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Service Information

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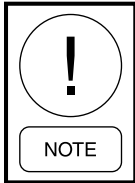
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Equipment Affected: CYK with Quantum Control Panel

CYK Quantum LX Panel Keypad/Touch-screen Installation Instructions



Read this entire instruction before attempting to install the keypad/touch-screen and ensure equipment power has been removed using lockout/tagout procedures.

1. To install a new keypad, remove power from the control panel and remove the two ribbon connectors attached to two circuit boards on the reverse side of the panel door. Refer to *Figure 1*.

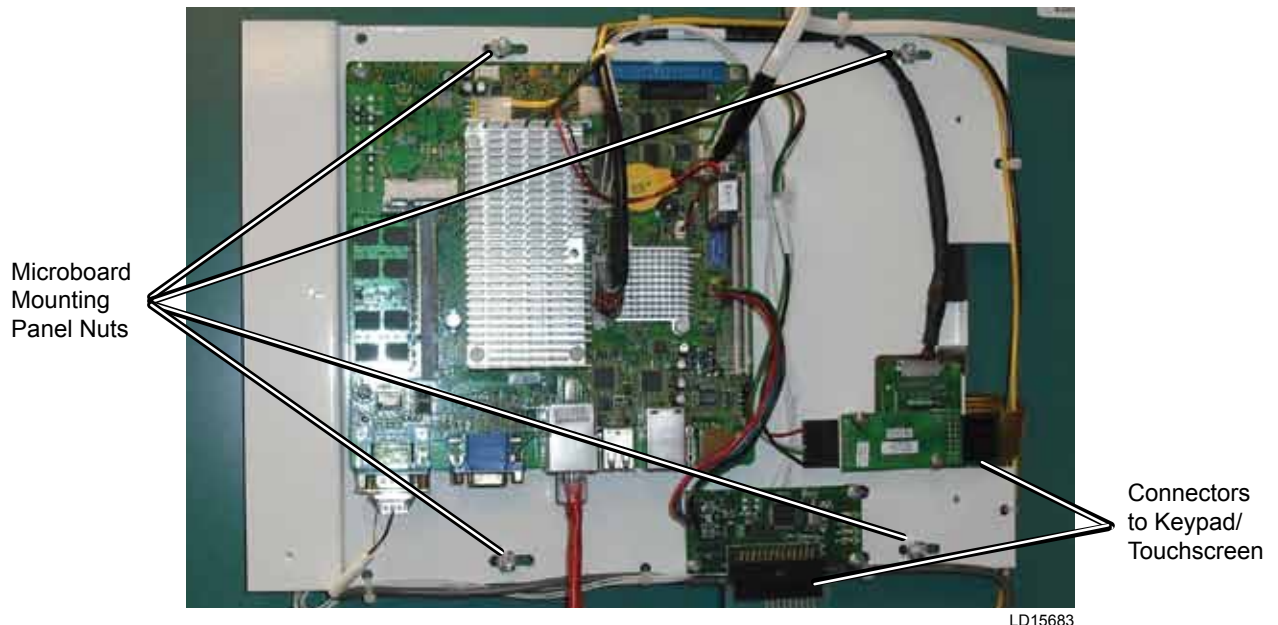


FIGURE 1 - MICROBOARD MOUNTING NUTS AND RIBBON CONNECTORS

Work on this equipment should only be done by properly trained personnel who are qualified to work on this type of equipment. Failure to comply with this requirement could expose the worker, the equipment and the building and its inhabitants to the risk of injury or property damage.

The instructions on this service bulletin are written assuming the individual who will perform this work is a fully trained HVAC & R journeyman or equivalent, certified in refrigerant handling and recovery techniques, and knowledgeable with regard to electrical lock out/tag out procedures. The individual performing this work should be aware of and comply with all Johnson Controls, national, state and local safety and environmental regulations while carrying out this work. Before attempting to work on any equipment, the individual should be thoroughly familiar with the equipment by reading and understanding the associated service literature applicable to the equipment. If you do not have this literature, you may obtain it by contacting a Johnson Controls Service Office.

Should there be any question concerning any aspect of the tasks outlined in this bulletin, please consult a Johnson Controls Service Office prior to attempting the work. Please be aware that this information may be time sensitive and that Johnson Controls reserves the right to revise this information at any time. Be certain you are working with the latest information.

2. Peel off the old keypad and make sure all dirt, grime, and any previous adhesive from the keypad has been completely removed from the panel door.

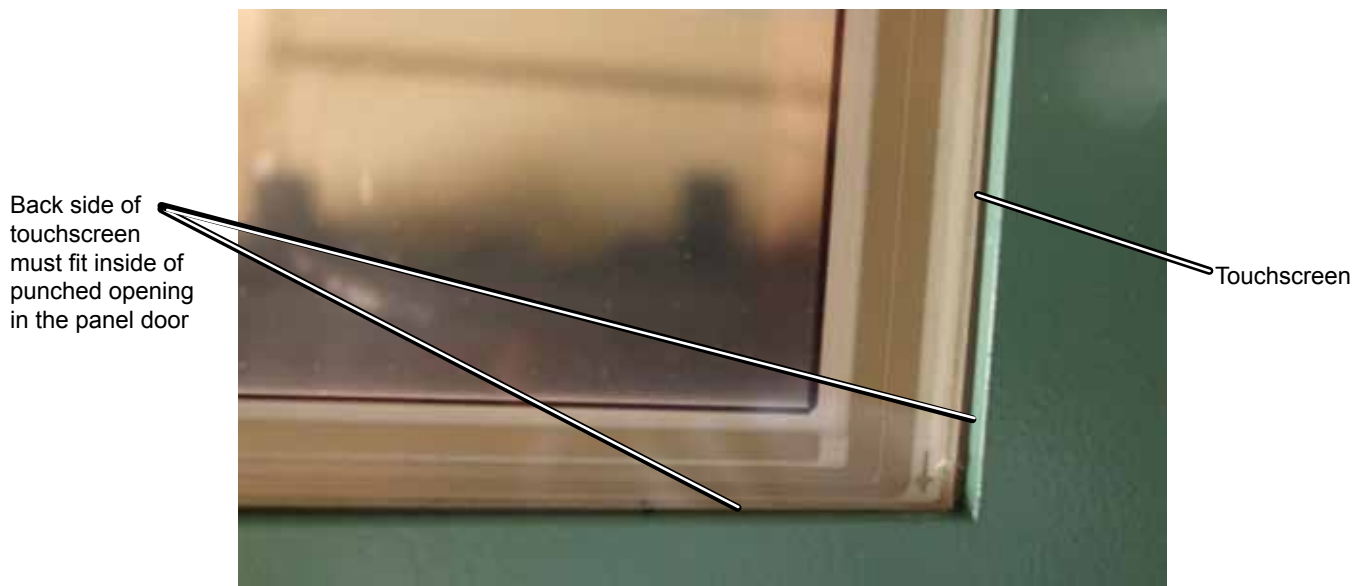
The nuts on the microboard mounting panel will need to be loosened slightly to provide a gap between the display screen and the panel door in order to allow the connectors to pass through the opening when the failed keypad/touch-screen is removed. Refer to *Figure 1* and *2*.



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FIGURE 2 - REMOVING KEYPAD

3. **DO NOT REMOVE** any paper backing from the new keypad that would expose the adhesive surface in this step of the installation. Pre-fit the keypad into the keypad opening on the panel door to determine the amount of clearance available when installing the keypad. This step provides a “feel” for how the touch-screen border should fit into the panel during the installation. **Failure to do this step could result in the touch-screen border not being properly aligned inside the opening in the panel door. Once the keypad adhesive backing is pressed into the panel door, it cannot be removed without possible damage to the keypad. If the touch-screen boarder is not properly aligned within the panel opening, the display will be skewed and partially obscured.**



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FIGURE 3 - PRE-FIT SHOWING BACKSIDE OF PANEL DOOR WHERE TOUCH SCREEN WILL FIT IN PANEL DOOR OPENING

4. Lay keypad/touch-screen face down on a flat surface so that the adhesive side is facing up as shown in *Figure 4*.



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FIGURE 4 - KEYPAD/TOUCH-SCREEN

5. Remove protective plastic from touch-screen shown in *Figure 5*.



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FIGURE 5 - PROTECTIVE PLASTIC

6. Using a utility knife, carefully slice through the adhesive paper backing ONLY, at upward 45° at dashed lines in *Figure 4* and fold outward as shown in *Figure 6*. This paper tab will be used to remove the adhesive backing paper after the keypad has been placed in the correct position on the panel door. To allow for easy removal of the adhesive backing, ensure that the “tabs” extend beyond the keypad outside boarder.



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FIGURE 6 - CUTTING ADHESIVE PAPER BACKING

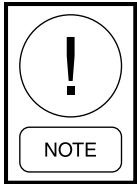
7. Remove paper backing from the upper portion of the keypad as shown in *Figure 7*.



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FIGURE 7 - REMOVING PAPER WRAPPER

8. Begin installing the keypad by holding at an angle with bottom toward the panel door. Be sure to place the two ribbon cables inside of the opening from keypad touch-screen. Refer to *Figure 8*.
9. Slightly pull back on the top of the keypad that has the adhesive exposed in *Step 7* to avoid contact with the panel face, and line up touch-screen bottom with the bottom of window opening in panel, and the side of the touch-screen with the side of the panel opening. Reference Pre-fit in *Step 3*.



IMPORTANT: The touch-screen must be inside the panel opening on both the bottom and sides.

When lined up, then push keypad top toward panel door to adhere in place and maintain alignment of touch-screen with panel opening.



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FIGURE 8 - INSTALLING KEYPAD



10. Once the top of keypad is adhered to the panel door, then pull paper tabs created in *Step 6* down and off of keypad. The touch-screen can now be fitted in the opening. Refer to *Figure 9*.
11. Finish installation by pushing on keypad to complete full glue adherence to the panel door. Be sure to tighten the nuts on the microboard mounting panel loosened in *Step 2*, and ensure that the two connectors disconnected in *Step 1* are reconnected.



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FIGURE 9 - PULL PAPER BACKING OFF KEYPAD/TOUCH-SCREEN

12. Reapply power to panel. Once the panel has loaded the application and is displaying the Home screen:

- Press the Touch-screen Calibration  Key on keypad. A dialog box will appear on the screen, asking “Would You Like To Calibrate The Touch Screen?”. Refer to *Figure 10*.
- Press the ENTER  Key on the keypad. A blue screen will appear.
- Touch the two dots on the screen as instructed.
- From the Home screen, press LOGIN on the touch-screen and log in using service access code. Access level should display SERVICE, indicating the Keypad is correctly connected.
- From the Home screen, press LOGOUT. Access level should display VIEW level.
- Installation and calibration process is now complete.



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FIGURE 10 - TOUCHSCREEN CALIBRATION