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**3314534.000
CARRIER TO BRISK**

**3314534.011
CARRIER TO PENGUIN**

**CONVERSION KITS FOR
DUCTED AIR CONDITIONERS ONLY
(NOT FOR USE ON HEAT PUMPS)
(NOT FOR USE ON MODELS WITH
PRE-INSTALLED CONTROL BOARDS)**

This kit will convert the following CARRIER models ONLY

Air Conditioner	with Return Air Grill
68RV14102A Standard	68RV0010KA
68RV15102A High Capacity	
68RV14103A Low Profile Std.	68RV0010KS
68RV15103A Low Profile High Cap.	

SERVICE INSTRUCTIONS

**3314534.000
3314534.011
CONVERSION KITS**

REVISION A

Form No. 3314525.019 01/17
(French 3314581.012_A)
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LaGrange, IN 46761



**Read these instructions carefully. These
instructions MUST stay with this product.**

INTRODUCTION

These instructions apply to our Carrier to Brisk and Carrier to Penguin conversion kits. This kit allows you to use your existing control devices with a new Brisk or Penguin air conditioner (hereinafter referred to as “unit,” “product,” or “air conditioner”). This kit will convert Carrier ducted air conditioners **ONLY** (not for use on heat pumps). Please make sure your model is supported before proceeding with this procedure. Use the following procedure to ensure a properly installed, and properly functioning unit.

Dometic Corporation reserves the right to modify appearances and specifications without notice.

TABLE OF CONTENTS

INTRODUCTION	2
DOCUMENT SYMBOLS	2
IMPORTANT SAFETY INSTRUCTIONS.....	3
A. Recognize Safety Information	3
B. Understand Signal Words.....	3
C. Supplemental Directives.....	3
D. General Safety Messages	3
GENERAL INFORMATION.....	3
A. Scope Of Delivery.....	3
B. Required tools	3
PROCEDURE.....	4
A. Remove Carrier Unit.....	4
B. Install Dometic Unit.....	5
C. Unit Checkout.....	7

DOCUMENT SYMBOLS



Indicates additional information that is not related to personal injury.



Indicates step-by-step instructions.

IMPORTANT SAFETY INSTRUCTIONS

This manual has safety information and instructions to help users eliminate or reduce the risk of accidents and injuries.

A. Recognize Safety Information



This is the safety alert symbol. It is used to alert you to potential physical injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

B. Understand Signal Words

A signal word will identify safety messages and property damage messages, and will indicate the degree or level of hazard seriousness.



WARNING **WARNING!** indicates a hazardous situation that, if not avoided, could result in death or serious injury.



CAUTION **CAUTION!** indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.

NOTICE

NOTICE. is used to address practices not related to physical injury.

C. Supplemental Directives



Read and follow all safety information and instructions to avoid possible injury or death.

Read and understand these instructions before servicing this product.

Incorrect servicing can lead to serious injury. Follow all service instructions.

The installation must comply with all applicable local or national codes.

All wiring must comply with the latest edition of ANSI/NFPA70 NEC and ANSI/A119.2 for recreational vehicles, and any other applicable electrical codes.

D. General Safety Messages



WARNING **FAILURE** to obey the following warnings could result in death or serious injury.

- This product **MUST** be serviced by a Dometic Corporation Service Center or a qualified service technician.
- Do **NOT** modify this product beyond the scope of these service instructions. Modification (beyond these service instructions) can be extremely hazardous.



CAUTION **FAILURE** to obey the following cautions could result in injury.

- CUT HAZARD. Wear protective gloves while handling or working near sheet metal components. Sheet metal parts could have sharp edges.

GENERAL INFORMATION

A. Scope Of Delivery

Common items:

- (1) Service Instructions
- (1) Wire Harness Adapter
- (4) 1/4"-20 X 4" L Mounting Bolt
- (4) 1/4"-20 X 7" L Mounting Bolt

Brisk only:

- (2) Adapter Bar (Brisk)

Penguin only:

- (1) Front Adapter Bar (Penguin)
- (1) Rear Adapter Bar (Penguin)

B. Required tools

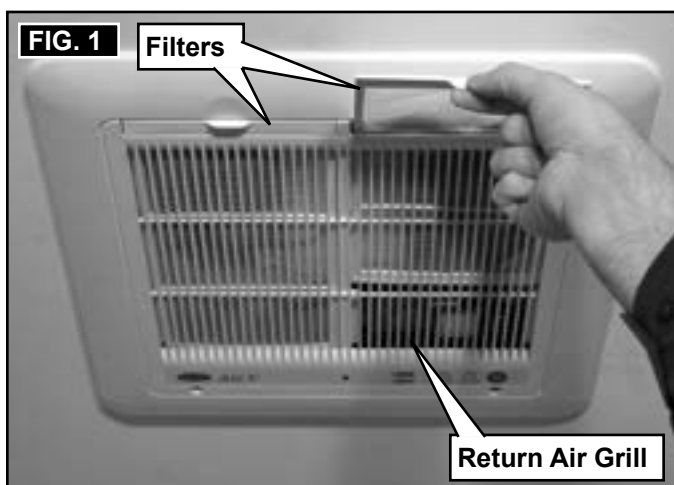
- Torque Wrench
- Electric Drill
- Phillips Head Screwdriver / Bit
- 3/8" Nut Driver / Socket
- 1/2" Nut Driver / Socket

PROCEDURE

A. Remove Carrier Unit

 Your old Carrier unit may have minor differences from what's pictured within these instructions.

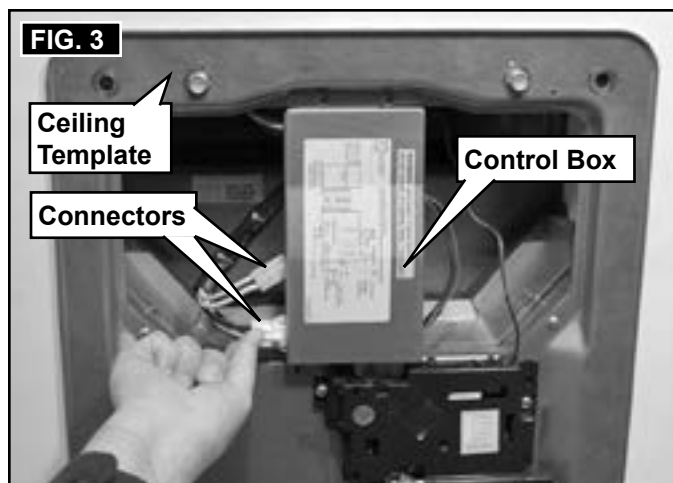
-  1. **WARNING!** ELECTRICAL SHOCK HAZARD. Disconnect 120 Vac power from RV. Failure to obey this warning could result in death or serious injury.
2. **NOTICE.** Disconnect the positive (+) 12 Vdc terminal from supply battery. Otherwise, damage to unit could occur.
3. Slide out filters to remove from return air grill. Save for reinstallation later. See (FIG. 1).



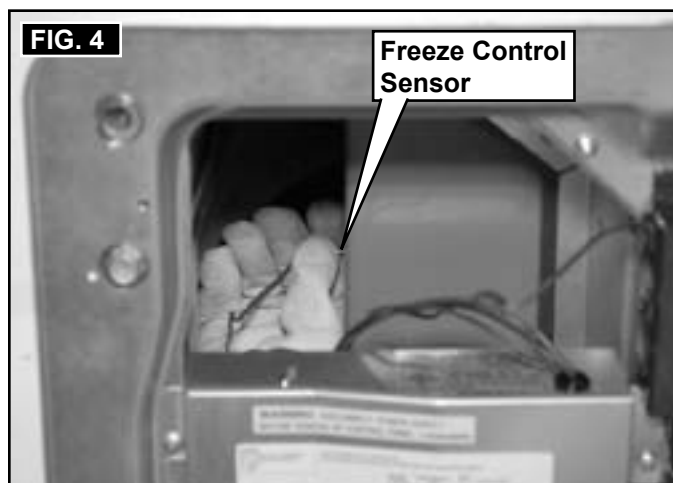
4. Remove return air cover (with screws) from unit. Save for reinstallation later. See (FIG. 2).



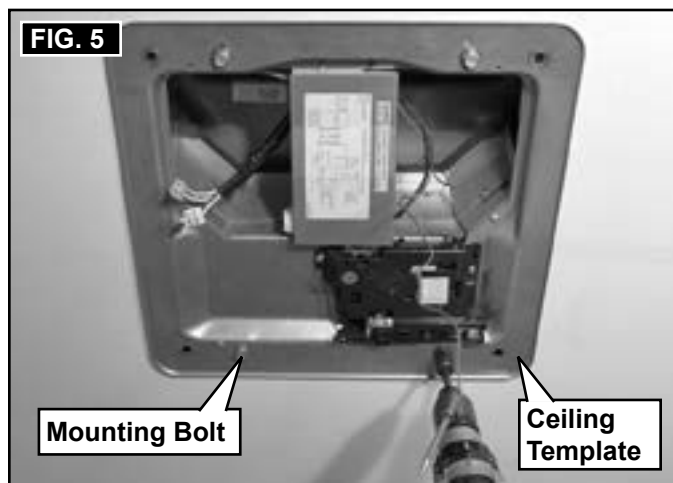
5. Unplug connectors from control box (on ceiling template). See (FIG. 3).



6. Pull freeze control sensor out from evaporator coil fins. Allow sensor to hang out of the way for reinstallation later. See (FIG. 4).



7. Remove ceiling template (with mounting bolts). Allow ceiling template to hang out of the way for reinstallation later. Discard mounting bolts. See (FIG. 5).



PROCEDURE

8. **CAUTION! LIFTING HAZARD.** Use proper lifting technique and control when lifting product. Failure to obey this caution could result in injury.
With a mechanical lift, remove Carrier unit from RV roof.

B. Install Dometic Unit

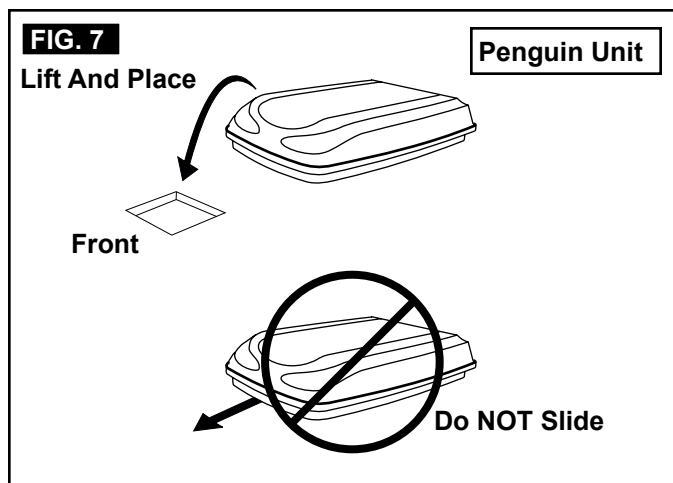
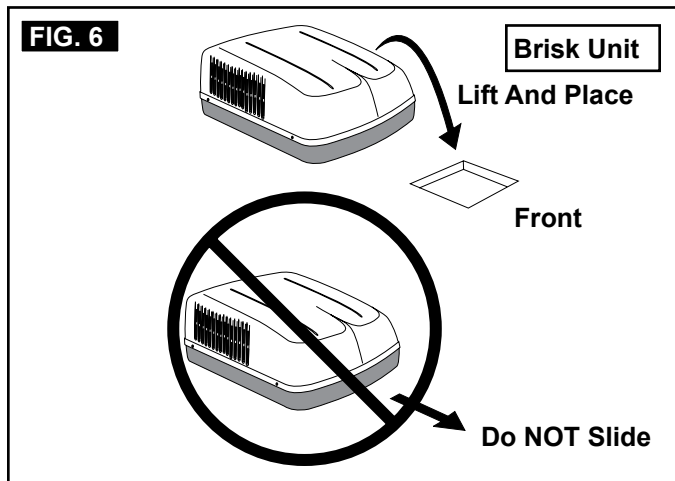
⚠ WARNING FAILURE to obey the following warnings could result in death or serious injury.

- Incorrect installation could endanger life. This product **MUST** be installed by a Dometic Corporation Service Center or a qualified service technician. (Some jurisdictions require service technicians to be licensed.)
- Inspect previous installation. These instructions assume that prior installation was performed and designed correctly. See Installation Instructions (provided with Dometic unit) for proper location, roof preparation, system design, and wiring requirements.

1. **CAUTION! LIFTING HAZARD.** Use proper lifting technique and control when lifting product. Failure to obey this caution could result in injury.

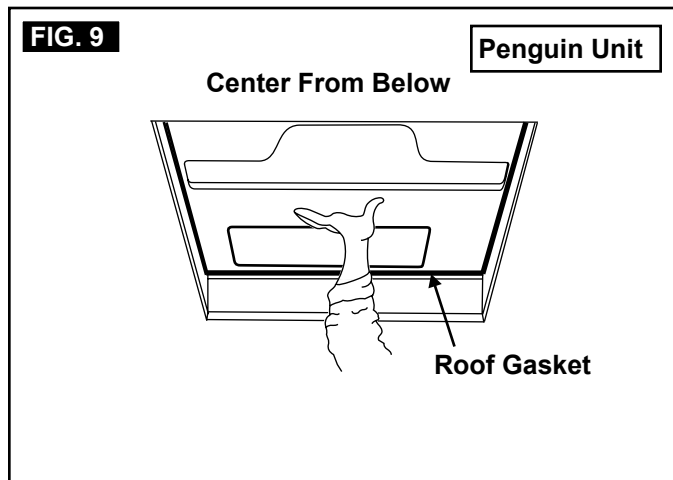
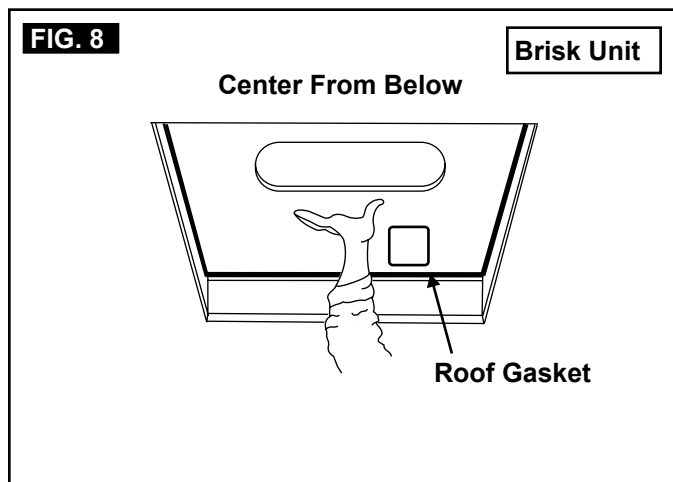
NOTICE. Do **NOT** slide unit. Otherwise, damage to gasket (on bottom of unit) may occur, and could cause a leak.

With a mechanical lift, place Dometic unit on RV roof, then lift and place over opening using unit's gasket as a guide. See (FIG. 6) and (FIG. 7).



2. Check gasket alignment of unit over 14" X 14" roof opening, and adjust to center if necessary. See (FIG. 8) and (FIG. 9).

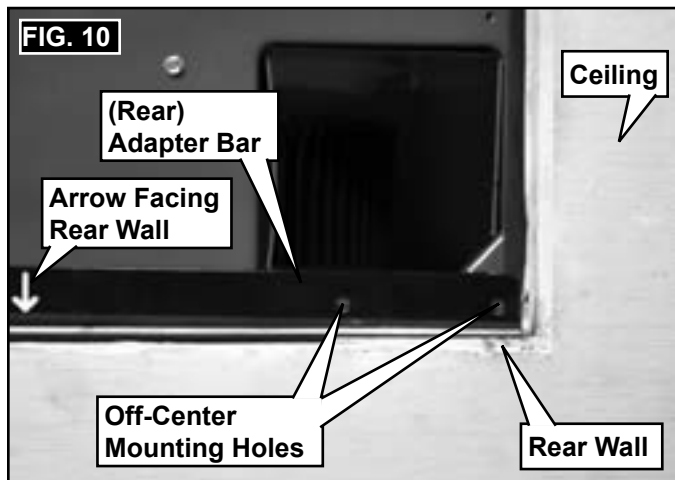
i Unit may be moved from below by slightly lifting.



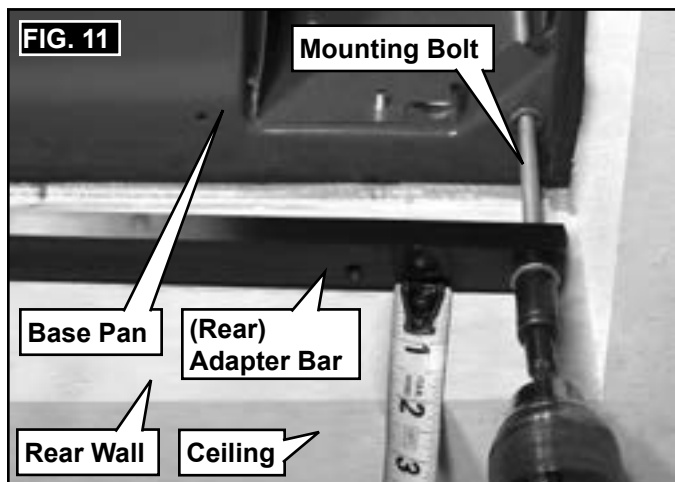
PROCEDURE

3. Place (rear) adapter bar inside roof opening, facing arrow toward rear wall of opening. See (FIG. 10).

i Penguin units require a different adapter bar for front and rear. Brisk units have a 'universal' bar that fits both front and rear.



4. Screw both 1/4"-20 X 7" L mounting bolts through (rear) adapter bar and into unit's base pan until there's a 2" gap between bottom of adapter bar and ceiling surface. See (FIG. 11).

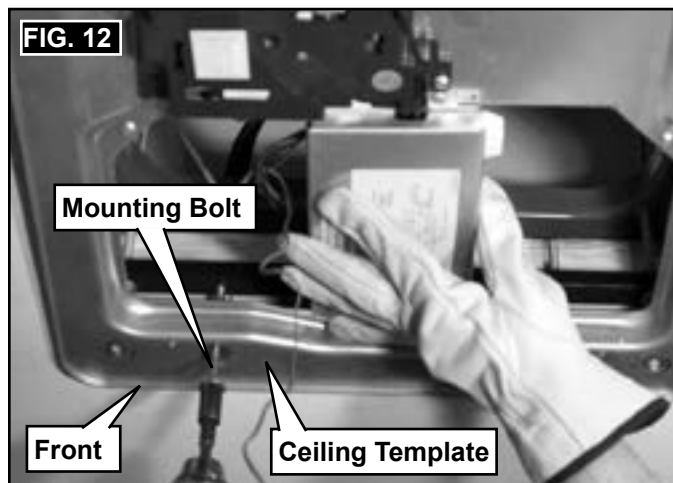


5. Repeat steps (3) through (4) for (front) adapter bar.

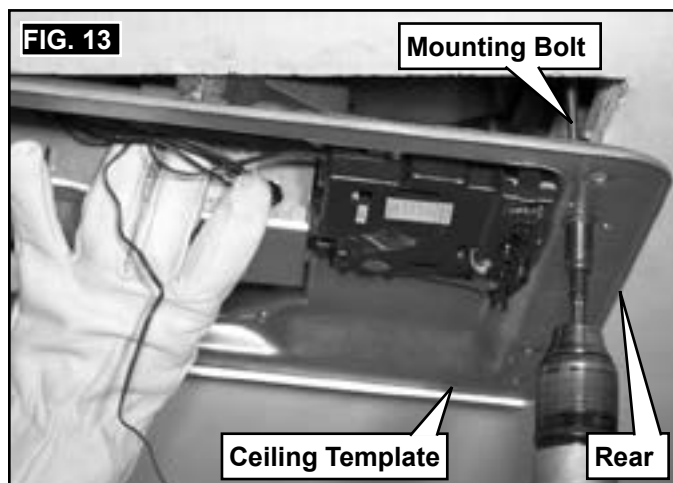
6. Reinstall ceiling template.

- a. Align ceiling template with roof opening, and screw (front) 1/4"-20 X 4" L mounting bolts through ceiling template and into (front) adapter bar until bolt threads reach depth of adapter bar. See (FIG. 12).

i Do not tighten all the way. Allow a gap between rear of ceiling template and ceiling. See (FIG. 13).



- b. Screw (rear) 1/4"-20 X 4" L mounting bolts through ceiling template and into (rear) adapter bar until ceiling template is hand-snug against ceiling (at rear). See (FIG. 13).



- c. Screw (front) 1/4"-20 X 4" L mounting bolts until ceiling template is hand-snug against ceiling. See (FIG. 12).

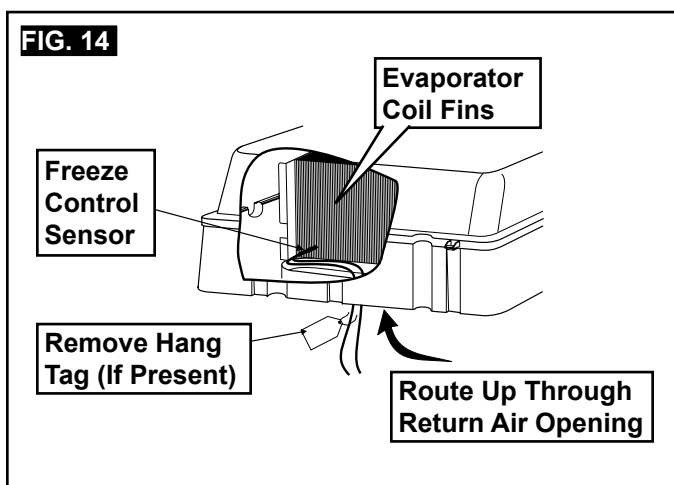
PROCEDURE

- d. **NOTICE.** Tighten mounting bolts to correct torque specifications. Overtightening could damage unit's base pan or ceiling template. Not enough torque will allow an inadequate roof seal, and could cause a leak.

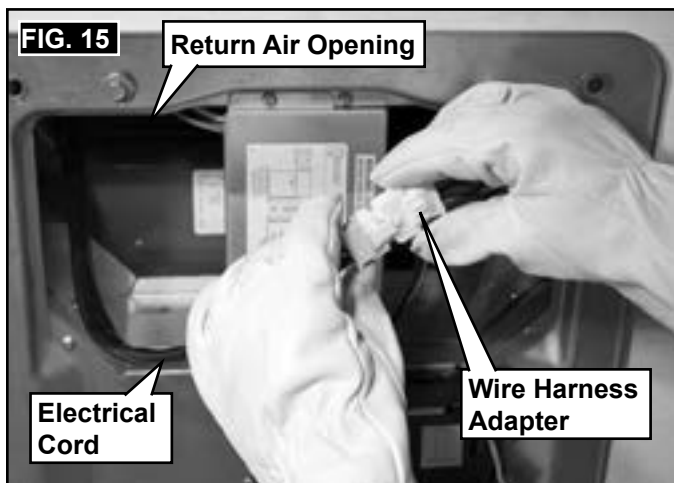
Tighten all (4) mounting bolts **EVENLY** within 40 to 50 in·lb of torque. See (FIG. 12) and (FIG. 13).

i This will compress the roof gasket to approximately 1/2" (50%).

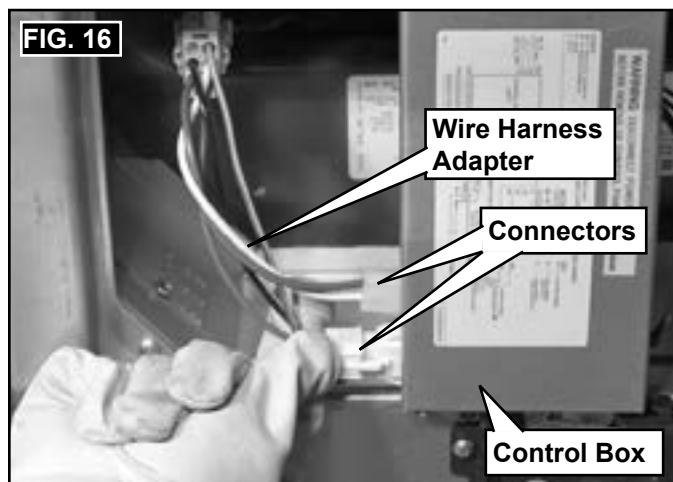
7. Insert freeze control sensor into evaporator coil fins approximately 1" above bottom of coil fins and on left side of unit. Bend fins over sensor to secure in place. See (FIG. 4) and (FIG. 14).



8. **WARNING!** ELECTRICAL SHOCK HAZARD. Make sure 120 Vac power is still disconnected from RV. Failure to obey this warning could result in death or serious injury.
9. Reach up into the return air opening and pull unit's electrical cord down through return air opening. Then install wire harness adapter onto electrical cord. See (FIG. 15).



10. **NOTICE.** Make sure the positive (+) 12 Vdc terminal is still disconnected from supply battery. Otherwise, damage to unit could occur.
11. Insert wire harness adapter's connectors into correct control box ports. See (FIG. 16).



12. Reinstall return air cover (with screws) onto unit's ceiling template. See (FIG. 2).
13. Slide filters back into return air grill. See (FIG. 1).

C. Unit Checkout

- i** 1. Reconnect the positive (+) 12 Vdc terminal to supply battery, and 120 Vac power to RV.
2. Test operation of unit to verify all features are functioning properly.

i Refer to the thermostat and unit operating instructions before testing system functions.