

# OWNER'S GUIDE

## ***OPERATION & INSTALLATION***



***Air V***

### ***CARRIER RECREATIONAL VEHICLE AIR CONDITIONER***

### ***HEAT PUMP UNIT FOR DUCTED SYSTEM***

#### **PRODUCT INFORMATION**

Model Number \_\_\_\_\_

Date in Service \_\_\_\_\_

Unit Serial Number \_\_\_\_\_

Ceiling Assembly Serial Number \_\_\_\_\_

#### **INSTALLER**

Date of Installation \_\_\_\_\_

Name \_\_\_\_\_

Address \_\_\_\_\_

Phone \_\_\_\_\_



## Important!!!

You must register your product either:

Online at [www.airv.carrier.com](http://www.airv.carrier.com)

OR

Mail in the completed paper form supplied with your product.



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## A FEW WORDS ABOUT YOUR NEW AIR CONDITIONING UNIT

Thank you for choosing the Air V, Carrier Recreational Vehicle Air Conditioner, for your comfort needs. You can feel confident in your selection because the same pride in craftsmanship and engineering knowledge that goes into Carrier equipment to cool the Astrodome in Texas, the famous Sistine Chapel in Rome, the Washington DC Halls of Congress and thousands of other installations worldwide has gone into the construction of your unit.

In addition to cooling the room, your Carrier heat pump unit will also heat, filter and dehumidify the room's air. In heating mode, the heat pump will shut down at conditions which would cause outdoor coil freeze up, generally near freezing temperatures.

The Air V air conditioners quietly give you maximum cooling and heating comfort. Now you can "Feel Carrier's Comfort"!

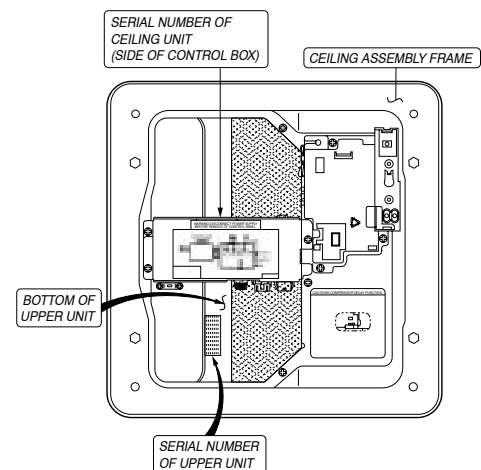
This manual is designed to help you with all the information you need for installing, operating and maintaining your new unit. In addition, this contains many comforts and technological features your unit offers. Take a few minutes to discover how to get the most in cooling or heating comfort and economic operation from your new Air V.

Please keep this manual handy for future reference, and be sure to send in your warranty card. You can also contact us by the internet web site, [www.airv.carrier.com](http://www.airv.carrier.com).

## ELECTRICAL DATA

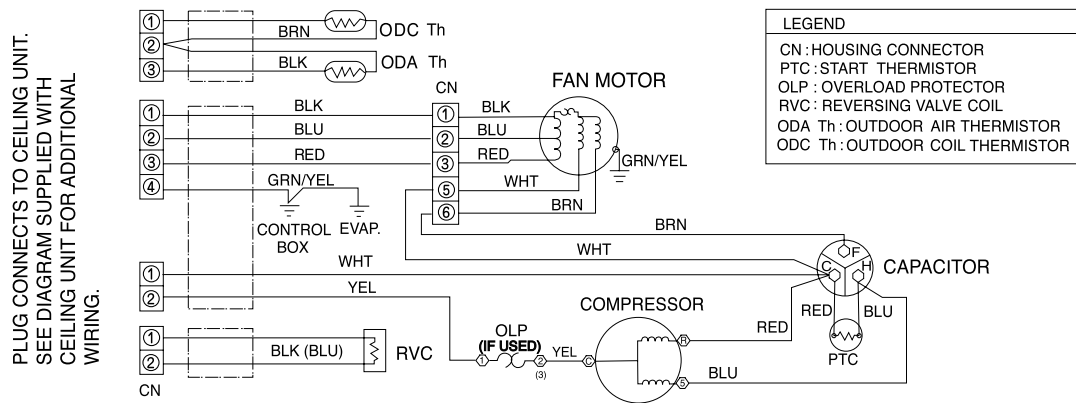
- 1 All wiring must comply with local and national electrical codes. All wiring must be installed by qualified electricians. If you have any questions about the following instructions, contact a qualified electrician.
- 2 Check the available power supply and resolve any wiring problems **BEFORE** installing and operating this unit.
- 3 This roof mount heat pump is designed to operate from a **115V AC, 60Hz, 1 Phase** power supply.
- 4 The unit nameplate is located on the left side of the condenser orifice that is on the rear of the basepan. The wiring diagrams are located on the cover of the control box. The ceiling assembly unit wire diagrams are located on the control box cover of ceiling panel frame.
- 5 Note the unit's model, serial number, and the ceiling assembly serial number. Record this information on the front cover of this manual.

Bottom View after Installation with Grille Removed  
(Information of Serial Number Location)

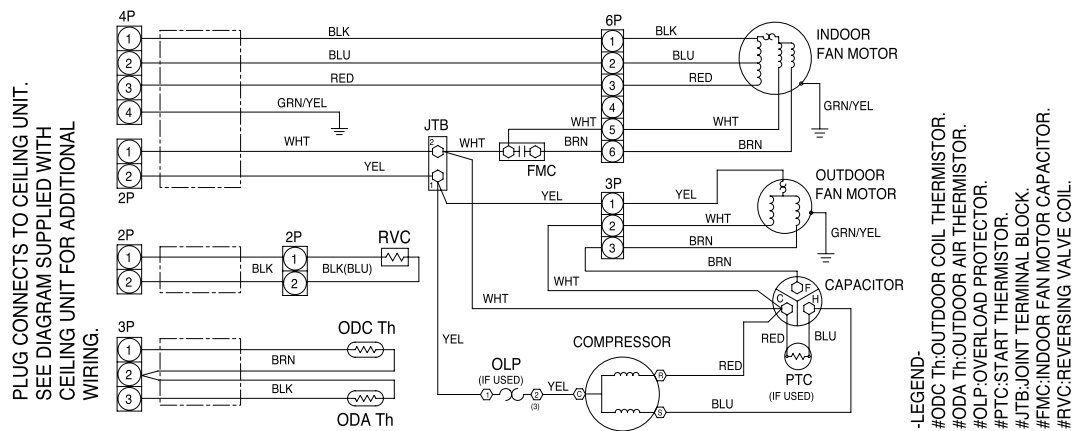


## SCHEMATIC DIAGRAM of Upper Unit

### • Standard Unit (99-00468-06, -07)

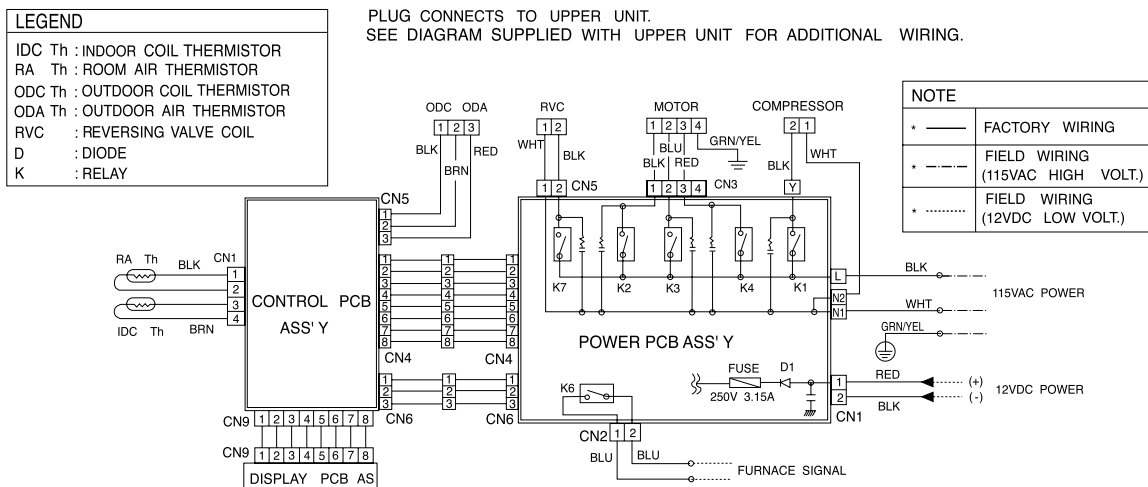


### • Low Profile Unit (99-00468-13)



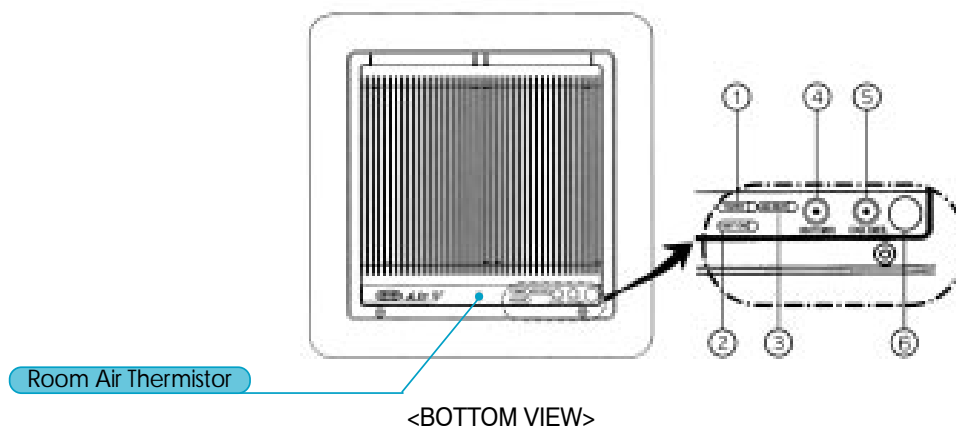
And

## Schematic Diagram of Ceiling Unit



# OPERATING INSTRUCTIONS

## CEILING UNIT DISPLAY



- ① **TIMER(Orange)**: When the unit is in reservation on/off timer mode, an orange light will be displayed.
- ② **UNIT ON(Green)**: When the unit is switched on by the remote control or the emergency button, a green light will be displayed.
- ③ **AUXILIARY HEAT (Red)** : if the outdoor ambient temperature or the outdoor coil temperature is down at conditions which would cause outdoor coil freeze up in the heat pump mode, the control will automatically select the FURNACE operation and the 'AUX.HEA' LED (a red light) will be displayed. The unit will return to the Heat pump operation and the 'AUX.HEAT' LED will turn off when both the outdoor ambient temperature and the outdoor coil temperature are above 43°F. If your vehicle dose not contain a furnace, and the control automatically selects the FURNACE operation in the Heat pum mode, the system will shut down until the control returns to the Heat Pump operation.
- ④ **HEAT EMERGENCY button** : Can be used when the remote control is lost or inoperative. When the remote control is lost, damaged or the battery is discharged, the HEAT EMERGENCY button can be used to run the unit.
  - Press the HEAT EMERGENCY button when in the off mode condition.
    - The unit operates automatically according to the room temperature in the heating operation.
  - The setting conditions of heat emergency operation are as follows:
 

- Operation mode: HEAT	- Preset temperature: 73°F
- Fan Speed: AUTO	- Timer mode: Disable

## IMPORTANT

**Defrost Operation** : When the outdoor coil is frosted in the heating mode, the indoor blower and outdoor fan will be turned off while the compressor will turn on to remove the frost on the outdoor coil. The defrost mode stops in 10minutes or when the defrosting process is completed. When the power is off, the defrost operation is automatically conducted depends on the frost accumulation on the outdoor coil.

- ⑤ **COOL EMERGENCY button**: also can be used when the remote control is lost or inoperative. When the remote control is lost, damaged or the battery is discharged, the COOL EMERGENCY button can be used to run the unit.
  - Press the COOL EMERGENCY button when in the off mode condition.
    - The unit operates automatically according to the room temperature in the cooling operation.
  - The setting conditions of cool emergency operation are as follows:
 

- Operation mode: COOL	- Preset temperature: 75°F
- Fan Speed: AUTO	- Timer mode: Disable

## NOTE

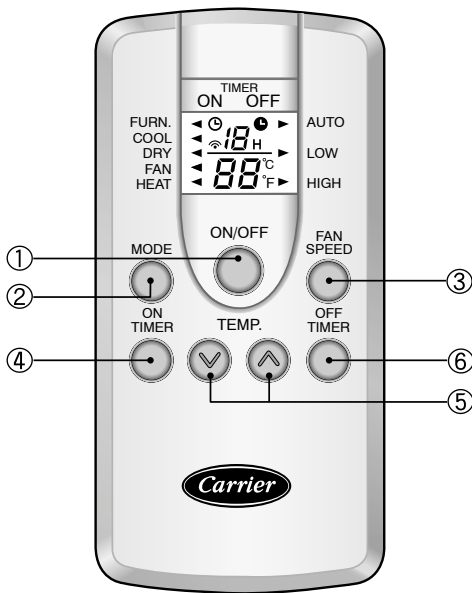
If you want to stop the emergency operation, push the EMERGENCY button again or operate the remote control.

- \* **TEST MODE:** Installer can operate the unit anytime regardless of temperature by pushing Emergency Button (COOL or HEAT) more than 5 seconds continuously after installing the unit. (This function is only used by servicemen to test the unit operation.)
- \* **Refrigerant Compressor Time Delay :** The air conditioning system is equipped with a time delay on the compressor during the start of the cooling cycle. This time delay may be up to 3 minutes at the time of start up.

### ⑥ REMOTE CONTROL SIGNAL RECEIVER

## REMOTE CONTROL DESCRIPTIONS

### Names and Functions of the Buttons



1. On/Off Button
2. Mode Selector Button
3. Fan Speed Selector Button
4. On Timer Button
5. Temperature Selector Buttons
6. Off Timer Button

**1 ON/OFF BUTTON** - If you press this button, the unit will begin operation. (You can hear receiving beeps twice.) Press the button again, and operation stops. (You can hear a receiving beep.) If you press this button immediately after turning off the unit, the compressor will not operate for 3 minutes to prevent overloading.

**2 MODE SELECTOR BUTTON** - Press this button to select the desired mode. In COOL mode, the unit will run at the normal cooling mode. In DRY mode, the microcomputer of the unit controls the fan motor and makes the unit automatically cycle on and off according to the room temperature. This enables the moisture to be removed more efficiently. In FAN mode, only the fan will operate at the selected fan speed and circulate the room air. In HEAT mode, the unit will run at the normal heat pump mode. And in FURN. mode, the unit will run at the normal furnace mode (This is a user optional function.).

**3 FAN SPEED SELECTOR BUTTON** - Press this button to select the desired fan speed of HIGH, LOW or AUTO in turn, and the fan will operate at the selected fan speed. If you select "AUTO", the fan speed will be controlled by the microcomputer of the unit.

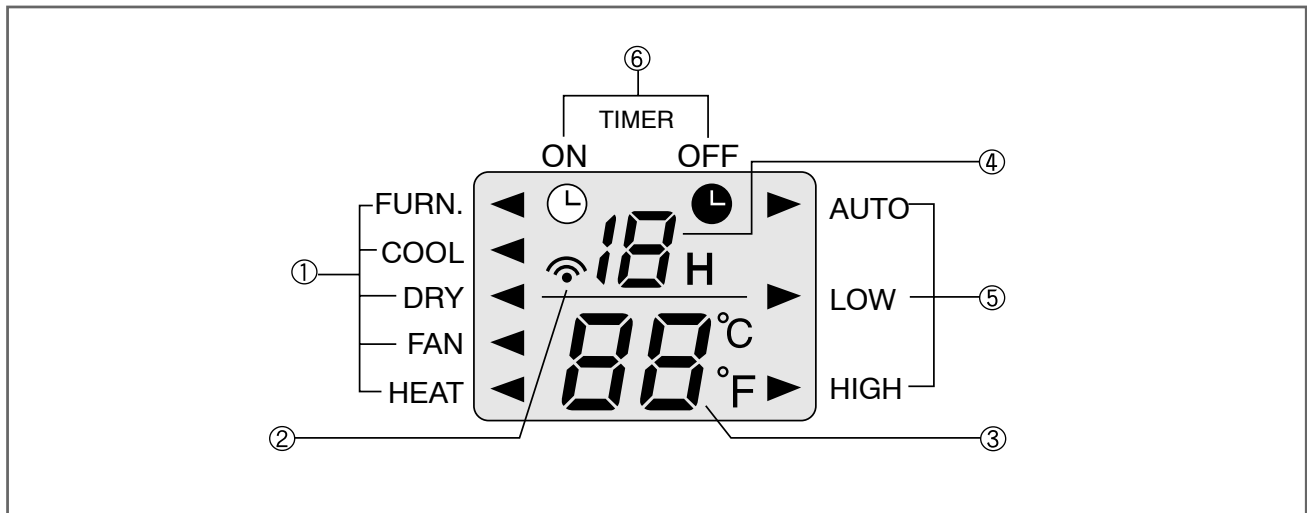
**5 TEMPERATURE SELECTOR BUTTONS** - If you set the desired room temperature, then the unit will maintain the room temperature at the set temperature. In COOL mode, if the room temperature is higher than setting, the compressor will be automatically turned on to provide a cooling effect. If the room temperature is lower than the setting, the compressor will be automatically turned off to stop cooling operation. However, the fan will continue to circulate air even if the compressor is turned off. In HEAT mode, if the room tem-

**4 ON TIMER BUTTON** - When the unit is turned off, press the ON TIMER button to select the desired time, in hours, for the unit to turn on.

perature is lower than setting, the compressor will be automatically turned on to provide a heating effect. If the room temperature is higher than the setting, the compressor will be automatically turned off to stop heating operation. However, the fan will continue to circulate air even if the compressor is turned off.

**6 OFF TIMER BUTTON** - When the unit is turned on, press the OFF TIMER button to select the desired time, in hours, for the unit to turn off.

## Remote Control Display



**1** Indicates the selected operating mode.

**2** Lights up when the signal from the remote control is transmitted. The receiving beep is heard from the unit.

**3** Indicated the selected temperature.

**4** Indicates the selected or remaining time of the ON TIMER and OFF TIMER modes.

**5** Indicates the selected fan speed.

**6** Indicates the selected timer mode, namely, ON TIMER or OFF TIMER mode.

## REMOTE CONTROL PREPARATION

### Replacing Batteries

- 1 Remove the cover of the battery compartment at the back of the remote control by sliding it out.
- 2 Remove the old batteries and insert the new batteries. The remote control uses two alkaline batteries. (1.5V, LR03x2)
- 3 Press the RST button with a sharp object to reset the remote control before closing the cover of the battery compartment.

#### NOTE

- Do not fit used batteries or batteries of different type. Such use may cause the unit to malfunction.
- Changing batteries should be done after turning off the unit.
- The average battery life during normal use is one year approximately.
- When the air conditioner does not operate normally after replacing the batteries, remove the batteries, refit them and repress the **RST** button after 5 seconds.

### Signal Receiving

Use the remote control where its signal can reach the receiver of the air conditioner.

- You can hear the beeping sound from the unit in the remote control operation, which indicates that the signal is received.

#### CAUTION

- The air conditioner will not operate if curtains, doors or other materials block the signals from the remote control to the unit.
- If the infrared signal receiver on the unit is exposed to direct sunlight, the air conditioner may not work properly. Draw the curtains to avoid direct sunlight.
- Avoid spilling liquid onto the remote control or dropping it. This can cause deformation, dislocation and malfunction.
- A mounting bracket for the remote control is supplied with the unit. Install the mounting bracket on the wall by using two sharp point wood screws and/or double sided tape attached on the back of the bracket. This prevents the remote control from being lost.



# UNIT OPERATION

## GENERAL OPERATION

### PROCEDURE

#### 1 **ON/OFF** button

Press button and the COOL operation is indicated.

- Receiving beeps are heard.
- The green UNIT ON lamp of the indoor unit display illuminates.

#### 2 **MODE** button

Press this button to select the desired operation.

COOL → DRY → FAN → HEAT → FURN.

#### 3 **FAN SPEED** button

Press this button to select the desired fan speed.

HIGH → LOW → AUTO

#### 4 **ON TIMER** button

To set the desired ON time from setting time, continue to depress and release this button.

1hr → 2hr → 3hr → 4hr → 5hr → 6hr → 7hr → 8hr → 9hr → 10hr → 11hr → 12hr → cancel

This ON TIMER can be set only in OFF mode.

#### 5 **TEMPERATURE** (▼ ▲) buttons

Press this button to set the desired temperature. (63°F~90°F)

- To decrease the desired room temperature, keep to depress or continue to depress and release ▼ button.
- To increase the desired room temperature, keep to depress or continue to depress and release ▲ button.

#### 6 **OFF TIMER** button

To set the desired OFF time from setting time, continue to depress and release this button.

1hr → 2hr → 3hr → 4hr → 5hr → 6hr → 7hr → 8hr → 9hr → 10hr → 11hr → 12hr → cancel

This OFF TIMER can be set only in ON mode.

## ENERGY SAVING TIPS

- 1 Select the temperature setting that suits your comfort needs and leave it at that chosen setting.
- 2 Keep the unit's air filters clean. (See the Normal Maintenance Procedures section of this manual on page 19.)
- 3 During extreme outdoor temperatures, the heat gain of the vehicle may be reduced by:
  - parking the vehicle in a shaded area
  - keeping the windows and doors closed
  - avoiding the use of heat producing appliances
  - using window shades (blinds and/or curtains)

For a more permanent solution to reduce the high heat gain, window awnings and/or window glass tinting should be considered.
- 4 When using the heating system, the heat loss of the vehicle may be reduced by:
  - parking the vehicle in a sunny area
  - keeping the windows and doors closed
  - avoiding the use of heat absorbing appliances

## INSTALLATION INSTRUCTIONS

### **BEFORE INSTALLATION**

Test run the unit with proper power supply outlet. Refer to the Operating Instructions section in this Owner's Guide. Make sure all the controls operate correctly then disconnect the power supply of the unit.

### **WARNING**

Moving parts can cause personal injury. Be careful when test-running the unit.  
Do not operate the unit with exterior cover removed.

### **CEILING ASSEMBLY FRAME INSTALLATION REQUIREMENTS**

- 1 The ceiling assembly frame must be installed over the roof opening. The ceiling assembly frame bolts to the bottom of the roof top unit. Compression of the framed ceiling cavity between the roof top unit and the ceiling assembly frame is what holds both components in place.
- 2 Provided with the ceiling assembly frame is a telescoping divider assembly which is used to separate the warm return air from the cold supply air. The telescoping divider size is determined by measuring the ceiling cavity depth. (the measurement from the ceiling to the roof)

Telescoping Divider #	Range
71DC6A3006 (supplied)	3.25" ~ 4.25"
71DC6A3005	2.0" ~ 2.75"
71DC6A3007	5.0" ~ 6.0"

## IMPORTANT

Upon installation, the divider must be raised to and sealed with both the bottom of the roof top unit and the sides of the roof opening.

- 3 The 115 VAC service for the roof top unit must be connected into the ceiling assembly frame. To prevent wire pinching and to promote ease of installation, allowances must be made for routing the 115 VAC supply wiring into the front of the roof opening.
- 4 The ceiling assembly frame has pin sockets extending from the front of the electrical box. This mates with the roof top unit 115 volt electrical conduit. When making this connection, verify that the plugs are properly aligned and have snapped together securely.

## SUPPLY DUCTING AND REGISTERS

### A. Ducting

- 1 The field fabricated supply ducting must attach to both sides of the ceiling assembly frame. A minimum of two ducts are required, with one duct attached to each side of the ceiling assembly frame. See Figures 1 and 2 for both an overhead view of the system with ducts and a ceiling assembly/ceiling cavity installation.
- 2 Each duct must have a minimum height of 1 1/2", maximum height cannot exceed 4 inches. Total free area inside each duct must be no less than 10 square inches.

### NOTE

To decrease restriction and increase air flow, the ducting should make as few bends and turns as possible. When corners or turns are required, we recommended that you radius the corners to keep air flow at a maximum. Ten (10) square inches of free area per duct is the minimum requirement, **larger ducting will improve air flow and system performance.**

- 3 When ducting secures to the ceiling assembly frame, maximum width is 8 inches and maximum height is 3 1/2" .
- 4 All field fabricated cold air supply ducting must be insulated and must have a vapor barrier.

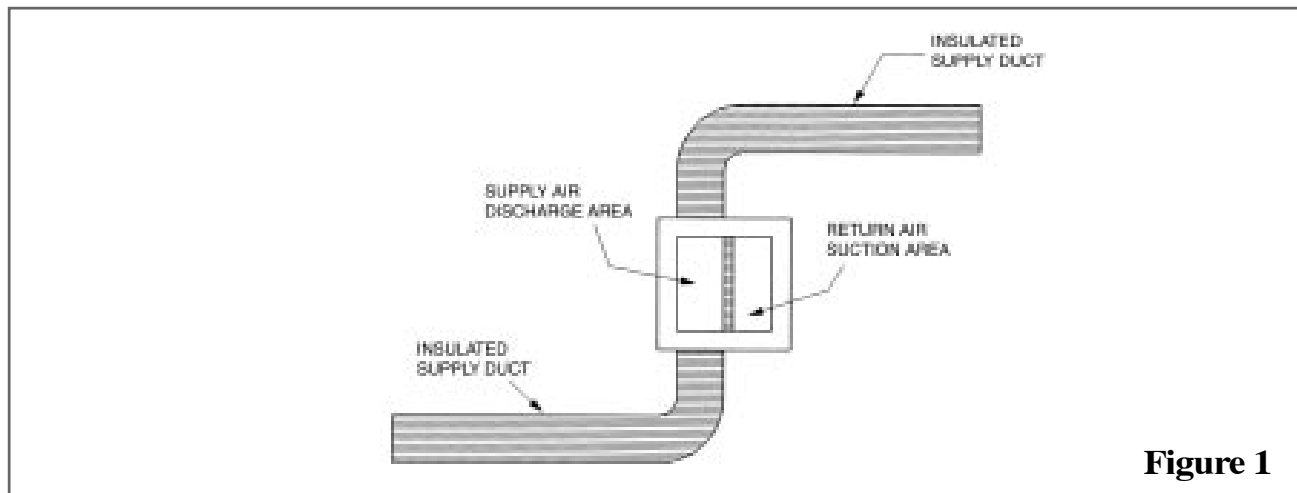


Figure 1

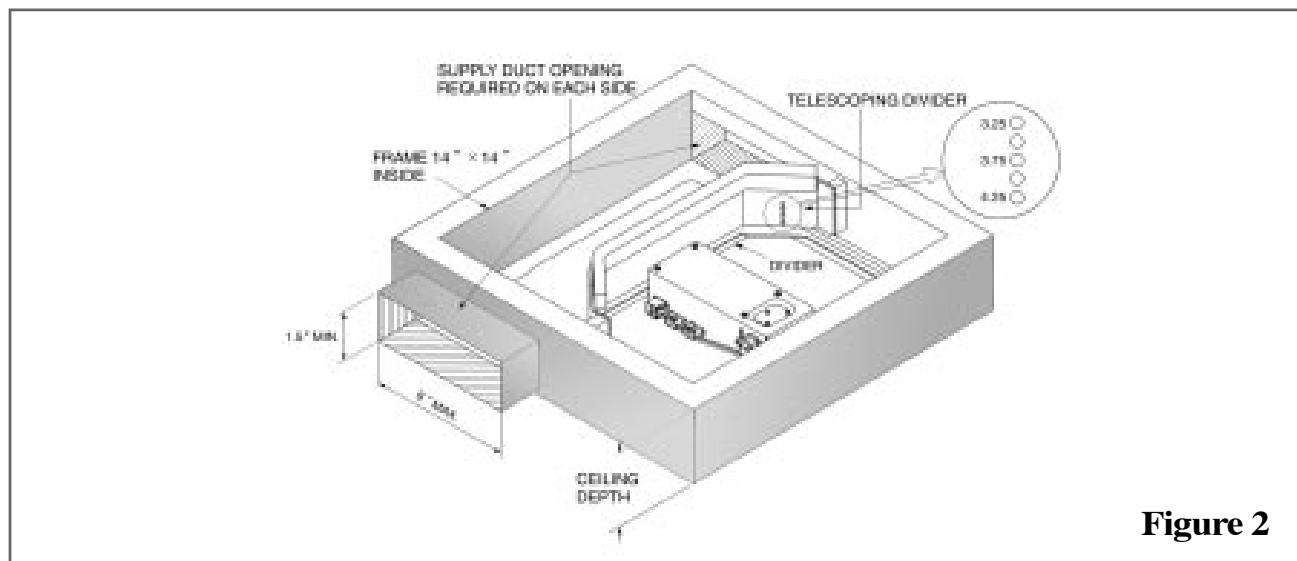


Figure 2

## IMPORTANT

Insulating reduces cooling loss and helps prevent water staining of the vehicle ceiling due to moisture condensation.

### B. Registers

- Supply (cold air) registers should have a minimum discharge area of 48 square inches per system, or 24 square inches per duct. Figure 3 shows how to determine the discharge area for a given register, and how to determine the number of registers required.

The register in Figure 3 provides 6 square inches of discharge area. Each duct would require 4 registers of this size to satisfy the 24" requirement.

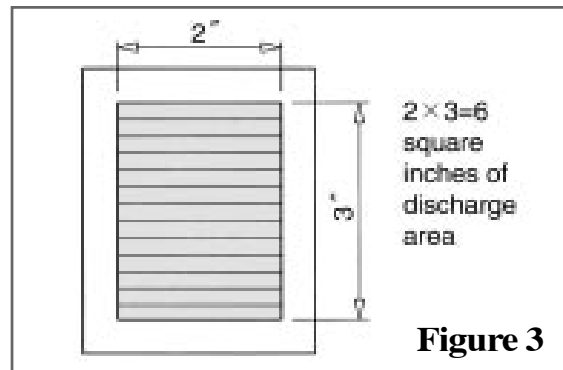
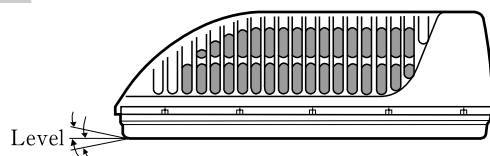


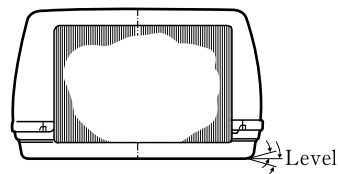
Figure 3

- The Additional Register Requirements are as follows:

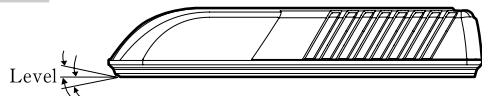
	Min.	Max.		Min.	Max.
*Distance from Duct End	5"	8"	*Distance from End of Elbow	15"	-
*Distance between Registers	24"	-	*Total Number Required per system	4	8
*Number Required per Duct	2	-			

**Standard Unit**

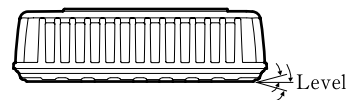
Above Level 10° Max.  
Below Level 0° Max.



Above or Below  
Level 10° Max.

**Low Profile Unit**

Above Level 5° Max.  
Below Level 20° Max.



Above or Below  
Level 5° Max.

**ALLOWABLE OFFSET FOR CARRIER AIR CONDITIONERS  
WITH CARRIER ROTARY COMPRESSORS**

**Figure 4**

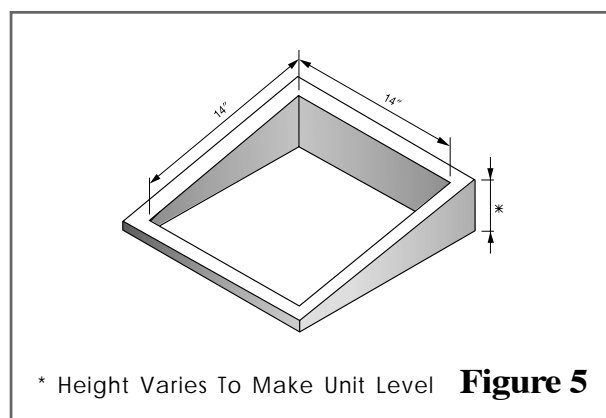
## PREPARATION AND POSITIONING THE ROOF TOP UNIT

**1** The roof top air conditioner must be mounted on a level plane from front to rear and side to side when the vehicle is parked on a level plane. Figure 4 shows maximum allowable degrees that the Air V can be mounted above or below level.

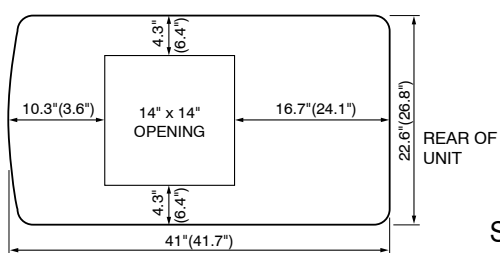
If the roof of the vehicle is sloped (not level) such that the roof top air conditioner cannot be mounted within the maximum allowable degree specifications, an exterior leveling shim will need to be added to make the Air V level. A typical leveling shim is shown in Figure 5.

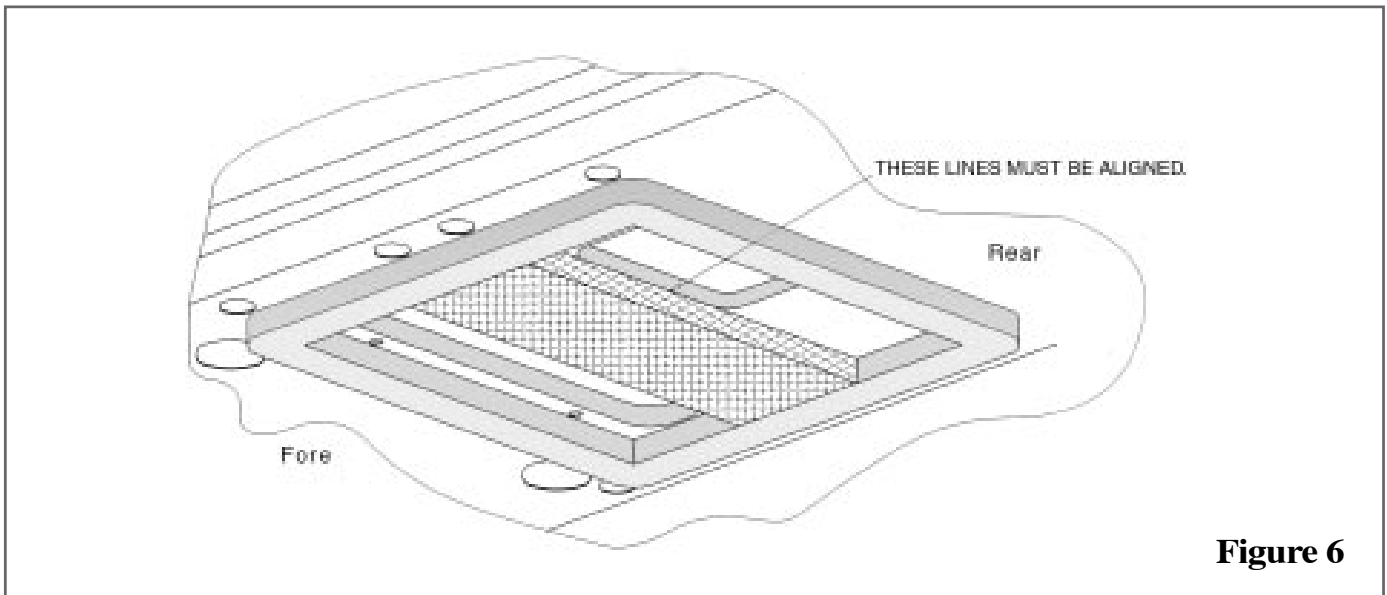
**2** Prepare the roof top unit for installation with the ceiling assembly.

**3** Install foam basepan pad at this time. See Figure 6. Pad is provided with adhesive on one side with release paper.

**Figure 5**

**4** Reach up into return air opening of the air conditioner and pull the unit electrical cord down for later connection.

**NOTE****AIR CONDITIONER DIMENSIONS (Roof Top Unit)****Standard (Low Profile)**

**Figure 6**

## CEILING ASSEMBLY FRAME PREPARATION AND MOUNTING

### A. Preparation

- 1 Secure foam topped, three-sided, telescoping divider plate (which is predetermined according to the measured thickness of the ceiling cavity, refer to p. 10) to the divider plate by tightening two screws, reference Figure 2 of page 11. The numbers located next to the mounting holes on the telescoping divider plate refer to the ceiling cavity depth. Install the thin seal divider pad at this time. See Figure 7. Pad is provided with adhesive on one side with release paper.

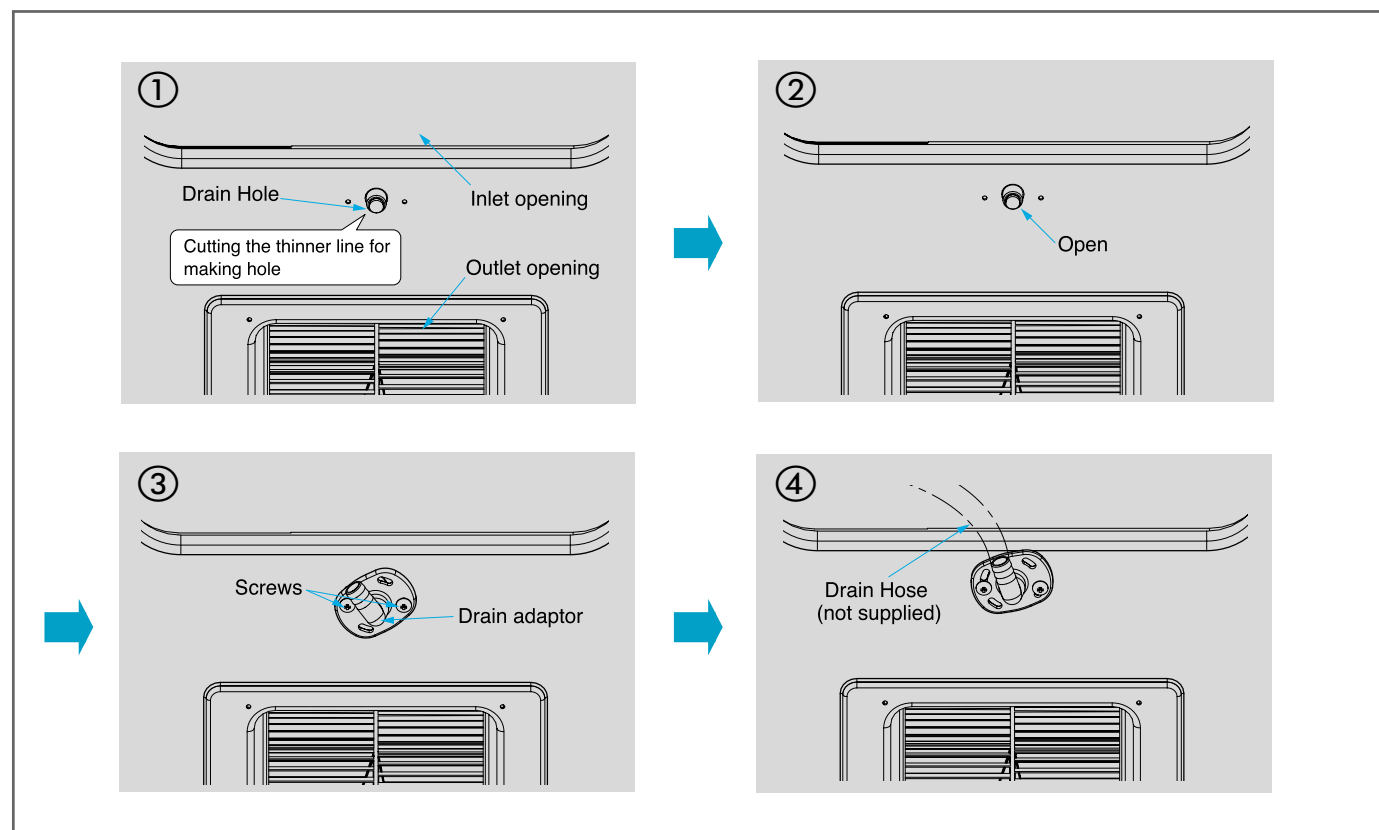
Familiarize yourself with the high voltage wiring box, strain relief and wiring. The 115V supply wiring must be routed through the strain relief in the high voltage wiring box and secured to wiring inside. Extend the three high voltage wiring box leads and prepare them for attachment to the supply wiring.

- 2 A low voltage terminal strip on the front of the box connects to the 12 VDC wires.

### NOTE Optional Drain System (for low profile unit: 99-00468-13)

If you want to use the optional drain system for evaporator condensate, you should cut the thinner line of drain hole as shown Figure 6-1. Install the drain adaptor with 2 screws. And a 1/2" I.D. hose must be provided that runs from the 14" square opening, through the vehicle ceiling and down the side wall to allow water to drain under the vehicle. The hose must not be allowed to kink shut while making a bend. Connect the top end of drain hose to the barbed fitting shown in Figure 6-1.

### HOW TO INSTALL THE DRAIN ADAPTOR (view from bottom side)



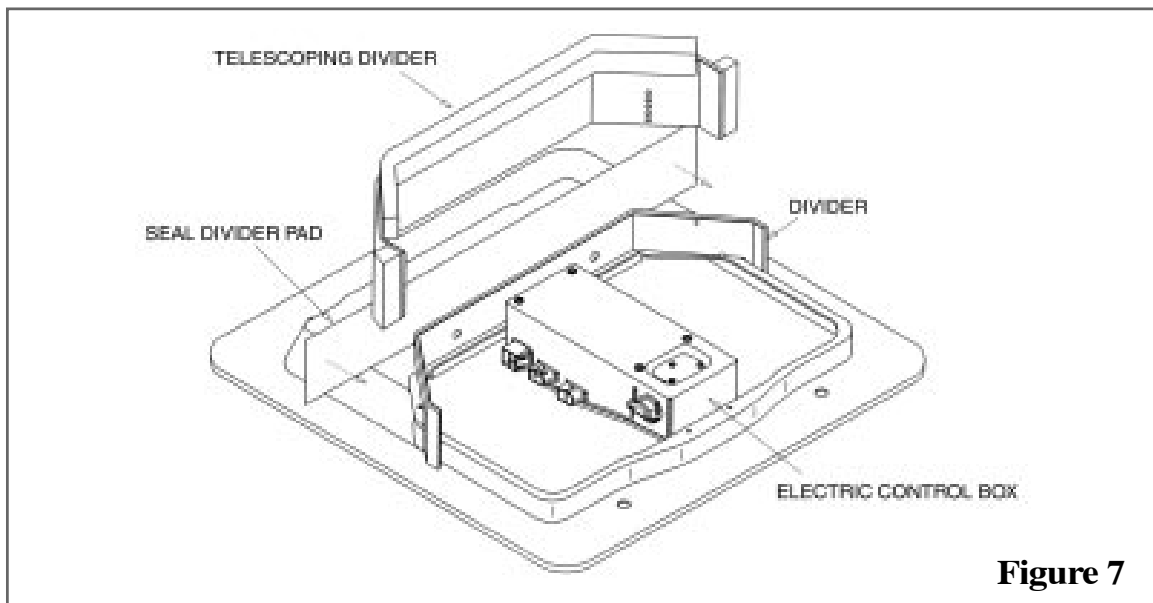
**Figure 6-1**

### B. Mounting

- 1 After having prepared the roof top unit, place it over the roof opening.
- 2 Position ceiling assembly frame into the ceiling opening. For proper orientation of the ceiling assembly frame, reference Figure 7.

### NOTE

When inserting the ceiling assembly frame into the roof opening, be careful not to pull the foam insulation away from the sides of the ceiling assembly. The insulation is required to create a positive air seal within the ceiling cavity.

**Figure 7**

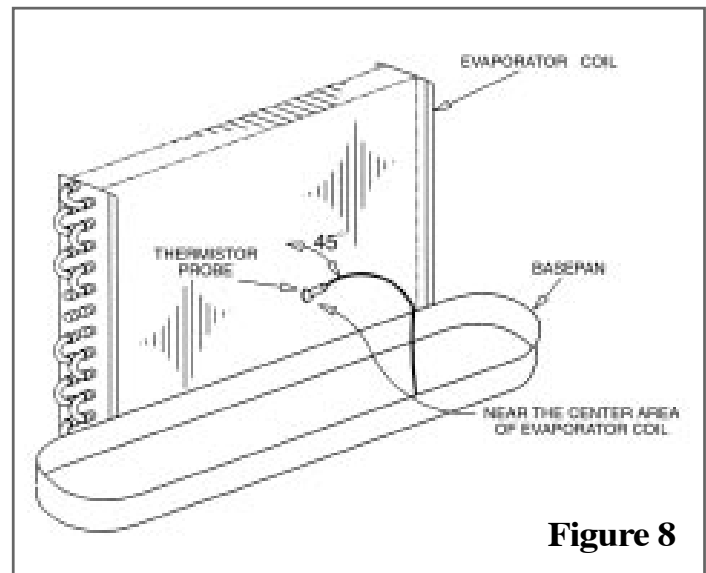
- 3** Using the four bolts provided, secure the ceiling assembly frame to the roof top unit. The four mounting bolts are to be applied up through the bottom of the ceiling assembly frame and into the bottom of the roof top unit.

#### NOTE

Mounting bolts should be tightened evenly. A rotating tightening procedure is essential for proper gasket compression. The bolt tightening procedure is complete when the gasket under the roof top unit has been evenly compressed to 60%.

- 4** Attached to the electrical circuitry of the ceiling assembly frame is a low temperature sensor. The low temperature sensor exits from the ceiling assembly frame electrical box. The freeze circuit thermistor probe (See Figure 8) installs by inserting it straight in the center area of evaporator coil, then raising the back of the probe and continuing at a 45° angle until the probe is fully inserted.

To gain access to the fins of the evaporator coil, reach up through the return air opening in the bottom of the roof top unit. See Figure 8.

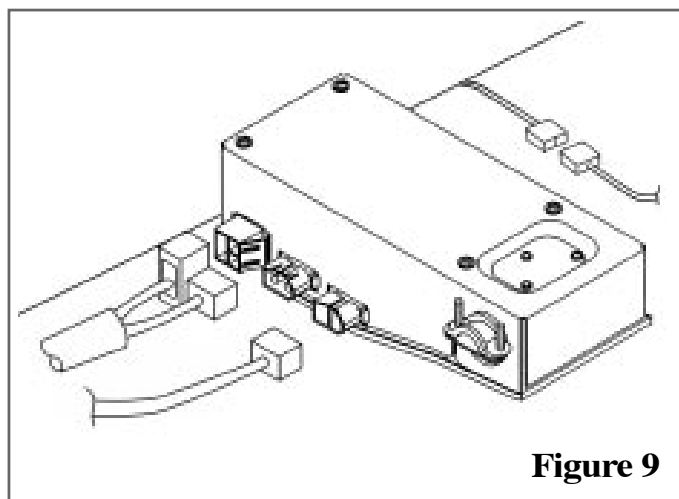
**Figure 8**

#### ⚠ WARNING

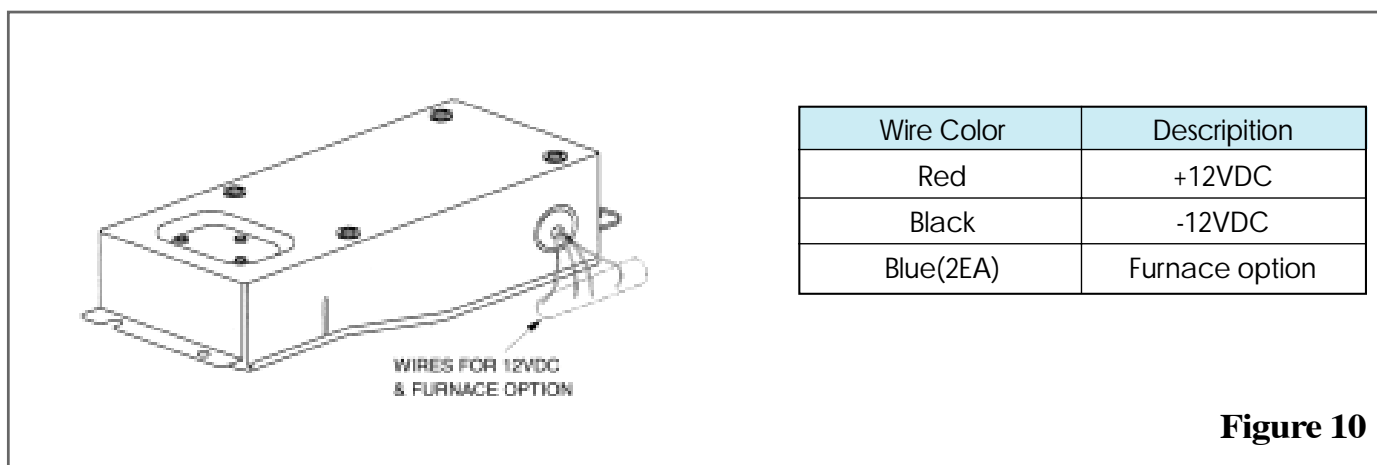
The sharp edges of evaporator coil may cause personal damage. Put on gloves when installing the thermistor probe. See Figure 8.



- 5** Route copper, with ground, supply wiring with minimum #12 AWG from its power source to the side of the junction box. Do not attach them at this time.
- 6** Take the roof top air conditioner electrical harness and plug it into the side of the electric control box. Verify that the "ridged" side of the connectors have snapped together on both sides. Do not use excessive force when joining the connectors. (See Figure 9)

**Figure 9**

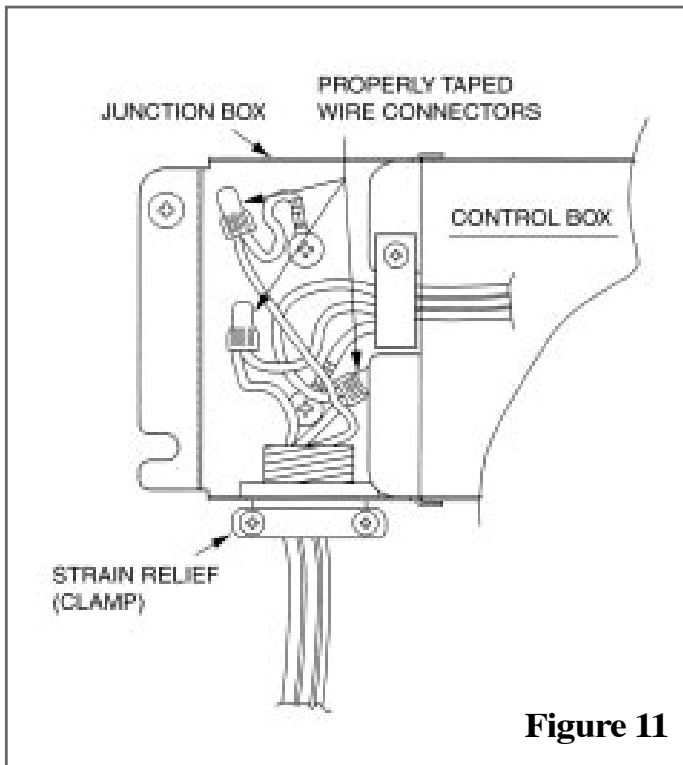
- 7** Connect the 12 VDC lines to the black and the red wires using UL approved electrician's tape. One supply lead must be +12 VDC and red in color. The second supply lead must be -12 VDC and black in color. **CAUTION!** - Connect red wire to +12 VDC wire, black wire to -12VDC wire. If a furnace is also to be operated, additional wiring (2 blue wires) will need to be routed. See Figure 10.

**Figure 10**

- 8** Remove the electric control box cover. (2 screws) Take the supply wire and slide it into the side of the junction box through the strain relief that is provided.

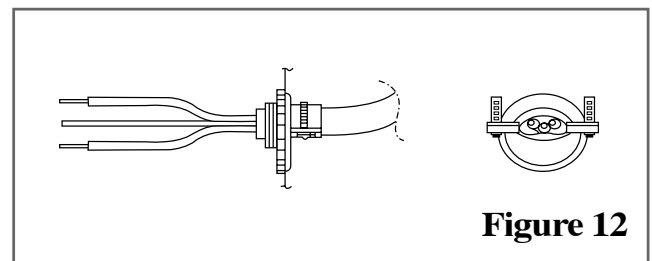
## DANGER

WHEN USING NON-METALLIC SHEATH SUPPLY CABLES, STRIP SHEATH BACK TO EXPOSE 4-6 INCHES OF THE SUPPLY LEADS; STRIP THE INDIVIDUAL WIRE LEAD ENDS FOR WIRE CONNECTION (ABOUT 3/4" BARE WIRE). INSERT THE SUPPLY WIRES INTO THE STRAIN RELIEF. WIRE SHEATH MUST PROTRUDE PAST STRAIN RELIEF. MAKE SURE SHEATH CABLE IS CENTERED IN STRAIN RELIEF BEFORE SNAPPING IT BACK INTO BOX. IF OTHER THAN NON-METALLIC CABLES ARE USED FOR SUPPLY CONDUCTORS, APPROPRIATE STRAIN RELIEF CONNECTORS OR CLAMPS SHOULD BE USED. THERE SHOULD BE NO CLAMPING OR PINCHING ACTION BE APPLIED TO THE INDIVIDUAL SUPPLY LEADS. (NEUTRAL AND "HOT" WIRES)



**9** Connect the power line to the black, white and ground wires found in the junction box using three wire connectors. **CAUTION** - Connect black wire to black wire, white wire to white wire and ground wire to ground wire. (green to bare copper) Using UL approved electrician's tape, secure the wire connectors in a workmanlike manner. See Figure 11.

**10** Tighten the strain relief clamp to secure the supply wire. **DO NOT OVERTIGHTEN**. See Figure 12. Reinstall electric control box cover.



## COMPLETING THE INSTALLATION

To complete the installation and system checkout requirements, the following steps must be performed.

- A. Check the room air thermistor position. Make sure the room air thermistor is routed through the holding guide, and is not touching any metal surface.
- B. Refer to p.19, and remove the air filters by pulling them.
- C. Secure the grille to the panel with 4 screws. At this time, take care of the position of the room air thermistor which must be mated with the thermistor hole of the grille.
- D. Reinstall the air filters.
- E. Turn on the power supply to the roof top air conditioner.

## TROUBLESHOOTING

If you have problems with your recreational vehicle air conditioner unit, check this guide before contacting your service representative.

TROUBLE	POSSIBLE CAUSES	SOLUTION
UNIT DOES NOT OPERATE	The unit may not be connected to the power supply correctly.	Check the power supply of the vehicle and make sure it is provided correctly.
THE UNIT IS NOT COOLING OR HEATING THE ROOM	There could be blockage of unit's air output.	Make sure that there are no obstacles restricting or blocking the unit's output.
	The roof top air conditioner is not level.	Mount the roof top air conditioner as level as possible from front to rear and side to side when the vehicle is parked. Make sure that the mounting of the air conditioner is correct and level.
	The air filter is dirty.	Remove and clean the filter.
THE UNIT IS NOT COOLING THE ROOM	The temperature setting is too high.	Reset the Air V to a lower temperature setting.
	The room was already very hot before the unit was turned on.	Allow a sufficient amount of time for unit to cool the room.
THE UNIT IS NOT HEATING THE ROOM	The temperature setting is too low.	Reset the Air V to a higher temperature setting.
	The room was already very cold before the unit was turned on.	Allow a sufficient amount of time for unit to heat the room.
THE UNIT IS MAKING NOISES	The unit is clicking and gurgling.	These noises are normal during the operation of the unit.
THE UNIT HAS WATER DRIPPING INSIDE	The basepan gasket has not been evenly compressed to about 60%.	Mounting bolts should be tightened evenly by compressing the basepan gasket to the sixty percent requirement.
THE UNIT HAS ICE OR FROST ON THE COILS	The filter is dirty.	Remove and clean the filter.
THE UNIT ON LAMP FLICKERS	The malfunction of the sensors or compressor is detected.	Contact the servicemen.

## NORMAL MAINTENANCE PROCEDURES

### ACTIVITY

Remove cover and wash the condenser coil

Remove cover and clean the water drains

Clean the filters\*

\*Generally, filters should be cleaned every 30 days.

The filters are very efficient in removing airborne particles.

More frequent cleaning may be necessary depending on the air quality.

### FREQUENCY

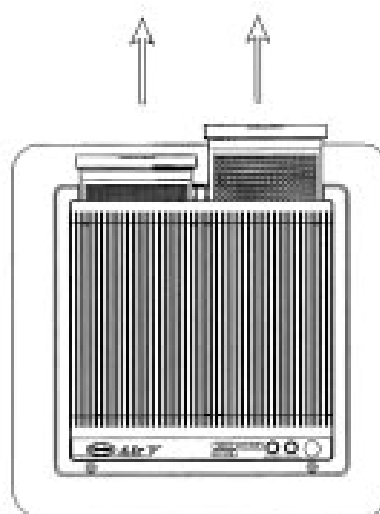
Twice a year

Yearly

Once a month

### How to Remove the Filters:

Remove the air filters by drawing slightly down and pulling them as illustrated righthand.



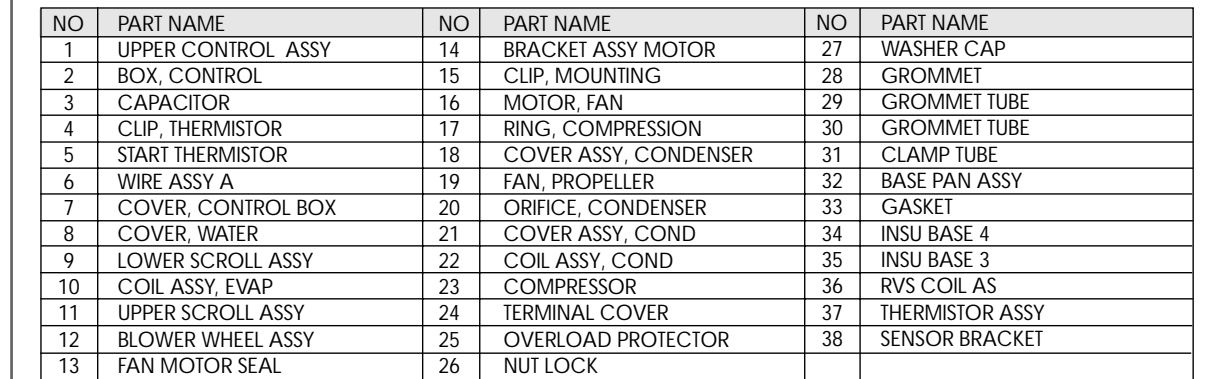
### How to Clean the Air Filters:

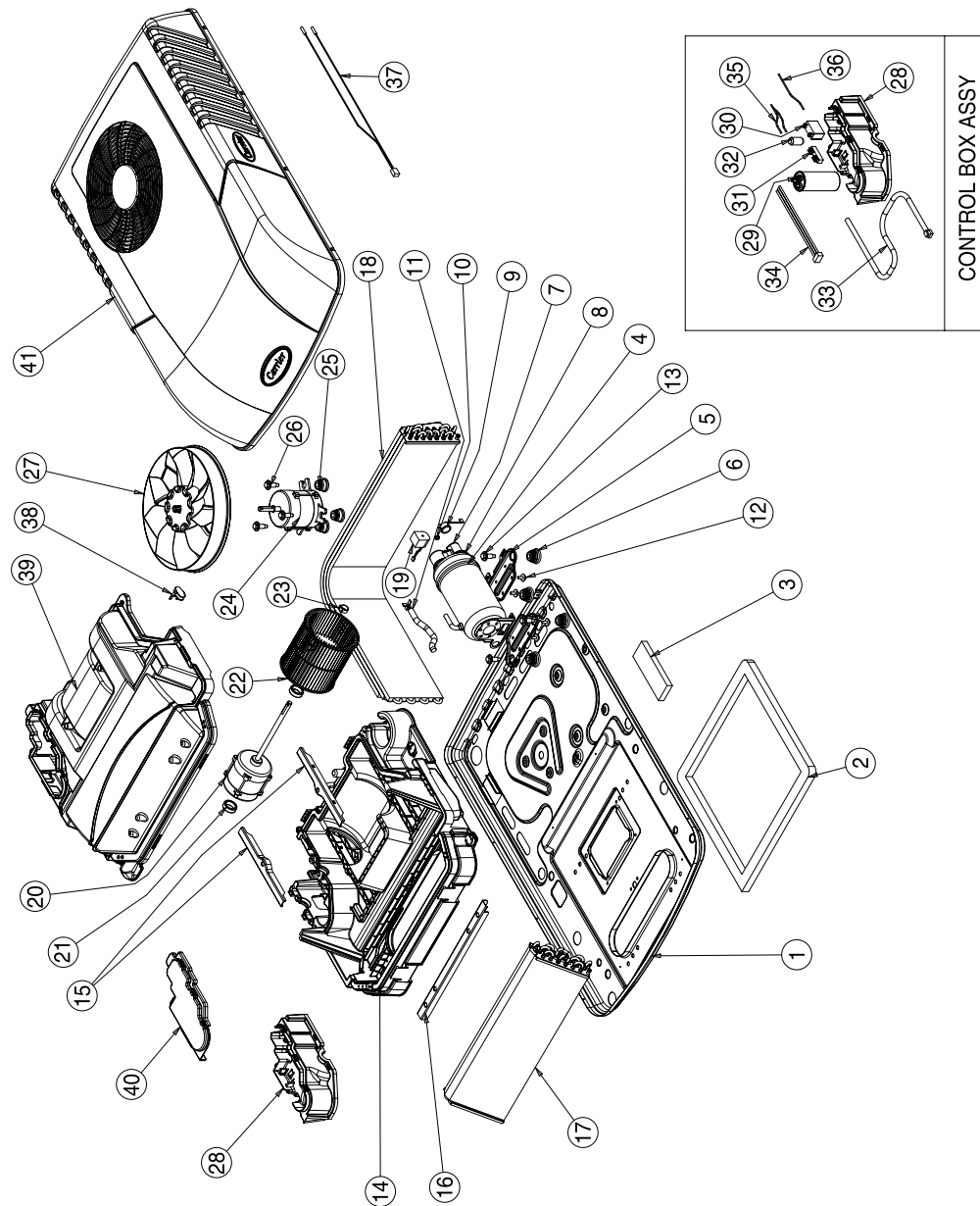
Wash away dust from the air filters with clean water or vacuum the filters with an electric household vacuum cleaner.

### WARNING

FAILURE TO FOLLOWING INSTRUCTIONS COULD RESULT IN SERIOUS PERSONAL INJURY

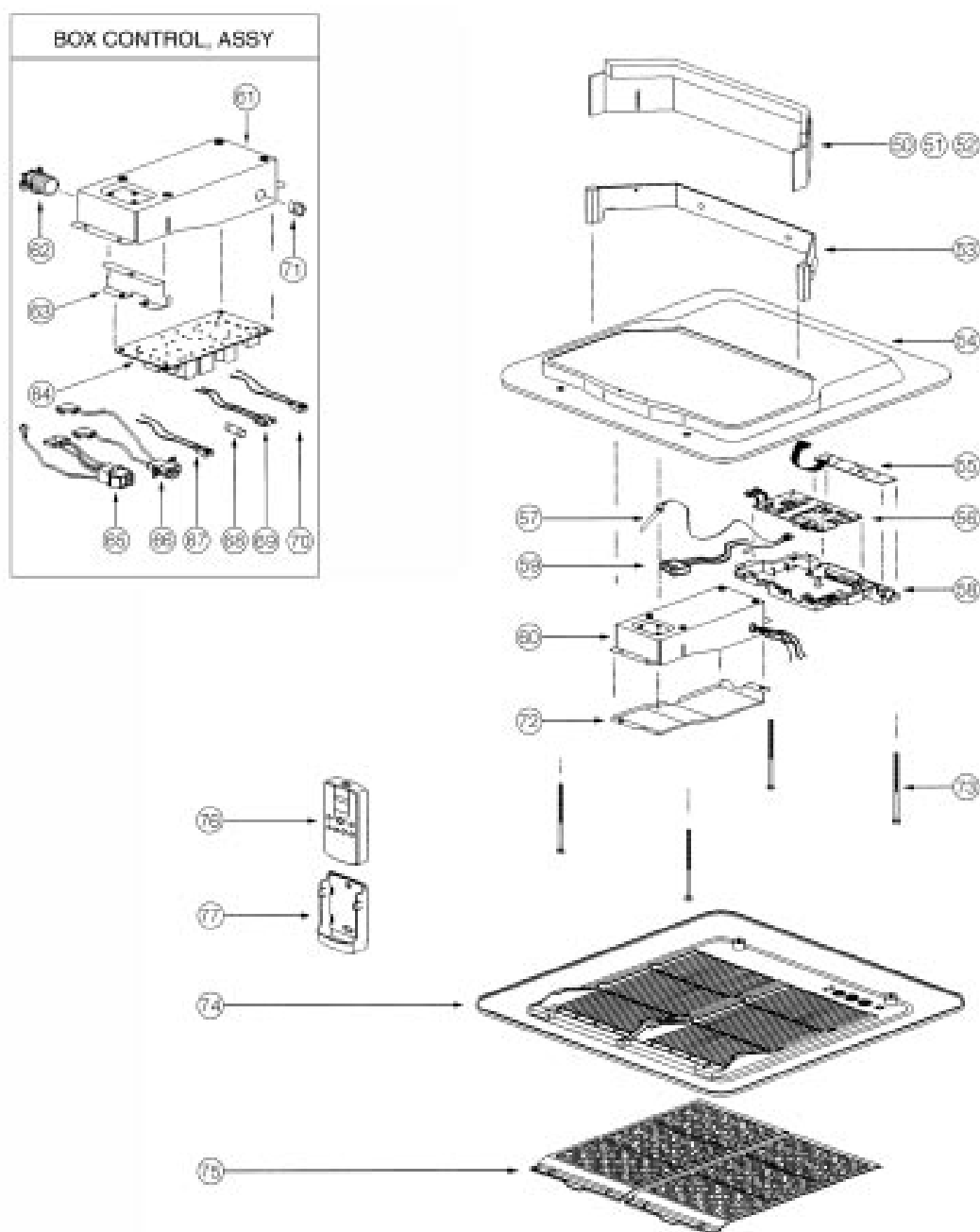
- Don't touch the capacitor terminals without the electric discharge. The capacitor still may have the high voltage even though the power supply is turned off.
- Be careful when you dispose the refrigerant cycle, which has the high internal pressure.

**UPPER UNIT** (Standard ; 99-00468-00, -01, -08, -09)

**UPPER UNIT (Low Profile ; 99-00468-13)**

NO	PART NAME	NO	PART NAME	NO	PART NAME
1	PAN AS, BASE	15	BRACKET AS 1, SUPPORT	29	CAPACITOR, DUAL
2	GASKET	16	BRACKET AS 2, SUPPORT	30	CAPACITOR, ID MOTOR
3	INSU BASE 3	17	FIN AS, EVAP	31	JOINT T/B
4	COMPRESSOR	18	FIN AS, COND	32	START THERMISTOR
5	PNT AS, COMP BRACKET	19	COIL AS, RVS	33	WIRE AS, A
6	GROMMET, COMP	20	MOTOR, INDOOR	34	WIRE AS, B
7	TERMINAL COVER	21	CUSHION, MOTOR	35	WIRE AS, C
8	TERMINAL GASKET	22	BLOWER WHEEL	36	WIRE AS, D
9	OVERLOAD PROTECTOR	23	RING, COMPRESSION	37	THERMISTOR AS
10	HEX. NUT FLANGED	24	MOTOR, OUTDOOR	38	HOLDER SENSOR AS
11	WIRE AS, COMP	25	GROMMET, MOTOR	39	SCROLL AS, UPPER
12	SCREW, COMP	26	STUD, MTR BOLT	40	COVER, CTRL BOX
13	BOLT AS, MOUNT	27	FAN	41	COVER AS, EXTERIOR
14	SCROLL AS, LOWER	28	BOX CONTROL		

## CEILING UNIT FOR DUCTED SYSTEM



NO	PART NAME	NO	PART NAME	NO	PART NAME
50	TELESCOPING DIVIDER ASSY 1 <sup>1)</sup>	60	BOX ASSY, CONTROL	70	WIRE ASSY,
51	TELESCOPING DIVIDER ASSY 2	61	SUB BOX ASSY, CONTROL	71	CORD PUSH
52	TELESCOPING DIVIDER ASSY 3 <sup>1)</sup>	62	STRAIN, RELIEF	72	CONTROL BOX COVER ASSY
53	DIVIDER ASSY	63	BARRIER	73	MOUNTING BOLT
54	INSU ASSY, FRAME PANEL	64	PCB ASSY, POWER	74	SUCTION GRILLE AS
55	PCB ASSY, DISPLAY	65	WIRE ASSY, B	75	FILTER ASSY
56	PCB ASSY, MAIN	66	WIRE ASSY, A	76	REMOTE CONTROL ASSY
57	THERMISTOR ASSY	67	WIRE ASSY, H	77	BRACKET ASSY, REMOTE CONTROL
58	COVER, PCB	68	FUSE (3AMP.)		
59	WIRE AS, G	69	WIRE ASSY, I		

<sup>1)</sup>NOT SUPPLIED (Refer to p.9)



**TRANSPORT AIR CONDITIONING**

P/N:71LQ6A54010



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Over the years of running a mobile RV repair service, having a dedicated place to access service manuals for all the different appliances and components found on RVs was something that I always had a desire to create.

I hope this resource makes your RV repairs easier, as it has mine, but please be careful and follow proper safety practices when attempting to repair your own RV.

If in doubt, please consult with a professional RV technician!



DARREN KOEPP - OWNER, MY RV WORKS, INC.

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