



- Fig. 1—Inducor Motor Assembly with Cover Plate 300119-403**
9. Remove screws in rubber wheel and remove wheel.
- NOTE: One of 3 bolts remaining on the plastic inducer cover plate should be in the plastic plate. Loose and mark the bolt before proceeding.
10. Remove 3 bolts remaining on the inducer cover plate assembly and remove cover.
- Step 2—Install New Motor on Cover Plate Part No. 300119-403**
1. Remove rubber grommets from old motor and install in cover plate.
 2. Remove old brass rubber seal from cover plate and install new brass rubber seal.
 3. Install new motor on inducer cover plate. (See Fig. 3) Secure motor with 3 bolts previously removed, marking the bolt location in Step 1. Bolt ID is used in plastic cover plate hole.
 4. Slide edge of ring into motor shaft with rubber side facing rubber wheel as shown in Fig. 1. Measure clearance between ring and cover plate in 3/16 in.
 5. Position inducer wheel on motor shaft with sensor on flat portion of shaft. Measure clearance between wheel and cover plate in 1/8 in. (See Fig. 3) Tighten screws.
 6. Measure cover plate gasket in good condition and replace if necessary. Install cover/cover plate assembly in inducer housing.
 7. Install top mounting bracket on coupling box and inducer housing. Remove grommet, install rubber band, remove on housing if previous motor was grounded in this manner.
- Fig. 2—Inducor Motor Assembly with Cover Plate 300119-403 or -405**
8. Install top mounting bracket on coupling box and inducer housing. Remove cover plate to induce housing with mounting screws. (See Fig. 3)
9. Connect motor lead connector.
- a. This kit requires a PSC motor and capacitor. Position capacitor in a convenient location using screw to secure internally.
- b. Select appropriate wire adapter and connect motor leads to inducer control or furnace wire harness.
10. Turn on gas and electrical supplies to furnace.
11. Check furnace operation through 3 complete cycles.
12. Install control access door.
- Step 3—Install New Motor on Cover Plate Part No. 300119-403 or -405**
- NOTE: Remove shaft seal in 30119-403 or -405 cover plate in good condition and install properly. (See Fig. 3)
1. Remove rubber grommets from old motor and install in new motor.
 2. Remove shaft seal in cover plate.
 3. Install new motor on inducer cover plate. (See Fig. 3) Secure motor with 3 bolts previously removed, marking the bolt location in Step 1. Bolt ID is used in plastic cover plate.
 4. Position inducer wheel on motor shaft with sensor on flat portion of shaft. Measure clearance between wheel and cover

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You should see the model number printed on rating plate or decal. Still unable to find that model number. Just call your local Carrier Expert. He or she will be happy to help you. Make sure the temperature is set cooler than the current indoor temperature. If it is not running, make sure the breakers in your home's breaker box or electrical panel are in the ON position. Make sure it's in the ON position. If the system is set for cooling, the blower motor should be running. If not, check to make sure your indoor unit switch is in the ON position. If you have one-inch-thick furnace filters, a once-a-month change is recommended. If you don't change it, the filter will eventually block the proper airflow and cause your outdoor air conditioner unit to shut down. Return air grilles are larger and are located on a wall or the ceiling in newer homes. Older homes frequently have return air grilles on the floor. NOTE If your system control has a "Constant ON" feature, you will not always feel warmth, even though air may be blowing. If it isn't, your system won't know to provide heating. Try turning the fan to ON using the fan switch on the control or thermostat to test for power to the furnace. If you have one-inch-thick furnace filters, a once-a-month change is recommended. If you don't change it, the filter will block the proper airflow and strain your furnace. Return air grilles are larger and are located on a wall or the ceiling in newer homes. Older homes frequently have return air grilles on the floor. 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. Page Count 3 Register; Terms Contact Us; Facebook; RSS; Twitter; Tricias Compilation for carrier 58bma furnace service manual Follow. Made by ICP, a Carrier cousin. Carrier Infinity System Control Installation Instructions. NOTE Read the entire instruction manual before starting the installation. NOTE Please refer to the literature provided with the connected HVAC equipment. The features and functions outlined in the Installation Instructions reflect Version 1US

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In Canada, refer to the current editions of the Canadian Electrical Code When you see this symbol Understand the These words are used with DANGER identifies the most serious hazards, which will WARNING signifies hazards, which could CAUTION is used to identify unsafe practices, The InfinityR System consists of several intelligent communicating components Package units which continually communicate with each other via a four wire Commands, operating conditions, and other data The result is a All Infinity System furnaces or fan coils are variable speed and multi stage for They support controlled ventilation, Either an Infinity System When using conventional single stage outdoor units, the Infinity System furnace or Also, the NIM allows connection of a Carrier HRV or ERV without the need for separate wall control. When using a Carrier HRV or ERV with a zoned system, the Infinity System Zone All system components are controlled through the wall mounted Infinity System. Control, which replaces the conventional thermostat and provides the homeowner NOTE See Section 4 for installation instructions. The time and date can either be set manually or can be synchronized with the web From the main screen, touch MENU, on the To set the HOUR, MINUTE, MONTH, DAY, or YEAR touch the feature Use the Up Y and Down B buttons to make the appropriate changes. When you have completed all of the settings touch SAVE. The time zone can be selected by selecting the set time zone from the menu. Then Time zones for both US and Canada are After setting up the time zone, the time synchronization can then be done, after Both setting the time zone and enabling time From the main screen, touch MENU, on the bottom of the control, then Down B The SERVICE icon allows you to See Section 6.7 for more information. Touch the SERVICE icon for about 10 seconds, then touch DEALER LOGO More detailed information can be found on HVACPartners.com under the. Application Instructions. Overview.

This instruction covers installation of the Infinity System Control and the Infinity. Wireless Access Point only. Physical installation instructions for the indoor and Setup, commissioning, operation, and troubleshooting of the Infinity System are More detailed information It is the guide to connecting the system components and commissioning the system Special screen prompts and start up S Install the Infinity System Control according to this instruction. S Install indoor unit, outdoor unit, and accessories according to their instructions. S Wire complete system according to this instruction. S Setup, commission, and operate system according to this instruction, and as S Note that some detailed equipment configuration and service information may Please refer to the equipment Inspect equipment. File a claim with shipping company prior to installation if Disconnect power before routing control wiring. All wiring must comply with national, state, and local codes. The Infinity System Control is the command center for the Infinity System. It The Infinity System Control and Remote Room Sensors SHOULD be mounted. S Approximately 5 ft 1.5 m from the floor. S Close to or in a frequently used room, preferably on an inside partitioning wall. S On a section of wall without pipes or ductwork. The Infinity System Control and Remote Room Sensors SHOULD NOT be S Close to a window, on an outside wall, or next to a door leading to the outside. S Exposed to direct light or heat from a lamp, sun, fireplace, or other In areas with poor air circulation, such as behind a door or in an alcove. A Remote Room Sensor can be used with the Infinity System Control to take the This allows the Infinity System. Control to be mounted in areas with less than optimal airflow such as near an The remote sensor can be wired to the In either case, the Infinity. System Control will automatically detect the Remote Room Sensor and ignore its NOTE Humidity sensing will occur ONLY at the Infinity System Control. The.

Remote Room Sensor does NOT have humidity sensing capability. Typically, one remote sensor is

used but, multiple sensors may be used and Averaging requires a special series parallel wiring See figure below. It is also important to System Control in an area where humidity sensing may not be accurate. Module. Damper Control. Module. Sensor 1. Sensor 2. Sensor 3. Sensor 4 Any zone may use a Smart Zone Sensor SYSTXCCSMS01. It provides alt also displays outdoor temperature and indoor humidity sensed at the Zone 1. Infinity System Control. Only one Smart Sensor may be used per zone. They cannot If a Smart Sensor is used in a zone, a Remote Room Sensor may also be used in the same zone. The Remote Room. Sensor has priority over the Smart Sensor. The Smart Sensor will display the. Remote Room Sensor temperature. NOTE Smart Sensors must be addressed to identify which zone it will control. See. Smart Sensor Installation Instructions for details. Ordinary thermostat wire is recommended. Continuous wire lengths over 25 ft. Each communicating device in the Infinity Zone System has a four pin connector NOTE Some outdoor units, typically those with multiple compressor stages, See the outdoor unit installation Before installing, modifying, or servicing system, the main Lock out and tag Turn off all power to equipment. If an existing Infinity Control or other control is being replaced NOTE Mercury is a hazardous waste, if existing control contains any mercury, The Infinity System Control does not contain Select the appropriate Infinity System Control mounting configuration. Use the See Section 4.5 for Route wires through large hole in mounting plastic. Level rear plastic against Adjust length and routing of each wire to reach each wire entry on the. Match and connect thermostat wires to proper terminals on control backplate. See wiring diagrams in Section 8.0. Push any excess wire into the wall. Seal hole in wall to prevent any air leaks. Leaks can affect operation.

Attach Infinity System Control to the mounting plastic by lining up the plastic Perform installation of all other system equipment i.e. dampers, humidifier, Turn on power to equipment. If the thermostat wiring will be located near or in parallel with high voltage wiring, The shield wire should be The shield wire should. NOT be connected to any terminal at the Infinity System Control. Connecting the Connect one pair of the two pair minimum cable to the A and B communication All wiring is run back to the Infinity System Damper Control Module The Damper Control. Module is approved for indoor use only and should never be installed with any of The Damper Control Module and zone. The cover must be Do not locate where it will be It may be mounted in either vertical or horizontal position. Remember that wiring access is likely the most important consideration. To prevent possible damage to the Damper Control Module. DO NOT mount on plenum, ductwork, or flush against First become familiar with all plastic assembly pieces shown on the following page. The Infinity System Control will snap together with the standard backplate supplied Attach backplate using only a small hole in the wall allowing Mount the front assembly to the standard This decorative backplate or beauty ring A 24VAC bypass or fan powered humidifier may be installed. NOTE Do NOT use a traditional humidistat to control humidifier operation. If a bypass humidifier should be wired directly to the furnace or fan coil HUM and Most fan powered humidifiers produce internal 24VAC in order to energize upon a For this application, a 24VAC N.O. Isolation Relay Applying 24VAC isolation relay coil to furnace or See fan powered humidifier This section addresses initial power up or commissioning of a new Infinity. System Control. The control will communicate and identify all components in the. Infinity System.

The following is a typical example for a communicating The process may vary for other The Infinity System Control will light up and begin the commissioning process by The Infinity System Control will then proceed to communicate with the outdoor This includes Infinity small NOTE If the outdoor unit cannot be found, the control will display "Outdoor unit S Select the appropriate unit installed; then, touch NEXT. NOTE For some communicating products SPP and geothermal package units, S The installer will first be instructed to select the appropriate size of the outdoor If a furnace is installed with a variable capacity heat pump or an 18VS heat pump or Select "other" for non Carrier evaporators. If the indoor equipment is a fan coil, the control will display "Searching for heater" The Infinity System Control supports two types of Hydronic Heat applications In either application, a

Hydronic Heat kit should be installed in place of an electricThe system willThe system will treat the hot water coil as either auxiliary heat in a heat pumpSetup options for Hydronic Heat applicationsNOTE The daily airflow verification test will take place even when the radiantAccess Module, used for home automation only, is connected to the system.The compatible modulesThe SAM is used for homeNOTE For more information regarding the SAM Module, reference the latestSpecification, ASCII Protocol Information”, available on HVACpartners.com, orIf the systemSee the Smart Sensor Installation Instructions on how to assign Smart Sensors toAfter each zone has been identified, touch NEXT.The installer will next be prompted to select the air filter type installed with the. Infinity System. After the selection is made, touch NEXT. S Air Filter 1 in. to 4 in.

media filterAir Purifier Infinityr Series or Performancet Series Air PurifierNext, the installer will be prompted to select whether a humidifier is installed in theNext, the installer will be prompted to select whether ultraviolet lights are installedThe equipment summary screen will appear after accessories have been selected. This screen will give a summary of all equipment automatically found or manuallySee the Infinity System HVAC equipment Installation. Instructions for more details, as provided. Example SPP Equipment Summary ScreenThe airflow verification check screen will appear next, as the system performs thisIf the system has an indoor unit equipped with a previous version CFM controlledIf the blower RPM isTrueSenset dirty filter detection operation will not be affected. Press NEXT whenIf the system has an indoor unit equipped with an updated version CFM controlledIf the achieved actual CFM is unacceptablyPress NEXT when the airflow verificationNOTE The airflow verification check occurs at initial installation, or when FULL. INSTALLATION or AIRFLOW VERIFICATION TEST are selected in theThe duct assessment screen will be displayed next for zoned systems. Touch NEXTDuct Assessment will measure the relative size of theThese measurements are used to controlStatus messages will appear onThe process will take approximatelyThe system will first open allIt will then take a static pressure measurement. The system will then close all zones and open one zone at a time, taking a staticThe system will then close all zones and take a pressure measurement, getting aWith these static pressureIf the Infinity System Control detects an error damper not moving or damper wiredIf it still detects a damperNOTE The daily duct assessment will occur even if static pressure monitoring isAfter the duct assessment is complete, touch NEXT.The Service menus contain a set of vital information.