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Supersedes 1/2026

VFD REPLACEMENT KIT

INSTALLATION INSTRUCTIONS FOR D800 SERIES VARIABLE FREQUENCY DRIVE (VFD) REPLACEMENT KITS

⚠WARNING

Improper installation, adjustment, alteration, service or maintenance can cause property damage, personal injury or loss of life. Installation and service must be performed by a licensed professional HVAC installer or equivalent, service agency, or the gas supplier.

⚠WARNING

ELECTRICAL SHOCK HAZARD.

Failure to follow instructions exactly could result in serious injury or death.

VFD HOLDS A POTENTIALLY LETHAL CHARGE UP TO 10 MINUTES AFTER POWER HAS BEEN

DISCONNECTED. Do not open VFD cover until 10 minutes AFTER power source has been disconnected and power lamp has turned off.

Read manual provided by VFD manufacturer. Carefully review and follow all safety warnings in that manual also.

⚠CAUTION

As with any mechanical equipment, contact with sharp sheet metal edges can result in personal injury. Take care while handling this equipment and wear gloves and protective clothing.

Shipping and Packing List

Package 1 of 1 contains:

1- Pre-programmed VFD (A96 or A137)

⚠WARNING

ELECTRICAL SHOCK HAZARD.

STOP! Before you continue, make sure that power to the VFD has been off for at least 10 minutes. The capacitor in the VFD holds high voltage power for up to 10 minutes after power has been disconnected.

Application

Kits are used to replace the variable frequency drive (VFD) in LG/LC/LH/LD and SG/SC series units.

⚠WARNING

To prevent serious injury or death:

1. Lock-out/tag-out before performing maintenance.
2. If system power is required (e.g., smoke detector maintenance), disable power to blower, remove fan belt where applicable, and ensure all controllers and thermostats are set to the “OFF” position before performing maintenance.
3. Always keep hands, hair, clothing, jewelry, tools, etc., away from moving parts.

TABLE 1

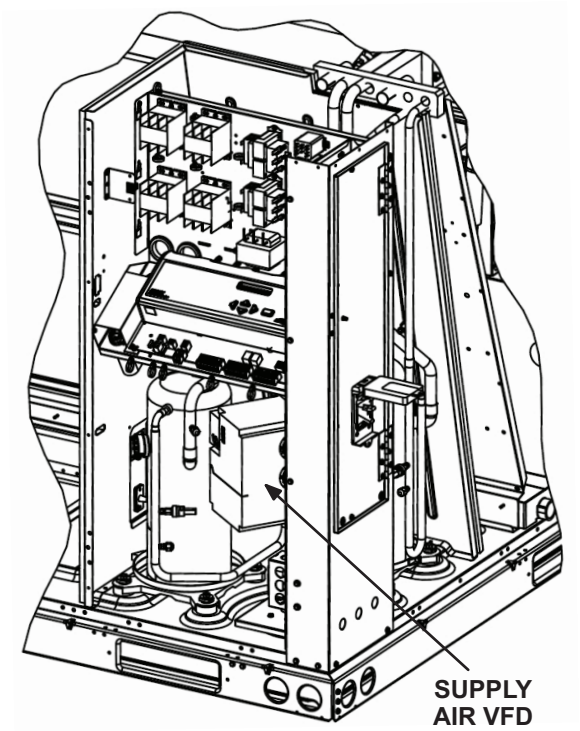
WITH MODBUS

HP Rating	Voltage	Kit Number	Catalog Number
2HP	230V	630177-01	31J82
	460V	630177-06	31J93
3HP	230V	630177-02	31J84
	460V	630177-07	31J97
5HP	230V	630177-03	31J85
	460V	630177-08	31J99
7.5HP	230V	630177-04	31J90
	460V	630177-09	31K01
10HP	230V	630177-05	31J92
	460V	630177-10	31K02

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VFD LOCATION

LC/LG/LH/LD078-152



SG/SC120

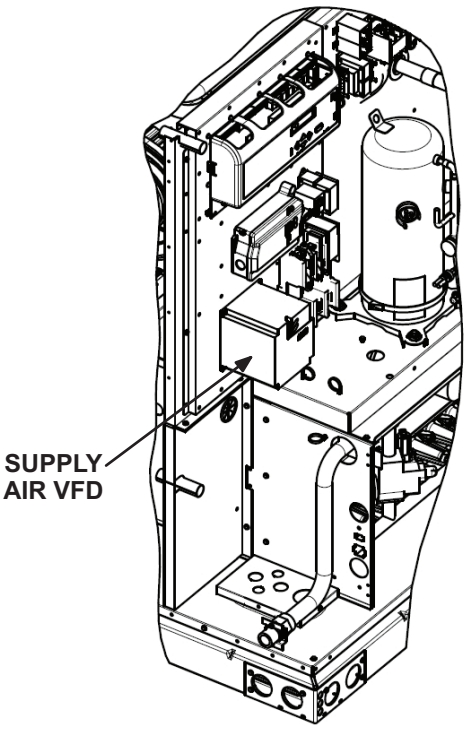


FIGURE 1

LC/LG/LH/LD 156-360, SC/SG240

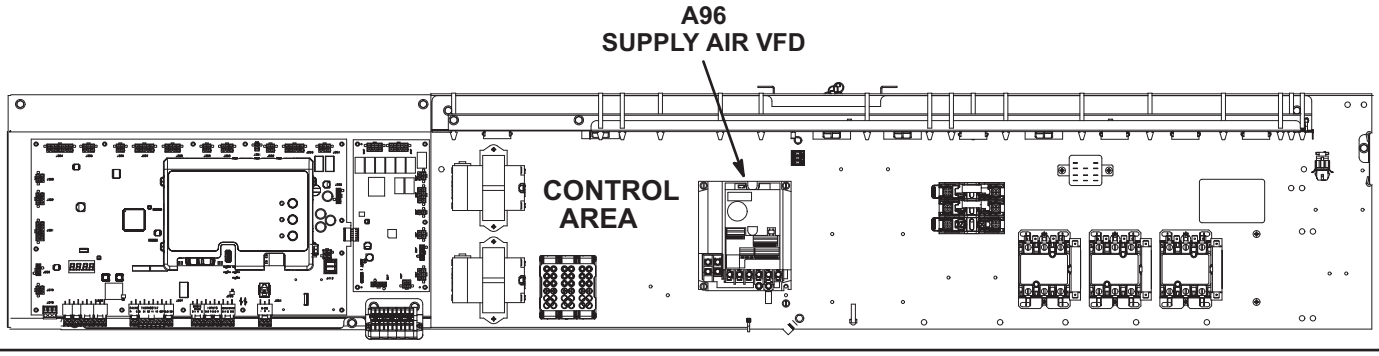


FIGURE 2

Installation With MODBUS Cable

1 - Disconnect all power to unit and WAIT AT LEAST 10 MINUTES before opening the VFD cover. See FIGURE 1 for location.

2 - Mark the wires leading to the terminal block on the bottom of the VFD with appropriate terminal name. Disconnect wires from the terminal block. See FIGURE 3.

3 - Disconnect MODBUS from VFD.

4 - Remove and retain four screws securing VFD to control panel.

5 - Install the replacement VFD and secure with retained screws.

6 - Reconnect MODBUS cable and terminal block wires.

7 - Restore power to the unit.

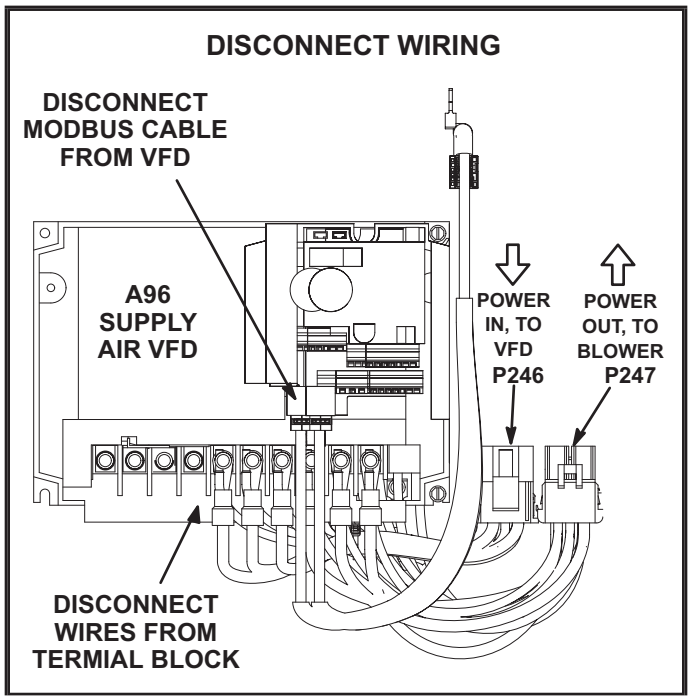


FIGURE 3

Verify Proper Operation - All Units

If the blower is not rotating in the proper direction:

1 - Disconnect all power to the unit and open the compressor / controls compartment access panel.

2 - Reverse any two power wires going from the VFD to the blower motor.

3 - Check all field wiring to the VFD. No wires should be connected to TB2-STR.

4 - Check to ensure that wiring connections are secure.

5 - Close access panel and restore power to unit.

6 - Update Configuration ID as needed.

Verify proper operation of VFD:

Refer to staged supply air blower unit start-up instructions in unit installation instructions.

NOTE - *Operate unit in the heating mode or mode which operates at the highest blower speed. Measure amp draw to blower motor between the VFD and blower motor. Verify that the amperage does not exceed the FLA value listed on the motor nameplate.*