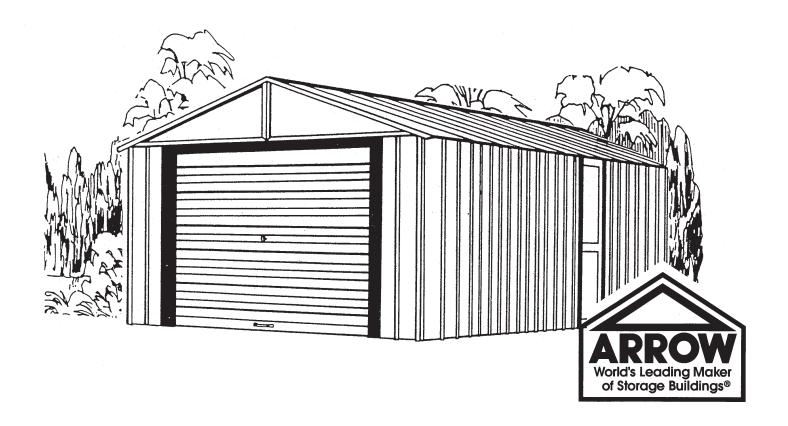
Owner's Manual & Assembly Instructions

BX0

 Model No.
 VT1421-A □
 697.68612-A □

 VT1431-A □
 697.68613-A □



713771207

BUILDING DIMENSIONS * Size rounded off to the nearest foot



CAUTION: SOME PARTS HAVE SHARP EDGES. CARE MUST BE TAKEN WHEN HANDLING THE VARIOUS PIECES TO AVOID A MISHAP. FOR SAFETY SAKE, PLEASE READ SAFETY INFORMATION PROVIDED IN THIS MANUAL BEFORE BEGINNING CONSTRUCTION. WEAR GLOVES WHEN HANDLING METAL PARTS.

*Approx.	Foundation	Storage Area		Exterior Dimensions (Roof Edge to Roof Edge)			Interior Dimensions (Wall to Wall)		
Size	Size	Sq. Ft.	Cu. Ft.	Width	Depth	Height	Width	Depth	Height
14' x 21'	164" x 255 1/2"	291	2527	169"	260 3/4"	116"	164"	255 1/2"	114 1/2"
14' x 31'	164" x 370 1/2"	422	3663	169"	375 3/4"	116"	164"	370 1/2"	114 1/2"
4,3m x 6,4m	4,17m x 6,49m	27,0m ²	71,6m³	4,29m	6,62m	2,95m	4,17m	6,49m	2,91m
4,3m x 9,5m	4,17m x 9,41m	39,2m ²	103,7m³	4,29m	9,54m	2,95m	4,17m	9,41m	2,91m

BEFORE YOU BEGIN....

BW2

Owner's Manual

Before beginning construction, check local building codes regarding footings, location and other requirements. Study and understand this owner's manual. Important information and helpful tips will make your construction easier and more enjoyable.

Assembly Instructions: Instructions are supplied in this manual and contain all appropriate information for your building model. Review all instructions before you begin, and during assembly, follow the step sequence carefully for correct results.

Foundation and Anchoring: Your storage building must be anchored to prevent wind damage. A foundation is also necessary as a base in order to construct a square and level building. Anchoring and foundation materials are not included with your building. We recommend the use of an **Arrow Anchoring Kit** as an effective method of securing your building to the foundation (Available by mail order or at your local dealer) or you may construct the foundation and anchoring system of your choice. Your assembly instructions provide information on a few methods commonly used to secure and level a storage building.

Parts and Parts List: Check to be sure that you have all the necessary parts for your building.

- •All part numbers can be found on the parts. All of these numbers (before the -) must agree with the numbers on the parts list.
- •If you find that a part is missing, include the model number of your building and contact:

Arrow Group Industries, Inc. Customer Service Department Route 50 East Breese, Illinois 62230 1-800-851-1085

- •Separate contents of the carton by the part number while reviewing parts list. The first few steps show how to join related parts to make larger sub assemblies which will be used later.
- •Familiarize yourself with the hardware and fasteners for easier use during construction. These are packaged within the carton. Note that extra fasteners have been supplied for your convenience.

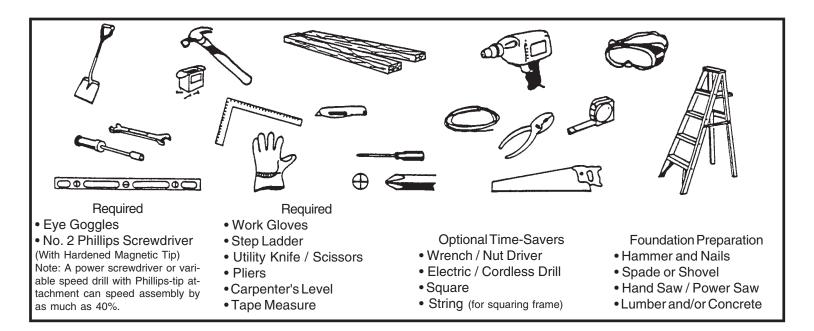
PLAN AHEAD....

A3

Watch the Weather: Be sure the day you select to install your building is dry and calm. Do not attempt to assemble your building on a windy day. Be careful on wet or muddy ground.

Teamwork: Whenever possible, two or more people should work together to assemble your building. One person can position parts or panels while the other is able to handle the fasteners and the tools.

Tools and Materials: These are some basic tools and materials you will need for the construction of your building. Decide which method of anchoring and the type of foundation you wish to use in order to form a complete list of the materials you will need.



Selecting and Preparing Your Site: Before assembly, you will want to decide on a location for your building. The best location is a level area with good drainage.

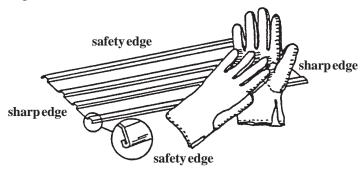
- •Allow enough working space for ease of moving parts into position during assembly. Be sure there will be enough space at entrance for doors to open fully and enough space around the building to be able to fasten the panel screws from the outside.
- •Before you begin the first steps in assembling your parts, a foundation should be constructed and an anchoring system should be ready to use.

SAFETY FIRST....

Δ

Safety precautions are important to follow throughout the construction of your building.

•Care must be taken when handling various pieces of your building since some contain sharp edges. Please wear work gloves, eye protection and long sleeves when assembling or performing any maintenance on your building.



•Keep children and pets away from worksite to avoid distractions and any accidents which may occur.



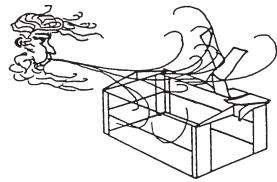
•Never concentrate your total weight on the roof of the building. When using a step ladder make sure that it is fully open and on even ground before climbing on it.



•Practice caution with the tools being used in the assembly of this building. Be familiar with the operation of all power tools.



•Do not attempt to assemble the building if parts are missing because any building left partially assembled may be seriously damaged by light winds. Call 1-800-851-1085



•Do not attempt to assemble the building on a windy day, because the large panels acting as a "sail", can be whipped about by the wind making construction difficult and unsafe.



CARE & MAINTENANCE....

BW/05

Finish: For long lasting finish, periodically clean and wax the exterior surface. Touch-up scratches as soon as you notice them on your unit. Immediately clean the area with a wire brush; wash it and apply touch-up paint per manufacturer's recommendation.

Roof: Keep roof clear of leaves and snow with long handled, soft-bristled broom. Heavy amounts of snow on roof can damage building making it unsafe to enter.

Doors: Always keep the door tracks clear of dirt and other debris that prevent them from sliding easily. Lubricate door track annually with furniture polish or silicone spray. Keep doors closed and locked to prevent wind damage.

Fasteners: Use all washers supplied to protect against weather infiltration and to protect the metal from being scratched by screws. Regularly check your building for loose screws, bolts, nuts, etc. and retighten them as necessary.

Moisture: A plastic sheet (vapor barrier) placed under the entire floor area with good ventilation will reduce condensation.

Other Tips....

- Wash off inked part numbers on coated panels with soap and water.
- Silicone caulking may be used for watertight seals throughout the building.

Do not store swimming pool chemicals in your building. Combustibles and corrosives must be stored in air tight approved containers.

Keep this Owner's Manual and Assembly Instructions for future reference.

ACCESSORIES....

BW06 Web

ANCHOR KITS

Model No. AK4

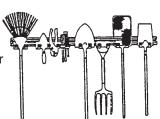
Anchor Kit contains heavy-duty steel augers, 60' (18m) of steel cable and 4 cable clamps. No digging or concrete pouring, just insert cable under roof, over roof beams, into augers and twist augers into the ground. For buildings larger than 10'x9', use 2 kits.



TOOL HANGING RACK

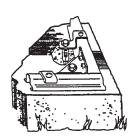
Model No. TH100

The perfect tool organizer. Twin 25 1/2" (65cm) steel channels plus five heavy-duty snap-in hangers and a small tool holder for screwdrivers, pliers, etc. Holders slide along channel for fully adjustable spacing. Great for garage, basement, or the back of any door. Fits all Arrow storage buildings.



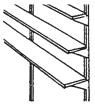
Model No. AK100

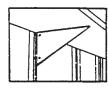
New concrete anchor system permits anchoring any size Arrow building directly to a concrete slab. Each kit contains heavy-duty, hot-dipped galvanized steel corner gussets and perimeter clips which fit over the floor frame and lag bolt into a concrete slab. Full assembly instructions and a 1/4" masonary drill bit are included.



SHELF UNITS

Heavy-duty, galvanized steel shelf units help organize storage space. They easily mount on the wall or sit on the floor. Fits all Arrowbuildings.*







Model No. AK600

Earth Anchor Kit anchors any size Arrow building to the ground. Each kit contains heavy duty, hot-dipped galvanized steel corner gussets and 4 earth anchors.



Model No. SS404

- Makes 8" to 12" (20-30cm) wide shelves in any length.
- Brackets, braces, hardware included.
 Lumber is not included.

Model No. SS900-A

- Grey color
- 3 shelves
- Holds up to 85 lbs. (38kg) (even weight distribution)

^{*} Some drilling required to fit buildings without mid-wall bracing.

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Foundation

BXG

The Foundation For Your Building

Concrete Slab

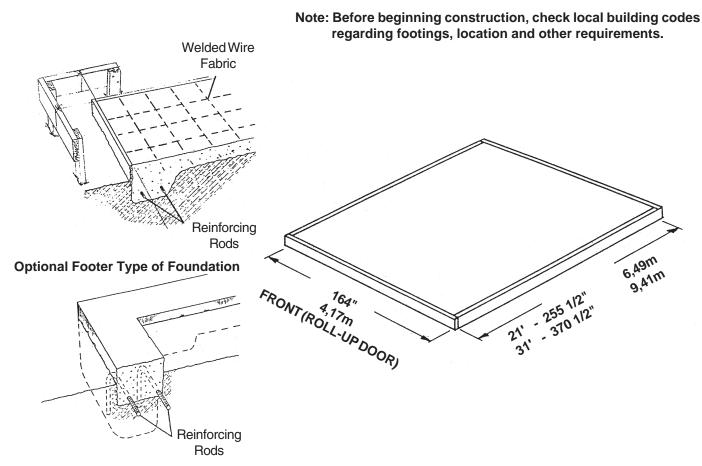
The slab should be at least 4" (10cm) thick. It must be level and flat to provide good support for the frame. The following are the recommended materials for your foundation.

- 2 x 4's (5cm x 10cm) (will be removed once the concrete cures)
- Concrete Sheet of 6 mil plastic
- We recommend for a proper strength concrete to use a mix of:
- 1 part cement 3 parts pea sized gravel 2 1/2 parts clean sand

Prepare the Site/Construct a Foundation

- 1. Dig a square, 6" (15cm) deep into the ground (remove grass).
- 2. Fill up to 4" (10cm) in the square with gravel and tamp firm.
- 3. Cover gravel with a sheet of 6 mil plastic.
- 4. Construct a wood frame using four planks of 2x4 (5cm x 10cm) lumber.
- 5. Pour in concrete to fill in the hole and the frame giving a total of 4" (10cm) thick concrete. Be sure surface is level.

Allow 3 - 5 hours for construction and a week for concrete curing time.



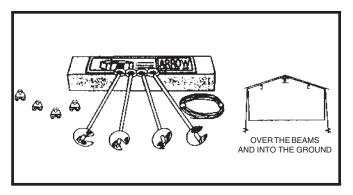
Note: Finished Slab dimensions, with lumber removed.

Anchoring Down The Building

It is important that the entire floor frame be anchored after the building is erected.

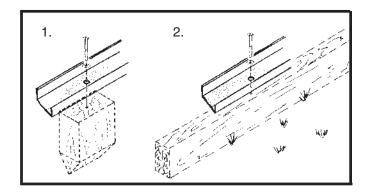
Below are recommended ways of anchoring.

Arrow Anchoring Kit: (Model No. AK4 or 60298) Recommended for use with **any** suggested **base. Contains:** 4 Anchors with Cable, Clamps and installation instruction.

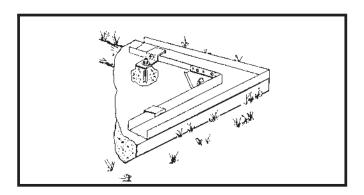


Anchoring into Wood/Post:

Use 1/4" Wood Screws. There are 1/4" (0,63cm) dia. holes provided in the frames for proper anchoring.

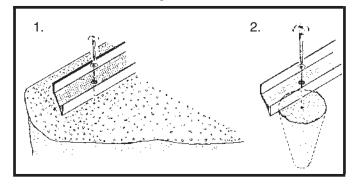


Arrow Anchoring Kit: (Model No. AK100 or 68383) Recommended for use with the **concrete** foundation. **Contains:** Corner gussets, perimeter clips, hardware, 1/4" masonary drill bit and installation instruction.



Anchoring into Concrete:

- 1. For poured concrete slab or footing or patio blocks: Use 1/4" x 2" Lag Screws.
- 2. For Anchor Post of Concrete poured after building is erected: Use 1/4" x 6" Lag Screws.



Hardware for Building

BX11

KIT 1



65101 1/4-20 Square Nut 132 (14x21) 254 (14x31)



65989 1/4-20x1/2" Hex Head Bolt 134 (14x21) 256 (14x31)



65408 #10-32x1/4" Bolts (3)

KIT 2



65106 #10-32 Square Nut 505 (14x21) 677 (14x31)



65958 #8-32x7/8" Bolt (2)

KIT 3

1

65943 #10-32x7/16" Bolt 502 (14x21) 674 (14x31)

Remove from bag and save

for Step 24



65914 #6Ax7/8"Screw(4)





66646 Washer 960 (14x21) 1400 (14x31)

HARDWARE SUB KIT



65004 #8Ax5/16" Screw 813 (14x21) 1092 (14x31)



65103 #8-32 Hex Nut (2)



65900A #10Bx1/2" Black Screw (4)



66098 Plastic Spacer (6)

REMAINING HARDWARE PIECES



66444 Roof Trim Cap (2 right & 2 left)



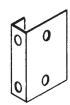
66446 (Arrow Logo) Peak Cap (2)



7022 Eave Bracket 4(14x21) 8(14x31)



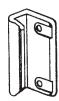
Weather Stripping 67293 (1) 67545 (1 14x21) (2 14x31)



7972 Door Handle Lock Bracket (1)



66769 Door Slide (2)



66260 Handle (2)



66382 Lower Door Guide (2)



66464 (2) 1/4-20x1 1/2" Hex Head Bolt

67488 3/16 x 1 5/16" Heavy "S" Hook (2)

BX12

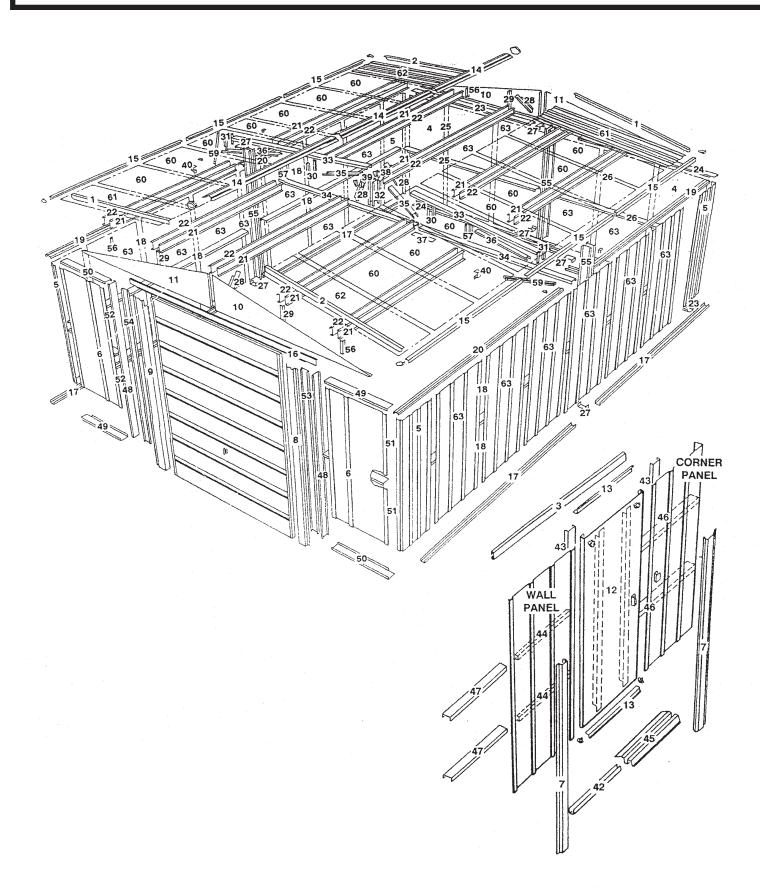
Parts List

Carton #1 through #5 contain parts for a 14' x 21'. Page 14 contains the additional parts for a 14' x 31'.

Assem Key No		Part Number	Part Description	Carton 1	Carton 2	Carton 3	Carton 4	Carton 5
	1 2 3	7023 7024 7562	Left Roof Trim Right Roof Trim Track	2 2 1				
	4 5 6	9471 9472 9473	Wall Panel Corner Panel Front Wall Panel	2 4 2				
	7 8	9477 9488	Door Jamb Right Door Jamb	2 1				
	9 10 11	9489 9494 9495	Left Door Jamb Right Gable Left Gable	1 2 2				
	12 13	10490 10505	Door Horizontal Door Brace	1 2				
	14 15 16	9509 9510 9474	Ridge Cap Side Roof Trim Lintel	3 6	1			
	17 18	9475 9476	Side Floor Frame Side Wall Channel		4 6			
	19 20 21	9484 9485 10456	Right Side Eave Channel Left Side Eave Channel Right Roof Beam		2 2 10			
	22 23	10457 6938	Left Roof Beam Rear Frame		10	2		
	24 25 26	6939 6942 6943	Rear Frame Right Rear Wall Channel Left Rear Wall Channel			2 2 2		
	27 28	6947 6954	Column Gusset Gable/Truss Strut			6 4		
	29 30 31	6955 6958 6959	Inner Gable Bracket Inner Truss Bracket Outer Truss Bracket			4 4 4		
	32 33	6962 6963	Vertical Brace Upper Chord			2 2		
	34 35 36	6964 6965 6966	Lower Chord Inner Diagonal Brace Outer Diagonal Brace			2 2 2		
	37 38	6967 7003	Splice Plate Left Shear Plate			1 2		
	39 40 42	7004 7817 9464	Right Shear Plate Spring Support Bracket Lower Door Track			2 2 1		
	43 44	9465 9466	Support Column Wall Channel			2 2		
	45 46 47	9467 9468 9469	Ramp Corner Door Channel Side Door Channel			1 2 2		
	48 49	9478 9480	Front Column Front Frame			2 2		
	50 51 52	9481 9482 9483	Front Frame Right Front Wall Channel Left Front Wall Channel			2 2 2		
	53 54	10458 10459	Right Track Support Left Track Support			1 1		
	55 56 57	9490 9496 9497	Center Column Outer Gable Bracket Outer Truss Bracket			6 4 4		
	58 59	9500 10455	Vertical Door Brace Track Strut			2 2		
	60 61 62	9491 9492 9493	Roof Panel Right Roof Panel Left Roof Panel				14 2 2	
	63	9470	Wall panel				_	17

Assembly by Key No. for 14x21 Building

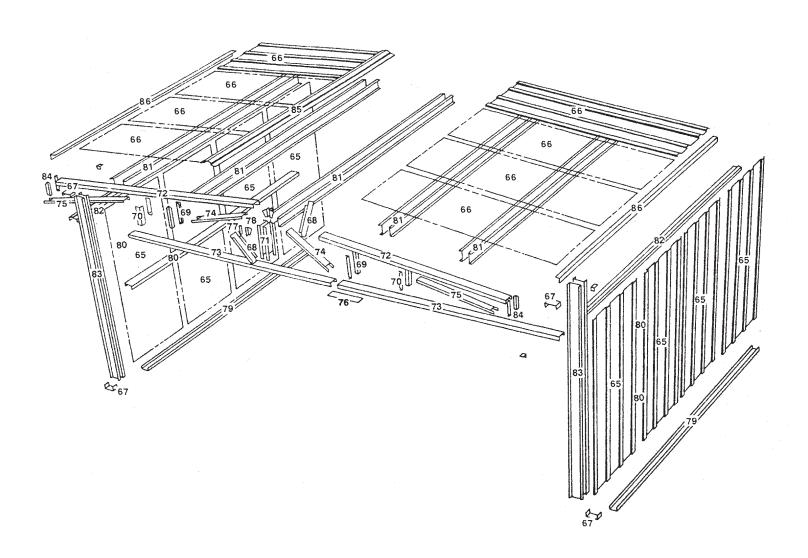
BX13



Additional Parts for & 14' x 31'

BX14

Assembly Key No.	Part Number	Part Description	Carton 6 & 7 Wayne Dalton Door	Carton 8	Carton 9
65 66 67 68 69 70 71 72 73 74 75 76 77 78 80 81 82 83 84 85 86	9470 9491 6947 6954 6958 6959 6962 6963 6964 6965 6966 6967 7003 7004 9460 9461 9462 9463 9490 9497 9512 9513	Wall Panel Roof Panel Column Gusset Gable/Truss Strut Inner Truss Bracket Outer Truss Bracket Vertical Brace Upper Chord Lower Chord Inner Diagonal Brace Outer Diagonal Brace Splice Plate Left Shear Plate Right Shear Plate Side Floor Frame Side Wall Channel Roof Beam Side Eave Channel Center Column Outer Truss Bracket Ridge Cap Side Roof Trim		4 2 4 4 2 2 2 2 2 2 1 2 2 2 2 2 4 10 2 4 4 11 2 2 2 2 2 4 10 10 10 10 10 10 10 10 10 10 10 10 10	8



◆ Parts Needed For ◆TrussAssembly

6947 Column Gusset (2) 6964 Lower Chord (2)

● 7003 Left Shear Plate (2)

6963 Upper Chord (2)
 7022 Eave Bracket (4)

7022 Eave Bracket (4)
 6959 Ou
 6962 Vertical Brace (2)
 9497 Ou
 7004 Right Shear Plate (2)
 6967 Shi

6958 Inner Truss Bracket (4)
6966 Outer Diagonal Brace (2)
6050 Outer Truss Bracket (4)

• 6965 Inner Diagonal Brace (2)

• 6959 Outer Truss Bracket (4)

9497 Outer Truss Bracket (4)
 6967 Splice Plate (1)

1 Assemble 1/2 truss at a time. Attach column gusset to lower chord securely using #1/4-20x1/2" hex head bolts and square nuts. All other connections are to be made loosely.

2 Fasten lower chord to upper chord and eave bracket to upper chord.

3 Fasten **vertical brace** to **lower chord**.

4 Fasten right shear plate and left shear plate to vertical brace and upper chord.

5 Fasten inner diagonal brace to upper chord and lower chord.

6 Fasten 2 inner truss brackets to upper chord and lower chord and inner diagonal brace as shown.

7 Fasten outer diagonal brace to upper chord and lower chord.

8 Fasten 2 outer truss brackets to upper chord, lower chord and outer diagonal brace.

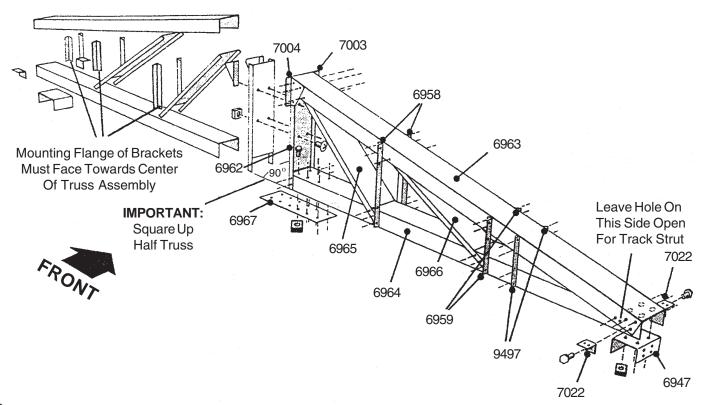
9 Fasten 2 outer truss brackets to upper and lower chords.

10 Square up 1/2 truss, adjust and tighten all fasteners.

11 Assemble the other half of truss.

12Splice both halves together with the **splice plate** and join with (4) #10-32x7/16" bolts and square nuts through **vertical brace**.

Make 1 assembly for the 14x21. Make 2 assemblies for the 14x31.



● Parts Needed For ● Gables/Column Assemblies

● 9494 Right Gable (2)

9495 Left Gable (2)

6955 Inner Gable Bracket (4)

9496 Outer Gable Bracket (4)

9490 Center Column (6 14x21) (10 14x31)

The gables go on top of the front and rear walls to support the roof beams. The center columns support the truss and the framework.

NOTE

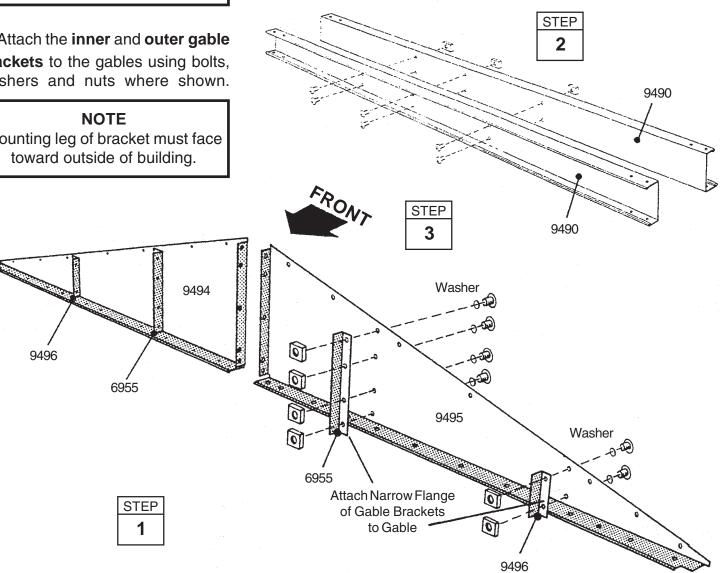
The gables are packed nested together and might be mistaken as one piece. Carefully separate them before continuing.

1 Attach the inner and outer gable brackets to the gables using bolts, washers and nuts where shown.

Mounting leg of bracket must face toward outside of building.

2Align the holes on the **center** columns back to back and fasten together using 6 bolts and nuts. Make 3 assemblies for the 14x21. Make 5 assemblies for the 14x31.

3Set these pieces aside for later assembly.



● Parts Needed For ● **Roof Beam Assemblies**

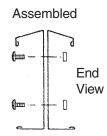
● 10456 Right Roof Beam (10)

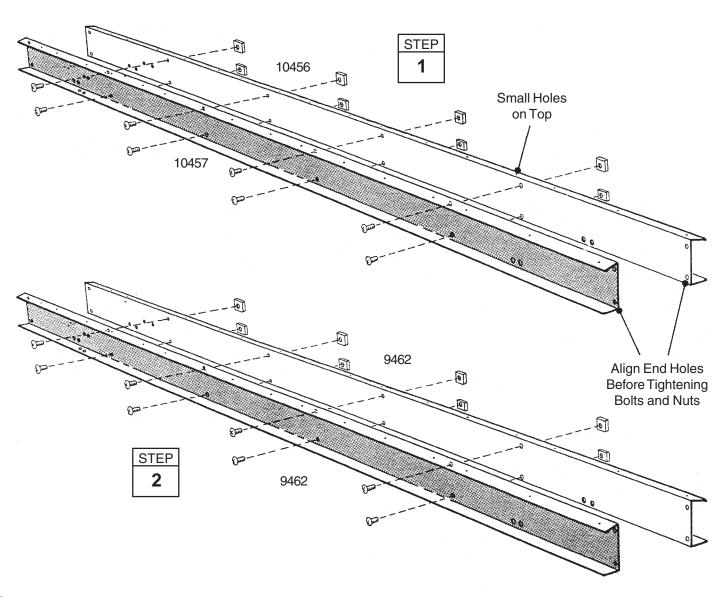
10457 Left Roof Beam (10)
 9462 Roof Beam (10 14x31)

The roof beams join the gables to the truss and supports the roof panels.

1 Align the holes on a left and right roof beam back-to-back and fasten together using 8 bolts and nuts. Make 10 assemblies.

2 On the 14x31 fasten **roof beams** together in the same manner. Make 5 assemblies.

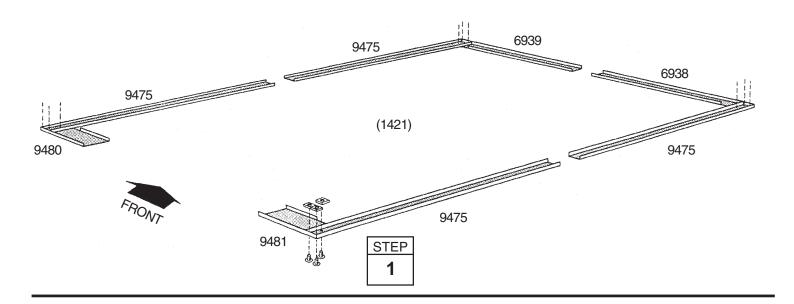


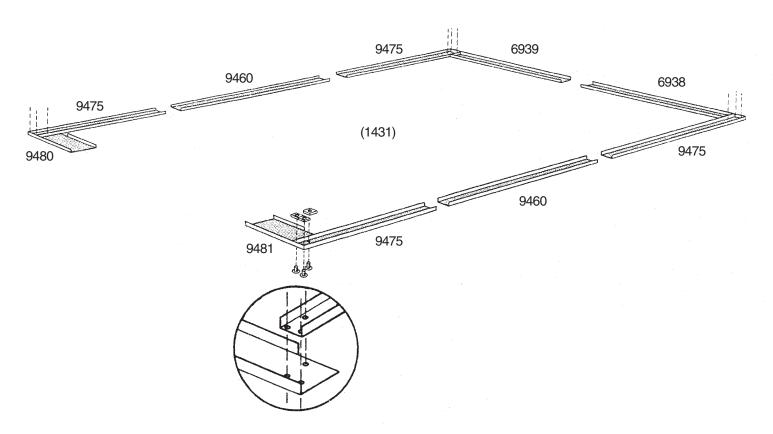


● Parts Needed For ● Floor Frame Assembly

- 9481 Front Frame (1)
- 9480 Front Frame (1)
- 9475 Side Floor Frame (4)
- 6939 Rear Frame (1)6938 Rear Frame (1)
- 9460 Side Floor Frame (2 14x31)

1 Place the floor frame pieces on the foundation. Assemble the 4 corners of the floor frame using 3 bolts from the bottom with nuts on top at each corner as shown.





● Parts Needed For ● **Gusset/Center Column**

9490

6947

6947 Column Gusset (3 14x21) (5 14x31)

9490

6947

STEP

- Center Column Assembly (3 14x21)
- Center Column Assembly (5 14x31)

9490

(1421)

- **1** Fasten side floor frames together with a column gusset using 2 bolts from the bottom and nuts on top. At rear of building, repeat procedure.
- **2** Position center column assemblies where floor frames are joined and fasten to gusset with 8 bolts.

Repeat procedure on sides of building for the 14x31.

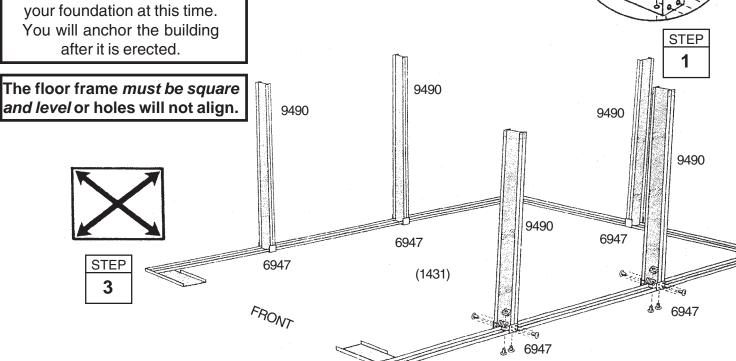
NOTE

Support center columns with stakes or other means until wall panels are attached.

3 Measure the floor frame diagonally. When the diagonal measurements are equal, the floor frame is square.

NOTE

Do not fasten the floor frames to your foundation at this time. You will anchor the building



BX2

- ◆ Parts Needed For ◆Corners
- 9471 Wall Panel (2)
- 9473 Front Wall Panel (2)
- 9472 Corner Panel (4)

NOTE

The remainder of the building assembly requires many hours and more than one person. Tie down and support assembly before the end of the work day. A partially assembled building can be severely damaged by light winds.

Each screw and bolt in the wall requires a washer.

1 Position a corner panel at the corner of the floor frame as shown. The widest part of each corner panel must be placed along the side of the building for all 4 corners. Fasten the corner panel to the floor frame with 4 screws.

Support the corner panel with a step ladder until a wall panel is attached.

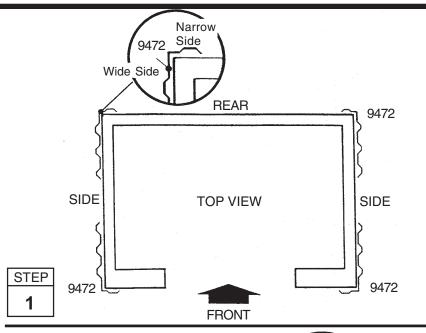
- **2** Attach the **front wall panels** to the front corner panels, as shown.
- **3** Attach the **wall panels** to the rear corner panels, as shown.

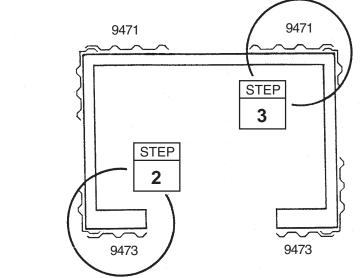
NOTE

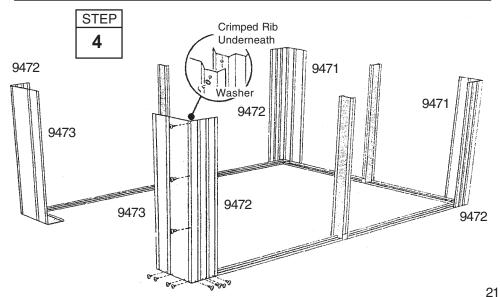
Be careful to install the correct panel in each position as shown.

4 Double-check the part numbers of the wall panels, before proceeding.

The floor frame *must be square* and level or holes will not align.







Parts Needed For • **Mid Frames**

- 9482 Right Front Wall Channel (2)
 9465 Support Column (2) • 9483 Left Front Wall Channel (2)
- 9476 Side Wall Channel (6)
- 6942 Right Rear Wall Channel (2)
- 6943 Left Rear Wall Channel (2)
- 9469 Side Door Channel (2)
- 9468 Corner Door Channel (2)

● 9461 Side Wall Channel (4 14x31)

The mid frame pieces give rigidity to the sides and rear wall.

NOTE

Before installing side wall channels decide at which location vou want the side entrance door. Do not install the 1x4 side wall channels at 1 of the 4 corner locations.

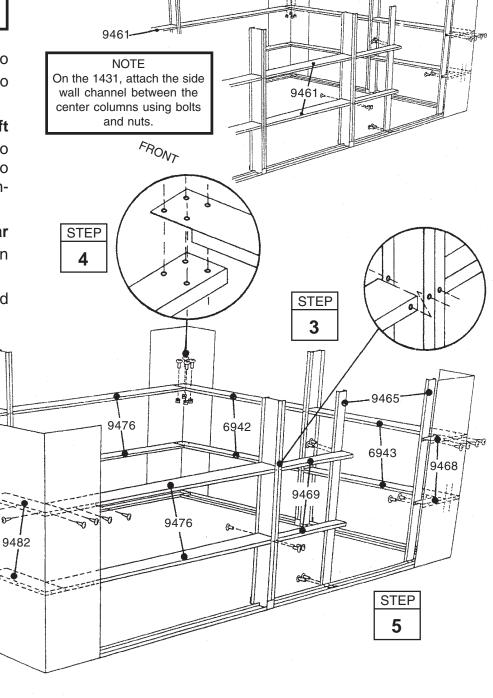
- Fasten side wall channels to center columns using 2 bolts and to corner panels using 4 screws.
- 2 Overlap with the right and left front wall channels and fasten to front wall panel using 3 screws. Do not fasten hole nearest door opening.
- 3 Overlap with right and left rear wall channels and fasten to column and wall panel.
- 4 Fasten overlaps using 4 bolts and nuts in each corner assembly.

STEP

9476

FRONT

5 Install support column to side floor frame and side door channel fastening channel to center column. Install 2nd support column to side floor frame and corner door chan**nel**. Fasten channel to corner panel and left rear wall channel.



9483

STEP 2

BX23

Parts Needed For ●Side Door Frames

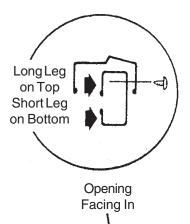
- 9484 Right Side Eave Channel (1)
- 7562 Track (1)
- 9467 Ramp (1)
- 9464 Lower Door Track (1)

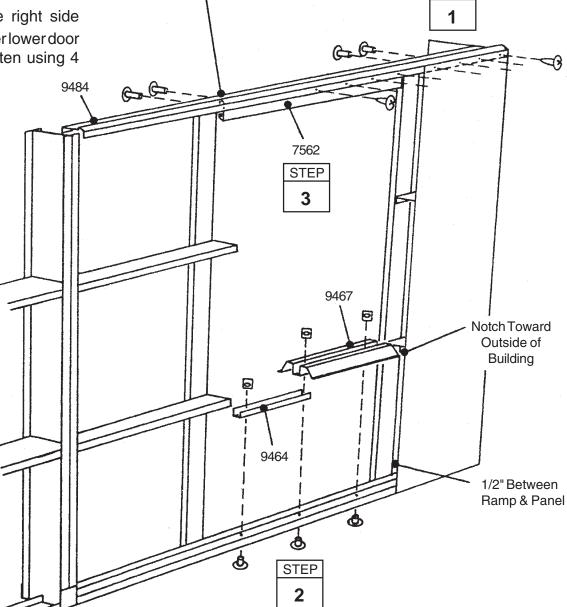
STEP

1 Position right side eave channel against support columns. Fasten channel to corner panel. Fasten columns to side eave channel using 2 bolts and nuts on each column.

2 Position **lower door track** inside the side floor frame. Overlap with **ramp** and fasten from the bottom using (3) #10-32x1/4" slotted head bolts and square nuts.

3 Position **track** inside right side eave channel, directly over lower door track and ramp, and fasten using 4 screws where shown.





Parts Needed For ●Front/Rear Frames

9474 Lintel (1)

● 9481 Front Frame (1)

● 9480 Front Frame (1)

9478 Front Column (2)

● 6947 Column Gusset (1)

6938 Rear Frame (1)6939 Rear Frame (1)

BX2

1 Fasten **front frames** at the top to front wall panels with 3 screws. Do not fasten hole nearest door opening at this time.

2 Fasten front columns to the frame at bottom and channel with 2 bolts.

Hint: Pull front wall panel slightly away to tighten bolts.

3 Position **lintel** across top of front frames and fasten with 2 bolts and nuts on both sides.

4 Position column gusset over rear columns and fasten with 8 bolts. At-**STEP** tach rear frames to gusset using 2 bolts and opposite end to wall panel using 3 screws. - [] -[] 6938 6939 STEP 1 9481 9480 6947 9474 STEP 9478 **STEP**

◆ Parts Needed For ◆Truss/Top Frames

- Truss Assembly (1 14x21) (2 14x31)
- 9484 Right Side Eave Channel (2)
- 9485 Left Side Eave Channel (2)
- 9463 Side Eave Channel (2 14x31)

BX25

1 Position Truss Assembly on building by sliding column gussets over center columns and fasten with 8 bolts and nuts on each gusset.

2 Position **right** and **left side eave channels** over eave brackets and fasten with a bolt and nut. Front and rear frames overlap side eave channels. Fasten overlaps with 3 bolts and nuts. Fasten corner panels to channels using 4 screws.

STEP 2 **NOTE** On the 1431, fasten the side eave channels over eave brackets 9485 using bolts and nuts. 9484 (1421)9484 Installed in Step 8 9485 STEP 9463

(1431)

9463

● Parts Needed For ● Walls Panels/Track Supports

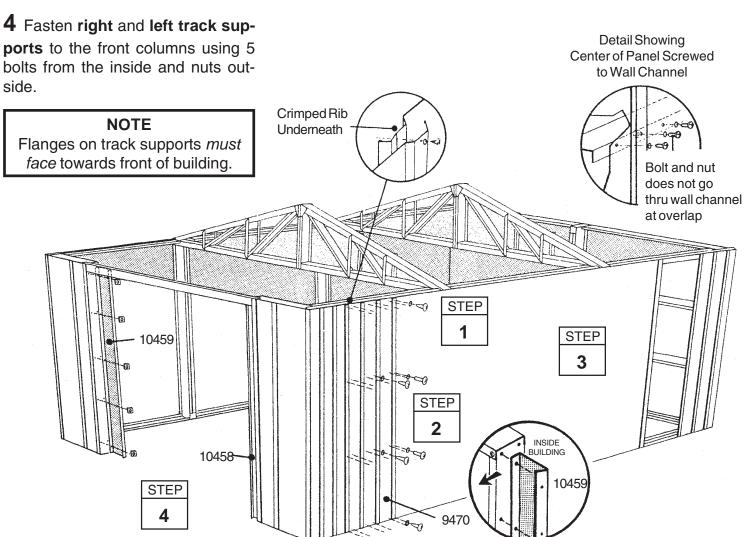
● 9470 Wall Panel (17 14x21) (8 14x31)

● 10458 Right Track Support (1)

● 10459 Left Track Support (1)

Each wall panel has a crimped rib on 1 side. The crimped rib should go under the rib of the panel that follows it.

- **1** Fasten the **wall panels** at the top and bottom with screws.
- **2** Fasten the center of each panel to the wall channel with screws. Fasten overlapping ribs using screws and bolts with nuts.
- **3** When you have attached all wall panels in the correct positions, the building will look like this.



◆ Parts Needed For ◆Wall Channel/Door Jamb

9477 Door Jamb (2)

● 9466 Wall Channel (2)

BX27

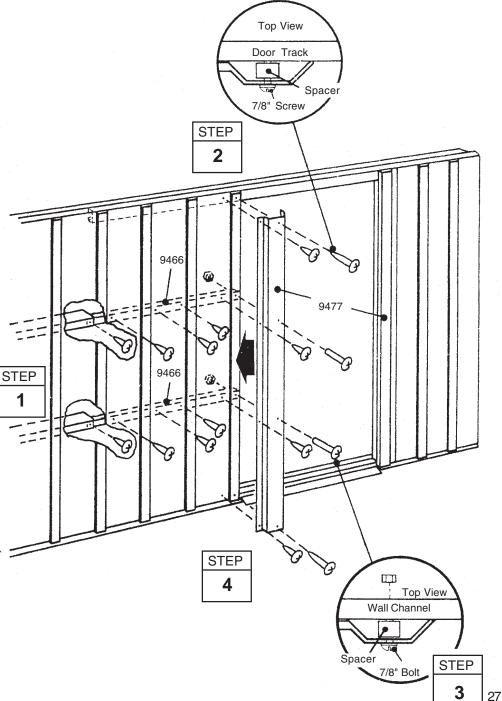
The door jambs reinforce the door opening and provide an attractive trim. Follow these steps for both door jambs.

1 Place wall channels behind wall panel, large hole towards door opening. Loosen wall panel and fasten wall channels to side wall channels using 1 screw, under panel. Replace panel and fasten wall channels to panel using 3 screws.

2Overlap the rib of wall panel with a **door jamb** and fasten at top to side eave channel and bottom to side floor frame using #6Ax7/8" screws and spacers. Positon spacer inside wall panel rib and channel or frame.

3Fasten door jamb at middle holes using #8-32x7/8" bolts, spacers and hex nuts. Spacer is positioned between wall panel rib and wall channel.

4 Fasten outer flange of door jamb to wall panel using 4 screws.



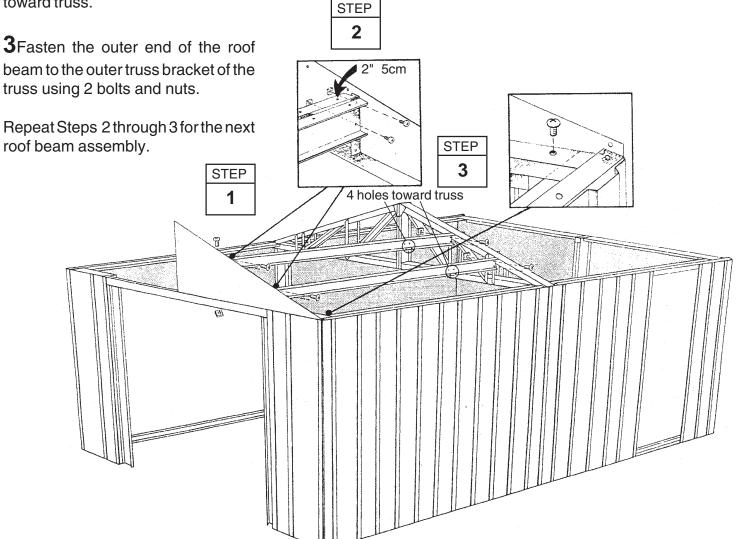
Parts Needed For Gable/Roof Beams

- Right Gable Assembly (1)
- Roof Beam Assembly (2)

1 Lift and fasten a right gable assembly at top of lintel using bolts and nuts.

2Spread the 2 halves of a roof beam assembly and fasten the roof beam to the outer gable bracket using 2 bolts and nuts.

Hint: The holes along the length of the beam must be on the top surface and 4 hole cluster must be fastened toward truss.



◆ Parts Needed For ◆**Gables/Roof Beams**

Roof Beam Assembly (8)

Left Gable Assembly (2)

Right Gable Assembly (1)

9462 Roof Beam Assembly (5 14x31)

BX29

1 Lift and fasten a left gable assembly in the same manner.

2Join the left and right gables together using a bolt and nut in the third hole from the bottom *only*.

3Apply the **weather stripping** along the mating edge of the left and right gables as shown. Cut the weather stripping to length.

4Install roof beam assemblies to the left side of building in the same manner. Slide a roof beam assembly over center gable flange and other end over shear plates on truss and fasten as before.

Repeat roof beam procedure for the opposite end of building. Note that 4 hole cluster in roof beam assembly, must be fastened toward truss.

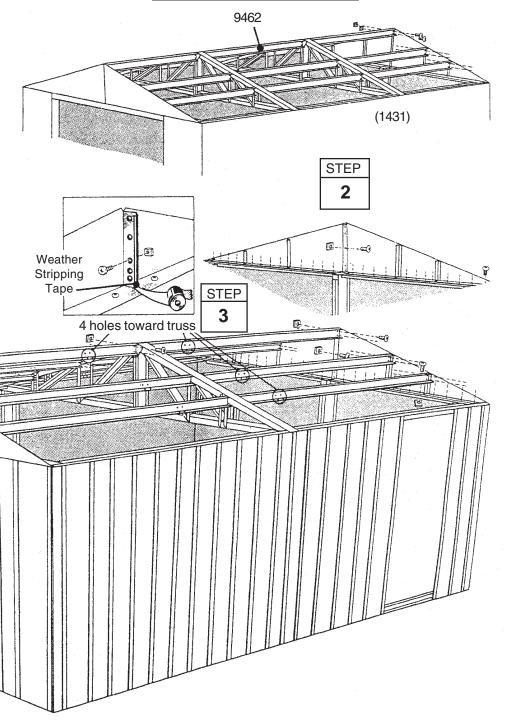
STEP

(1421)

STEP 4

NOTE

On the 1431, attach the roof beams between the truss assemblies as before



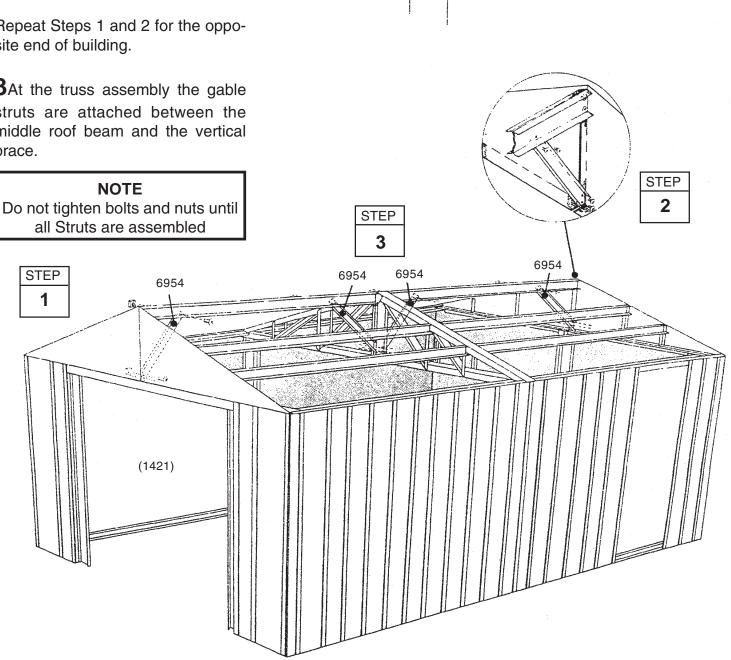
(1431)

1 Fasten a gable-truss strut to the middle roof beam behind the front gable by placing tab on the end of the strut between the roof beams. Align the tab with the holes and fasten the strut with 2 bolts and nuts.

2Fasten the lower end of the strut to the center gable flange with 2 bolts.

Repeat Steps 1 and 2 for the opposite end of building.

3At the truss assembly the gable struts are attached between the middle roof beam and the vertical brace.



Squaring the Building

BX3

1 Square the building on the foundation and at the top, by measuring diagonally from corner to corner as previously done.

2Use string to check and see if the sides and rear of building are straight, not bowed inward or outward.

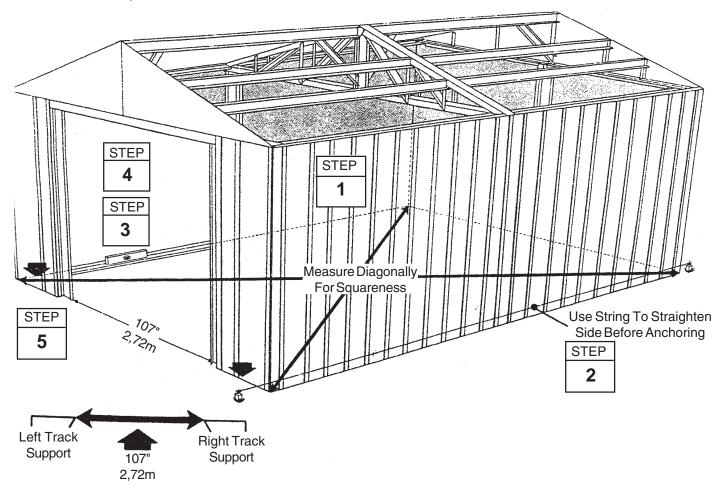
3Level the full perimeter of the floor frame. Shim under with wood shingles if necessary.

4Square the front of building as previously done for base.

5Anchor front frame to concrete with 1/4" diameter expandable anchor bolts or other means, where shown.

NOTE

The 107" (2,72m) door opening must be held for proper door alignment. Measure between the left and right track support.



● Parts Needed For ● Left/Right Roof Panels

• 9492 Right Roof Panel (2)

● 9493 Left Roof Panel (2)

BX32

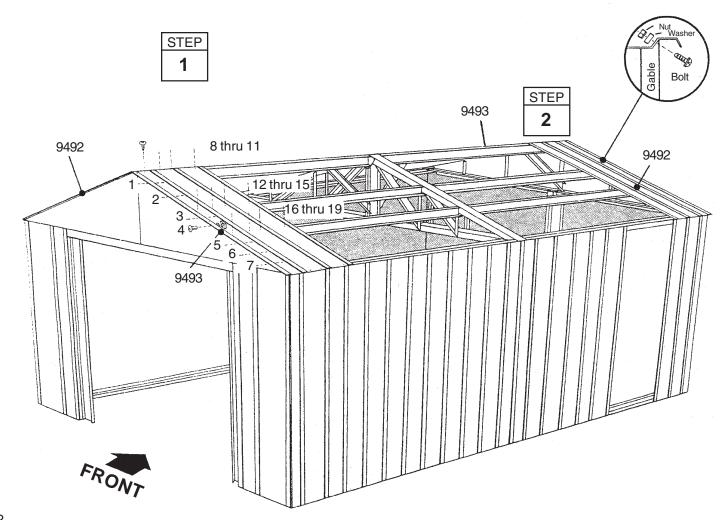
Installing the roof panels is best done with an 8' step ladder. Each screw and bolt in the roof requires a washer.

1 Position right and left roof panels at the front corners and fasten to the gable and roof beams using screws and bolts as shown. Do not fasten the lower end of the panels to the side eave channel at this time.

Hint: Follow the fastener sequence shown, for proper alignment.

2Install the right and left roof panels for the rear corners in the position shown.

SCREWS TO ROOF BEAM SCREWS TO ROOF BEAM SLOTTED HOLES AT TOP FASTEN AT OVERLAP SMALL HOLES AT BOTTOM



BX33

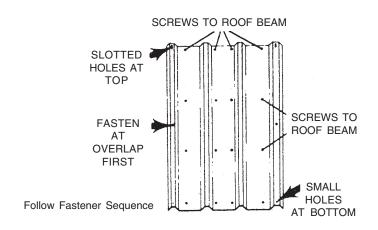
1 Position a **roof panel** overlapping rib of left corner roof panel. Fasten overlap at center of roof panel rib using a bolt and nut. Fasten to roof beams as done before using screws.

2Install a **roof panel** on the left side of building. Repeat procedure with 2 more **roof panels** working side to side. At the top beam end of panels, fasten 2nd roof panel rib overlaps with a bolt and nut.

3Cut the weather stripping tape into 6 strips, each strip about 2" (5cm) long. Press 2 strips over the bolt heads on overlaps at the top of panels. Save the other 4 strips for the rest of roof.

4Cover the join at the peak with weather stripping tape. Unroll the tape and press it down over the opening at the ridge as you install each roof panel. Do not cut the tape at this time.

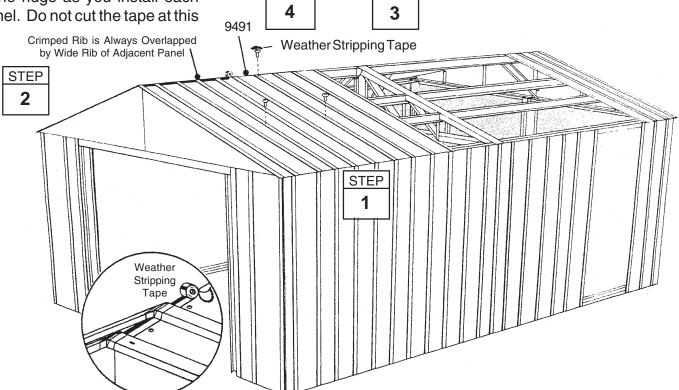
ROOF PANEL



NOTE

On the 1431, cut the weather stripping tape into 10 strips.

STEP



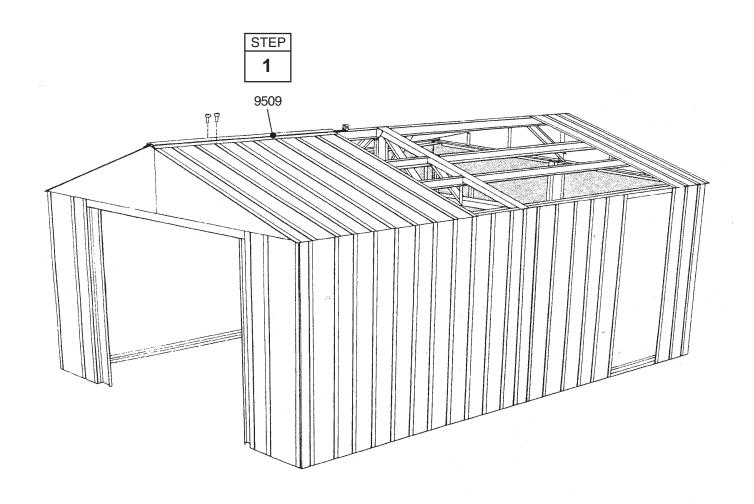
STEP

◆ Parts Needed For ◆Ridge Cap

● 9509 Ridge Cap (1)

BX34

1 Install a **ridge cap** on the completed roof section using bolts and nuts. Do not fasten the ends of the ridge cap at this time.



Parts Needed For ●Roof Panels & Ridge Cap

9509 Ridge Cap (1)9491 Roof Panel (6)

BX3

1 Install 4 **roof panels** working side to side.

NOTE

If roof beam holes do not line up with the roof panel holes, shift the building from left to right. If this does not help, your building may not be level. Shim the corners until holes line up.

2Unroll the weather stripping tape, press it down firmly, but do not cut.

3Install the second **ridge cap** overlapping the first ridge cap. Align the holes and fasten using bolts.

Alnstall 2 more roof panels. Fasten
5th top overlap and cover with weather strip over head of bolt.

STEP
2 9509

STEP
3 4

Weather strip over head of bolt.

◆ Parts Needed For ◆Roof Panels/Ridge Caps

• 9509 Ridge Cap (1)

• 9512 Ridge Cap (1 1431)

• 9491 Roof Panel (4 14x21) (12 14x31)

BX36

1 Install 2 more roof panels.

2Install the third ridge cap overlapping the second ridge cap as before. Temporarily remove the rear corner roof panels, and install the remaining 2 roof panels. Fasten 7th top overlap and cover with weather strip over head of bolt.

3Install the corner roof panels. Fasten ridge cap using bolts and nuts.

4Fasten the lower end of the panels to the side eave channels using screws and washers.

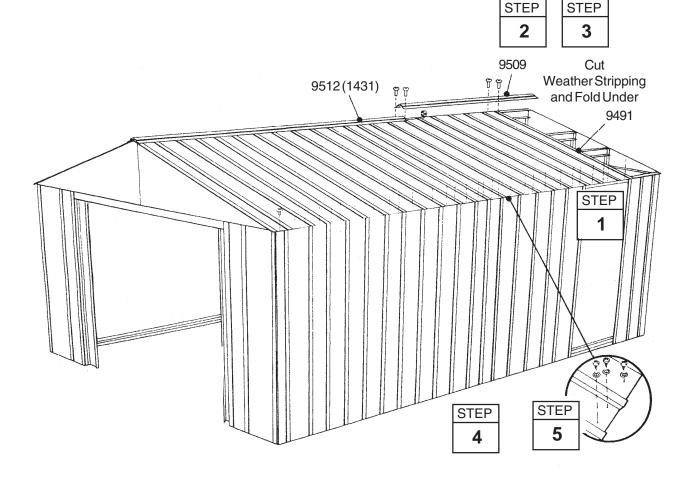
10n the 1431 install 2 more roof panels.

2Install the third **ridge cap** overlapping the second ridge cap as before. Install 6 more **roof panels**, while fastening 8th and 9th top overlap and cover with weather strip over head of bolt. Fasten ridge cap using bolts and nuts.

3Install 2 **roof panels**, and the fourth **ridge cap**. Temporarily remove the rear corner roof panels, and install the remaining 2 **roof panels**. Fasten 11th top overlap and cover with weather strip over head of bolt.

4Install the corner roof panels. Fasten ridge cap using bolts and nuts.

5Fasten the lower end of the panels to the side eave channels using screws and washers.



BX37

Parts Needed For ●Roof Trim

● 7023 Left Roof trim (2)

● 7024 Right Roof Trim (2)

9510 Side Roof Trim (6)
 9513 Side Roof Trim (2 1431)

1 Attach the side roof trim to the lower end of the roof panels on each side of the building using screws at each panel overlap.

NOTE

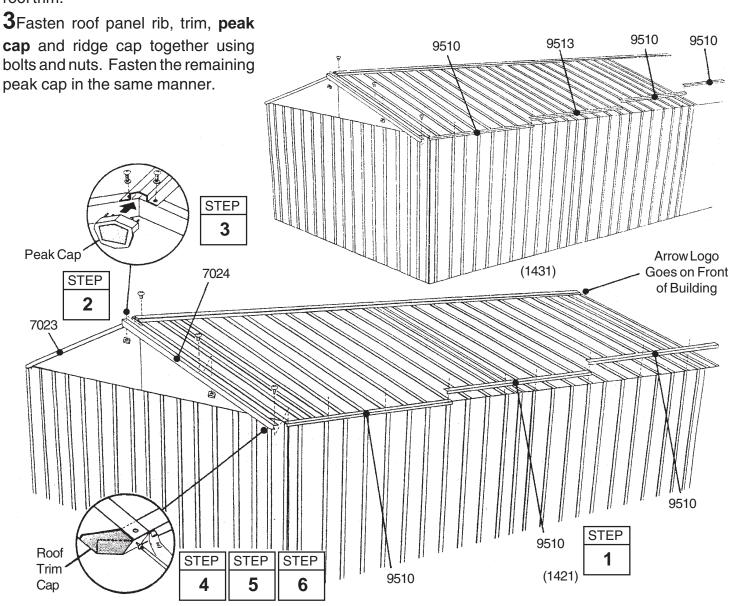
A single screw fastens both trim pieces at the overlap.

2Position **left** and **right roof trim** to the ends of roof, noting that trim slips under ridge cap, but fits on top of side roof trim.

4Using your thumb and index finger, overbend the bottom flange of the side roof trim at the corner inward enough so the right and left roof trim caps fit onto right and left corners.

5Fasten trim to side trim using a screw and washer into roof panel.

6 Fasten the roof trim caps to the side trim using a screw.



◆ Parts Needed For ◆Side Door Assembly

● 10490 Door (1)

10505 Horizontal Door Brace (2)

9500 Vertical Door Brace (2)

BX38

NOTE

To assemble door to slide from left to right (opening), position door with handle holes on left side of door. Position handle holes on right side if door is to slide from right to left (opening).

Each bolt and screw in the door requires a washer.

1 Hold the vertical door brace against the inside surface of door, align holes, and fasten with 3 screws.

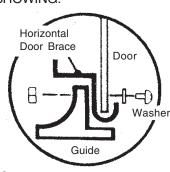
2Repeat Step 1 for remaining vertical door brace.

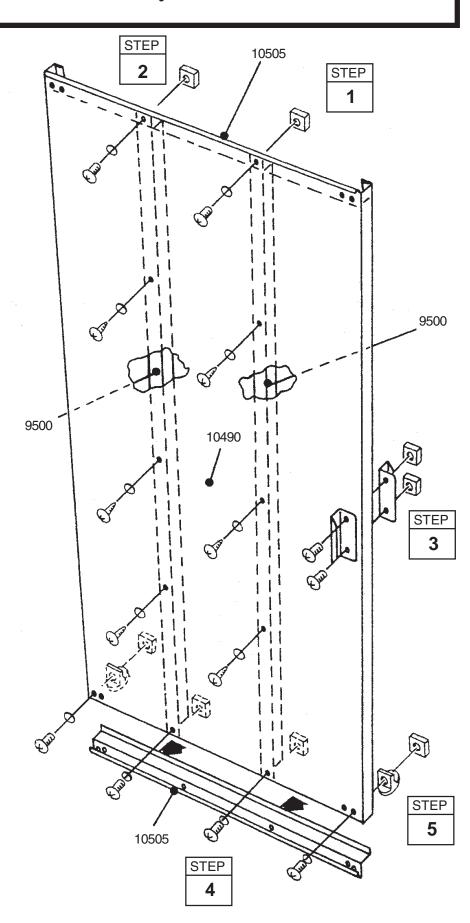
3Attach the **handle** to the door with 2 bolts and nuts, as shown.

4Put a **horizontal door brace** onto the top edge and bottom edge and fasten *with 2 bolts and nuts on each*.

5Attach the **lower door guides** as shown.

END VIEW SHOWING:





Parts Needed For ●Door Installation

Door Assembly (1)

■ 7972 Door Handle Lock Bracket (1)

BX39

1 Position door slides onto the legs, from the end of door track, as shown in the end view.

2From inside the building, put the bottom of the door behind door jamb into the lower door track.

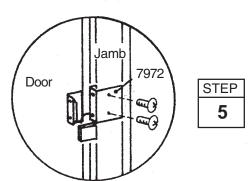
3Position the top of the door so that the holes in the door line up with the holes in the door slides.

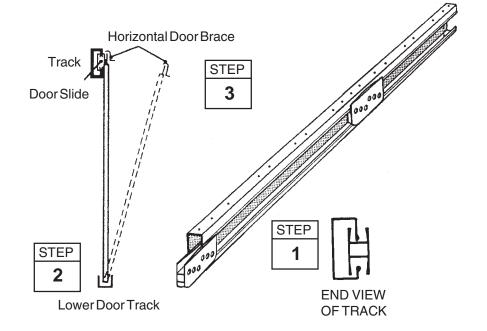
4Fasten the door to the door slides using two #10Bx1/2" screws per door slide.

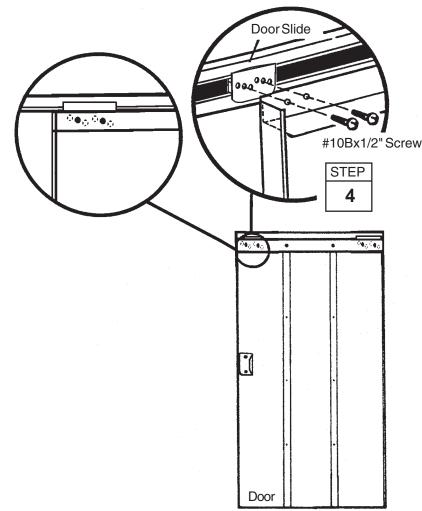
NOTE

The holes in the door slides allow you to adjust the door. Place the door in the middle holes.

5Position door handle lock bracket aligned with handle holes, against door jamb. Using a pencil mark through holes onto jamb, remove bracket and drill (2) 1/4" diameter holes in jamb. Fasten bracket to door jamb using 2 bolts and nuts.







● Parts Needed For ● **Vertical Tracks Roll-Up-Door**

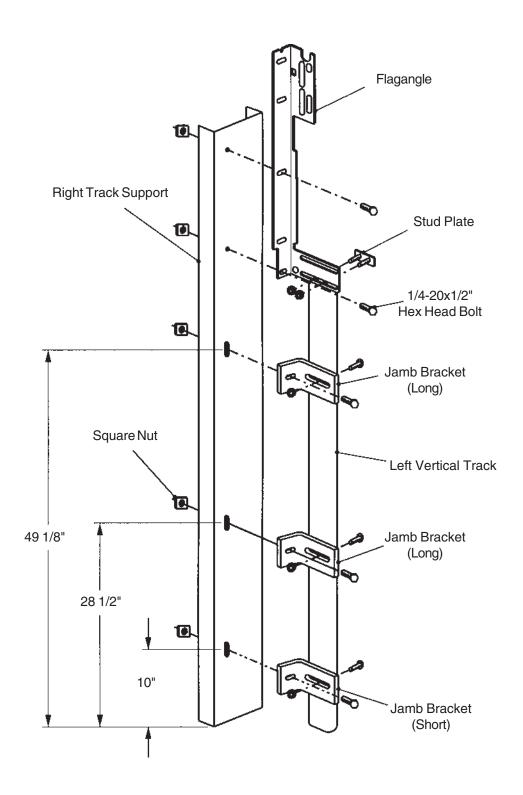
Right Vertical TrackLeft Vertical Track

BX40

1 Attach right and left vertical tracks loosely to right and left track supports using 1/4-20x1/2" hex head bolts and square nuts.

NOTE

Please refer to the Wayne Dalton Instruction Manual for assembly of the garage door and track components. This manual is packed with the garage door. The Arrow Owners Manual will be used for the attachment of the garage door to the building and for spring, snubber (safety) cable installation.



Parts Needed For Roll-Up-Door

● 7817 Spring Support Bracket (2)

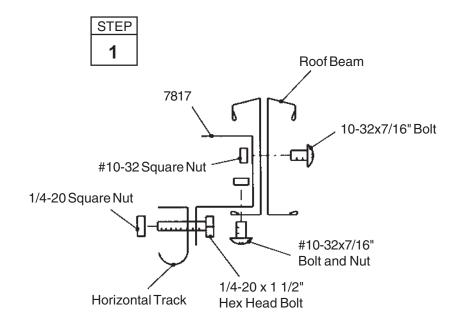
• 10455 Track Strut (2)

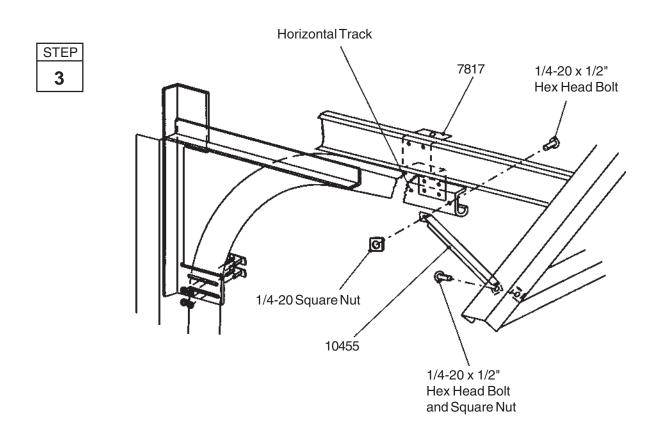
BX41

1 Install spring support brackets to the roof beams using bolts shown.

2Attach the **right** and **left horizontal track** to the right and left vertical track using bolts and nuts shown, following Wayne Dalton Instructions.

3Fasten **track struts** to open hole on truss assembly using 1/4-20x1/2" hex head bolt and square nut. Fasten opposite end to spring support bracket and horizontal track using 1/4-20x1/2" hex head bolt and square nut.





Parts Needed For Roll-Up-Door

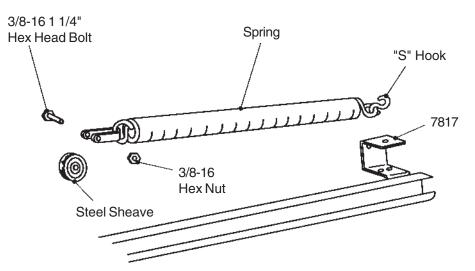
CAUTION: FROM THIS POINT ON, BE SURE TO USE EXTREME CAUTION UNTIL THE DOOR IS PROPERLY SPRUNG AND OPERATING

1 Attach "S" hooks to both springs.

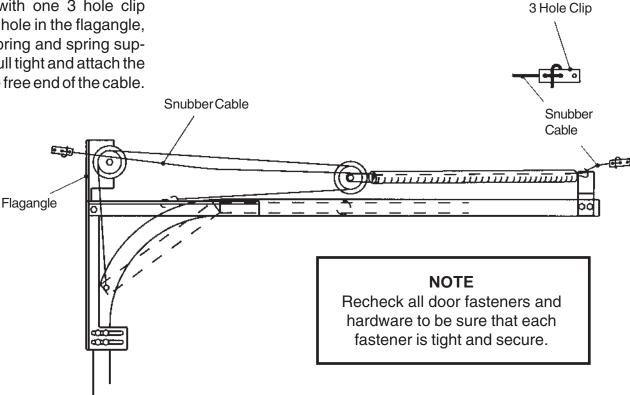
Fasten sheave and sheave fork to 3/8-16 1 1/4" opposite ends of springs following Hex Head Bolt Wayne Dalton Instructions. Attach spring assemblies to spring support brackets.

CHECK

Be sure that the lift cables do not rub and/or the rollers do not bind in the track when door is opened or closed. Recheck the springs to be sure that there is equal tension on both springs. This is extremely important for proper door operation.



Thread cable with one 3 hole clip attached thru a hole in the flagangle, then thru the spring and spring support bracket. Pull tight and attach the 3 hole clip to the free end of the cable.



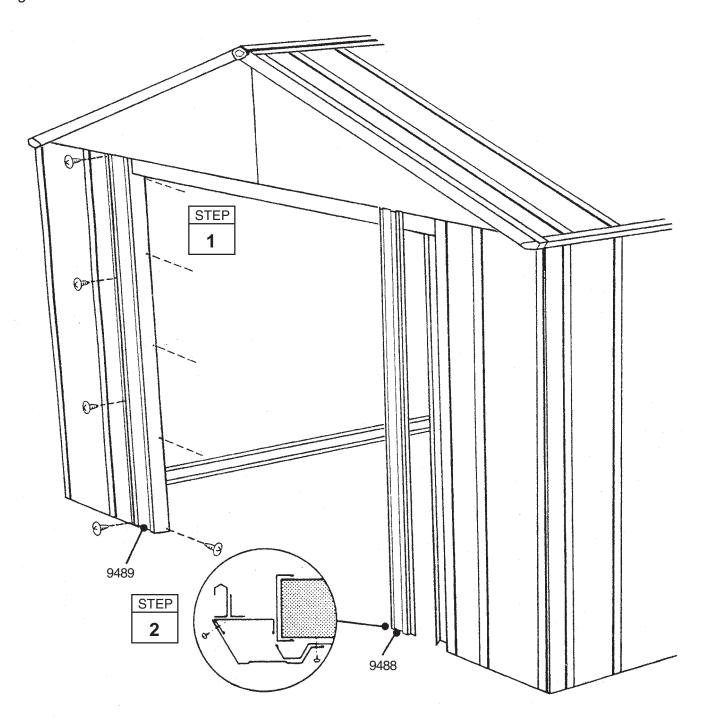
● Parts Needed For ● Right/Left Door Jambs

9488 Right Door Jamb (1)9489 Left Door Jamb (1)

BX43

1 Position right and left door jambs to right and left track supports with notched end on top, facing inside building.

2Fasten long flange to track support and short flange to front wall panel using screws and washers.



VT1421-A VT1431-A 697.68612-A 697.68613-A

BX44

SOME FACTS ABOUT RUST

Rusting is a natural oxidizing process that occurs when bare metal is exposed to moisture. Problem areas include screw holes, unfinished edges, or where scrapes and nicks occur in the protective coating through normal assembly, handling and use. Identifying these natural rusting problem areas and taking some simple rust protection precautions can help to stop rust from developing, or stop it quickly as soon as it appears.

- 1. Avoid nicking or scraping the coating surface, inside and out.
- 2. Use <u>all</u> the washers supplied. In addition to protecting against weather infiltration, the washers protect the metal from being scraped by the screws.
- 3. Keep roof, base perimeter and door tracks free of debris and leaves which may accumulate and retain moisture. These can do double damage since they give off acid as they decay.
- 4. Touch up scrapes or nicks and any area of visible rust as soon as possible. Make sure the surface is free of moisture, oils, dirt or grime and then apply an even film of high quality touch-up paint.