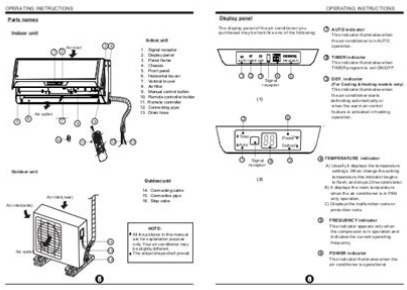
carrier split unit air conditioner installation manual



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carrier split unit air conditioner installation manual

By using our site, you agree to our cookie policy.Learn why people trust wikiHow Victor Belavus is an Air Conditioning Specialist and the Owner of 212 HVAC, an air condition repair and installation company based in Brooklyn, New York. In addition to HVAC and air conditioning units, Victor also specializes in furnace repair and air duct cleaning. He has over 10 years of experience working with HVAC systems.In this case, 87% of readers who voted found the article helpful, earning it our readerapproved status.These units are also quieter, easier to install, and more energy efficient than central air conditioning. If you don’t want to hire a professional to install a split system air conditioner and you have some experience with plumbing and electrical work, you can install the unit on your own. Each air conditioning unit is unique to its manufacturer, but the general installation process is the same.This image is not licensed under the Creative Commons license applied to text content and some other images posted to the wikiHow website.Youll need to cut a hole through the wall to feed the pipes from the indoor unit to the outdoor unit, so make sure the location you choose will allow you to do so. Choose a spot away from direct sunlight and heat sources for the best results.The electrical noise from these sources could cause operational problems for your air conditioner. This image is not licensed under the Creative Commons license applied to text content and some other images posted to the wikiHow website.Hold the mounting plate against the wall where you want to install the indoor unit. Use a level to make sure it is both horizontally and vertically level.This image is not licensed under the Creative Commons license applied to text content and some other images posted to the wikiHow website.Make a mark in the center of the hole in the mounting plate.http://gabrielacalvente.com/userfiles/bose-wave-radio-cd-service-manual.xml

- **carrier split unit air conditioner installation manual, carrier split type air conditioner installation manual, carrier split system air conditioner manual, carrier split type air conditioner manual, carrier split unit air conditioner installation manual, carrier split unit air conditioner installation manual template, carrier split unit air conditioner installation manual pdf, carrier split unit air conditioner installation manual download, carrier split unit air conditioner installation manual 2017.**

This image is not licensed under the Creative Commons license applied to text content and some other images posted to the wikiHow website.Make sure the cable wires are connected to the screw terminals and that the wiring matches the diagram that came with the unit.This image is not licensed under the Creative Commons license applied to text content and some other images posted to the wikiHow website.Secure the included copper pipes, power cable, and drain pipe together with electrical tape. Place the drain pipe on the bottom to ensure a free flow of water. Run the pipes and cable through the hole in the wall, then secure them to the designated spots on the indoor unit as directed by the instruction manual.See the instruction manual included with your kit for more information. This image is not licensed under the Creative Commons license applied to text content and some other images posted to the wikiHow website.To attach the air conditioner to the wall, simply align the female connections on the back of the unit with the male connections on the mounting plate and press firmly to secure the unit in place.This image is not licensed under the Creative Commons license applied to text content and some other images posted to the wikiHow website.If possible, select a shady location that’s sheltered from the wind in addition to dust and traffic to keep your unit functioning at its best.This image is not licensed under the Creative Commons license applied to text content and some other images posted to the wikiHow

website.Don’t place the outdoor unit directly on the ground, as it’s heavy and can shift around on dirt or rocks. It’s necessary to install the condenser on a concrete pad, which you can find at home improvement stores.This image is not licensed under the Creative Commons license applied to text content and some other images posted to the wikiHow website.http://www.centrum.elblag.pl/centrum/upload_img/file/bose-wave-radio-cd-manual-pdf.xml

Lay a rubber cushion on top of the pad to minimize vibration, then set the outdoor condenser unit on top of the pad.This image is not licensed under the Creative Commons license applied to text content and some other images posted to the wikiHow website.Remove the cover on the condenser. Refer to the unit’s wiring diagram in the instruction manual and make sure the wires are connected as the diagram suggests. Make any adjustments as necessary.This image is not licensed under the Creative Commons license applied to text content and some other images posted to the wikiHow website.Use flare nuts to secure the 2 copper pipes from the indoor unit to the outdoor unit as per the instruction manual. Connect the power cable that runs from the indoor unit to the outdoor unit as well.This image is not licensed under the Creative Commons license applied to text content and some other images posted to the wikiHow website.Remove the caps from the 2way and 3way valves and from the service port and connect a vacuum pump hose to the service port. Turn the vacuum on until it reaches an absolute vacuum of 10mm Hg. Close the low pressure knob and then turn off the vacuum.Replace the service port and caps. This image is not licensed under the Creative Commons license applied to text content and some other images posted to the wikiHow website.To ensure the pipes and cables don’t move around or become disconnected, attach them to the exterior wall of your home using the clamps that came with the kit. Follow the directions in the manual to ensure the clamps are spaced adequately.This image is not licensed under the Creative Commons license applied to text content and some other images posted to the wikiHow website.Spray expanding polyurethane foam into the hole you drilled to feed the cable and piping through the wall. Make sure the hole is completely sealed to prevent hot air or insects from getting through.

This image is not licensed under the Creative Commons license applied to text content and some other images posted to the wikiHow website.In addition to HVAC and air conditioning units, Victor also specializes in furnace repair and air duct cleaning. He has over 10 years of experience working with HVAC systems.However, you should be replacing your filters at least every 3 months, and inspect your outdoor condenser for any debris, as well. I would also recommend covering your AC condenser for the winter to protect it from snow.Unavailability of a vacuum pump can lead to major issues in the AC.Following the manufacturers instructions for wiring is crucial.If not, then some issues may arise, such as leaked refrigerant, etc.For example, does longer length mean a reduced capacity To have an idea on how much capacity drop you are going to have, take a look at the capacity correction factor chart, which is widely available either in the installation manual or engineering data book of your product. As long as its anchored to the concrete for earthquake retrofit, youre fine. What is that gas The indoor unit is usually shipped with a vacuum sealed in. If you open the valve, air will rush in, and it might seem like gas is escaping.The accuracy should be within 20g.What should I do If that doesnt work, check the gas level in the unit. Victor Belavus is an Air Conditioning Specialist and the Owner of 212 HVAC, an air condition repair and installation company based in Brooklyn, New York. He has over 10 years of experience working with HVAC systems. This article has been viewed 966,592 times.However, if you decide to do the work yourself, mount the indoor air conditioning unit on an interior wall away from direct heat or light sources. Run the piping and wiring from the indoor unit through a hole in the wall, then attach a PVC drainage pipe to the unit, running down the exterior of the wall where the unit is attached.

Next, install the outdoor condenser on a level concrete pad, then connect the electrical wires and the copper pipes. Keep reading to learn how to bleed the air and humidity from the refrigerant circuit! By continuing to use our site, you agree to our cookie policy. Please help us continue to

provide you with our trusted howto guides and videos for free by whitelisting wikiHow on your ad blocker. If you really can’t stand to see another ad again, then please consider supporting our work with a contribution to wikiHow. AUS07H53R010Px AUS09H53R010Px MUP12HI. Fault diagnosis by symptom 13. Control specification 17. To disassemble mechanical parts 23. Exploded views and parts list 27. Wiring diagrams 35. 31. 1. SAFETY PRECAUTIONS. The following safety precautions must be taken when using your air conditioner. 1. Warning Prior to repair, disconnect the power cord. Keep the height distance between the indoor and outdoor unit at most 5m. Mount on the wall solid enough to bear the weight of the unit and not cause any shake. AUS07H53R010Px AUS09H53R010Px MUP12HI. Wiring diagrams 35. 31. 1. SAFETY PRECAUTIONS. The following safety precautions must be taken when using your air conditioner. 1. Warning Prior to repair, disconnect the power cord. 2 2. Use proper parts use only exact replacement parts. Also, we recommend replacing parts rather than repairing them.. 3. Use the proper tools use the proper tools and test equipment, and know how to use them. Using defective tools or test equipment may cause problems laterintermittent contact, for example. 4. Power cord prior to repair, check the power cord and replace it if necessary. 5. Avoid using an extension cord, and avoid tapping into a power cord. This practice may result in malfunction or fire. 6. After completing repairs and reassembly, check the insulation resistance. 3 Procedure prior to applying power, measure the resistance between the power cord and the ground terminal. The resistance must be greater than 30 megohms. 7.

Make sure that the grounds are adequate. 8. Make sure that the installation conditions are satisfactory. Relocate the unit if necessary. 9. Keep children away from the unit while it is being repaired. 10. Be sure to clean the unit and its surrounding area. INSTALLATION. Selecting area for installation Select an area for installation that is suitable to the customers needs. 1 Location of indoor unit Keep the air inlet and outlet at a far distance from the blockage. 4 Keep the height distance between the indoor and outdoor unit at most 5m. Mount on the wall solid enough to bear the weight of the unit and not cause any shake. Avoid direct sunshine. A place easy for condensate drain and easy for connecting with the outdoor unit. Keep a far distance away from the fluorescent lamp, it may influence the operation of remote controller. Keep at least 1m away from the TV radio and other home appliances. 2 Location of outdoor unit A place solid enough to bear the weight of the unit and not cause any shake. 5 Good ventilation, less dust, far from direct rain and sunshine. A place where the air discharged out of the outdoor unit or the operation noise will not annoy your neighbours. No blockage near the outdoor unit. Avoid places close to inflammable gas leakage. Caution It is harmful to the air conditioner if it is used in the following environments greasy areas including area near machines. Salty area such as coastal areas, areas where sulfuric gas is present such as hot spring areas. Contact your dealer for advice. 2. INSTALLATION. 6 Installation diagram of indoor unit and outdoor unit Confirm the installation position by the mark of the indoor mounting plate.The copper pipe can be led Notice do not elevate the from back, right, underside, drain hose.When the expansion bolts are used, two holes 11 20 or 11 26 that the distance between them is 450mm should be adopted. Drill on the wall Pipe hole Center of hole 65mm Center of hole 65mm.

9 Operation the position of the wall hole according to the chart If it need to orientat a hole on the left side of the mounting plate, please refer to the method of orientating the right wall hole in the above chart.Remove the screw from electrical box cover, pull the electrical box cover away from the unit and set aside. Screw Remove the screw from fastener, pull the fastener away from the unit and set aside. Connect the cable. 10 Indoor unit terminal Connecting cable Replace the fastener and electrical box cover. NOTE The appliance shall be installed in accordance with national wiring regulations. The appliance must not be installed in the laundry. The appliance must be installed above the floor. The appliance must be positioned so that the plug is accessible.Always use the appliance with the air filter mounted. The use of the conditioner without air filter could cause an excessive. Relies on the air conditioner ’s power to quickly purify the air in the room. ELECTRONIC AIR CLEAN FILTER Install for use inside of the dust collection unit. For details on how to install the

filter, please refer to page 15. Special adjustment may be necessary to suit local requirements. Be sure to read before installing the air conditioner. Be sure to observe the cautions specified here as they include important items related to safety. Getting Other Informations and Publications. 3 Wall Mount General Information Air Conditioner Wall Mount Model Nomenclature. Supply ducts and registers i.e., openings in the walls, floors, or ceilings covered by grills carry cooled air from the air conditioner to the home. This cooled air becomes warmer as it circulates through the home; then it flows back to the central air conditioner through return ducts and registers. To learn how central air conditioners compare to other cooling systems, check out our Energy Saver 101 Infographic Home Cooling.

Air conditioners help to dehumidify the incoming air, but in extremely humid climates or in cases where the air conditioner is oversized, it may not achieve a low humidity. Running a dehumidifier in your air conditioned home will increase your energy use, both for the dehumidifier itself and because the air conditioner will require more energy to cool your house. In other words, dont use the systems central fan to provide air circulation use circulating fans in individual rooms. In a splitsystem central air conditioner, an outdoor metal cabinet contains the condenser and compressor, and an indoor cabinet contains the evaporator. In many splitsystem air conditioners, this indoor cabinet also contains a furnace or the indoor part of a heat pump. The air conditioners evaporator coil is installed in the cabinet or main supply duct of this furnace or heat pump. If your home already has a furnace but no air conditioner, a splitsystem is the most economical central air conditioner to install. In a packaged central air conditioner, the evaporator, condenser, and compressor are all located in one cabinet, which usually is placed on a roof or on a concrete slab next to the houses foundation. This type of air conditioner also is used in small commercial buildings. Air supply and return ducts come from indoors through the homes exterior wall or roof to connect with the packaged air conditioner, which is usually located outdoors. Packaged air conditioners often include electric heating coils or a natural gas furnace. This combination of air conditioner and central heater eliminates the need for a separate furnace indoors. In addition, they are out of the way, quiet, and convenient to operate. To save energy and money, you should try to buy an energyefficient air conditioner and reduce your central air conditioners energy use.

In an average airconditioned home, air conditioning consumes more than 2,000 kilowatthours of electricity per year, causing power plants to emit about 3,500 pounds of carbon dioxide and 31 pounds of sulfur dioxide. If you are considering adding central air conditioning to your home, the deciding factor may be the need for ductwork. If you have an older central air conditioner, you might choose to replace the outdoor compressor with a modern, highefficiency unit. If you do so, consult a local heating and cooling contractor to assure that the new compressor is properly matched to the indoor unit. However, considering recent changes in refrigerants and air conditioning designs, it might be wiser to replace the entire system. Todays best air conditioners use 30% to 50% less energy to produce the same amount of cooling as air conditioners made in the mid 1970s. Even if your air conditioner is only 10 years old, you may save 20% to 40% of your cooling energy costs by replacing it with a newer, more efficient model. Proper sizing and installation are key elements in determining air conditioner efficiency. Too large a unit will not adequately remove humidity. Too small a unit will not be able to attain a comfortable temperature on the hottest days. Improper unit location, lack of insulation, and improper duct installation can greatly diminish efficiency. When buying an air conditioner, look for a model with a high efficiency. Central air conditioners are rated according to their seasonal energy efficiency ratio SEER. SEER indicates the relative amount of energy needed to provide a specific cooling output. Many older systems have SEER ratings of 6 or less. If your air conditioner is old, consider buying an energyefficient model. New residential central air conditioner standards went into effect on January 1, 2015; see the efficiency standards for central air conditioners for details, and consider purchasing a system with a higher SEER than the minimum for greater savings.

Manufacturers typically continue to support existing equipment by making replacement parts available and honoring maintenance contracts after the new standard goes into effect. Other features to look for when buying an air conditioner include A thermal expansion valve and a hightemperature rating EER greater than 11.6, for highefficiency operation when the weather is at its hottest A variable speed air handler for new ventilation systems A unit that operates quietly A fanonly switch, so you can use the unit for nighttime ventilation to substantially reduce airconditioning costs A filter check light to remind you to check the filter after a predetermined number of operating hours An automaticdelay fan switch to turn off the fan a few minutes after the compressor turns off. However, many air conditioners are not installed correctly. As an unfortunate result, modern energyefficient air conditioners can perform almost as poorly as older inefficient models.

When installing a new central air conditioning system, be sure that your contractor Allows adequate indoor space for the installation, maintenance, and repair of the new system, and installs an access door in the furnace or duct to provide a way to clean the evaporator coil Uses a ductsizing methodology such as the Air Conditioning Contractors of America ACCA Manual D Ensures there are enough supply registers to deliver cool air and enough return air registers to carry warm house air back to the air conditioner Installs duct work within the conditioned space, not in the attic, wherever possible Seals all ducts with duct mastic and heavily insulates attic ducts Locates the condensing unit where its noise will not keep you or your neighbors awake at night, if possible Locates the condensing unit where no nearby objects will block airflow to it Verifies that the newly installed air conditioner has the exact refrigerant charge and airflow rate specified by the manufacturer Locates the thermostat away from heat sources, such as windows or supply registers. If you are replacing an older or failed split system, be sure that the evaporator coil is replaced with a new one that exactly matches the condenser coil in the new condensing unit. The air conditioners efficiency will likely not improve if the existing evaporator coil is left in place; in fact, the old coil could cause the new compressor to fail prematurely.. We have no relationship with advertisers, products, or services discussed at this website. But here are some general rules of thumb for air conditioner or heat pump clearances that we will cite here. Large overhanging soffits may cause air recirculation Cleaning of the outdoor unit’s coil should be performed by a trained service technician. Contact your dealer and set up a schedule preferably twice a year, but at least once a year to inspect and service your outdoor unit.

Appliances shall be accessible for inspection, service, repair and replacement without removing permanent construction, other appliances, or any other piping or ducts not connected to the appliance being inspected, serviced, repaired or replaced. Installation of room heaters shall be permitted with at least an 18inch 457 mm working space. A platform shall not be required for room heaters. The depth of the working space in the direction of live parts shall not be less than that specified in Table 110.26A1 unless the requirements of 110.26A1a, A1b, orA1c are met. Perhaps in the units installation guide youll see some schematic on clearances thats different. Is this a noise complaint or an air flow concern Any recommendation on the length.The installation is nicelooking and neat though. Ive not seen a specific standard for that distance and doubt one exists. In general the condenser ought to be far enough away from the fill and vent valves that there is The room next to the two units is always too cold in winter or too warm in summer compared to the other rooms in the house. The heat pumps blow air up and we can see that the air hits the windows on that side of the house. A rule of thumb is to assure that there is at least 4 ft.If this is the case, the distance clearance from the side of a unit through which no air is expected to flow is probably less critical though you should still be careful that multiple units placed too close together are not competing for the same air. Still, I had a building inspector tell me thats not up to installation code. Id attach a picture if I could. What do you think But mostlikely you wont find an explicit clearance distance from the gas fireplace heater vent cap to an air conditioning compressor.

As niether codes nor manufacturers can anticipate and explicitly prohibit every creative snafu that an installer may invent, a manufacturer whose instructions we reviewed also states There might also be a corrosive effect on the condensing coil, though Ive not found reference to that problem. Watch out It does draw in air to cool the condensing coil. Where either these conditions are possible Id increase the clearance distance to 10 feet or 3 meters. Mr. Hankey is a past chairman of the ASHI Standards Committee. Mr. Hankey has served in other ASHI professional and leadership roles.Alan Carson is a past president of ASHI, the American Society of Home Inspectors. Carson Dunlop Associates provides extensive home inspection education and report writing material. The text is intended as a reference guide to help building owners operate and maintain their home effectively. Field inspection worksheets are included at the back of the volume. Special Offer For a 10% discount on any number of copies of the Home Reference Book purchased as a single order. InspectAPedia.com editor Daniel Friedman is a contributing author. Or choose the The HOME REFERENCE eBook for PCs, Macs, Kindle, iPad, iPhone, or Android Smart Phones. Special Offer For a 5% discount on any number of copies of the Home Reference eBook purchased as a single order. All specifications subject to change without prior notice according to Carrier policy of continuous development.Management SystemEnviromental. Management SystemSafety. Management SystemRev. 0 2013Quality Control conditions. Therefore you are completely responsible for proper installation completion and operation of the airCarefully read the manual carefully before proceeding with the installation to ensure correctMake sure all accessory parts are with the system before beginning installation. You will need the following tools during installationPhillips head screw driver. Hole core drill. Tape measure. Water level. Pipe clamp. Pipe cutter. Spanner.

ReamerPipe bender. Hexagonal wrench. Torque wrench. Vacuum pump. Gas leak detector. Manifold gauge. Thermometer. Electrical circuit tester. After completion of installation, perform a run test and give the customer fullLeave the owner manual with the customer so that it can to be used during operation of the airLeave the installation manual with the customer so that it can be used for any service andAdvise the customer to the tips of energy saving while operating the air conditionerDuringSimilarly, when disassembling, disconnect the electrical wiring first and only then openWhat is not covered in Carrier warrantyAs these electricalInstallation must be done by Carrier or one of Carrier authorized dealers.Service and maintenance must be done by Carrier or one of Carrier authorized dealers.All repair works must be done by Carrier or one of CarrierThe decision of Carrier in ascertaining the same will be final. Any such repairs will be carried out at the expense of the owner purchaser .UnitModel. Indoor Unit. Model. Outdoor Unit. System. ModelDifference. Indoor temperature. MaximumMaximumDifference. MaximumMaximumMin. Voltage 198. Max. Voltage 254After completions of defrost cycle, the system will normally operateKg. KgMounting. Dimensions. ModelDimensionsModelKgWall Installation. Dimensions mm. Select installation location so that the wall hole required to pass the outlet refrigerantThe unit indoor hides the refrigerant lineselectrical cables and condensate drain line. Avoid installation location which can lead toAvoid installation location which can lead toCONSIDERATIONS OF SELECTING INSTALLATION LOCATION Cont..

Select installation location which permit theAvoid installation of the indoor unit at tooAvoid installation location which isAvoid installation location which is near toAvoid installation location where there areAvoid an installation location, which has anAvoid an installation location which has anSelect installation location which has flat wall surface to allow easy and safe installation. The wall structure should be strong enough to carry the unit weight and avoidAvoid installation location which can leadAvoid installation location which can leadAvoid installation location where there areAvoid multiple unit installation with unitsCONSIDERATIONS FOR SELECTING INSTALLATION LOCATION Cont.. Select the installation location of outdoor unit which is able to support operating weightSelect the installation location of outdoor unit which is far away from the directSelect the installation location of outdoor unit which is far away from heat sources,Select the installation

location of outdoor unit which is free of dust or any material,When installing unit on the ground, selectAvoid installation location which is full of oil vapors which may result in malfunction. Avoid installation location which is full of sulfuric gas which may result in malfunction. Select installation location where the operation noise and discharged air are notWhen the installation is made on the rooftop or other places subject to strong wind. When the outdoor unit is to be installed on the rooftop or at the places where there are no otherWhen there are walls in the vicinity, the air outlet When the air outlet is affected by the strong wind,Select installation location which allows theObstacle at unit back air inlet Obstacle at unit topObstacle at unit right and left sidesThe back of outdoor unit air inlet The left side of outdoor unitThe right side of outdoor unit air inlet The top side of outdoor unitSELECTING INSTALLATION LOCATION OF OUTOOR UNIT Cont.