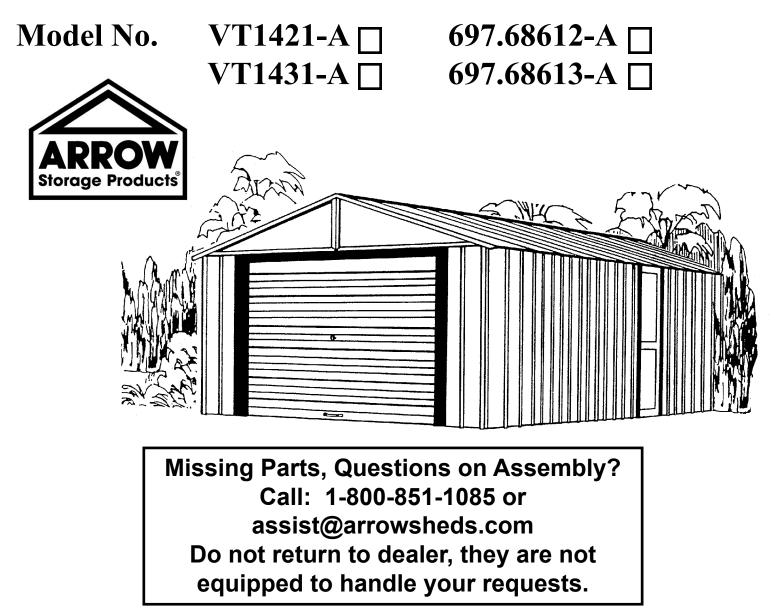
## **Owner's Manual & Assembly Instructions**



713770515

Storage Area: 1	4' x 21'	291 Sq. Ft.	2527 Cu. Ft.
	4,2 m x 6,5 m	27,0 m <sup>2</sup>	71,6 m³
1 1	4' x 31'	422 Sq. Ft.	3663 Cu. Ft.
	4,2 m x 9,4 m	39,2 m²	103,7 m <sup>3</sup>



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.

**BUILDING DIMENSIONS** \* Size rounded off to the nearest foot

*Approx.	Base	Exterior Dimensions (Roof Edge to Roof Edge)			Interior Dimensions (Wall to Wall)		
Size	Size	Width	Depth	Height	Width	Depth	Height
14' x 21'	164" x 255 1/2"	169"	260 3/4"	116"	164"	255 1/2"	114 1/2"
14' x 31'	164" x 370 1/2"	169"	375 3/4"	116"	164"	370 1/2"	114 1/2"
4,2 m x 6,5 m	416,6 cm x 649,0 cm	429,3 cm	662,3 cm	294,6 cm	416,6 cm	649,0 cm	290,8 cm
4,2 m x 9,4 m	416,6 cm x 941,1 cm	429,3 cm	954,4 cm	294,6 cm	416,6 cm	941,1 cm	290,8 cm

### **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 successful results.

Flooring and Anchoring: Your storage building must be anchored to prevent wind damage. A base is necessary to construct a square and level building. Anchoring and base 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 ground (Available by mail order or at your local dealer) or you may construct a base 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 Shed, LLCCustomer Service Department1101 North 4th StreetBreese, Illinois 62230

### 1-800-851-1085 or assist@arrowsheds.com

•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.

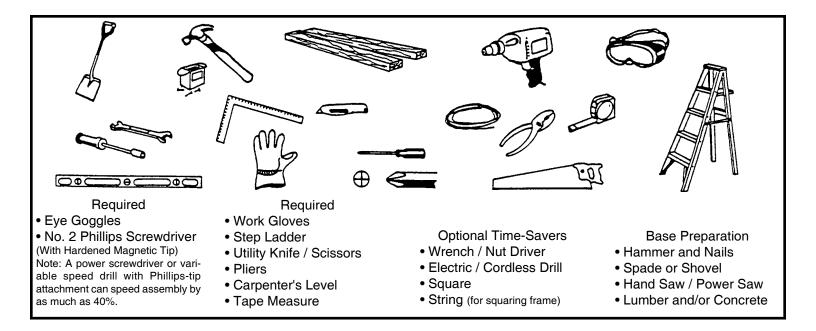
BW2

### PLAN AHEAD....

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 base 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.

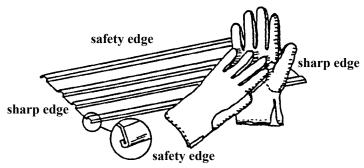
•Before you begin the first steps in assembling your parts, a base should be constructed and an anchoring system should be ready to use.

A04

### SAFETY FIRST....

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

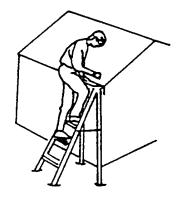
•Care must be taken when handling various pieces of your building since some contain sharp edges. Please wear work gloves, eye protection and long sleeves when assembling or performing any maintenance on your building.



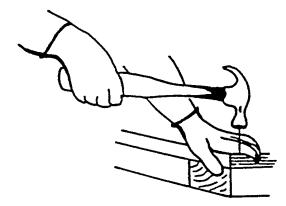
•Keep children and pets away from worksite to avoid distractions and any accidents which may occur.



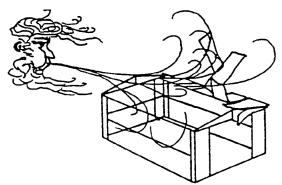
•Never concentrate your total weight on the roof of the building. When using a step ladder make sure that it is fully open and on even ground before climbing on it.



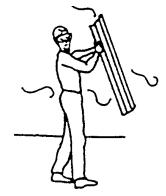
•Practice caution with the tools being used in the assembly of this building. Be familiar with the operation of all power tools.



•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 or assist@ arrowsheds.com



•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.



A05

**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.

BW05

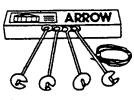
### **ACCESSORIES....**

We recommend that you purchase accessory items from your local storage building dealer whenever possible however, because the full line of accessories is not always available from all dealers, Arrow is offering them to you on a direct basis. For prompt shipment, please fill out order form and mail.

#### ANCHOR KITS

#### Model No. AK4

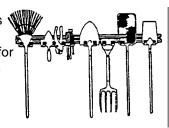
Anchor Kit contains heavy-duty steel augers, 60' (18 m) of steel cable and 4 cableclamps. No digging or concrete pouring, just insert cable under roof, over roof beams, into augers and twist augers into the ground. For buildings larger than 10'x9' (3,0 m x 2,6 m), use 2 kits.



#### **TOOL HANGING RACK**

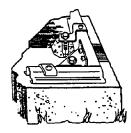
#### Model No. TH100

The perfect tool organizer. Twin 25 1/2" (64.8 cm) steel channels v 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.



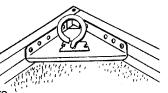
#### Model No. AK100

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.



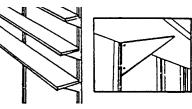
#### Model No. AK600

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.



#### 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 Arrow buildings.\*



Model No. SS404

- Makes 8" to 12" (20,3-30,5 cm) Grey color wide shelves in any length.
- Brackets, braces, hardware included. Lumber is not included.



- Model No. SS900-A
- 3 shelves
- Holds up to 85 lbs. (38 kg) (even weight distribution)
- \* Some drilling required to fit buildings without mid-wall bracing.

BW06

### **ORDERING ACCESSORIES....**

02/13

We recommend that you purchase accessory items from your local storage building dealer whenever possible; however, because the full line of accessories is not always available from all dealers, **Arrow** is offering them to you on a direct basis.

#### There are two ways to order Arrow Storage Building Accessories:

Option 1	Option 2
Accessories can be purchased through	Order accessories by telephone using your MasterCard or Visa credit card.
arrowsheds.com	Call toll free <b>1-800-851-1085</b> (Customer Service).
	Allow 2 weeks for delivery.

#### SPECIAL NOTE:

If your accessory is shipped via truck line a day time phone number is required to arrange delivery. If no one is available to sign for the delivery, you may be subject to a re-delivery charge assessed by the carrier.

A08

### Base

BX09

### The Base For Your Building

#### **Concrete Slab**

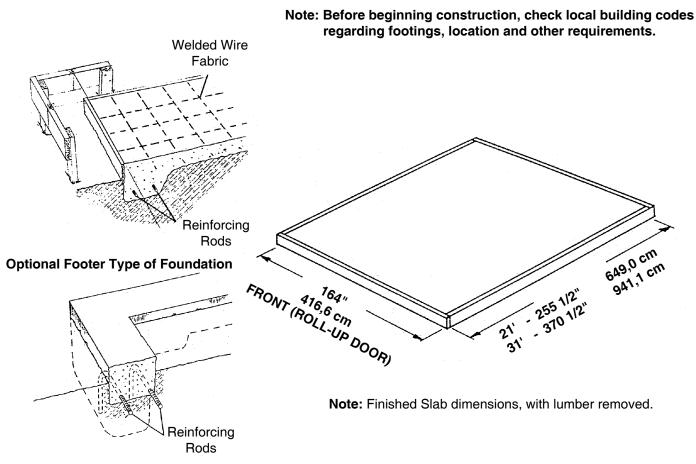
The slab should be at least 4" (10,2 cm) thick. It must be level and flat to provide good support for the frame. The following are the recommended materials for your base.

- 2 x 4's (38 mm x 89 mm) (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 Base

- 1. Dig a square, 6" (15,2 cm) deep into the ground (remove grass).
- 2. Fill up to 4" (10,2 cm) 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 (38 mm x 89 mm) lumber.
- 5. Pour in concrete to fill in the hole and the frame giving a total of 4" (10,2 cm) thick concrete. Be sure surface is level.

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



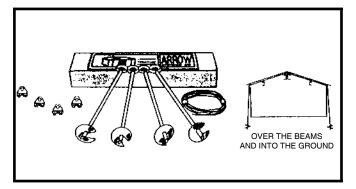
### Anchoring

### **Anchoring Down The Building**

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

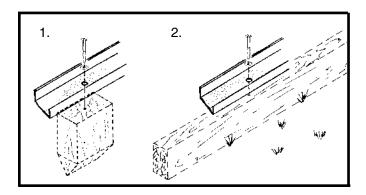
Below are recommended ways of anchoring.

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

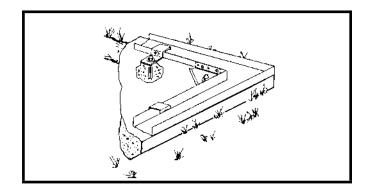


#### Anchoring into Wood/Post:

Use 1/4" (6 mm) Wood Screws. There are 1/4" (6 mm) dia. holes provided in the frames for proper anchoring.

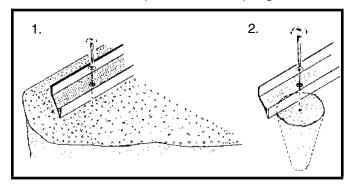


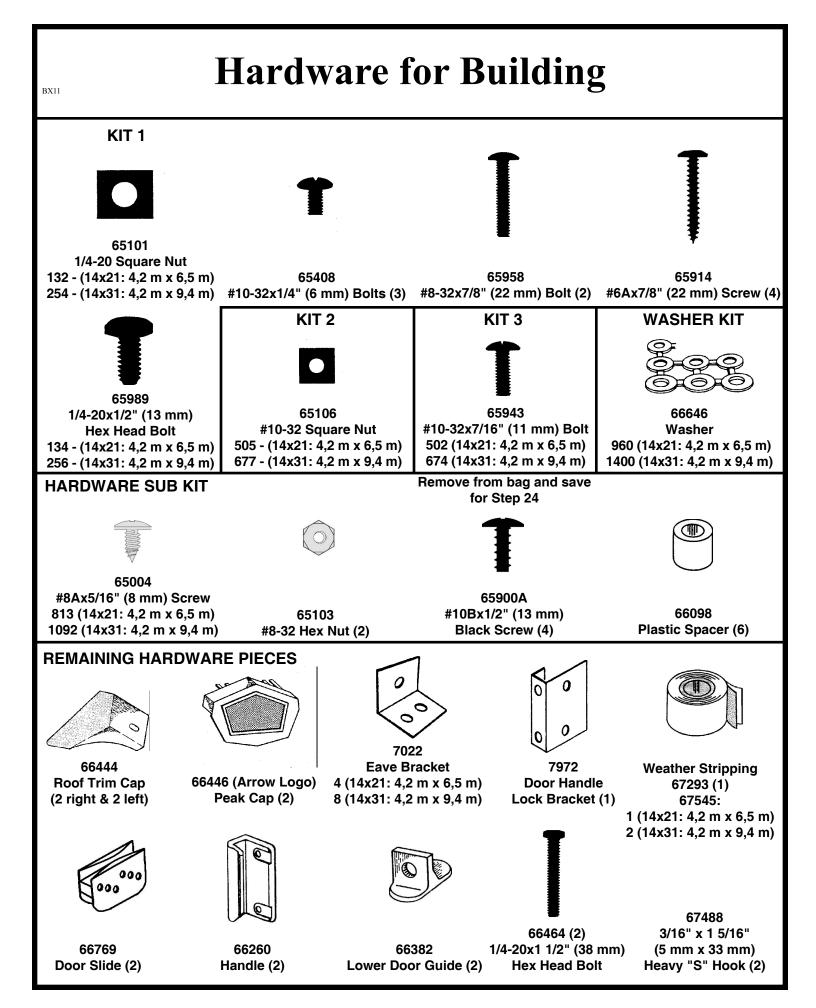
Arrow Anchoring Kit: (Model No. AK100 or 68383) Recommended for use with the **concrete** base. **Contains:** Corner gussets, perimeter clips, hardware, 1/4" masonary drill bit and installation instruction.



#### Anchoring into Concrete:

 For poured concrete slab or footing or patio blocks: Use 1/4" x 2" (6 mm x 51 mm) Lag Screws.
 For Anchor Post of Concrete poured after building is erected: Use 1/4" x 6" (6 mm x 152 mm) Lag Screws.



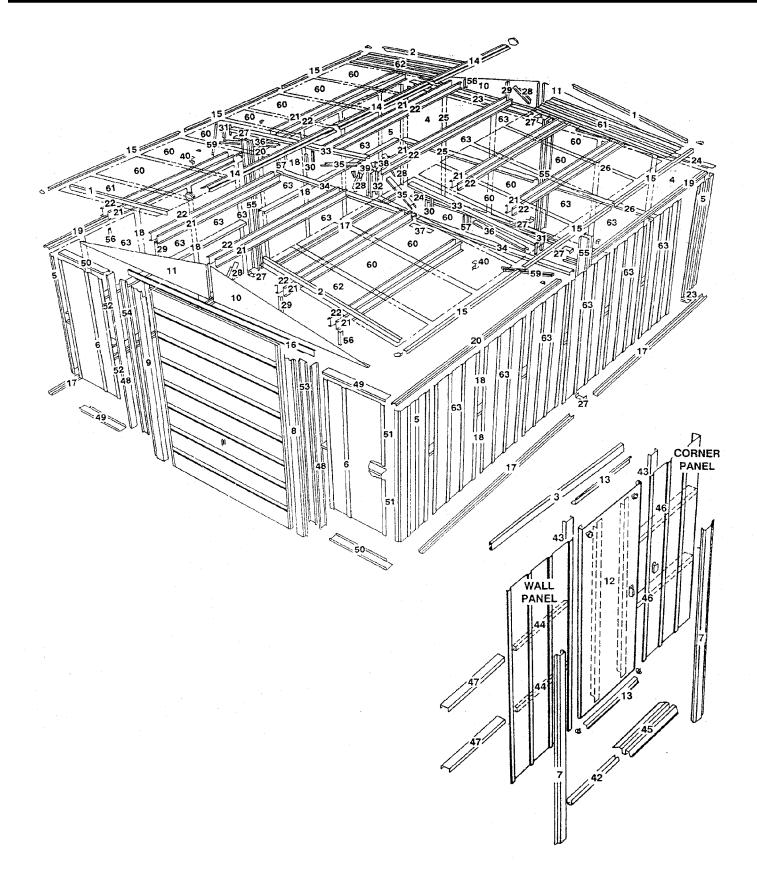


### **Parts List**

Carton #1 through #5 contain parts for a 14x21 (4,2 m x 6,5 m). Page 14 contains the additional parts for a 14x31 (4,2 m x 9,4 m).

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

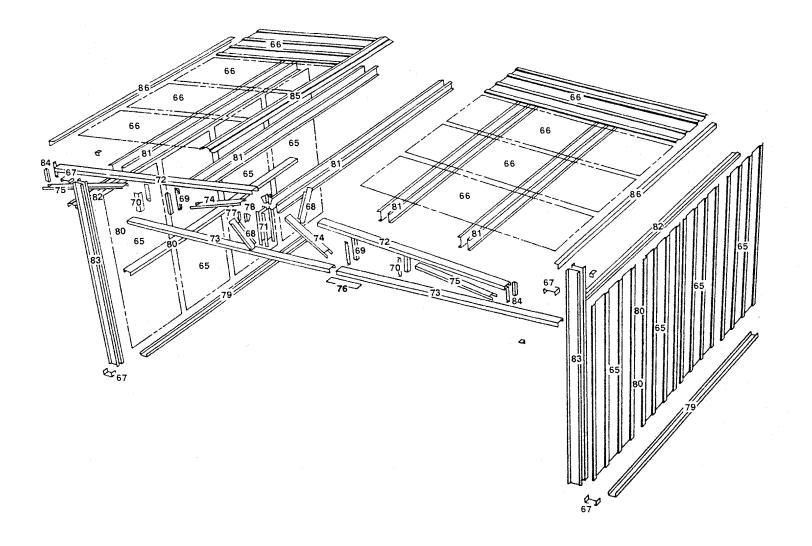
### Assembly by Key No. 14x21 (4,2 m x 6,5 m)



### Additional Parts 14x31 (4,2 m x 9,4 m)

Assembly Part Key No.	Part Number	Description	Carton 6 & 7 Wayne Dalton Door	Carton 8	Carton 9
65	9470	Wall Panel			8
66	9491	Roof Panel			8
67	6947	Column Gusset		4	
68	6954	Gable/Truss Strut		2	
69	6958	Inner Truss Bracket		4	
70	6959	Outer Truss Bracket		4	
71	6962	Vertical Brace		2	
72	6963	Upper Chord		2	
73	6964	Lower Chord		2	
74	6965	Inner Diagonal Brace		2	
75	6966	Outer Diagonal Brace		2	
76	6967	Splice Plate		1	
77	7003	Left Shear Plate		2	
78	7004	Right Shear Plate		2	
79	9460	Side Floor Frame		2	
80	9461	Side Wall Channel		4	
81	9462	Roof Beam		10	
82	9463	Side Eave Channel		2	
83	9490	Center Column		4	
84	9497	Outer Truss Bracket		4	
85	9512	Ridge Cap		1	
86	9513	Side Roof Trim		2	

### Assembly by Key No. 14x31 (4,2 m x 9,4 m)



Parts Needed For 
 Truss Assembly

- 6947 Column Gusset (2)
  6964 Lower Chord (2)
  6963 Upper Chord (2)
  7022 Eave Bracket (4)
  6962 Vertical Brace (2)
  7004 Right Shear Plate (2)
  7003 Left Shear Plate (2)
- 6965 Inner Diagonal Brace (2)
   6958 Inner Truss Bracket (4)
- 6966 Outer 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" (13 mm) 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.

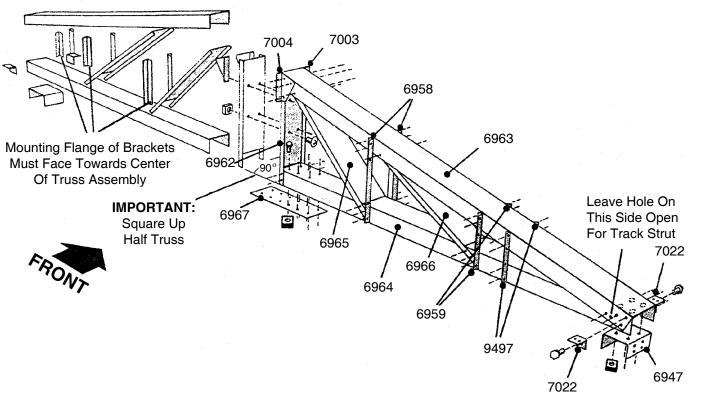
**10** Square up 1/2 truss, adjust and tighten all fasteners.

**11**Assemble the other half of truss.

**12**Splice both halves together with the **splice plate** and join with (4) #10-32x7/16" (11 mm) bolts and square nuts through **vertical brace**.

Make 1 assembly for the 14x21 (4,2 m x 6,5 m).

Make 2 assemblies for the 14x31 (4,2 m x 9,4 m).



### 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: 4,2 m x 6,5 m)

(10 14x31: 4,2 m x 9,4 m)

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.

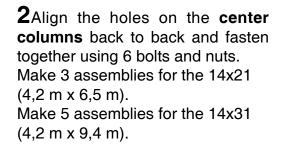
Step 2

#### NOTE

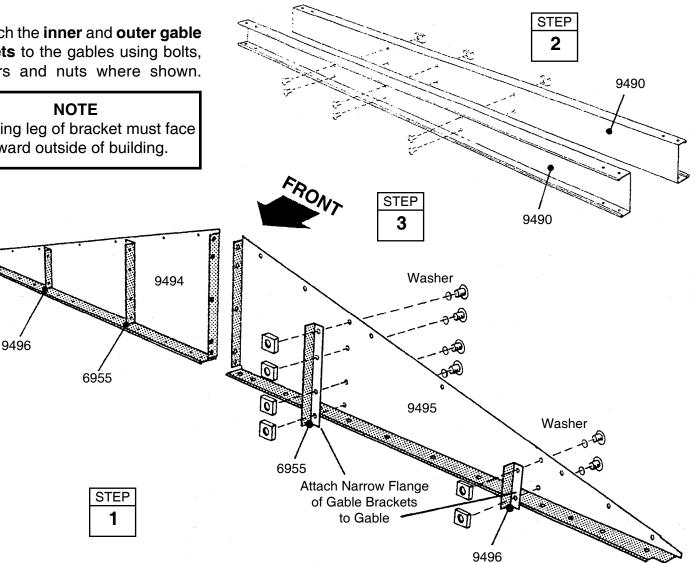
The gables are packed nested together and might be mistaken as one piece. Carefully separate them before continuing.

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

NOTE Mounting leg of bracket must face toward outside of building.



**3**Set these pieces aside for later assembly.



# Parts Needed For Roof Beam Assemblies

• 10456 Right Roof Beam (10)

• 10457 Left Roof Beam (10)

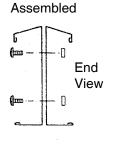
● 9462 Roof Beam (10 14x31: 4,2 m x 9,4 m)

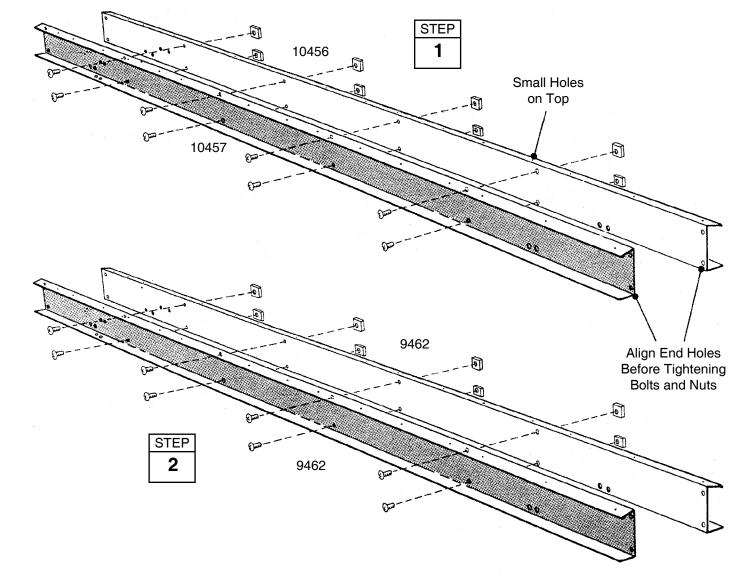
The roof beams join the gables to the truss and supports the roof panels.

Step 3

**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 (4,2 m x 9,4 m) fasten **roof beams** together in the same manner. Make 5 assemblies.

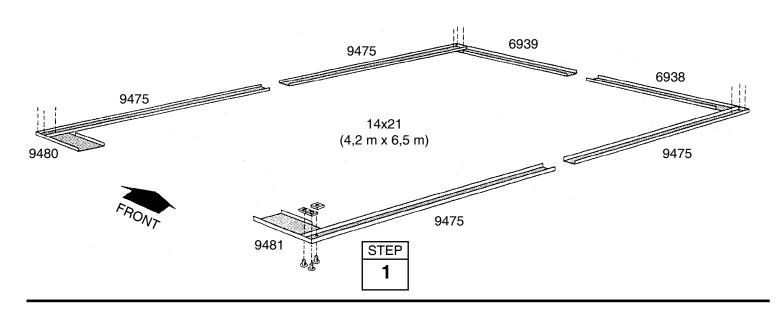


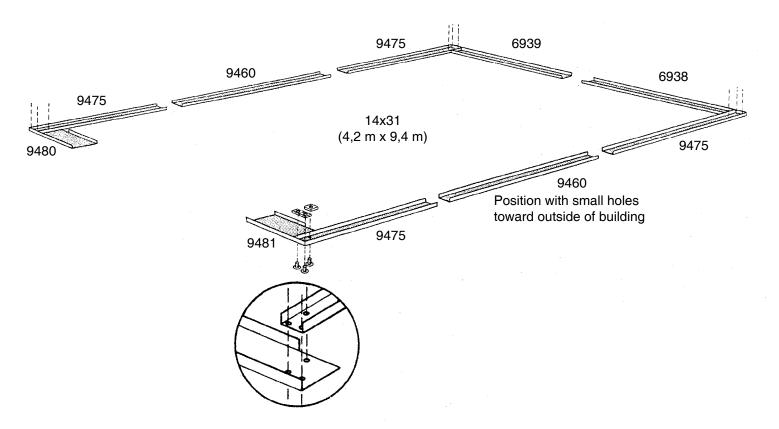


• 9481 Front Frame (1) 9480 Front Frame (1) ● Parts Needed For ● Step 4 • 9475 Side Floor Frame (4) • 6939 Rear Frame (1) **Floor Frame Assembly** • 6938 Rear Frame (1)

• 9460 Side Floor Frame (2 14x31: 4,2 m x 9,4 m)

**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 •

• 6947 Column Gusset (3 14x21: 4,2 m x 6,5 m) (5 14x31: 4,2 m x 9,4 m) Gusset/Center Column 
• Center Column Assembly (3 14x21: 4,2 m x 6,5 m)

Center Column Assembly (5 14x31: 4,2 m x 9,4 m)

**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. 9490 9490 **2** Position center column assemblies where floor frames are joined and 9490 fasten to gusset with 8 bolts. 6947 Repeat procedure on sides of building for the 14x31 (4,2 m x 9,4 m). 6947 14x21 (4,2 m x 6,5 m) 6947 NOTE FRONT Support center columns with STEP stakes or other means until wall 2 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 STEP after it is erected. 1 The floor frame *must be square* 9490 and level or holes will not align. 9490 9490 9490 9490 6947 6947 STEP 6947 14x31 (4,2 m x 9,4 m) 3 FRONT 6947 କା 6947 Åå.

#### Parts Needed For •

• 9471 Wall Panel (2) • 9473 Front Wall Panel (2)

#### Corners

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.

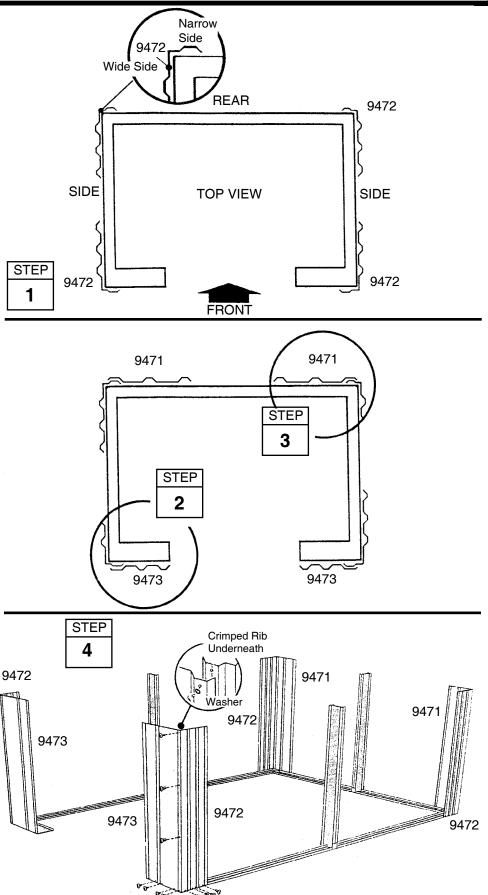
2 Attach the front wall panels to the front corner panels, as shown.

**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)
- 9483 Left Front Wall Channel (2)
- 9476 Side Wall Channel (6)
- 6942 Right Rear Wall Channel (2)
- 6943 Left Rear Wall Channel (2)
- 9465 Support Column (2)
- 9469 Side Door Channel (2) • 9468 Corner Door Channel (2)
- 9461 Side Wall Channel (4 14x31: 4,2 m x 9,4 m)

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

#### NOTE

Before installing side wall channels decide at which location you want the side entrance door. Do not install the 1x4 (2,5 cm x 10,2 cm) 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.

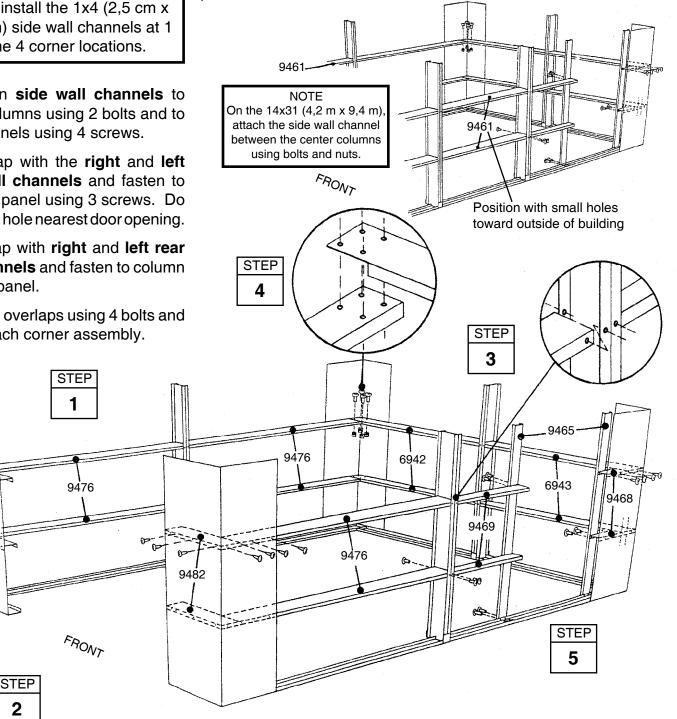
2 Overlap with the right and left front wall channels and fasten to front wall panel using 3 screws. Do not fasten hole nearest door opening.

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.

9483

**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 channel. Fasten channel to corner panel and left rear wall channel.

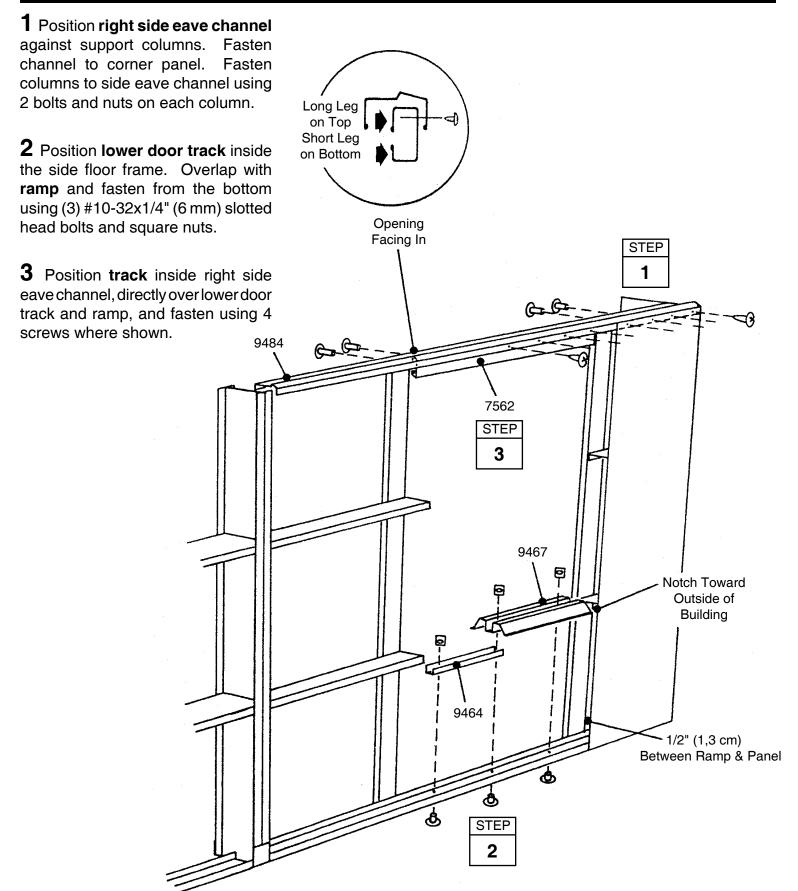


# Parts Needed For Side Door Frames

• 9484 Right Side Eave Channel (1)

• 7562 Track (1)

9467 Ramp (1)
 9464 Lower Door Track (1)



● 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)

STEP

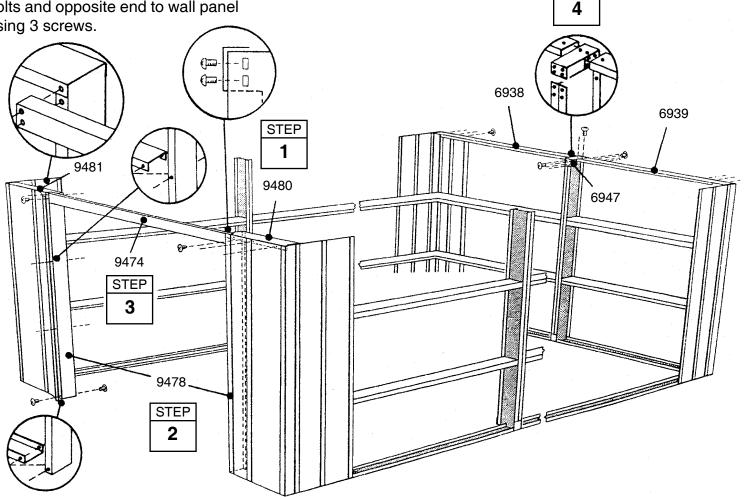
**1** Fasten **front frames** at the top to front wall panels with 3 screws. Do not fasten hole nearest door opening at this time.

**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. Attach **rear frames** to gusset using 2 bolts and opposite end to wall panel using 3 screws.



Parts Needed For Truss/Top Frames

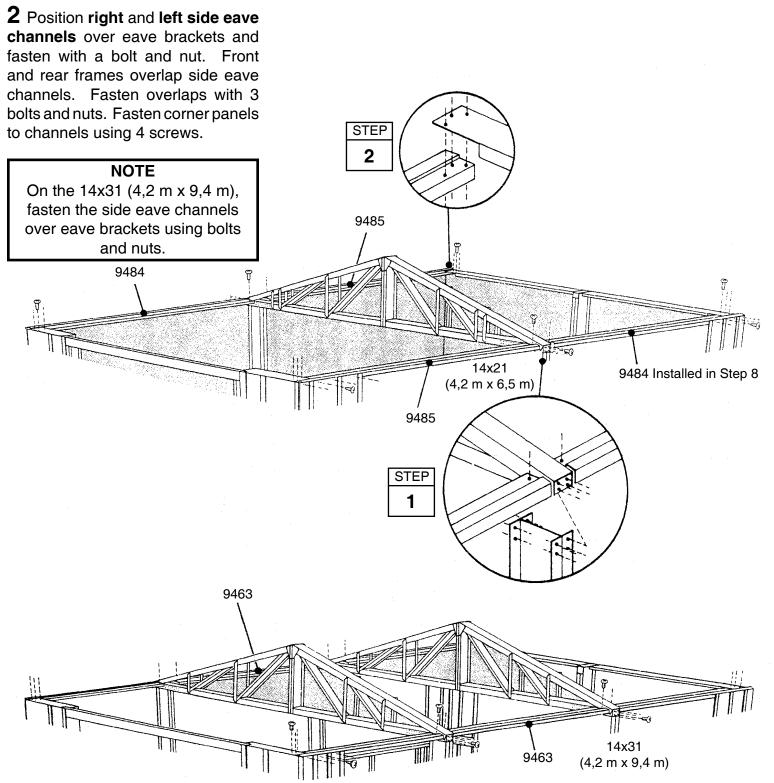
• Truss Assembly (1 14x21: 4,2 m x 6,5 m)

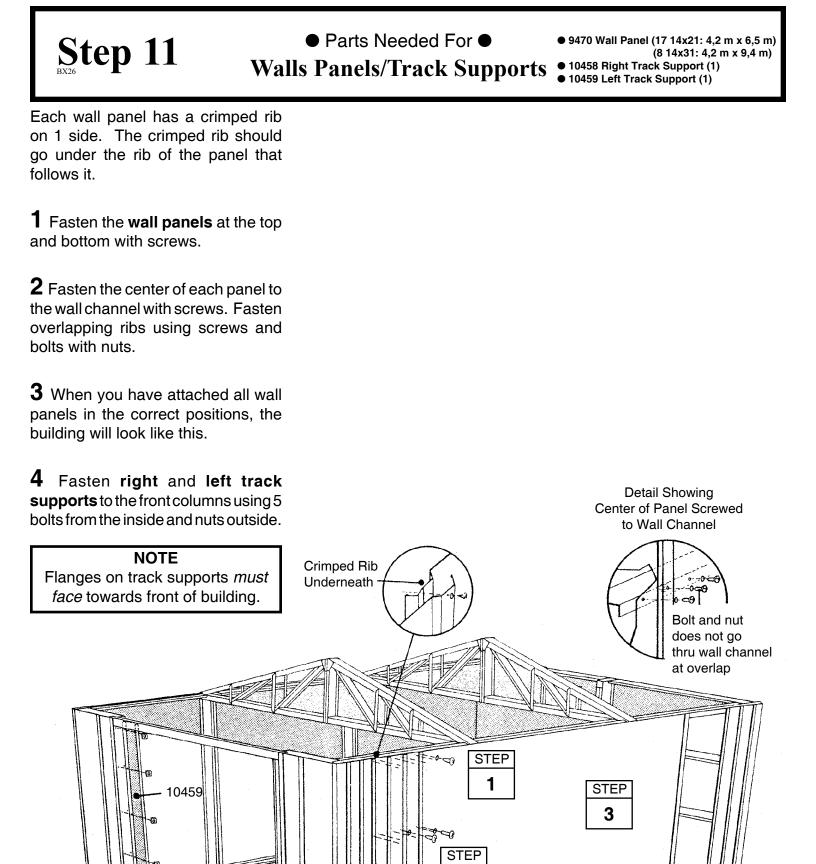
(2 14x31: 4,2 m x 9,4 m) ● 9484 Right Side Eave Channel (2)

9485 Left Side Eave Channel (2)

• 9463 Side Eave Channel (2 14x31: 4,2 m x 9,4 m)

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





STEP  

# Parts Needed For Wall Channel/Door Jamb

9477 Door Jamb (2)
9466 Wall Channel (2)

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

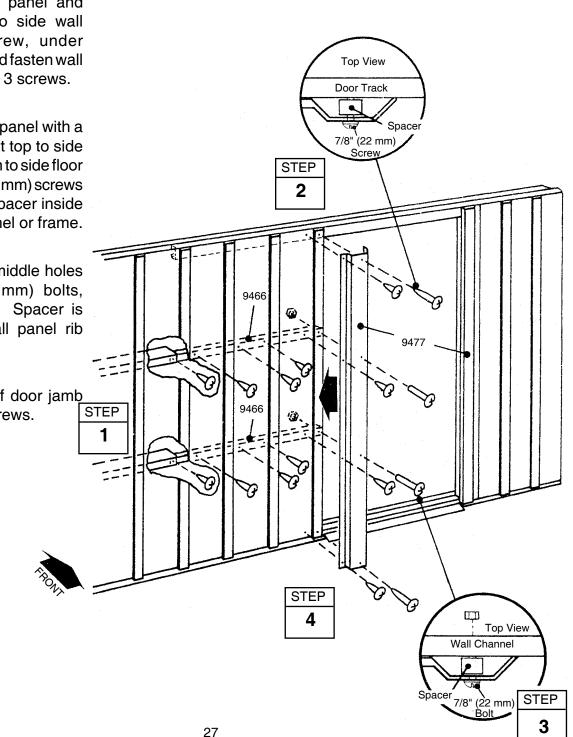
**Step 12** 

**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.

**2**Overlap 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" (22 mm) screws and spacers. Positon spacer inside wall panel rib and channel or frame.

**3**Fasten door jamb at middle holes using #8-32x7/8" (22 mm) 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)

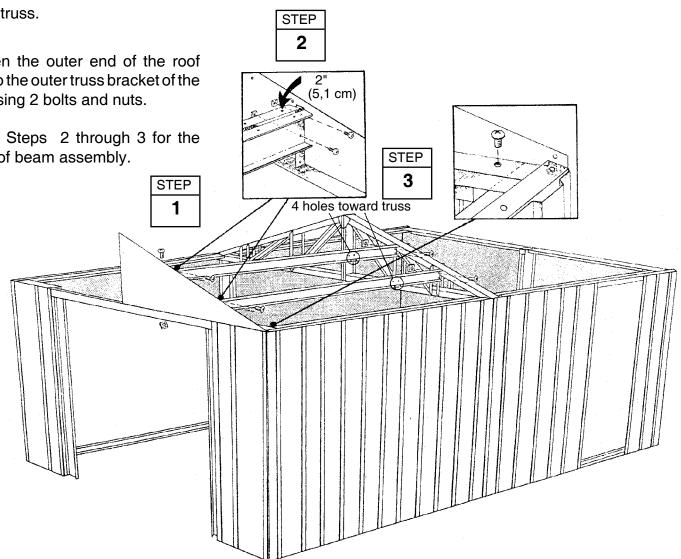
**1**Lift and fasten a right gable assembly at top of lintel using bolts and nuts.

**2**Spread 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.

**3**Fasten the outer end of the roof beam to the outer truss bracket of the truss using 2 bolts and nuts.

Repeat Steps 2 through 3 for the next roof beam assembly.



BX29

Parts Needed For • Roof Beam Assembly (8) Gables/Roof Beams • Right Gable Assembly (1)

• Left Gable Assembly (2)

9462 Roof Beam Assembly (5 14x31: 4,2 m x 9,4 m)

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

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

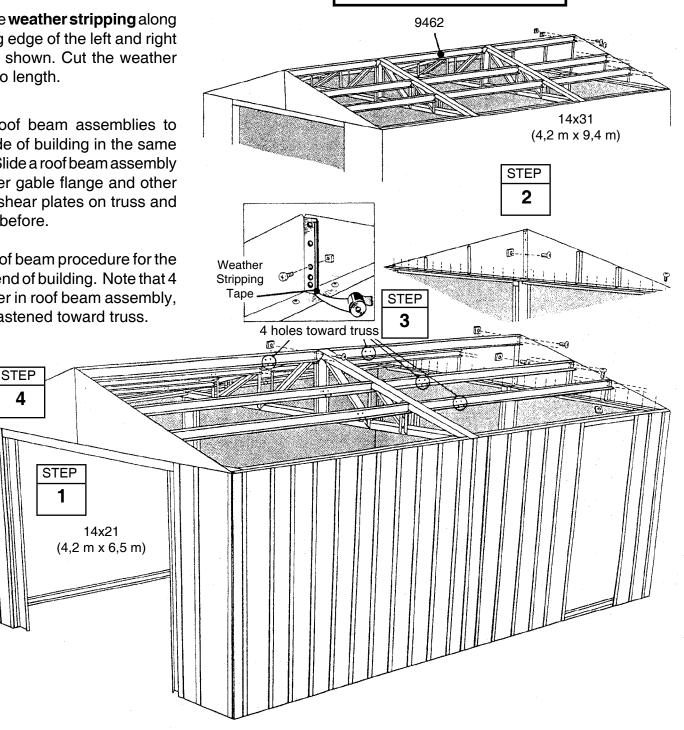
**3**Apply the weather stripping along the mating edge of the left and right gables as shown. Cut the weather stripping to length.

4 Install 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.

#### NOTE

On the 14x31 (4,2 m x 9,4 m), attach the roof beams between the truss assemblies as before



#### Parts Needed For • **Gable-Truss Strut**

• 6954 Gable-Truss Strut (4 14x21: 4,2 m x 6,5 m) (2 14x31: 4,2 m x 9,4 m)

**1** Fasten a gable-truss strut to the

BX30

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.

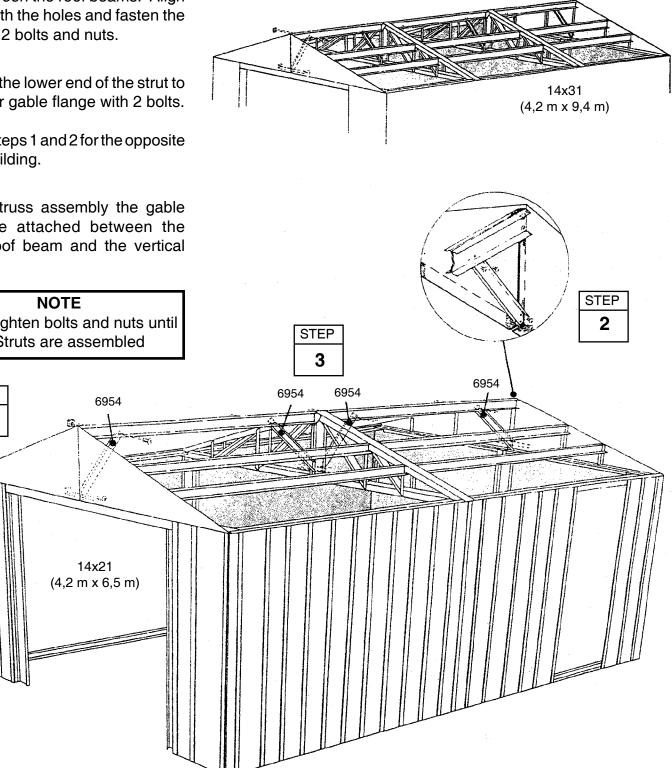
Repeat Steps 1 and 2 for the opposite end of building.

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

Do not tighten bolts and nuts until all Struts are assembled

STEP

1



### **Squaring the Building**

BX31

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

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

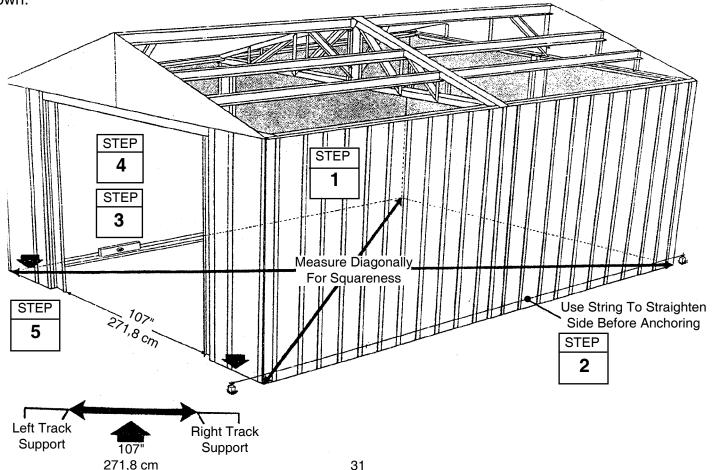
**3**Level the full perimeter of the floor frame. Shim under with wood shingles if necessary.

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

**5**Anchor front frame to concrete with 1/4" (6 mm) diameter expandable anchor bolts or other means, where shown.

#### NOTE

The 107" (271,8 cm) door opening must be held for proper door alignment. Measure between the left and right track support.



# Step 17 Definition Parallel Step 17

# 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' (2,3 m) 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.* 

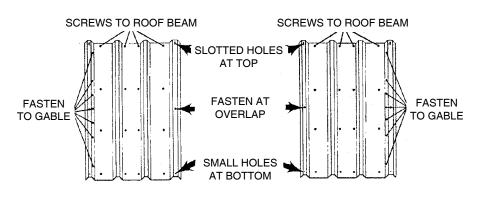
**Hint:** Follow the fastener sequence shown, for proper alignment.

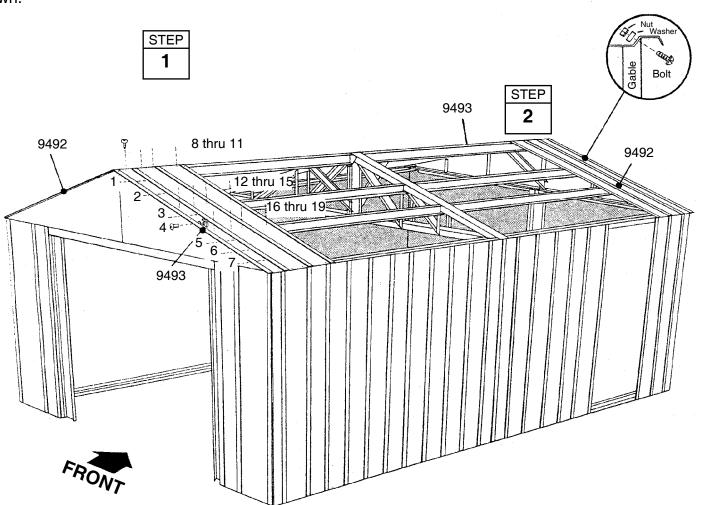
2 Install the right and left roof panels

for the rear corners in the position shown.



#### **RIGHT ROOF PANEL**





#### Parts Needed For • **Roof Panels**

BX33

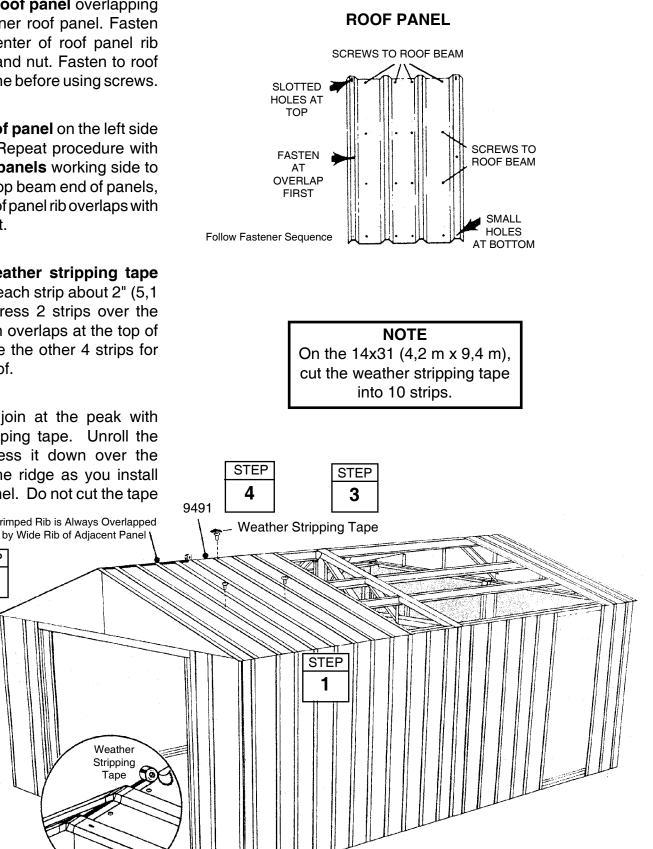
Position a roof panel overlapping rib of left corner roof panel. Fasten overlap at center of roof panel rib using a bolt and nut. Fasten to roof beams as done before using screws.

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.

**3**Cut the weather stripping tape into 6 strips, each strip about 2" (5,1 cm) 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.

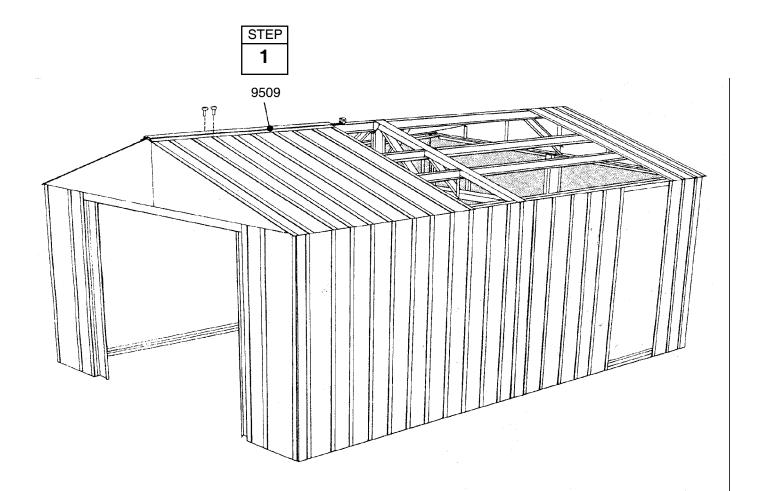
**4**Cover the join at the peak with weather stripping tape. Unroll the tape and press it down over the opening at the ridge as you install each roof panel. Do not cut the tape at this time. Crimped Rib is Always Overlapped

> STEP 2





**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.



BX35

### Parts Needed For ● **Roof Panels & Ridge Cap**

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

1 Install 4 roof panels working side to side.

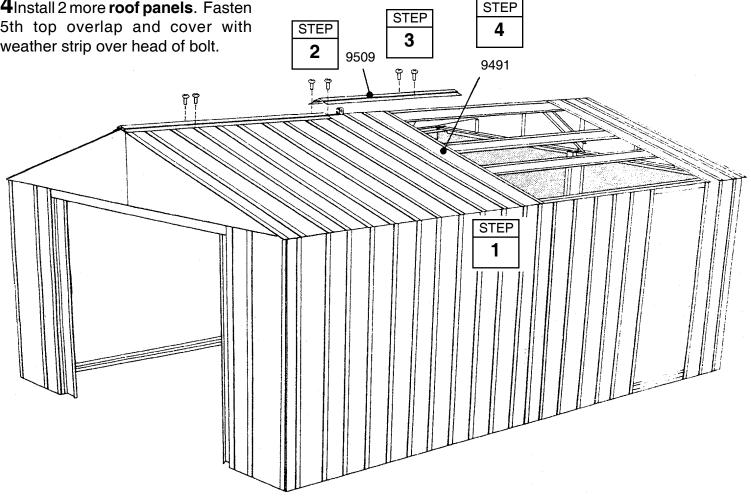
#### NOTE

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.

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

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

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



### ● Parts Needed For ● Roof Panels/Ridge Caps

● 9509 Ridge Cap (1) ● 9512 Ridge Cap (1 1431: 4,2 m x 9,4 m) ● 9491 Roof Panel (4 14x21: 4,2 m x 6,5 m) (12 14x31: 4,2 m x 9,4 m)

BX36

**1** Install 2 more **roof panels**.

**2**Install 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.

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

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

**1** On the 14x31 (4,2 m x 9,4 m) install 2 more **roof panels**.

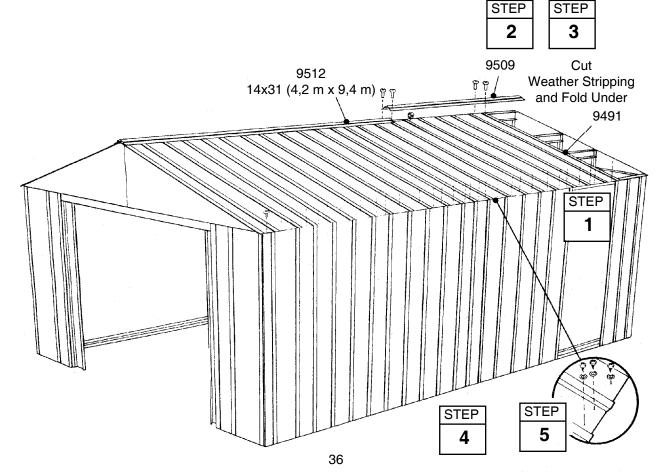
**2**Installthethird**ridgecap**overlapping the second ridge cap as before. Install 6 more **roof panels**, while

fastening 8th and 9th top overlap and cover with weather strip over head of bolt. Fasten ridge cap using bolts and nuts.

**3**Install 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.

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

**5**Fasten 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 14x31: 4,2 m x 9,4 m)

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.

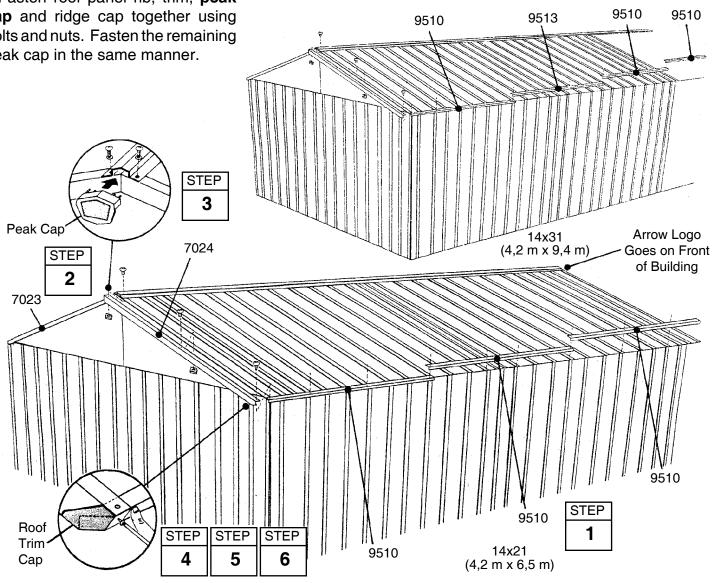
**2**Position left and right roof trim to the ends of roof, noting that trim slips under ridge cap, but fits on top of side roof trim.

**3**Fasten roof panel rib, trim, **peak** cap and ridge cap together using bolts and nuts. Fasten the remaining peak cap in the same manner.

**4**Using 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)

#### 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.

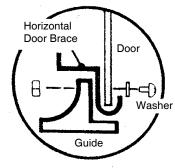
**2**Repeat Step 1 for remaining vertical door brace.

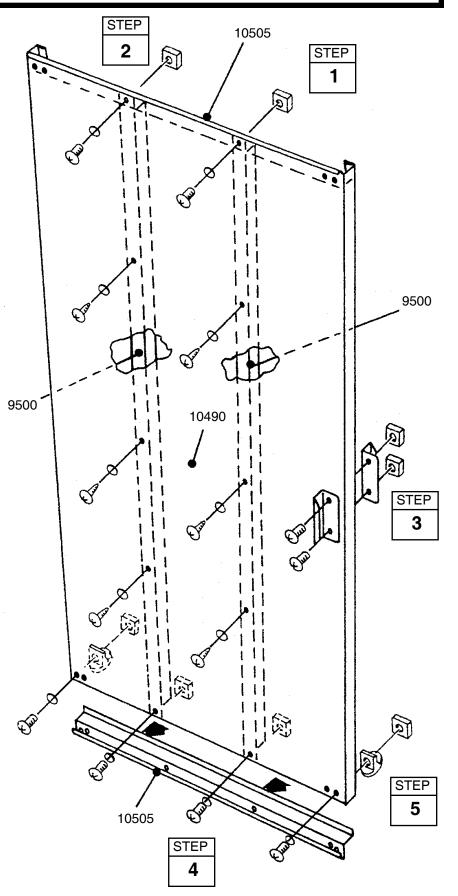
**3**Attach the **handle** to the door with 2 bolts and nuts, as shown.

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

5 Attach the lower door guides as shown.







# Parts Needed For Door Installation

Door Assembly (1) • 7972 Door Handle Lock Bracket (1)

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

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

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

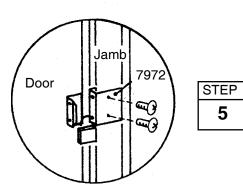
**4**Fasten the door to the door slides using two #10Bx1/2" (13 mm) screws per door slide.

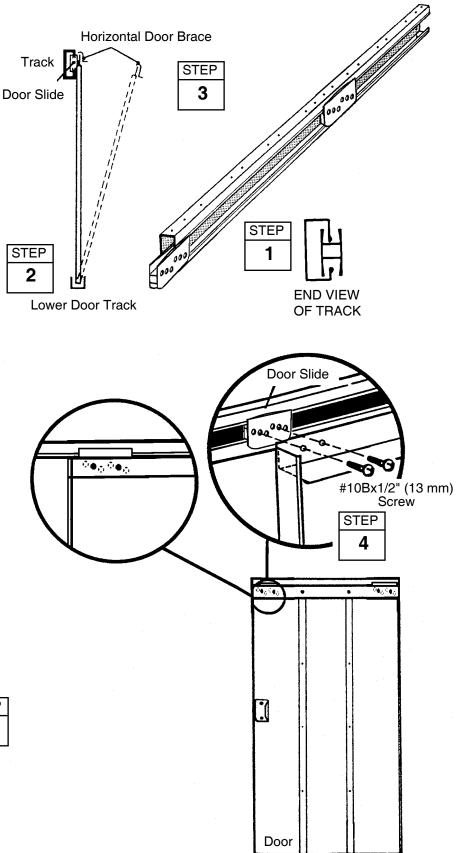
#### NOTE

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

**5**Position **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" (6 mm) diameter holes in jamb. Fasten bracket to door jamb using 2 bolts

and nuts.





# Parts Needed For Vertical Tracks Roll-Up-Door

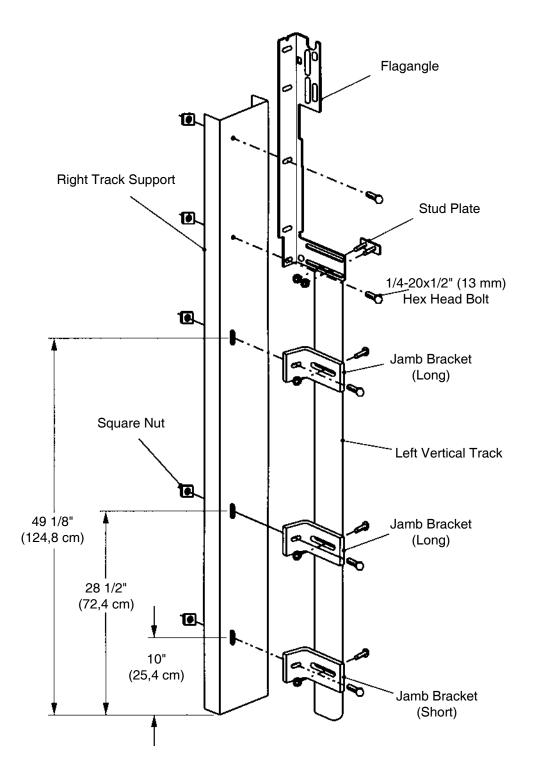
Right Vertical Track
 Left Vertical Track

BX40

**1** Attach **right** and **left vertical tracks** loosely to right and left track supports using 1/4-20x1/2" (13 mm) 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.



BX41

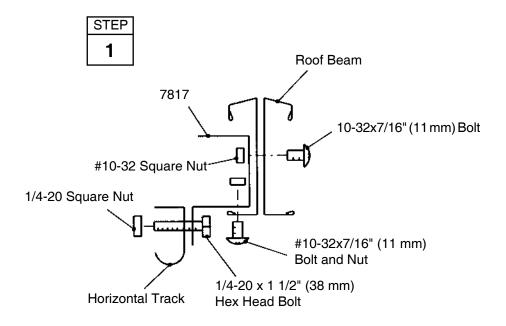
Parts Needed For 
 Roll-Up-Door

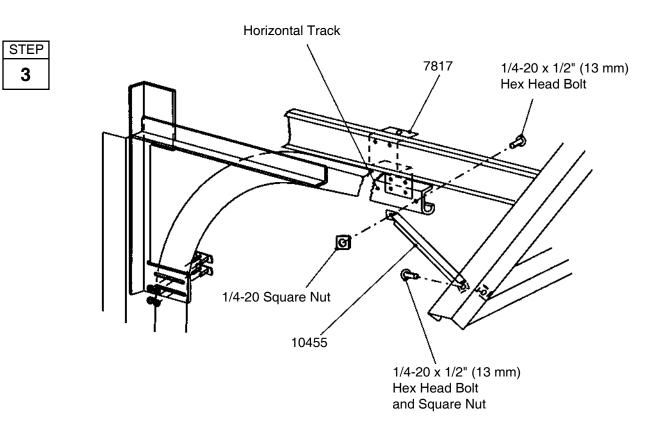
7817 Spring Support Bracket (2)
10455 Track Strut (2)

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

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

**3**Fasten **track struts** to open hole on truss assembly using 1/4-20x1/2" (13 mm) hex head bolt and square nut. Fasten opposite end to spring support bracket and horizontal track using 1/4-20x1/2" (13 mm) hex head bolt and square nut.





41

BX42

cable.

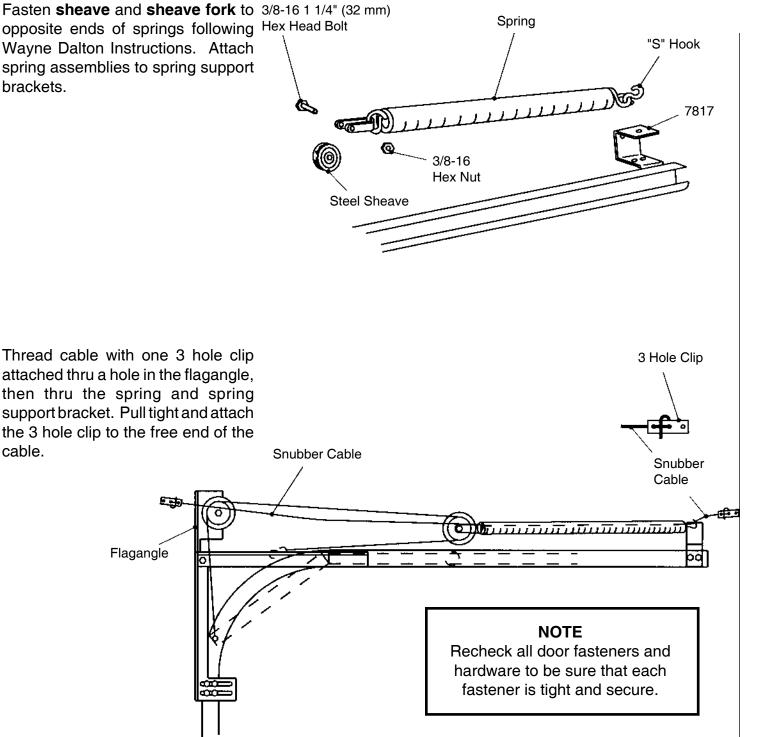
### Parts Needed For • **Roll-Up-Door**

#### 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" (32 mm) 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.



42

# Parts Needed For Right/Left Door Jambs

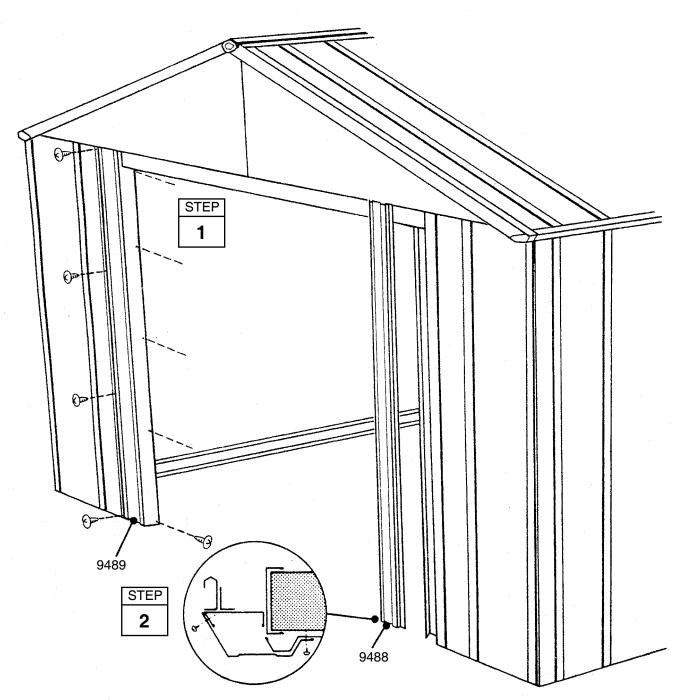
9488 Right Door Jamb (1)
 9489 Left Door Jamb (1)

1 Position right and left door jambs

BX43

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

**2**Fasten 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

#### 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.