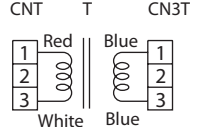
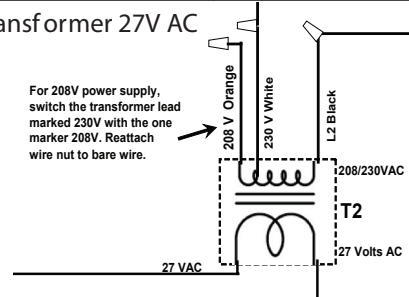
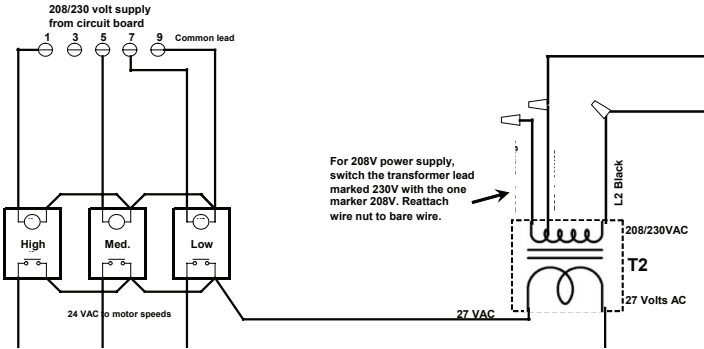
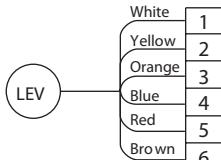


7-1. How to check the parts

Parts name	Check points														
Room temperature thermistor (TH21) Liquid pipe thermistor (TH22) Gas pipe thermistor (TH23)	Disconnect the connector, then measure the resistance using a tester. (Surrounding temperature 10°C~30°C[50°F~86°F]) <table border="1" data-bbox="446 367 950 441"> <thead> <tr> <th>Normal</th> <th>Abnormal</th> </tr> </thead> <tbody> <tr> <td>4.3k ~9.6k</td> <td>Open or short</td> </tr> </tbody> </table> (Refer to the thermistor)	Normal	Abnormal	4.3k ~9.6k	Open or short										
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Transformer 24V 	Disconnect the connector and measure the resistance using a tester. <table border="1" data-bbox="446 577 1161 693"> <thead> <tr> <th></th> <th>Normal</th> <th>Abnormal</th> </tr> </thead> <tbody> <tr> <td>CNT(1)-(3)</td> <td>App.45</td> <td rowspan="2">Open or short</td> </tr> <tr> <td>CN3T(1)-(3)</td> <td>App.1</td> </tr> </tbody> </table>		Normal	Abnormal	CNT(1)-(3)	App.45	Open or short	CN3T(1)-(3)	App.1						
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CNT(1)-(3)	App.45	Open or short													
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Transformer 27V AC 	Make sure the proper transformer lead is connected for the proper supply voltage. See diagram at left. Measure the supply voltage to the transformer. The supply voltage should be between 187 and 229 volts if the transformer is connected to a 208 volt power supply. The reading should be between 207 and 253 volts if connected to a 230 volt power supply. With the proper supply voltage, the transformer output voltage should be approximately 27 volts. If no voltage is measured, replace the transformer.														
Fan Relays 	There are 3 fan relays. One relay for each high, medium and low speed operation. The fan relays have a 208/240 V AC coil that is energized by the circuit board. The relays switch a 24 V AC circuit, which provides the speed signal for the motor. The relay energized will be determined by which speed is selected at the controller. To check operation: Make sure power to the system is on and the unit is not in standby mode. 1. Select high, medium or low speed at the controller. 2. At the corresponding relay based on the speed selected, check the voltage across the relay coil which is supplied from the circuit board. 3. If 208/230 V is measured, go on to step 4. If no voltage is measured, replace the circuit board. 4. If there is voltage present, the relay contact should be closed. 5. To check the contact. Turn power off. Remove the 24 V wires from relay contact. 6. Reapply voltage and select the fan speed. Check the continuity across the contact. If there is no continuity across the contact, replace the relay. If there is continuity across the contact, the relay is OK. Refer to the motor troubleshooting section.														
Linear expansion valve 	Disconnect the connector then measure the resistance valve using a tester. Refer to the next page for a detail. <table border="1" data-bbox="446 1711 1291 1869"> <thead> <tr> <th colspan="4">Normal</th> <th>Abnormal</th> </tr> </thead> <tbody> <tr> <td>(1)-(5) White-Red</td> <td>(2)-(6) Yellow-Brown</td> <td>(3)-(5) Orange-Red</td> <td>(4)-(6) Blue-Brown</td> <td rowspan="2">Open or short</td> </tr> <tr> <td colspan="2">150</td> <td colspan="2">10%</td> </tr> </tbody> </table>	Normal				Abnormal	(1)-(5) White-Red	(2)-(6) Yellow-Brown	(3)-(5) Orange-Red	(4)-(6) Blue-Brown	Open or short	150		10%	
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