

2.5 Electrical wiring

ATTENTION

When raining, be sure to implement the commissioning by attaching the front panels to the unit.



HIGH VOLTAGE

200V to 400V of high voltage is applied. If touching high voltage parts, it may result in electric shock or death. When performing inspection, pay attention not to touch the charging circuit. And when replacing electric parts, be sure to turn off the main power and wait for 3 minutes before touching electric parts.



HIGH TEMPERATURE

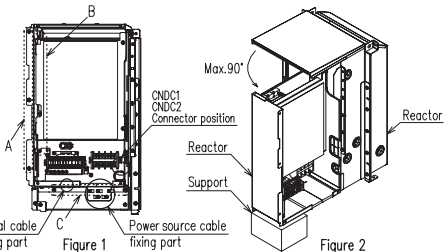
Though the power is OFF, the control has heated parts, especially reactor, so leave it for enough time.

CAUTIONS FOR MAINTENANCE OF THE CONTROL BOX

This control box has its front part hinged so as to be able to open and close for maintenance of the inverter. Following cautions must be observed during the maintenance. Always follow the instructions described in the technical manual when implementing the maintenance.

1. Turn off the power source before starting the maintenance.
2. After waiting for minimum 3 minutes after turning off the main power source, measure the DC power source voltage to confirm according to the technical manual that the electricity has been discharged sufficiently. Only then disconnect the power source cable and the signal cable from the terminal board.
3. Remove a total 8 pieces of screws at the sections A, B and C and the cable fixing part in Figure 1.
 - Take care not to drop screws on the PCB, etc. when removing them.
 - Make sure to collect when dropped any.
4. Open the front part of the control box as shown in Figure 2.
 - Don't open the front part more than 90°.

- Avoid exerting undue force on the open front part.
 - Provide a support under the open front part.
5. After opening the front part of the control box, you can access to the inverter. Start the maintenance according to the technical manual.
 - When a tie wrap band has been cut off, fix it firmly at the original position with a new tie wrap band.
 - When a connector has been disconnected from the PCB, insert firmly the connector again at the original position.
 6. When the maintenance is over, close the front part of the control box.
 - Take care not to nip the wiring with the front part.
 7. Reinstall and tighten the 8 screws removed at the sections A, B and C and the cable fixing part.
 - Don't overlook to tighten the screws at the section B particularly.
 - Take care not to drop screws on the PCB, etc. when tightening them.
 - Make sure to collect when dropped any, and tighten them at proper positions.
 8. Confirm visually that all screws have been tightened, and all cables have been connected properly.



ELECTRIC WIRING DIAGRAM

