



SERVICE MANUAL

FOR

6633 SERIES

PACKAGE AIR CONDITIONER

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1. WARNINGS

IMPORTANT NOTICE

These instructions are for the use of qualified individuals specially trained and experienced in installation of this type equipment and related system components.

Installation and service personnel are required by some states to be licensed. **PERSONS NOT QUALIFIED SHALL NOT INSTALL NOR SERVICE THIS EQUIPMENT.**

NOTE

The words "Shall" or "Must" indicate a requirement which is essential to satisfactory and safe product performance.

The words "Should" or "May" indicate a recommendation or advice which is not essential and not required but which may be useful or helpful.

WARNING - SHOCK HAZARD

To prevent the possibility of severe personal injury or equipment damage due to electrical shock, always be sure the electrical power source to the appliance is disconnected before performing service.

CAREFULLY FOLLOW ALL INSTRUCTIONS AND WARNINGS IN THIS BOOKLET TO AVOID DAMAGE TO THE EQUIPMENT, PERSONAL INJURY OR FIRE.

WARNING

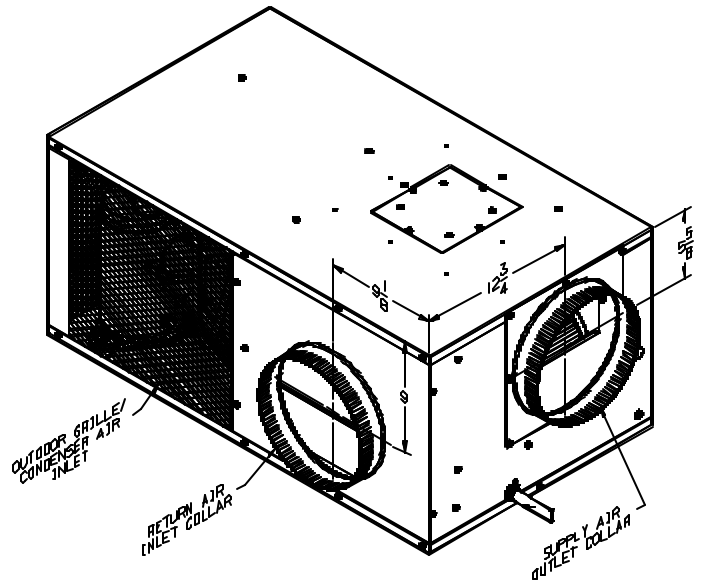
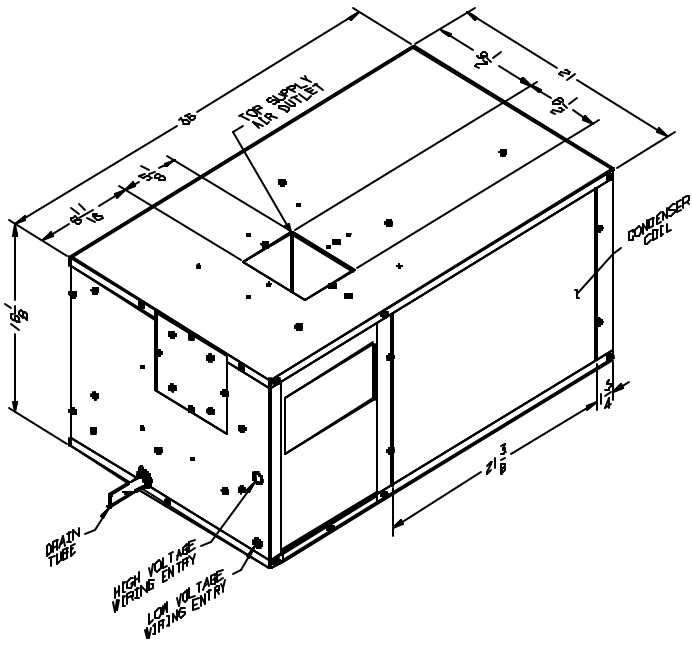
Improper installation may damage equipment, can create a hazard and will void the warranty.

The use of components not tested in combination with these units will void the warranty, may make the equipment in violation of state codes, may create a hazard and may ruin the equipment.

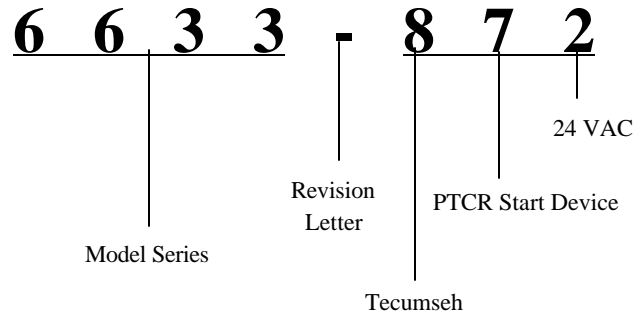
2. COMPONENT MATCH-UP



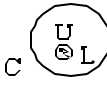


1. 6633 Series Package Air Conditioner.
2. 7330A344 or 8330A324 - 24 VAC Wall Mounted Heat/Cool Thermostat.
3. 6633-5151 Duct Adaptor Kit consists of two standard 10" dia. starting collars and two of the same each mounted to a square plate.

3. UNIT DEPICTION FIGURES



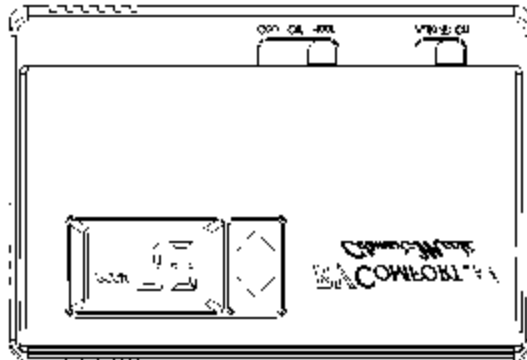
4. UNIT SPECIFICATIONS



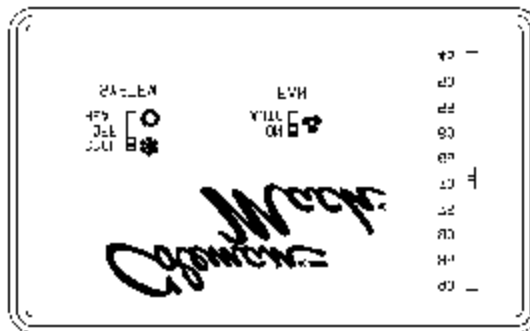
<p>6633-872 MODEL NUMBER</p>	 <p>SERIAL NUMBER</p>	 <p>TOP</p>																
<p>COMPRESSOR 1450A200 DESIGN PRESSURES LOW SIDE 150 PSIG HI SIDE 330 PSIG</p>																		
<table style="width: 100%; border: none;"> <tr> <td style="width: 60%;">MAX. OVERCURRENT PROTECTIVE DEVICE</td> <td style="text-align: right;">20 A</td> </tr> <tr> <td>MIN. CIRCUIT AMPACITY</td> <td style="text-align: right;">20.0</td> </tr> <tr> <td>FAN MOTOR H.P.</td> <td style="text-align: right;">1.5</td> </tr> <tr> <td>BLOWER MOTOR H.P.</td> <td style="text-align: right;">115 60 2.1</td> </tr> <tr> <td>BLOWER MOTOR VOLTS HZ/AMPS</td> <td style="text-align: right;">115 60 2.4</td> </tr> <tr> <td>COMPRESSOR LRA</td> <td style="text-align: right;">67</td> </tr> <tr> <td>COMPRESSOR VOLTS HZ RLA</td> <td style="text-align: right;">115 60 11.3</td> </tr> <tr> <td>R-22 CHARGE WEIGHT (OZS)</td> <td style="text-align: right;">24.0</td> </tr> </table>			MAX. OVERCURRENT PROTECTIVE DEVICE	20 A	MIN. CIRCUIT AMPACITY	20.0	FAN MOTOR H.P.	1.5	BLOWER MOTOR H.P.	115 60 2.1	BLOWER MOTOR VOLTS HZ/AMPS	115 60 2.4	COMPRESSOR LRA	67	COMPRESSOR VOLTS HZ RLA	115 60 11.3	R-22 CHARGE WEIGHT (OZS)	24.0
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<p>LISTED SPECIAL PURPOSE AIR CONDITIONER 5K09</p>																		
  <p style="margin-left: 150px;">6633-120</p>																		
<p>RECREATION VEHICLE PRODUCTS DIVISION OF AIRXCEL, INC WICHITA, KANSAS</p>																		
<p>6633-872 MODEL NUMBER</p>	 <p>SERIAL NUMBER</p>																	

5. THERMOSTAT SPECIFICATIONS

8330A324 24 VAC WALL THERMOSTAT



7330A344 24 VAC WALL THERMOSTAT



THERMOSTAT OPERATION

<input checked="" type="checkbox"/> SHOWS POSITION OF SWITCH					THERMOSTAT OPERATION
SYSTEM			FAN		
HEAT	OFF	COOL	AUTO	ON	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Operation of all components is stopped
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Cooling fan runs continuously. No compressor operation.
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cooling blower and compressor cycle with thermostat.
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Cooling blower operates continuously. Compressor cycles with thermostat.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cooling blower operates continuously at high speed. Compressor cycles with thermostat.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Heating system cycles from thermostat. Cooling fan operates continuously.

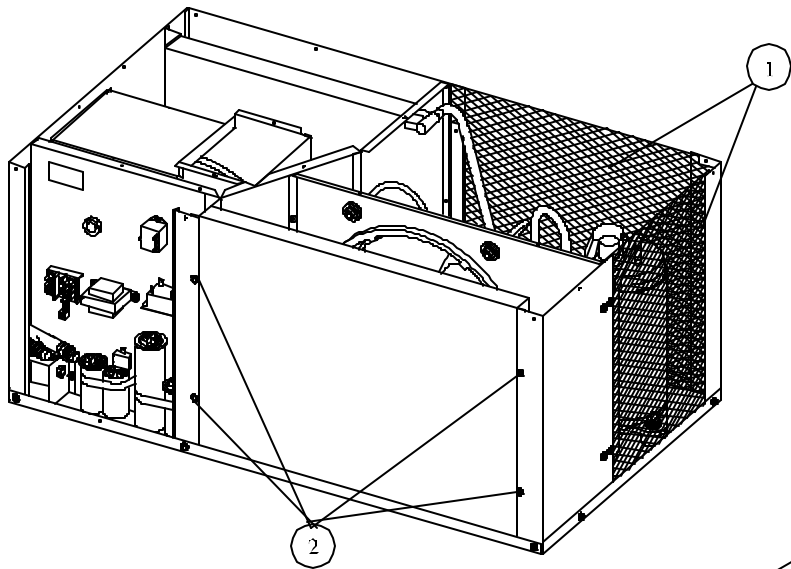


FIGURE 1

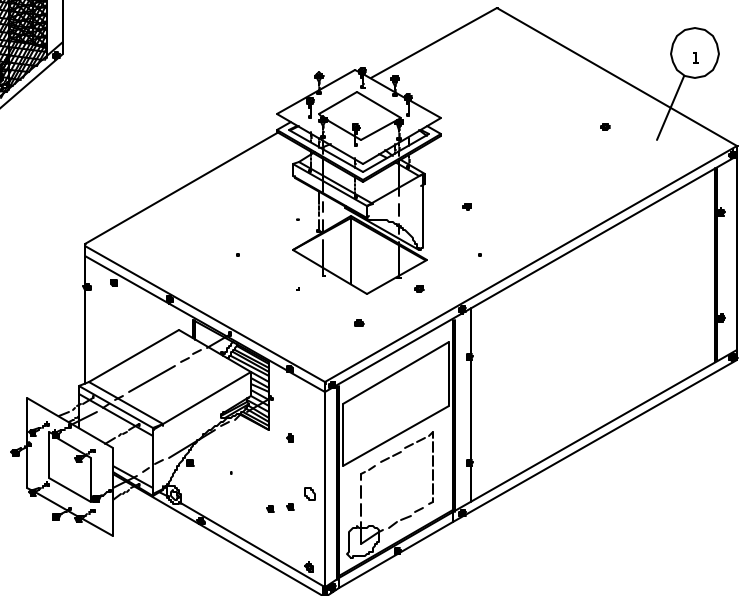


FIGURE 2

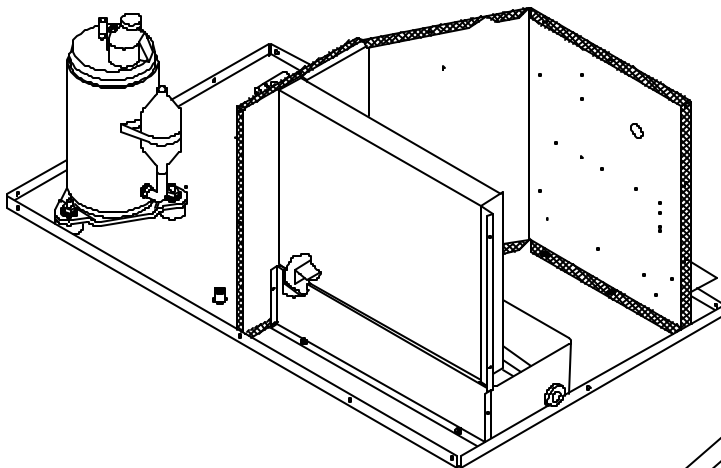


FIGURE 3

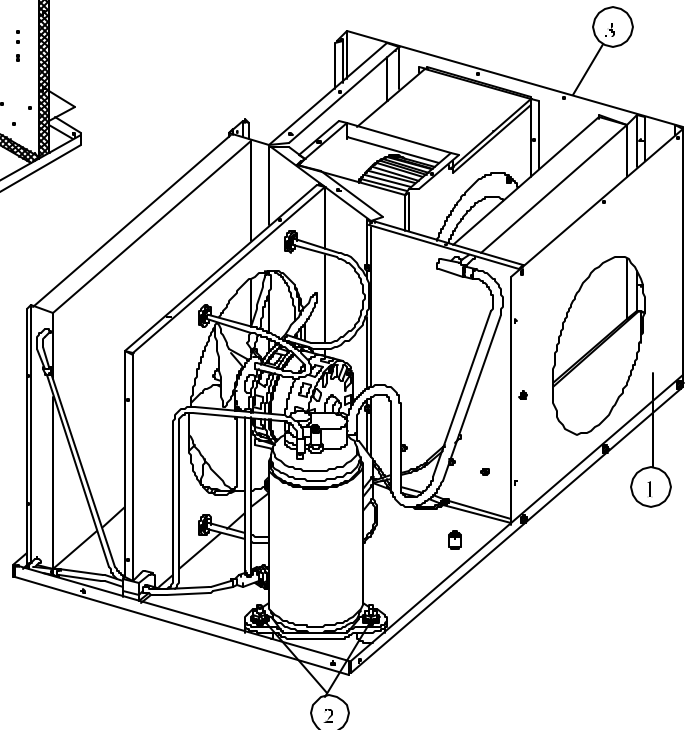


FIGURE 4

6. INDOOR BLOWER REMOVAL

1. Remove top. See Figure 2, #1.
 2. Remove four screws from blower end panel. See Figure 4, #3.
 3. Disconnect wiring from motor terminal block and capacitor.
 4. Remove four (4) screws from venturi ring. See Figure 5, #1.
 5. Remove three (3) screws from motor mount bracket. See Figure 5, #2.
 6. Remove motor assembly from scroll.
 7. Remove blower wheel and motor mounting bracket.
- Note: Upon reassembly, the references made on the figure shall be used in reverse for proper reassembly.

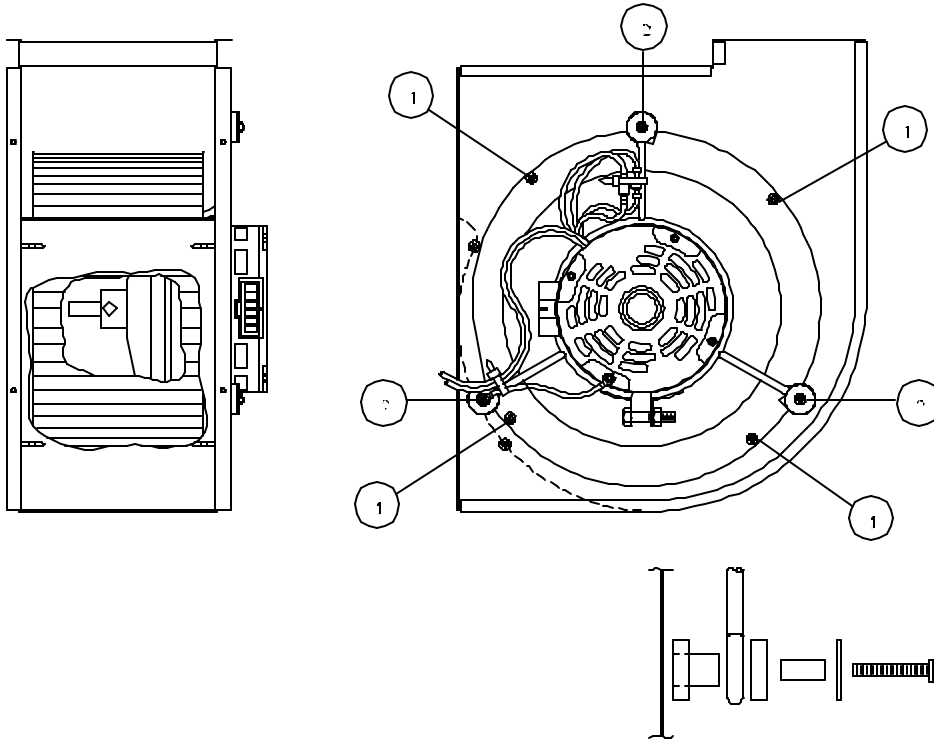


FIGURE 5

7. OUTDOOR FAN MOTOR REMOVAL

1. Turn power off to unit.
2. Un-wire motor in electrical component box making sure to mark where the wires go.
3. Pull wires back to motor and undo wire ties to mounting frame.
4. Loosen motor mount clamp. See Figure 6, #2.
5. Loosen top two (2) motor mount legs to ease tension on the motor. See Figure 6, #1.
6. Loosen fan blade set screw and remove fan blade. See Figure 6, #3.
7. Motor should slide out of frame.
8. Reassemble in reverse order. Make sure you lube motor shaft for fan blade and wire tie the wires to mount legs.
9. Rotation wires must be connected Yellow to Yellow and Orange to Orange.

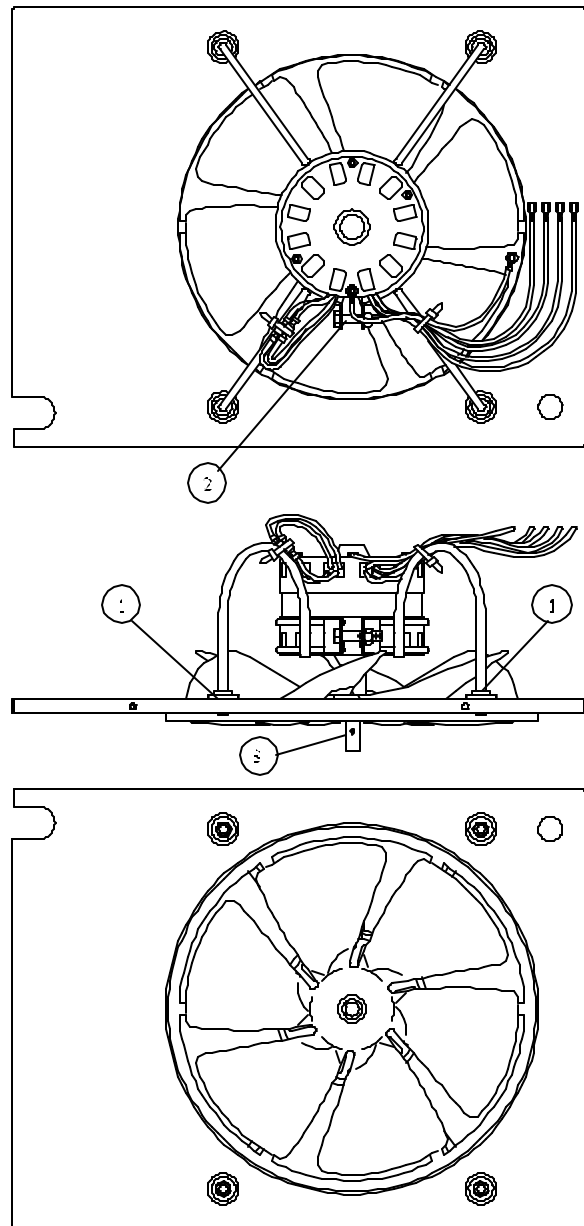


FIGURE 6

8. INDOOR COIL REPLACEMENT

1. Remove top panel. See Figure 2, #1.
10. Remove return air panel. See Figure 4, #1.
11. Be sure the refrigerant charge has been removed.
12. Unbrazed discharge and liquid lines at the coil.
13. Remove screws holding evaporator to blower housing. Evaporator can now be removed.

9. OUTDOOR COIL REPLACEMENT

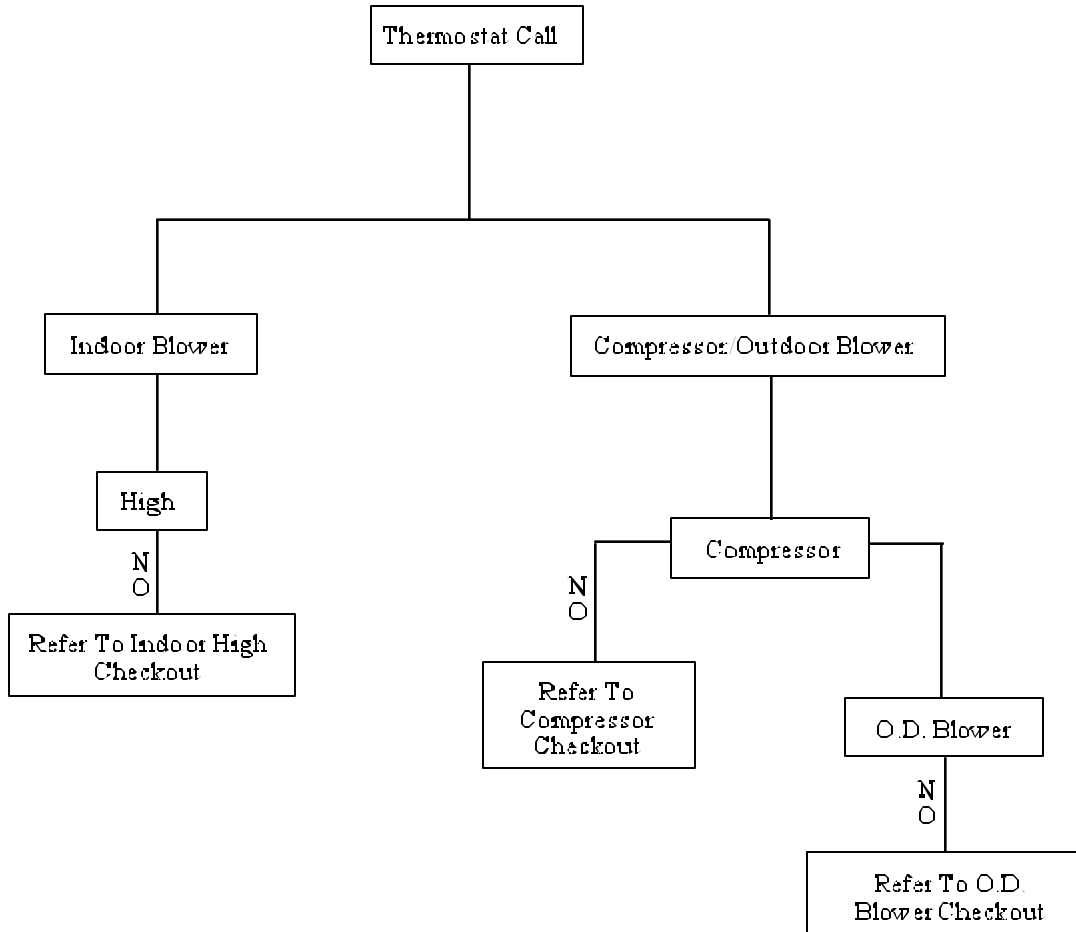
1. Remove top panel. See Figure 2, #1.
2. Remove screen around compressor. See Figure 1, #1.
3. Be sure at this point, the refrigerant charge has been removed.
4. Unbrazed discharge and liquid lines.
5. Remove screws (Figure 1, #2) holding condenser to unit. You should now be able to remove condenser.

10. COMPRESSOR REPLACEMENT

1. Remove top panel. See Figure 2, #1.
2. Remove screen around compressor compartment. See Figure 1, #1.
3. Remove electrical wiring from top of compressor. Make sure to mark the wires.
4. Remove refrigerant charge.
5. Unbrazed suction and discharge lines.
6. Remove mounting nuts. See Figure 4, #2.
7. Remove compressor from unit.

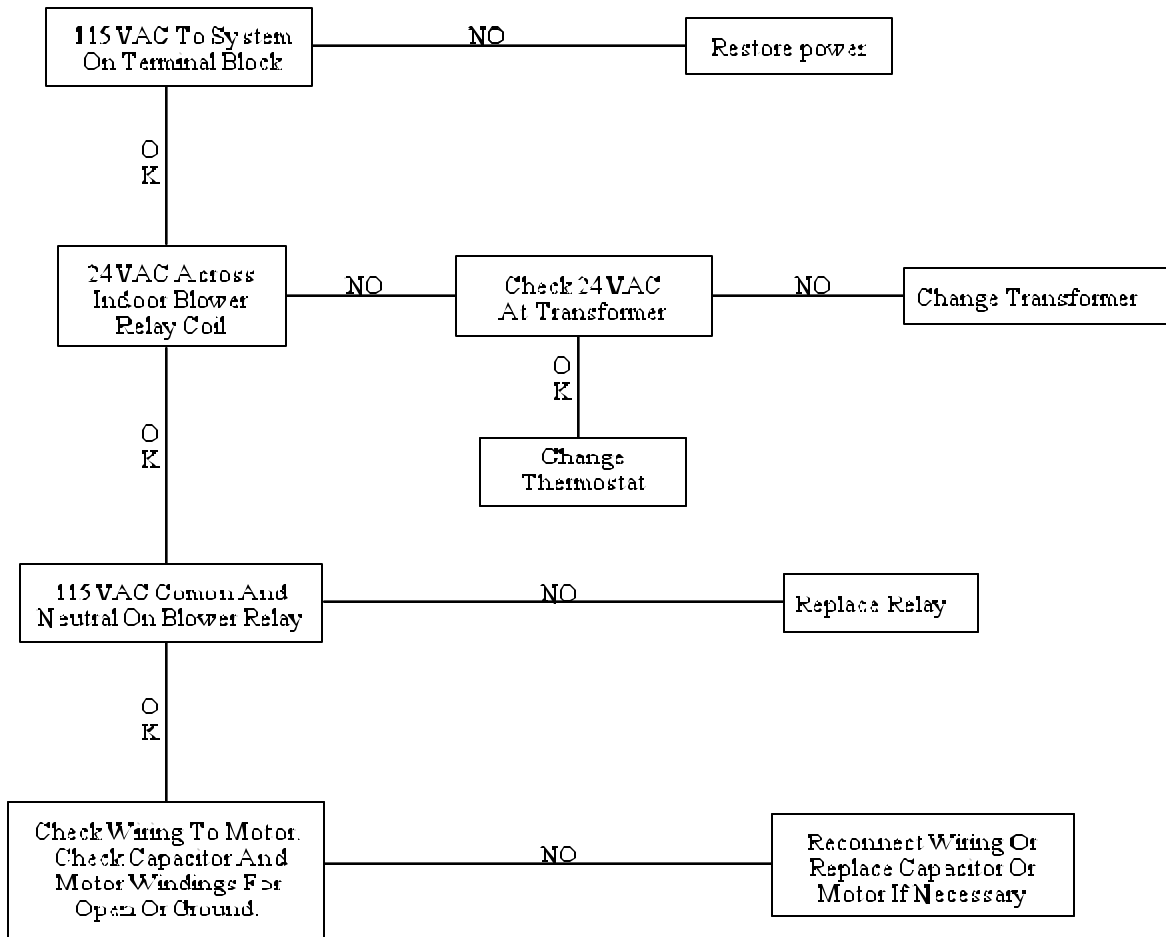
11. ELECTRICAL FLOW CHARTS

6633 SERIES OPERATION SEQUENCE



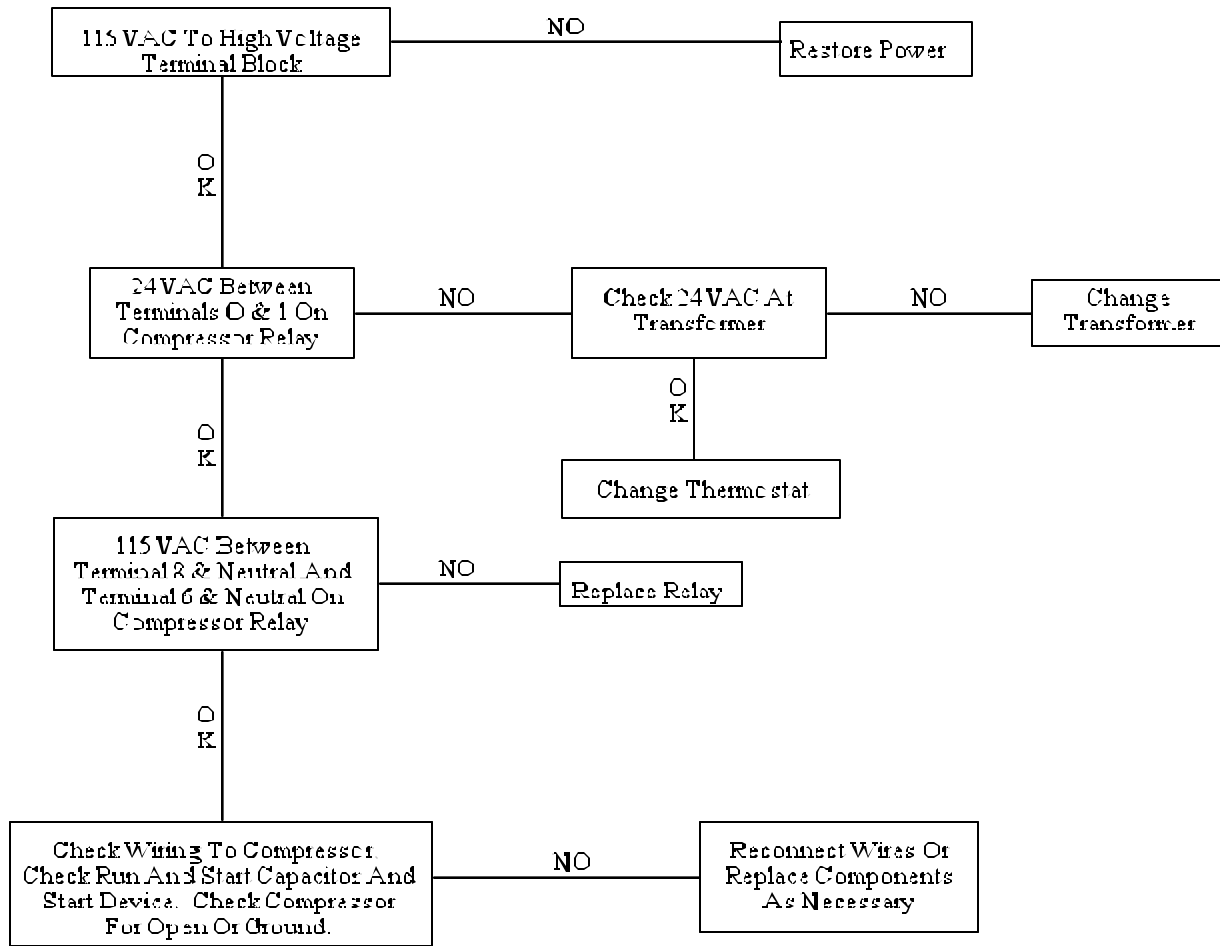
I.D. BLOWER HIGH SPEED

THERMOSTAT ON FAN AND COOL ONLY



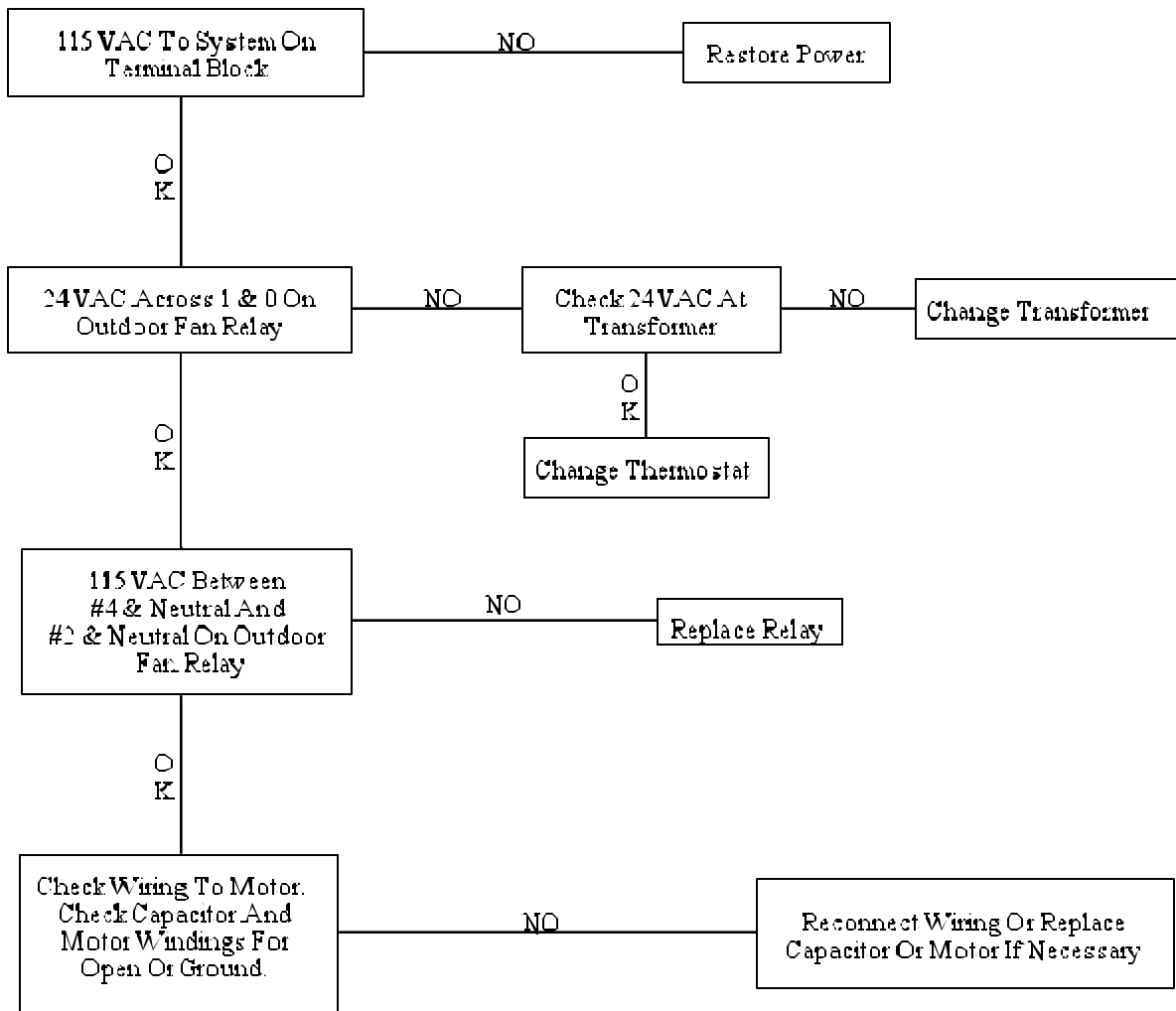
COMPRESSOR CHECKOUT

THERMOSTAT CALLING FOR COMPRESSOR



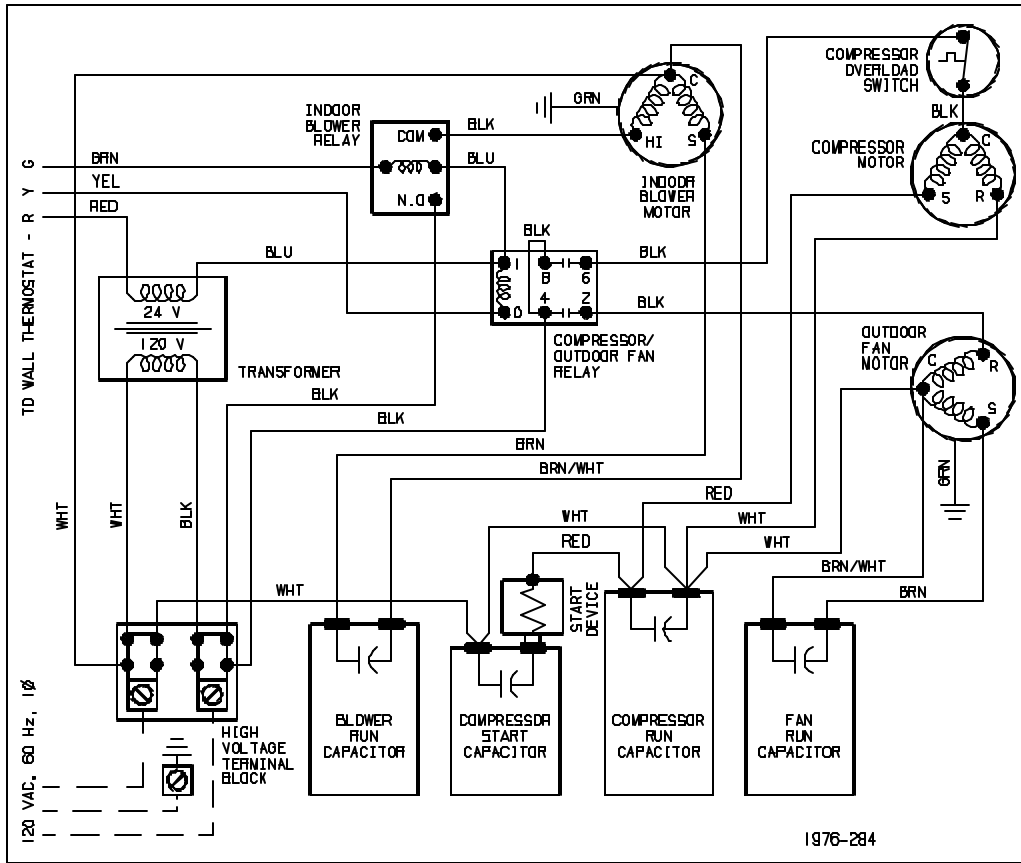
CHECKOUT OUTDOOR BLOWER

COOLING



12. WIRING DIAGRAM

Diagram 1976-284





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