

B3.5

MCC (DRAWABLE) CASSETTE ASSEMBLY

KYT-070
11/2021

 Update Notes

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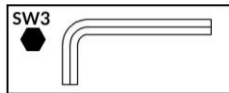
 Tools Symbol Guide



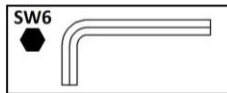
Cross



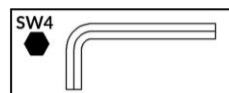
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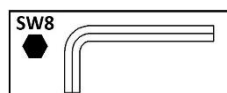
M4 Allen Key



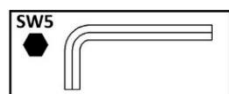
M8 Allen Key



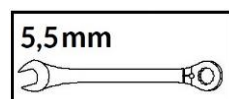
M5 Allen Key



M10 Allen Key



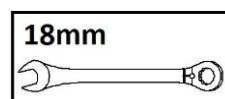
M6 Allen Key



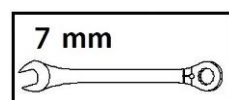
M3 Spanner



M6 Spanner



M12 Spanner



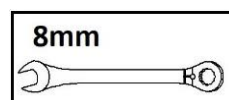
M4 Spanner



M8 Spanner



M18 Spanner



M5 Spanner



M10 Spanner

Caution: For safety precaution ; Protective gloves and equipments must be used while assembly.

As additional tools for assembly;

- Torque wrench features:
 - ✓ Tightening torque : 75 N.m
 - ✓ It has a reduced thickness, can be easily used to access non accessible joints/fishplates and between busbars.
- Torque wrench an accessories:
 - ✓ Wrench shaft - mandatory
 - ✓ Extra-thin pawl adapter - mandatory
 - ✓ Pawl for ordinary sockets
- Extra-thin sockets for pawl + shaft:
 - ✓ 13 mm extra-thin low socket
 - ✓ 13 mm extra-thin high socket
 - ✓ 15 mm extra-thin low socket
 - ✓ 15 mm extra-thin high socket
 - ✓ 18 mm extra-thin low socket
 - ✓ 18 mm extra-thin high socket

■ Torque Table for Screw/Bolt

Recommended tightening torque for mechanical and electrical links 8.8-class screws (with nut + washers)	
Diameter of Screw	Tightening Torque (N.m)
M3	1.5
M4	3.5
M5	7
M6	13
M8	28
M10	50
M12	75

Tightening torque for electrical links on the devices and for their fixing:

Marking varnish:

After tightening each electrical connection to the appropriate torque, apply some varnish:

- ✓ Between the nut and the screw or
- ✓ Between the screw head and the copper bar or
- ✓ Between the device for tightening on a threaded part

Varnish should not block the screw:

- ✓ It allows operator inspection, to verify if the bolts/ nut are tightened or not.
- ✓ It facilitates the identification of any loose nuts during the switchboard's lifetime.

Varnish features:

- ✓ Coloured acrylic varnish, indelible and able to resist a 150° C temperature.
- ✓ PDS recommends a red varnish as a standard to identify the panelbuilder's work.
- ✓ Other colours can be used by the contractor or any operators entitled to work on the switchboard after its commissioning.

■ Screw/Bolt/Special Parts for Assembly

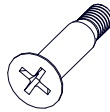
Philips Pan
Head Screw



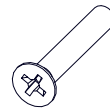
M6x23 Philips Flat
Head Screw (Teos)



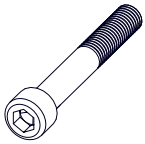
M5x20 Philips Flat
Head Screw (Teos)



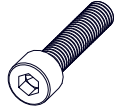
Philips Flat Head
Screw



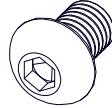
Hexagon Socket Head
Bolt (Half Thread)



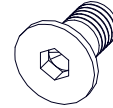
Hexagon Socket
Head Bolt



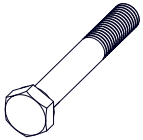
Hexagon Socket
Button Head Bolt



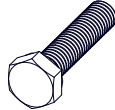
Hexagon Socket
Flat Head Bolt



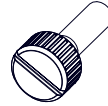
Hexagon Head Bolt
(Half Tread)



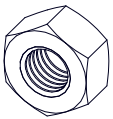
Hexagon Head
Bolt



Internal Door
Knob Bolt



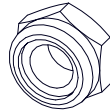
Regular Nut



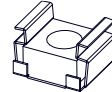
Flange Nut



Previling Torque
Nut



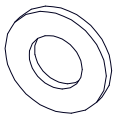
Cage Nut



Plastic Cage
Nut



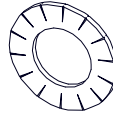
Flat Washer



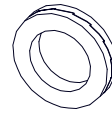
Spring Lock
Washer



Toothed Lock
Washer

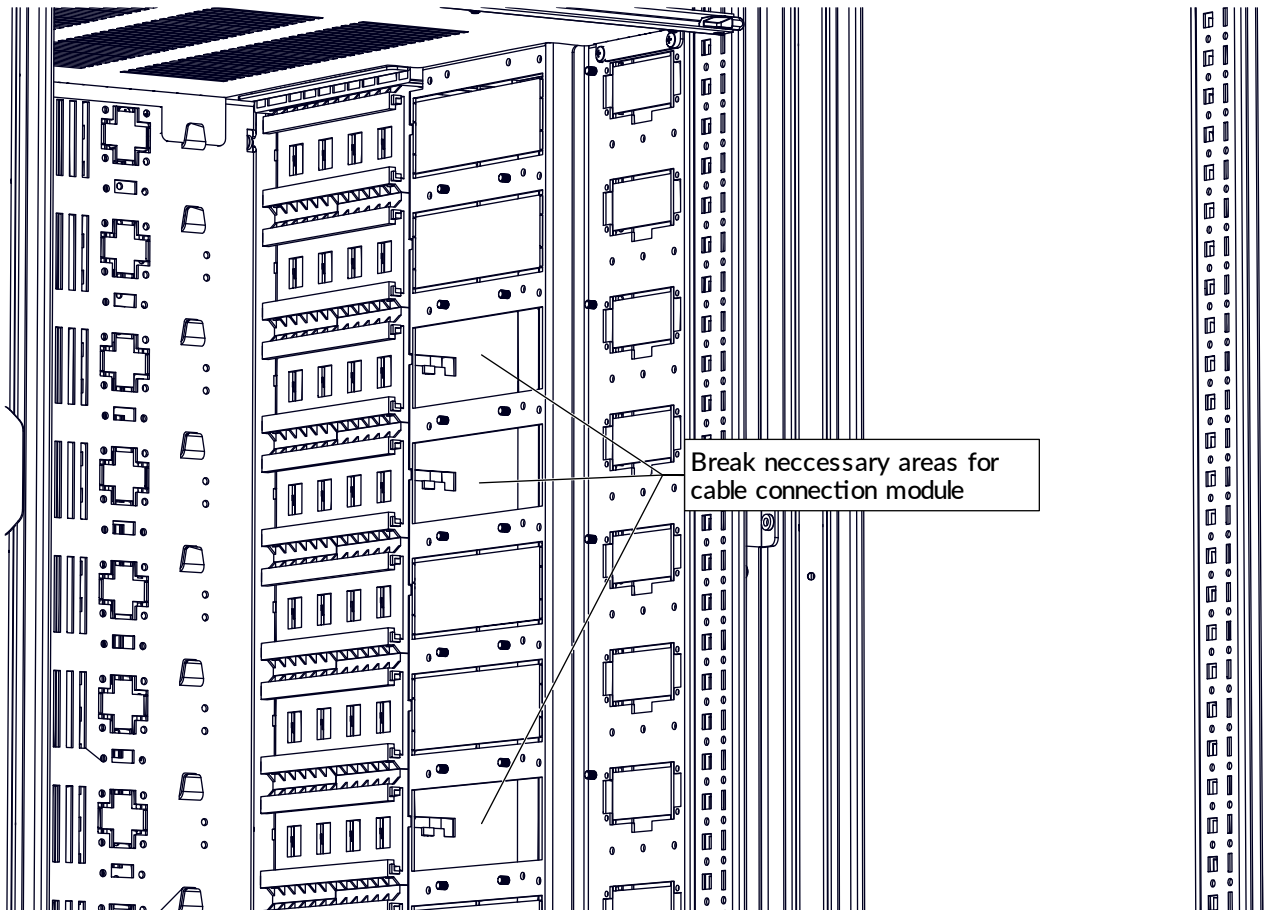
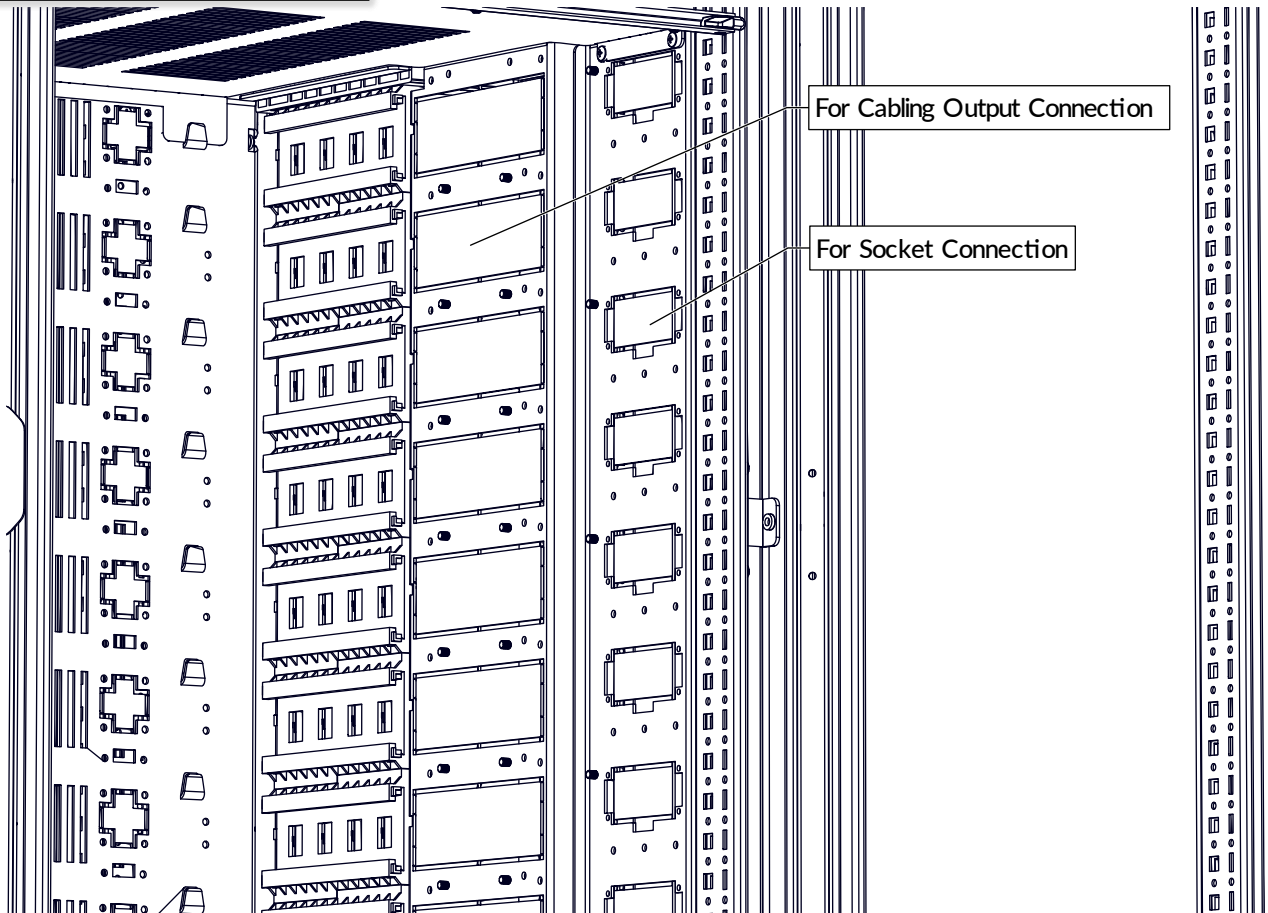


Wedge Lock
Washer



■ 1. CABLE OUTPUT MODULE ASSEMBLY

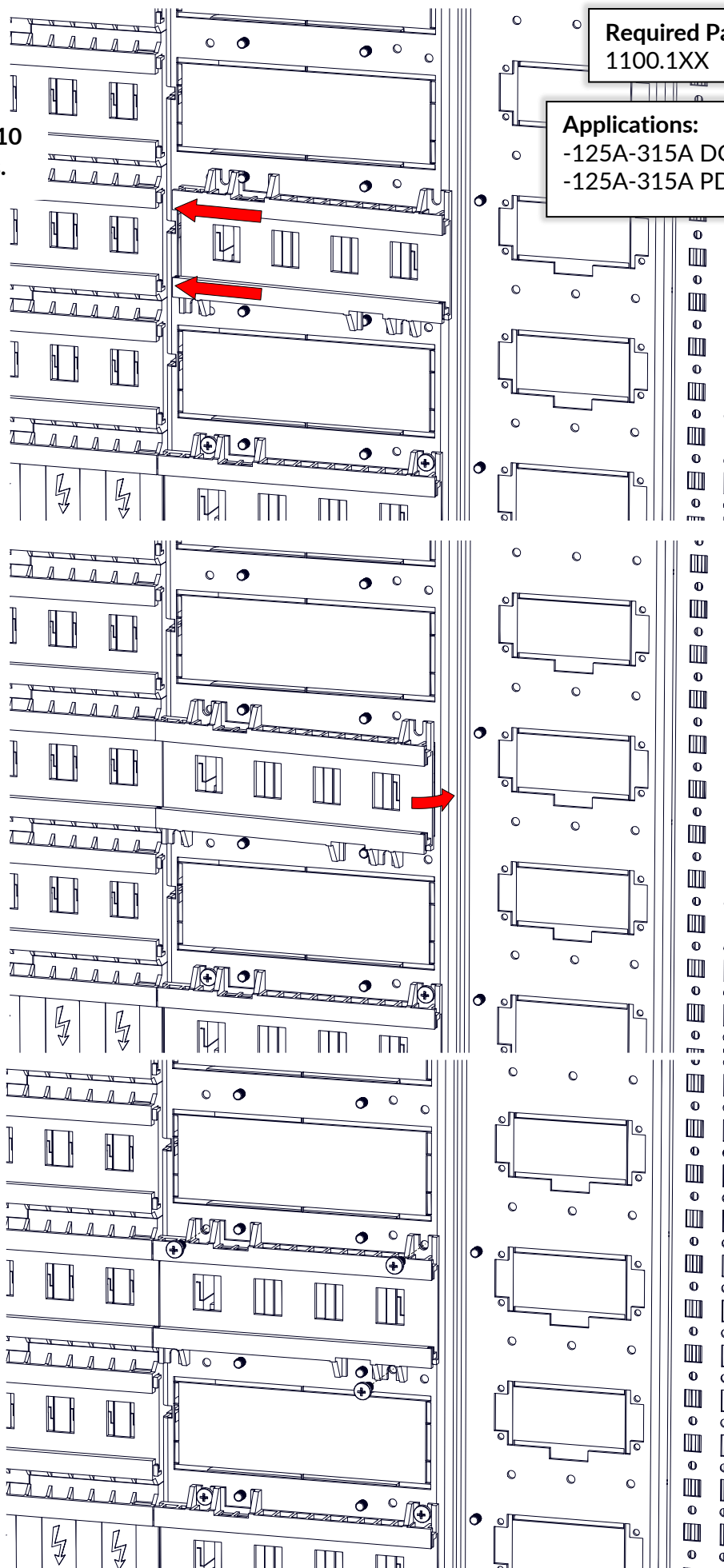
Required Packages:
1100.1XX



1.1 CABLE OUTPUT MODULE ASSEMBLY (SINGLE)



M5x10
3 pcs.



Required Packages:
1100.1XX

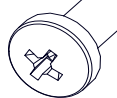
Applications:
-125A-315A DOL/RDOL Modules
-125A-315A PD Modules

1.1 CABLE OUTPUT MODULE ASSEMBLY (SINGLE)

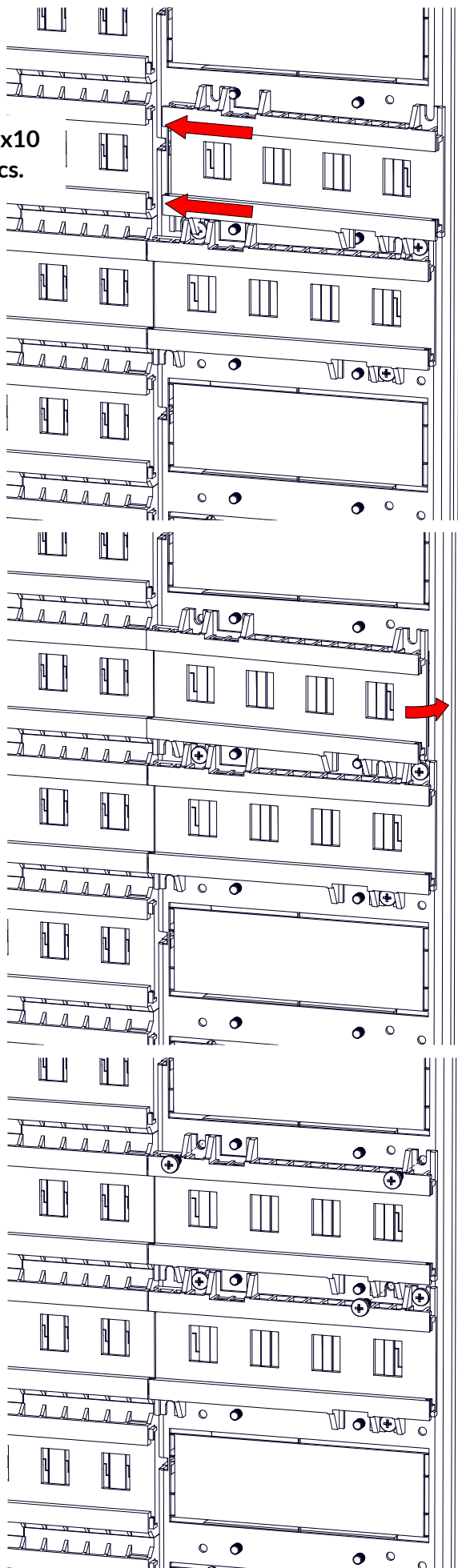
Required Packages:
1100.1XX



1.2 CABLE OUTPUT MODULE ASSEMBLY (DOUBLE)

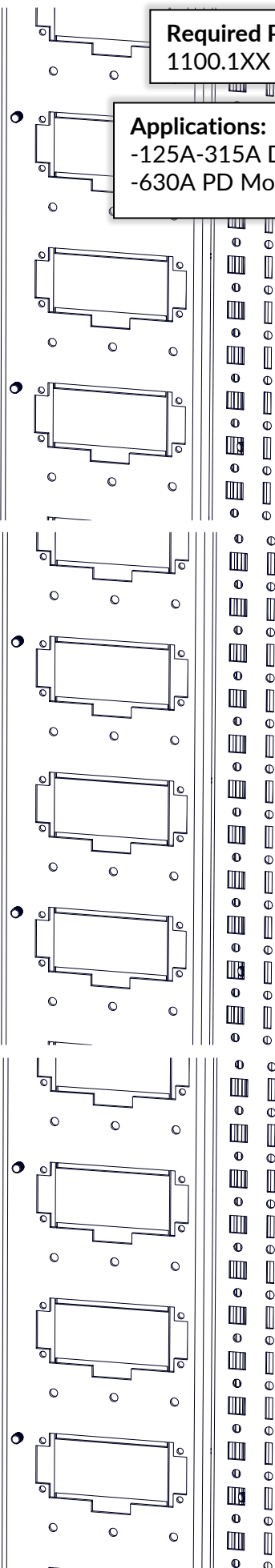


M5x10
3 pcs.



Required Packages:
1100.1XX

Applications:
-125A-315A DS Modules
-630A PD Modules

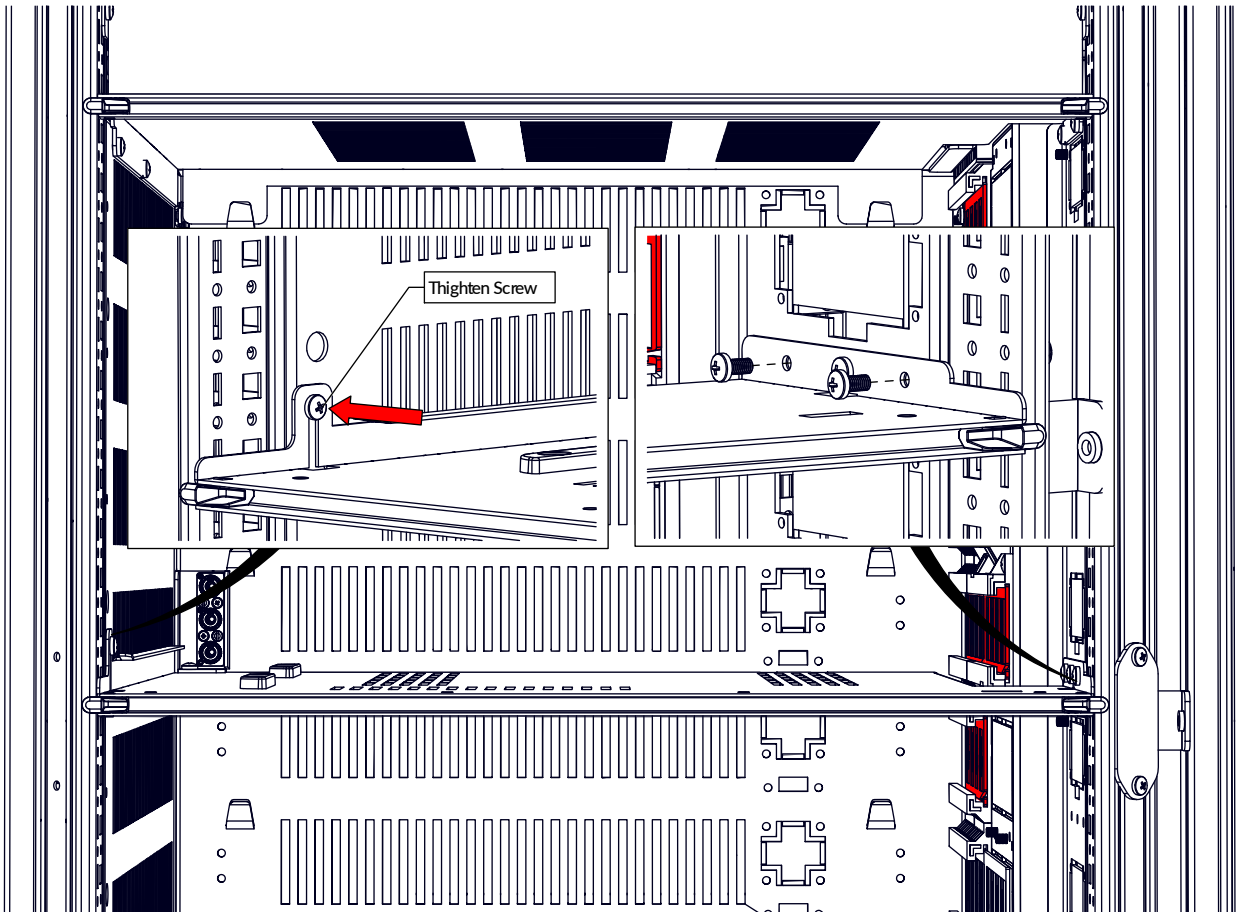
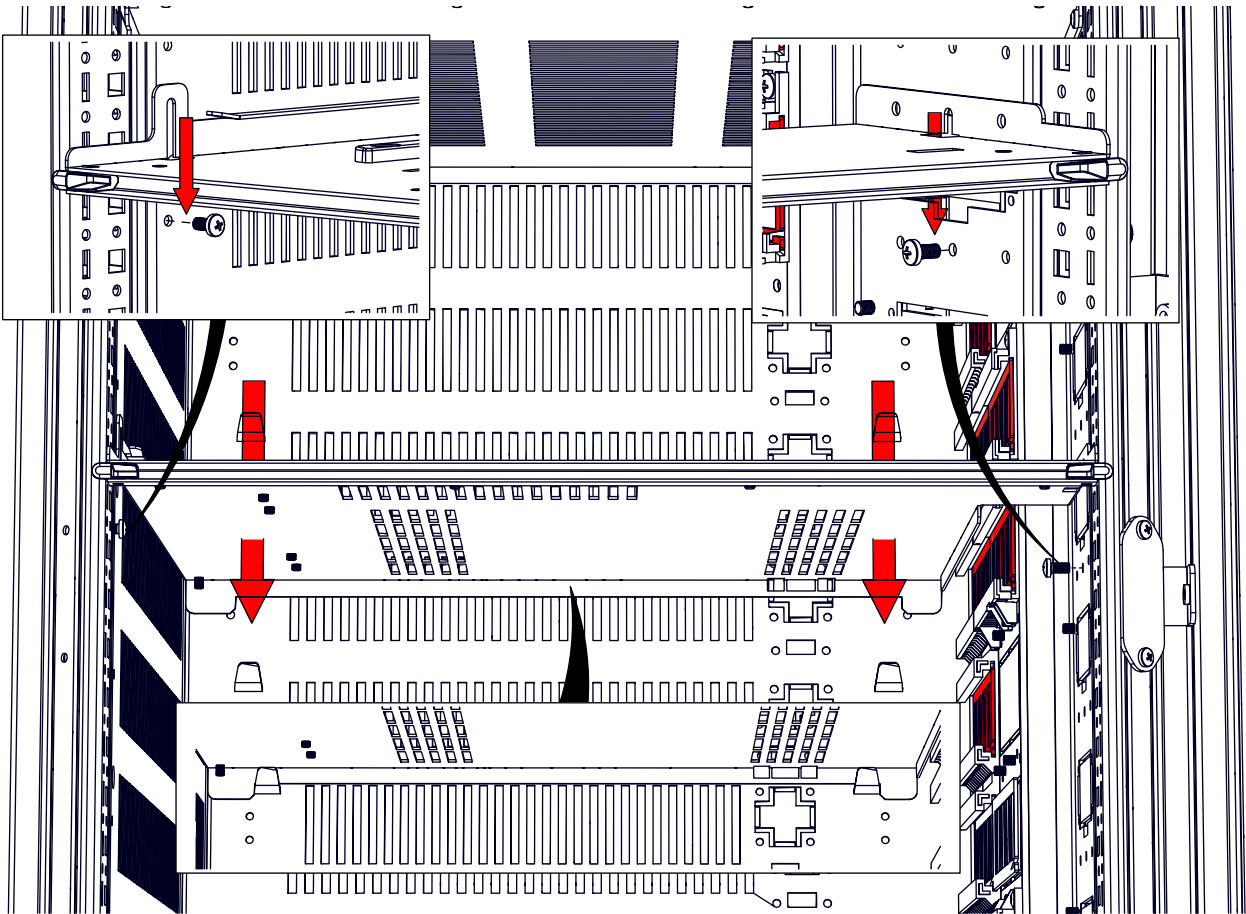


■ 1.2 CABLE OUTPUT MODULE ASSEMBLY (DOUBLE)

Required Packages:
1100.1XX



2. DRAWER BASE ASSEMBLY



3. MCC DOL/RDOL ASSEMBLY

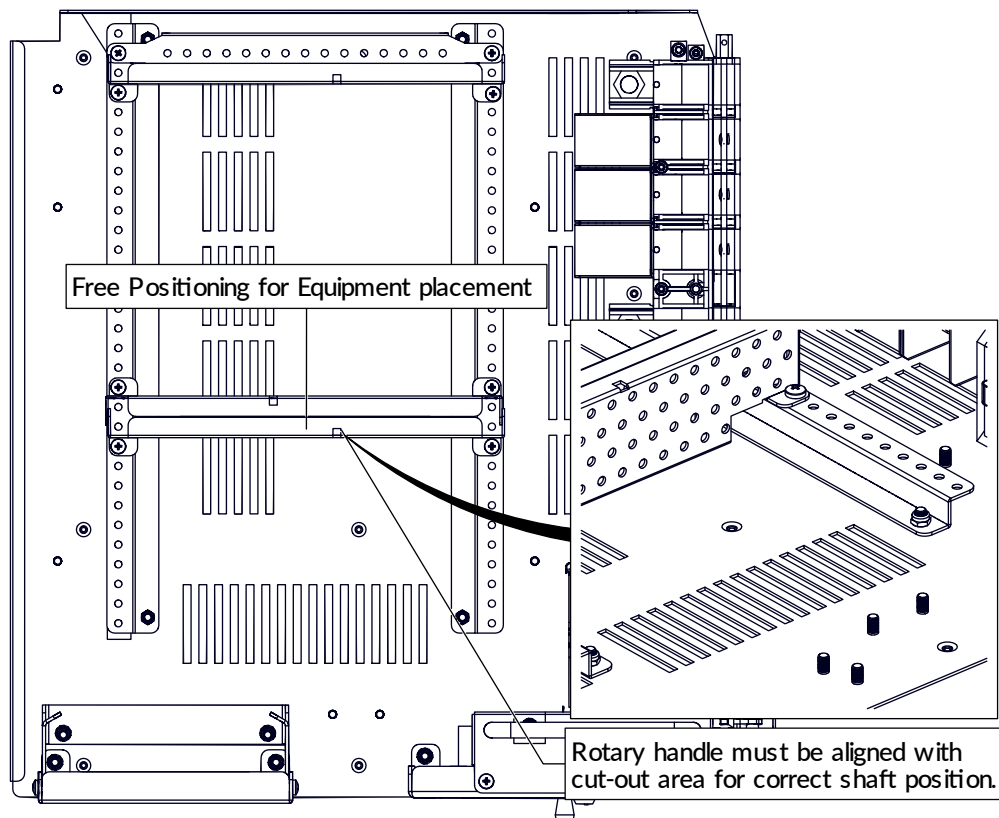
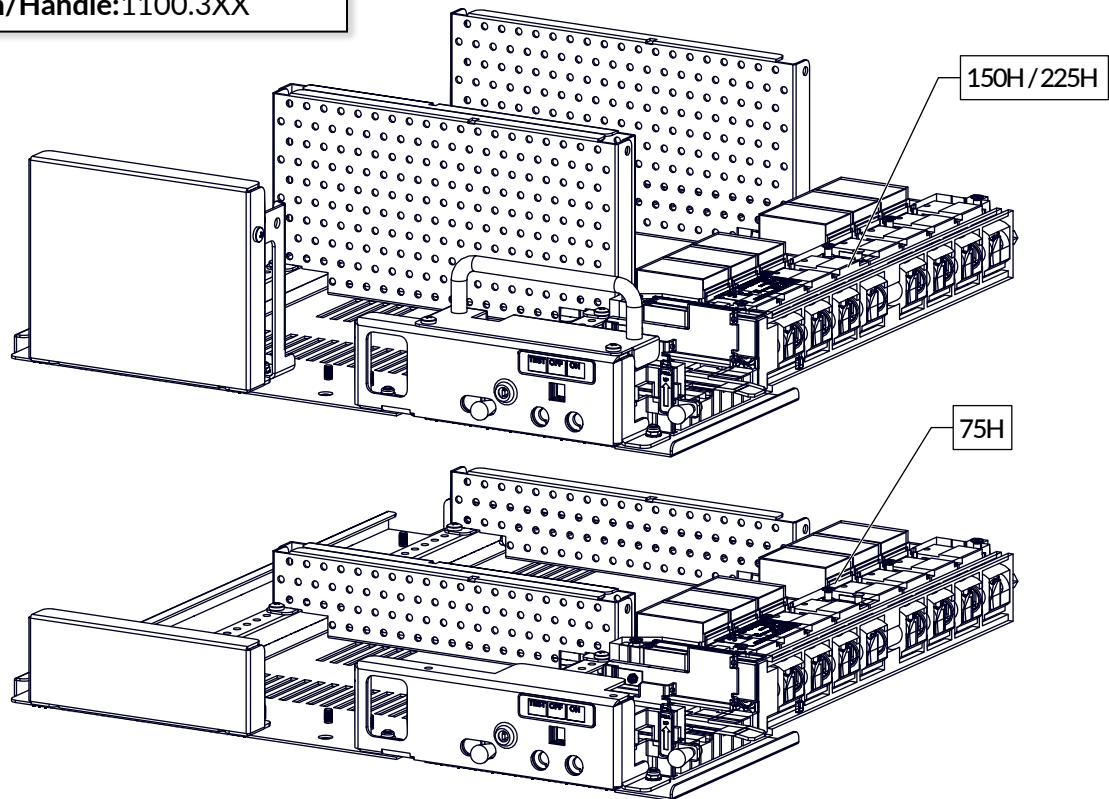
Required Packages:

125A:1100.100

315A:1100.102

Mounting Plate:1100.40X

Button/Handle:1100.3XX



3.1 MCC DOL/RDOL MOUNTING PLATE ASSEMBLY



M5x10
8 Pcs.

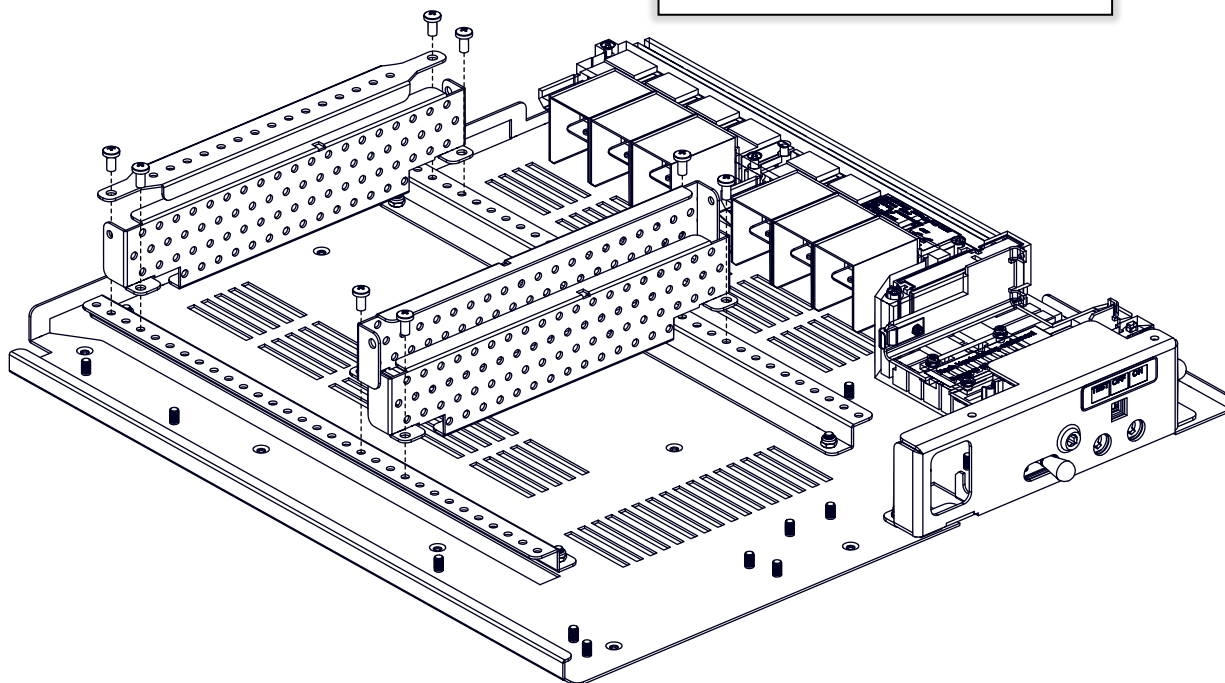
Required Packages:

125A:1100.100

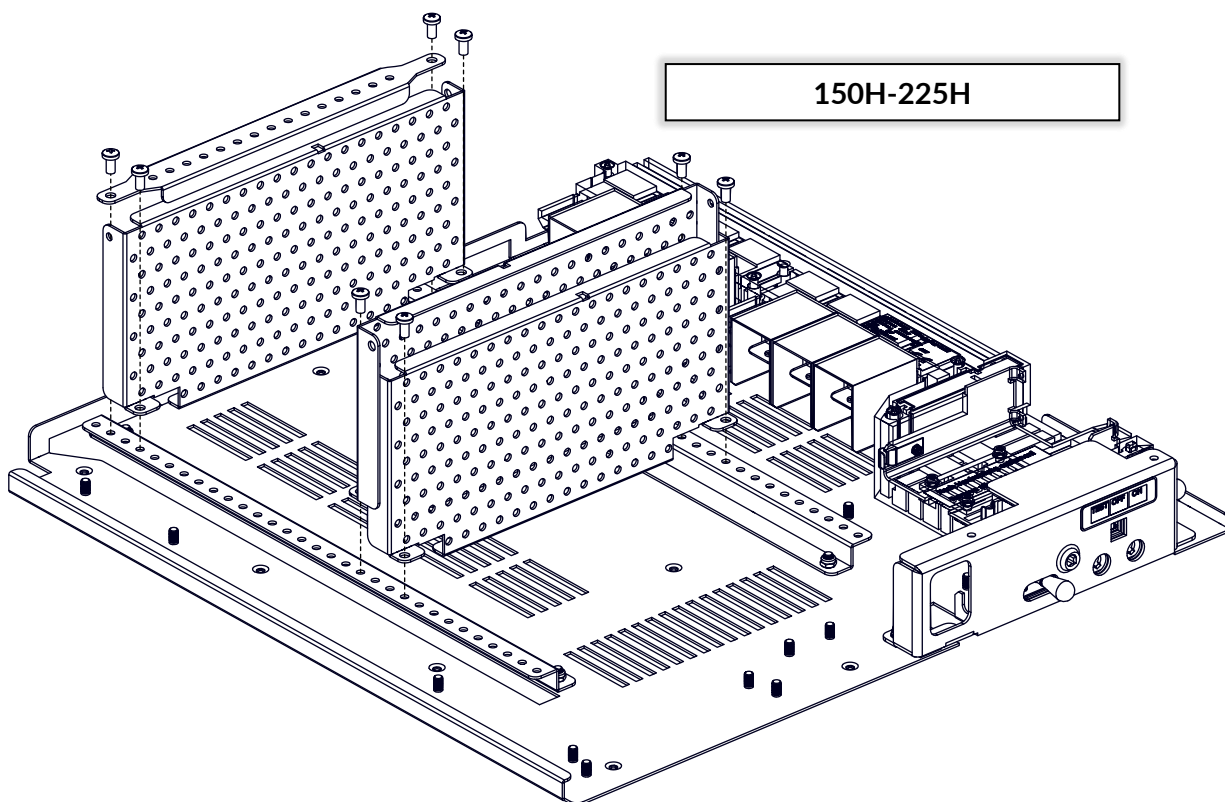
315A:1100.102

Mounting Plate:1100.40X

75H



150H-225H



■ 3.2 MCC DOL/RDOL HANDLE-OPERATING SUPPORT ASSEMBLY

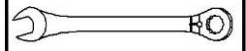
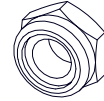
Required Packages:

125A:1100.100

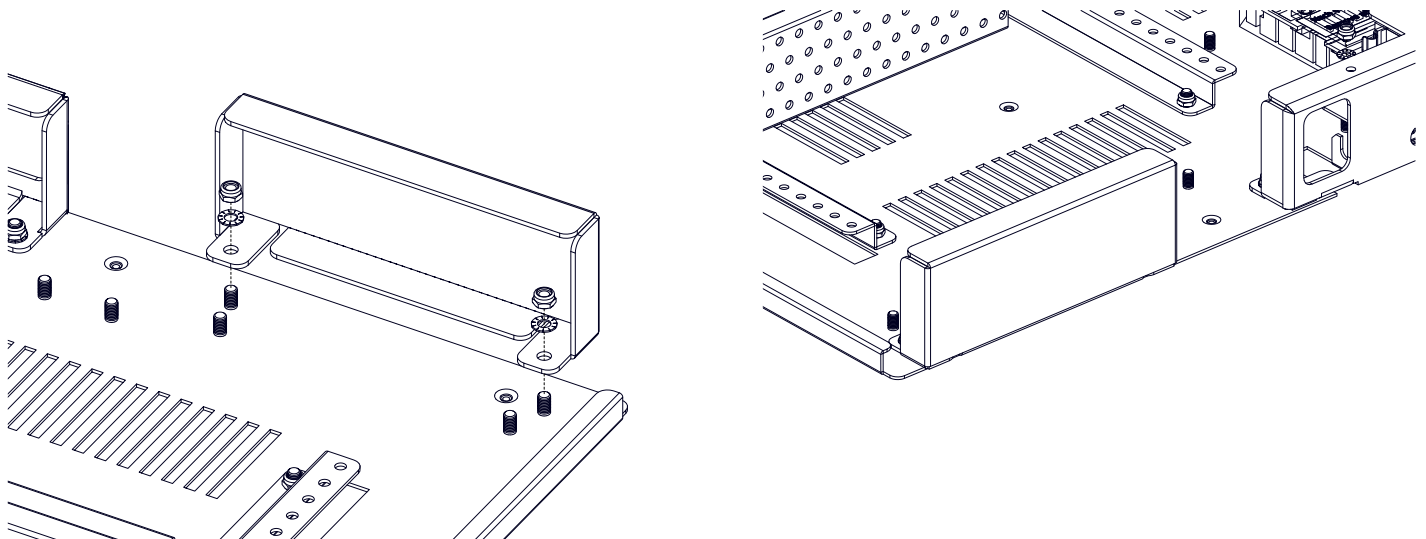
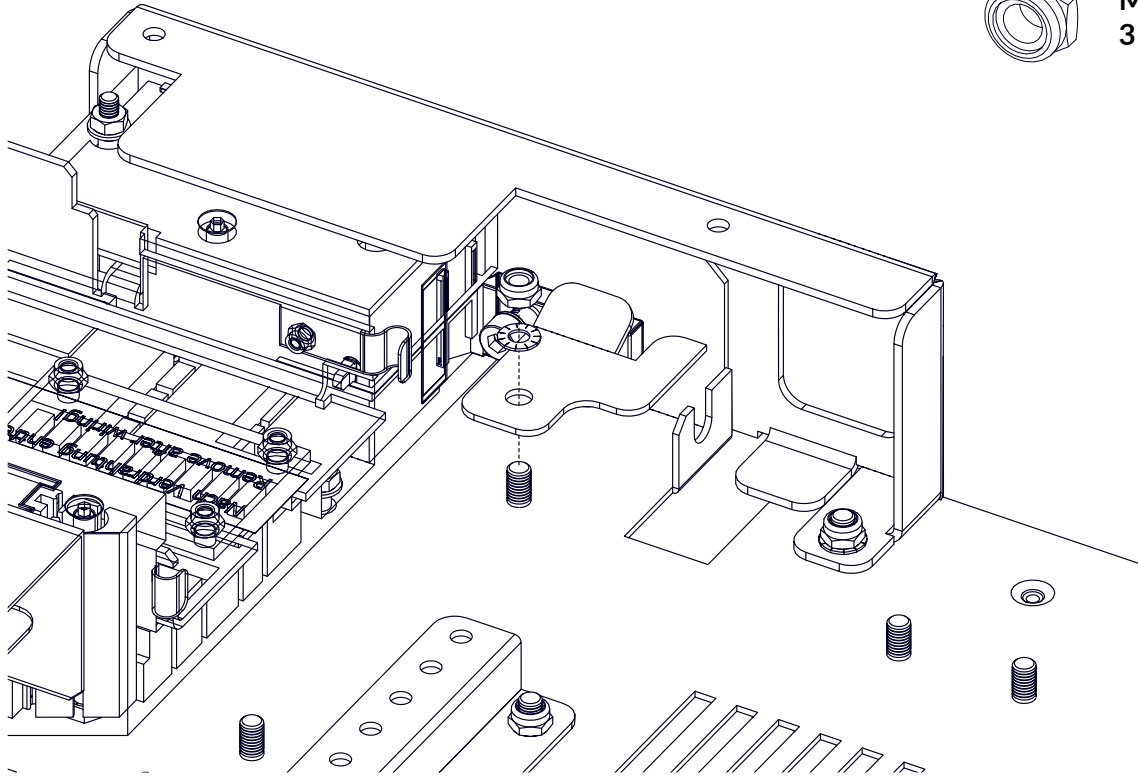
315A:1100.102

Button/Handle:1100.3XX

8mm

M5
3 Pcs.M5
3 Pcs.

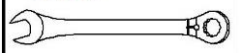
75H



3.2 MCC DOL/RDOL HANDLE-OPERATING SUPPORT ASSEMBLY



8mm



Required Packages:

125A:1100.100

315A:1100.102

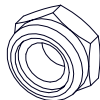
Button/Handle:1100.3XX



M5x10
2 Pcs.

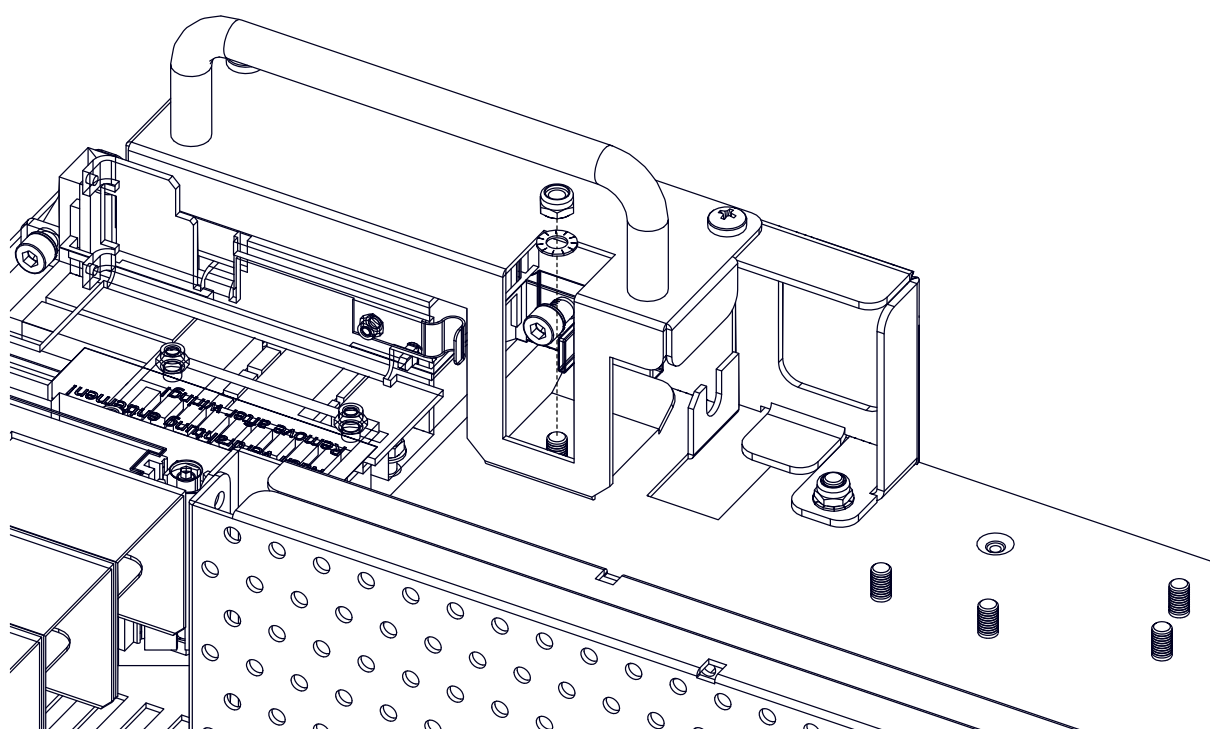
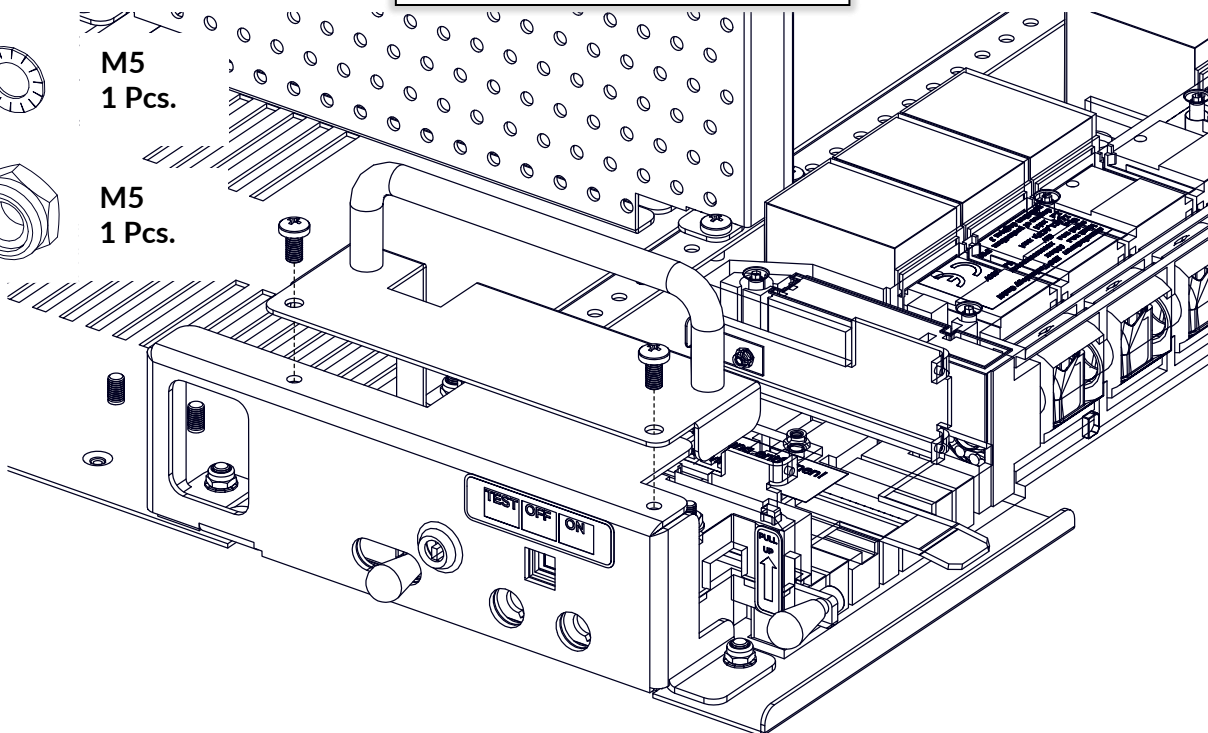


M5
1 Pcs.



M5
1 Pcs.

150H-225H



3.2 MCC DOL/RDOL HANDLE-OPERATING SUPPORT ASSEMBLY

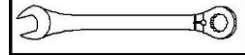
Required Packages:

125A:1100.100

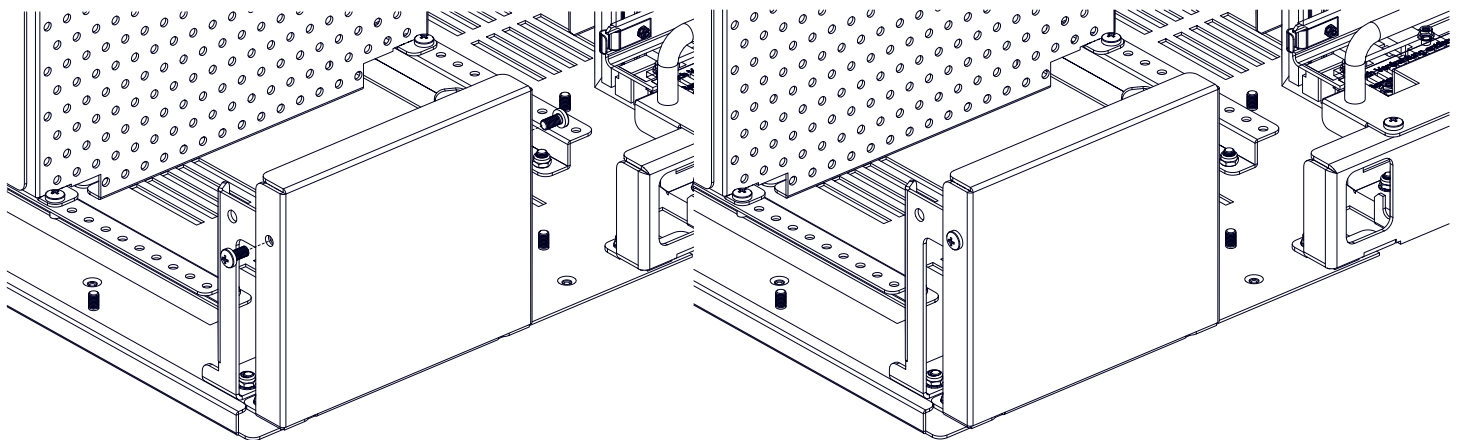
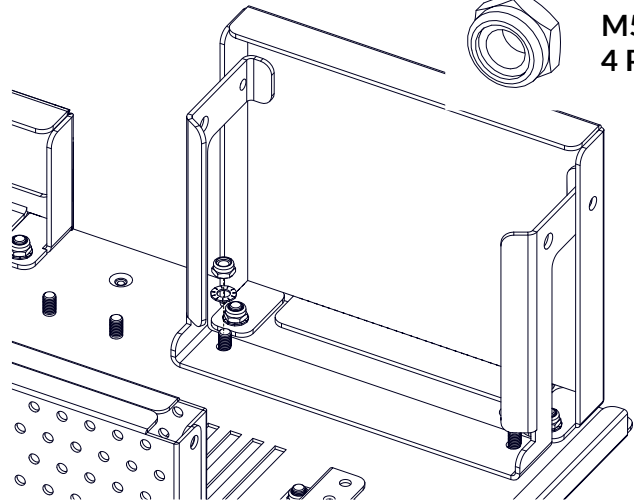
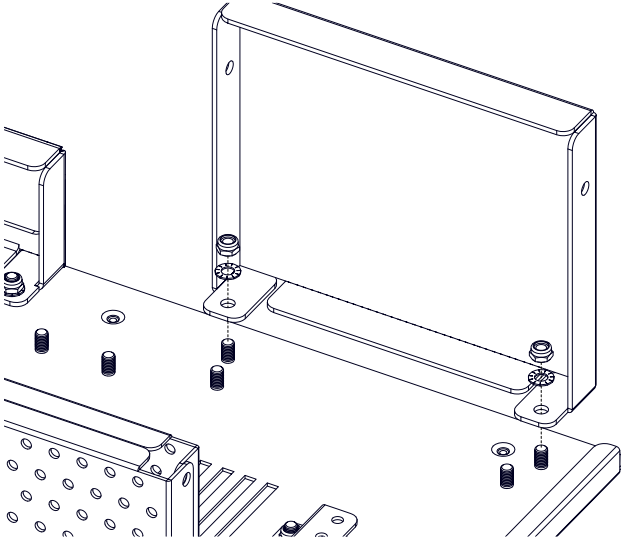
315A:1100.102

Button/Handle:1100.3XX

8mm



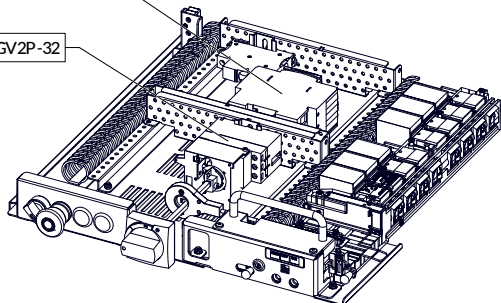
150H-225H

M5x10
2 Pcs.M5
4 Pcs.M5
4 Pcs.

75H DOL SAMPLES

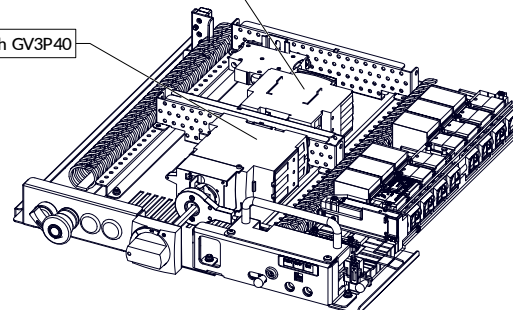
Sch Contactor (Ic1d50am)

Sch GV2P-32



Sch Contactor (Ic1d50am)

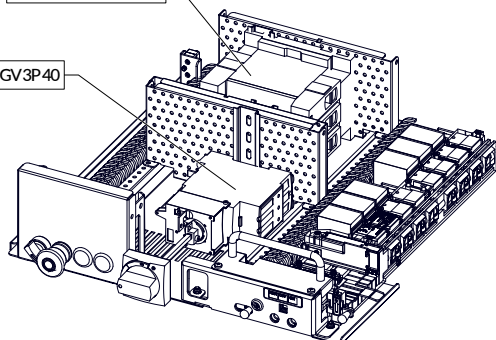
Sch GV3P40



150H DOL SAMPLES

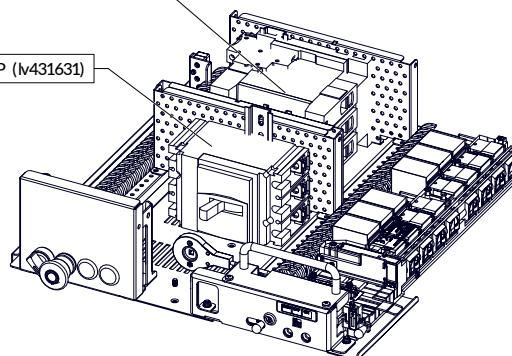
Sch TeSys D (Iadn22)

Sch GV3P40



Sch TeSys D (Iadn22)

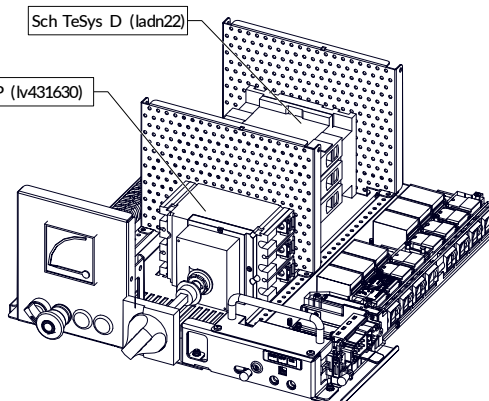
Sch 200A 3P (Iv431631)



225H DOL SAMPLES

Sch TeSys D (Iadn22)

Sch >250A 3P (Iv431630)



4. MCC DS(Delta Star) ASSEMBLY

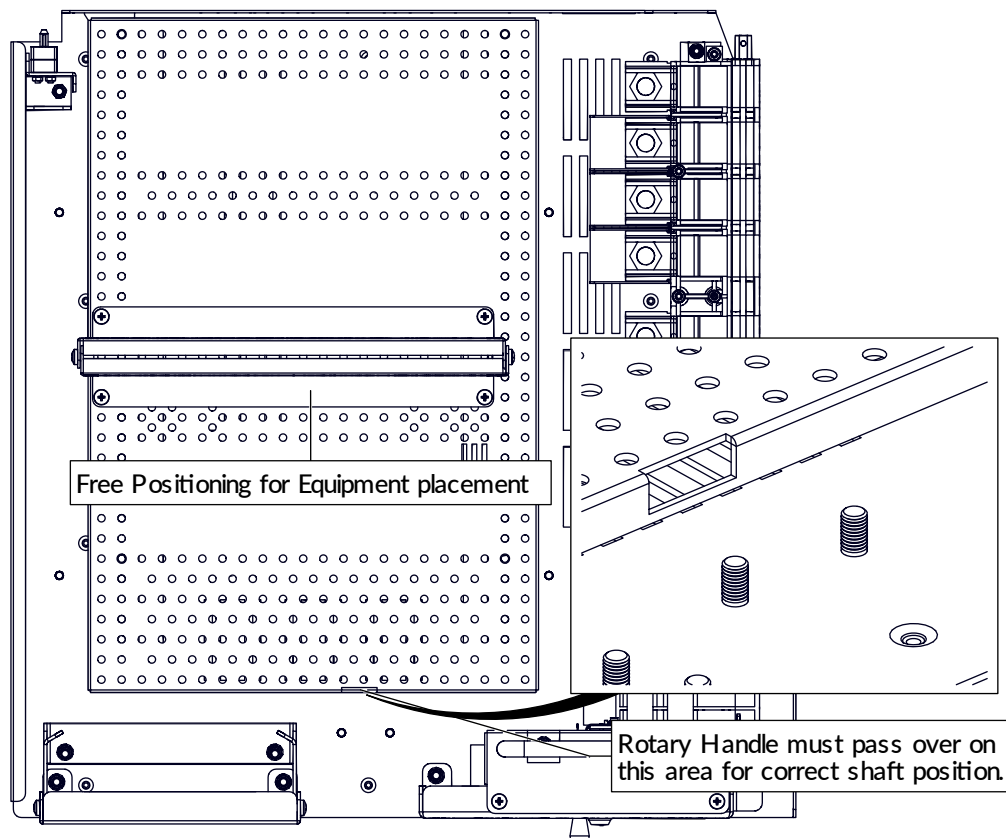
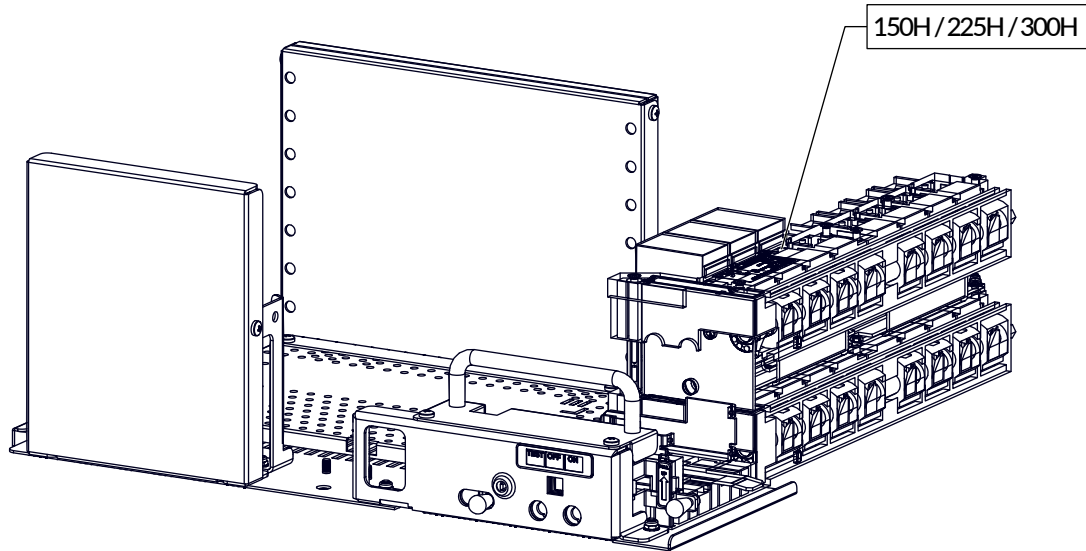
Required Packages:

125A:1100.106

315A:1100.107

Mounting Plate:1100.42X

Button/Handle:1100.3XX



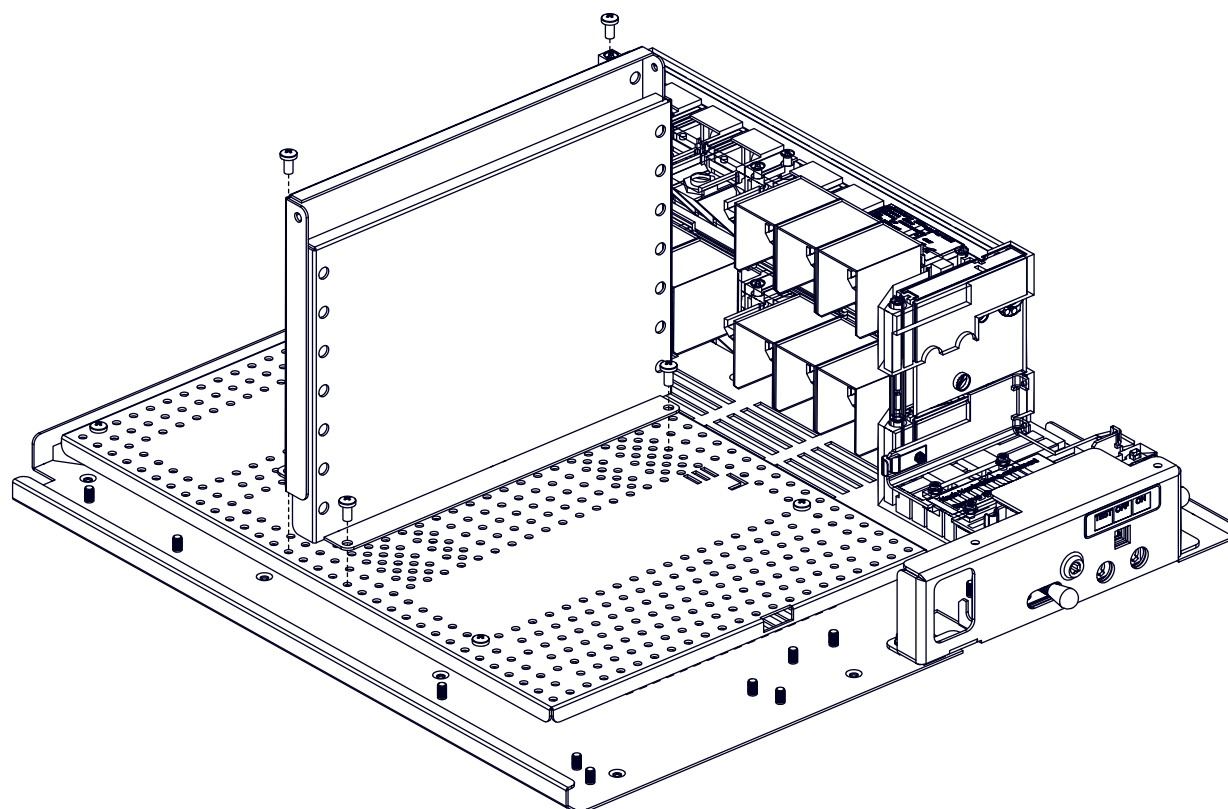
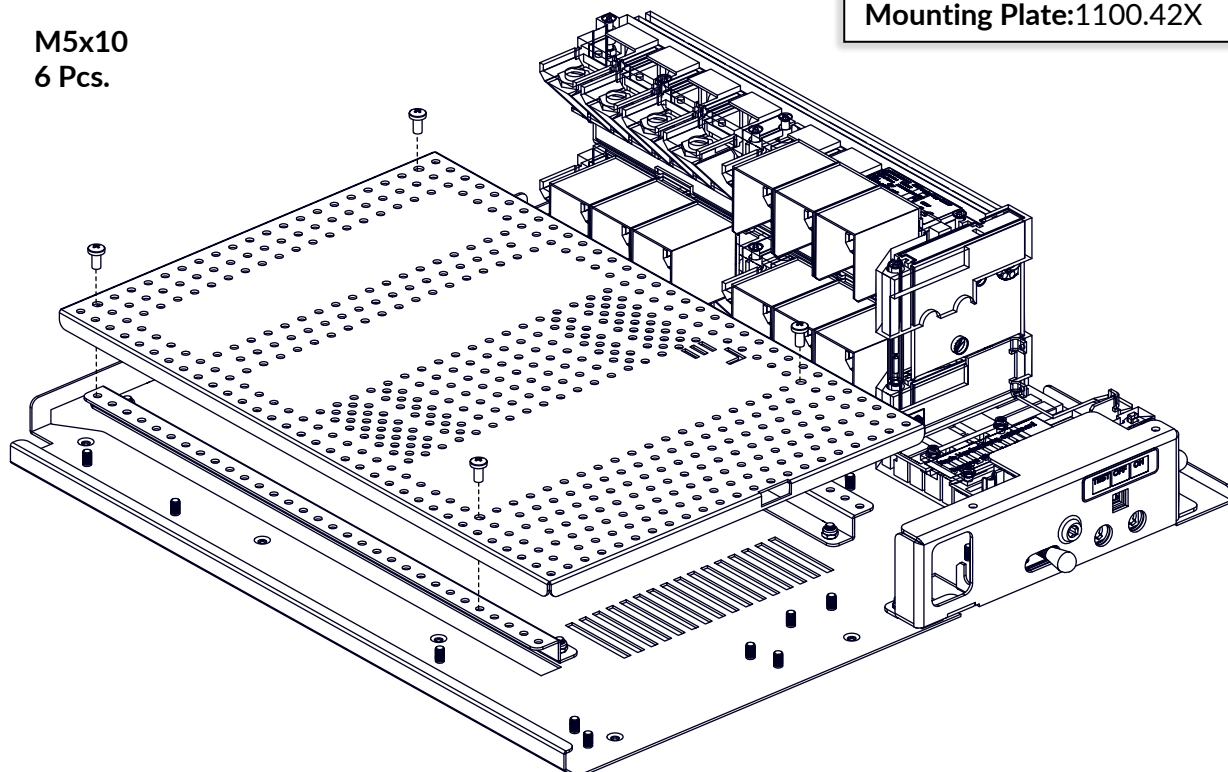
■ 4.1 MCC DS(Delta Star) MOUNTING PLATE ASSEMBLY



M5x10
6 Pcs.

150H-225H-300H

Required Packages:
125A:1100.106
315A:1100.107
Mounting Plate:1100.42X



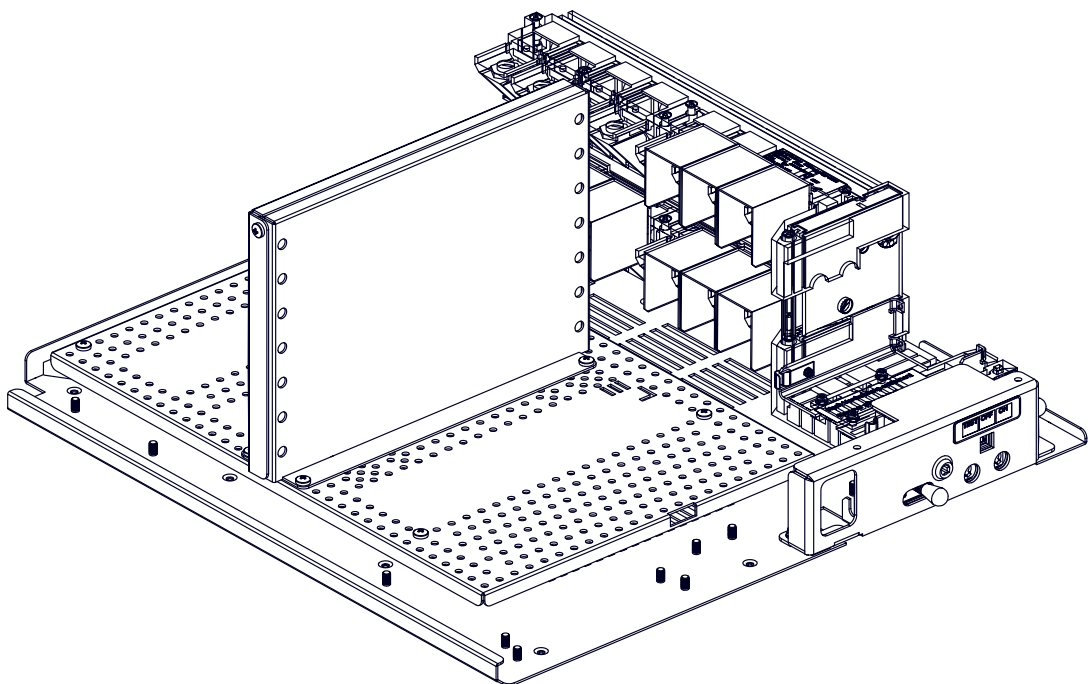
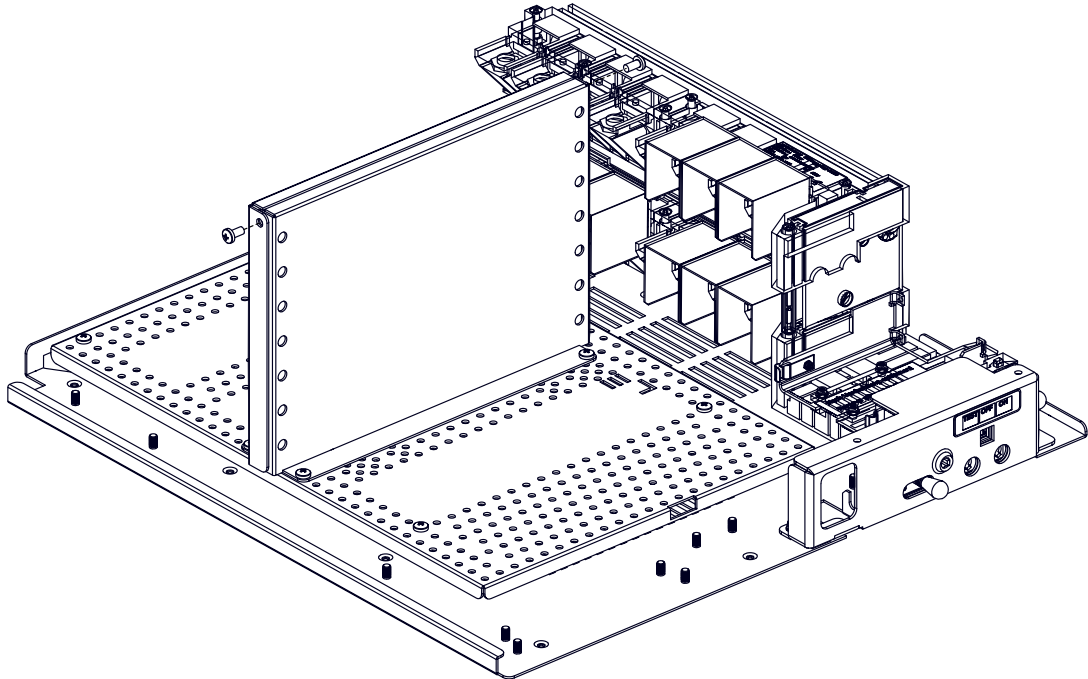
■ 4.2 MCC DS(Delta Star) HANDLE-OPERATING SUPPORT ASSEMBLY

Required Packages:

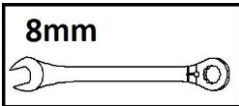
125A:1100.106

315A:1100.107

Mounting Plate:1100.42X

M5x10
6 Pcs.

4.2 MCC DS(Delta Star) HANDLE-OPERATING SUPPORT ASSEMBLY



Required Packages:
125A:1100.106
315A:1100.107
Button/Handle:1100.3XX



M5x10
2 Pcs.

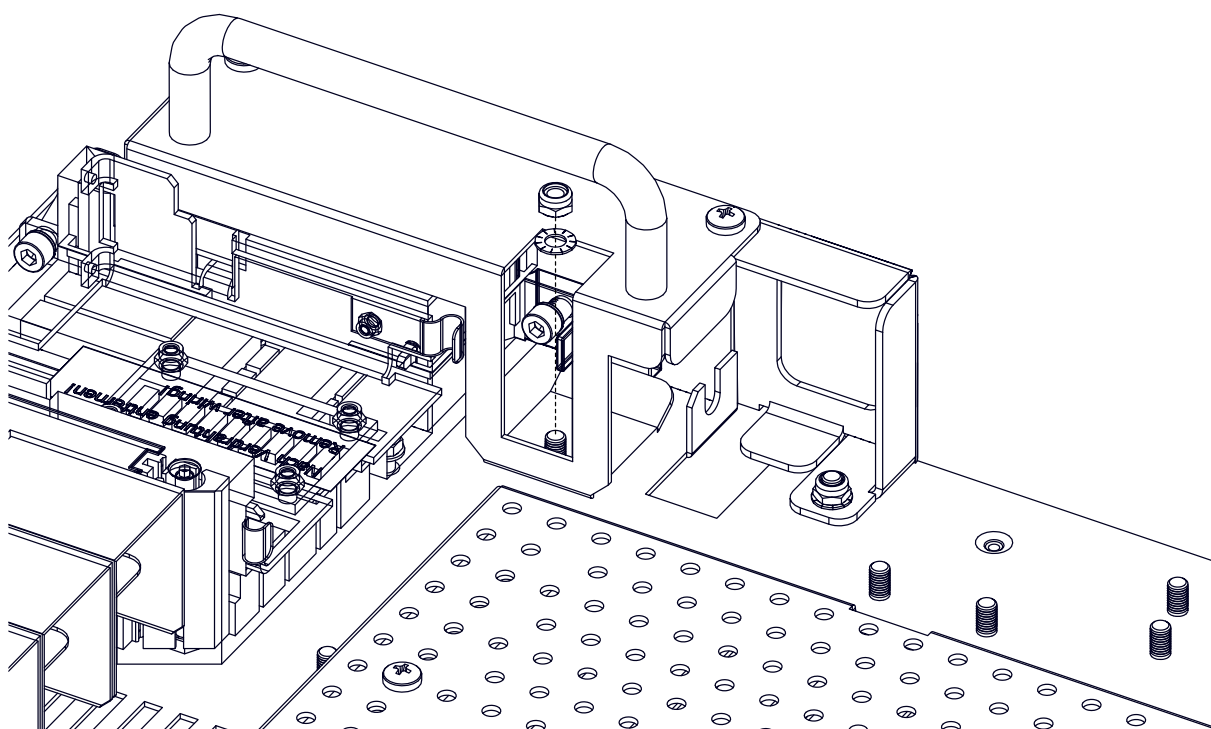
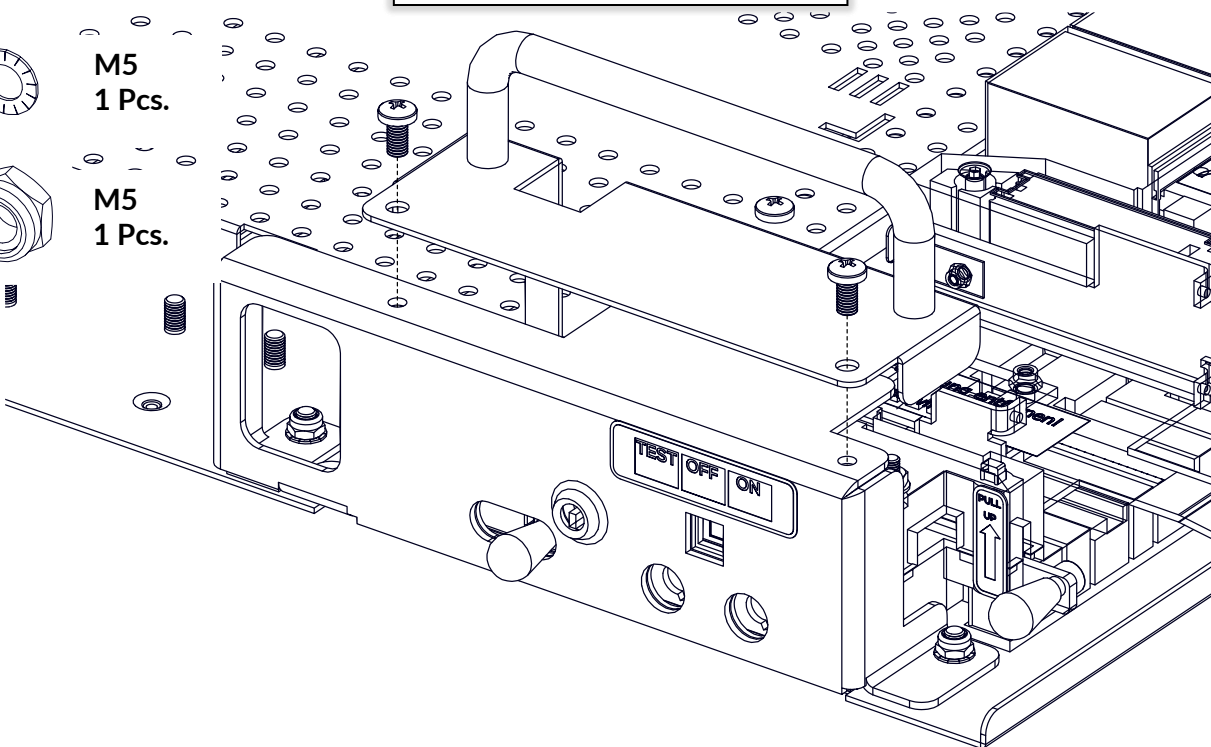


M5
1 Pcs.



M5
1 Pcs.

150H-225H-300H



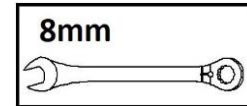
■ 4.2 MCC DS(Delta Star) HANDLE-OPERATING SUPPORT ASSEMBLY

Required Packages:

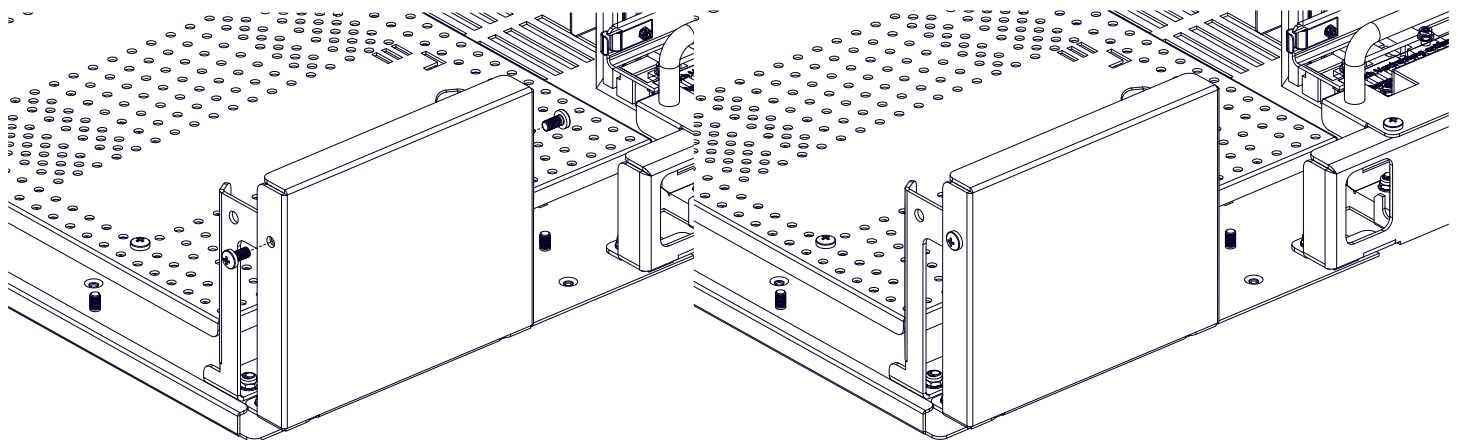
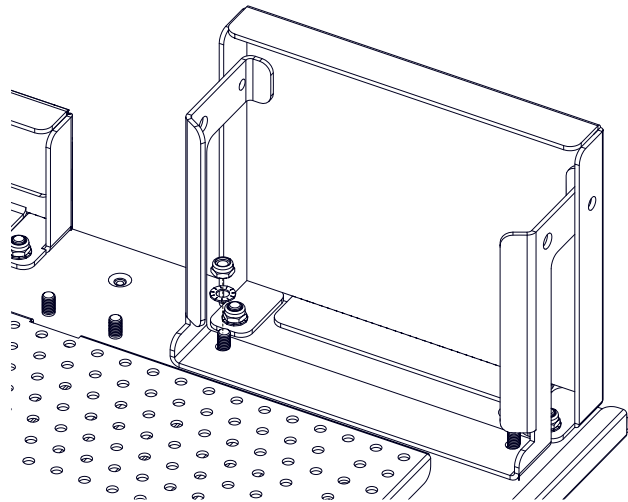
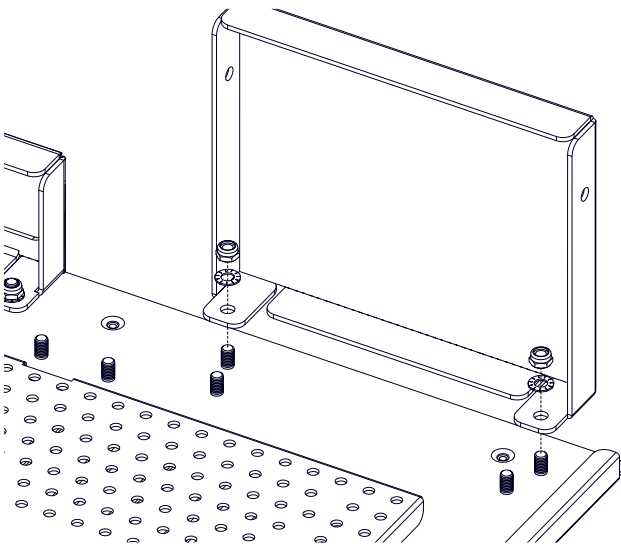
125A:1100.106

315A:1100.107

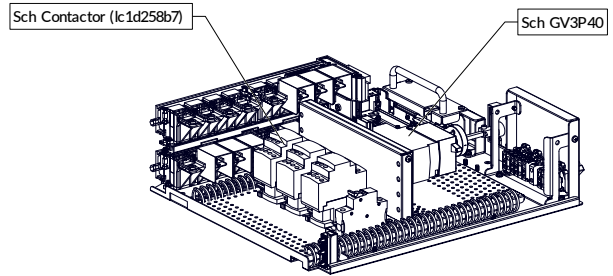
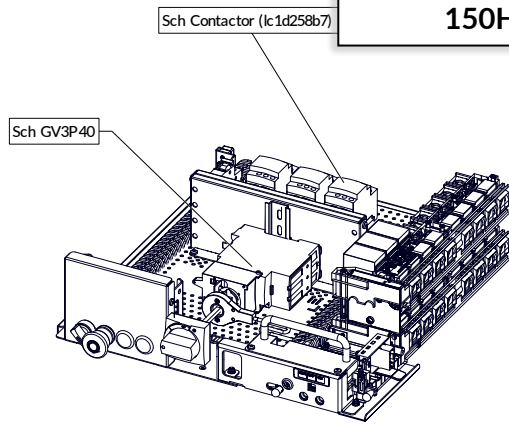
Button/Handle:1100.3XX

M5x10
2 Pcs.M5
4 Pcs.M5
4 Pcs.

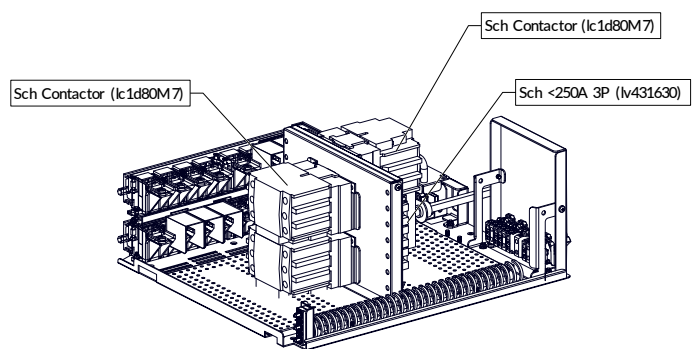
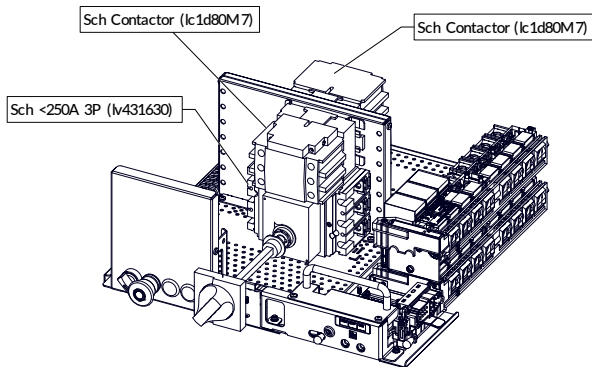
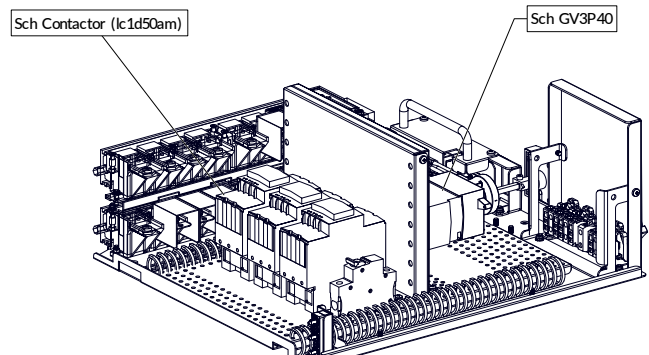
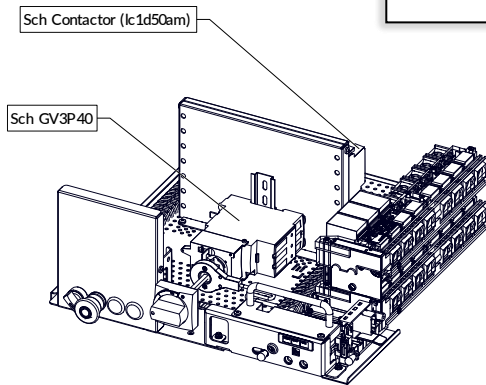
150H-225H



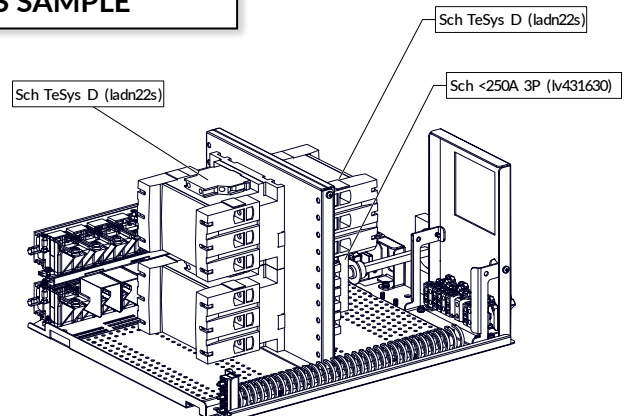
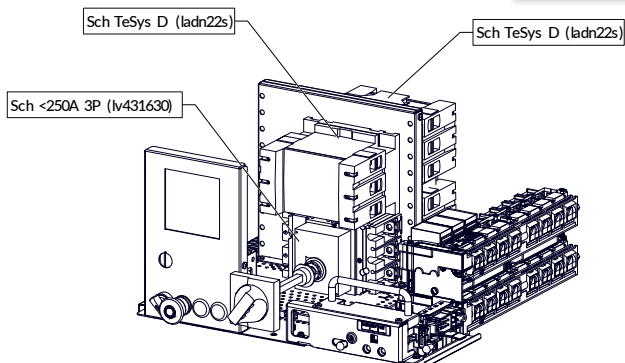
150H DS SAMPLE



225H DS SAMPLE



300H DS SAMPLE



5. MCC PD (Power Distribution) ASSEMBLY

Required Packages:

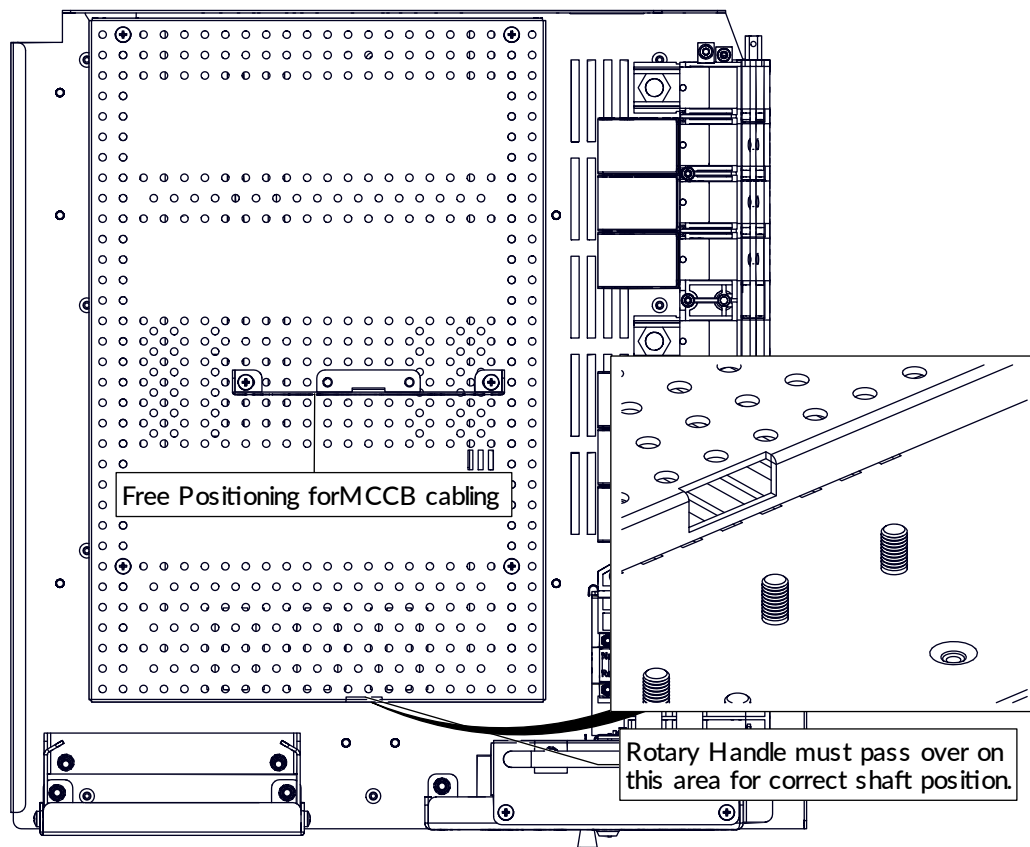
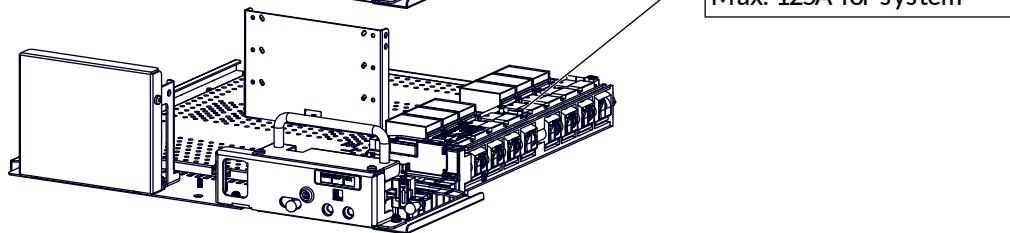
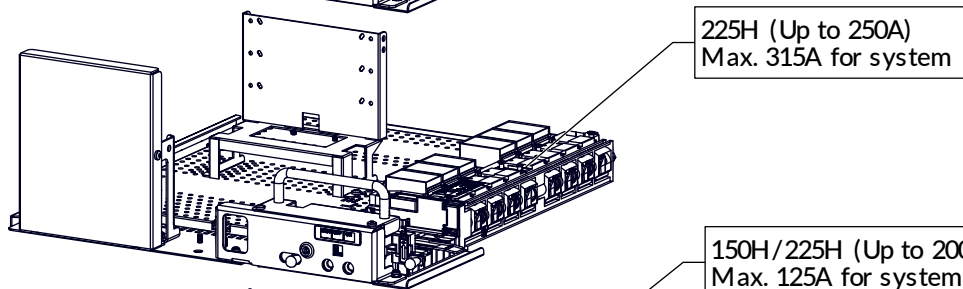
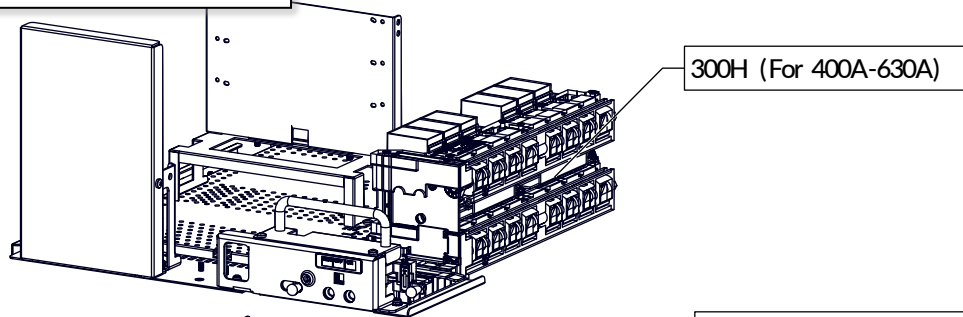
125A:1100.100/101

315A:1100.102/103

630A:1100.104/105

Mounting Plate:1100.44X

Button/Handle:1100.3XX



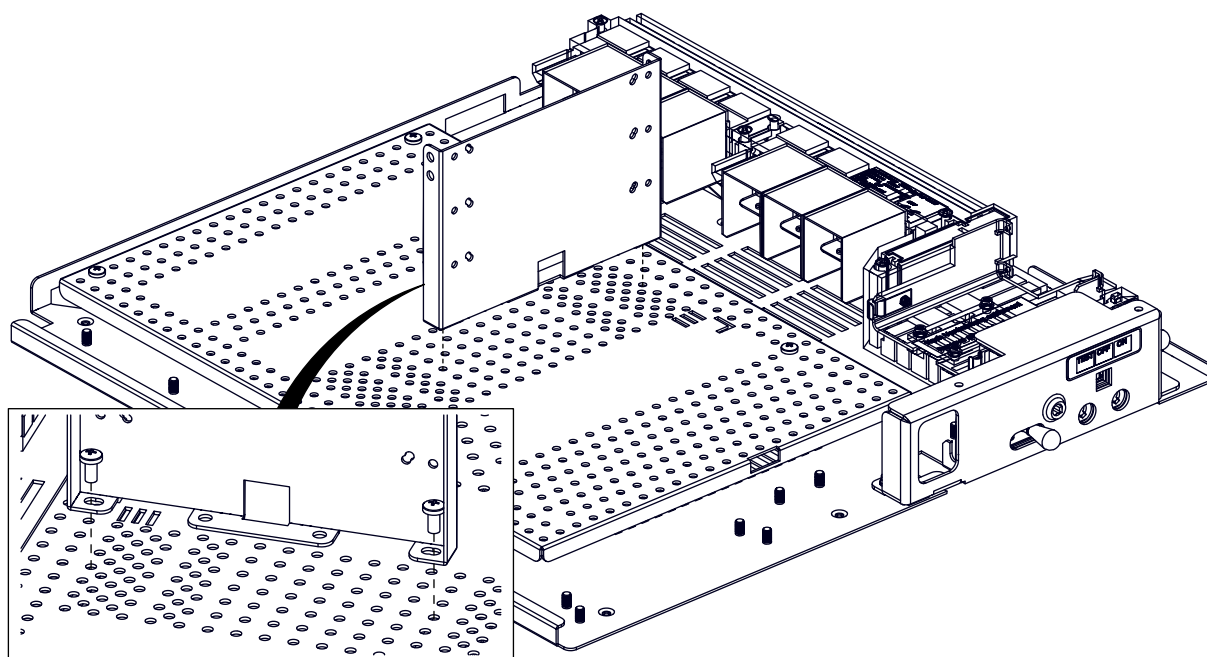
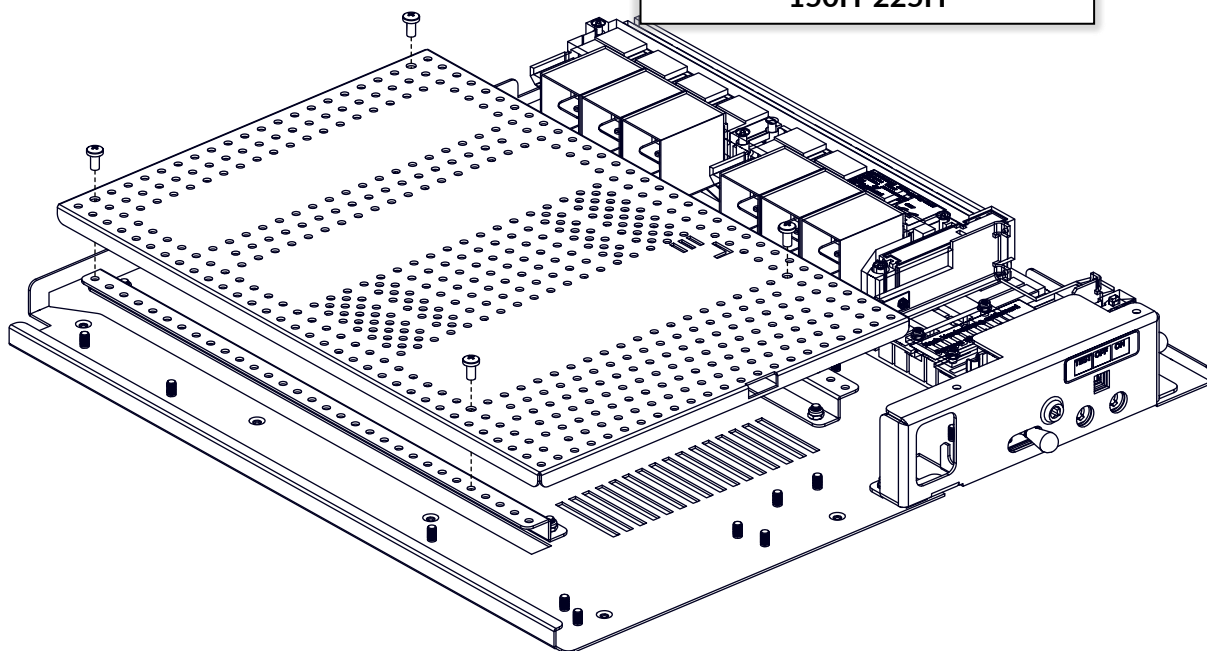
5.1 MCC PD (Power Distribution) MOUNTING PLATE ASSEMBLY



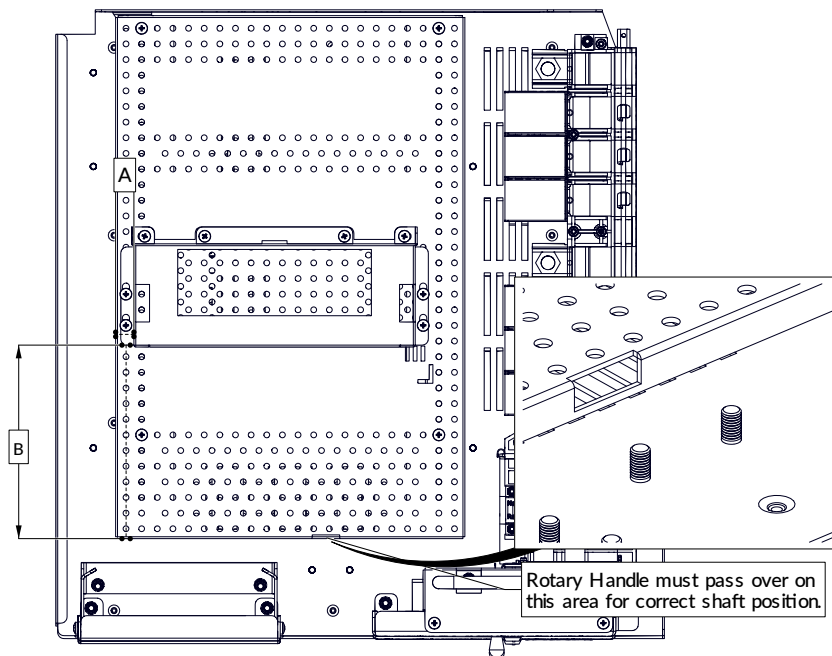
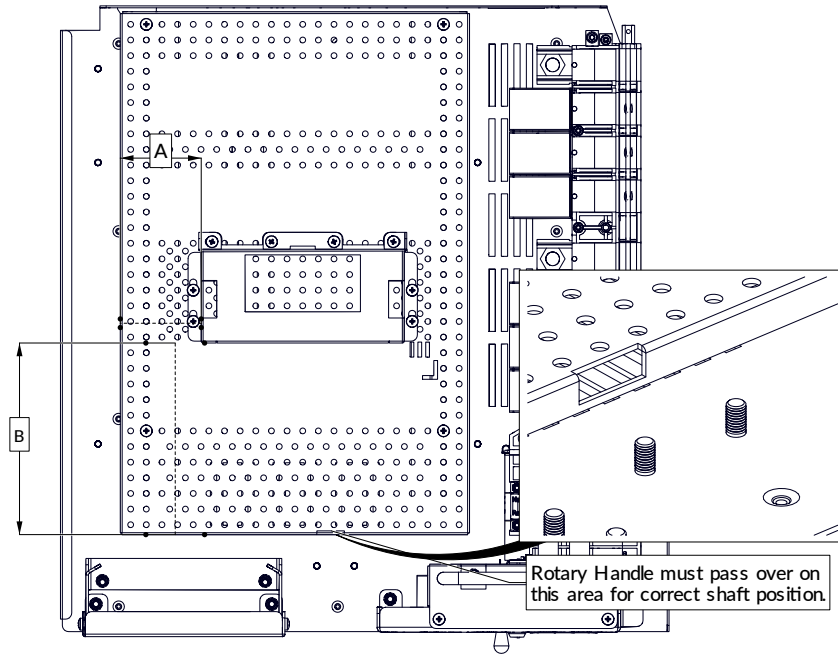
M5x10
6 Pcs.

Required Packages:
125A:1100.100/101
315A:1100.102/103
Mounting Plate:1100.440

150H-225H



■ 5.1 MCC PD (Power Distribution) MOUNTING PLATE ASSEMBLY



■ 5.1 MCC PD (Power Distribution) MOUNTING PLATE ASSEMBLY



M5x10
12 Pcs.

225H-300H

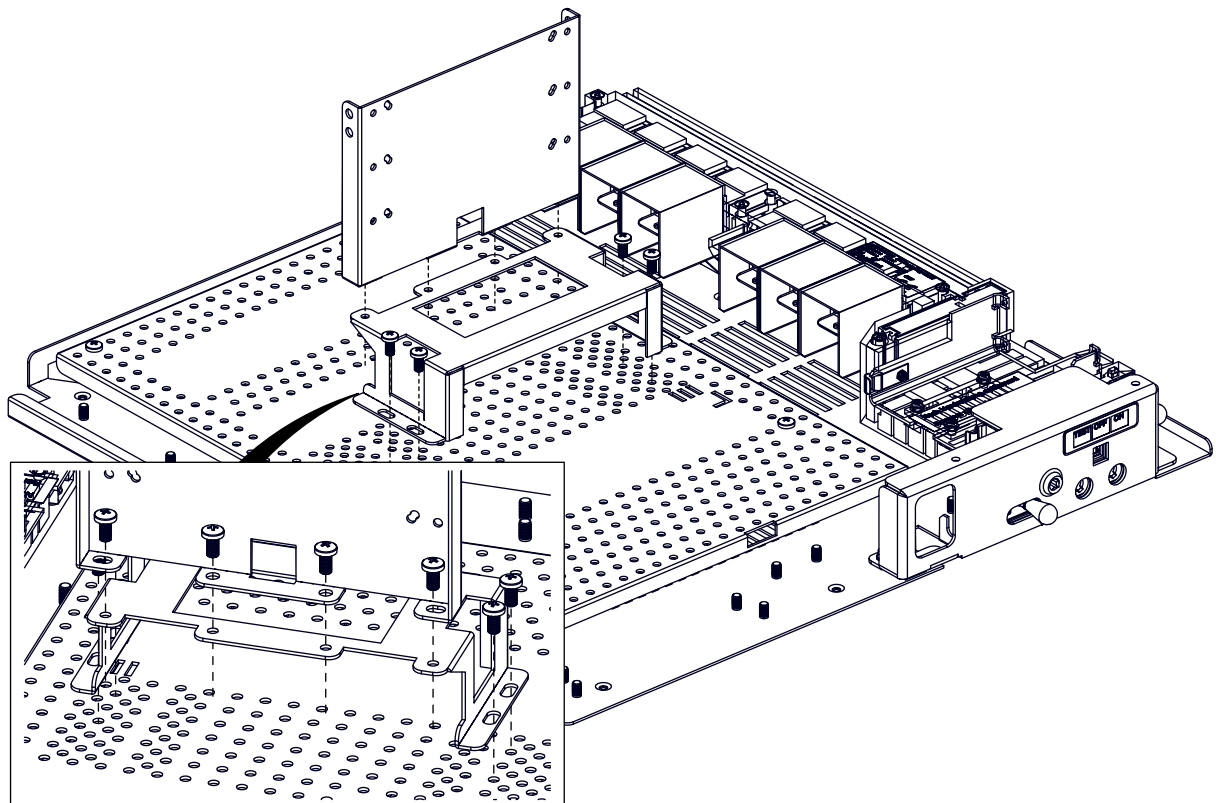
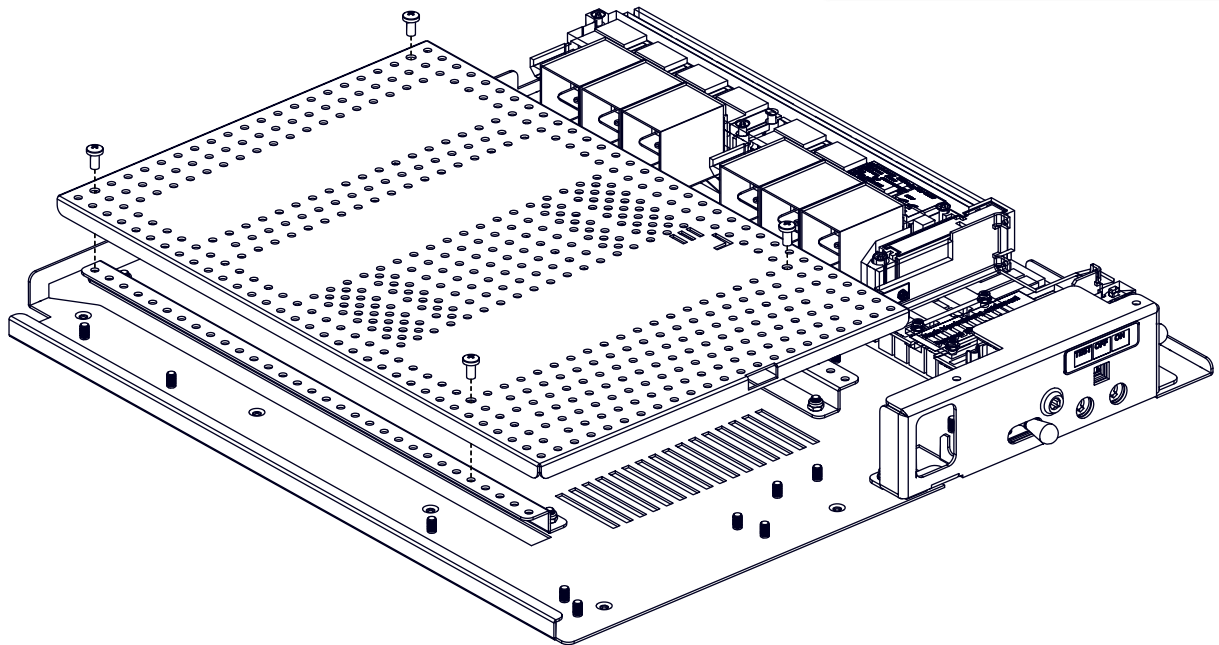
Required Packages:

125A:1100.100/101

315A:1100.102/103

630A:1100.104/105

Mounting Plate:1100.44X



5.2 MCC PD (Power Distribution) HANDLE-OPERATING SUPPORT ASSEMBLY

Required Packages:

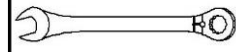
125A:1100.100/101

315A:1100.102/103

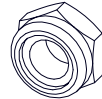
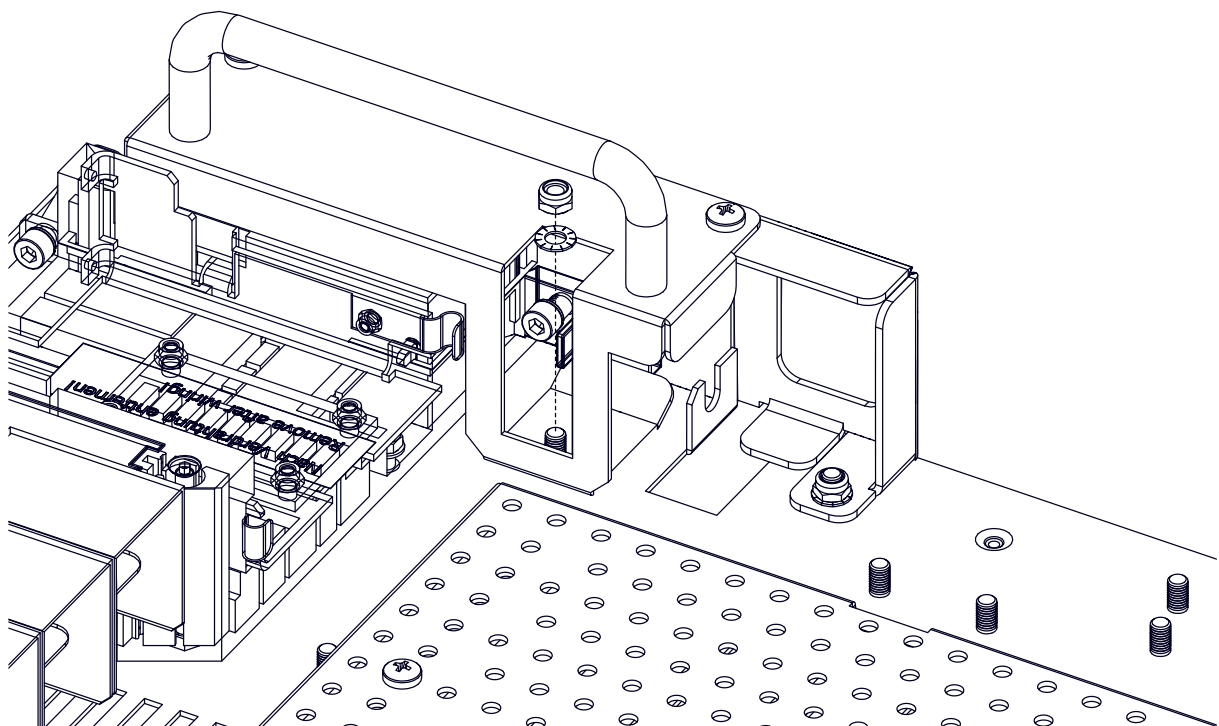
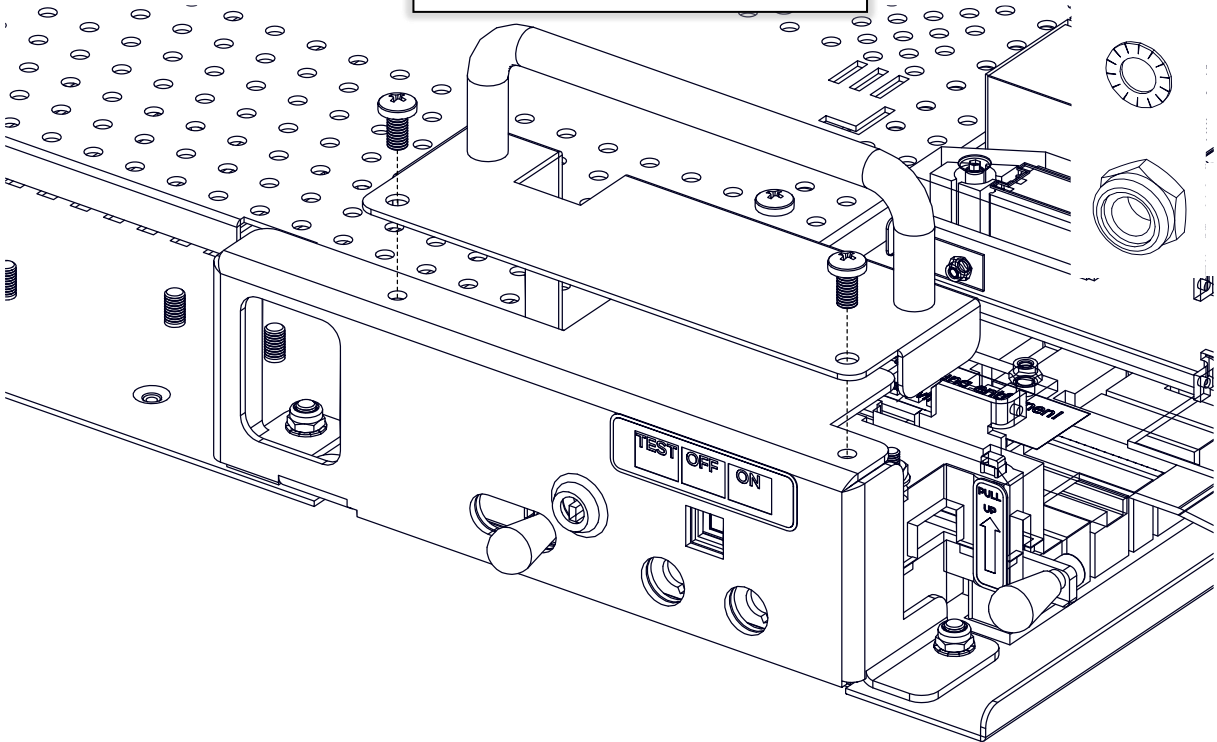
630A:1100.104/105

Button/Handle:1100.3XX

8mm



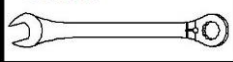
150H-225H-300H

M5x10
2 Pcs.M5
1 Pcs.M5
1 Pcs.

5.2 MCC PD (Power Distribution) HANDLE-OPERATING SUPPORT ASSEMBLY



8mm



Required Packages:

125A:1100.100

315A:1100.102

Button/Handle:1100.3XX

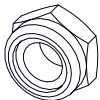


M5x10
2 Pcs.

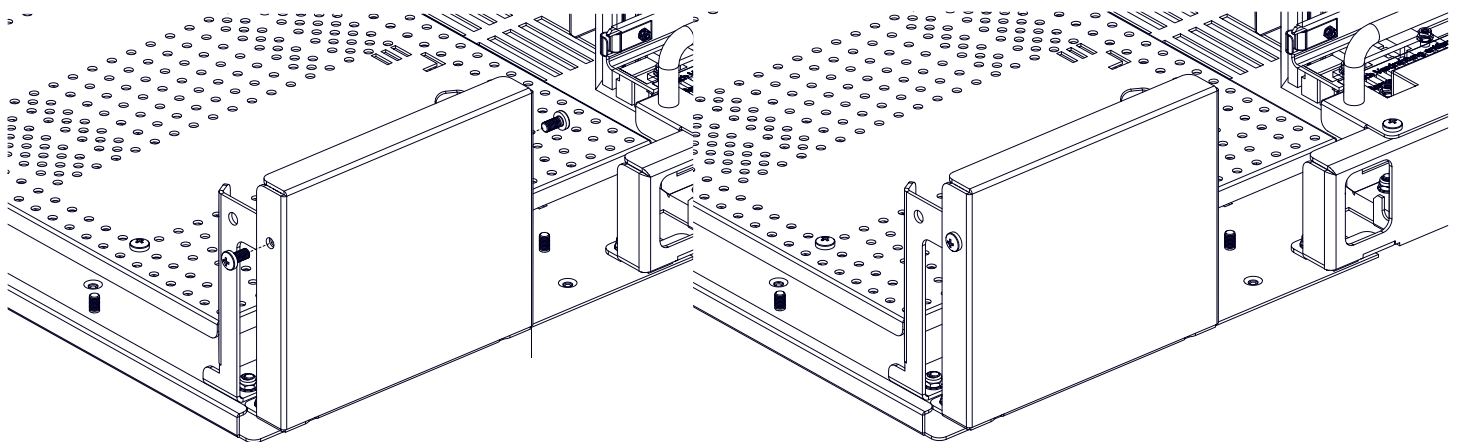
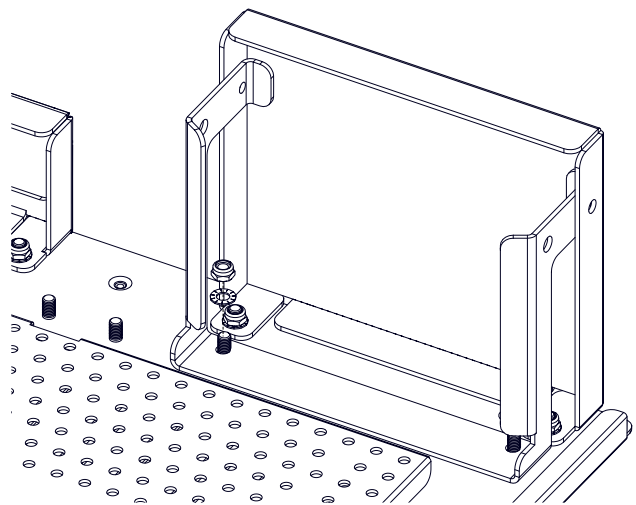
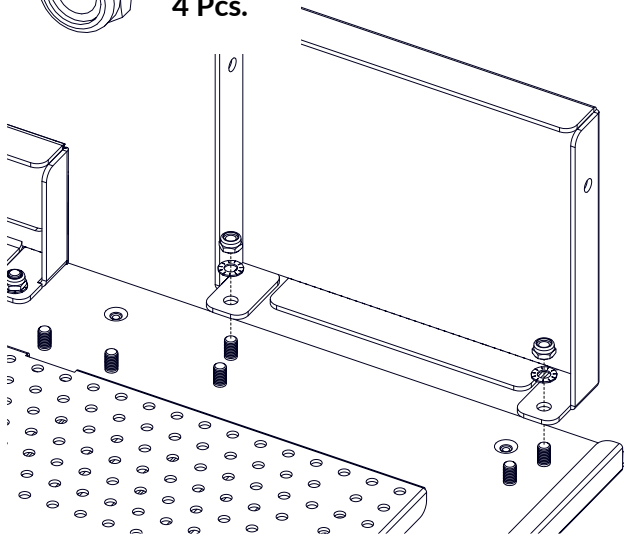
150H-225H-300H



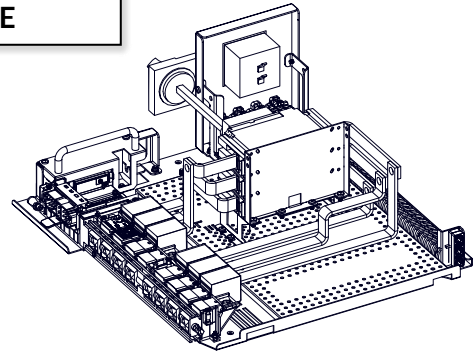
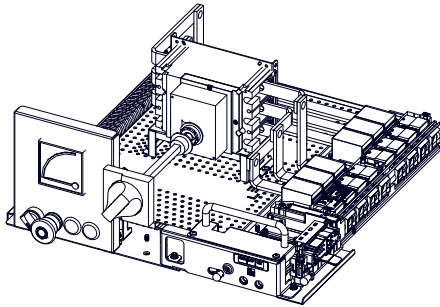
M5
4 Pcs.



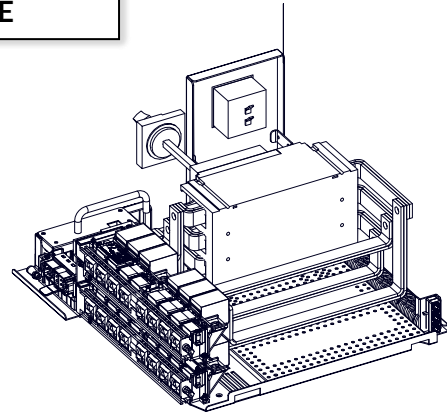
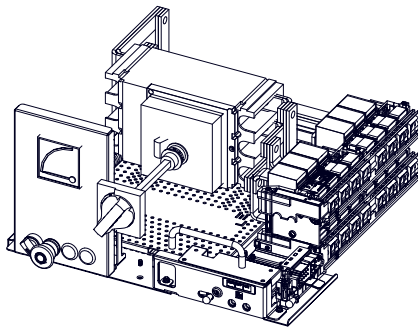
M5
4 Pcs.

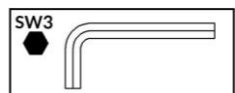


225H PD SAMPLE

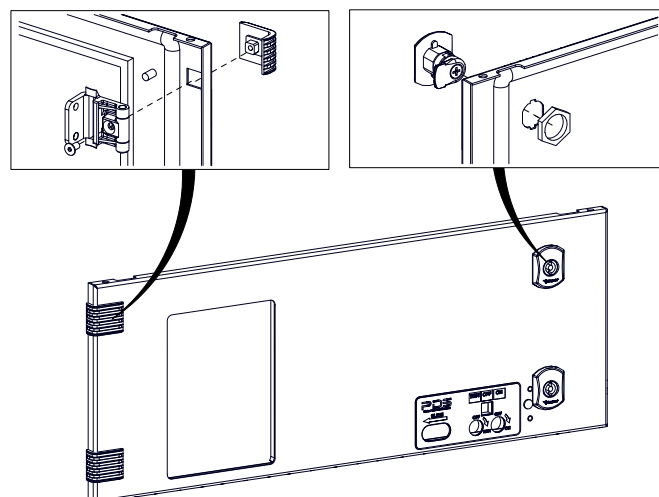
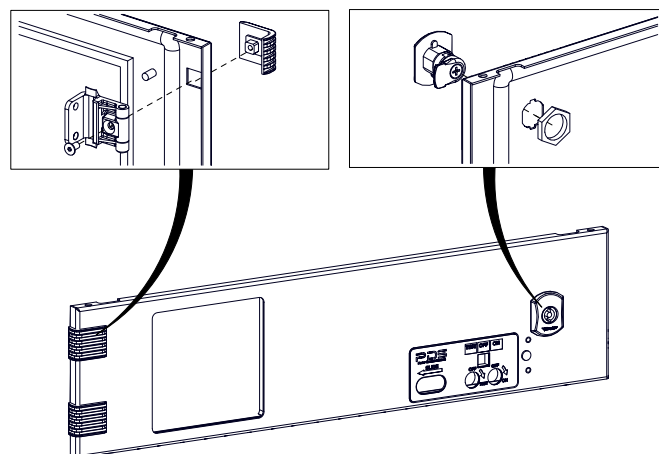
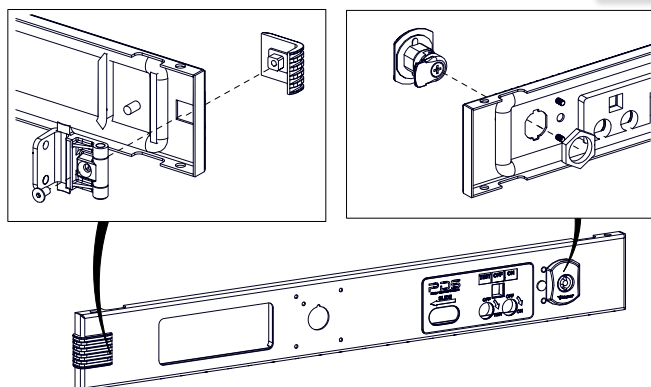


300H PD SAMPLE



6. FRONT DOOR ASSEMBLY

Required Packages:
1100.3XX



6. FRONT DOOR ASSEMBLY

Required Packages:
1100.3XX

Safety Spring

5,5mm



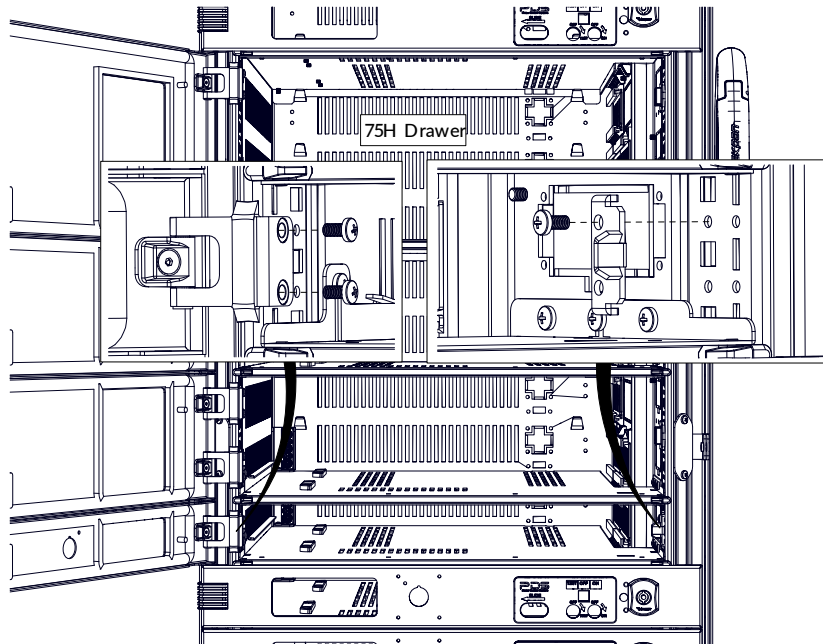
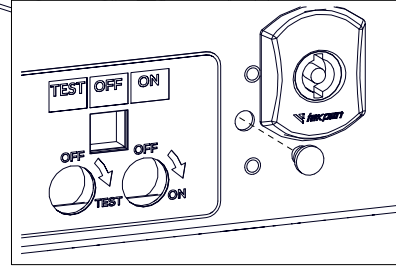
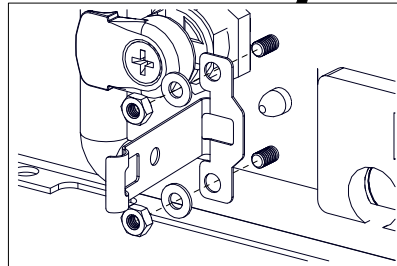
M3



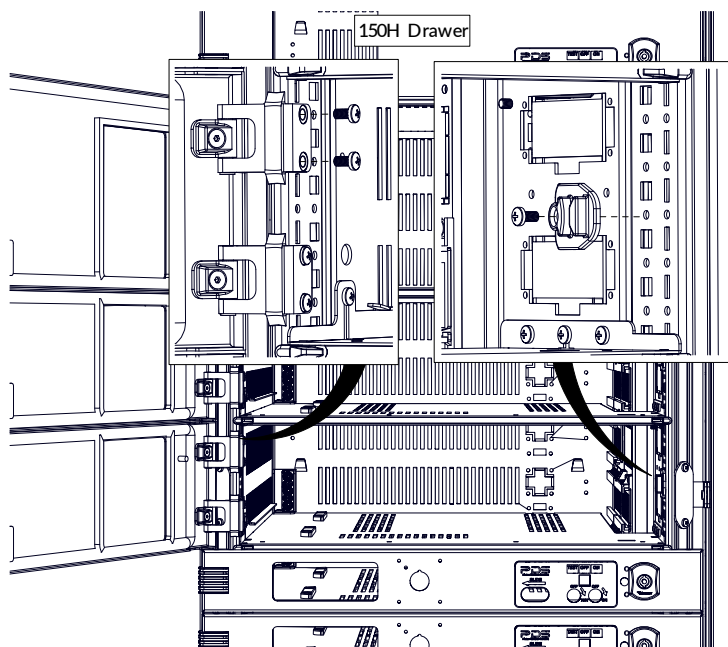
M3



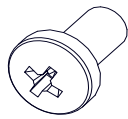
M3



M5x10
3 pcs.

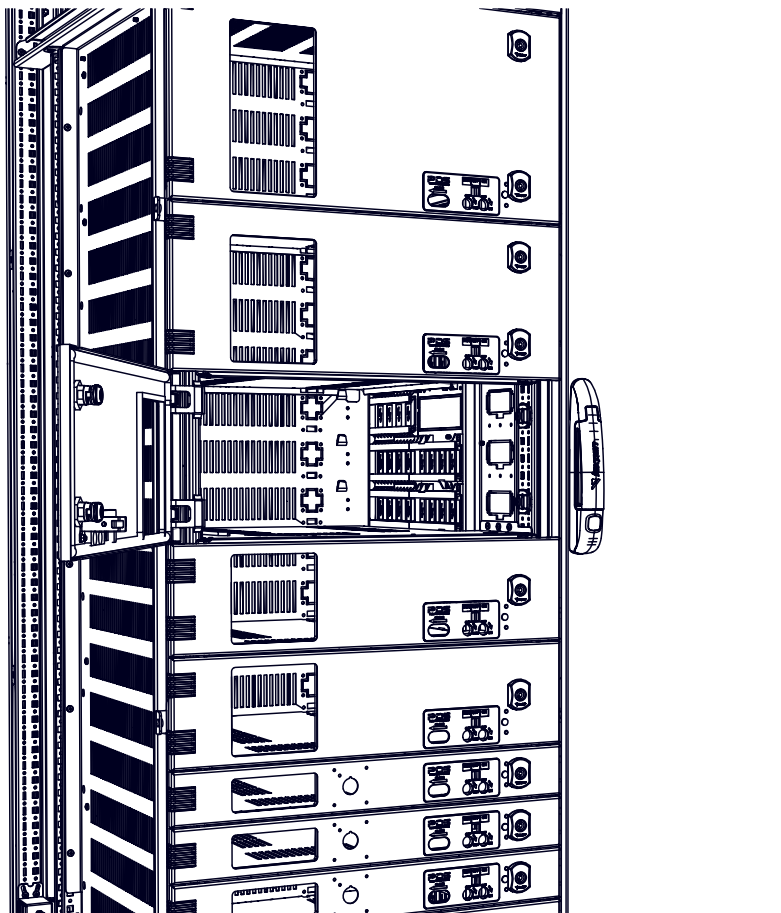
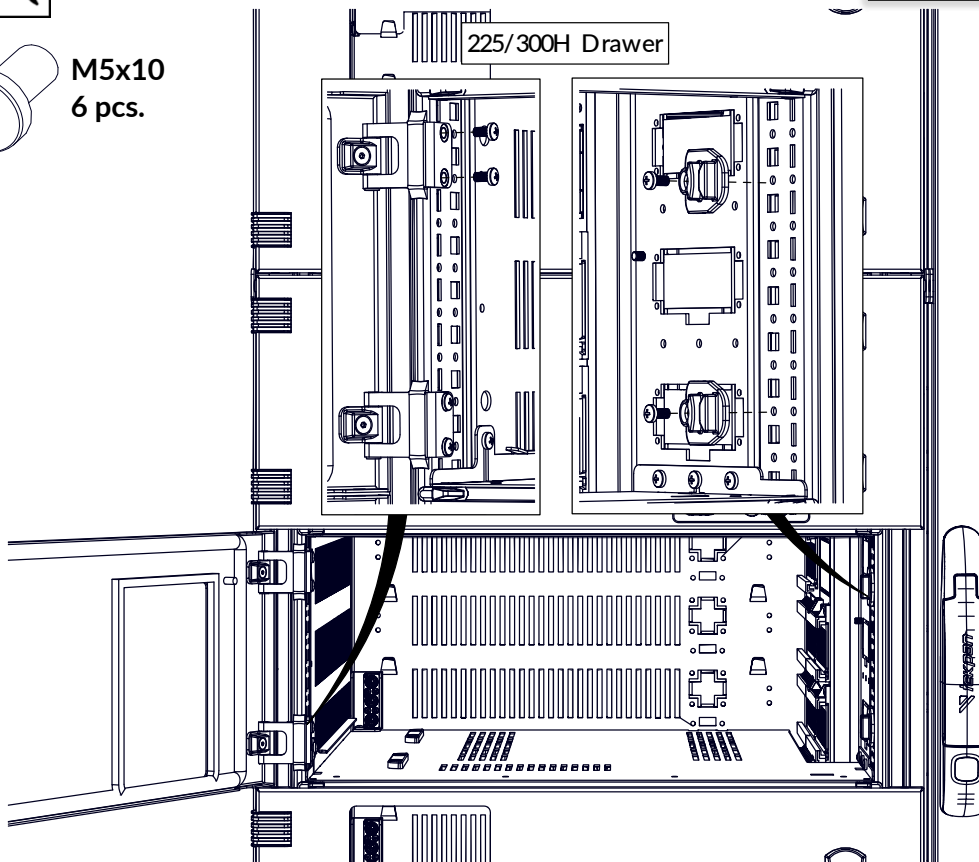


M5x10
5 pcs.

6. FRONT DOOR ASSEMBLY

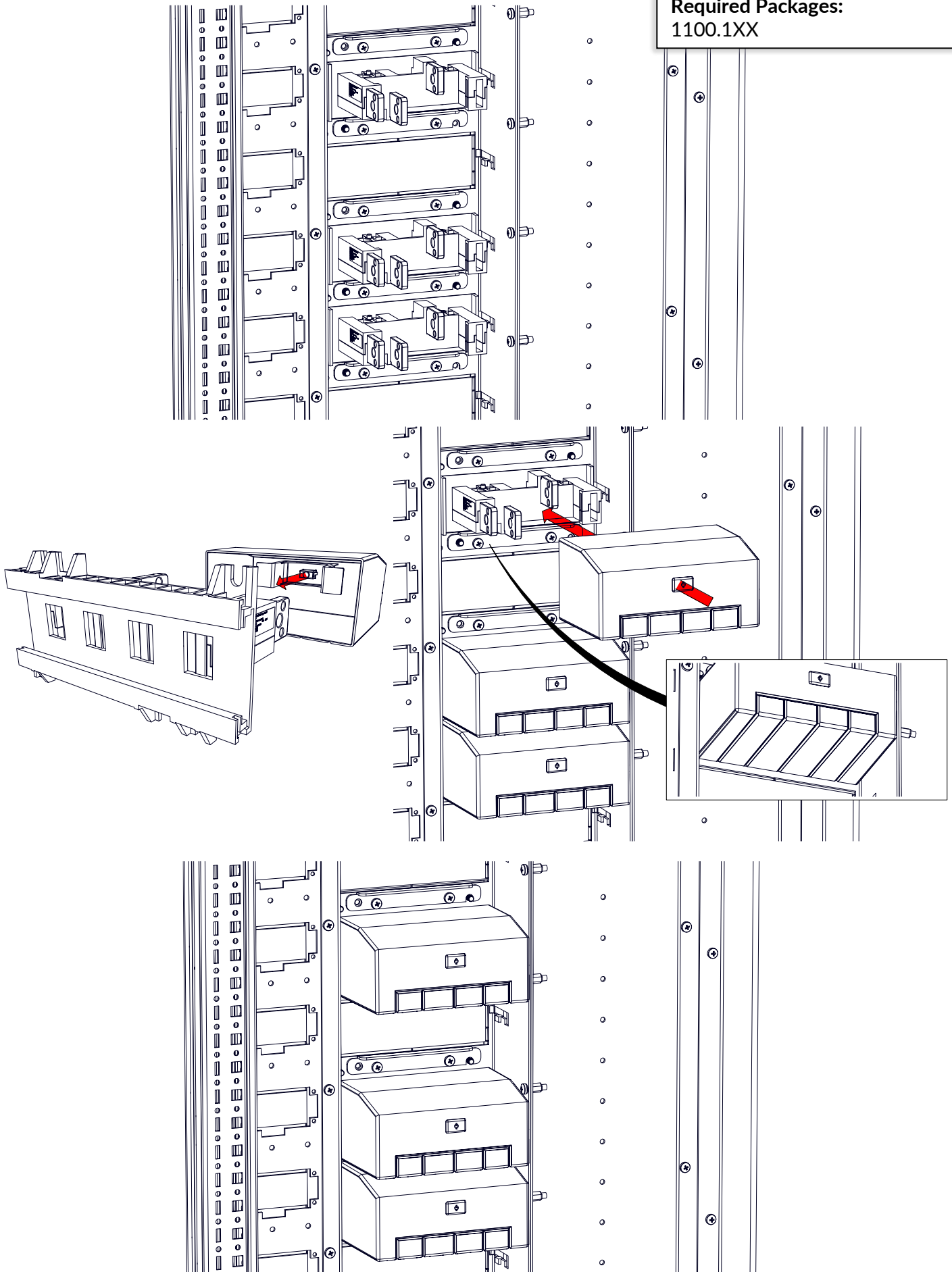
M5x10
6 pcs.

Required Packages:
1100.3XX



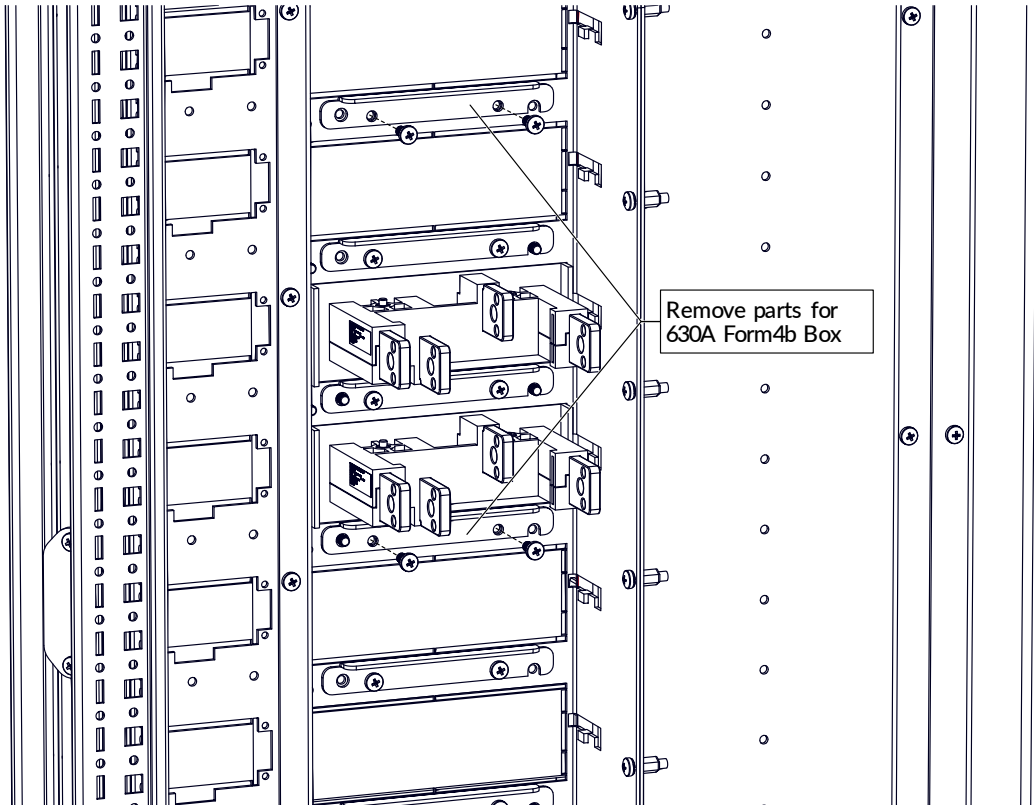
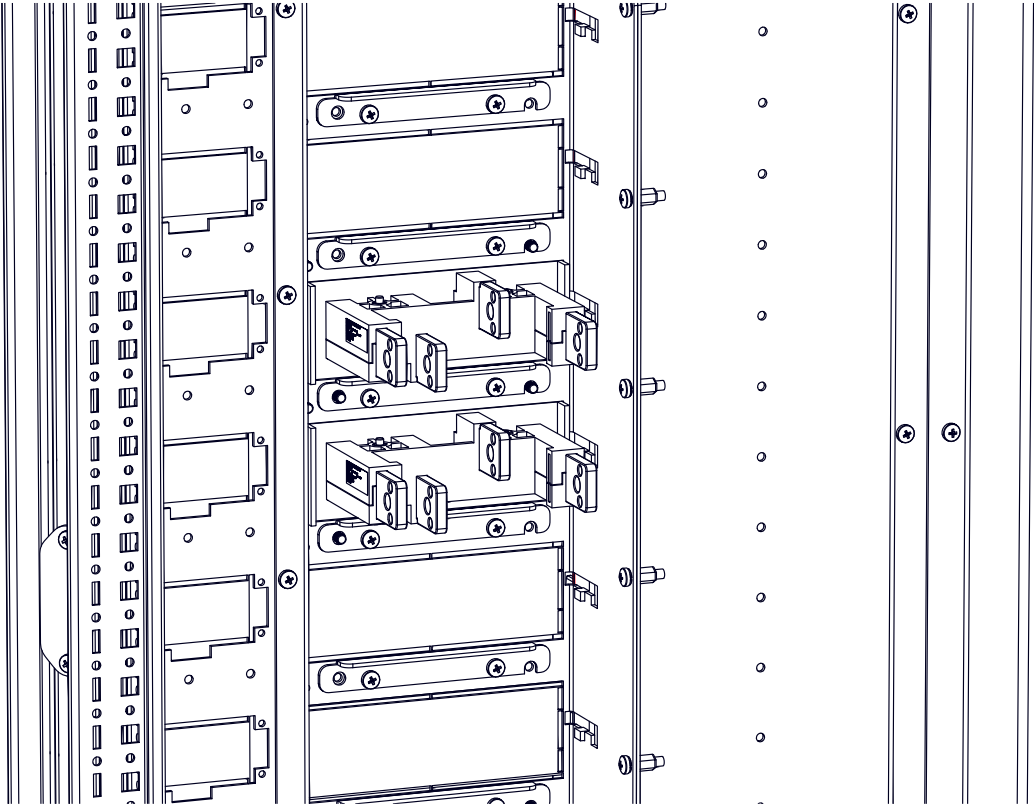
7. FORM 4B BOX ASSEMBLY**7.1 FORM 4B BOX ASSEMBLY (SINGLE-125A/315A)**

Required Packages:
1100.1XX



7.2 FORM 4B BOX ASSEMBLY (630A)

Required Packages:
1100.450



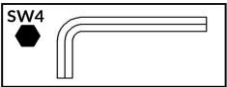
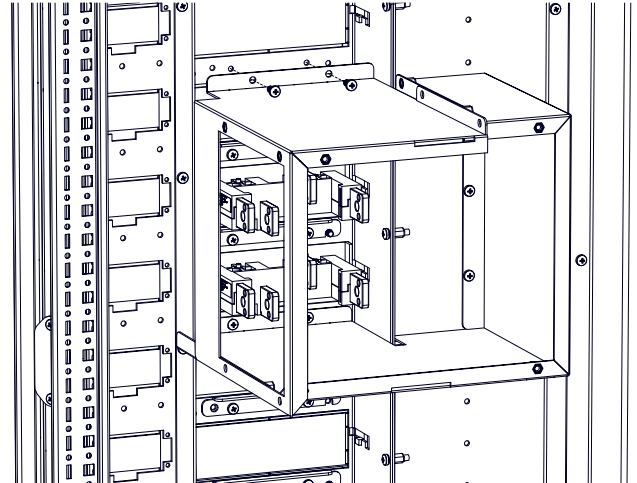
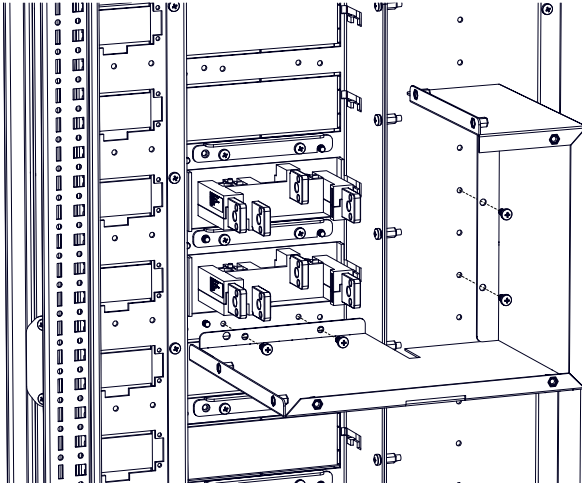
7.2 FORM 4B BOX ASSEMBLY (630A)



Required Packages:
1100.450



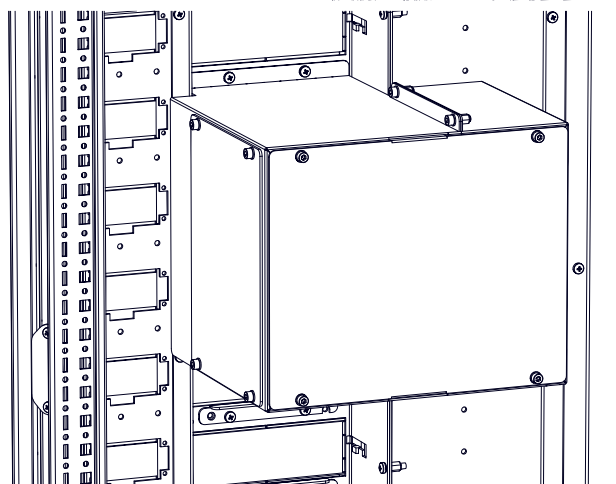
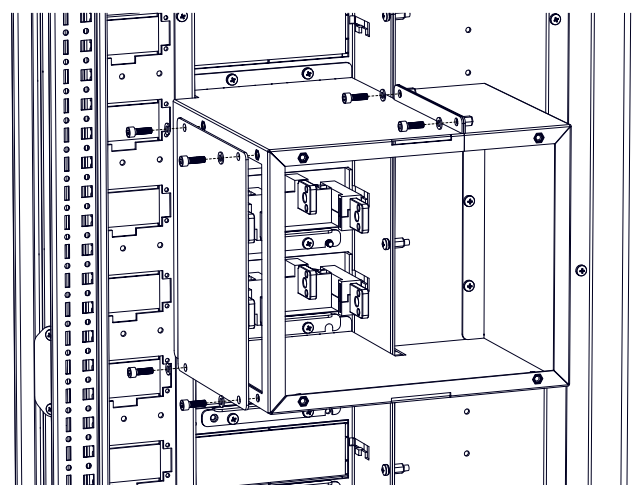
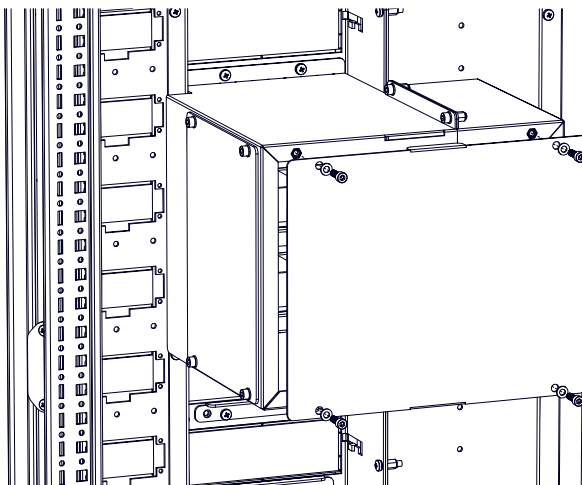
M5x10



M5x16

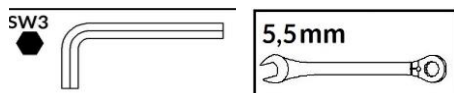


M5

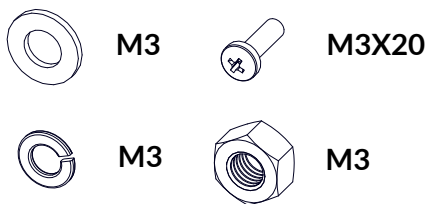


8. ACCESSORIES

8.1 CODE SET



Required Packages:
1100.460

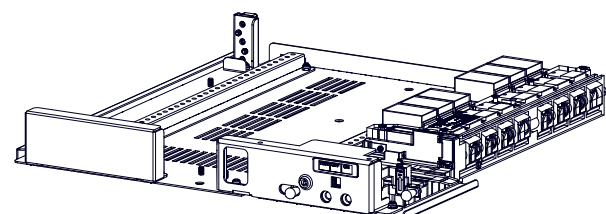
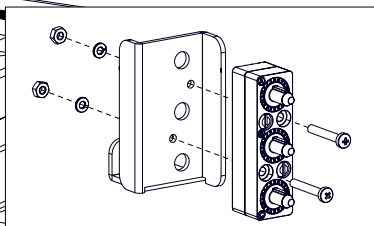
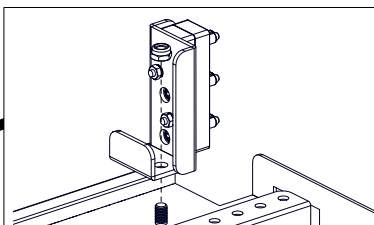
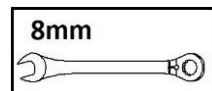
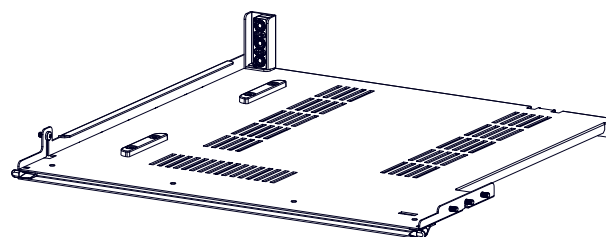
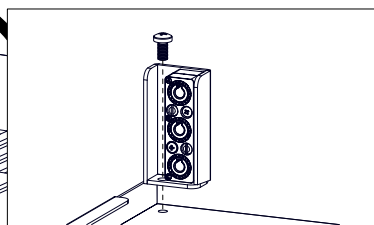
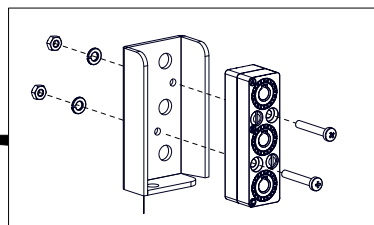


5 Allen Key for setting code set

Pull and turn parts for setting male code set

Each code numbers must be paired for correct assembly.

1000 Different Code Settings



8.2 EASY LOCK

Required Packages:

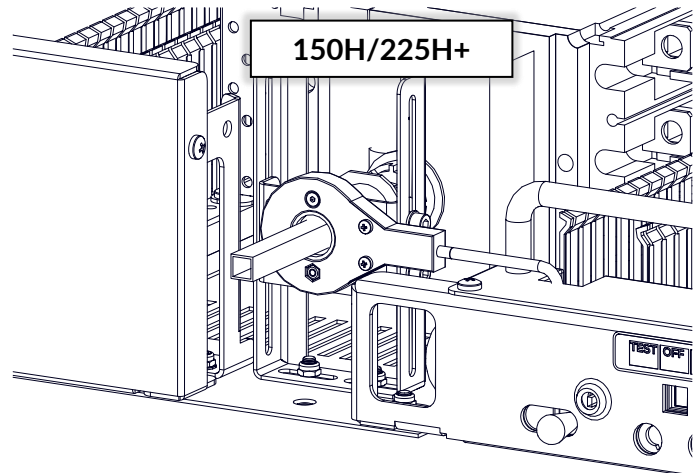
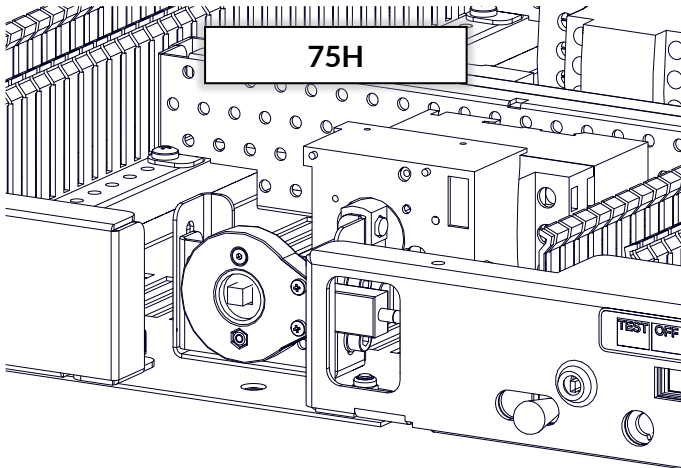
Easy Lock:1100.48X

Easy Lock Holder:1100.49X

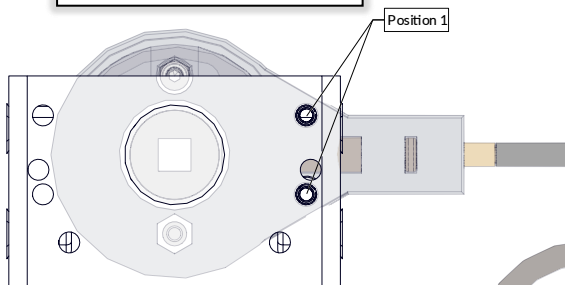
Easy Lock (Shaft Size 5/6/8/10/12)

Easy Lock Holder (150H/225H+)

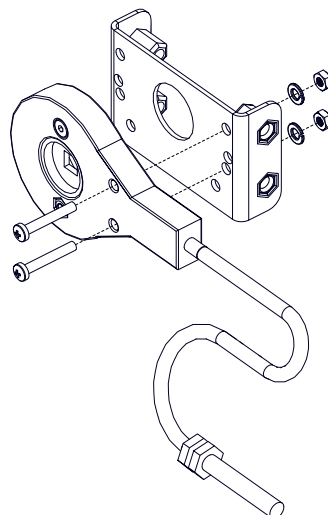
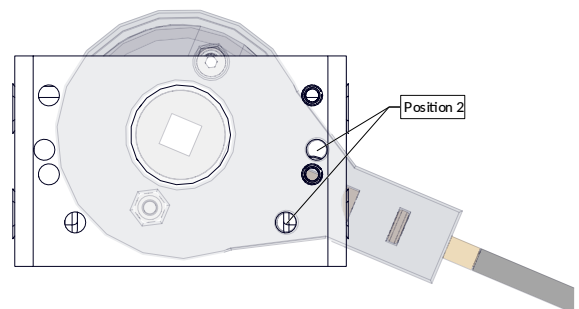
Easy Lock Holder (75H)



Position 1 (Std.)



Position 2 (Alternative)



5,5mm

M3x20

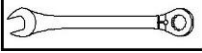
M3

M3

M3

8.2 EASY LOCK

8mm

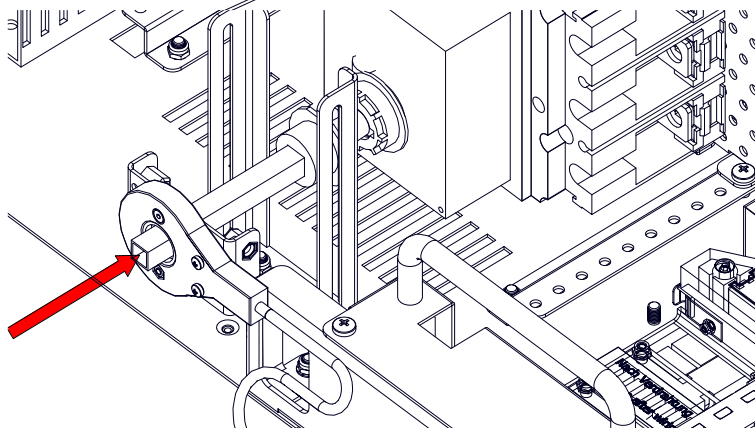
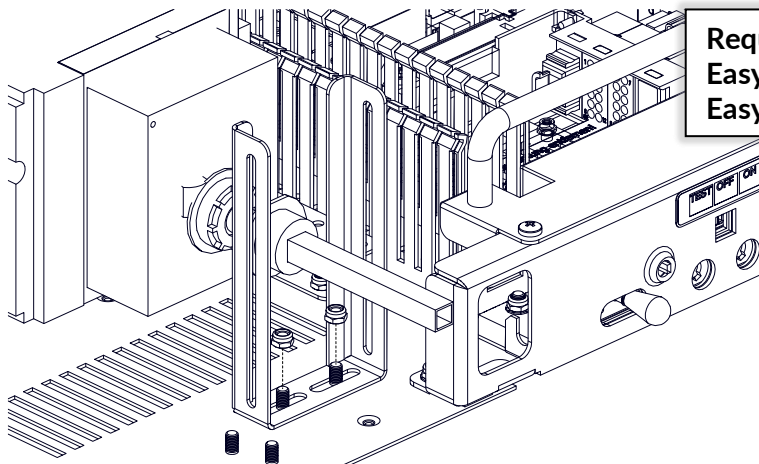


M5

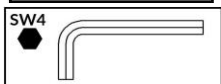
Required Packages:

Easy Lock:1100.48X

Easy Lock Holder:1100.49X



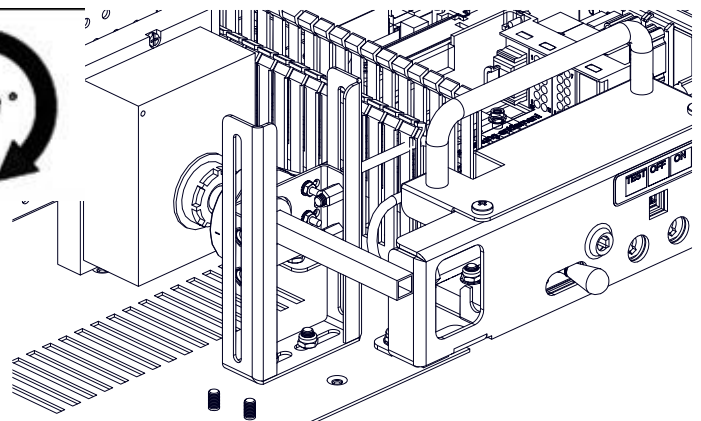
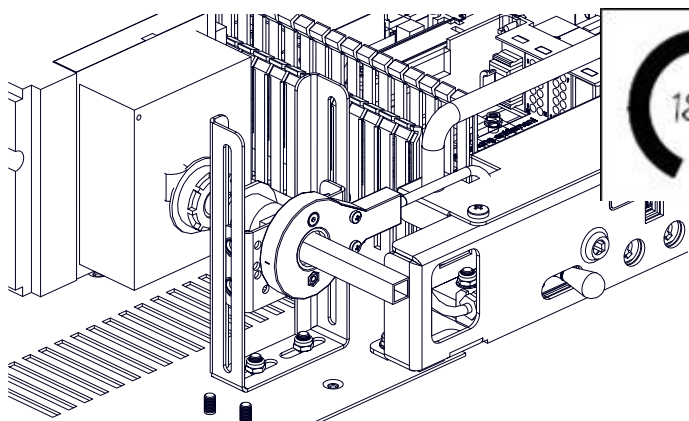
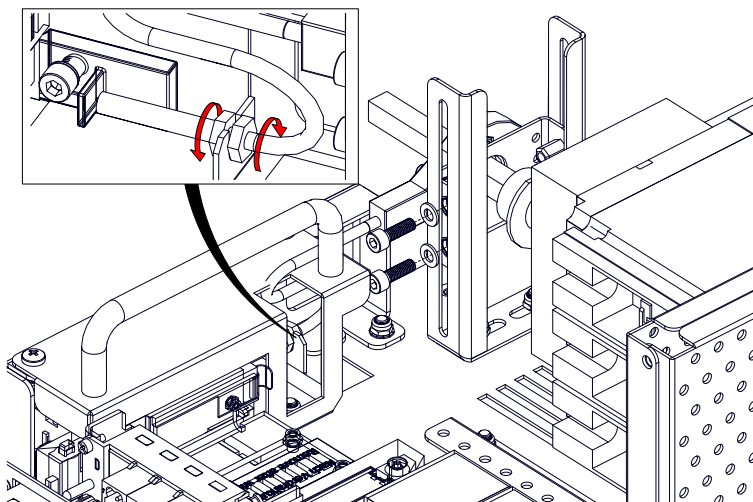
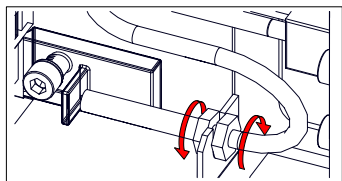
8mm



M5x16



M5



8.3 MODULAR SOCKET

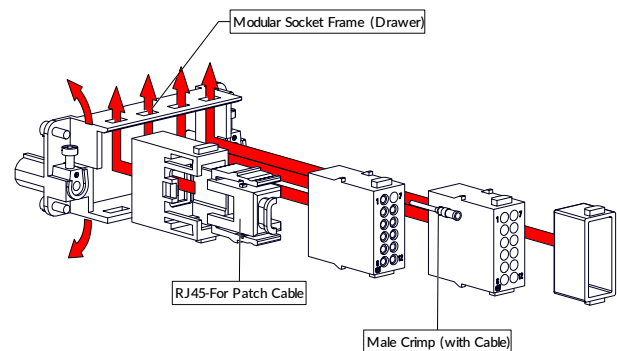
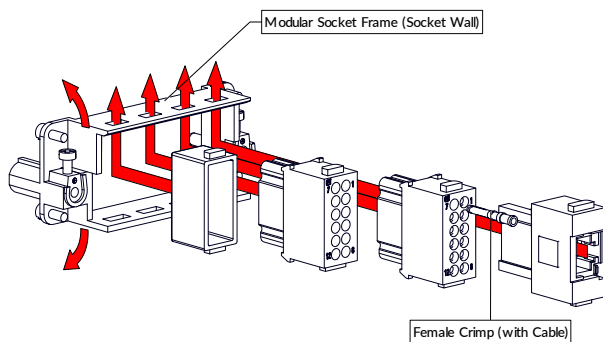
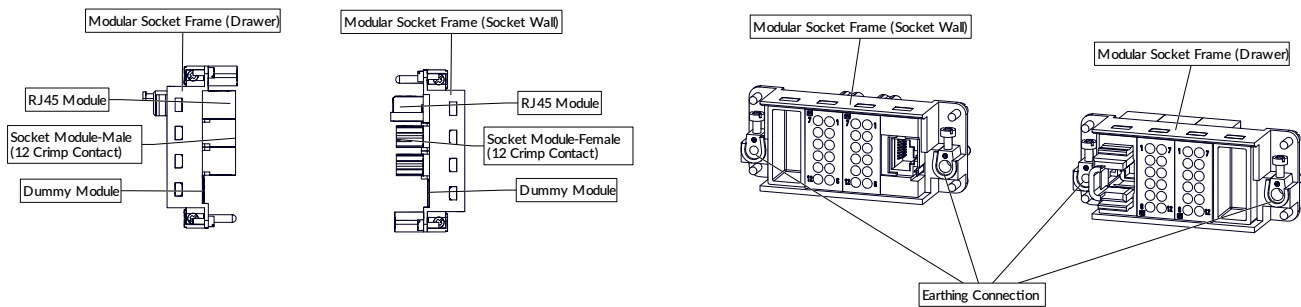
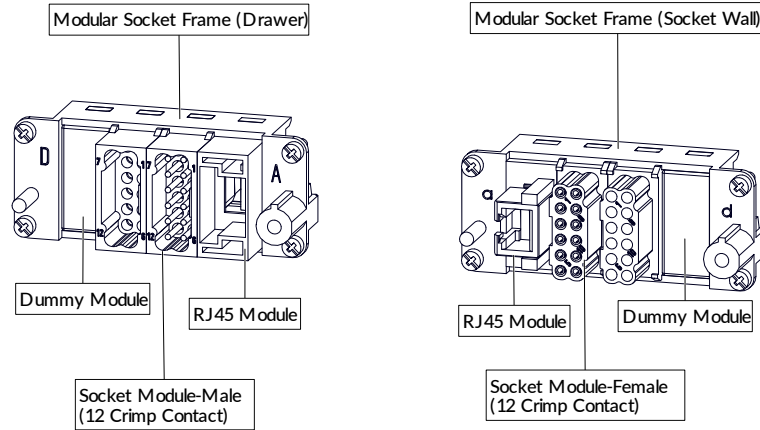
Required Packages:

Frame:1100.461

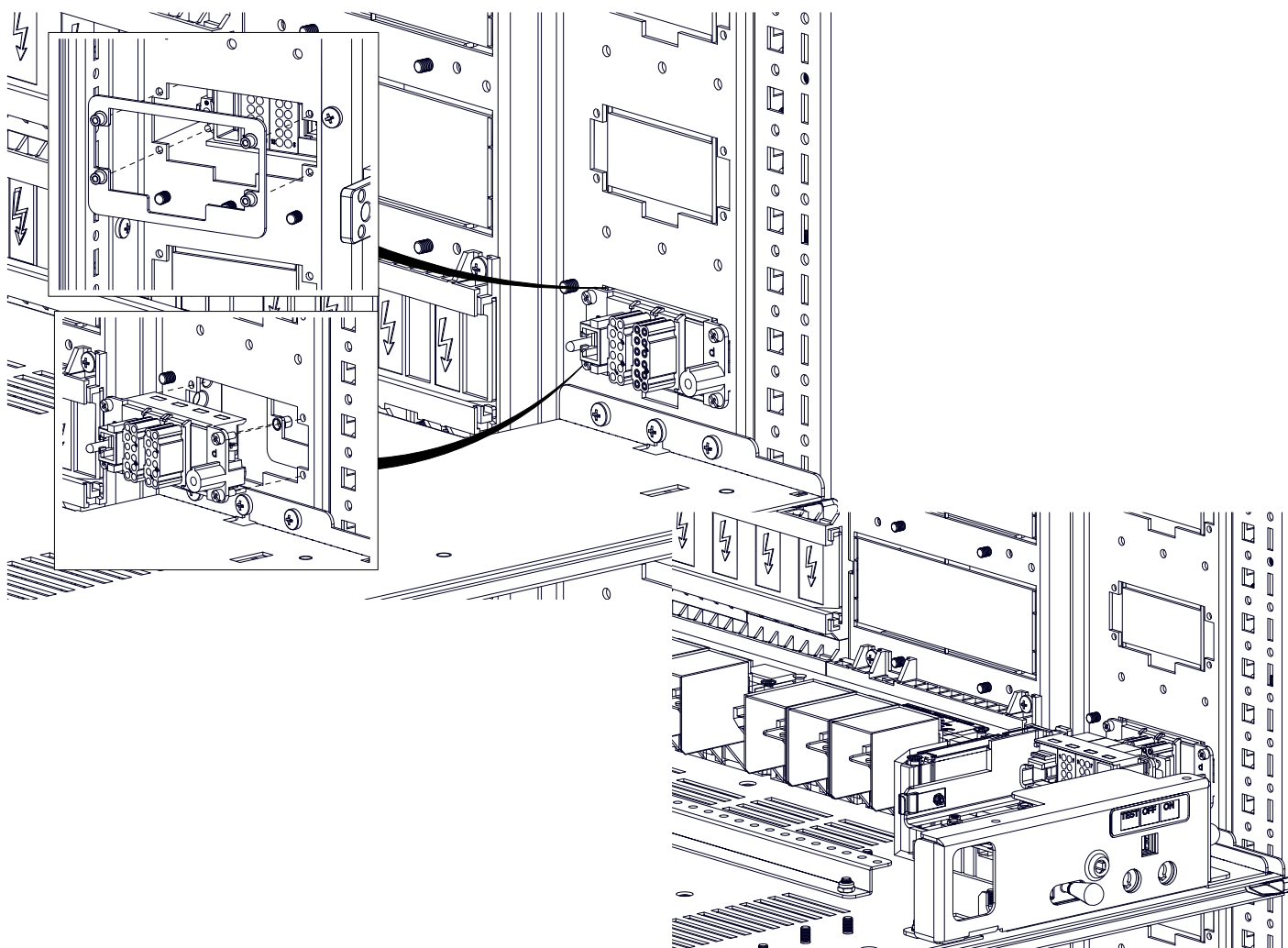
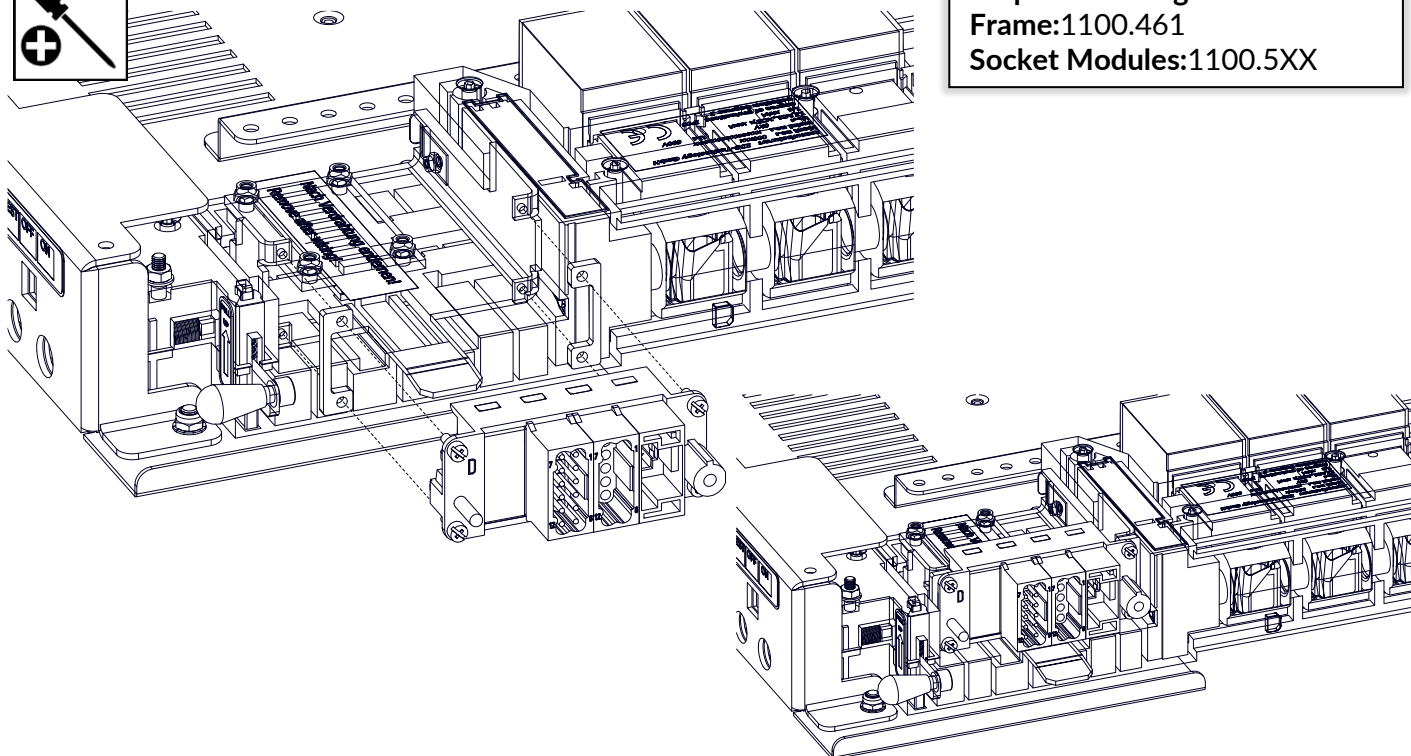
Socket Modules:1100.5XX



Module placements are for information. Module design can be changed with project details.



■ 8.3 MODULAR SOCKET

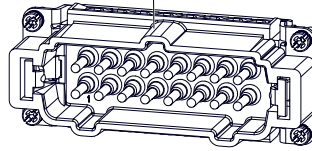


■ 8.4 TERMINAL SOCKET

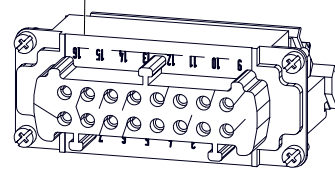
Required Packages:
1100.520



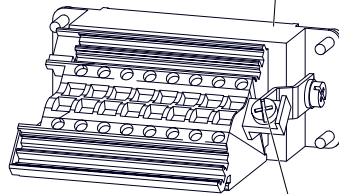
Terminal Socket (Drawer)



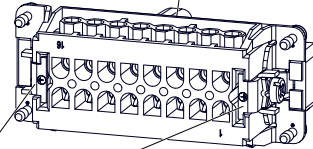
Terminal Socket (Socket Wall)



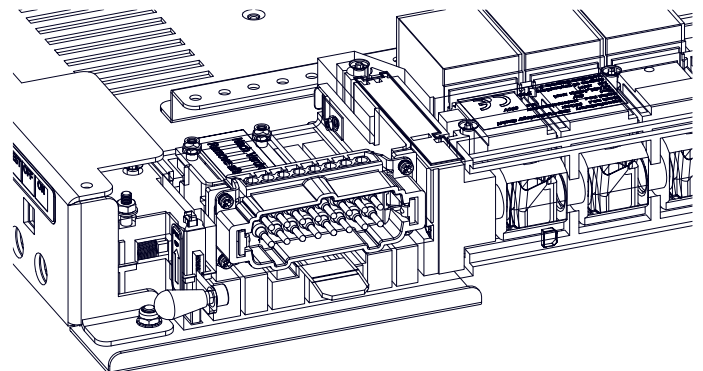
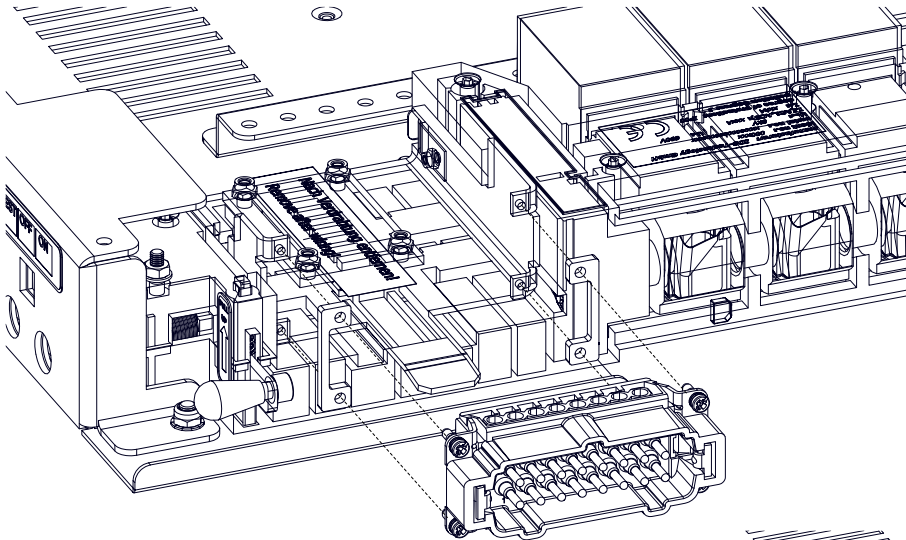
Terminal Socket (Socket Wall)



Terminal Socket (Drawer)



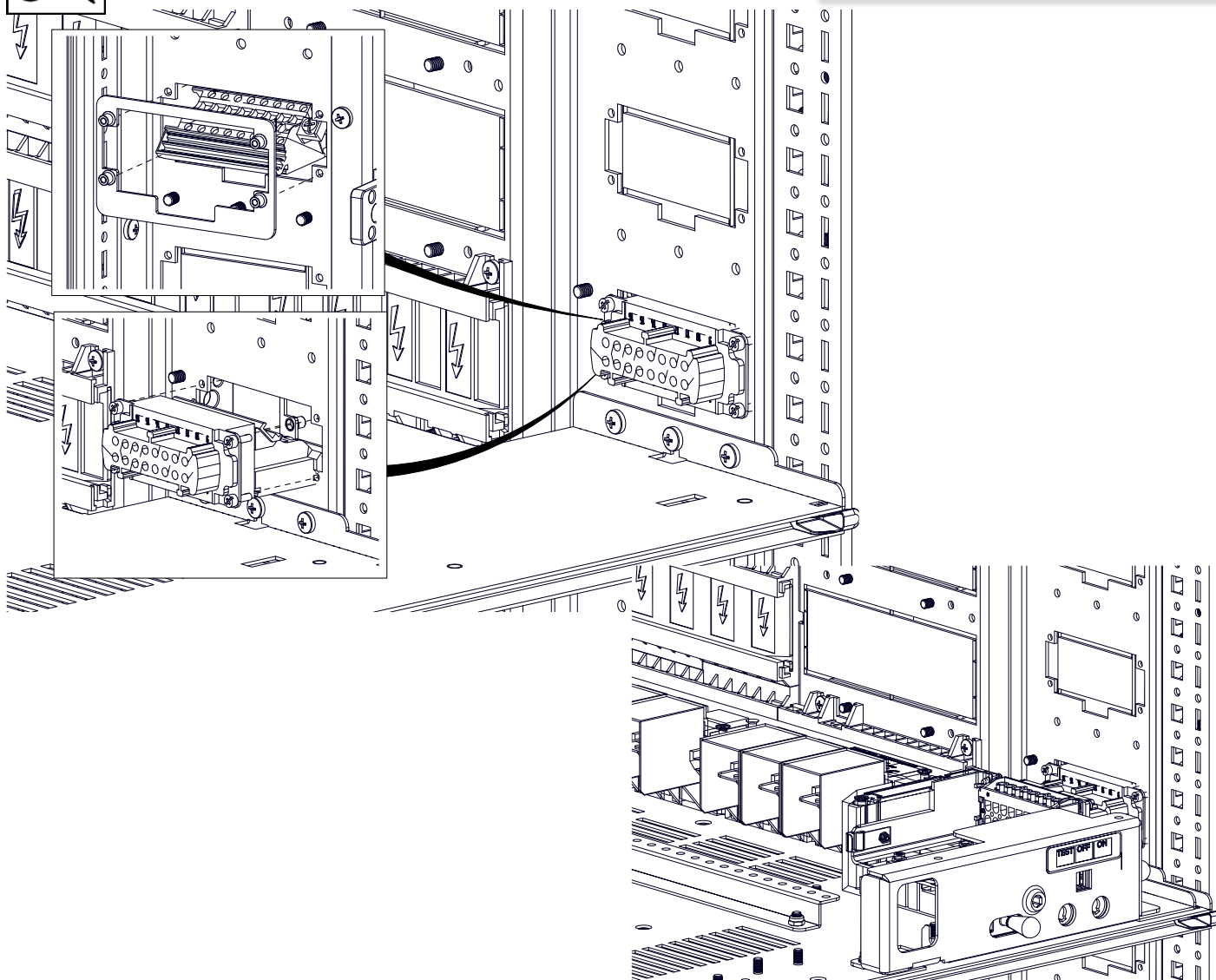
Earthing Connection



■ 8.4 TERMINAL SOCKET



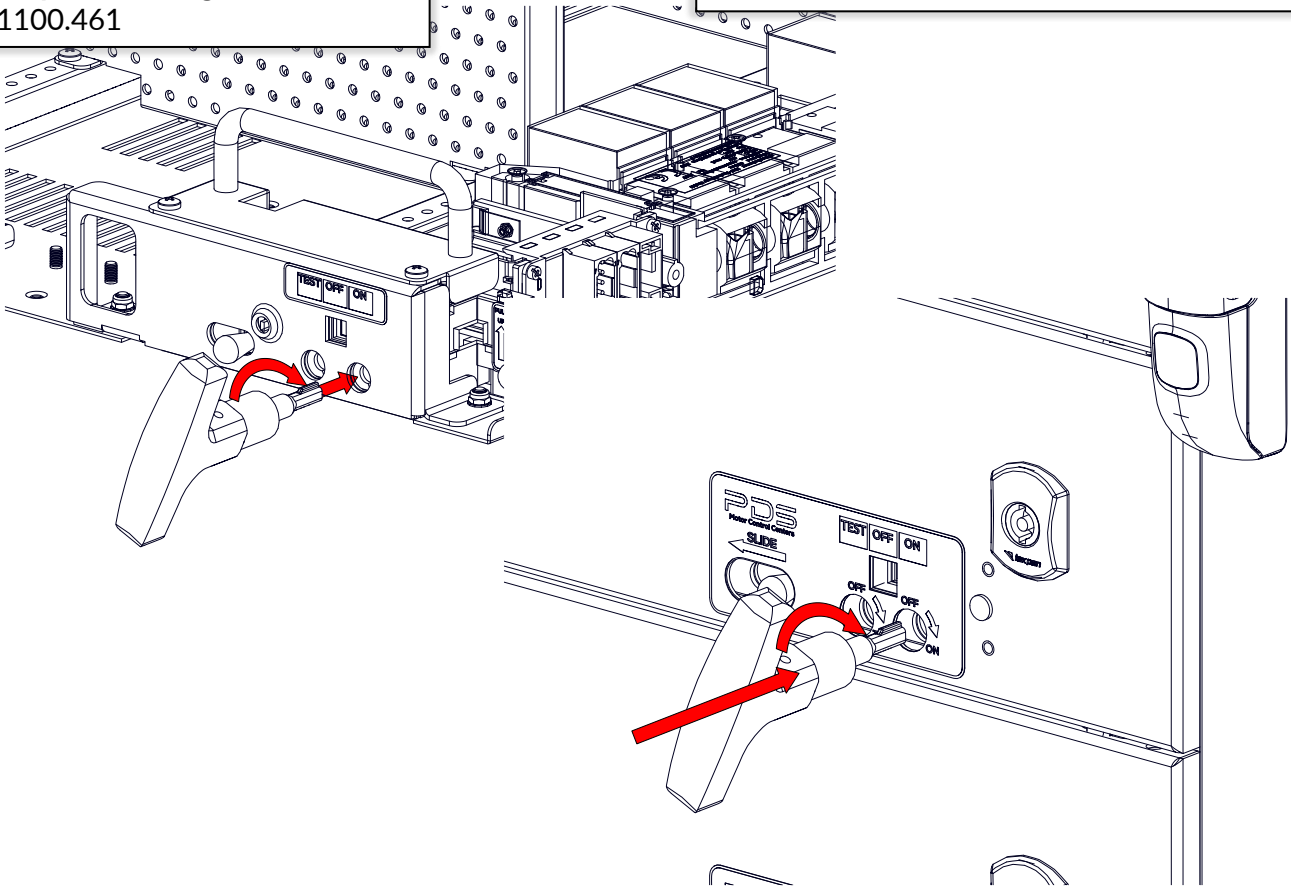
Required Packages:
1100.520



8.5 OPERATING HANDLES

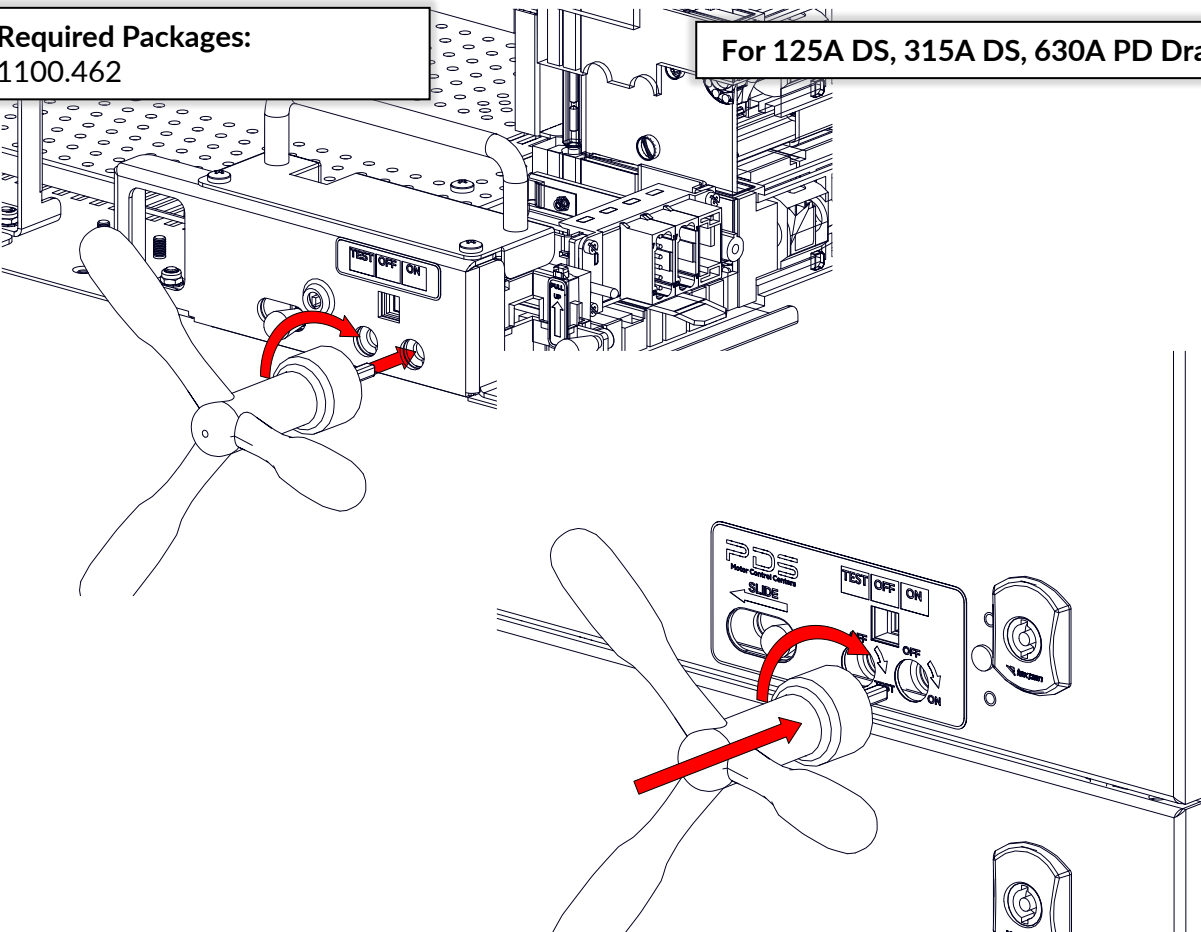
Required Packages:
1100.461

For 125A/315A DOL/RDOL, PD Drawers



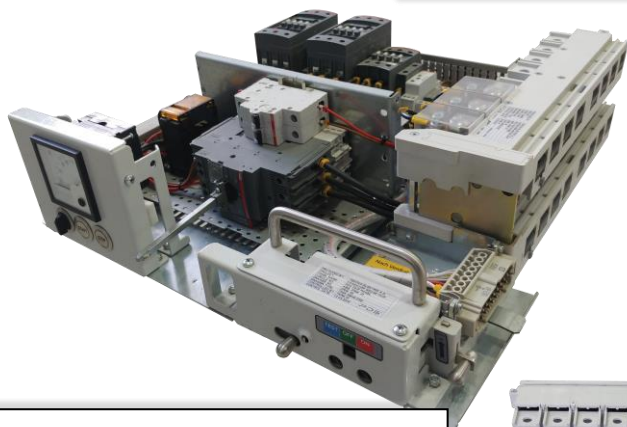
Required Packages:
1100.462

For 125A DS, 315A DS, 630A PD Drawers

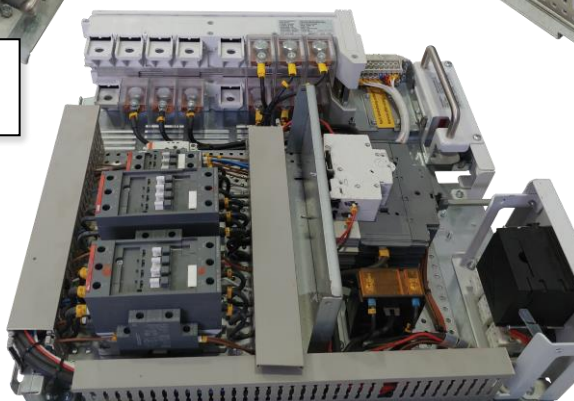


9. SAMPLE ASSEMBLIES

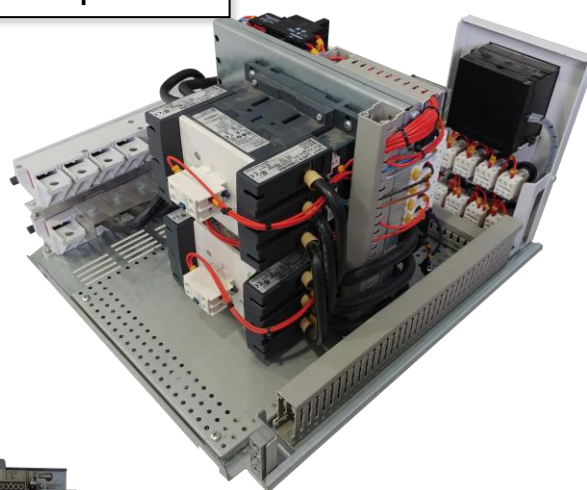
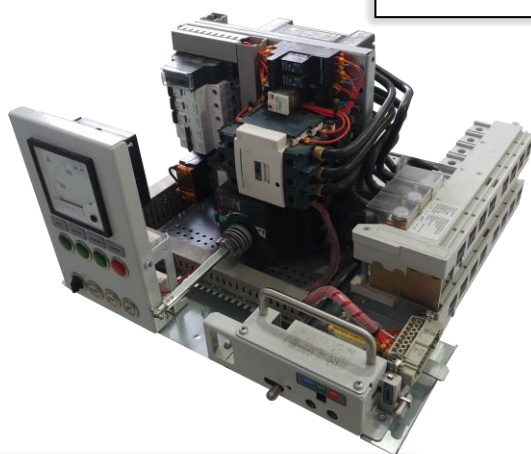
ABB DSD 150H Sample



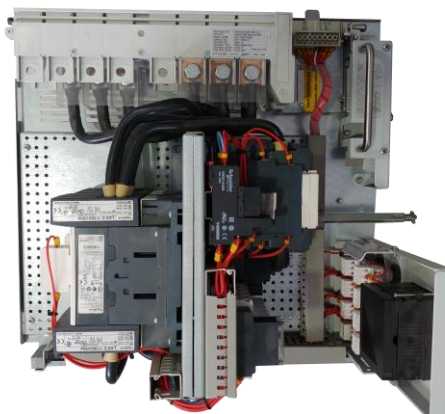
30kW DSD
DS 125A Module

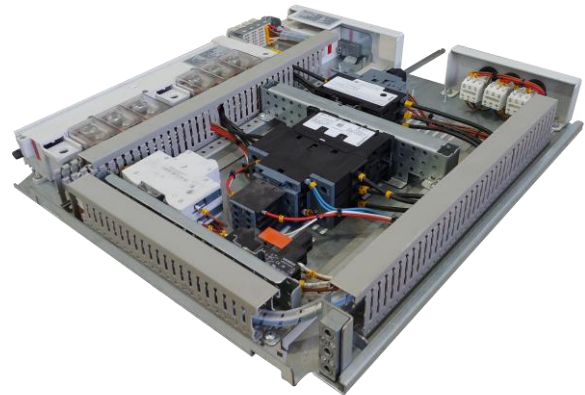
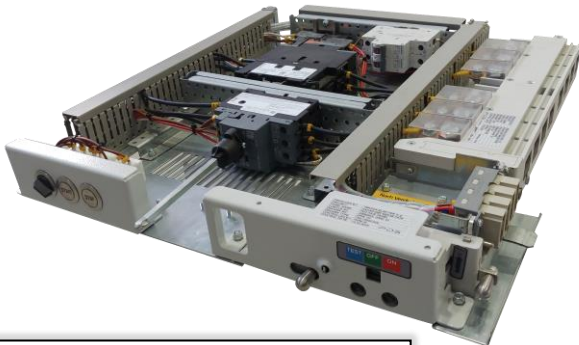
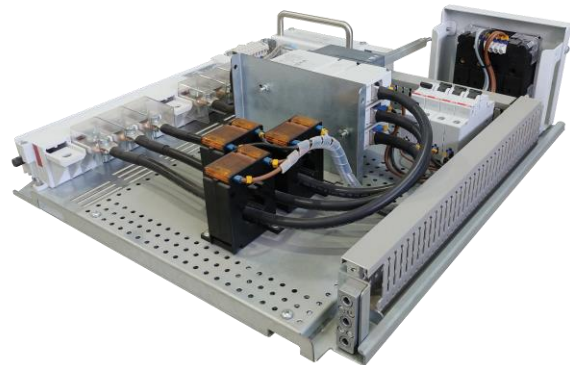
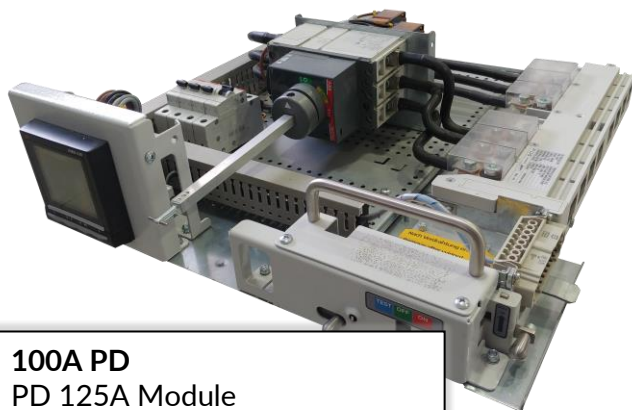
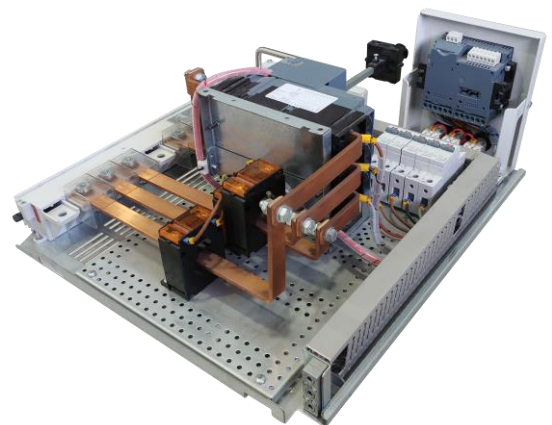
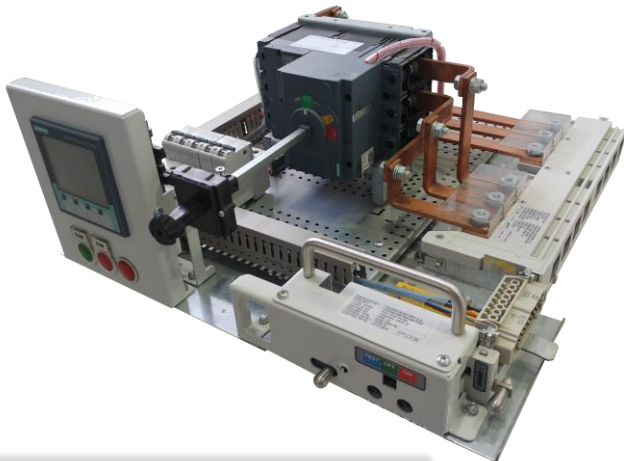


Schneider DSD 225H Sample



90kW DSD
DS 315A Module



9. SAMPLE ASSEMBLIES**SIEMENS DOL 75H Sample****15kW DOL
DOL 125A Module****100A PD
PD 125A Module****SIEMENS PD 225H Sample****250A PD
PD 315A Module**

