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floor.http://salvagesmart.com/userfiles/bose-cinemate-owners-manual.xml

• 1.0.

NOTE If your system control has a "Constant ON" feature, you will not always feel warmth, even though air may be blowing. Verify that the circuit breakers are ON or that fuses have not blown. If you must reset breakers or replace fuses, do so only once. Contact your Carrier expert for assistance if the breakers trip or the fuses blow a second time. Check air filters for accumulations of large particles. Check for blocked exhaust air grilles or ductwork. Keep grilles and ductwork open and unobstructed. Defrost time could be five to 20 minutes, depending on temperature and settings. With this information, the dealer will be able to correct any problems. Make sure that the condensate drain tube has a slight slope and is not kinked. Provide your model and serial number. With this information, the dealer will be able to correct any problems. Water likely means the support base has shifted since installation and is no longer level. Soak the core in warm water and mild soap for three hours and then rinse under warm not hot water. Use a vacuum cleaner to remove accumulated dust and then handwash in warm water. Filter life varies from home to home and is based on several factors, but most last from eight to 12 months. If your geothermal unit is connected to well water instead of a closed loop, we recommend the heat exchanger inside the unit be cleaned periodically to prevent the buildup of minerals that can reduce system performance. Discover everything Scribd has to offer, including books and audiobooks from major publishers. Start Free Trial Cancel anytime. Carrier 58pav Service Maint Uploaded by Hippy43 0% 1 0% found this document useful 1 vote 12K views 12 pages Document Information click to expand document information Description This is the service and maintenance manual for a Carrier 58 PAV central heat and air unit. Great to have when you need

it.http://www.eteps.gr/uploads/_uploads/bose-cinemate-series-1-owners-manual.xml

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Precautions will pre vent electrostatic discharges from personnel and hand tools which are held during the procedure. These precautions will help to avoid exposing the control to electrostatic discharge by putting the furnace, the control, and the person at the same electros tatic potentia l. 1. Disconn ect all power to the furnace. Tools held in a person's hand during grounding will be satisfactorily discharged. 3. Aft er touchin g the chass is you may proce ed to ser vice the control or connecting wires as long as you do nothing that recharges your body with static electricity for example; DO NOT move or shuffle your feet, DO NOT touch ungrounded objects, etc.. 4. If you touch ung roun ded object s rec harg e your body with static electricity, firmly touch furnace again before touching control or wires. 5. Use this procedure for installed and uninstalled ungr ounded furnaces. 6. Before removing a new control from its container, dischar ge you r body 's elec tros tatic char ge to grou nd to pro tect the control from damage. If the control is to be installed in a furnace, follow items 1 through 5 before bringing the control or yourself into contact with the furnace. Put all used AND new cont rols into cont aine rs befo re touc hing ung roun ded objects. 7. An ESD service kit available from comm ercial source s may also be used to prevent ESD damage. Never store anything on, near, or in contact with the furnace, such as 1. Spray or aerosol cans, rags, broo ms, dust mops, vacuum cleaners, or other cleaning tools. 2. Soa p pow der s, blea che s, waxe s or oth er clea ning com pounds, plastic or plastic containers, gasoline, kerosene, cigarett e lighter fluid, dry cleaning fluids, or other volatile fluids. 3. Paint thinner s and other painting compounds, paper bags or other paper products. A failure to follow this warning could result in corrosion of the heat exchanger, fire, personal injury, or death.

Tur n off the gas and elec tric al sup plie s to the uni t bef ore perfor ming any mainten ance or service. Follow the operating instructions on label attached to furnace. A failure to follow this warning could result in personal injury. The min imu m mai nten ance that sho uld be per for med on this equipment is as follows 1. Chec k and clean air fil ter each month or mor e fre quen tly if required. Replace if torn. 2. Check blower motor and wheel for cleanliness each heating and cooling season. Clean and lubricate as necessary. 3. Chec k elec tric al con nect ion s for tigh tnes s and con trol s for proper operation each heating season. Service as necessary. As with any mechanical equipment, personal injury can result fro m sha rp met al edge s, etc., ther efor e, be care ful whe n removing parts. AIR FILTER ARRANGEMEN T The air filter arrangement may vary depending on the

application. Refer to Table 1 or 2 for filter size information. Clean filters with tap water. Clean filters with tap water. Spray water through filter in opposite direction of airflow. f. Ri ns e and le t dr y. Oi li ng or co at in g of filter is no t recomm ended or require d. g. Reinstall filters. h. Replace blower and control access doors. i. Restore elect rical power to furnace. BLOWER MOTOR AND WHEEL For long life, economy, and high efficiency, clean accumulated dirt and grease from the blower wheel and motor annually. These motors can be identified by the absence of oil ports on each end of the motor. For those motors with oil ports, lubr icat e mot or ever y 5 years if mot or is use d on int erm itte nt operation thermostat FAN switch in AUTO position, or every 2 years if motor is in continuous operation thermostat FAN switch in ON position. Clean and lubricate as follows 1.Browse Books Site Directory Site Language English Change Language English Change Language. All other operations must be performed by trained service personnel.

When working on heating equipment, observe precautions in the literature, tags, and labels attached to or shipped Wear safety glasses and work gloves.DANGER identifies the most serious hazards which An open door in front of the In some instances, these instructions exceed certain local codes and ordinances, especially those that may not have kept up with changing residentieil construction practices. Return air temperature must not exceed a maximum of 85 degrees F DB. Page Count 12 Index Page SAFETY CONSIDERATIONS.12 ELECTROSTATIC DISCHARGE ESD PRECAUTIONS PROCEDURES.2 CARE AND MAINTENANCE.211 Air Filter Arrangement.23 Blower Motor and Wheel.34 Cleaning Heat Exchanger.45 Electrical Controls and Wiring.6 Troubleshooting.611 Unit Wiring Diagram.8 Service Label.9 Troubleshooting Guide.1011 SAFETY CONSIDERATIONS Installing and servicing heating equipment can be hazardous due to gas and electrical components. Only trained and gualified person nel should install, repair, or service heating equipment. Untrained personnel can perform basic maintenance functions such as cleaning and replacing air filters. When working on heating equipment, observe precautions in the literature, on tags, and on labels attached to or shipped with the unit and other safety precautions that may apply. Follow all safety codes. Recognize safety information. This is the safetyalert symbol. DAN GER identifies the most serious hazards which will result in severe personal injury or death. WARNING signifies a hazard which could result in personal injury or death. CAUTION is used to identify unsafe practices which would result in minor personal injury or product and property damage. Book 1 4 Tab 6a 8a PC 101 Catalog No. 535835 Printed in U.S.A. Form 58P,R9SM Pg 1 994 Replaces 58P,R8SM If you do not possess these, do not attempt to perform any maintenance on this equipment other than those procedures recommended in the User's Manual.

Take precautions during furnace installation and servicing to protect the furnace electronic control. These precautions will help to avoid exposing the control to electrostatic discharge by putting the furnace, the control, and the person at the same electrostatic potential. 1. Disconnect all power to the furnace. DO NOT TOUCH THE CONTROL OR ANY WIRE CONNECTED TO THE CON TROL PRIOR TO DISCHARGING YOUR BODY'S ELEC TROSTATIC CHARGE TO GROUND. 2. Firmly touch a clean, unpainted, metal surface of the furnace chassis which is close to the control. Tools held in a person's hand during grounding will be satisfactorily discharged. 3. After touching the chassis you may proceed to service the control or connecting wires as long as you do nothing that recharges your body with static electricity for example; DO NOT move or shuffle your feet, DO NOT touch ungrounded objects, etc.. 4. If you touch ungrounded objects recharge your body with static electricity, firmly touch furnace again before touching control or wires. 5. Use this procedure for installed and uninstalled ungrounded furnaces. 6. Before removing a new control from its container, discharge your body's electrostatic charge to ground to protect the control from damage. Put all used AND new controls into containers before touching ungrounded objects. 7. An ESD service kit available from commercial sources may also be used to prevent ESD damage. CARE AND MAINTENANCE For continuing high performance and to minimize possible equip ment failure, it is essential that periodic maintenance be performed on this equipment. Consult your local dealer as to

the proper frequency of maintenance and the availability of a maintenance contract. Never store anything on, near, or in contact with the furnace, such as 1. Spray or aerosol cans, rags, brooms, dust mops, vacuum cleaners, or other cleaning tools. 2.

Soap powders, bleaches, waxes or other cleaning com pounds, plastic or plastic containers, gasoline, kerosene, cigarette lighter fluid, dry cleaning fluids, or other volatile fluids. 3. Paint thinners and other painting compounds, paper bags or other paper products. Turn off the gas and electrical supplies to the unit before performing any maintenance or service. The minimum maintenance that should be performed on this equipment is as follows 1. Check and clean air filter each month or more frequently if required. Clean and lubricate as necessary. 3. Check electrical connections for tightness and controls for proper operation each heating season. As with any mechanical equipment, personal injury can result from sharp metal edges, etc., therefore, be careful when removing parts. AIR FILTER ARRANGEMENT The air filter arrangement may vary depending on the application. Refer to Table 1 or 2 for filter size information.Replace if torn. d. Furnaces are equipped with permanent, washable filters. Spray water through filter in opposite direction of airflow. f. Rinse and let dry. Oiling or coating of filter is not recommended or required. g. Reinstall filters. h. Replace blower and control access doors. i. Restore electrical power to furnace. BLOWER MOTOR AND WHEEL For long life, economy, and high efficiency, clean accumulated dirt and grease from the blower wheel and motor annually. The following steps should be performed by a qualified service technician. Some motors have prelubricated sealed bearings and require no lubrication. These motors can be identified by the absence of oil ports on each end of the motor. For those motors with oil ports, lubricate motor every 5 years if motor is used on intermittent operation thermostat FAN switch in AUTO position, or every 2 years if motor is in continuous operation thermostat FAN switch in ON position. NOTE Remember to disconnect the electrical supply before removing access doors.Do not overoil. c.

Allow time for total quantity of oil to be absorbed by each bearing. d. Wipe excess oil from motor housing. e. Replace dust caps or plugs on oil ports. 12. Remove blower wheel from housing. a. Mark cutoff location to ensure proper reassembly. b. Remove screws holding cutoff plate and remove cutoff plate from housing. c. Lift blower wheel from housing through opening. 13. Clean blower wheel and motor using a vacuum cleaner with soft brush attachment. Do not remove or disturb balance weights clips on blower wheel blades. The blower wheel should not be dropped or bent as balance will be affected. 14. Reinstall blower wheel by reversing items 12 a through c. Be sure wheel is positioned for proper rotation. 15. Reassemble motor and blower by reversing items 5 through 10. If motor has ground wire, be sure it is connected as before. Be sure the motor is properly positioned in the blower housing. CLEANING HEAT EXCHANGER The following steps should be performed by a qualified service technician. NOTE Deposits of soot and carbon indicate the existence of a problem which needs to be corrected. Take action to correct the problem. Be careful not to damage sealant. 7. Remove complete inducer assembly from furnace, exposing flue openings. Fig. 6-Model 58PAV Upflow A92063 DRAFT. SAFEGUARD SWITCH FLUE COLLECTOR BOX MANUAL RESET LIMIT SWITCH MOUNTING SCREWS RELIEF BOX CONTROL BOARD FILTER RETAINER WASHABLE FILTER Fig. 7—Model 58RAV Downflow A92064 VENT PIPE.TIGHTNESS is very important. 4. Remove metal screw fitting from wire brush to allow insertion into cable. b. Clean each heat exchanger cell. 1. Attach variablespeed, reversible drill to end of steel spring cable end opposite brush. 2. Insert brush end of cable into upper opening of cell and slowly rotate with drill. DO NOT force cable. Gradually insert at least 36 in.DO NOT pull cable with great force. Reverse drill and gradually work cable out. 4. Remove burner assembly and cell inlet plates.

Be very careful when removing the burner assembly to avoid breaking the ignitor. See Fig. 9 for the correct ignitor location. 5. Replace screws in center panel and cells before cleaning. 6. Insert brush end of cable in lower opening of cell, and proceed to clean 2 lower passes of cell in same manner as

2 upper passes. 7. Repeat foregoing procedures until each cell in furnace has been cleaned. 8. Remove residue from each cell using vacuum cleaner. 9. Clean burner assembly using vacuum cleaner with soft brush attachment. 10. Reinstall cell inlet plates and burner assembly. Care must be exercised to center the burners in the cell openings. 9. After cleaning flue openings, check sealant on flue collector to ensure that it has not been damaged. If new sealant is needed, contact your dealer or distributor. 10. Clean and replace flue collector assembly, making sure all 8 screws are secure. 11. Reinstall relief box. 12. Reconnect wires to the following components. a. Draft safeguard switch b. Inducer motor c. Pressure switch d. Limit overtemperature switches e. Gas valve f. Hot surface ignitor g. Flamesensing electrode h. Two wiring connectors leading to control 13. Reconnect vent pipe to relief box. Never use a match or other open flame to check for gas leaks. Use a soapandwater solution. Check accessories and cooling unit for additional electrical supplies. The electrical ground and polarity for 115v wiring must be maintained properly. Refer to Fig. 10 for field wiring information and to Fig. 12 for unit wiring information. NOTE If the polarity is not correct, the STATUS LED on the control center will flash rapidly and prevent the furnace from operating. The control system also requires an earth ground for proper operation of the control board and flamesensing electrode. The 24v circuit contains an automotivetype, 3amp fuse located on the control board. See Fig. 11.

Any direct shorts of the 24v wiring during installation, service, or maintenance will cause this fuse to blow. If fuse replacement is required, use ONLY a fuse of identical size. With power to the unit disconnected, check all electrical connections for tightness. Tighten all screws on electrical connections. If any smoky or burned connections are found, disassemble the connection, clean all parts, strip wire, and reassemble properly and securely. Reconnect electrical power to the unit and observe unit through 1 complete operating cycle. Electrical controls are difficult to check without proper instrumentation; if there are any discrepancies in the operating cycle, contact your dealer and request service. For an explanation of fault codes, refer to service label located on blower access door or Fig. 13, and the troubleshooting guide. The control center stores 1 fault code the last fault to occur for a period of 48 hrs or until the 115 or 24v power is interrupted. NOTE Removing blower access door will open blower access door switch and terminate 115v power to control center, and fault code will be erased. Look into blower access door sight glass for current LED status. 1. To retrieve fault code, proceed with the following NOTE NO thermostat signal may be present at control center, and all blower time delay off periods must be completed. a. Leave 115v power to furnace turned on. b. Look into blower access door sight glass for current LED status. NOTE Leave blower access panel installed to maintain power to control center to view current LED status. c. Remove control access door. d. BRIEFLY remove either wire from the main limit switch until LED goes out, then reconnect it. NOTE If wire to main limit is disconnected longer than 4 sec, main blower starts, and retrieval request is ignored. 2. When above items have been completed, the following will occur a. LED flashes a fault code 4 times. Record this fault code for further troubleshooting. b.

Inducer motor operates for 10 sec, then turns off. c. Hot surface ignitor is energized for 15 sec, then de energized. d. Main blower operates at cooling speed for 10 sec, then turns off. e. Main blower operates at heating speed for 10 sec, then turns off. Items a through e above will assist in furnace troubleshooting since all components are functionally operated except the gas valve. Blower access door switch opens 115v power to control center. No component operation can occur. Caution must be taken when manually closing this switch for service purposes.TROUBLESHOOTING Refer to the service label. See Fig. 13. Pages 10 and 11 contain a troubleshooting guide. The guide will help to identify the problem or failed component.NOTE Connect Yterminal as.If it opens after trial for ignition.If twinned, 24V power to.STATUS 11 12 13 14 21 22 23 24 31 33 34 NO PREVIOUS CODE Stored status codes are erased when power 115V or 24V to.Flame rollout switch requires manual reset.SECONDARY VOLTAGE FUSE IS OPEN Check for. PRESSURE, DRAFT SAFEGUARD, OR

AUXILIARY LIMIT when used SWITCH DID. NOT CLOSE OR REOPENED If open longer than five minutes, inducer shuts off for 15 minutes before retry. Check for LIMIT OR FLAME ROLLOUT SWITCH IS OPEN If open longer than three minutes, code.Is circuit breaker closed. Is red LED status light on. Is red LED status light blinking.Is door switch closed. Is there 115v going to switch. Replace control board. Replace door switch. Is red LED status light blinking.Check for previous fault by.SHORT AND ONE LONG FLASH if no previous fault. After the control repeats the code 3 times, it will sequentially operate.The status code is a 2 digit number.Was there a previous fault code.Go to section with status code determined. Is there 115v at L1 and L2. NO NO NO NO YES YES YES YES YES YES NO NO YES YES START Is there 24v at SEC1 and SEC2 NO TROUBLESHOOTING GUIDE Replace transformer. Close circuit breaker and.UP 115V OR 24V Normal operation.

Blower will run for 90.SWITCH LOCKOUT Limit.Control will autoreset in 3 hrs. See No. 34 21 GAS HEATING LOCKOUT . Turn off power and wait 5 minutes to retry. Check for Unplug ignitor harness from control.Replace control board. Check for continuity in the harness.Do main burners stay on. Allow blower to come on and repeat. If current is near typical value and. Replace electrode. Will main burner ignite and stay on. SIGNAL Flame was sensed.SWITCH IS OPEN If limit.If flame is not sensed during the. To determine whether the. There are many. The screw for this piece is on the backside. Once I got over the confusion, about 45 seconds, it was easy. 2 hr reviewing videos cause Im a slow learner. 30 minutes of over analyzing. Good thing the instruction book was still around cause I spent 10 minutes trying to figure how to take off the main door. Lift and pull slightly on my Carrier system. No screws on door. 5 minutes to disassemble. 5 minutes to replace with the new one. Be careful not to touch the metal part. 5 minutes to move wires around. Started and 45 seconds later, the igniter glowed red red red and whoosh. Heat at last. Good thing I bought 2 as I have 2 furnace. Original lasted 14 years. Did not have to disassemble anything except remove front door. These are often installed in hard to reach locations on the furnace so take your time putting it in as these are very, very fragile and dont touch the element itself. They are made to go into a small metal frame that is attached to the furnace. Sometimes it is easier to put it in the frame first, sometimes it may be easier to leave the small frame in the furnace. Use whichever method will be the most gentler on the element. The box was a band new Honeywell Q4100C9056. It was a 100% accurate replacement for Norton 271M LH 33Z3004 igniter. Works like a charm! I am going to buy a second one and keep it as a spare. After testing flame sensor with multimeter, it was clear. Old flame sensor readings below normal level.

A new one fix it. This particular product was populating in my search even though the compatible part number wasnt listed in the description. Good news is that it does indeed replace J2351501571. I received via 1day shipping today the high here today was 22F and it was an exact fit. Thanks so much.While it is slightly different, i.e., plastic instead of metal, it installed easily and works perfectly. Note that the original had labels on the inlet and outlet and this one doesnt, but the physical locations of the hose connections are the same. The blower motor failed and the condenser iced up over several hours. When the compressor was finally turned off, the ice melted down and shorted out the ICs on the old board from 1987. With this new board, that sort of failure wont happen again, as the integrated circuits on this board are coated in resin on both sides of the circuit board. The relays are rated for more amperage than the original board, and the bussing is much thicker than the original design. I couldnt be more pleased.. full review It showed up and was the genuine part. Shipping was very fast. Heres the advice part. The blower wheel can be EXTREMELY difficult to get off the motor without destroying it. I turned a couple of allen wrenches into pretzels. I even soaked the allen set screw in breakfree penetrating oil and when that didnt work heated it up until it was cherry red with a with a torch. Even if you could it just takes way too long and is way too much effort. At very least also buy the blower wheel. Then just cut the old motor shaft with a hack saw just behind the. It fit and works great. I wish I could pay a little bit less for it. I purchased the first one from StayPureFilters and received a Packard branded made in Taiwan motor. The Packard

motor seemed to be of cheaper quality than the original and it leaked condensate from the bottom of the housing. I returned the Packard motor and purchased a second one from North America HVAC.

The second motor was a Carrier branded made in the USA replacement motor. The Carrier motor appeared to be of better guality and is working without any problems. Fit perfectly. Saved us so much! Great customer service, recommend highly! The second filter had a slight defect one corner was slightly dented, but not dented enough that I could not use the filter. It still fit into the furnace slot for the air filter, but I was a little disappointed with the small defect. It had been shipped in a sturdy storage box which was put into a shipping box. The shipping box was not damaged so the filter must have been slightly damaged at the company. The other two filters were of good quality. The problem with the second filter is the reason I am giving 4 instead of 5 stars. All three filters were a breeze inserting into the furnace slot. We have 2 cats in the house and the filter does an amazing job of catching their hair and all the other particles in the house. I have to. full review. Carrier gas furnaces use a safety component known as a flame rollout switch to shut down the appliance when it overheats. If your Carrier furnace turns off unexpectedly, knowing the location of the flame rollout switch can come in handy. Fortunately, finding the flame rollout switch on a Carrier furnace takes just seconds. Serious injury or death can occur if repairs are performed while the furnace is connected to electrical and gas supplies. You can restore the electricity and gas to the furnace when youve completed your troubleshooting or repairs. In upflow models, the top access panel on the front of the furnace shields the burner components, while the bottom panel provides access to the blower components. Remove the burner access panel; pull the panel up and toward you to clear the tabs that hold the panel in place. The burner assembly is mounted to the top of the furnace cabinet. Find the flame rollout switch on the right side of the burner assembly housing.