

## Dometic Rv Air Conditioner Manual

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**File Name:** Dometic Rv Air Conditioner Manual.pdf

**Size:** 1894 KB

**Type:** PDF, ePub, eBook

**Category:** Book

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# Dometic Rv Air Conditioner Manual

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Temperature Across Coil. 33. Amp Draw. 33. Wiring. 33. Short Cycle. 40 Comfort Control. 41. Analog Control. 41. Section 9. Quick Tips Operation. AC Voltage. Breaker. Changeover Thermostat. Selector Switch. Wiring Operation. Ambient Temperature. DC Voltage. Analog Thermostat. Analog Power Module. Wiring Configuration. Operation. Cable Assembly. Ambient Sensor. Remote Temperature Sensor. Comfort Control Power Module Wiring. Mechanical Thermostat. Overload. Compressor Operation. Wiring. Comfort Control Power Module. Compressor. Comfort Control Thermostat Start Device. Start Capacitor. Run Capacitor. Compressor Mechanical Control AC Voltage. Start Device. Compressor AC Voltage. Short Cycle. Air Flow Obstruction. Thermostat Location. Comfort Control Thermostat. Compressor Selector Switch. Motor Mechanical Control Wiring. Motor. Analog Power Module Wiring. Comfort Control Power Module Selector Switch. Motor Wiring. Comfort Control Power Module Operation. Air Flow. Amp Draw Operation. Ambient temperature. Analog Cold Control. Amp Draw. Analog Power Module Operation. Comfort Control Cold Control. Comfort Control Power Module Mechanical, Analog and Comfort Control. Amp Draw Mechanical Thermostat. Change Over Thermostat. Reversing Valve Analog Thermostat. Reversing Valve Ambient Temperature Sensor. Configuration. Reversing Valve Air Flow. Mechanical Thermostat Air Flow. Thermostat Location Air Flow. Thermostat Location Mechanical Thermostat Thermostat Location. Analog Power Module Thermostat Location. Comfort Control Power Module Water Leakage The operating instructions can change from one model If not sure, Heating Operation Note This electric heater will not replace a furnace for The intent is to remove The temperature rise A. Turn the selector switch to "OPT. HEAT". B. The heater will come on and begin heating. C. When desired temperature level in RV is reached, This type of air conditioner has an air distribution box that Selector Switch. The

selector switch has eight positions including "OFF".

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This controls the fan speed, heating mode HEAT STRIP, OPTIONAL and cooling modes. Fan Operation. Thermostat This will circulate the air in your RV without cooling or A. Set the thermostat at the desired temperature level. B. Select the fan speed that best satisfies your needs Normally this is speed used for night time operation. This type of air conditioner controls can be ducted or have Note The blower runs continuously to circulate air and The compressor will come Under certain conditions, frost may form on the evaporator coil. If this should occur, inspect the filter and clean if Air conditioners have a greater tendency to MED, or HIGH FAN setting only until the cooling coil is A. Place the Temperature Set Lever to the desired temperature level located at right side of thermostat. B. Select fan speed that best satisfies your needs switch Normally this The compressor will turn ON and OFF to maintain set temperature. D. Set the System Switch to cool position located at the The air conditioner compressor will now come on when cooling is required Wait at least two 2 minutes before restarting the air This allows the On the hand this will feel cool and the Heat Pump Operation. Note The outside thermostat changeover thermostat. Furnace Operation A. Set the Temperature Set Lever to desired temperature level located on the right of thermostat. B. Set the System Switch to furnace position located The furnace will now A. Set the Temperature Set Lever located on the right of B. Set the System Switch located at the left side of thermostat to heat pump position. The compressor will If the RV is equipped Frost Prevention. Heat pumps have a tendency to frost during operation It may be necessary Special Feature. When thermostat. A. Switch is in the COOL, OFF or FURNACE position Optional Feature.

Electric Heat Strip If Unit so Equipped This type of air conditioner controls can be ducted or have The Comfort Control Center has been designed for you to easily operate all In order to familiarize you with Controls. A. Set the Temperature Set Lever located at right of B. Set the System Switch located at left side of thermostat to heat strip position. The unit's heat strip will A. Liquid Crystal Display. The Comfort Control Center is equipped with a liquid crystal display LCD that identifies the mode of operation, the When you begin to first operate the Comfort. Control Center, you will see that the LCD readout will only To determine the number of established zones in your ZONE 1 will be Move the lever from To do this, simply move the lever to the right. Crystal Display LCD is illuminated. MED, HIGH, AUTO is illuminated. If your vehicle is Repeat entire procedure for each additional zone. A. Liquid Crystal Display. B. Mode Selector. C. Fan Speed Selector. D. Temperature Selector HEAT PUMP, FURNACE, HEAT STRIP, AGS and AUX. HEAT. Remember, the LCD readout will only show the options available based on the appliances installed on your You will need to continue Center. To determine the Comfort Control Center options You will need to continue to Control Center. D. Temperature Selector Buttons. Determination of Fahrenheit Comfort Control Center. E. Zone Selector Button. A ZONE is also established at the time of installation off If you have one air conditioner, you will have one ZONE. If your vehicle has more. Comfort Control Center. A typical example of a two zone B. Cooling Mode Operation AUTO. If your vehicle is equipped with a heat pump The final selected. SETPOINT will be displayed in the LCD area of the. Comfort Control Center. Once the room temperature A. Continue to operate in the single selected fan B. Cycle OFF and ON with the compressor if the. AUTO fan speed has been selected. During the defrost cycle the hot refrigerant is sent to the outside coil to melt the frost and ice.

This also will build heat During the defrost cycle, the. DEFROST indicator on the LCD shall be illuminated. D. Furnace Mode The final selected. Comfort Control Center. Furnace operation over rides all other For cooling, change Repeat entire C. Heat Pump Operation The final selected. Comfort Control Center. Once the room temperature reaches At this point, the fan will either. A. Operate in

the single selected fan speed or. B. Cycle OFF and ON with the compressor if the. AUTO fan speed has been selected.Repeat entireE. Heat Strip ModeHEAT STRIP mode. Depress and release the FANIf your vehicleThe final selected SETPOINT will be displayed in the LCD area of the Comfort Control Center.The fan will either. A. Continue to operate in the selected fan speed or. B. Cycle OFF and ON with the heat strip if the AUTOREpeat entire procedure for each additional zone. The temperature rise across the heat strip should be. On the hand this will feelSpecial Features built into the Heat Pump Comfort. Control System. Aux. Heat. When in the HEAT PUMP mode, if the outside ambientComfort Control Center, the control will automatically select the FURNACE operation and the HEAT PUMP willHEAT PUMP indicators on the LCD will illuminate. Once. Important If vehicle is not equipped with a furnaceOFF for operation. Defrost CycleThe fan will then be shut off,In the COOL mode, which is the air conditioning mode,When that difference isIf your vehicle is equipped with a DuoTherm Heat. Pump, the fan will automatically select the fan speedWhen HEAT PUMP mode is selected, the fan will startWhen HEAT STRIP mode is selected, the fan willIn the FAN ONLY mode, the fan will start running onB. Refrigerant Compressor Time Delay. A time delay of approximately two minutes occurs anyMODE of operation for each zone independently. ToThe Comfort Control Center willFURNACE and HEAT PUMP at the same time.Important. When shore power is available, AGS must be switched to the off position.This is an energized circuit.

Shock can occurTesting is to be doneThe unit is an 115 VAC, 60 Hz appliance. The proper operating range is between 103.5 and 126.5 volts AC. TheOne test should be performed when the unit isCheck for proper AC volts at the connections at the unitsThe unit is to be protected by a time delay fuse or HACRTurn ON the unit and record the ampWith the line circuit breaker turned off, check to see if theEach air conditioner isCheck all connections for. Reference typical wiringNote Be sure to use the wiring diagram on the appliC. The switch should be checked with an Ohmmeter toThe chart shows theExample Switch is inIf the unit's compressor or fan fails to operate, chancesBe sure the powerNote Many customers use extremely long power cordsA DC volt supply is required for operation of all Dometic electronic controlled units. Clean Direct Current DCProper polarity is crucial for operation. The controls mustUsing the chassis could create erratic operation. The operating range is 10 to 16 volts DC. If DC voltages are outside of the operating range, erraticAlways check voltage with a load on. If no DC voltage is found, check the supply, wires, breakerNote No other electrical equipment or lighting should beHigh Cool. Med. Cool. Low CoolMed. Heat. Low HeatMed. Fan. Low FanIf heat strip is not installed, low heat is same asNote. Terminal locations on back of switch will vary with theUse white numbers stampedA. The electrical box needs to be dropped from the template and control box cover removed. Disconnect theThe thermostat can beC. The cooling only thermostat is adjusted so the airD. When the contact points make connection, continuity should show across the terminals. Failure to showE. The thermostat will not cycle off if the temperature isThe switch can be checked by using a voltmeter withOhmmeter and with power turned off proceed as follows. A. The air box should still be off. The electrical box needsDisconnect the wiring from the switch, beB.

There are three different selector switches used in theThey are the 10position, 8position and 5position switches. A quickImmersing the sensing bulb in ice water should causeWhen the cooling contacts make connection,For example,Failure to properly make and break the circuit indicates a defective thermostat. There are 3 different Analog thermostats being used toAir Conditioners, Air Conditioners with Heat Strips, and Air Conditioners with Heat Pumps. The type of thermostat used depends on the unit and accessories used with it. It is veryImproper Location will cause excessive temperature swings and shortNote A defective changeover thermostat can keep the. PUMP modes. B. To check the changeover thermostat, first verify theNo operation at all from the Heat Pump. Cool, FurnaceOutdoor Thermostat. Cool, FurnaceIf nothing operates on the unit, turn the System Switch to. LOW Switch to "LO". Remove the Analog ThermostatVDC into upper control board and fuse is good first. Check for voltage between the GND terminal andThe heat pumpIf unit operatesIf the

compressor is not coming on disconnect the coldKeep in mind the 59146 has anPUMP models require seven conductors. It is common forThe location of the. Comfort Control Center is very important if it is being usedLocation will cause excessiveIf any one of the volt readings is missing, check TstatIf the voltages shown above areThe thermostat provides a ground to close a relay.Two jumper wires required, low fan relay must be closed to pass voltageThe furnace should operate.GND and HI FAN and GND and COOL. The compressor should operate and high fan speed.The heat stripTo check the Comfort Control Center. Check in coming DC voltage and polarity at the main control in the upper unit at the RED positive and BLACK negative wires. Control voltage should be 10 to 16 Volts DC. Check for voltage on both sides of 3 Amp fuse at the control board.

Check the output voltage at the thermostat by using theThe cable is provided at timeTo check DC voltage at the thermostat, remove fromDC input can be checked. Black. Red. Green. Yellow. If voltage at control board and control voltage at TStat, doB. Simultaneously depress and hold the MODE andEE appears when the buttons released, do the resetC. When a dip switch is turned on or off after initial configuration, a system reset will need to be done beforeThere are no repairs toPin 1. RJ116C4P Connector. Flat Four Conductor Cable. If the following items test OK change the Thermostat. A. DC volts correct at control board and thermostat. B. No other DC appliances hooked to DC power wiresTry a different DC power sourceD. Control board, temperature sensors freezeremoteambient UNPLUGGED test OK. E. Cable assembly test OK. F. Total cable runs not longer than 75 foot total. G. Configuration correct.The Analog Control Box comes in 3 different configurations that are not interchangeable. The Analog Control. Board consists of several relays, plug receptacles andShock can occurTesting is to be doneA flat control cable must be routed from the unit to the. It must be 26 gauge, strandedNote Do not use a premade telephone extension cable. The order of the connectors is reversed and will cause aBoth ends of the harness should beAir ConditioningUsing a 120 volt. AC incandescent Bulb, check from terminal 5 whitecommon to the other terminals to determine if a particularWhen the thermostat calls for that function and the CircuitThis is an energized circuit. Shock can occurTesting is to be doneUsing a 115 volt. AC incandescent bulb, check from terminal 5 whitecommon to the other terminals to determine if a particularTerminalIf the compressor is not coming on disconnect the coldNote DO NOT use a voltmeter to do these checks as itFurnace. To verify circuits are being complete by the Analog control. Temperature Set Lever to maximum temperature level. Before condemning the control.

Note DO NOT use a voltmeter to do these checks as itIf the circuit is completedThe 4 buttonThe AC power module board consists of a relay, dipIf any one of these are defective the complete AC. Control Box some models only AC power module mustAir Conditioners with Heat Strip. This is an energized circuit. Shock can occurTesting is to be doneControlling the compressor and fan speeds same as before. To verify heat strip operation disconnect the 3 pinIf the circuitNote DO NOT use a voltmeter to do these checks as itIf the circuit is completed and a component is not operating, the problem is in the heat strip. Shock can occurTesting is to be doneHeat Pump Power Module. The way the Comfort Control knows it is a heat pump itIf there is nothing in the red connector the system will operate in the heat mode when theThe operation of the AC control box can be checked at the 6pinDisconnect the unit andTerminalWhen the thermostat calls for that function and the Circuit is completed the light will illuminate. Using a 120 volt AC incandescent Bulb, check from terminal 5 whitecommon to the other terminals to determineControl Box. When the thermostat calls for that functionDisconnect the unit and use a 115If the circuit is completed the light bulb will illuminate. Note Do not use a voltmeter to do the above tests as itIf the circuit is completed toIf the compressorTerminalIf the circuit is completed the light bulb will illuminate. To verify HEAT STRIP operation disconnect the 3 pinIf the circuitNote Do not use a voltmeter to do the above tests asIf the circuit is competedFurnace Blue Wires. In furnace mode there should be continuity between theA remote temperature sensorBlue and Yellow wires test the same as AC controlThis is an energized circuit. Shock can occurTesting is to be doneIt should be checked in two differentTurn the air



conditioner circuit breaker to "OFF". Disconnect the PTCR from the circuit. Check for continuity. If there is no continuity, replace. PTCR.

The second check to take is an amperage reading. Clamp an ammeter around the wire from the PTCR to. Turn the air conditioner circuit. If there is no reading, Yellow Wires Load Shed. If the load shed option is to be used, wires must be run. DuoTherm Air Conditioners and Heat Pumps use three. This is an energized circuit. Shock can occur. Testing is to be done. The run capacitor should be checked with a capacitor tester. Follow the tester manufacturer's testing procedures. If the run capacitor. Using an AC voltmeter set. After discharging the capacitor, disconnect the wires to the capacitor. Set the VOM. The reading should rapidly move. If there is. The combination run capacitor has three terminals. The terminals are marked "F.", "C" and "HERM". To check. Again, make sure you test from "C" common to "F." Fan and "C" common to "HERM" compressor. Always replace with the same microfarad rating. Shock can occur. Testing is to be done. The start relay or potential relay has a coil with very high. The increased voltage is generated by the rotor turning in the winding of the. When power is applied to the. To check the start relay, put an amp meter around one of. When the power is applied to. If the meter did not. When there are bad. When the amp meter shows a continuous current. This condition can also cause start capacitor failure. It is. When you replace a. Note Low voltage will shorten the life of the PTCR and. The start capacitor must be manually discharged. Using. Set the VOM meter to the highest ohm scale and. The reading. On capacitors with a 15,000 Ohm. This is an energized circuit. Shock can occur. Testing is to be done. To determine if a motor is good, test the windings with. Disconnect the motor. Infinity or no continuity. Check for continuity between the motor frame and each. The motor can be tested. On Models 6204XX.XXX, 6205XX.XXX, 6206XX.XXX, On these units, disconnect the. This is an energized circuit. Shock can occur. Testing is to be done. This is an energized circuit.

Shock can occur. Testing is to be done. To diagnose the heat strip, turn. Unplug the heater. If you have an open limit switch, The temperature rise across the heat strip should. On the hand this will feel cool and the. Be sure to disconnect all power and turn all switches to. Make note of the positions so. Scrape the compressor casing to bare metal and check continuity from each. If continuity is found to the casing. If there is no continuity the. The comfort control uses three types of remote temperature sensors. Note. On all thermistor type sensors when testing it is. The remote sensor is the temperature sensor that allows. A remote sensor is used for each unit or zone. A. Unplug the remote sensor and test its cable with an. Element, heat. Switch, auto limit. Plug, 3Pole. Cover, heater terminals. Guard, heat element. Sleeving, wire. Strain, relief. Switch, auto limit. Sleeving, fiberglass Plug, 3Pole Cover, heater terminals. Electric box. Guard, heat. Strain, relief.

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