



VEBKO ONLINE HELP

Assembly Stages of AMR Relay

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The metallic main case of the "AMR" relay is designed and made of Aluminium3105 by experts at Vebko company and different modules of relay are placed in the integrated racks. To begin the assembly, the front panel of "Main Case" is opened.



Figure 1

1 Preparation of "MidPlate"

To prepare "MidPlate", micro module is placed on it and the front panel of "Mid Case" which has been opened before is placed on "MidPlate" module and its screws are tightened. After doing this, the front panel along with "MidPlate" is placed on "Main Case" module and its screws are tightened.



Figure 2

2 Preparation of Power Supply Board

Back panel of “PS” or power supply card is placed on “PS” card and its screws are tightened. Then, the “PS” card is placed inside the “main case” and the related screws are tightened.

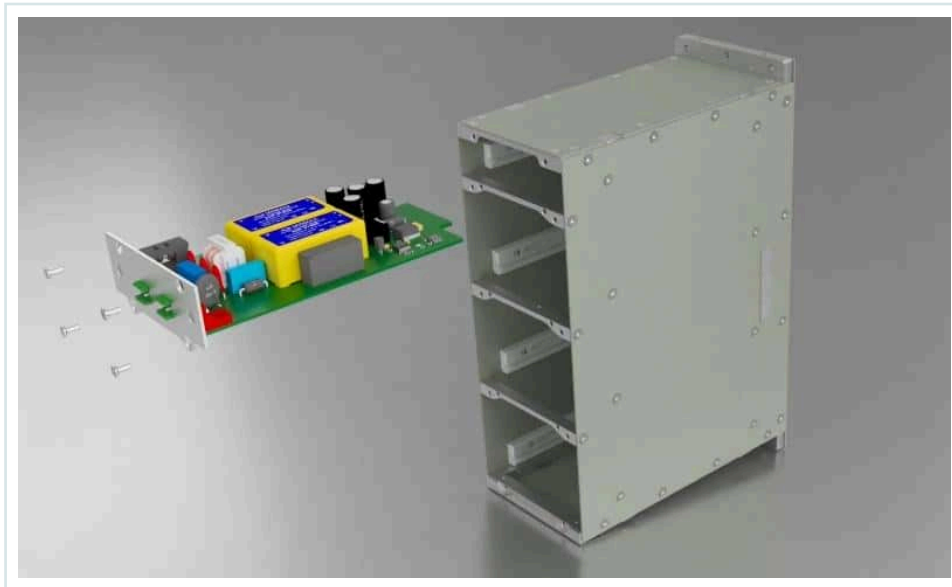


Figure 3

3 Preparation of “CPU” card or “Main Card”

“MSD” module along with related spacer is placed on the micro module and its bolts are tightened from beneath. The micro module is placed on “Main Card” as the main “CPU”. Then, “LAN-WiFi” module is placed in the related place on “Main Card” and is tightened from beneath using 2 screws and spring washer. Also, the “GPS-RS485” module is placed on the two spacers at the top of “LAN-WiFi” module and is tightened using 2 bolts and spring washer and then, using a communication flat, “GPS” module is connected to “Main Card”. Next, “Back Panel” of the “Main Card” is placed on the card and, by using the related bolts, is tightened to the “GPS” antenna of the “Back Panel” along with 4 spacers. Finally, the “Main Card” is placed inside the case and its screws are tightened.



Figure 4

4 Preparation of "PT-BO" card

To prepare this card, "AD gain" module is placed in its related place on "PT-BO" card and is tightened from beneath using screws and spring washer. Then, four "PT" modules are placed in their related place on "PT-BO" card and its screws and spring washer are tightened from beneath. At this stage, BO module (Binary Output) is placed on 41 millimeter spacers and its bolts and spring washer are tightened. Then, the communication flat between "BO" and "PT-BO" is connected. After that, the back panel of "PT-BO" card is connected to "PT-BO" card using 4 screws and then this card is placed in its designated place in the case and then its screws are tightened.

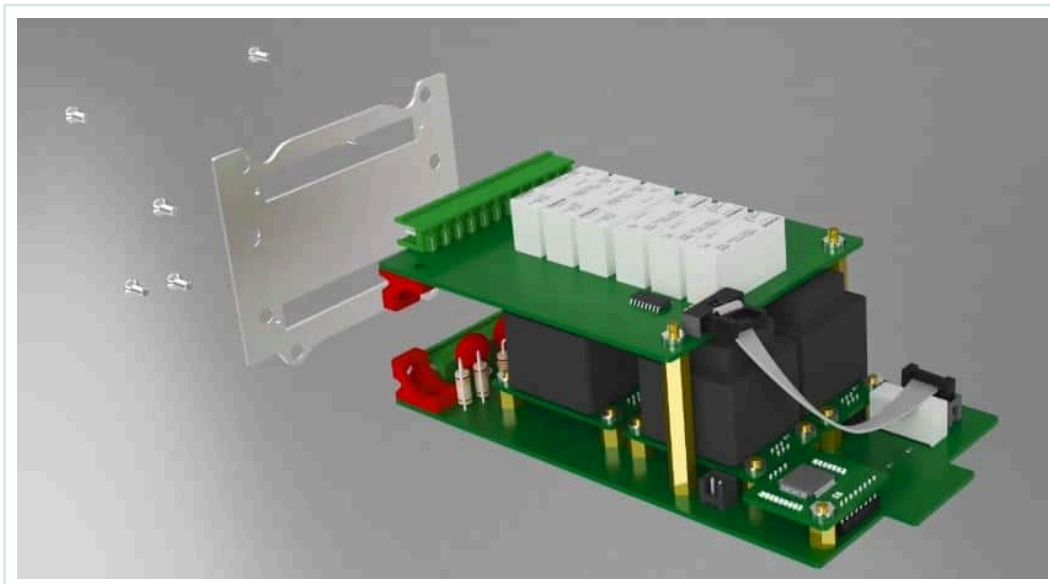


Figure 5

5 Preparation of "CT-BI" card

In preparation of this card, barrier connector is connected to the "Back Panel" of "CT-BI" card and this "Back Panel" is connected to "CT-BI" card. At this stage, "AD Gain" module is placed on "CT-BI" card and tightened using screws and spring washer. Now, four "CT" modules are placed on "CT-BI" card and its screws and spring washer are tightened. Then, a 2.5 strand wire is passed through "CT"s and is soldered after swinging to the barrier connector. Then, the connections are covered using varnish (or shearing). At this stage, "BI" module (Binary Input) is placed on 43 millimeter spacers and its 3 screws and spring washer and the screws of its back panel are tightened. Next, its communication flat is connected to "CT-BI" card. Finally, the "CT-BI" card is placed in its integrated place in the case and its 4 screws are tightened.

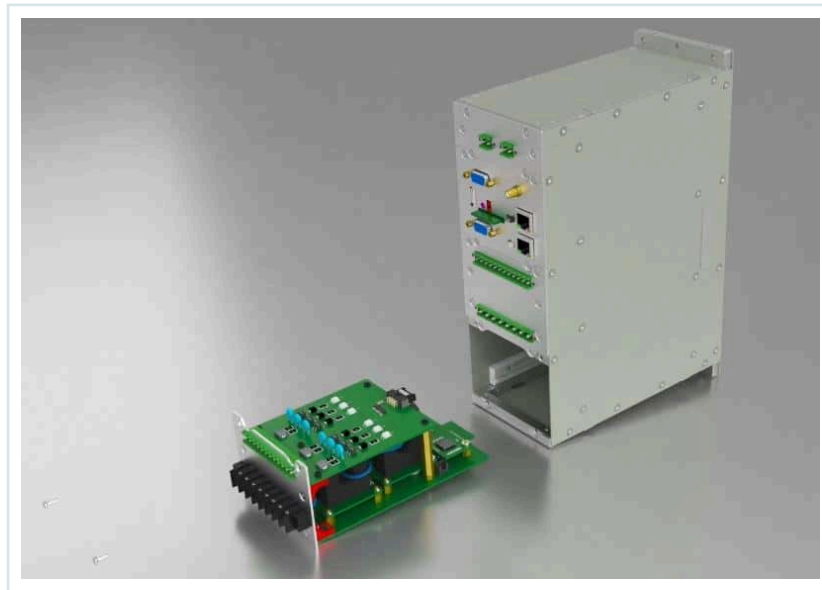


Figure 6

6 Preparation of “Front Panel”

The first step in preparing “Front Panel” is opening the back panel of “LCD-CASE”. Then, “LAN” module is placed on “Front Panel” module and its screw and spring washer are tightened. Next, “MSD” module along with the related spacer is placed on micro module and its bolts are tightened from beneath. In the end, the Micro module is placed on “Front Panel”.

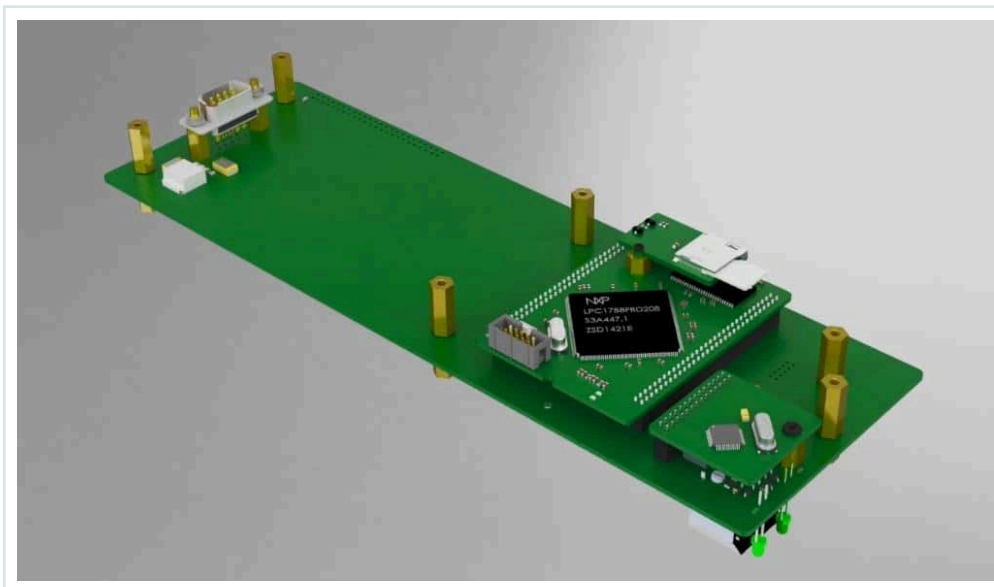


Figure 7

After closing the back panel of “LCD-CASE” in the back of “Front Panel”, “RS232” module is placed on “Front Panel” and its 3 screws and spring washer are tightened. Finally, “LCD” is placed on “LCD”

module and its related flat is connected and then "LCD" module is placed on "Front Panel" module and its 4 screws and spring washer are tightened. After preparing the "Front Panel" board, it is placed in the main case of "LCD-CASE" and its screws are tightened to the back panel.

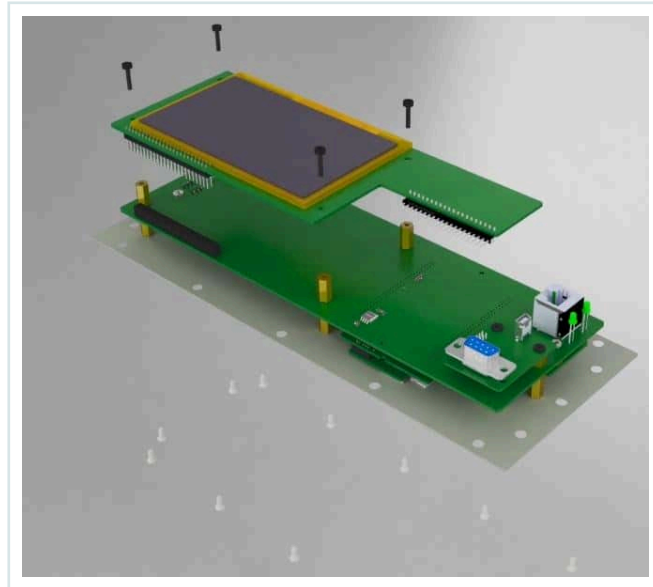


Figure 8

At the final stage, the front panel of "LCD-CASE" is opened and a label is stuck on it. Then, the flat label is connected to the related pin header on "LCD" module and the plate is placed in its designated place and its screws are tightened. Note that there are two spacers placed on "Front Panel" and the "Front Panel" is connected to the relay main case using two 4*50 screws.



Figure 9

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