

INVERTER PCB KIT

AVXC20, AVZC18, AVZC20, DX20VC, DZ18VC & DZ20VC INSTRUCTIONS

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ATTENTION INSTALLING PERSONNEL

As a professional installer you have an obligation to know the product better than the customer. This includes all safety precautions and related items.

Prior to actual installation, thoroughly familiarize yourself with this Instruction Manual. Pay special attention to all safety warnings. Often during installation or repair it is possible to place yourself in a position which is more hazardous than when the unit is in operation.

Remember, it is **your** responsibility to install the product safely and to know it well enough to be able to instruct a customer in its safe use.

Safety is a matter of common sense...a matter of thinking before acting. Most dealers have a list of specific good safety practices...follow them.

The precautions listed in this Installation Manual are intended as supplemental to existing practices. However, if there is a direct conflict between existing practices and the content of this manual, the precautions listed here take precedence.

WARNING

DISCHARGE YOUR BODY'S STATIC ELECTRICITY BEFORE TOUCHING PCB AND/OR UNIT. AN ELECTROSTATIC DISCHARGE CAN ADVERSELY AFFECT ELECTRICAL COMPONENTS. USE THE FOLLOWING PRECAUTIONS DURING INSTALLATION AND SERVICING TO PROTECT THE PCB FROM DAMAGE:

1. DISCONNECT ALL POWER TO THE UNIT. DO NOT TOUCH THE PCB OR ANY WIRE CONNECTED TO THE CONTROL PRIOR TO DISCHARGING YOUR BODY'S ELECTROSTATIC CHARGE TO GROUND.
2. FIRMLY TOUCH A CLEAN, UNPAINTED, METAL SURFACE OF THE UNIT AWAY FROM THE CONTROL.

BY PUTTING THE UNIT, THE CONTROL, AND THE PERSON AT THE SAME ELECTROSTATIC POTENTIAL, THESE STEPS WILL HELP AVOID EXPOSING THE PCB TO ELECTROSTATIC DISCHARGE.

WARNING

ONLY PERSONNEL THAT HAVE BEEN TRAINED TO INSTALL, ADJUST, SERVICE OR REPAIR (HEREINAFTER, "SERVICE") THE EQUIPMENT SPECIFIED IN THIS MANUAL SHOULD SERVICE THE EQUIPMENT. THE MANUFACTURER WILL NOT BE RESPONSIBLE FOR ANY INJURY OR PROPERTY DAMAGE ARISING FROM IMPROPER SERVICE OR SERVICE PROCEDURES. IF YOU SERVICE THIS UNIT, YOU ASSUME RESPONSIBILITY FOR ANY INJURY OR PROPERTY DAMAGE WHICH MAY RESULT. IN ADDITION, IN JURISDICTIONS THAT REQUIRE ONE OR MORE LICENSES TO SERVICE THE EQUIPMENT SPECIFIED IN THIS MANUAL, ONLY LICENSED PERSONNEL SHOULD SERVICE THE EQUIPMENT. IMPROPER INSTALLATION, ADJUSTMENT, SERVICING OR REPAIR OF THE EQUIPMENT SPECIFIED IN THIS MANUAL, OR ATTEMPTING TO INSTALL, ADJUST, SERVICE OR REPAIR THE EQUIPMENT SPECIFIED IN THIS MANUAL WITHOUT PROPER TRAINING MAY RESULT IN PRODUCT DAMAGE, PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.

WARNING

DO NOT CONNECT TO OR USE ANY DEVICE THAT IS NOT DESIGNED CERTIFIED BY THE MANUFACTURER FOR USE WITH THIS UNIT. SERIOUS PROPERTY DAMAGE, PERSONAL INJURY, REDUCED UNIT PERFORMANCE AND/OR HAZARDOUS CONDITIONS MAY RESULT FROM THE USE OF SUCH NON-APPROVED DEVICES.

WARNING

HIGH VOLTAGE!

DISCONNECT ALL POWER BEFORE SERVICING.
MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.





PROG. INV. PCB KIT	Daikin Model	Amana Model	REF UNIT
0272R00976S	DX20VC0241**	AVXC200241**	2 TON AC
0272R00978S	DX20VC0361**	AVXC200361**	3 TON AC
0272R00981S	DX20VC0481**	AVXC200481**	4 TON AC
0272R00994S	DX20VC0601**	AVXC200601**	5 TON AC
0272R00985S	DZ20VC0241**	AVZC200241**	2 TON HP
0272R00988S	DZ20VC0361**	AVZC200361**	3 TON HP
0272R00991S	DZ20VC0481**	AVZC200481**	4 TON HP
0272R00997S	DZ20VC0601**	AVZC200601**	5 TON HP
0272R01042S	DZ18VC0241**	AVZC180241**	2 TON HP
0272R01043S	DZ18VC0361**	AVZC180361**	3 TON HP
0272R01044S	DZ18VC0481**	AVZC180481**	4 TON HP
0272R01045S	DZ18VC0601**	AVZC180601**	5 TON HP

PROGRAMED INVERTER PCB KIT INSTRUCTIONS:

WARNING: Discharge your body’s static electricity before touching PCB and/or unit. An electrostatic discharge can adversely affect electrical components. Use the following precautions during installation and servicing to protect the PCB from damage. By putting the unit, the control, and the person at the same electrostatic potential, these steps will help avoid exposing the PCB to electrostatic discharge.

- Remove the screws from the cooling loop cover to allow it to hinge open. (Figure 1)

 WARNING
<p>HIGH VOLTAGE! DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.</p> 

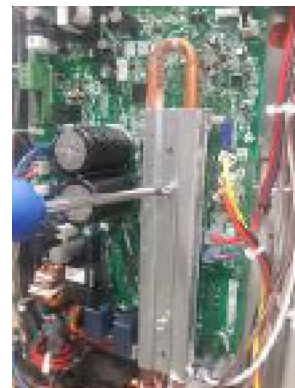


Figure 1

- Disconnect all power to the unit. Do not touch the PCB or any wire connected to the PCB prior to discharging your body’s electrostatic charge to ground.
- Firmly touch a clean, unpainted, metal surface of the unit away from the control.
- Note location of all wiring and plug terminals (recommend pictures) and remove all wiring from PCB.

- Pull back gently on the 3/8 copper tubing. (Figure 2)



Figure 2

NOTE: Thermal grease applied between the heat sink and the refrigerant loop allows for proper cooling of the PCB circuits (IGBT’s). Failure to apply the grease on the cooling loop may result in an insufficient cooling circuit. Only use thermal grease part # 9S00859.

6. Carefully slide the board from the cooling loop. (Figure 3)

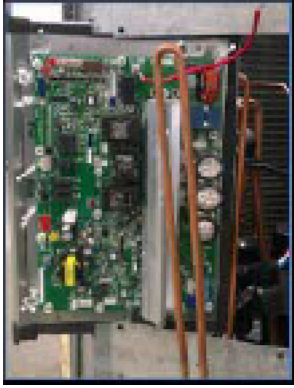


Figure 3

9. Secure the top plate with the screws. (Figure 6)

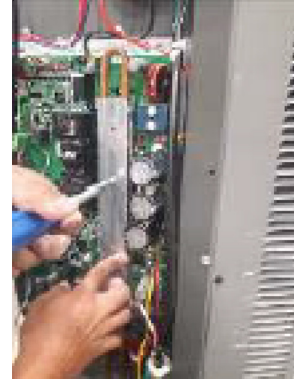


Figure 6

NOTE: Do not remove any grease from the cooling loop.

7. Before installing the new board back in place, evenly apply the thermal grease. (Figure 4)



Figure 4

NOTE: Additional Thermal grease part # 9S00859.

8. Insert the cooling loop in the metal bracket. (Figure 5)



Figure 5

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