



## DXM Replacement of CXM INSTALLATION INSTRUCTIONS

### **Be Sure all power is turned OFF and it is safe to work in control box!!**

1. Removing the CXM. Label wires which are connected to the CXM. Remove wires from the CXM. Remove the 4 mounting screws which hold the CXM in place and save to be used to mount the DXM.
2. Mounting the DXM. The mounting hole pattern for the CXM is different than the mounting hole pattern for the DXM thus the DXM will be mounted in different holes. Some control boxes have predrilled holes for CXM OR DXM thus look to see if DXM hole pattern is already pre-drilled. If not, then drill four 0.109" holes in appropriate location to mount the DXM. An alternative to drilling new holes is to use 1/4" hexhead #6 x 3/4" self-tapping screws to mount the DXM. Once holes are in place, mount DXM. Not all of the metal shoulder eyelets need to have a mounting screw but it is advised to mount a screw in the 4 corner holes if possible.

**Note: The DXM is grounded through some of the metal shoulder eyelets. The DXM is grounded via either the top-left, top-right, or the bottom-right shoulder eyelet. Look at the back side of the board and one can see the ground trace connection to these metal shoulder eyelets. It is required that at least one of these grounding metal shoulder eyelets have a mounting screw, to assure proper grounding of the DXM.**

**Note: Most connections to the CXM and DXM are the same. Therefore some connections will merely require reading labeled wires and connecting to appropriate point on DXM.**

3. 24VAC transformer wires. The connections for 24Vac Power are similar for the CXM and DXM. Wires from the 24Vac transformer should be connected to the R and C, 1/4" male quick connects on the DXM.
4. System Inputs. The connections for HP, LP, FP1, FP2, RV, and CO are similar for the CXM and DXM. Connect system input harness to port P7 on the DXM.
5. Electric Heat (skip this step if electric heat coils are not being used in heat pump). The connections for Electric Heat are similar for the CXM and DXM. Connect the Electric Heat circuit harness to port P6 on the DXM.
6. Compressor Relay. The connections for the compressor relay are similar for the CXM and DXM. Wires from compressor contactor coil should be connected to CC and CCG terminals on DXM.
7. Blower wires (line voltage duty) For unit voltages of 277 Volt or less. Disconnect blower coil wires, and blower relay contact wires from blower relay. Remove the blower relay used with the CXM control, this relay and the relay coil wires will not be used with the DXM controller. On the DXM controller connect the orange wire, supplied in the kit from the Fan Enable relay NO to the Fan Speed relay COM. Connect the wire (was connected to the Blower relay COM) to the DXM Fan Enable relay COM. Connect the wire (was connected to the Blower relay NO) to the DXM Fan Speed relay NC.

**Note: The wire shown in the replacement DXM wire diagram connecting the Blower Motor High speed tap to the DXM Fan Speed relay NO is only available with units purchased with DXM controls from the factory.**

8. Blower wires (pilot duty). **For unit voltage greater than 277 Volts.** Wires from blower relay coil should be connected to the DXM in a pilot duty mode of operation. One blower relay coil wire (was connected to CXM-BRG) should be connected to C terminal (1/4" quick connect) on DXM. The other blower relay coil wire should be connected to the NO terminal (1/4" quick connect) of the Fan Enable relay on the DXM. The COM terminal of the Fan Enable relay on the DXM should be jumpered to R terminal (1/4" quick connect) on the DXM using the red wire supplied in the kit.

**Note: The wire shown in the replacement DXM wire diagram connecting the Blower Motor High speed tap to the DXM Fan Speed relay NO and the BR2 which serves as a fan speed switching relay are only available with units purchased with DXM controls from the factory.**

9. Thermostat Connections. Connect thermostat wires to appropriate points on DXM.
10. Wire Diagram Replacement. Remove the CXM wire diagram and replace with the appropriate DXM wire diagram.



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