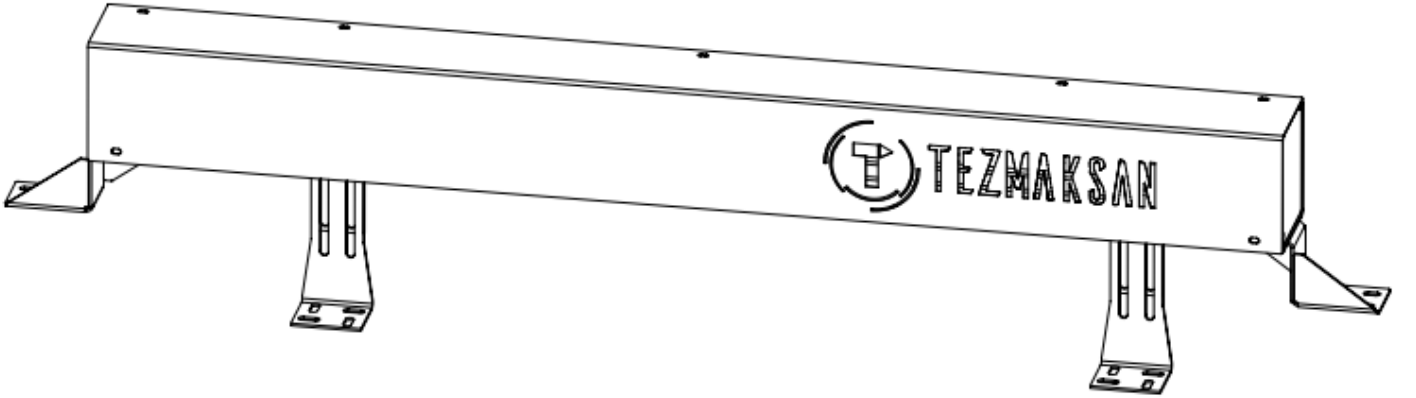
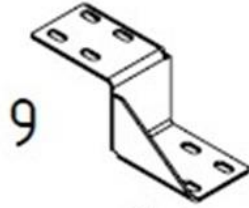
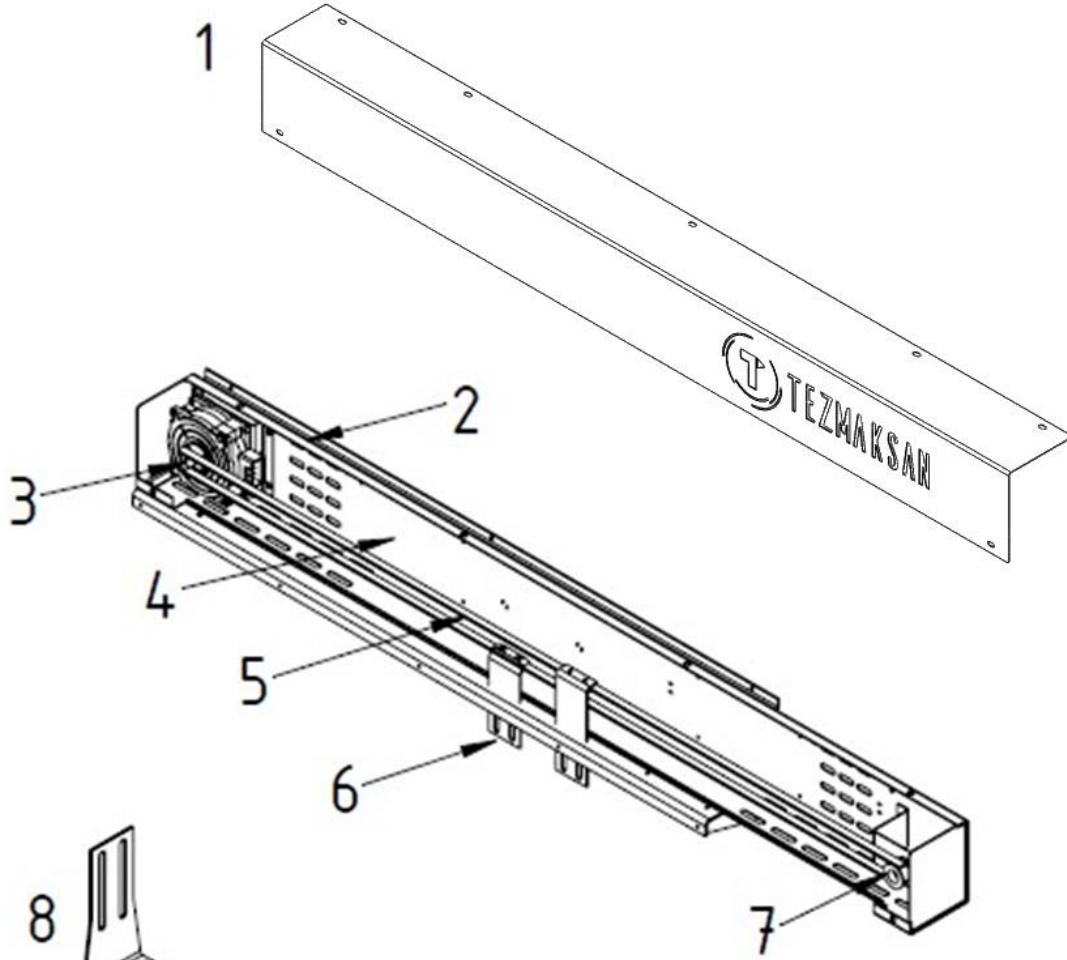


CNC ServoDoor USER MANUAL



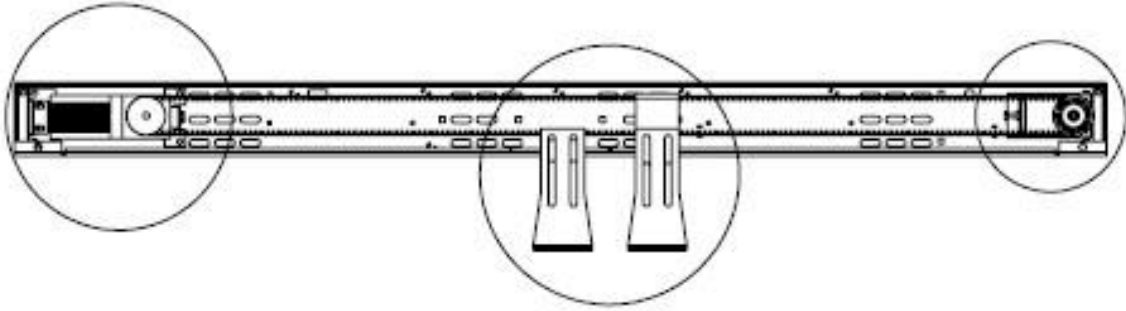
LIST OF MATERIALS



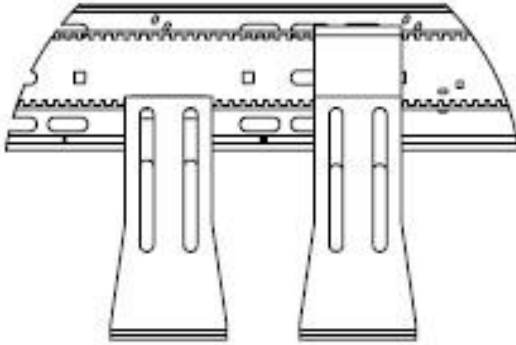
NO	NAME
1	Top cover
2	Bottom cover
3	Motor
4	Driver
5	Belt
6	Belt bracket
7	Tension mechanism
8	Door bracket
9	Z bracket
10	L bracket
11	M8 bolt
12	M8 nut



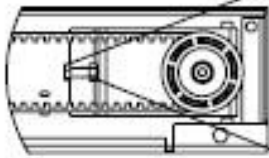
ASSEMBLY



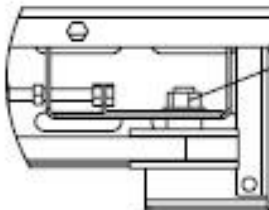
You have two belt brackets. Short one will be in left side and long one will be in right side as shown in figure

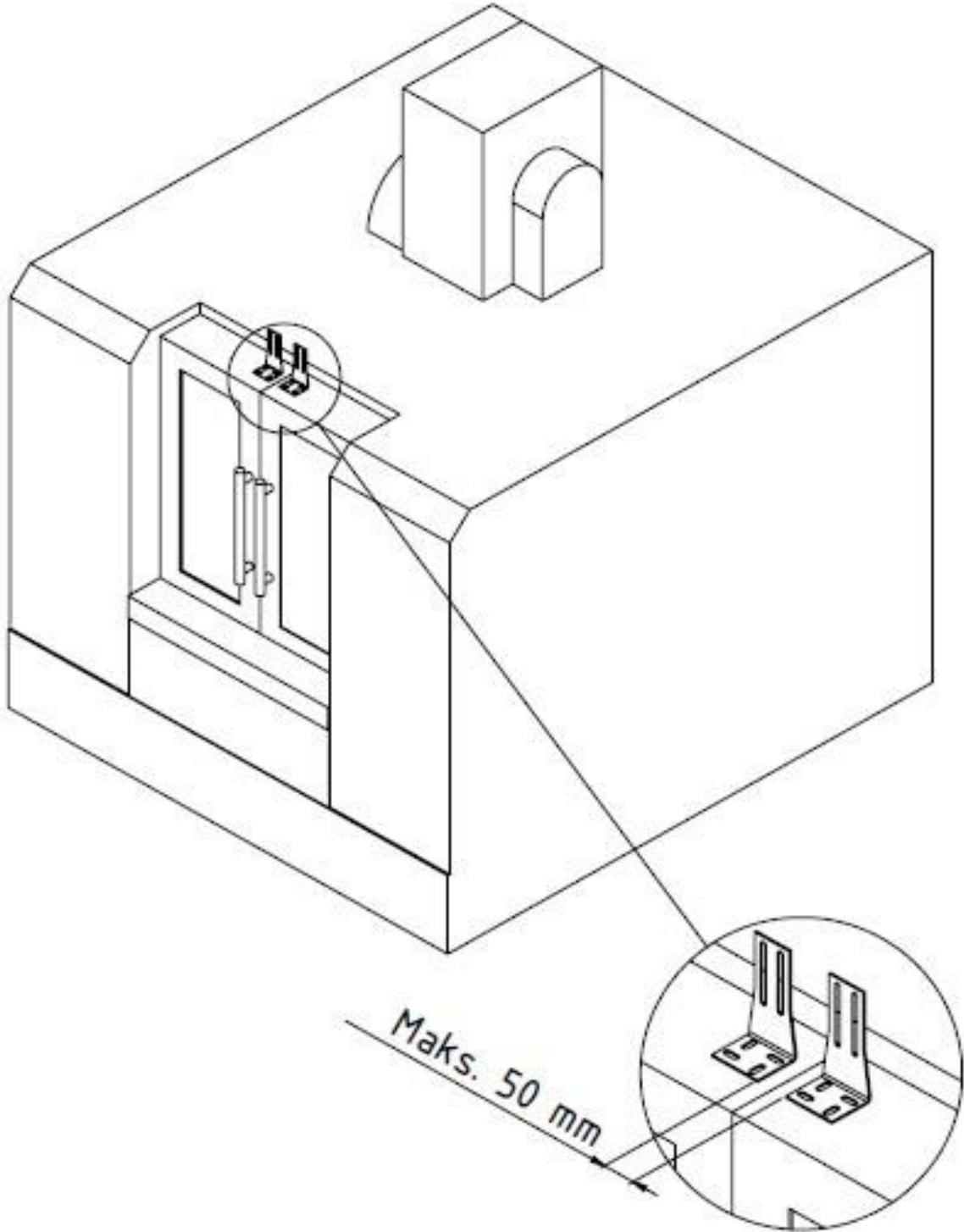


Bolt the belt tension. Adjust by tightening and loosening.

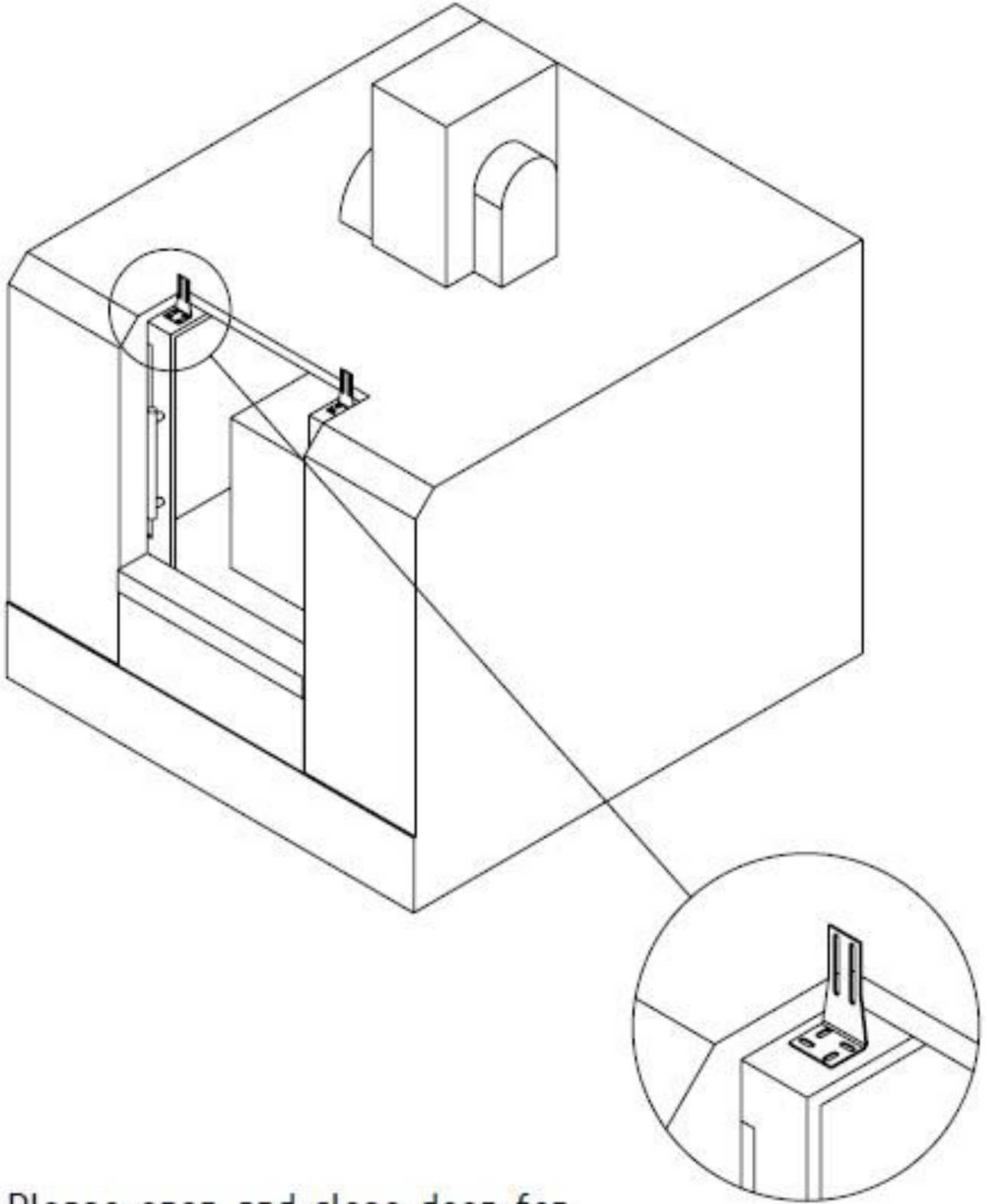


Belt tension adjustment counter after tighten the nuts.

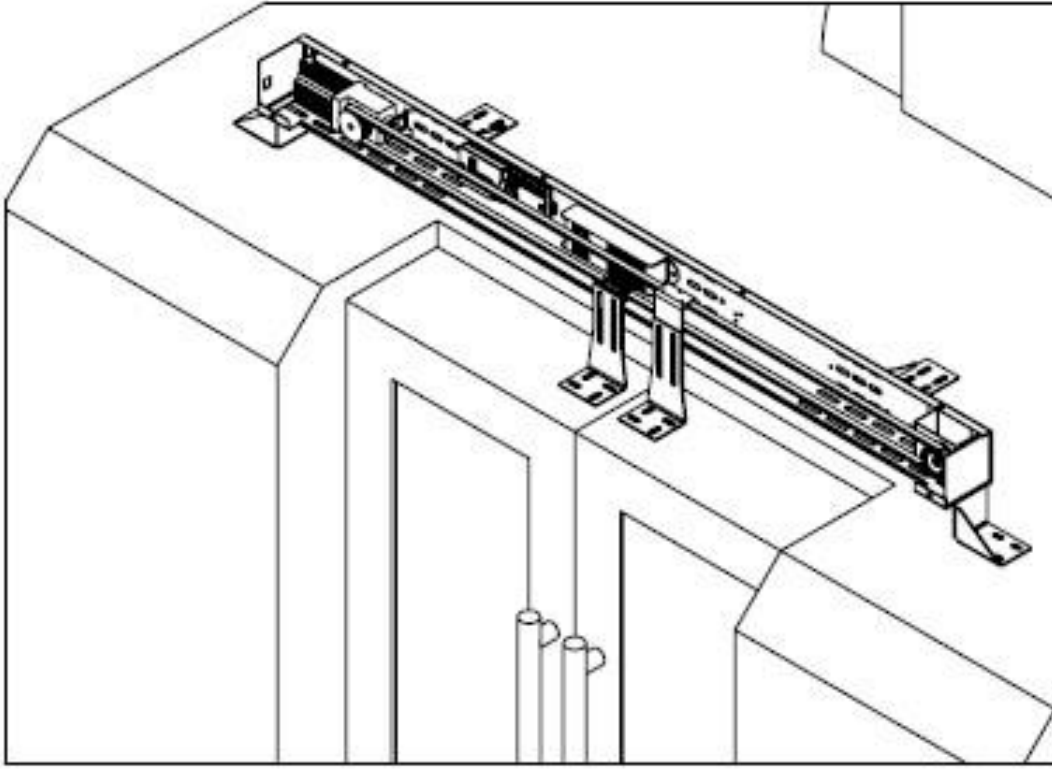




Between Door brackets; must be max.
50mm



Please open and close door for manually. and sure that open clearly



Location of mechanism :

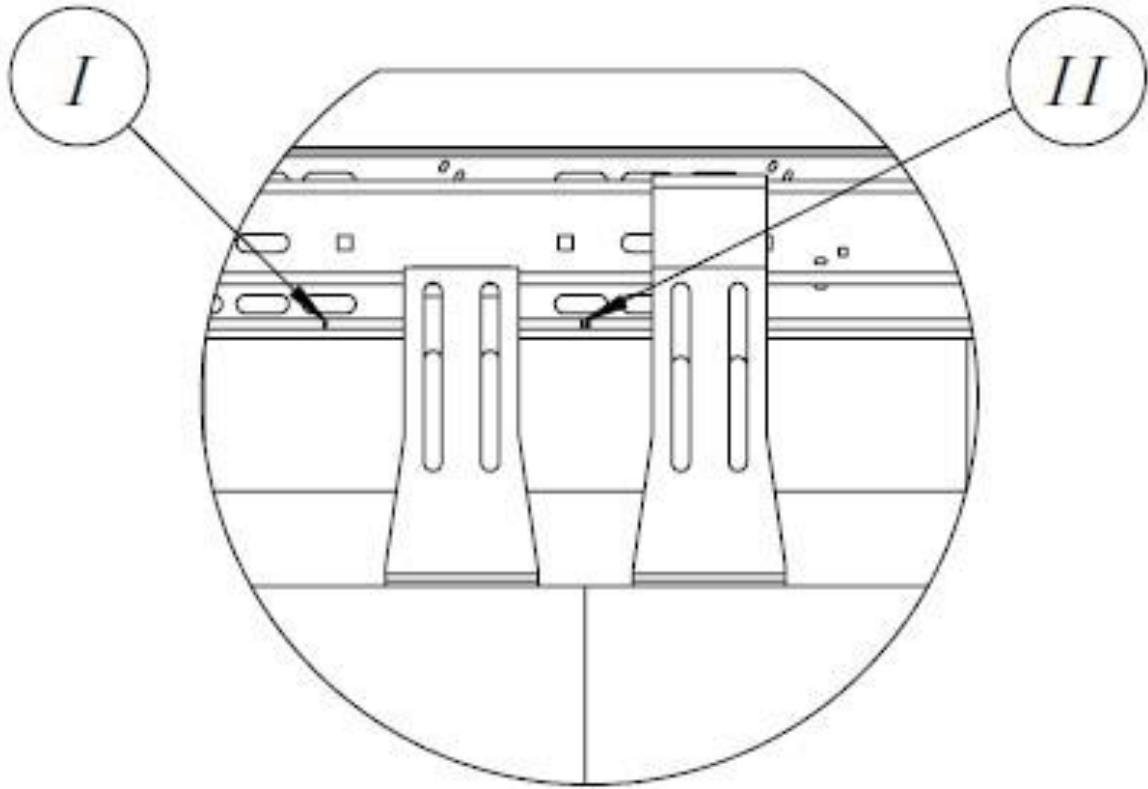
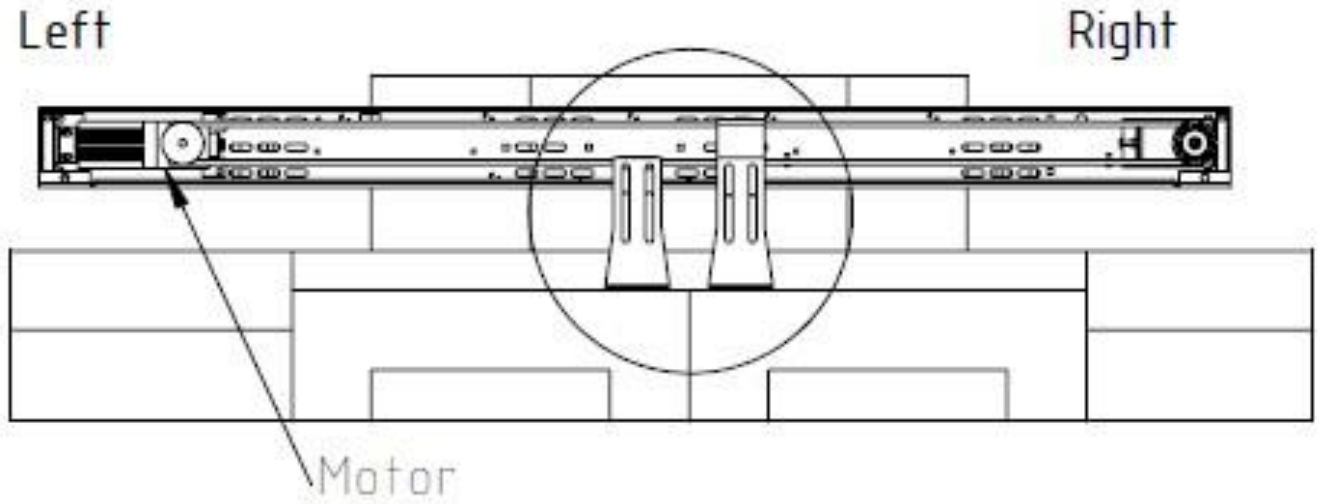
-Make sure the mechanism is in the center of the doors.(please see on page 7)

- Please choose mechanism bracket (Z or L bracket)

-Please check bracket holes position on the CNC body.

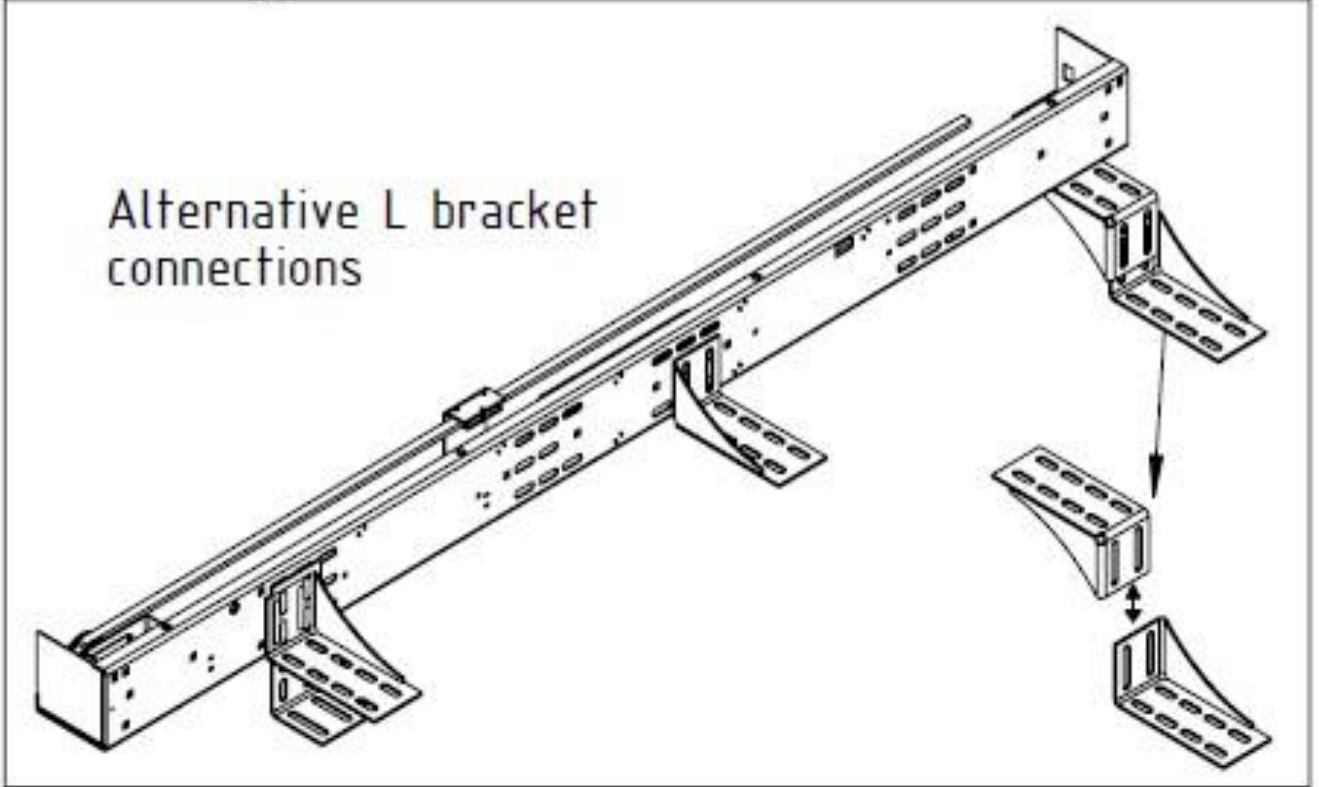
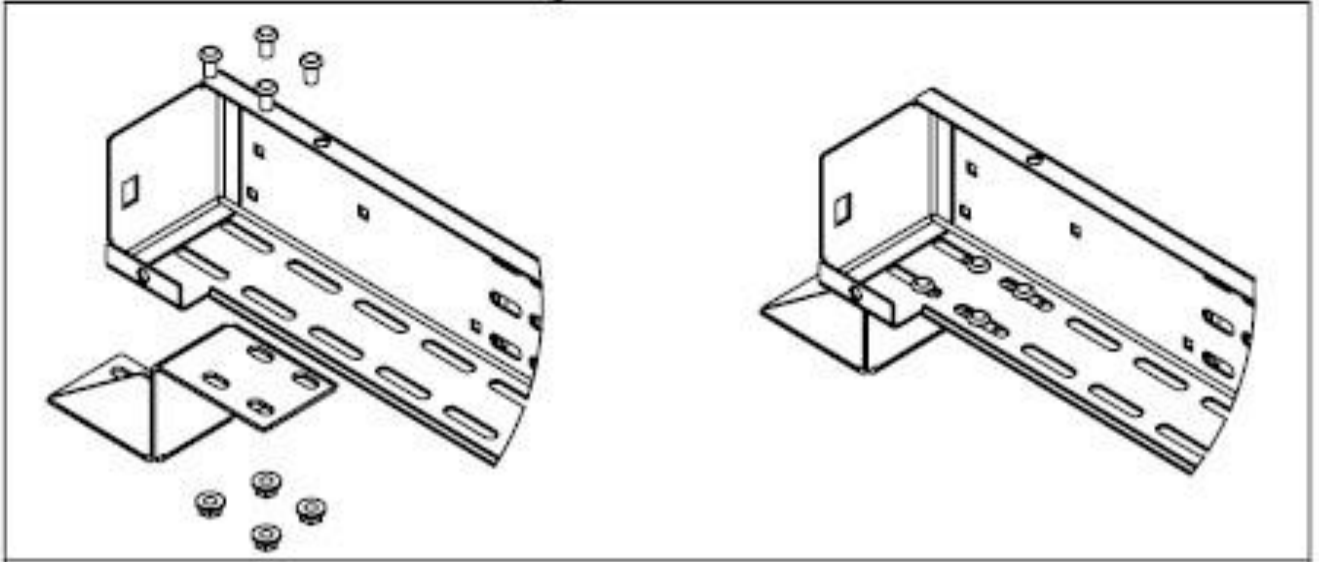
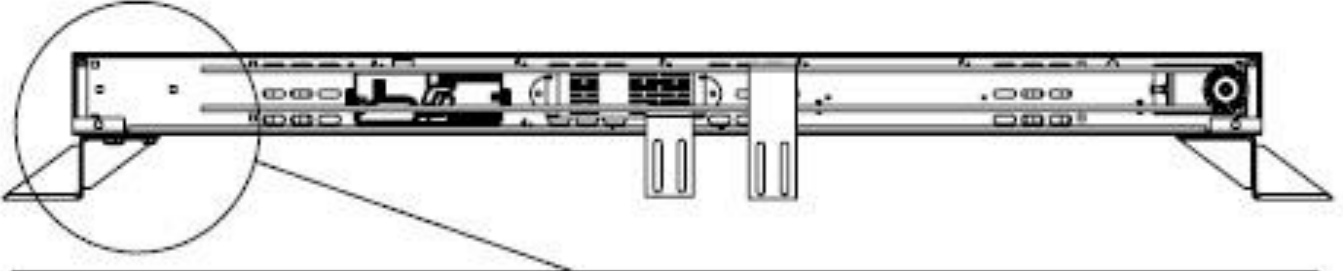
+Pay attention electrical cable and cable channel

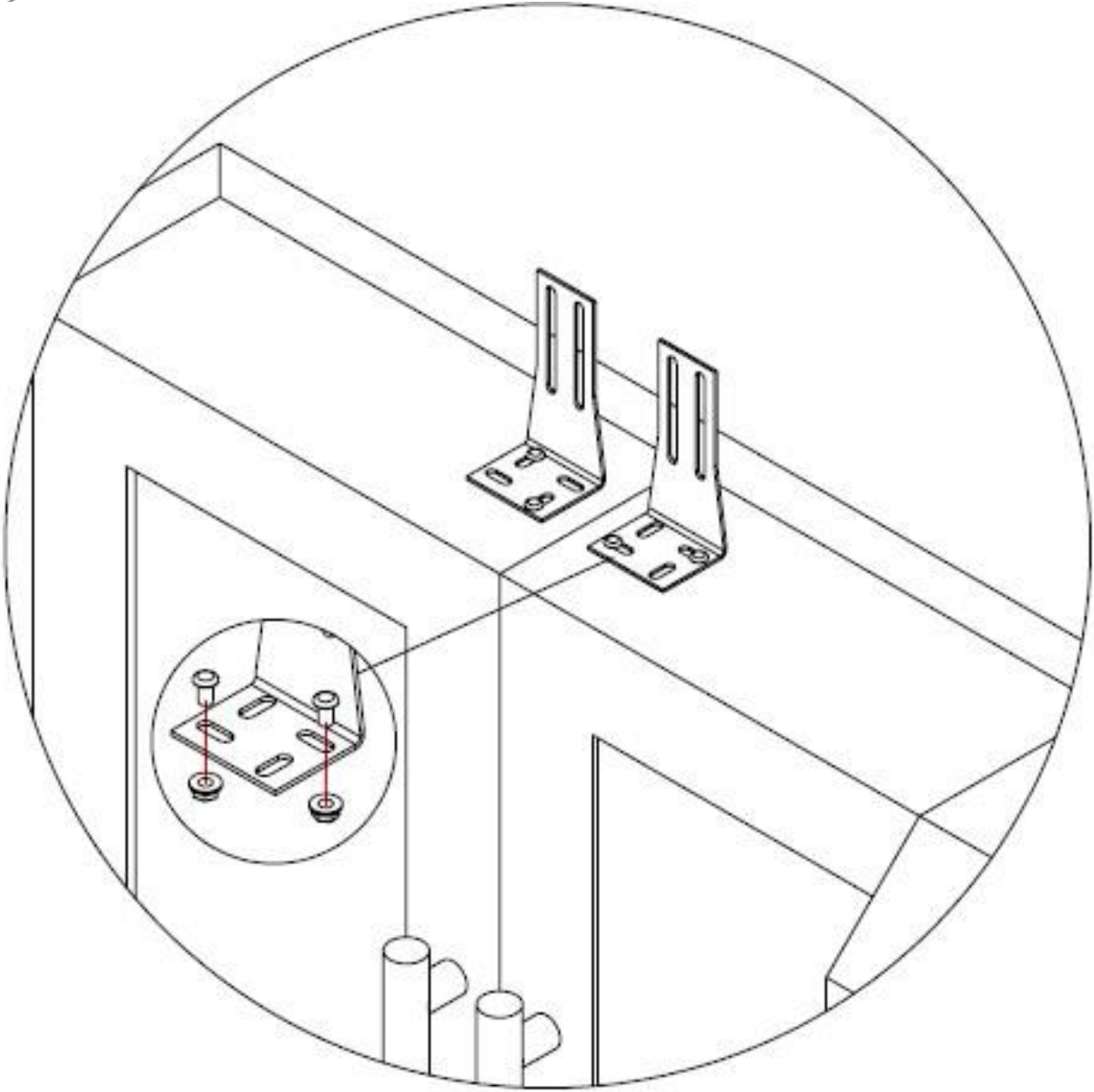
+Drilling location accessible from inside the CNC body make sure it is.



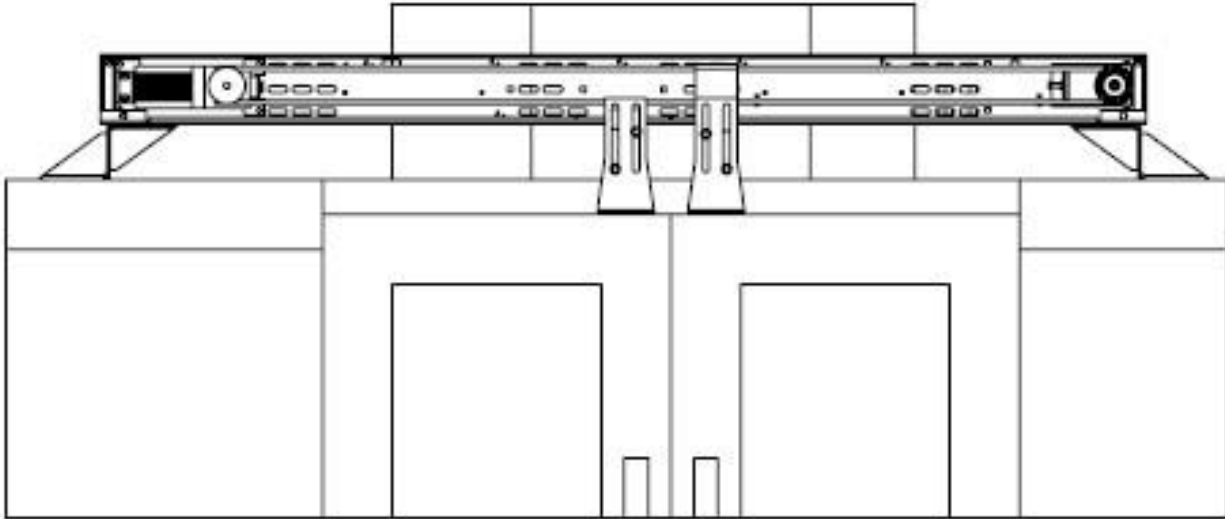
Centering of the mechanism

- If the drive motor is on the left side of the mechanism; Doors must be combine in position "II"
- If the drive motor is on the right side of the mechanism; Doors must be combine in position "I"

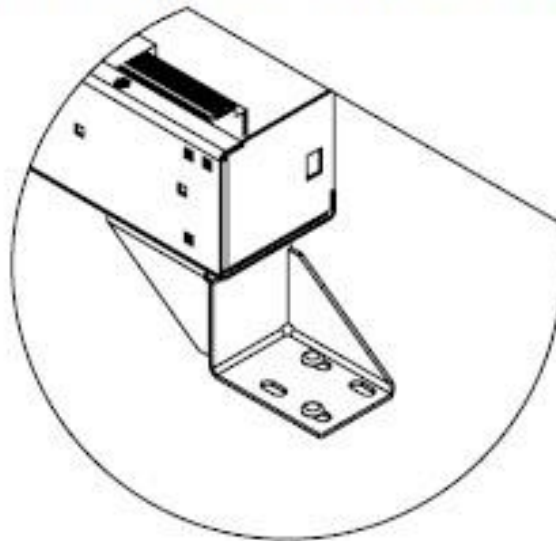


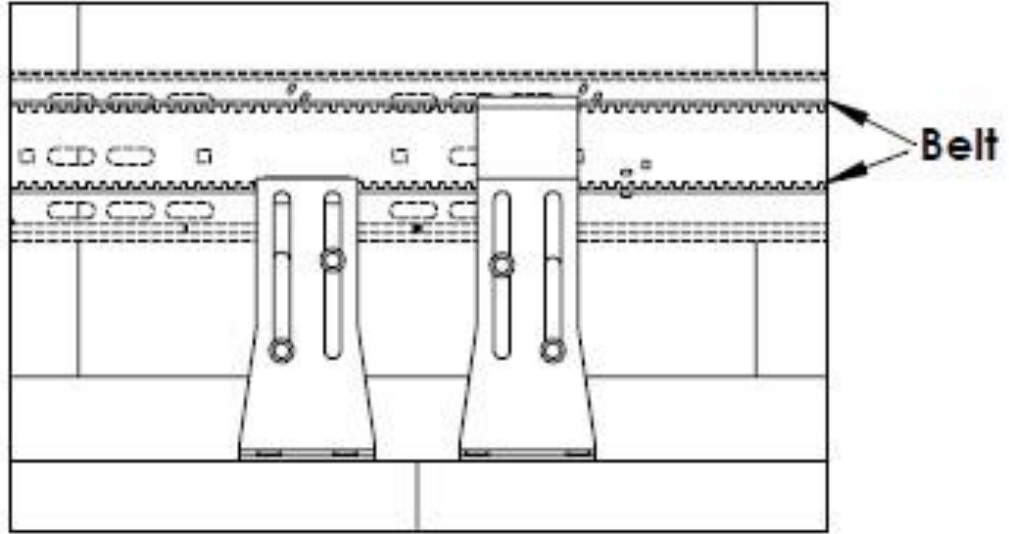


- Mark the hole locations of the door bracket and drill the holes(will be $\varnothing 8.5\text{mm}$).
- please use number 11 and number 12 as shown at page 2 (minimum 2 bolts for each bracket)

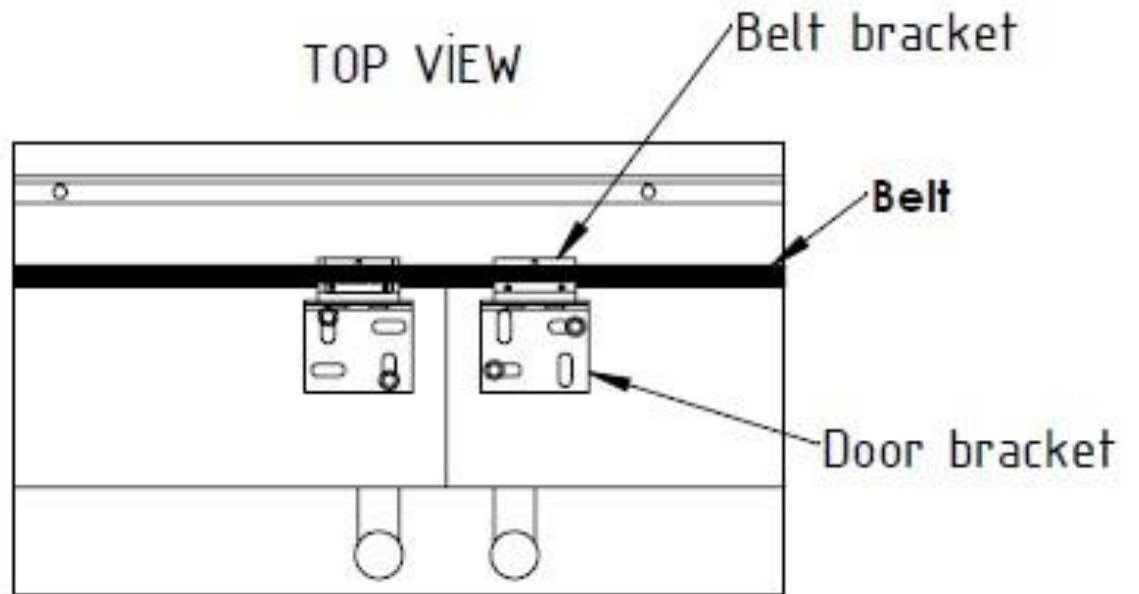


- Connect the door brackets to belt brackets for checking connect it. (see page 11)
- End by keeping the mechanism stable and opening and closing the doors and check.
- The mechanism must be parallel and perpendicular to the machine.
- Marking the mechanism connection bracket hole locations, (take the mechanism out). Drill holes with $\phi 8.5\text{mm}$
- Attach the brackets to the CNC body as shown in the picture.using the nuts and bolts that came in the package.(minimum 2 bolts for each bracket and use nut)

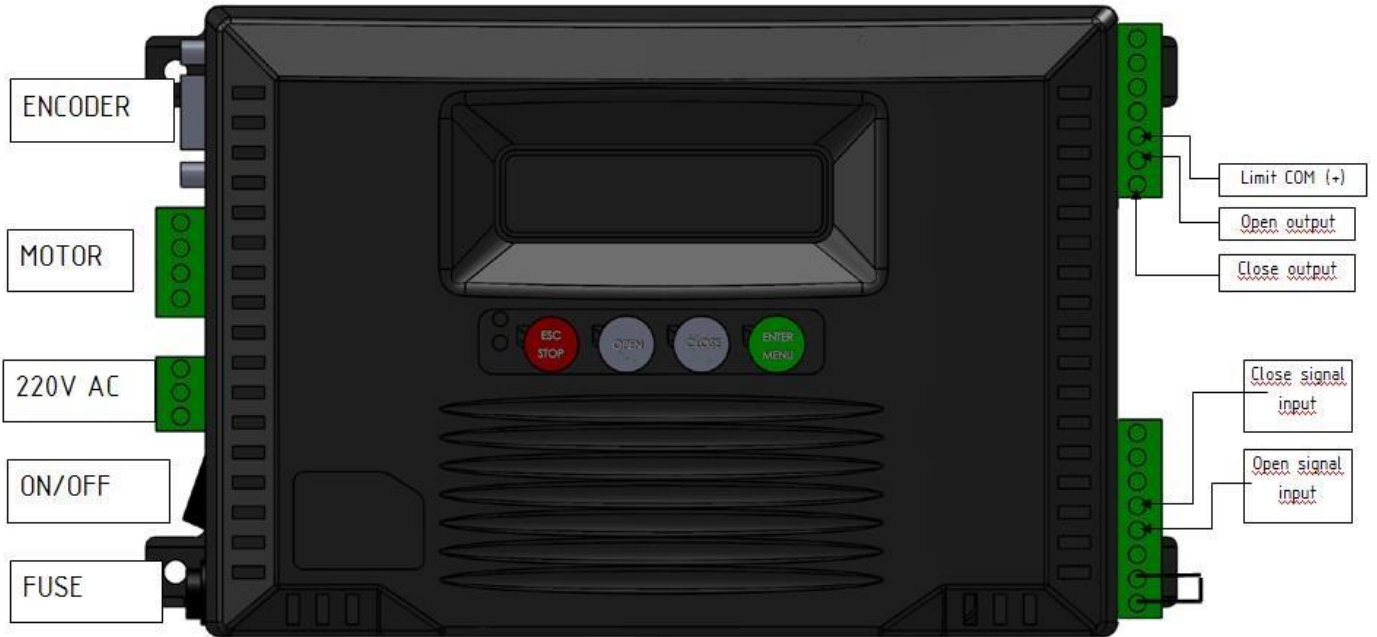




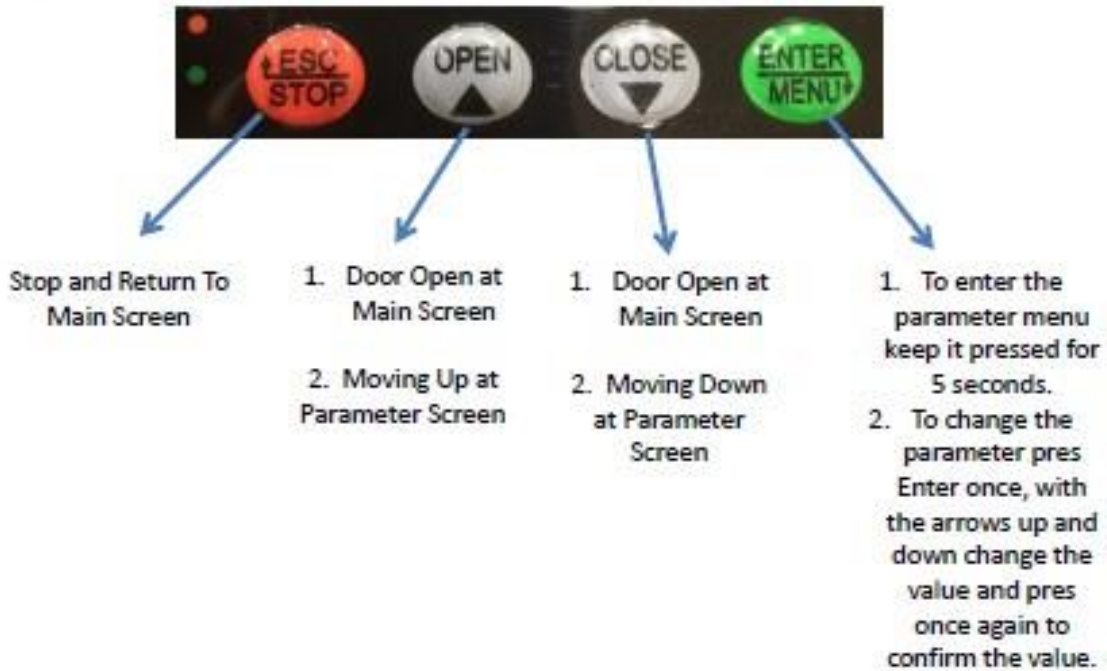
During assembly door and belt brackets each other:
-The belt must be in straight line with all side.



ELECTRICAL DIAGRAM






Keypad Explanations

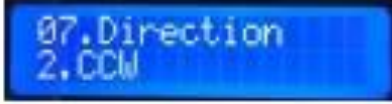


When you are done with the Adjustments press ESC/STOP to return to the main Menu

Numara	Açıklama	Varsayılan	İçerik
01	Language	3.Türkçe	1. English 2. Feranch 3. Turkiye 4. Dutch 5. Russian 6. Arabic 7. Persian 8. Reserved
02	Opening Speed	25.0 Hz	13.Starting speed and 12.Max High Speed
03	Closing Speed	20.0 Hz	13.Starting speed and 12.Max High Speed
04	Linear Length	40%	00% - 99%
05	Re-Open	0.45A	19. Stopping Current and 18.Max.Current
06	Working Mode	2.Digital Input	1. Demo 2. Digital Input
07	Motor Spin Direction	1.CW	1. CW (Right) 2. CCW (Left and Central)
08	Motor Auto Tuning		Automatically tunes the Motor
09	Door Auto Learning		Automatically learns the door width
10	Factory Defaults		It returns all the parameters to factory defaults
11	Administrator		Enters the advanced parameter menu and changes the factory defaults (Enter code:010)
12	Max.High Speed	40.Hz	This parameter changes the value at
13	Starting Speed	03.5Hz	
14	Collision (hitting) Speed	01.2Hz	
15	Skate Speed		Closing or Opening speed of the Skate can be adjusted
16	Holding Torque	27%	It is the holding torque at opening s
17	Auto learning Current	0.45A	It is the torque level at out
18	Max.Current	1.40A	Motor Max.Current 0.20A – 1.40A
19	Stop Current	0.15A	Bottom level of 05.Re-open current limit is adjusted from here
20	Input Mode	3. Edge	1. Two Line 2. One Line 3. .
21	Door Width		20 mm. – 4500 mm.
22	Skate Length	34 mm.	1 mm. – 100 mm.
23	Collision (hitting) Distance	2 mm.	1 mm. – 20 mm.
24	Gear Ratio		00.1 – 20.0
25	VF GANE	2,0	From 1 to 250
26	KPH ERROR GANE	0,28	Error total ratio
27	KPL ERROR GANE	0,2	Error total ratio
28	Programmable Input	1.Demo Mode	1.Demo Mode 2.Restart Mode 3. Re-open Mode
29	Programmable Output	2. Re-Open Mode	1.Cam Mode 2. Re-Open Mode 3.Ready mode 4. Fault mode 5.Error mode
30	Re-Open Error	010	(1-10) to determine how many times to Re-Open before giving Error
31	Save Factory Defaults		All the parameters are recorded and saved as Factory Defaults thus changing the Factory Defaults at parameter Nr.11

Motor & Board Tuning

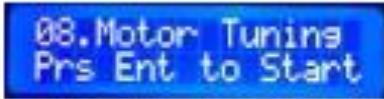
At main screen pus ENTER  and keep it pushed for 5 sec., with UP  or DOWN  buttons go to the menu you need .




07. DOOR MOTOR DIRECTION ADJUSTMENT

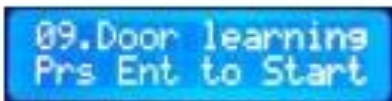
Make the adjustment as below according your cabin door opening direction .

1. CW (RIGHT)
2. CCW (LEFT & CENTRAL)







08. MOTOR TUNING Prs Ent to Start

After adjusting the motor direction go to : 08. **MOTOR TUNING PRES ENTER START** menu .
Press ENTER  once . On the screen blinking TUNING word will appear . After a while it will stop and on the screen you will see 08. **MOTOR TUNING PRES ENTER START** .
Tuning is finished .






09. DOOR LEARNING Prs Ent to Start

After finishing TUNING proceed to 09. DOOR LEARNING PRES ENTER START menu . Press ENTER  once . On the screen blinking LEARNING word will appear and the door will slowly open and close till the end .Then again you will see 09. **DOOR LEARNING PRES ENTER START** menu . Door Learning is finished .

After you finish press ESC  once . It will return to main menu . Take out the socket with 5 entrances and with marks K3, K5 (main connection from board) . Pres  OPEN , it will open slowly . Then pres CLOSE  it will close slowly . This way your test is finished .

Returning to Factory Settings

At main screen pus ENTER  and keep it pushed for 5 sec., with UP  or DOWN  buttons go to the menu you need .



10. Load Factory HOLD Ent to LOAD

Cabin operators are adjusted and tuned at the factory . In case you face serious problems please return to the Factory setting from the menu 10. **FABRIKA GERİ ENTER BASILI TUT** Pres ENTER and keep it pressed . 1. Default word will appear , release the button and pres Enter again . LOADING word will appear and it will disapear . 10. **FABRIKA GERİ ENTER BASILI TUT** menu will appear . Returning to Factory settings is finished ,

ERROR CODE EXPLANATIONS

ERROR 1

If the door cannot close 5 times this error will appear . To reset this either the door ahs to close one time or you can switch of the inverter with ON/OFF button .

ERROR 2

RS232 Encoder cable is out or some of the sockets are not properly clutched . Shortly problem with the encoder connection .

ERROR 3

Motor socket is not properly plugged . Check the Red , White , Black cables for any deformations

ERROR 4

Problem with the Encoder signal . If it gives this error while the motor is on the move check the encoder cable socket .