



SERVICE MANUAL

FOR

6633 SERIES

PACKAGE AIR CONDITIONER

TABLE OF CONTENTS

1.	Warnings	3
2.	Component Match-Up	3
3.	Unit Depiction Figures	4
4.	Unit Specifications	5
5.	Thermostat Specifications	6
6.	Indoor Blower Removal	8
7.	Outdoor Fan Motor Removal	9
8.	Indoor Coil Replacement	10
9.	Outdoor Coil Replacement	10
10.	Compressor Replacement	10
11.	Electrical Flow Charts	11
12.	Wiring Diagram	15

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

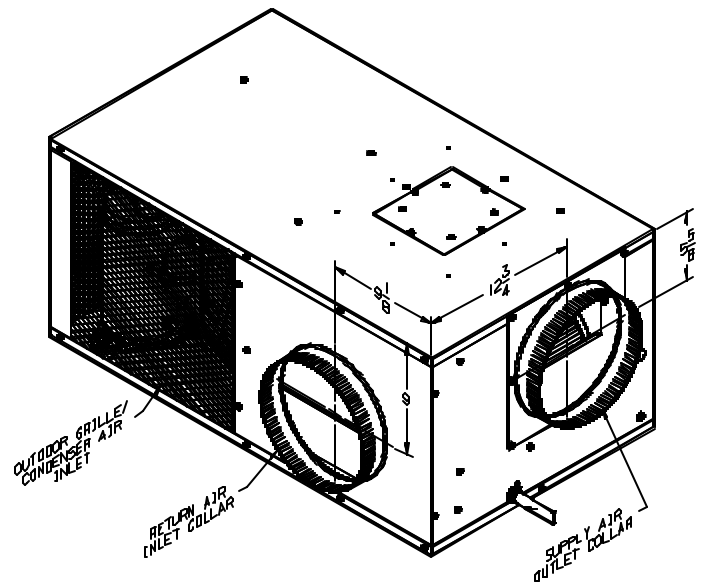
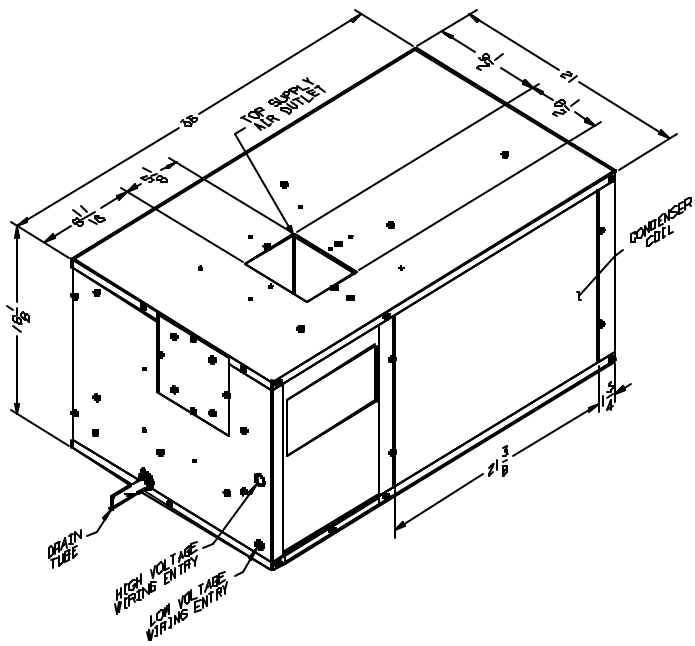
Improper installation may damage equipment, can create a hazard and will void the warranty.

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.

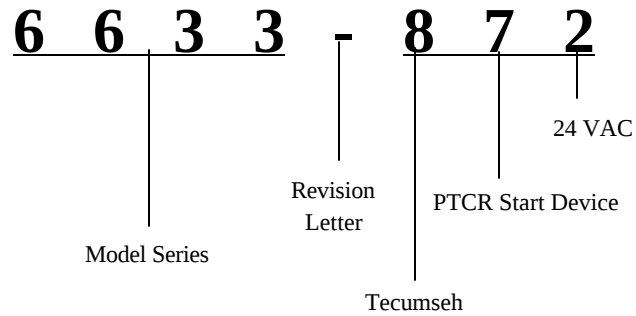
2. COMPONENT MATCH-UP

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

3. UNIT DEPICTION FIGURES



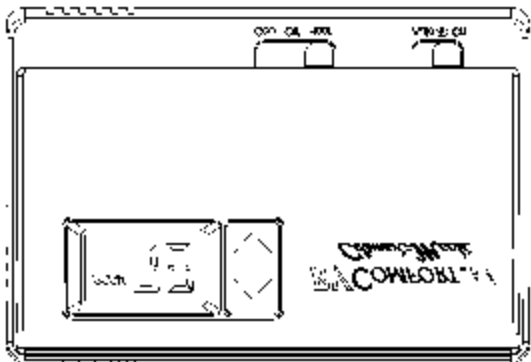
4. UNIT SPECIFICATIONS



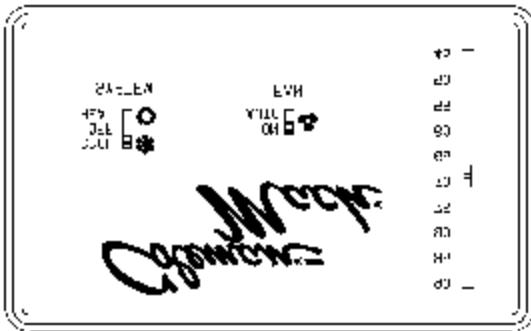
6633-872					
MODEL NUMBER		SERIAL NUMBER		TOP	
COMPRESSOR 1450A200					
DESIGN PRESSURES LOW SIDE 150 PSIG HI SIDE 330 PSIG					
MAX. OVERCURRENT PROTECTIVE DEVICE		20 A			
MIN. CIRCUIT CAPACITY		20.0			
FAN MOTOR H.P.		1.5			
BLOWER MOTOR H.P.		115/60/2.1			
BLOWER MOTOR VOLTS HZ/AMPS		115/60/2.4			
COMPRESSOR LRA		67			
COMPRESSOR VOLTS HZ/RLA		115/60/11.3			
R-22 CHARGE WEIGHT (OZS)		24.0			
WARNING		AVIS			
DISCONNECT POWER SUPPLY		COUPEZ LE COURANT AVANT			
BEFORE REMOVAL OF COVER.		D'ENLEVER LE COUVERCLE.			
LISTED SPECIAL PURPOSE					
AIR CONDITIONER					
SK09					
				6633-120	
RECREATION VEHICLE PRODUCTS					
DIVISION OF AIRXCEL, INC					
WICHITA, KANSAS					
6633-872					
MODEL NUMBER		SERIAL NUMBER			

5. THERMOSTAT SPECIFICATIONS

8330A324
24 VAC WALL THERMOSTAT



7330A344
24 VAC WALL THERMOSTAT



THERMOSTAT OPERATION

SYSTEM			FAN		THERMOSTAT OPERATION
HEAT	OFF	COOL	AUTO	ON	
☐	☒	☐	☒	☐	Operation of all components is stopped
☐	☒	☐	☐	☒	Cooling fan runs continuously. No compressor operation.
☐	☐	☒	☒	☐	Cooling blower and compressor cycle with thermostat.
☐	☐	☒	☐	☒	Cooling blower operates continuously. Compressor cycles with thermostat.
☒	☐	☐	☒	☐	Cooling blower operates continuously at high speed. Compressor cycles with thermostat.
☒	☐	☐	☐	☒	Heating system cycles from thermostat. Cooling fan operates continuously.

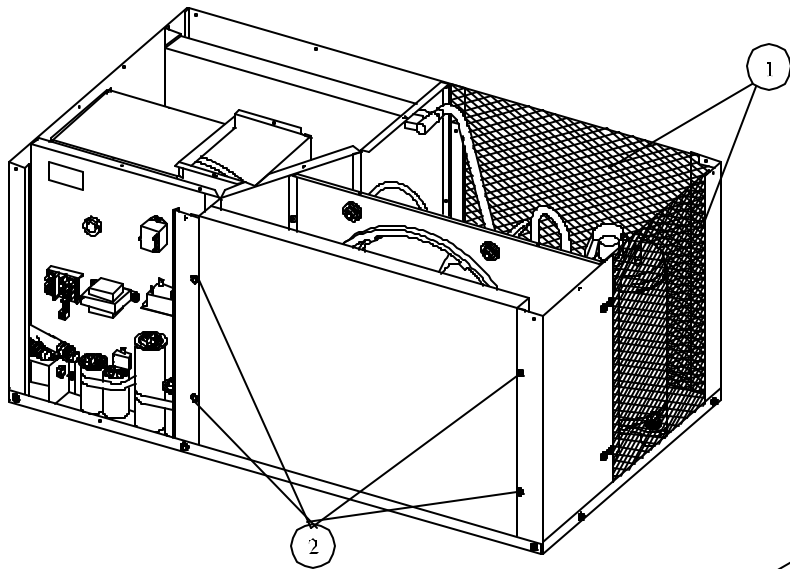


FIGURE 1

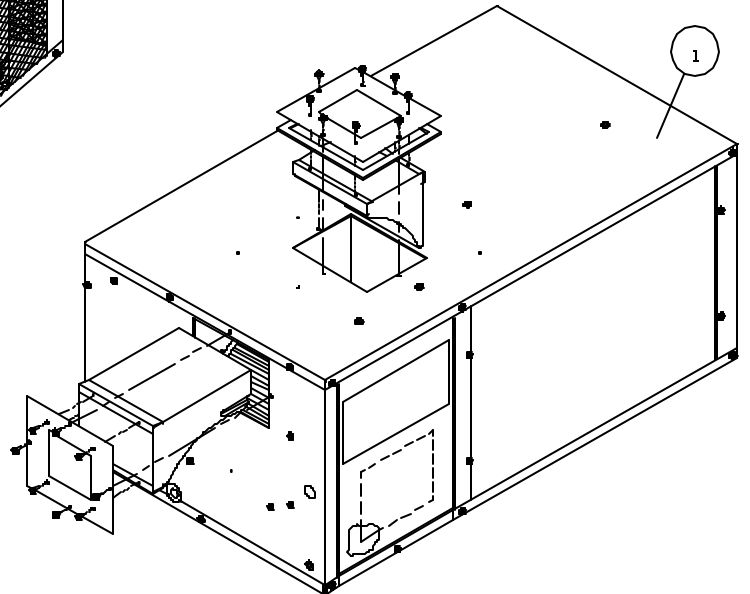


FIGURE 2

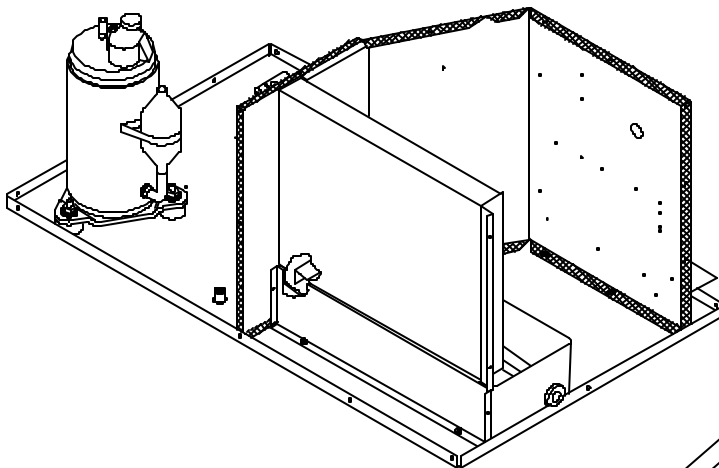


FIGURE 3

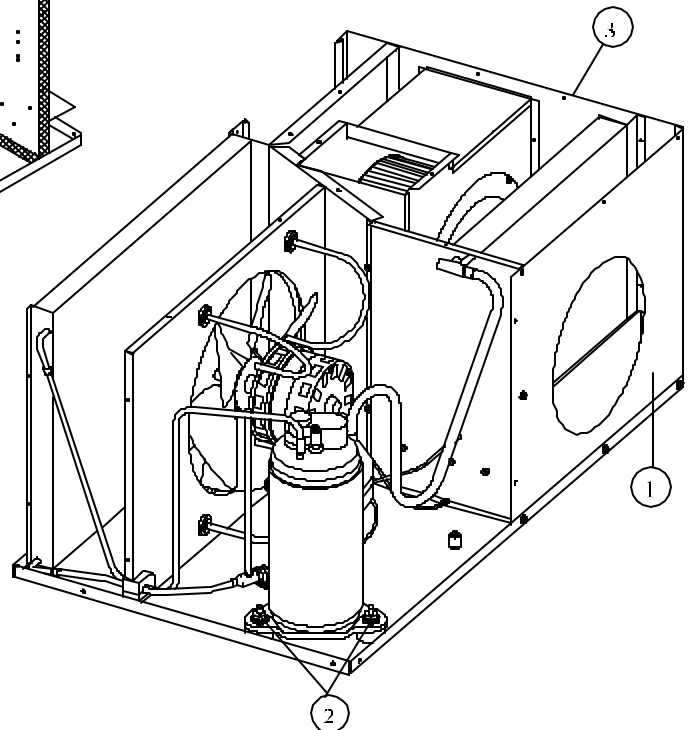


FIGURE 4

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.

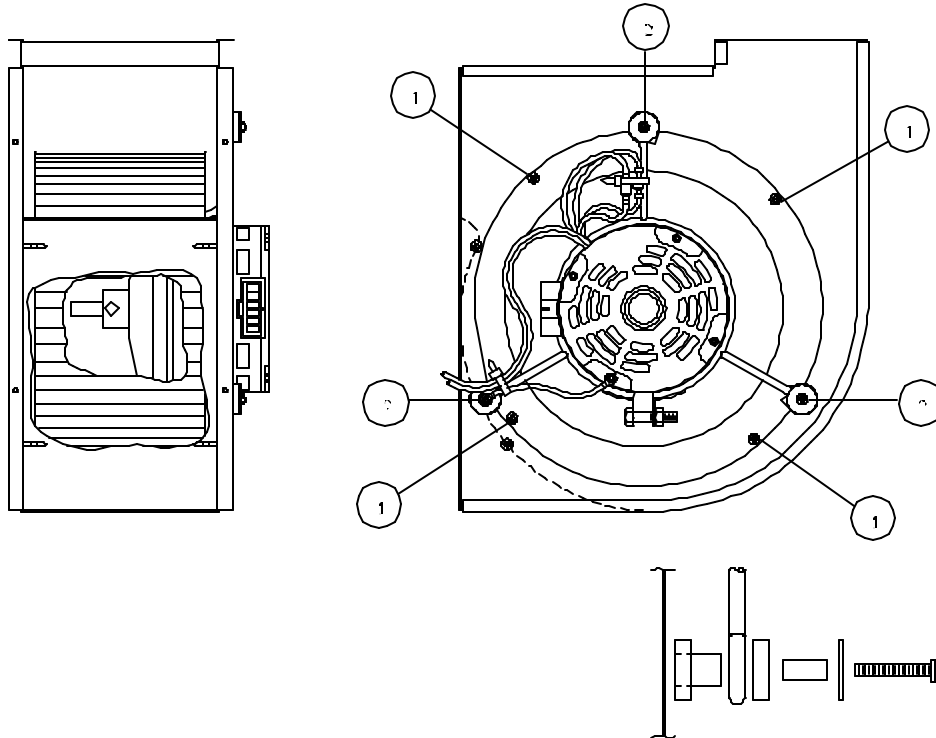


FIGURE 5

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.

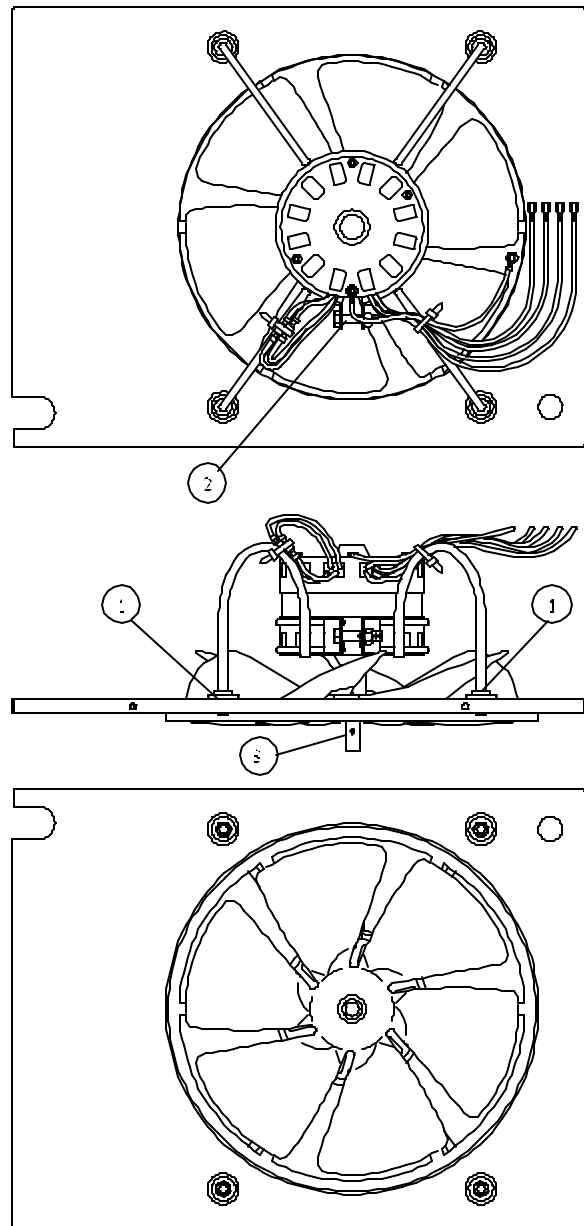


FIGURE 6

8. INDOOR COIL REPLACEMENT

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

9. OUTDOOR COIL REPLACEMENT

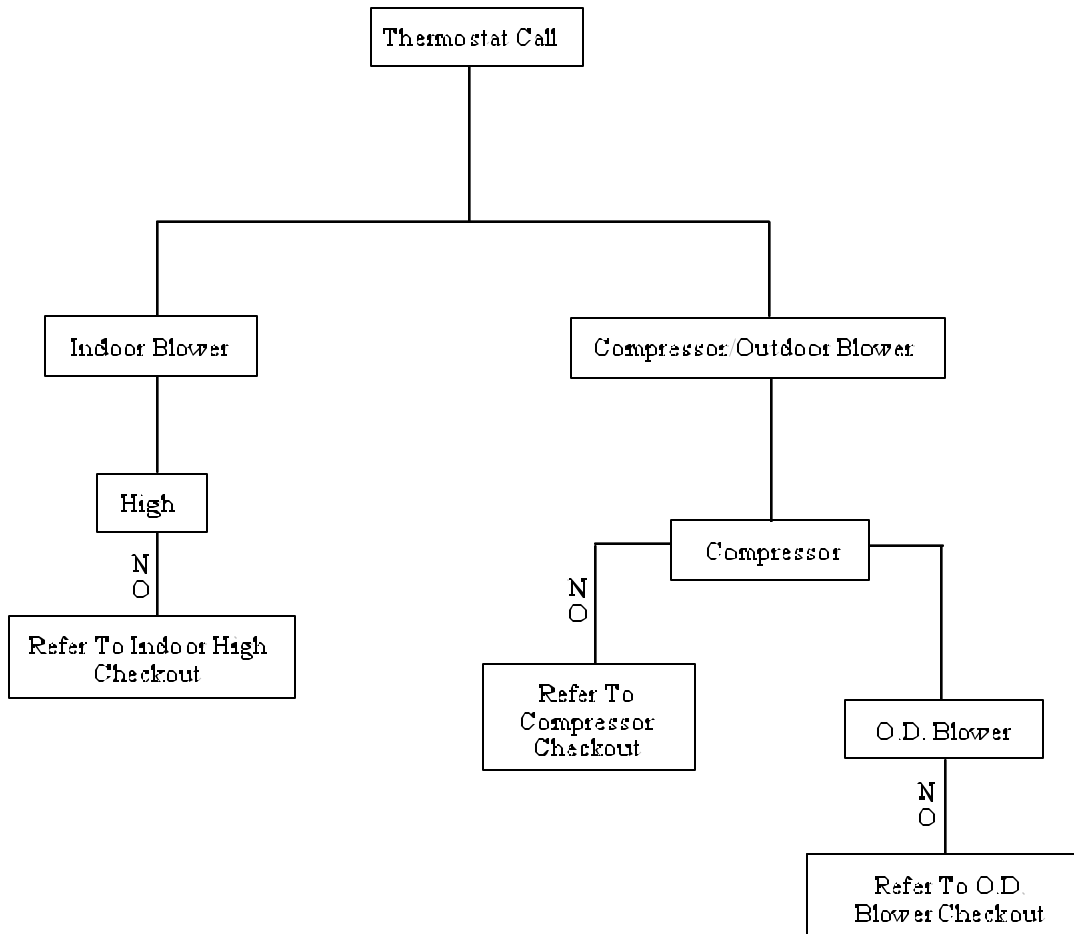
- | | | | |
|----|---|----|---|
| 1. | Remove top panel. See Figure 2, #1. | 4. | Unbraid discharge and liquid lines. |
| 2. | Remove screen around compressor. See Figure 1, #1. | 5. | Remove screws (Figure 1, #2) holding condenser to unit. You should now be able to remove condenser. |
| 3. | Be sure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

10. COMPRESSOR REPLACEMENT

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

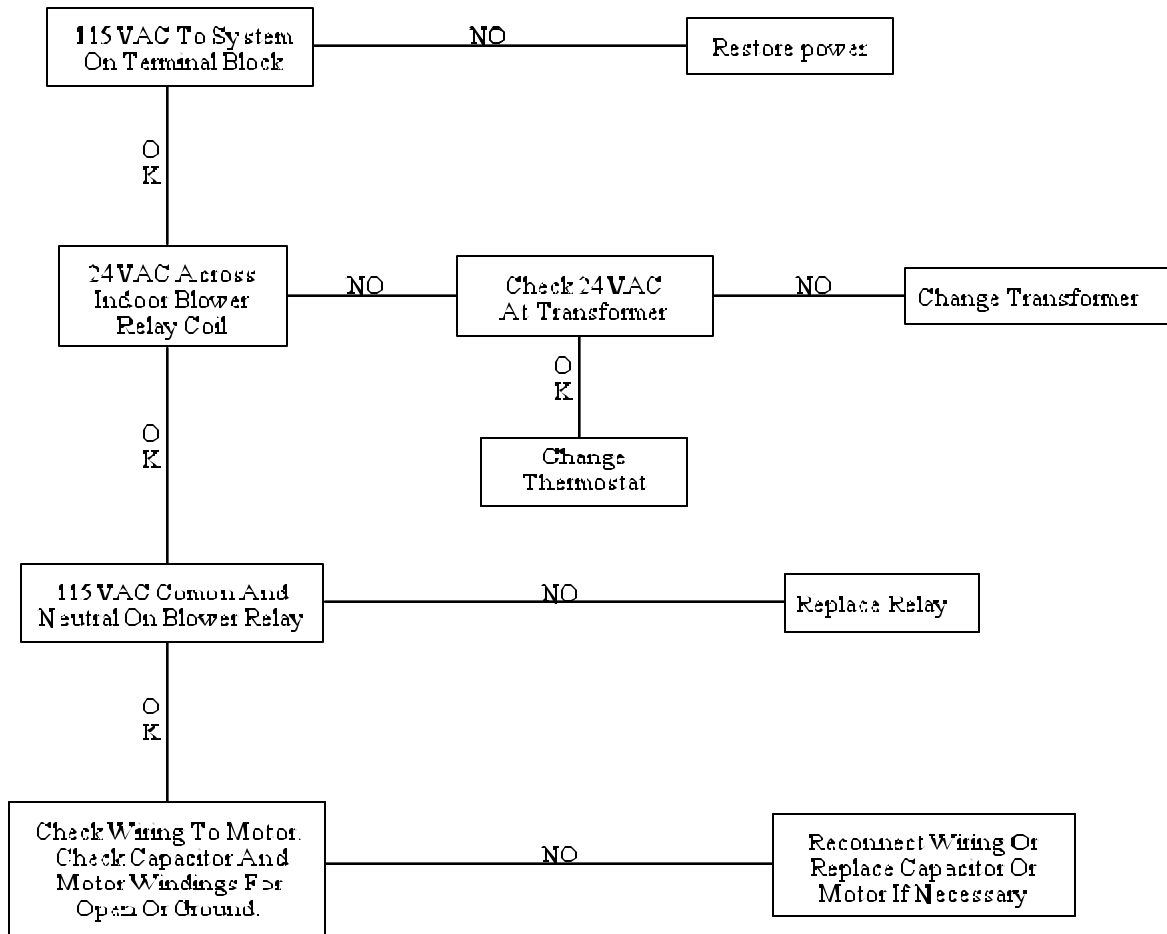
11. ELECTRICAL FLOW CHARTS

6633 SERIES OPERATION SEQUENCE



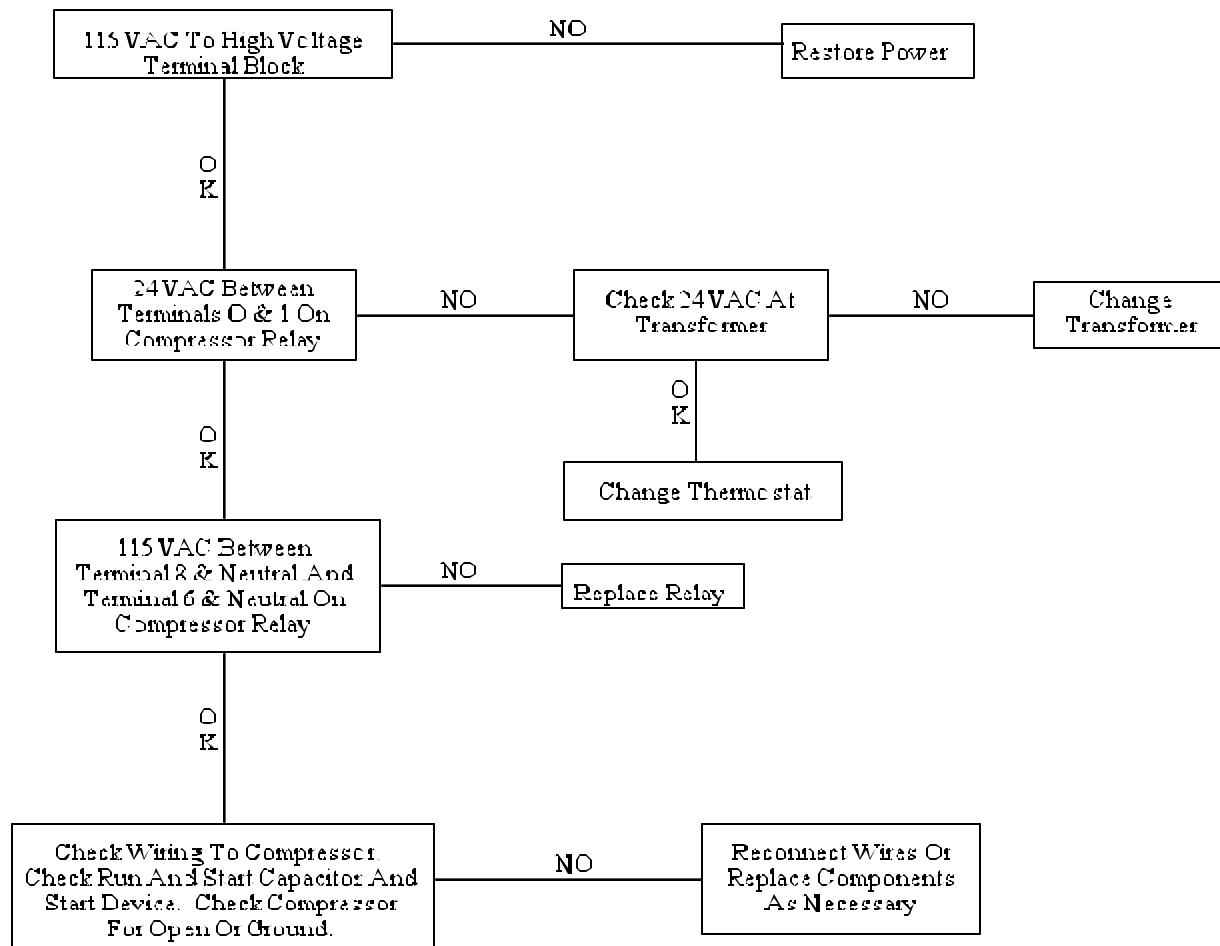
I.D. BLOWER HIGH SPEED

THERMOSTAT ON FAN AND COOL ONLY



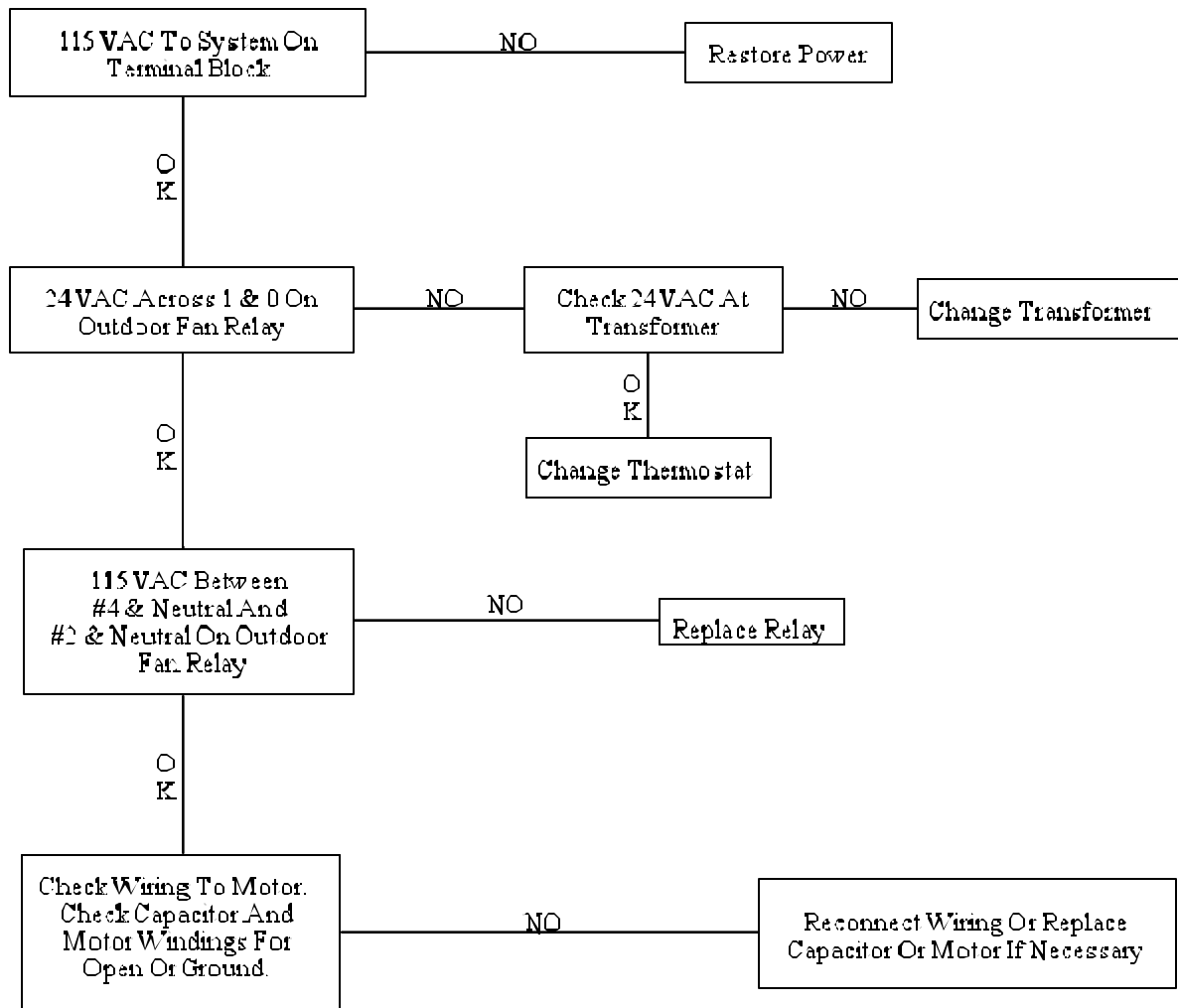
COMPRESSOR CHECKOUT

THERMOSTAT CALLING FOR COMPRESSOR



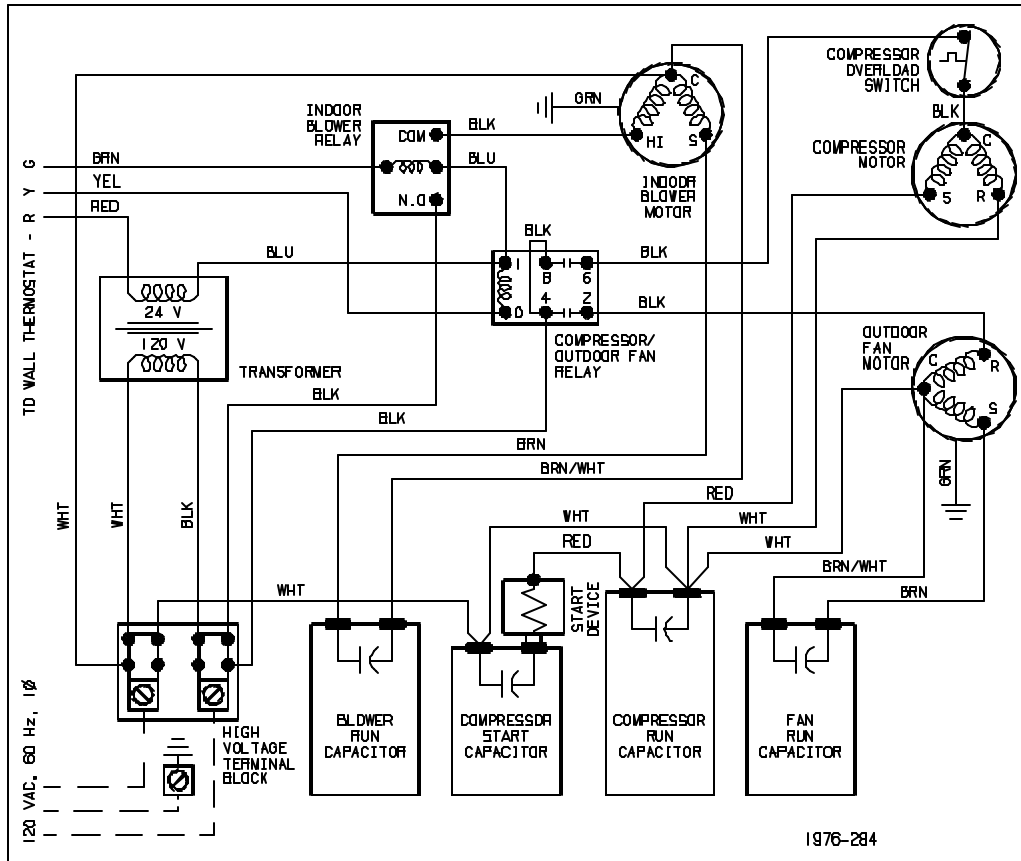
CHECKOUT OUTDOOR BLOWER

COOLING



12. WIRING DIAGRAM

Diagram 1976-284





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Follow proper safety practices. If in doubt, consult a professional RV technician.