#### **IMPORTANT SAFETY INFORMATION**

INSTALLER: Please read all instructions thoroughly before servicing this equipment. Pay attention to all safety warnings and any other special notes highlighted in the manual. Safety markings are used frequently throughout this manual to designate a degree or level of seriousness and should not be ignored. **WARNING** - Indicates a potentially hazardous situation that if not avoided, could result in personal injury or death. **CAUTION** - Indicates a potentially hazardous situation that if not avoided, may result in minor or moderate injury or property damage.

# **△ WARNING:**

Unless noted otherwise in these instructions, only factory authorized parts or accessory kits may be used with this product. Improper installation, service, adjustment, or maintenance may cause explosion, fire, electrical shock or other hazardous conditions which may result in personal injury or property damage

# **WARNING:**

The information listed below must be followed during the installation, service, and operation of this unit. Unqualified individuals should not attempt to interpret these instructions or install this equipment. Failure to follow safety recommendations could result in possible damage to the equipment, serious personal injury or death.

 Use caution when removing components or handling this product. Personal injury can occur from sharp metal edges present in all sheet metal constructed equipment.

## ABOUT THE VENT TRANSITION KIT

This kit is to be used for field replacement of a non-condensing furnace in manufactured housing. It may be used at elevations up to 8,000 feet above sea level. M7 / MG2S series furnaces are condensing gas furnaces and must be vented with PVC or equivalent pipe to prevent vent corrosion. Using the existing roof jack and vent caps in this kit, you may easily install the vent and combustion air intake pipes for the new furnace. Before you begin the installation process, make sure your kit contains all the items listed in Table 1.

#### **INSTALLING THE KIT**

- 1. Verify structural integrity of the roof flashing and upper and lower combustion air pipes. **NOTE:** Do not use this kit with existing roof jacks that are unsafe or unstable.
- 2. Replace the existing furnace with the new condensing furnace. Refer to the the installation instructions supplied with the furnace for additional information.

#### **Removing Unnecessary Parts from the Old Roof Jack**

**NOTE:** Disassembly instructions may vary depending upon the age and design of the roof jack. See Figure 1.

 Disassemble the top roof jack by removing the screws connecting it to the upper combustion air intake pipe.

#### **KIT CONTENTS**

Replacement Vent Caps	Qty: 2
2" Rubber Couplings	Qty: 2
2" Diameter Clamps	
90° Street Elbows	Qty: 2
#10 Sheet Metal Screws	Qty: 6
Instruction sheet	Qty: 1

#### Table 1. Kit Contents

- 2. Remove brackets from the combustion air intake upper pipe. **NOTE:** The brackets are fastened with 1/8" pop rivets and can be removed by drilling the rivets with a 1/8" drill bit.
- 3. Remove the inner and outer flue pipes (6" diameter) from the roof jack.

# Installing the Vent & Combustion Air Intake Pipe (After the furnace is set in place)

Vent and combustion air pipe and fittings must be one of the following materials in the list and must conform to the indicated ANSI/ASTM standards.

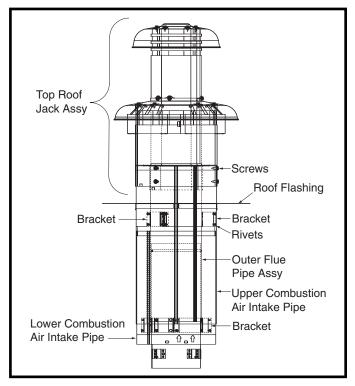
MATERIALS	STANDARDS
Schedule 40PVC	D1785
PVC-DWV	D2665
SDR-21 & SDR-26	D2241
ABS-DWV	D2661
Schedule 40 ABS	F628
Foam / Cellular Core PVC	F891
*PolyPro® by DuraVent	ULC-S636
CPVC	D1784

\*When using PolyPro<sup>®</sup>, all venting and fittings must be from the same manufacturer with no interchanging of other materials. Refer to specific instructions supplied with the PolyPro vent kits

When joining PVC to PVC, use cement that conforms to ASTM standard D2564. PVC primer must meet standard ASTM F656. When joining ABS to ABS, use cement that conforms to ASTM standard D2235. When joining PVC to ABS, use cement as specified in procedure from ASTM standard D3138

In Canada, all plastic vent pipes and fittings including any cement, cleaners, or primers must be certified as a system to ULC S636. However this requirement does not apply to the finish flanges or piping internal to the furnace.

- 1. Refer to Table 2 and choose proper vent pipe material.
- 2. Install 2" rubber couplings on the furnace pipes and assemble 90° SPIG x HUB elbow (large radius). See Figure 2.
- 3. Place bottom and top replacement caps on the roof jack. DO NOT screw the caps down at this time.
- 4. Cut 2" plastic pipes to length and route the vent and combustion air intake pipes through the replacement caps. **NOTE**: The maximum height from the top of the furnace to the top of the flue pipe must be no longer than 15 feet. See Figure 2.
- 5. Permanently bond all PVC components together using appropriate primer and cement.
- 6. Screw the top & the bottom replacement caps to the outer pipes. **NOTE:** Two or more screws must be used on each cap.
- 7. Tighten the upper hose clamps on the 2" rubber couplings.
- 8. Secure the combustion air intake pipe to the lower combustion air intake pipe at the bottom of the upper pipe using at least two screws.
- 9. Seal around the two pipes on the top and bottom replacement caps with silicone sealant.





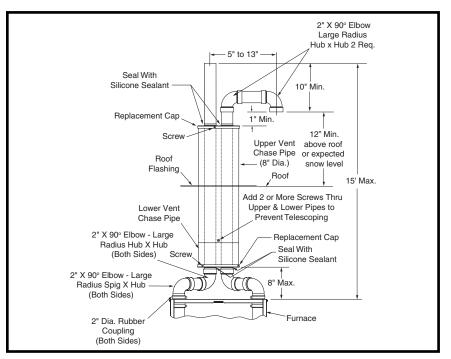


Figure 2. Vent & Combustion Air Intake Pipe Installation



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## Gas & Oil Furnaces for Manufactured Housing

## **IMPORTANT SAFETY INFORMATION**

INSTALLER: Please read all instructions before servicing this equipment. Pay attention to all safety warnings and any other special notes highlighted in the manual. Safety markings are used frequently throughout this manual to designate a degree or level of seriousness and should not be ignored.

**WARNING** - indicates a potentially hazardous situation that if not avoided, could result in personal injury or death.

**CAUTION** - indicates a potentially hazardous situation that if not avoided, may result in minor or moderate injury or property damage.

# **WARNING:**

The safety information listed in this manual must be followed during the installation, service, and operation of this unit. Unqualified individuals should not attempt to interpret these instructions or install this equipment. Failure to follow safety recommendations could result in possible damage to the equipment, serious personal injury or death.

# A WARNING:

Improper installation, service, adjustment, or maintenance may cause explosion, fire, electrical shock or other hazardous conditions which may result in personal injury or property damage. Unless otherwise noted in these instructions, only factory authorized kits or accessories may be used with this product.

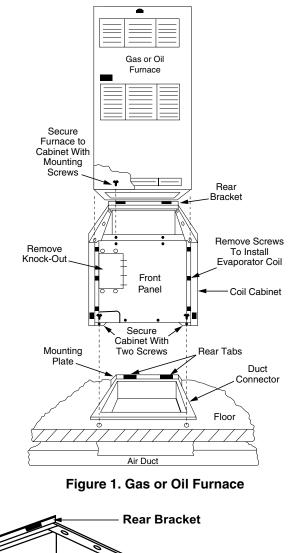
- To minimize equipment failure or personal injury, it is essential that only qualified individuals install, service, or maintain this equipment. If you do not posses mechanical skills or tools, call your local dealer for assistance.
- Follow all precautions in the literature, on tags, and on labels provided with the equipment. Read and thoroughly understand the instructions provided with the equipment prior to performing the installation and operational checkout of the equipment.
- Use caution when handling this appliance or removing components. Personal injury can occur from sharp metal edges present in all sheet metal constructed equipment.

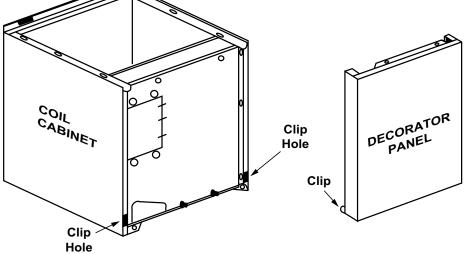
## **ABOUT THE COIL CABINET**

The Coil Cabinet (Model No. 922594) can be used with manufactured housing gas & oil furnaces that do not have a factory installed coil box. Specifically, this coil cabinet allows a 24" tall indoor coil to be used with a manufactured housing gas or oil furnace. This coil cabinet is for use with C\*\*A Series air conditioner/heat pump indoor coils.

## INSTALLATION

- 1. Shut off the electrical power and the fuel supply.
- 2. Disconnect flue pipes from the furnace and telescope upwards. **NOTE:** Units with roof jack assemblies only.
- 3. Remove the furnace door.
- 4. Remove the furnace mounting screws from the front corners of the furnace and slide the furnace off of the duct connector. See Figure 1.
- 5. Place the coil cabinet on the duct connector.
- 6. Slide the coil cabinet back onto the mounting plate until the rear tabs (Figure 1) engage with the coil cabinet.
- 7. Secure the coil cabinet to the floor with one screw at each front corner of the cabinet.
- 8. Slide the furnace onto the coil cabinet until the rear bracket tabs engage with the rear of the furnace.
- 9. Secure the front of the furnace with the two mounting screws through the holes provided.
- 10.If installing an evaporator coil into the coil cabinet, follow the installation instructions provided with the evaporator coil.
- 11.Remove the front panel from the coil cabinet by removing the sheet metal screws.
- 12. Remove the knock-out panel on the front panel of the coil cabinet for the refrigerant lines and drain hose.
- 13. After installation of the refrigerant lines and drain hose, re-install the front panel.
- 14. Complete the electrical wiring and the fuel line/venting system (for gas and oil furnaces) in accordance with the furnace installation instructions and applicable codes.
- 15.Install the decorator panel by fitting the clips on the sides of the decorator panel into the clip holes on the coil cabinet. See Figure 2. Secure the top of the decorator panel to the base of the furnace with two screws.









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These instructions are primarily intended to assist qualified individuals experienced in the proper installation of heating and/or air conditioning appliances. Some local codes require licensed installation/service personnel for this type of equipment. Read all instructions carefully before starting the installation.

Used to add additional height to rain caps. (As required by Canadian (CSA) installations.) For Canada the following installation codes apply: CSA B139-1976 Installation code for oil burning equipment. CAN/CGA B149.1-M86 Natural Gas code. CAN/CGA B149.2-M86 Propane Gas code.

DESCRIPTION	MODEL NO.	SPEC. NO.
Exterior Extension 16" Length, 4" Flue Pipe Dia.	EE16A-4	901936-
Exterior Extension 16" Length, 5" Flue Pipe Dia.	EE16A-5	901937-
Exterior Extension (430 SS) 16" Length, 5" Flue Pipe Dia.	EE16A-5SS	902510-

The above extensions may be used to extend the following Telescopng Roof Jack Assemblies.

MODEL NUMBER				
FH1323-4, -5	FO2343-4, -5	SHT2745-4, -5		
FH2343-4, -5	SO1835-4, -5	SHT4581-4, -5		
SH1835-4, -5	SO2447-4	(F,S)AW(T)-1523 (0,2,4) (A,S)		
SH2447-4	SO3263-4, -5	(F,S)AW(T)-2135 (0,2,4) (A,S)		
SH3263-4, -5	SO4895-4, -5	(F,S)AW(T)-2747 (0,2,4) (A,S)		
SH4895-4, -5	SOT2745-4, -5	(F,S)AW(T)-3563 (0,2,4) (A,S)		
FO1323-4, -5	SOT4581-4, -5	(F,S)AW(T)-5195 (0,2,4) (A,S)		

# A WARNING

Be sure appliance is turned off before installing extension kits.

## UPPER PIPE EXTENSION KIT

(Consists of 2 pipes 16" long and 6 #10 sheet metal screws)

1. Remove 3 #10 sheet metal screws from base of roof jack assembly and lift assembly off of the pipes. See Figure 1.

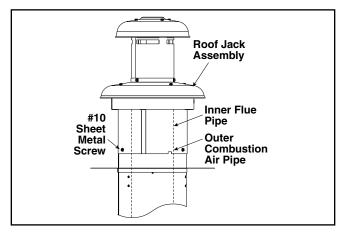
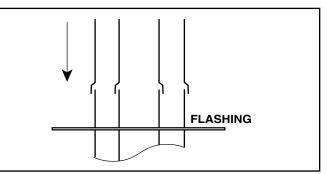


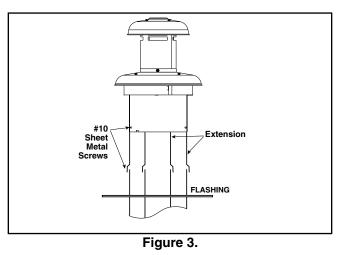
Figure 1.

2. Attach smaller diameter flue pipe to existing flue pipe as shown in Figure 2 by inserting the larger diameter end with stop bead into existing flue and push down to stop. Attach larger diameter outer combustion air pipe onto outer pipe and push downward until pipe seats on stop bead. Secure the outer combustion air pipe in place using the 3 #10 sheet metal screws supplied.



#### Figure 2.

3. Re-attach previously removed roof jack assembly to newly installed extension pipes. Be sure both pipes slide and seat onto the mating pipes in the roof jack assembly. Secure the roof jack assembly in place onto the outer combustion air pipe as originally installed using 3 #10 sheet metal screws. See Figure 3.





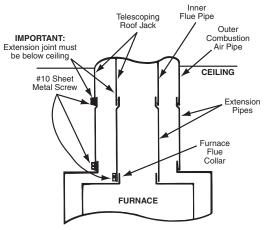
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## **IMPORTANT SAFETY INFORMATION**

These instructions are primarily intended to assist qualified individuals experienced in the proper servicing of heating and air conditioning appliances. Some local codes require licensed installation/service personnel for this type equipment. Use of this kit must be in accordance with these instructions and with all applicable national and local codes and standards.

**INSTALLER:** Please read all instructions thoroughly before servicing this equipment. Pay attention to all safety warnings and any other special notes highlighted in the manual. Safety markings are used frequently throughout this manual to designate a degree or level of seriousness and should not be ignored. **WARNING** - Indicates a potentially hazardous situation that if not avoided, could result in personal injury or death. **CAUTION** - Indicates a potentially hazardous situation that if not avoided, may result in minor or moderate injury or property damage.

- The information shown in these instructions must be followed during the installation of this kit. Unqualified individuals should not attempt to interpret these instructions or install this equipment. If you do not possess mechanical skills or tools, call your local dealer for assistance.
- Use caution when removing components or handling this product. Personal injury can occur from sharp metal edges present in all sheet metal constructed equipment.



# DESCRIPTIONSPEC. NO.MODEL NO.Interior Extension10" Length, 4" Flue Dia.901934EI 10A-410" Length, 5" Flue Dia.901935EI 10A-518" Length, 5" Flue Dia.903107EI 18A-5

**NOTE:** Kit Consists of 2 pipes (10" or 18") long and 2 #10 sheet metal screws.

#### Table 1. Kit Model & Part Information

#### Lower Pipe Extension Installation

**NOTE:** Only 2 extension kits are allowed per furnace installation.

- 1. IMPORTANT! Make sure power is turned off to the unit.
- 2. Remove sheet metal screw securing outer combustion air pipe and flue pipe to furnace.
- 3. Lift pipes up and off furnace.
- 4. Insert inner flue pipe extension over furnace flue collar and attach with one of the supplied sheet metal screws.

**NOTE:** Small end of extension pipe (end with bead) must be installed pointing upwards for attachment to the inner flue pipe. See Figure 1.

5. Attach outer combustion air pipe extension to top of furnace using 1 #10 sheet metal screw (factory supplied).

**NOTE:** Small end of extension pipe (end with bead) must be installed pointing upwards for attachment to the roof jack outer combustion air pipe. See Figure 1.

- 6. Slide inner flue pipe assembly down onto both extension pipes until stopped against bead.
- 7. Secure outer combustion air pipe using #10 sheet metal screw, to extension pipe. See Figure 1.

**NOTE:** Extension joint of the interior roof jack extension must be below ceiling. See Figure 1.

Figure 1. Extension Kit Installed

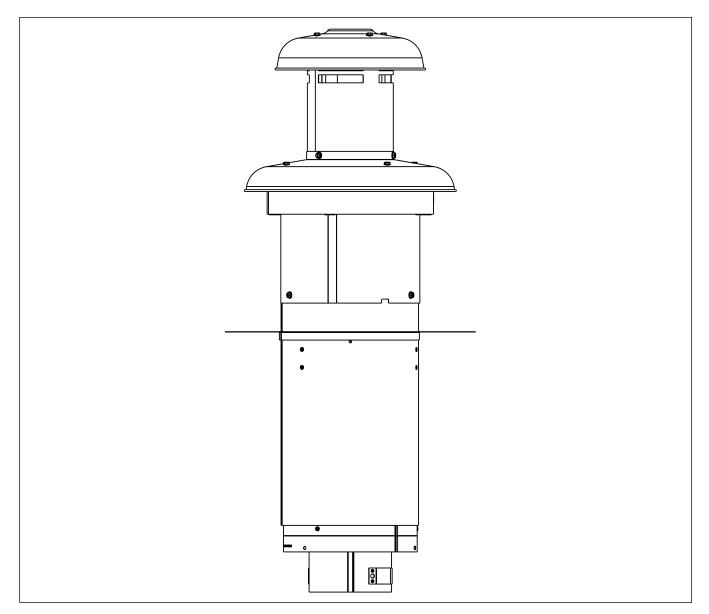
**NOTE:** Installation is to be made in accordance with H.U.D. Manufactured Home Construction And Safety Standard (Title 24, Part 3280). For Canada the following installation codes apply: CAN/CSA B139-1976; Installation code for oil burning equipment. CAN/CSA B149.1-M86 Natural Gas code. CAN/CSA B149.2-M86 Propane Gas code.



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# **Installation Instructions**

Model Series MG, MB, MS, MM, and M1 Furnaces

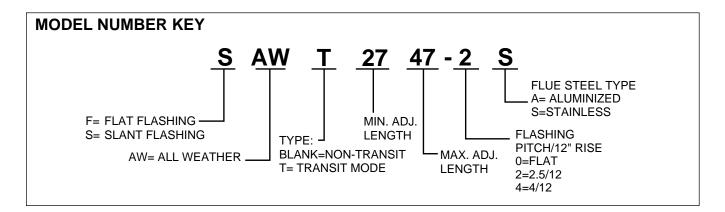


These instructions are primarily intended to assist qualified individuals experienced in the proper installation of heating and/or air conditioning appliances. Some local codes require licensed installation/service personnel for this type of equipment. Read all instructions carefully before starting the installation.

NOTE: Installation must be made in accordance with H.U.D Manufactured Home Construction And Safety Standard (TITLE 24. PART 3280); <u>For Canada</u>, the following installations apply: CSA B139; Installation Code for Oil burning equipment (CSA B139 requires the usage of stainless steel flue assemblies for Oil burning equipment). CAN/CGA B149.1-M86 Natural Gas Code. CAN/CGA B149.2-M86 Propane Gas Code.

## SELECTING THE ROOF JACK

- Determine the depth of the ceiling cavity from the center of the roof opening to the top of the furnace (see dimension "A" in Figure 1).
- 2. Add dimensions "A" and "X" from Table 1 and Fig. 2 if slant deck flashing is used.
- 3. Select the appropriate Roof Jack from Table 2.

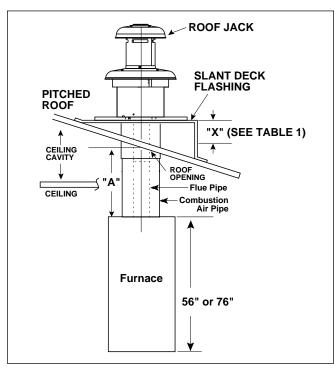


# A CAUTION:

Any attempt to operate furnace before replacing the transit-mode weather cap with the upper roof jack section may result in hazard of fire, explosion or asphyxiation.

## INSTALLING THE ROOF JACK

- 1. RECOMMENDED ROOF CUT-OUT FOR ROOF JACK. The recommended roof cut-out is depicted in Figure 5.
- 2. APPLY CAULKING TO ROOF FLASHING. Apply caulking compound on the underside of the roof flashing to form a continuous strip about 1 1/2" wide around the underside of the perimeter of the flashing.





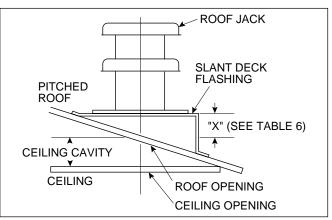


Figure 2.

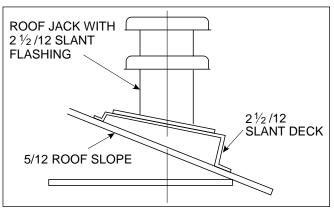


Figure 3.

IF PITCH IS:	FLASHING NO.	"X" FACTOR IS:
2.5" x 12"	903893	2.5"
3" x 12"	903894	3.0"
4" x 12"	903895	4.0"

**Table 1. Optional Slant Deck Flashings** 



Flue Length		Transit Mode Roof Flashing Pitch			Fixed Mode Roof Flashing Pitch		
	15" - 23"				Х		
	21" - 35"		X		Х	Х	
Galvanized	27" - 47"	X	X	Х	Х	X	Х
	35" - 63"		X	Х		Х	Х
	51" - 95"		Х	Х			Х
	15" - 23"		1		Х		
	21" - 35"		1		Х	Х	
430 S.S.	27" - 47"	X	Х				
	35" - 63"		İ			Х	1
	51" - 95"		Х	Х		İ	Х

Table 2. Telescoping Roof Jack Assemblies

- 3. CONNECT ROOF JACK ASSEMBLY TO FURNACE. Insert the telescoping Roof Jack assembly through the opening cut in the roof. Engage the flue pipe and the flue collar of the furnace. Connect the combustion air pipe to the furnace collar with a sheet metal screw. The connection of the combustion air pipe to the furnace should be made before the flashing is secured to the roof to maintain alignment to the roof jack and the furnace connections, see Figure 4.
- 4. ATTACH ROOF FLASHING. If necessary, shift the roof flashing slightly in the roof opening so that the assembly is in good alignment with the furnace. Press down firmly over the caulking on the roof flashing to make the seal watertight with the roof. Secure the flashing with appropriate fasteners.

As an added protection against leaks, coat the flashing plate and fasteners with roof compound.

Each slant flashing will flex through the range shown:

Flashing	Range
2.5/12	1/12 - 4/12
4/12	3/12 - 5/12

# A CAUTION:

Do not extend Roof Jack beyond recommended extension length in Table 2 unless a listed extension is used.

#### INSTALLATION OF TRANSIT-MODE VENTING SYSTEM Requirements:

These instructions pertain to the installation of the transitmode venting system only and are intended for use by qualified individuals experienced in the proper installation of home heating appliances. Installation of venting systems other than those described in these instructions shall be in accordance with the installation manual supplied with furnace.

A 10" interior extension kit is available to extend the roof jack connection pipes. Extension joints must be visible below ceiling.

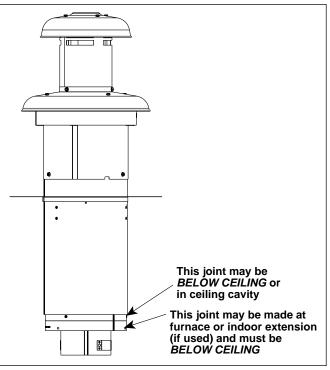
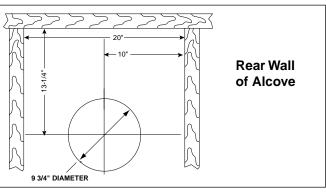


Figure 4.





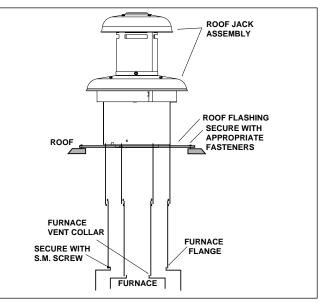


Figure 6.

#### **Manufactured Home Factory**

- 1. Furnace must be installed per furnace installation instructions.
- 2. Roof Jack to be selected from Page 2 of these instructions.
- 3. Roof Jack (less upper Roof Jack crown), with weather cap to be installed as described on Figure 7 of these instructions.
- 4. Upper Roof Jack crown to be stored in a prominent location inside the manufactured home until on-site installation.
- 5. The four warning tags supplied must be installed as follows:
  - To weathercap
  - To fuel line connection point (Gas) or furnace burner (Oil)
  - To furnace fire door (Gas) or furnace door (Oil)
  - To furnace wall thermostat

#### **Manufactured Home Site**

- Transit-mode weather cap must be removed and the upper Roof Jack crown installed per Figures 7 and 8. Set aside the three screws removed with the cap for use when securing the Roof Jack crown.
- 2. Venting system warning tags must be removed and discarded.
- 3. Place the upper Roof Jack crown onto the flue pipe assembly. (See Figure 8.) The flue collar of the transit cap must fit over the flue pipe of the flue assembly. Outer combustion air pipe of the Roof Jack crown must fit over the outer sleeve of the flue assembly. Slide assemblies together. Observe that the roof crown inner pipes are fully engaged or the outer pipe bottoms out against the rear of the roof flashing on slant roof applications. Secure in place using the 3, #10 x 1/2" sheet metal screws removed in step #1. Do not use the same holes which secured the rain cap in place.

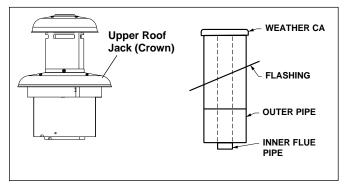


Figure 7.

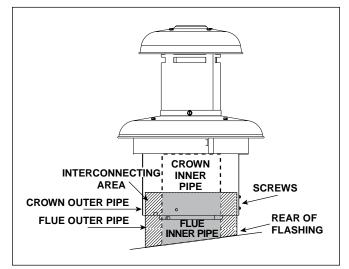


Figure 8.

# **INSTALLER:**

PLEASE LEAVE THESE INSTALLATION INSTRUCTIONS WITH THE HOMEOWNER.



