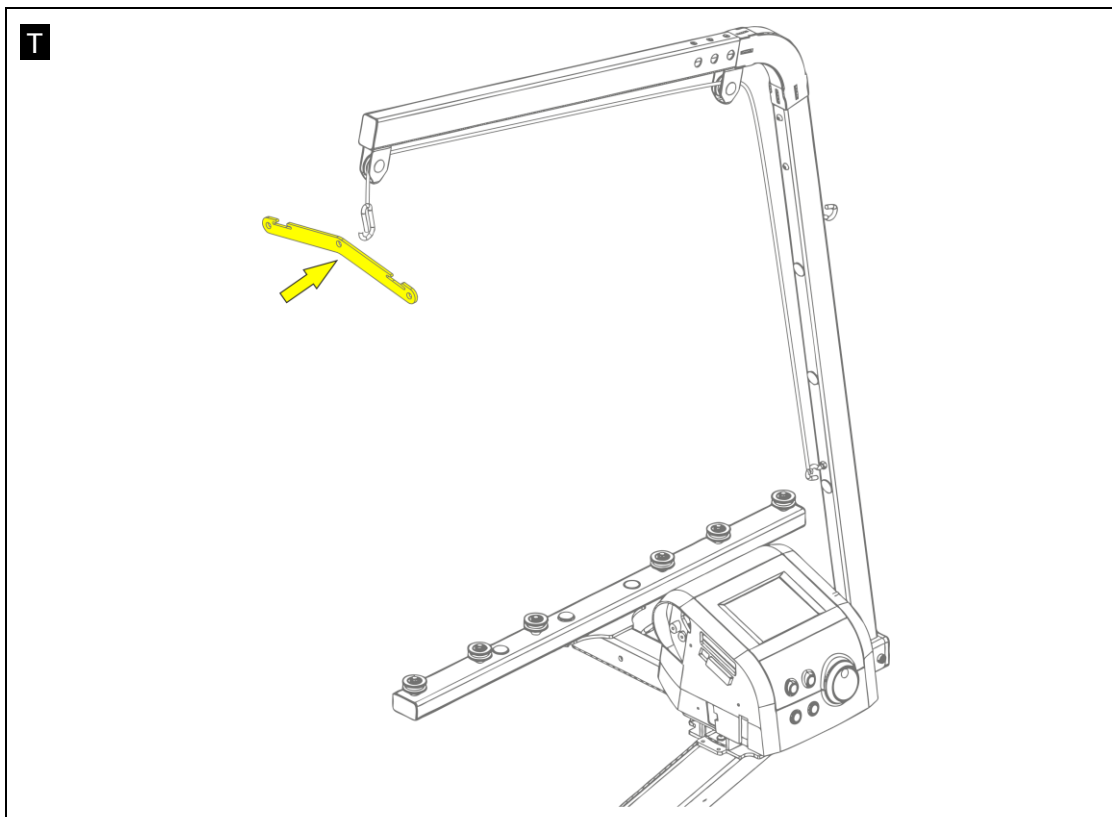
(R) Mount the Upper beam on the Middle beam of the SIT and secure it by two screws M6x16 (TX30).



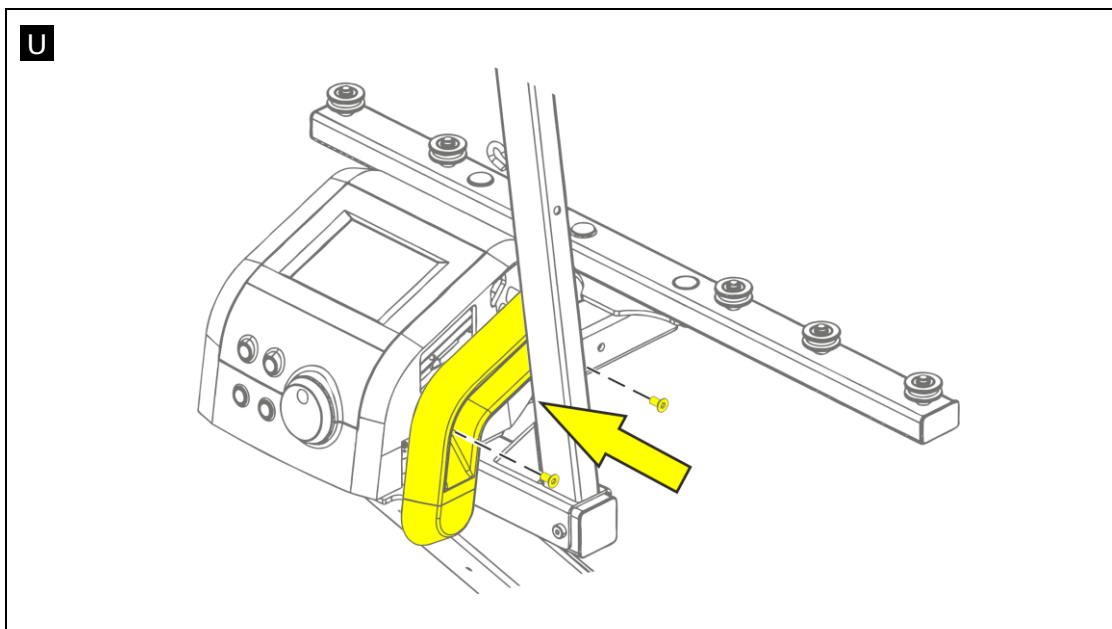
(S) Insert the string with carabiner and fix it to the SIT.



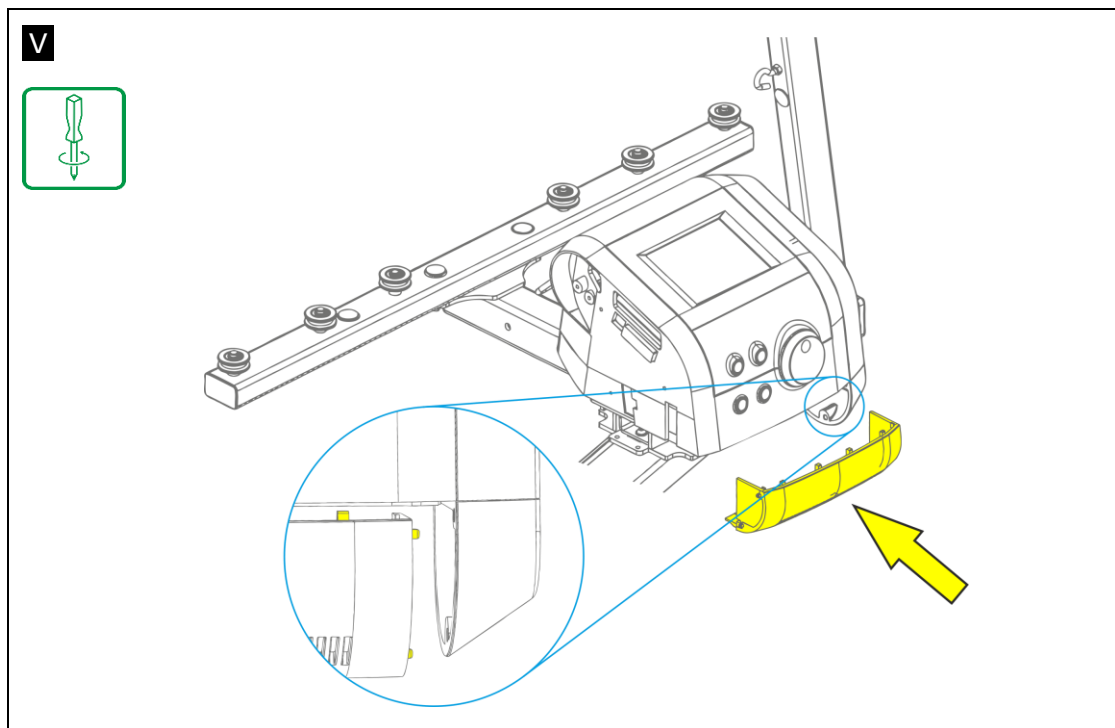
(T) Insert the Spreader bar into the carabiner.



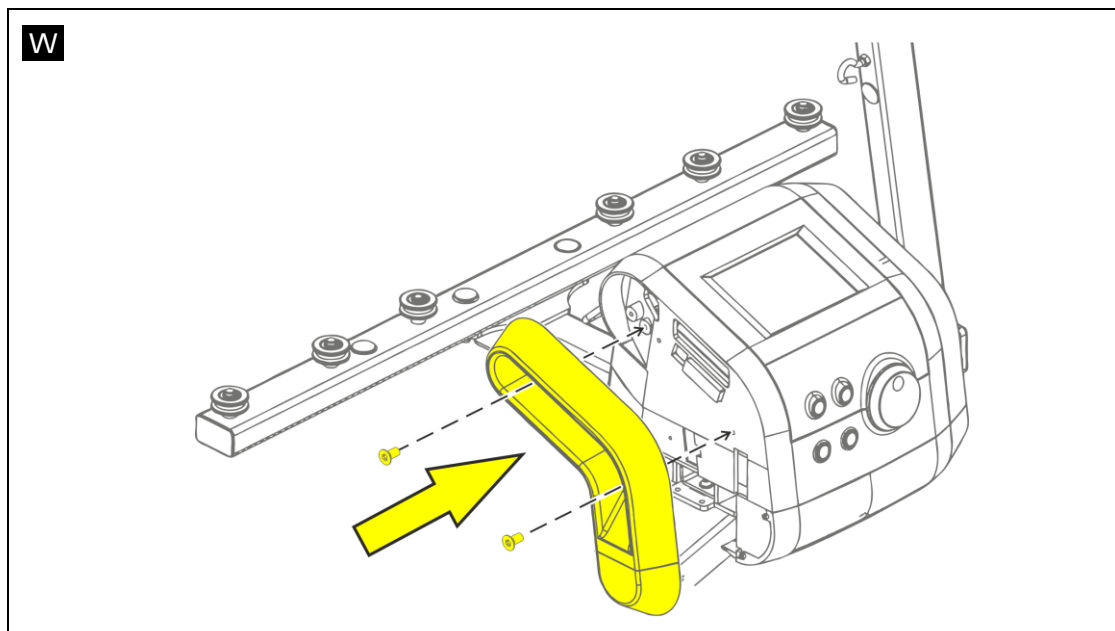
(U) Mount one Handle to the Unit. Fasten two screws M5x10 (TX25) only half way.



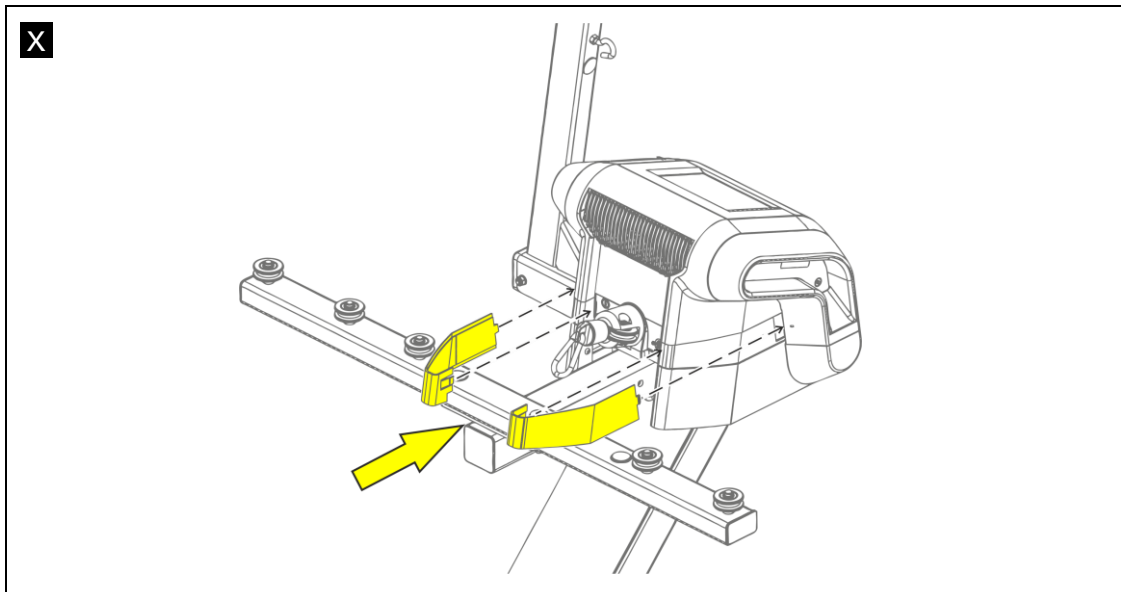
(V) Fit the Front cover in the Handle insertions. Hold the Front cover and fasten two screws M5x10 (TX25) of the Handle the whole way.



(W) Secure the second Handle using two screws M5x10 (TX25).



(X) Slide the Cover strips into the designated slits.



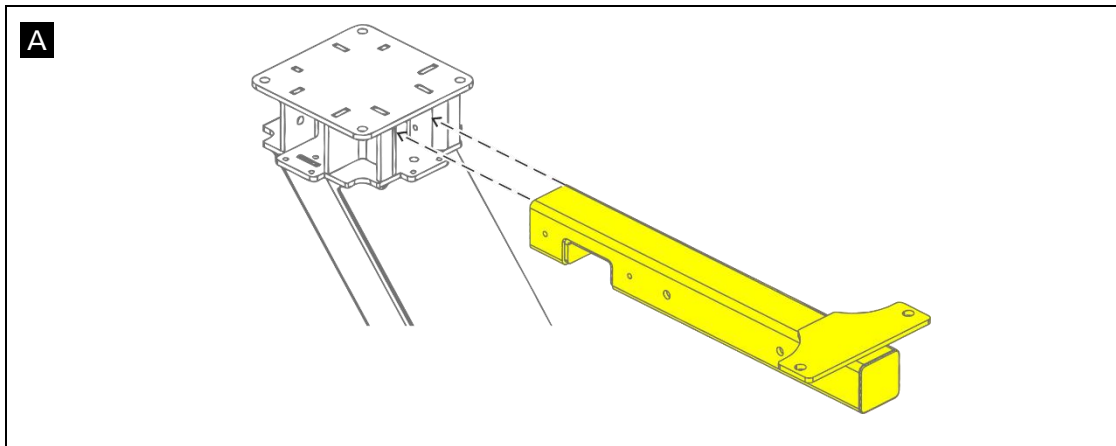
UNIT PLACED LEFT – SIT FROM LEFT – ASY

UNIT PLACED RIGHT – SIT FROM RIGHT – ASY

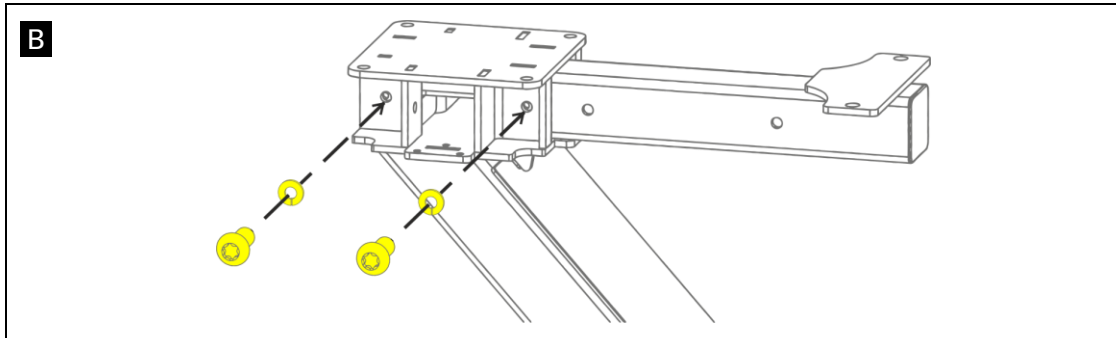
Components for the assembly can be found in the table “UNIT”, “SIT” and “ASY” in the chapter [1.3 Required Tools and Components](#).

NOTE: Configuration with Unit placed left was selected for the procedure demonstration. Procedure for other configurations is equivalent.

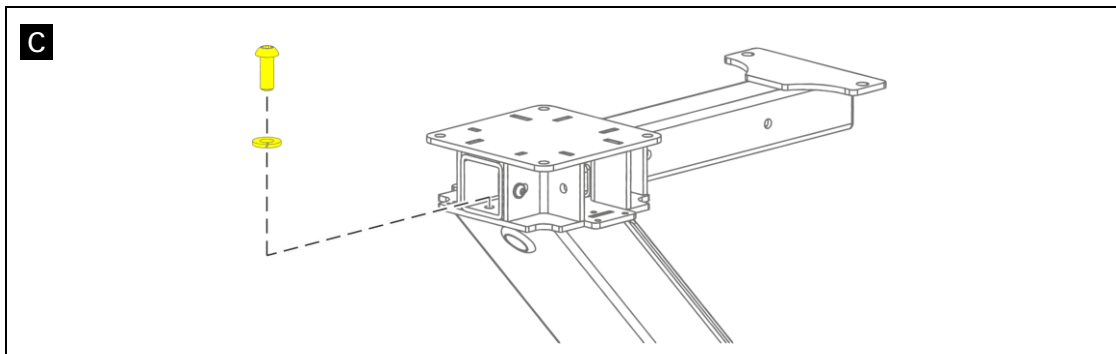
(A) Insert the Base beam inside the Console from the side which faces the couch.



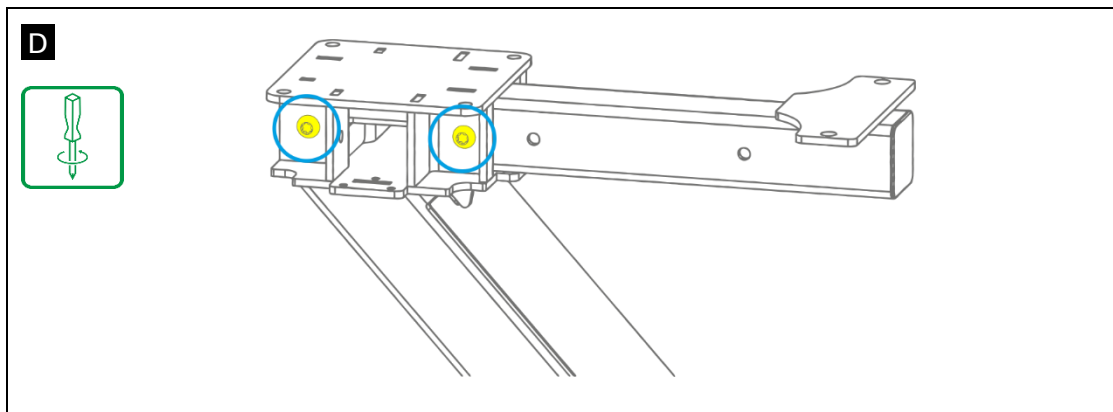
(B) Secure the Base beam by two screws M6x12 (TX30) with a spring lock washers. Fasten the screws only half way.



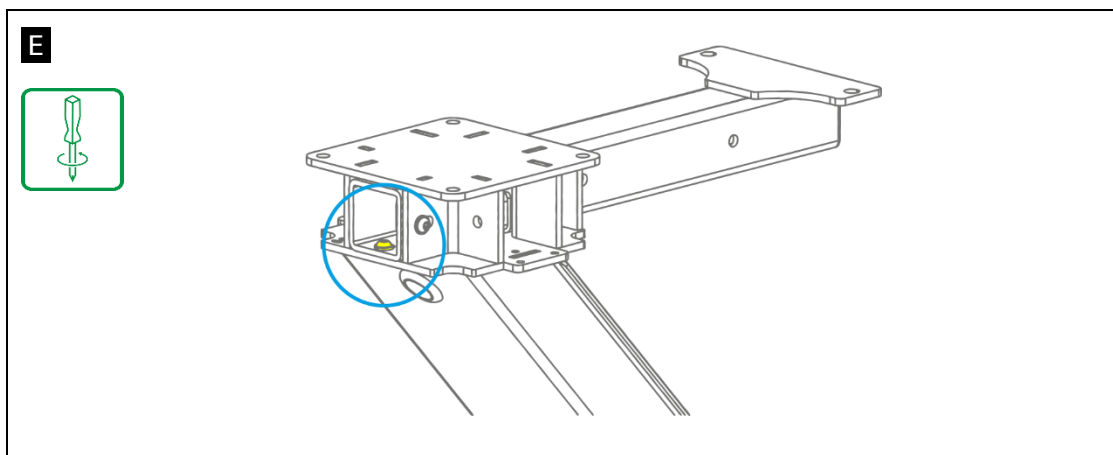
(C) Secure the front part of the Base beam by the screw M6x12 (TX30) and washer M6. Fasten the screw only half way.



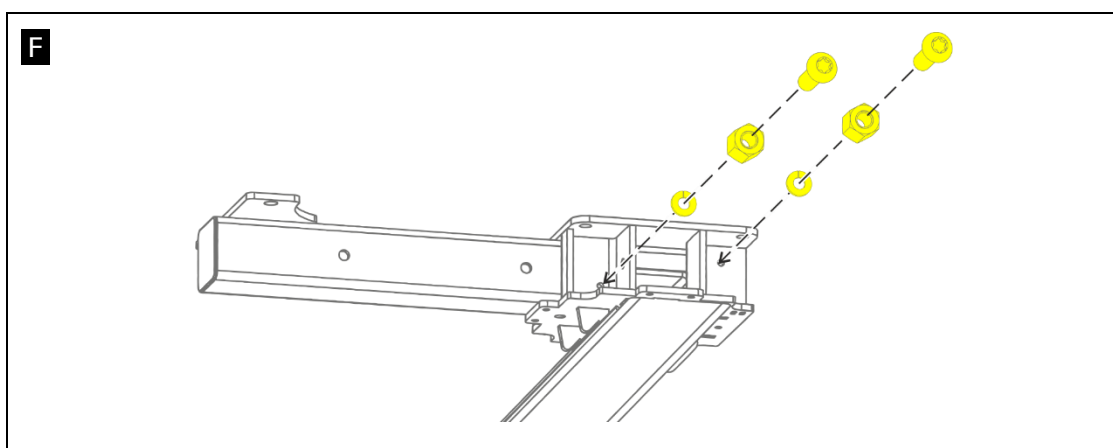
(D) Fasten two screws M6x12 (TX30) the whole way.



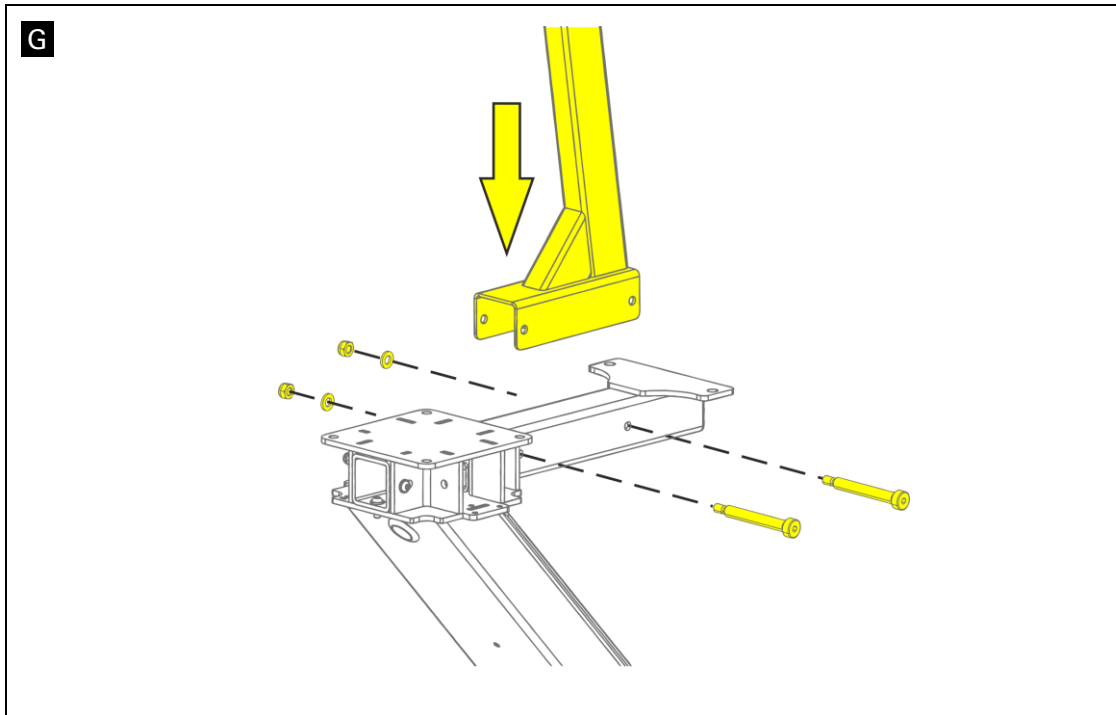
(E) Fasten the screw M6x12 (TX30) the whole way.



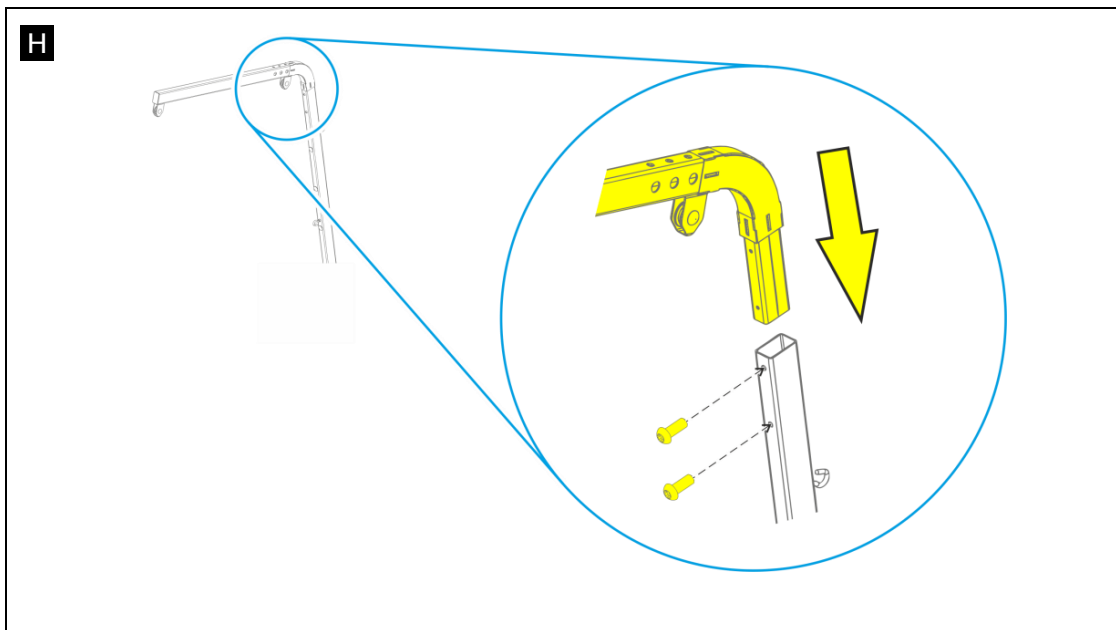
(F) Secure the Base beam by two thrust screws M6x20 (TX30) with nut M6 and washer. After fastening the screws completely, tighten also the contra nuts M6 (Spanner 10 mm).



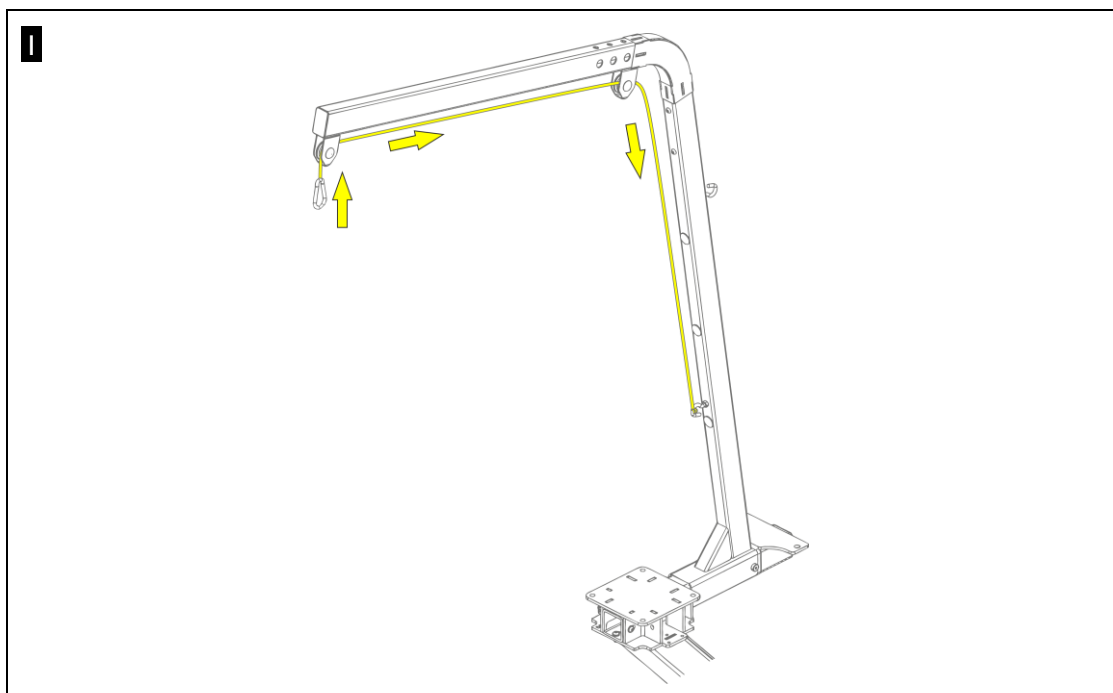
(G) Place the Lower beam of the SIT on the Base beam and secure it with two bolts M6x5, washers and nuts M6.



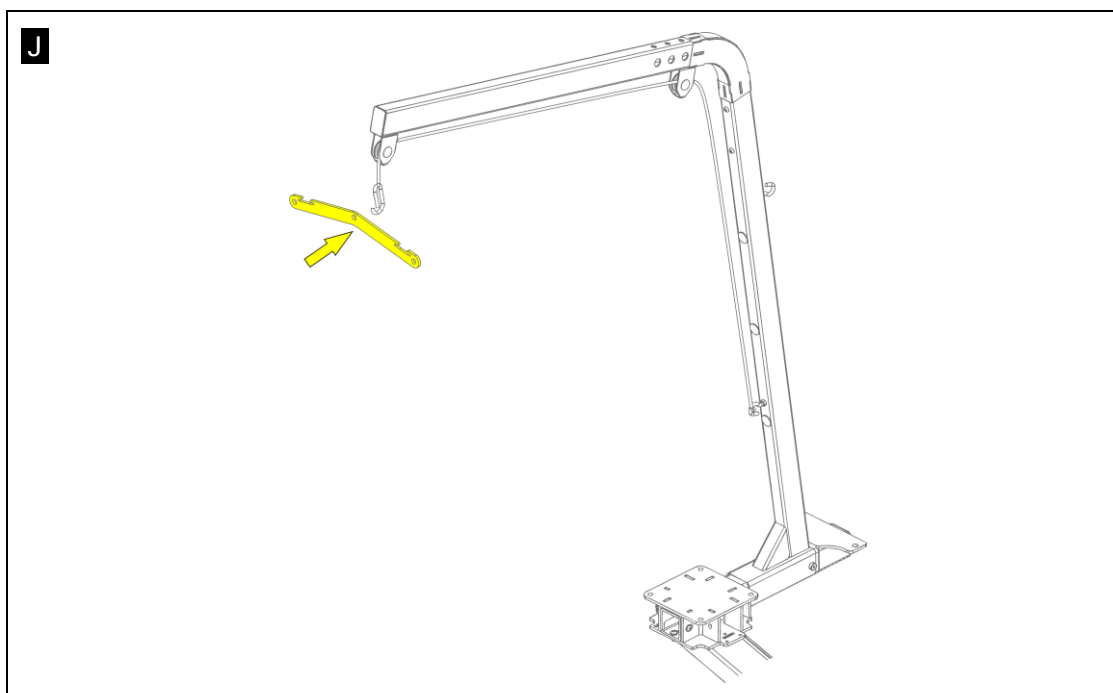
(H) Mount the Upper beam on the Middle beam of the SIT and secure it by two screws M6x16 (TX30).



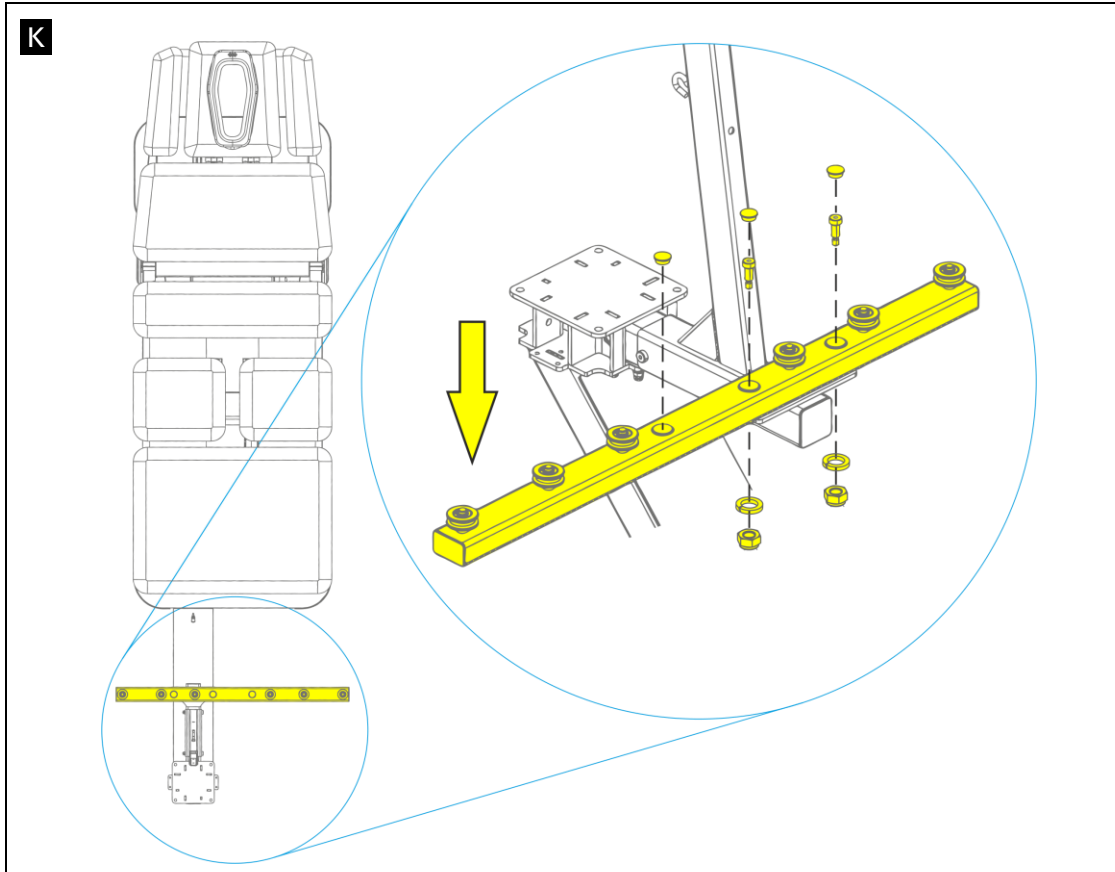
(I) Insert the string with carabiner and fix it to the SIT.



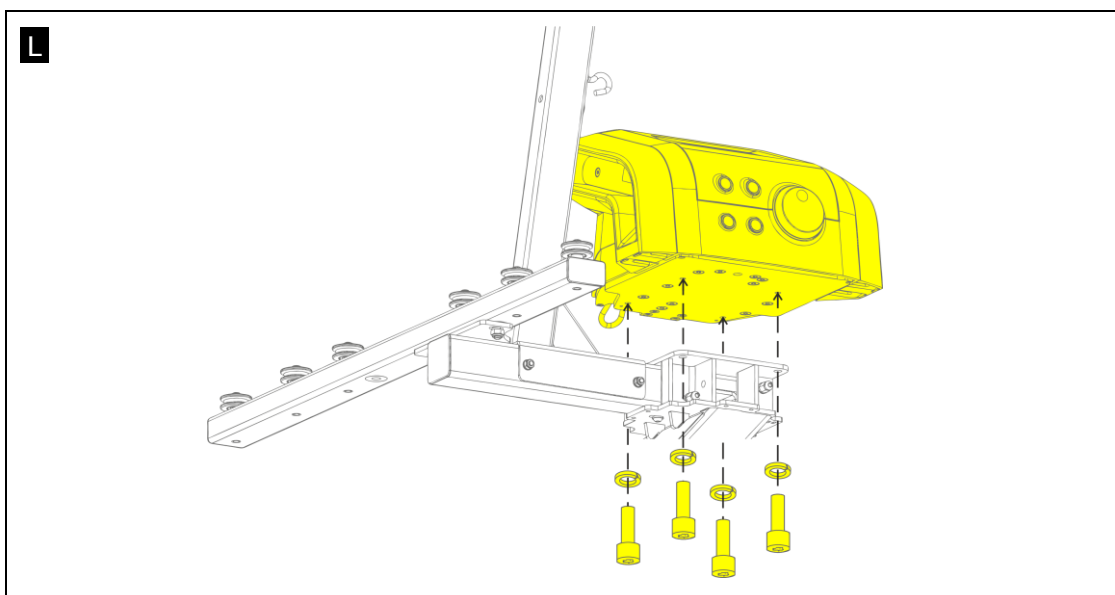
(J) Insert the Spreader bar into the carabiner.



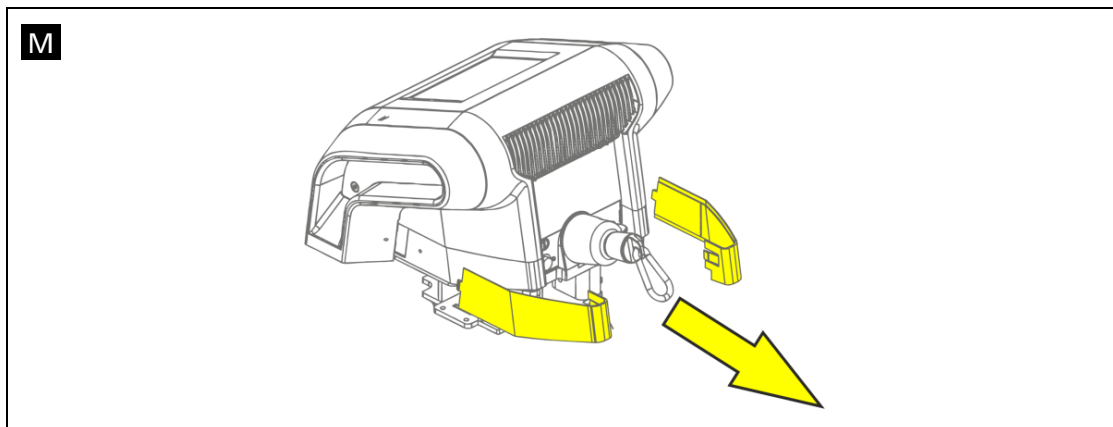
(K) Mount the Transverse beam on the Base beam using two bolts M8x20 (HX5), washers and lock nuts M8 (Spanner 13 mm). After the bolts are secured, cover the three bolt openings in the Transverse beam by the plastic caps.



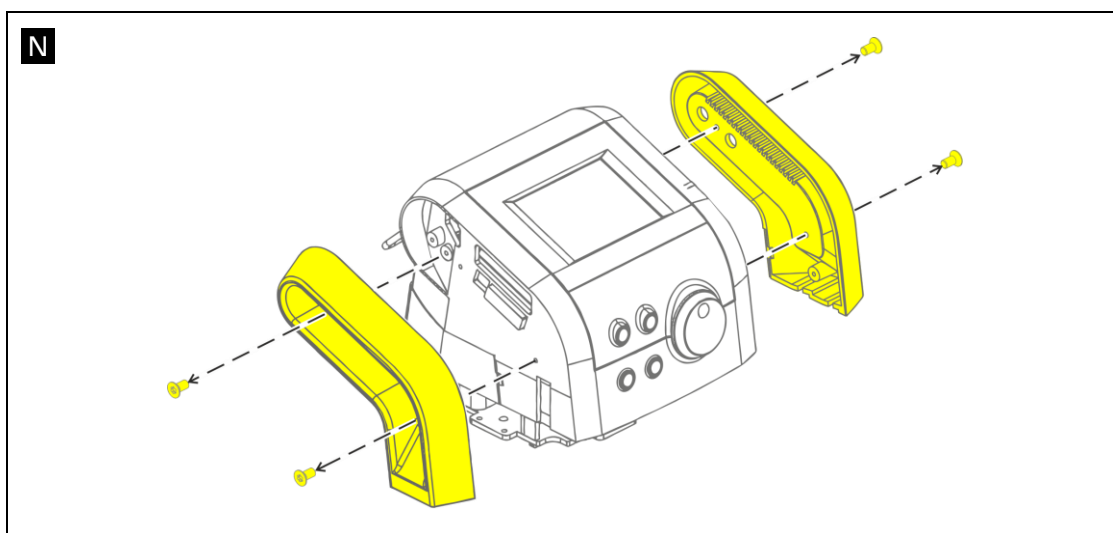
(L) Mount the Unit to the head of the Console. Use screws M8x20 (HX6) and washers, which are part of the Unit accessory.



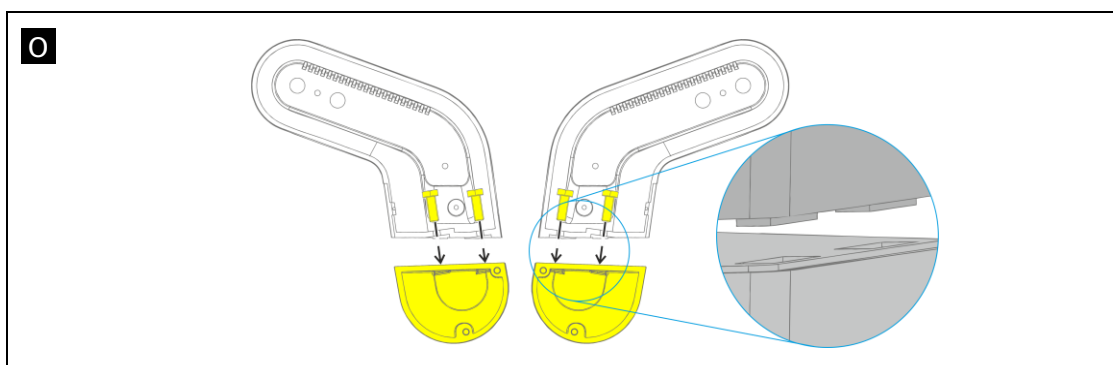
(M) Remove the Cover strips.



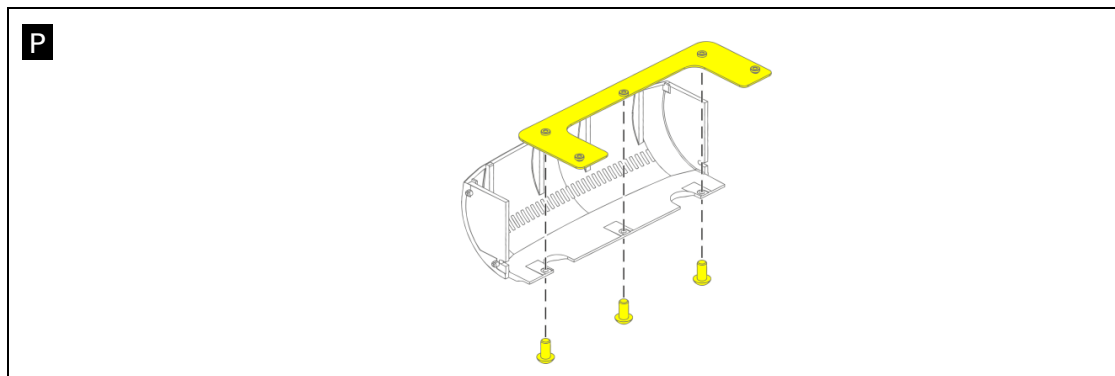
(N) Unscrew four screws M5x10 (TX25) and remove the Handles of the Unit.



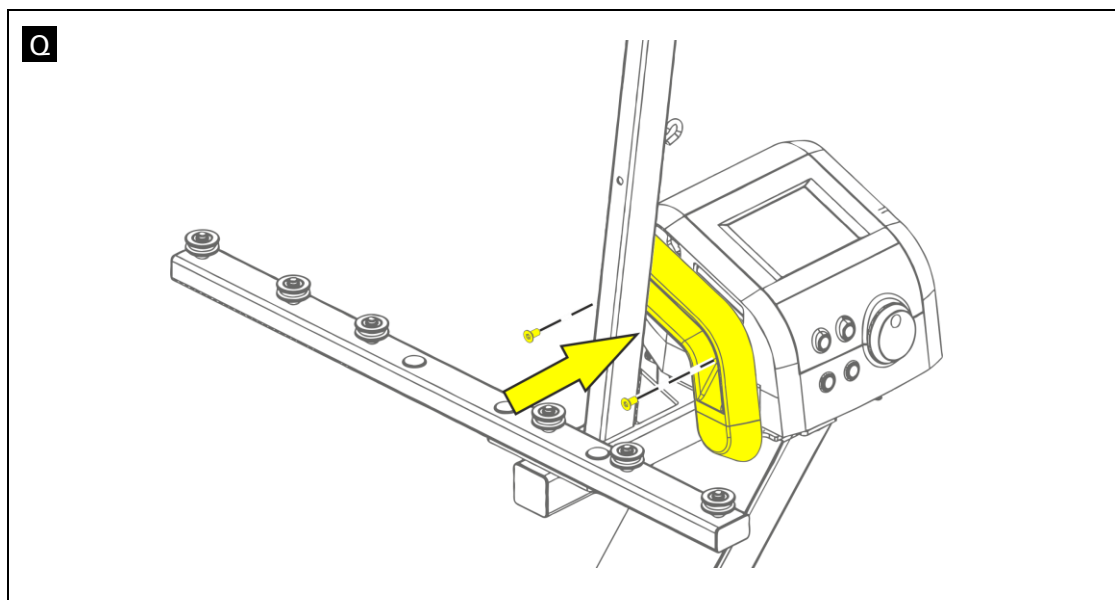
(O) Connect the Handles with their extensions. Using four screws M6x16 (Spanner 10 mm).



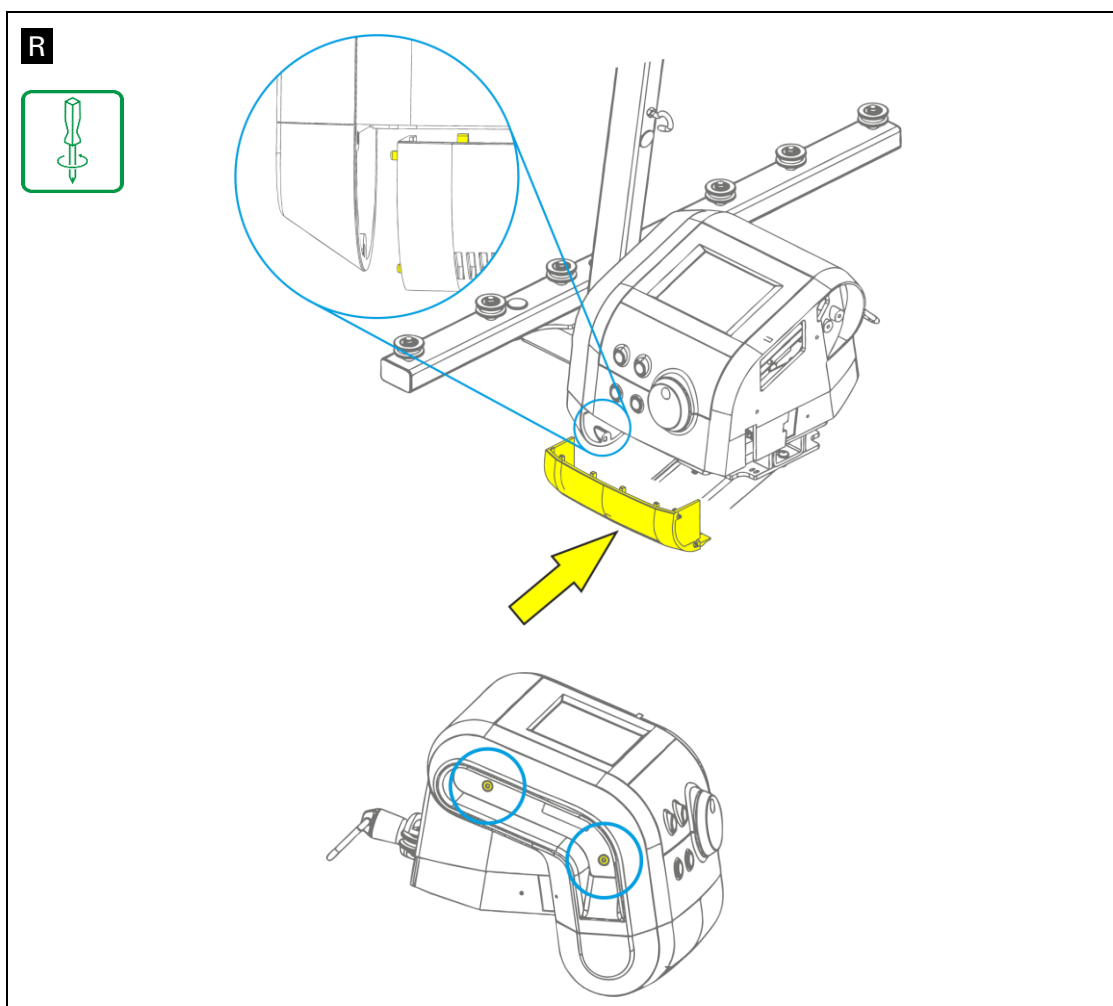
(P) Assemble the Front cover using three screws M4x8 (TX20).



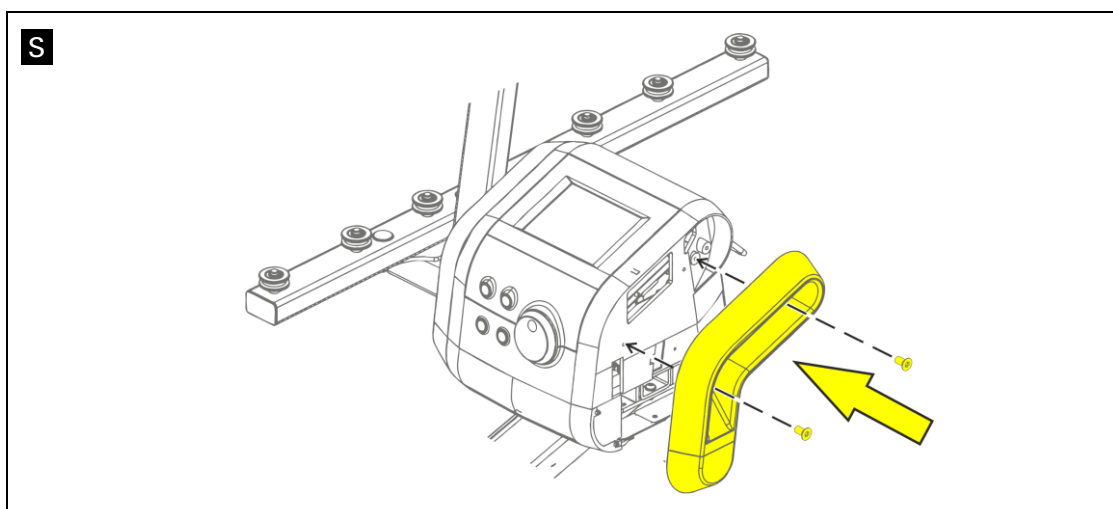
(Q) Mount the left Handle to the Unit. Fasten two screws M5x10 (TX25) only half way.



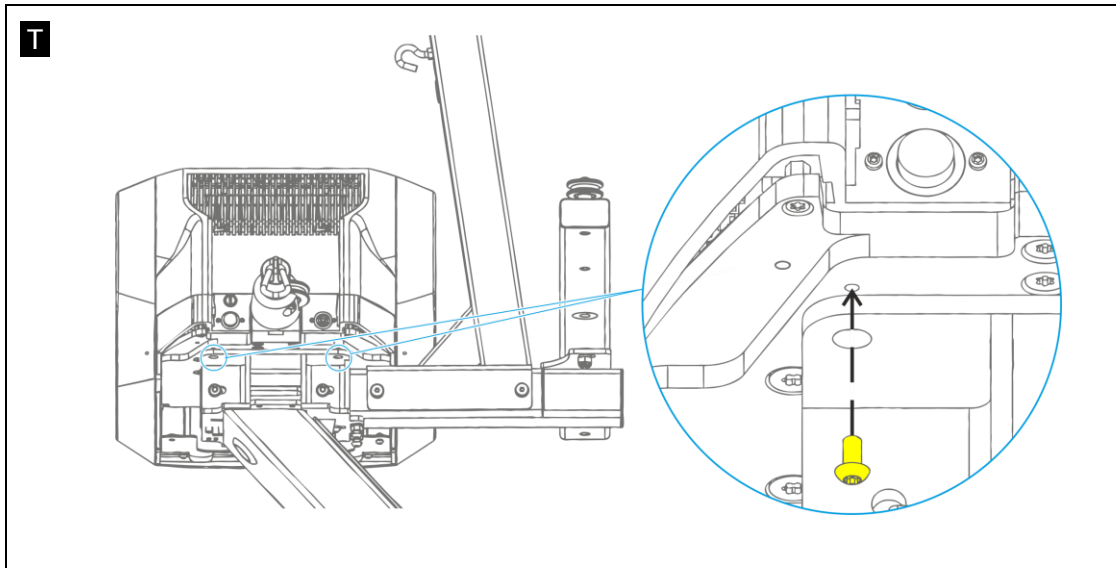
(R) Fit the Front cover in the Handle insertion. Hold the Front cover and fasten two screws M5x10 (TX25) in the Handle the whole way.



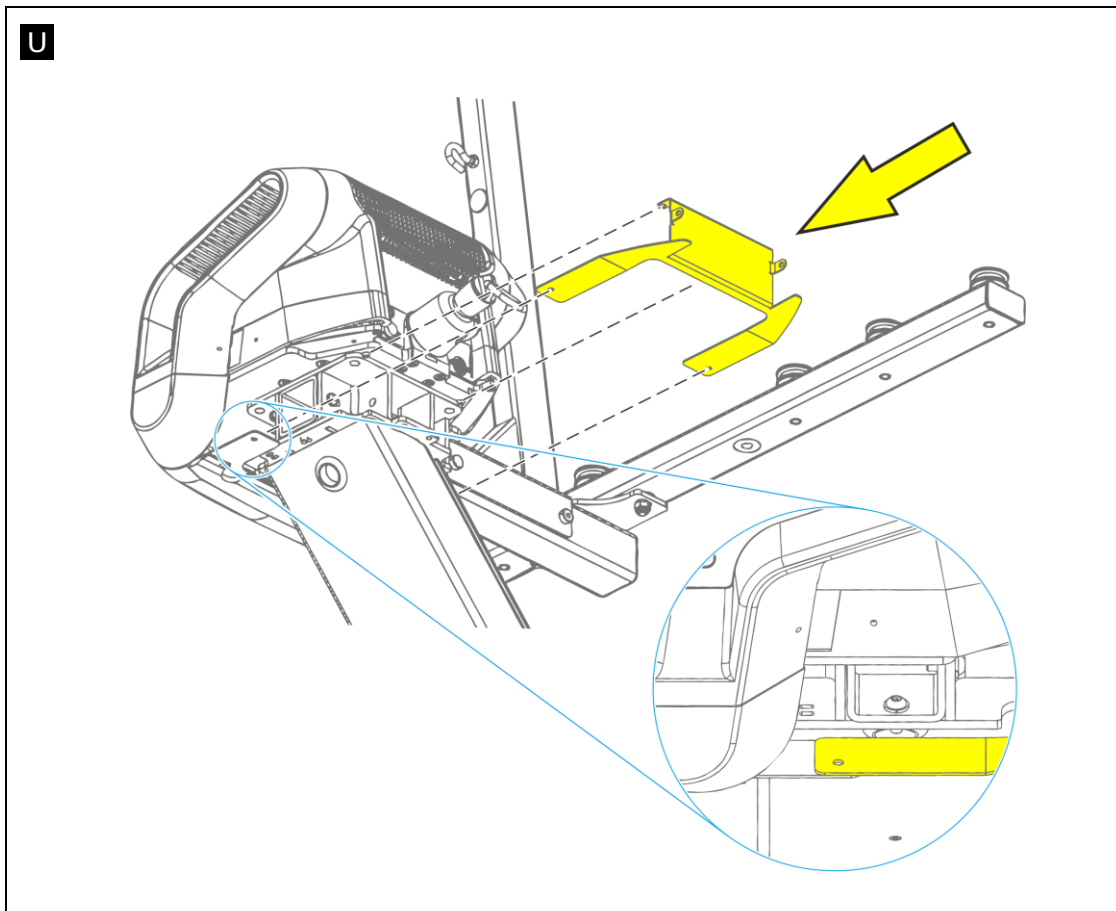
(S) Secure the second Handle using two screws M5x10 (TX25).



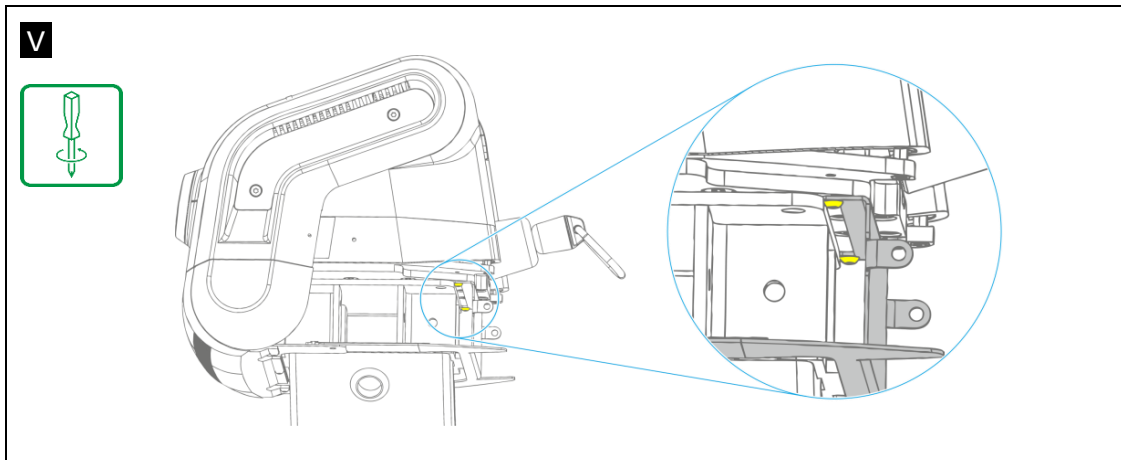
(T) Mount two screws M4x6 (TX 20) from the bottom of the rear side of the Unit. Fasten them only half way.



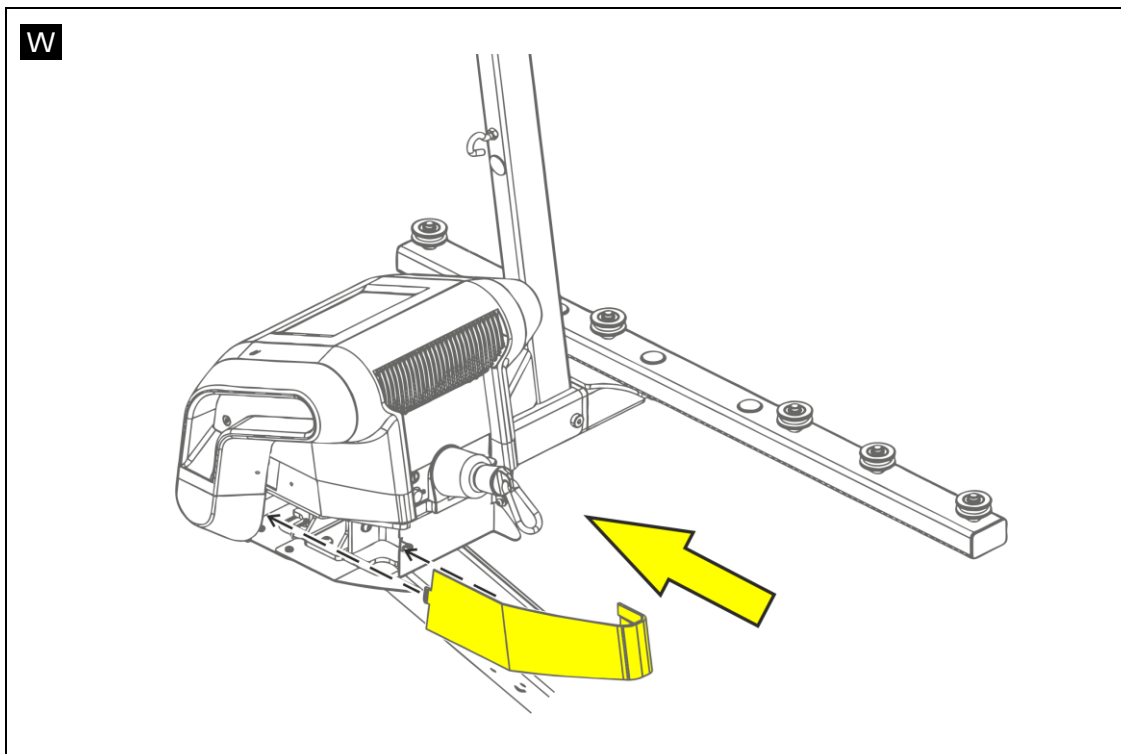
(U) Insert the Back cover so it rests on top of the Front cover.



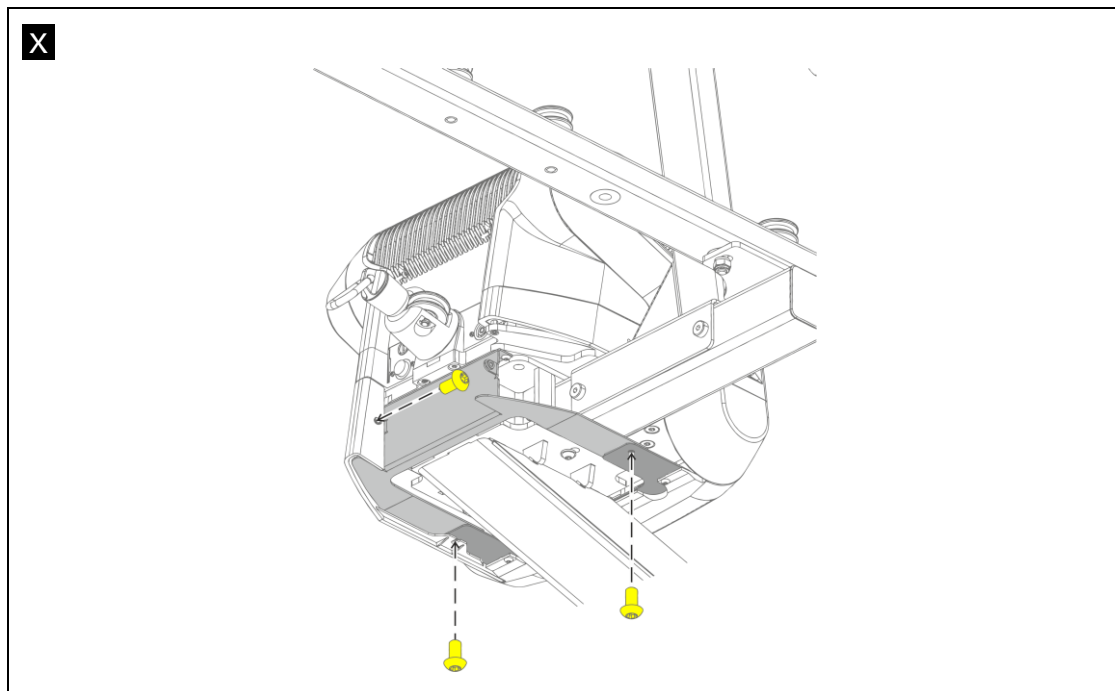
(V) Fasten two screws M4x6 (long TX 20) the whole way.



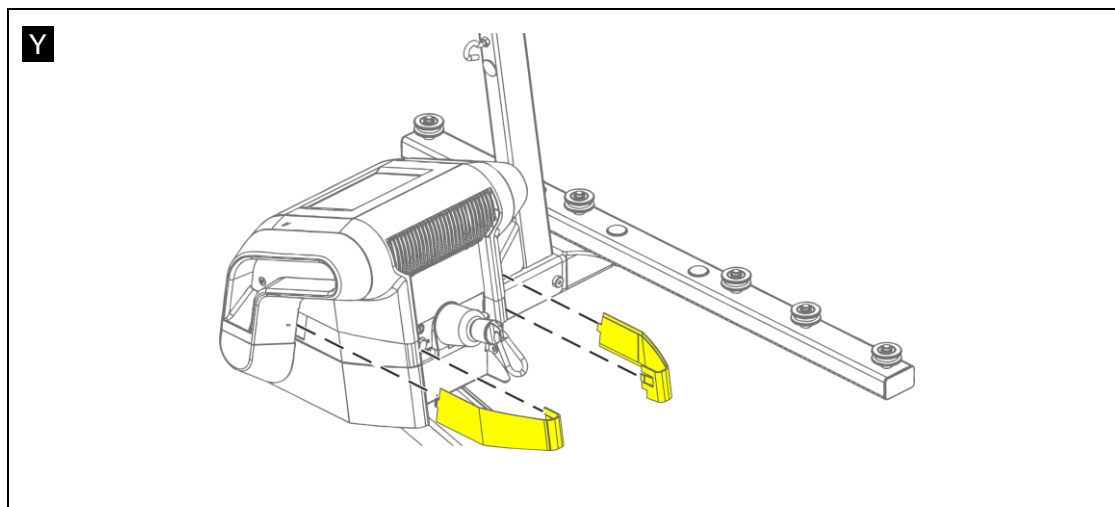
(W) Slide one Profile into the designated slit.



(X) Secure the Profile and Bottom cover by three screws M4x8 (TX20).

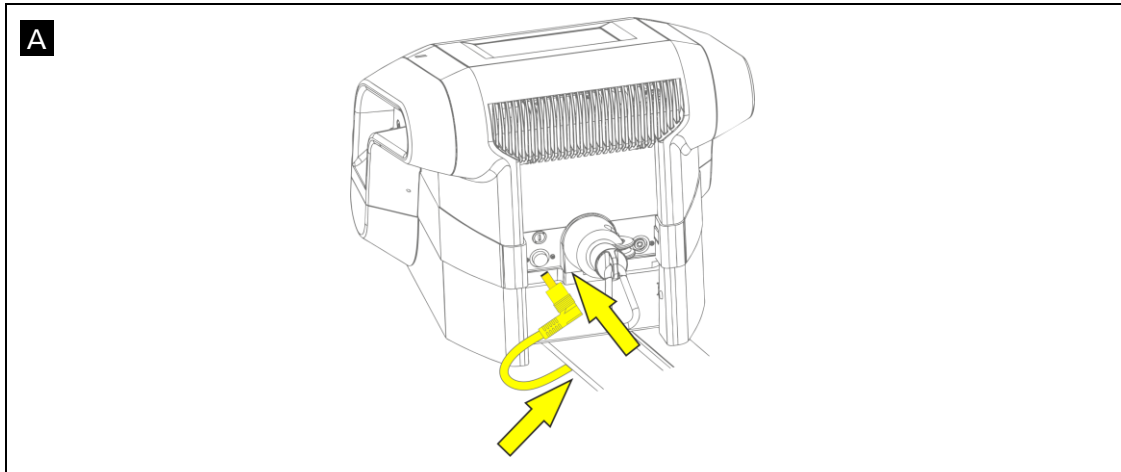


(Y) Slide the Cover strips into the designated slits.

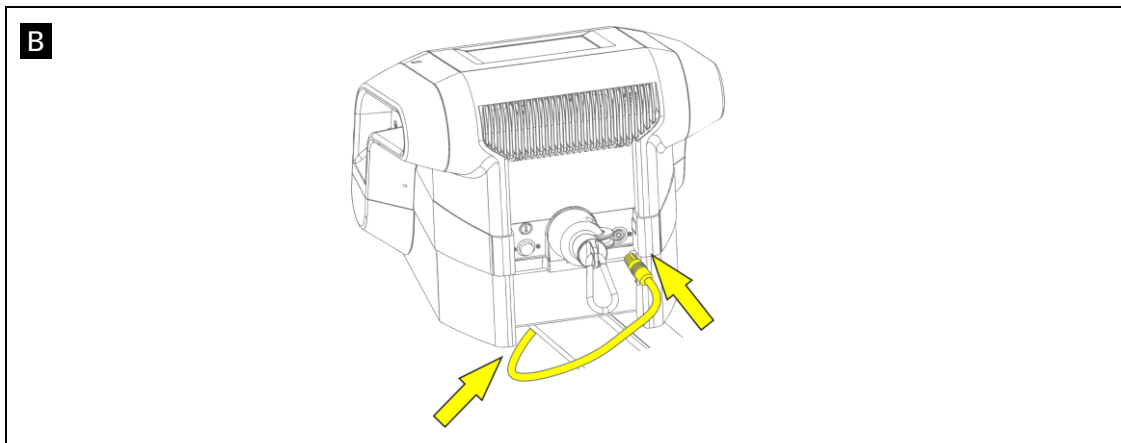


5 ELECTRICAL INTERCONNECTION

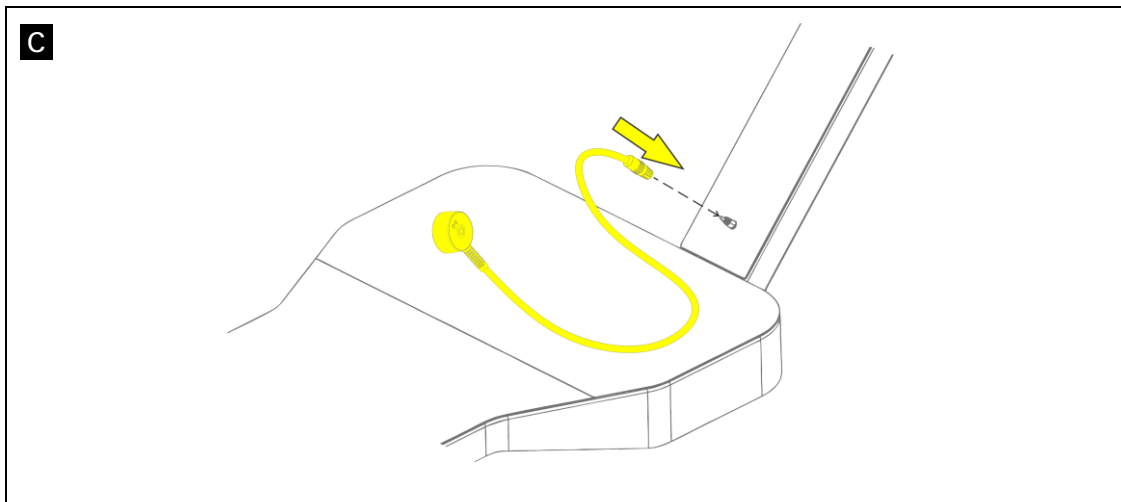
(A) Connect the Power adaptor cable to the Unit and push the excessive cable into the Console.



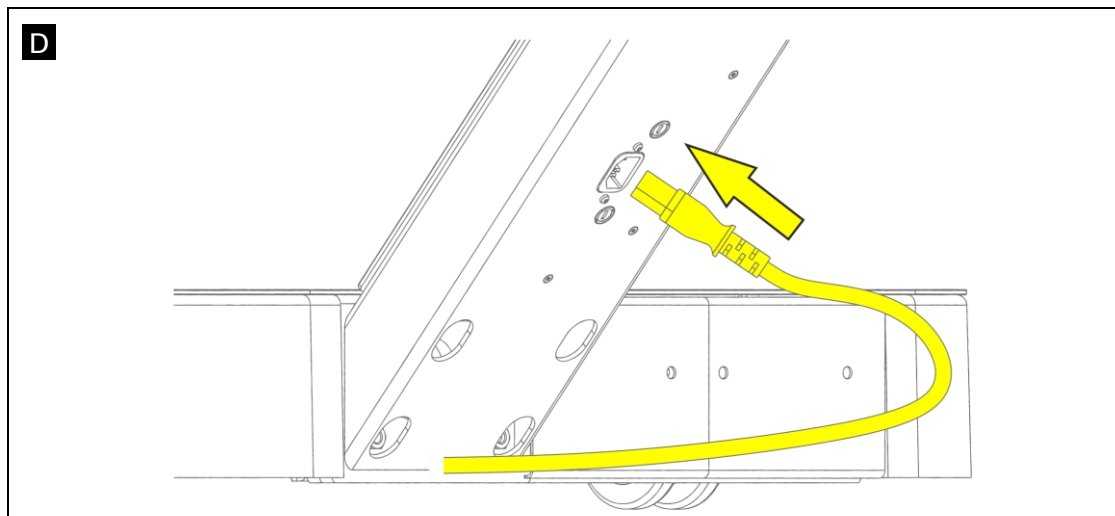
(B) Connect the Patient off switch cable to the Unit and push the excessive cable into the Console.



(C) Connect the Patient off switch to the connector in the Console.



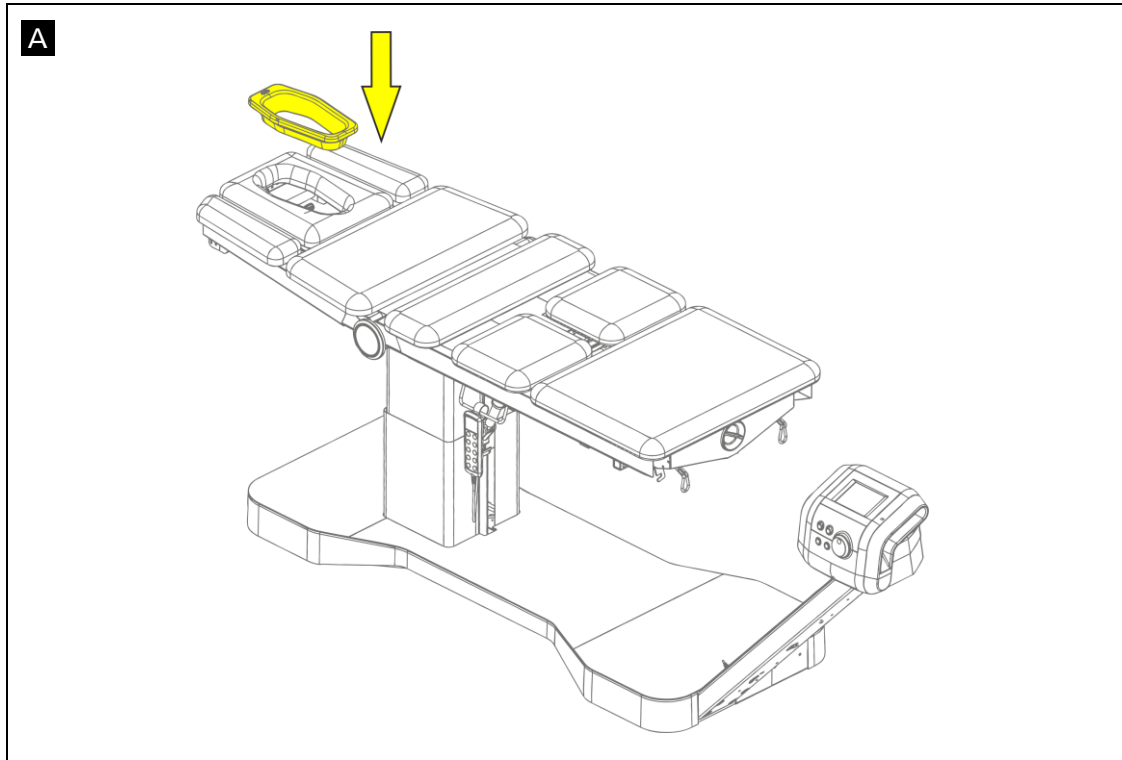
(D) Connect the Power cord to the mains socket at the bottom of the Console.



6 ACCESSORIES ASSEMBLY

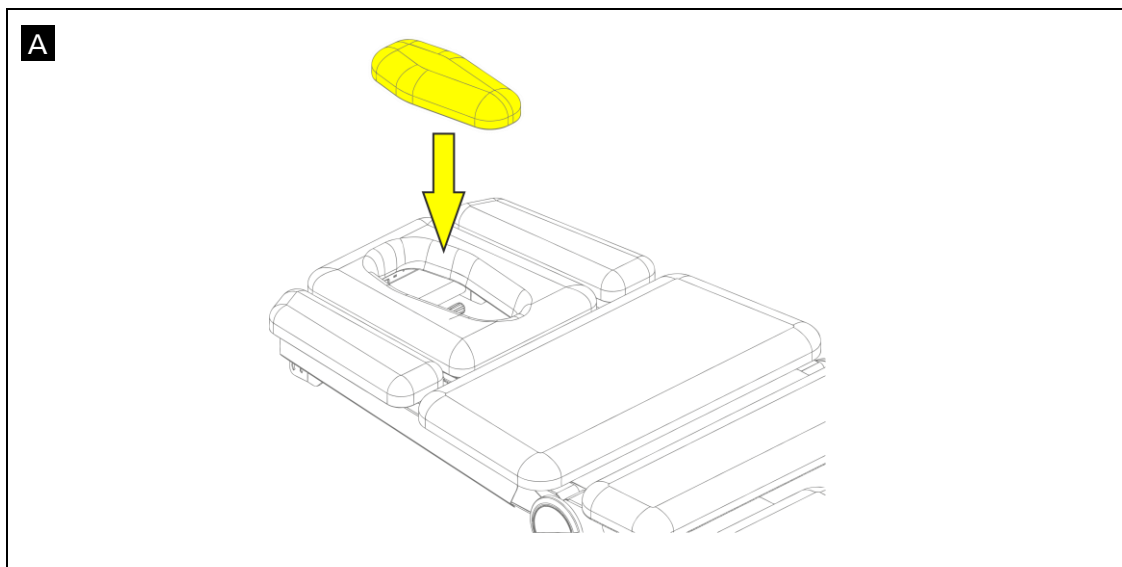
6.1 Face Pad

(A) Place the Face pad into the head section of the Couch.



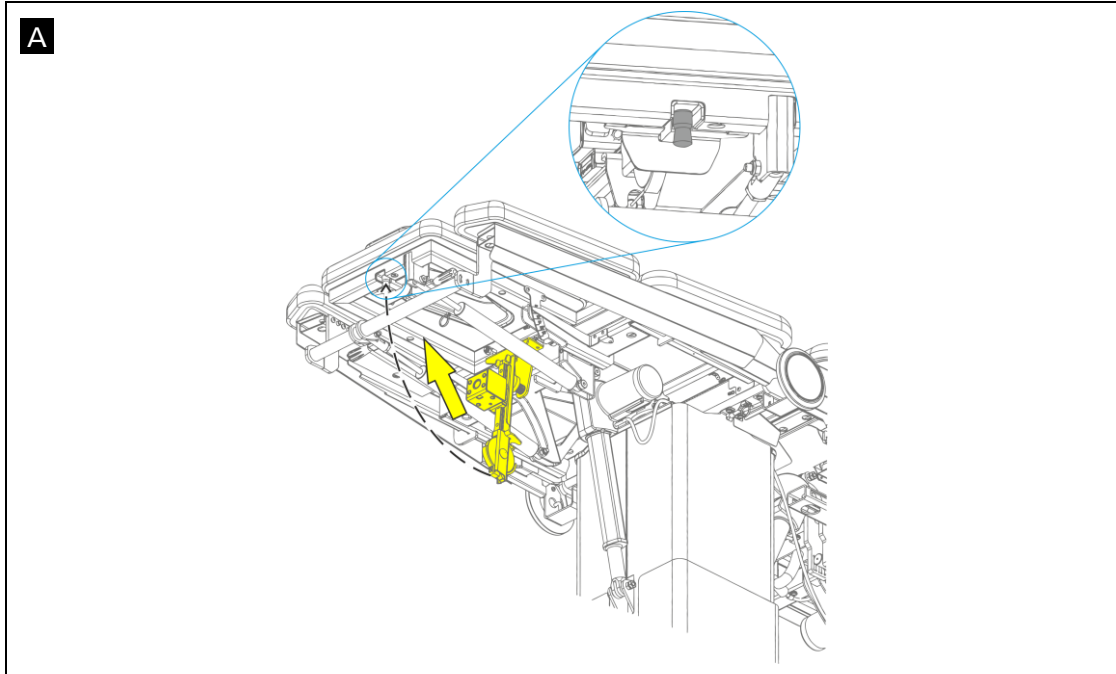
6.2 Upholstery Insert

(A) Place the Upholstery Insert into the Head rest.

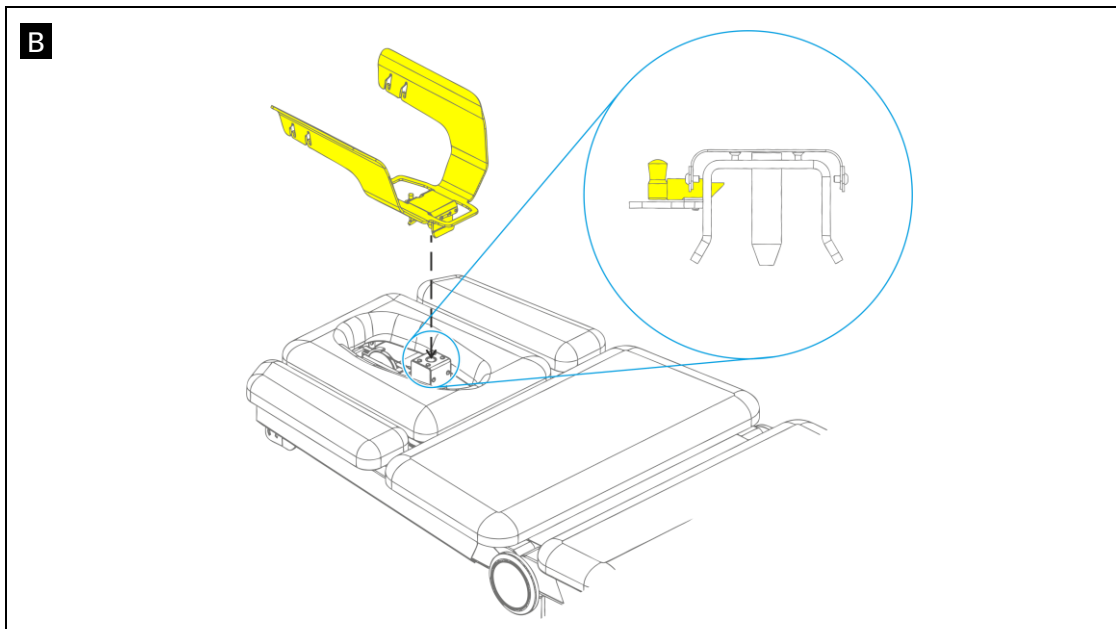


6.3 Cervical Adaptor Assembly

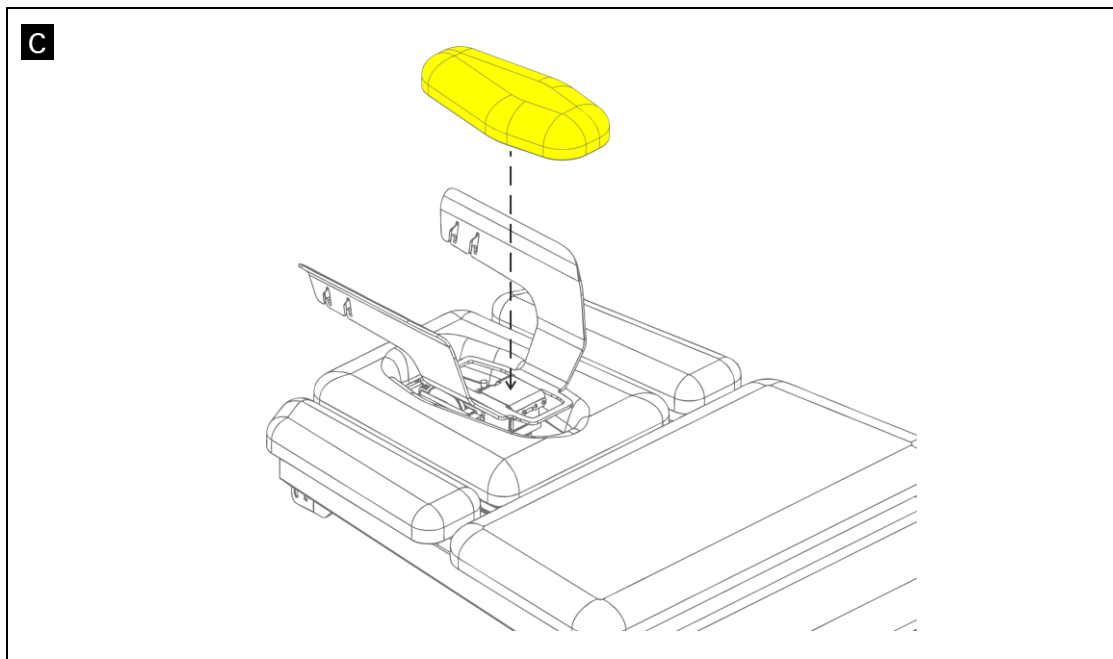
(A) Set the Swing arm of the Cervical adaptor into the horizontal position and secure it by the locking mechanism.



(B) Insert the Helmet into the Carriage and secure it by the locking mechanism.

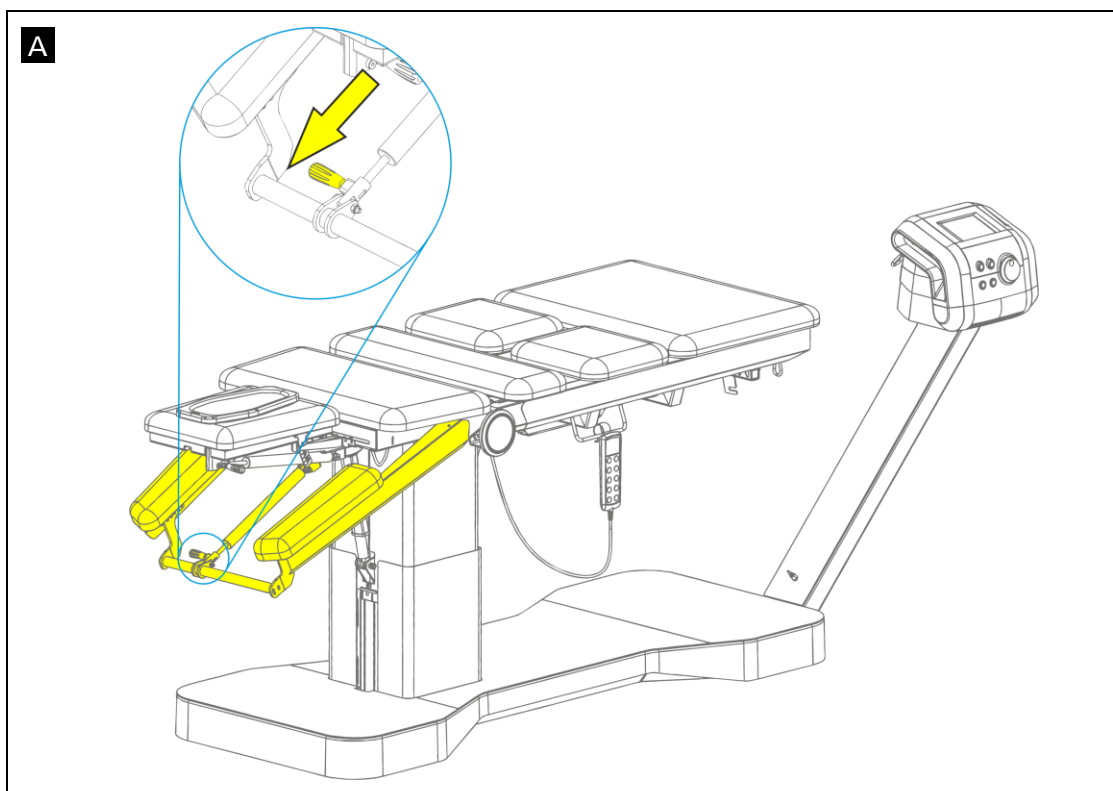


(C) Place the Upholstery insert onto the Helmet.

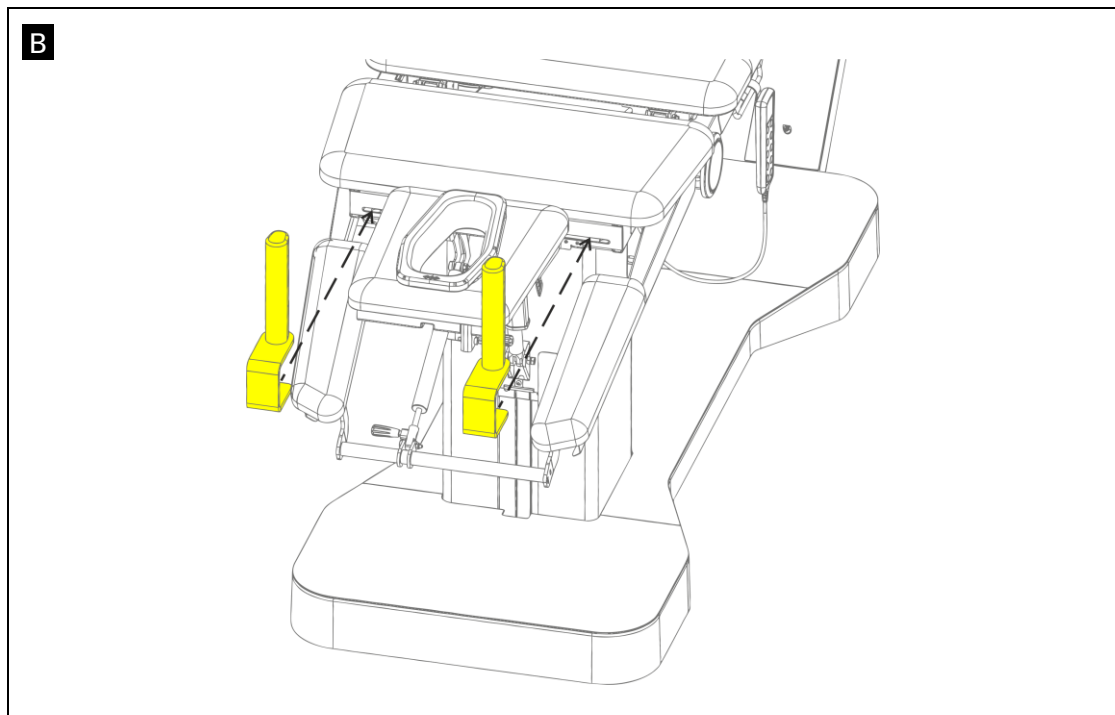


6.4 Axilla Posts

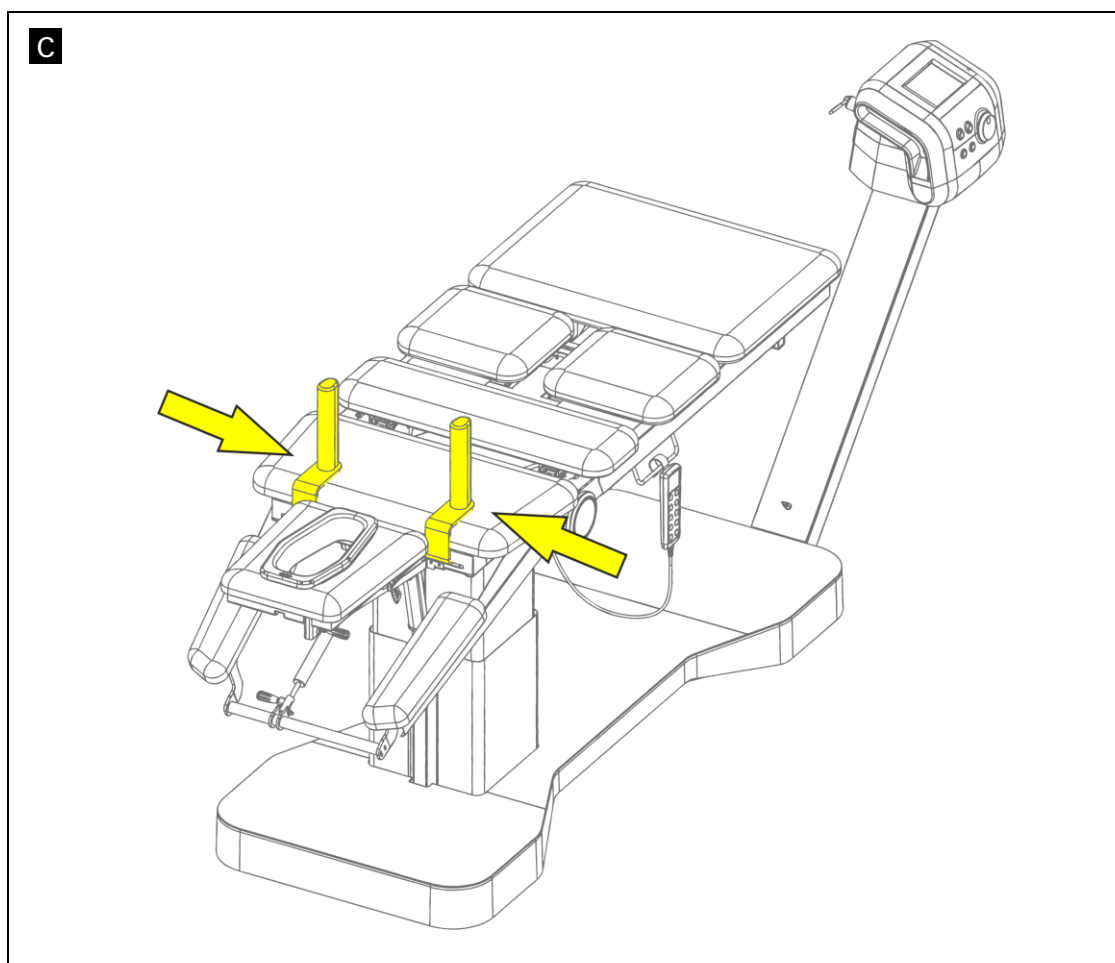
(A) Press the Gas spring lever and move the Hand rest section all the way down.



(B) Insert the Axilla posts into the designated slots in the Couch.



(C) Adjust the position of the Axilla posts.



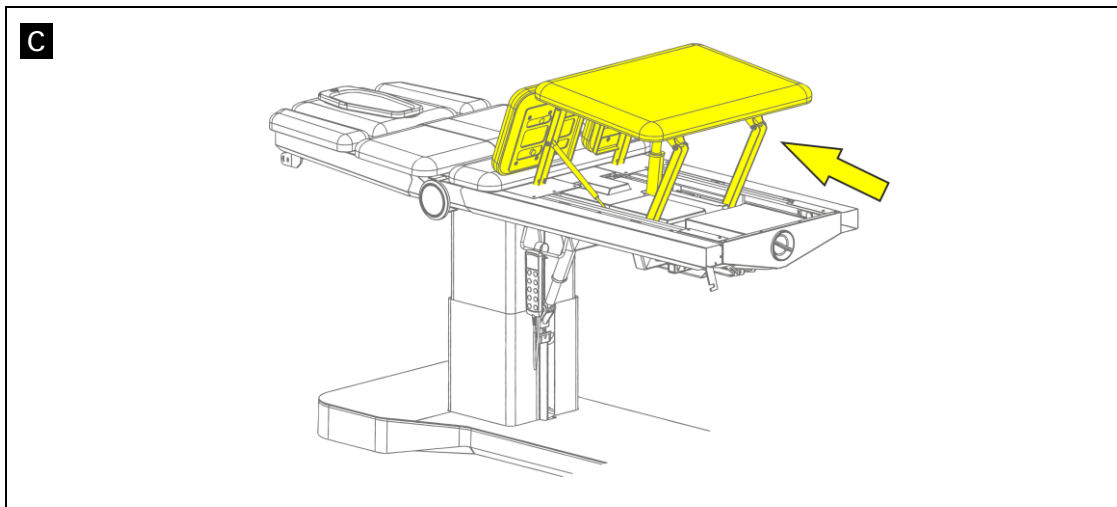
6.5 Inversion Therapy Set

(A) Turn the Unit ON by the on/off button.

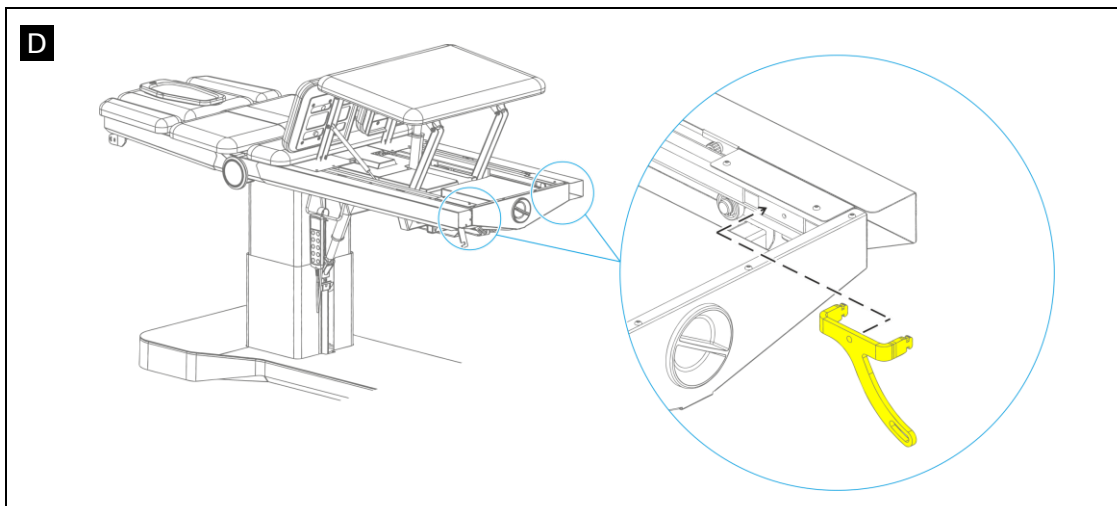
(B) Turn the Couch ON by long press (about 5 seconds) of the Power button on the Hand controller.



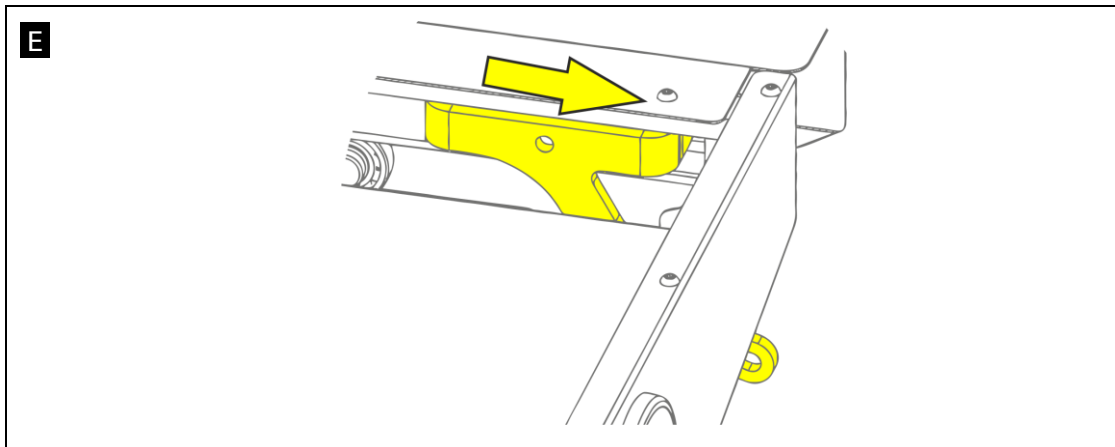
(C) Press the button  to select the Calf section, then press and hold the button  until the movement of the actuator stops.



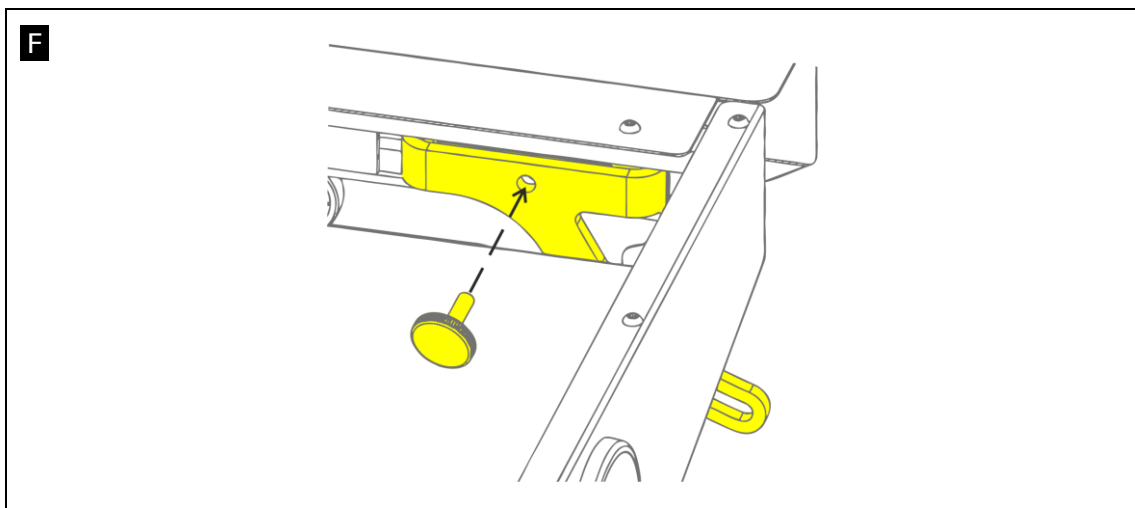
(D) Insert the Inversion therapy handles into the Frame.



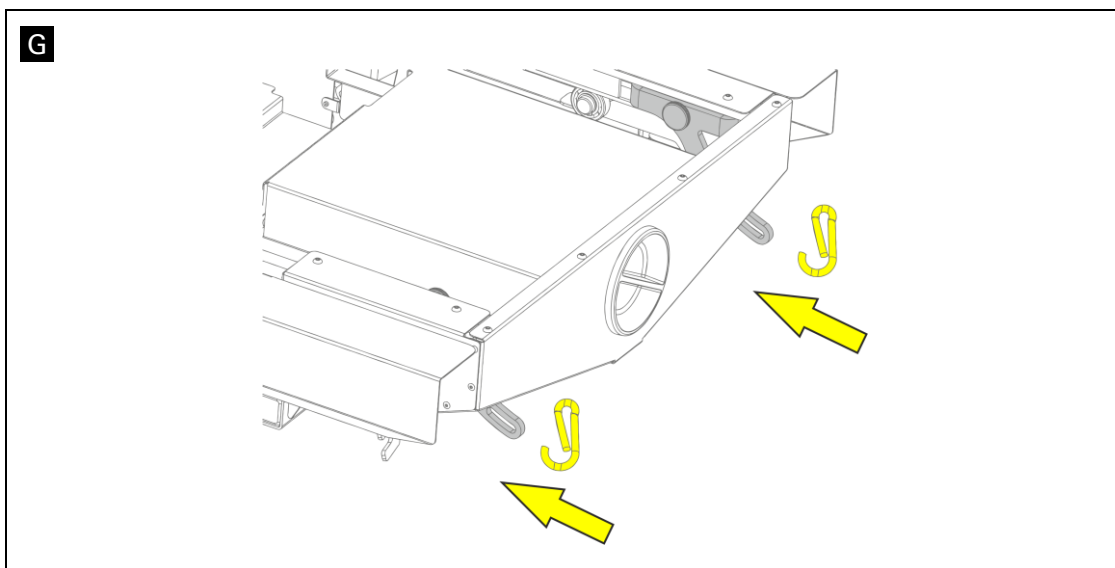
(E) Slide the Inversion therapy handles towards the Console to lock it in the Frame.



(F) Secure the position of the Inversion therapy handles by the hand screws M6x20.



(G) Attach carabiners to both Inversion therapy handles.



7 FUNCTIONALITY CHECK

The Couch is fully functional if all the steps described below can be performed successfully and no error message appears on the Hand controller screen. Error messages appear in the upper section of the Hand controller screen as "E 0x", where "x" stands for a number of an error message.

(A) Turn the Unit ON by the on/off button.

(B) Turn the Couch ON by long press (about 5 seconds) of the Power button on the Hand controller.



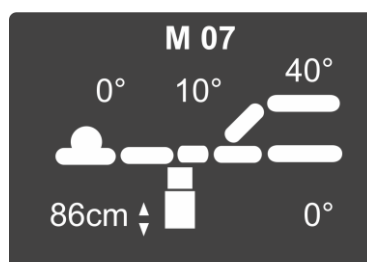
(C) Initiate the Thoracic section heating check. Press the button . By pressing of the button  select the option "H2" in the upper section of the Hand controller screen. Three white wavy lines will appear on the screen over the Couch. Hold the button  until the symbol of three wavy lines turns blue . It takes about 10 minutes to reach the set temperature. In the meantime, continue with the steps below.

NOTE: Cushion heating is not available for the ESSENTIAL variant of the Couch.
For more details about the Couch versions, refer to the User manual.

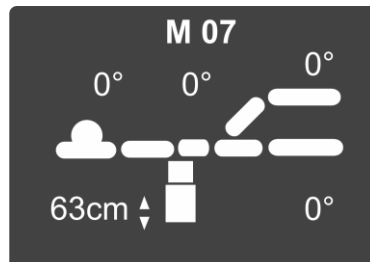
(D) Press and hold the buttons  and  simultaneously. After about 10 seconds, calibration of the actuators is initiated. Keep holding both buttons until the movement of the actuators stops and the Hand controller beeps 3 times.

(E) Press the button  and by pressing the button  select the memory position "M 07" displayed in the upper section of the Hand controller screen.

(F) Press and hold the button  until the movement of all actuators stops and the pictogram of the Couch on the Hand controller screen changes color from blue to white. Check that the height of the Telescopic column is "86 cm", the angle of the Pelvic section is "10°", the angle of the Thigh section is "40°" and the angle of the Upper and Lower actuators are "0°".



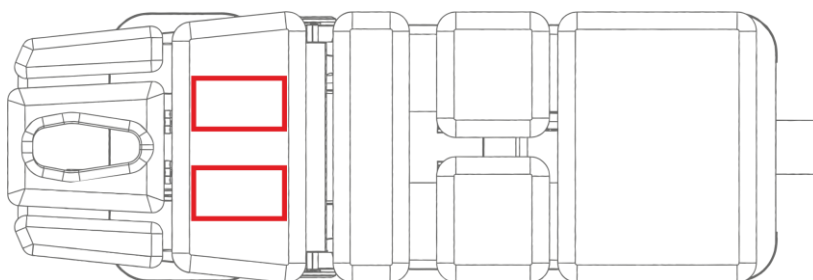
(G) Press and hold button . Actuators will start moving into the parking position. Hold the button until all movements stop and the pictogram of the Couch on the Hand controller screen will change color from blue to white. Check if the displayed height of the Telescopic column is “63 cm” and all displayed angles are “0°”.



(H) Press the button . By pressing the button  select the option “L” in the upper section of the Hand controller screen. Symbol of a white light bulb  will appear. Hold the button  until the light bulb symbol turns blue . Check if the LED backlight is active on both sides of the Couch. Hold the button  until the light bulb turns white  and the LED backlight will turn OFF.

NOTE: LED backlight is not available for the ESSENTIAL variant of the Couch.
For more details about the Couch versions, refer to the User manual.

(I) Verify the functionality of the Thoracic section heating. Compare the temperature of the heated areas of the Thoracic section and the temperature of the Pelvic section by hand (heated areas of the Thoracic section are highlighted on the picture below). In case the Thoracic section is not warmer compared to the Pelvic section, check that the heating has been activated according to the step “(C)” and after five minutes compare the temperature of the two sections again.



(J) Turn "OFF" the heating. Press the button  and by pressing of the button  select the option "H2" in the upper section of the Hand controller screen. Hold the button  until the symbol of three wavy lines turns white.

(K) Turn the Couch OFF by long press (about 5 seconds) of the Power button  on the Hand controller.

(L) Turn the Unit OFF by the on/off button.

8 TECHNICAL SUPPORT CONTACT

Please prepare following information with any service enquiry:

- **Device Model, Type, Serial number, Firmware version:** ("Menu > Unit settings > Unit information" or see the label on the device cover).
- **Applicator Serial Number and Firmware version:** ("Menu > Accessories > Information" - the applicator must be connected to the device).
- **Detailed description of the problem:** Error codes, videos, pictures, undertaken actions and subsequent results.
- **Log files downloaded from the Device:** ("Menu > Unit setting > Service functions > Unit log data export").

BTL International Service Center (BTL ISC)

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