

## APPENDIX-2 CAR OPERATING PANEL INSTALLATION

### BELLA SERIES SERIAL CAR OPERATING PANEL INSTALLATION AND USERS MANUAL



**TFT Displays**

Document Version : v1.03

BELLA Software Version : 1.3

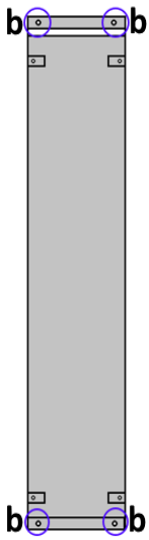
# 1. Installation



1. Unscrew the small screw caps at the points indicated by "a" and remove the screws underneath. (There are 4 screws in Half Height COPs and 8 screws in Full Height COPs.)



2. Take the front steel cover by pulling out.



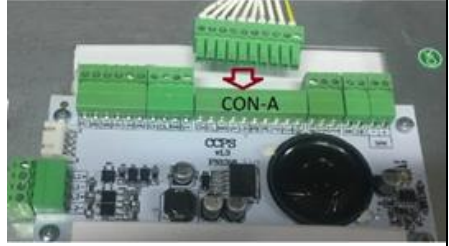
3. Place the back box of the COP in the hole previously drilled for COP on elevator cabin wall. Fix the box to the cabin wall with screws at the points indicated by "b" in the figure.



4. The only electric connection to the COP is **CON-A** cable.

Pass one terminal of **CON-A** cable through the hole indicated as "X" in the figure.

5. Connect the CON-A cable to the CON-A terminal in COP.

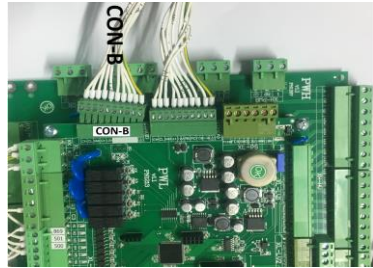


6. Insert one terminal of the **CON-A** cable to the **CON-A** socket of **PWL Board** in the inspection box.

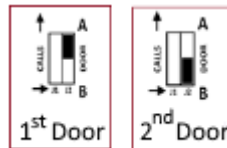


7. If there are two car doors and two COPs:

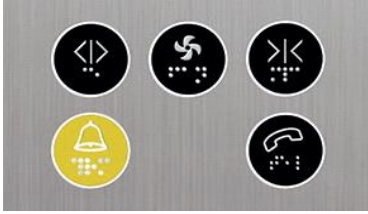
- i. Carry on all steps from **1 to 4** for the **second COP** in the cabin to fix it onto the cabin wall.
- ii. Insert one terminal of the second **Con-A** cable to the **CON-B** socket of PWL board in the inspection box.
- iii. Pass the other terminal of CON-A cable through the hole indicated as **x** in **Figure 4** and insert it to the **CON-A** socket in COP.



If there are two doors and two COPs then set J2 switches in one COP as A and in the other as B.

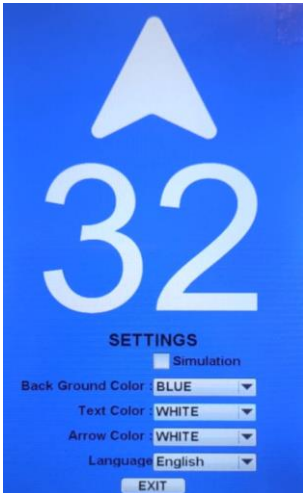


J2 switch is used to define the side of the COP if there are two doors and two COPs.



8. The function buttons should be used to configure the TFT Display. Button labels may change however the important thing is the location of the buttons.

The electrical power of COP must be cut off before the setup screen. After the COP is energized again, press TOP LEFT and TOP RIGHT buttons simultaneously within 3 seconds.



9. The settings menu will be displayed on the screen. The following options are displayed on the settings screen

- **Simulation** : Simulates as if the lift is operating.
- **Back Ground Color** : Changes the background color of the display.
- **Text Color**: Changes the color of the numbers and characters.
- **Arrow Color**: Changes the color of the direction arrow.
- **Language**: Changes the language.



10. If an image is desired to be placed on the background of the TFT screen, the image is uploaded to the SD card. The name of the image should be **tft** and its extension **.bmp** (namely tft.bmp).

Then the SD card is placed on the COP board. After accessing the settings menu, the **Back Ground Color** option should be selected as **Image**.



**11.** Simulation mode is marked with TOP RIGHT button(Activated). The mark in the box is removed again by pushing TOP RIGHT button(Passivated).

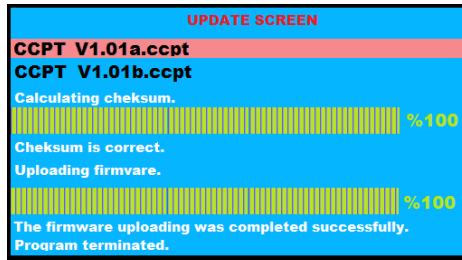
**NOTE:** If "Simulation" mode is activated, the COP switches to simulation mode. It does not communicate with the control panel. "Simulation" mode must be passive for communication with the control panel.

Push TOP LEFT button shortly to switch to other parameters. Their values can be adjusted by pushing TOP RIGHT button.

The TOP LEFT button confirms the selection and focuses on the next option.

Select EXIT button and push the TOP LEFT button to saving the settings.

## 2. Firmware Update



12. The software of TFT display can be updated via SD card.

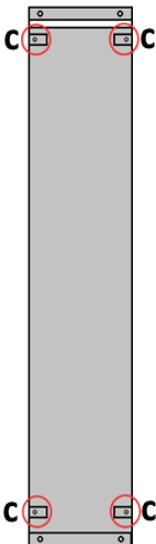
Before updating the software of TFT, upload the requested software to the SD card (.ccpt file extension). Then the SD card is placed on the COP board.

The electrical power of COP must be cut off before the update screen. Before re-energizing, push the TOP RIGHT button.

Select the .ccpt file extension on the update screen. If there is more than one file in the SD card, push TOP RIGHT to go up or DOWN RIGHT to go down.

Push the TOP LEFT button to start the update. After the update process is completed, the COP will be restarted.

**Warning : During the update process, never turn off the power.**



13. After TFT settings are completed place the front steel panel onto COP. Then screw four **4.8x16** drill head screws supplied with the product through the blue marked holes to fix the front steel panel.



14. To fix the front panel, screw the supplied **m4x17 screws** (4 pieces for half, 8 pieces for full height COPs) through the holes marked as "a" in the figure and install the metal screw caps.

## 2-Using The Product

- Prevent the product from dust, humidity, excessive heat and impact in storing, installing and using phases.
- COP is working with serial communication. Therefore, the **lift controller to which it will be connected must be functioning with the same protocol that COP has.**
- Use only special stainless steel cleaners to clean the COP. Other chemical cleaners may damage the surface of the steel.
- Protect the COP from any water drops or direct contact with other liquids.
- Always, switch off the power before opening the front cover of the COP.