Owner's Manual & Safety Instructions

Save This Manual Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the product's serial number in the back of the manual near the assembly diagram (or month and year of purchase if product has no number). Keep this manual and the receipt in a safe and dry place for future reference.

21d



Greenhouse

12' L × 10' W × 10'3" H



93358

Shelving unit and pots not included.

Visit our website at: http://www.harborfreight.com

Email our technical support at: productsupport@harborfreight.com

When unpacking, make sure that the product is intact and undamaged. If any parts are missing or broken, please call 1-888-866-5797 as soon as possible.

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No portion of this manual or any artwork contained herein may be reproduced in any shape or form without the express written consent of Harbor Freight Tools.

Diagrams within this manual may not be drawn proportionally. Due to continuing improvements, actual product may differ slightly from the product described herein.

Tools required for assembly and service may not be included.

AWARNING

Read this material before using this product. Failure to do so can result in serious injury. SAVE THIS MANUAL.

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WARNING SYMBOLS AND DEFINITIONS			
A	This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.		
▲ DANGER	Indicates a hazardous situation which, if not avoided, will result in death or serious injury.		
AWARNING	Indicates a hazardous situation which, if not avoided, could result in death or serious injury.		
ACAUTION	Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.		
NOTICE CAUTION	Addresses practices not related to personal injury.		

IMPORTANT SAFETY INFORMATION

The warnings, precautions, and instructions discussed in this manual cannot cover all possible conditions and situations that may occur. The operator must understand that common sense and caution are factors, which cannot be built into this product, but must be supplied by the operator.

Assembly / Installation Precautions

- 1. Assemble only according to these instructions. Improper assembly can create hazards.
- 2. Wear ANSI-approved safety goggles and heavy-duty work gloves during assembly.
- This unit contains pieces with sharp edges.
 The machined edges of the aluminum parts and the ends of the panel clips may be sharp. Handle all parts carefully.
- 4. Keep assembly area clean and well lit.

- 5. Keep bystanders out of the area during assembly.
- 6. Do not assemble when tired or when under the influence of alcohol, drugs or medication.
- Product capabilities apply to properly and completely assembled product only.
- 8. Locate the Greenhouse on a flat, level, surface. A concrete foundation is recommended for a high-quality installation.

Use / Service Precautions

- This product is not a toy. Do not allow children to play in or climb on this product. Although this greenhouse does include some caps, there are still some exposed sharp edges. In addition, protective covers may fall off in time. Children must be supervised if allowed near the greenhouse.
- 2. SNOW/DEBRIS ACCUMULATION HAZARD. The heavy weight of accumulated snow or other debris can cause parts of this greenhouse to buckle suddenly. Do not allow debris to accumulate on top of the greenhouse. If snowfall is expected, place additional supports (not provided) underneath the Crown. NEVER enter a greenhouse with accumulated debris on top.

- 3. Use as intended only.
- 4. Inspect periodically; replace damaged parts immediately and do not enter greenhouse if parts are loose or damaged.
- 5. For your safety, service and maintenance should be performed regularly by a qualified technician.



SAVE THESE INSTRUCTIONS.



Specifications

Overall Dimensions	120 ¹ / ₂ " W x 144 ¹ / ₂ " L x 123" H
Window Dimensions	23 ¹ / ₄ " W x 31 ¹ / ₄ " L
Door Dimensions	75 ¹ / ₂ " H x 35 ¹ / ₂ " W x 1 ¹ / ₄ " Thick
Materials	Aluminum Frame Transparent Polycarbonate Sheets
Aluminum Thickness	0.038"
Polycarbonate Sheet Thickness	0.165"



Assembly



Read the <u>ENTIRE</u> IMPORTANT SAFETY INFORMATION section at the beginning of this document including all text under subheadings therein before set up or use of this product.

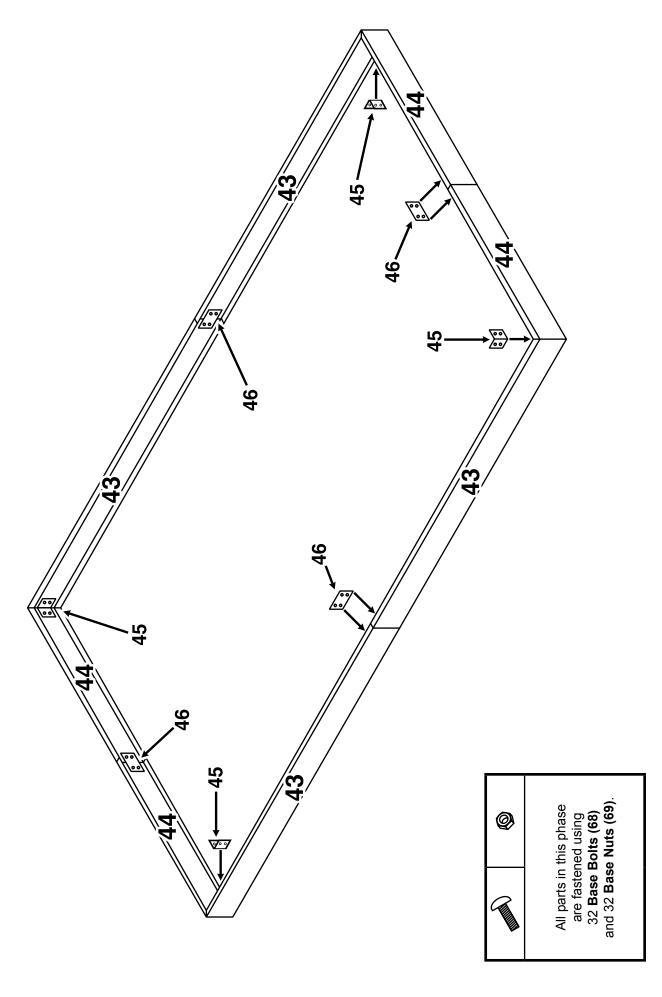
IMPORTANT-READ THE FOLLOWING CAREFULLY BEFORE PROCEEDING

- The first step in assembly is to assemble a proper base. The greenhouse must be properly supported to help prevent property damage and injury in the event of strong winds or inclement weather. Wind and ground conditions may vary from site to site, and may affect the practicality and effectiveness of anchoring methods substantially. If you have any doubt regarding the stability of the base/foundation you are to use, consult a professional.
- It is always your responsibility to ensure that the greenhouse is properly anchored.
 Harbor Freight Tools cannot be held responsible for personal injury, damage to the greenhouse, or other property damage that occurs as a result of improperly anchoring the greenhouse.
- Be certain to check with local authorities to obtain all required building permits and to familiarize yourself with any building codes that may apply.
- Decide on a location for the greenhouse. The location should optimally be a level, well-lit area that is sheltered from the wind. The door of the greenhouse should not open towards the prevailing wind, if possible.

IMPORTANT ASSEMBLY TIPS

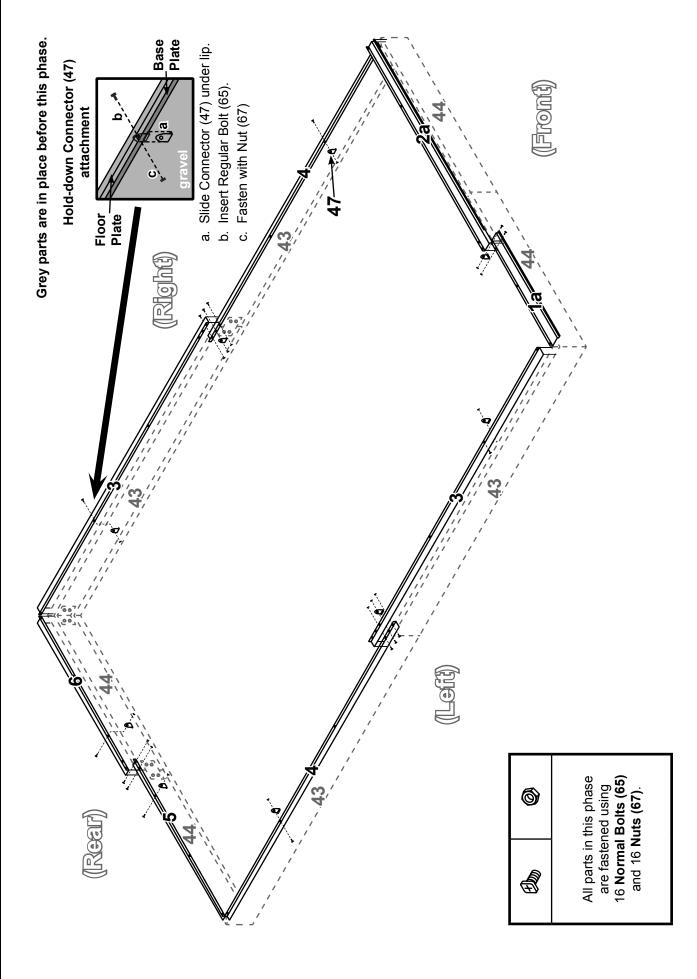
- Assemble Bolts with their heads facing the outside of the greenhouse, unless stated otherwise. Tighten Nuts (67) only about 1/4 turn past finger-tight; be careful not to overtighten.
- · Lay out all parts by number prior to assembly.
- At least two assistants will be necessary during assembly.
- Assemble on a clear, calm day. Wind will damage the Greenhouse and make assembly difficult.



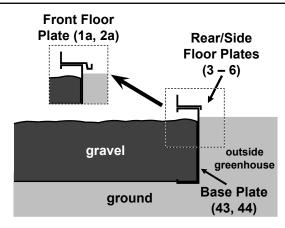


Base Assembly Instructions

- Excavate an area for the base of the greenhouse. The area must be 10' 2" wide by 12' 2" long by 5" deep. The floor of the hole must be level and square. The diagonal dimensions, from corner to corner, should each be 15' 5".
- Assemble the Base outside the hole as shown below. Note that the angled edges of the Base Plates (43, 44) need to face the corners of the base. Use Base Bolts (68), Base Nuts (69), and Connectors (45, 46) to secure the pieces together.
- With assistance, lower the Base into the hole.
 The diagonal dimensions,
 from outside corner to outside corner,
 must be equal for the base to be square.
- 4. Fill the hole around the outside of the base with soil.
- 5. This base will need to be filled with about 40 cubic feet of gravel or another appropriate fill material (not provided). The gravel should reach up to about 1" below the lip of the base.



Floor Plate Installation Instructions



Cross Section

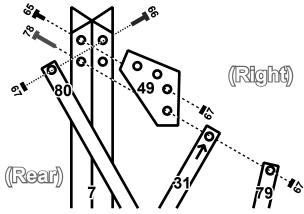
1. When placing the Floor Plates (1a-6) on top of

the Base Plates (43, 44), align them as illustrated above. The lip should extend slightly over the edge of the Base Plate and the raised flange with bolt holes should face inside the greenhouse.

- Place the Front-Left Floor Plate (1a)
 on top of the Base Plate (44). Lay the
 Front-Right Floor Plate (2a) on top of it and line
 up the 2 holes where the Plates overlap.
- 3. Fasten the Front Floor Plates (1a, 2a) together, and secure to the Base Plate (44) using a Hold-down Connector (47) over one of the Bolts (65), see inset on facing page.
- 4. Place the Side Floor Plates (4) on the Side Base Plates (43) on the front-right and rear left corners as illustrated. Lay the Upper Side Floor Plates (3) on top so that the three holes line up where the Plates overlap.
- Fasten the Side Floor Plates (3, 4) together, and secure to the Base Plates (43) using 3 Hold-down Connectors (47) on each side of the greenhouse in the places illustrated; see illustration and inset on facing page.
- 6. Lay the Rear-right Floor Plate (6) on top of the Rear-left Floor Plate (5) so that the 2 holes line up where the Plates overlap. Fasten the Rear Floor Plates (5, 6) together through those holes.
- 7. Place the assembled Rear Floor Plates (5, 6) on top of the Base Plates (44).
- 8. Secure the Rear Floor Plates (5, 6) to the Base Plates (44) using2 Hold-down Connectors (47) in the locations shown; see illustration and inset on facing page.

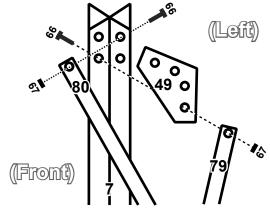
Corner Post Installation Instructions

- There are 4 Corner Posts (7) to be attached to the Floor Plates (1–6). The end with 2 holes should be at the bottom, as shown in the illustration in the center of this page.
- 2. Attach one Corner Post (7) on the <u>outside</u> of the right rear Floor Plates (3, 6) using 2 Normal Bolts (65), 2 Hold-down Connectors (47), and 2 Nuts (67), see inset facing page.



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- Fasten a Corner Bracket (49) to the top of the Corner Post (7) over the Rear Floor Plate (6) using one Normal Bolt (65) for now. Install it angled up towards the center of the greenhouse, as shown above.
- 4. Install a Double Brace Bolt (78) through the bottom hole of the Corner Bracket (78). Place a Rear Brace (31) over it with the arrow pointing towards the Bolt. Also place Front/Rear Diagonal Strut (79) over the Bolt, and thread on Nut (67) hand-tight.
- 5. Fasten a Side Diagonal Strut (80) to the free top hole on the Corner Post (7) using Brace Bolt (66) and Nut (67).
- 6. Fasten Struts (79, 80) to Floor Plates using Brace Bolts (66), Hold-down Connectors (47), and Nuts (67), see inset on facing page. Allow Rear Braces (31) to hang free.
- 7. Repeat steps 2 through 6 for the <u>left</u> rear Corner Post (7) on the left side. Keep in mind that the connections will be reversed compared to the right side.
 - 8. Attach one Corner Post (7) on the <u>outside</u> of the front left Floor Plates (1a, 3) using 2 Normal Bolts (65), 2 Hold-down Connectors (47), and 2 Nuts (67).



TOP

0

olo

0

0

Corner Post (7)

0

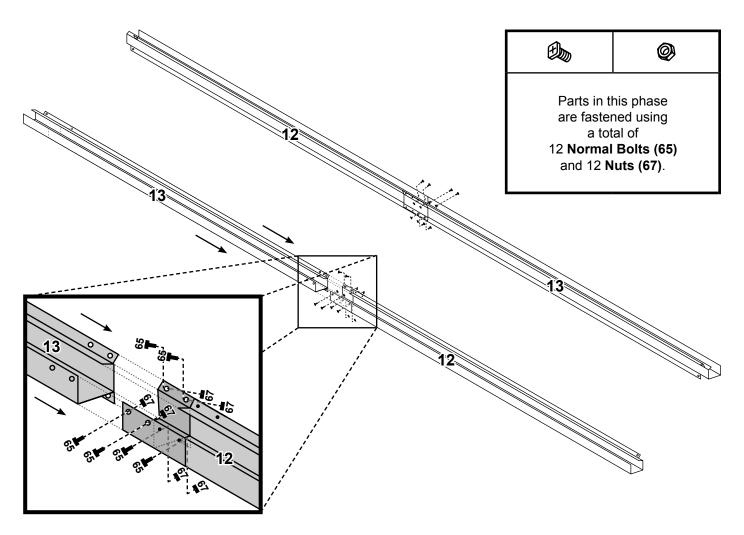
0

BOTTOM

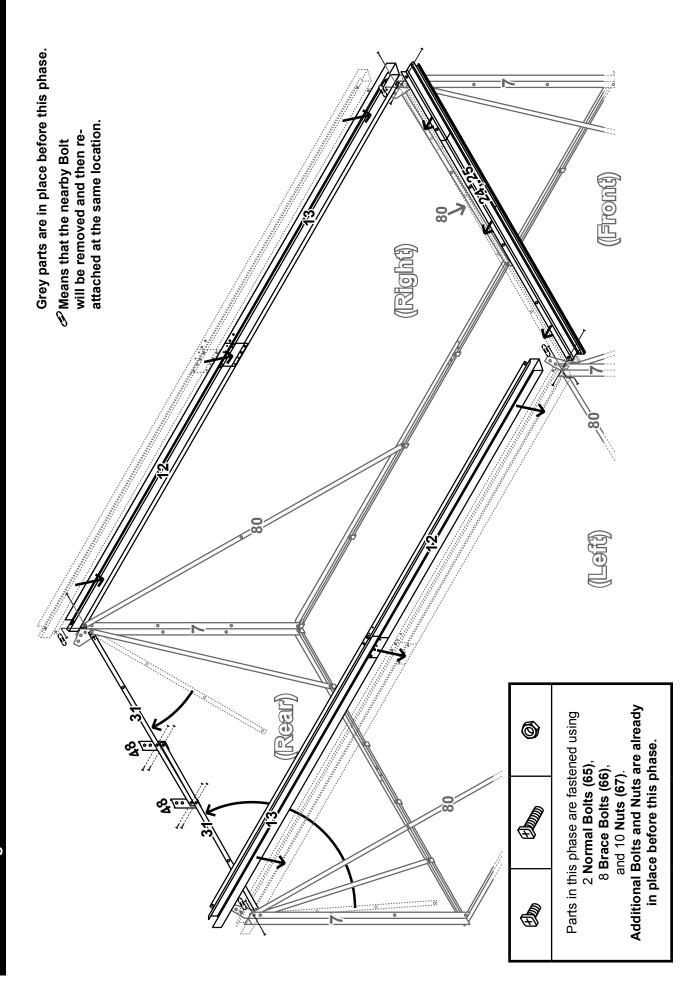
((View from Inside greenhouse.))

- 9. Insert a Brace Bolt (66) through the second hole from the top of the Corner Post (7) over the Front Floor Plate (1a). Place the bottom hole of the Corner Bracket (49) over the Bolt with it angled up towards the center of the greenhouse, as shown above. Secure it using a Nut (67).
- 10. Fasten a Side Diagonal Strut (80) to the top hole on the Corner Post (7) over the Side Floor Plate using a Brace Bolt (66) and Nut (67).
- 11. Secure the Struts (79, 80) to the Floor Plates using Brace Bolts (66), Hold-down Connectors (47), and Nuts (67), see inset on facing page.
- 12. Repeat steps 8 through 11 for the <u>right</u> front Corner Post (7) on the right side. Keep in mind that the connections will be reversed compared to the left side.

Phase 4b: Ceiling Plate Assembly, Side

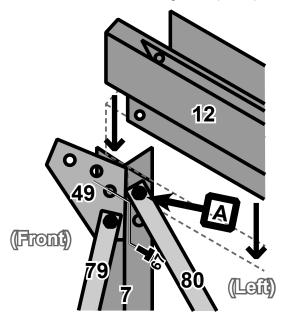


- 1. Insert a Plain Side Ceiling Plate (13) in the brackets on the end of a Side Ceiling Plate with Brackets (12).
- 2. Secure in place with 6 Normal Bolts (65) and 6 Nuts (67). The heads of the Bolts should all face the gutter side of the Ceiling Plates, as shown in the inset above.
- 3. Repeat the two previous steps for the remaining Plain Side Ceiling Plate (13) and Side Ceiling Plate with Brackets (12).
- 4. Attach an End Cap (72) to the top outer corner of each Corner Post (7) at this point.



Ceiling Plate Installation Instructions

 Insert one Normal Bolt (65) through the Corner Bracket (49) and the upper hole in the Corner Post (7) at both front corners of the greenhouse, from the inside out, as shown above. This is for the later attachment of the Front Ceiling Plate (24-27).

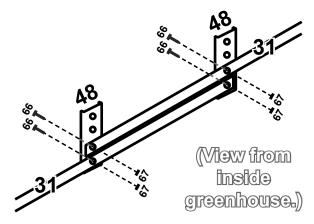


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- 2. To attach one end of a Side Ceiling Plate (12, 13):
 - a. Remove the Nut (67) where the Side Diagonal Strut (80) connects to the Corner Post (7) in one corner, marked A in the illustration above.
 - b. Temporarily disconnect that Side Diagonal Strut (80) from the Brace Bolt (66), but leave the Bolt in place.
 - c. Orient the gutter opening up as shown above.
 - d. Place the Side Ceiling Plate (12, 13) then the Side Diagonal Strut (80) on the end of the Bolt, and secure with a Nut (65).
- Secure the other end of that Side Ceiling Plate (12, 13) similarly.

- 4. Attach the Front Ceiling Plate (24, 25) to the 2 Normal Bolts (65) put in place in step 1 on the outside of the greenhouse, note orientation at right.
 - 5)

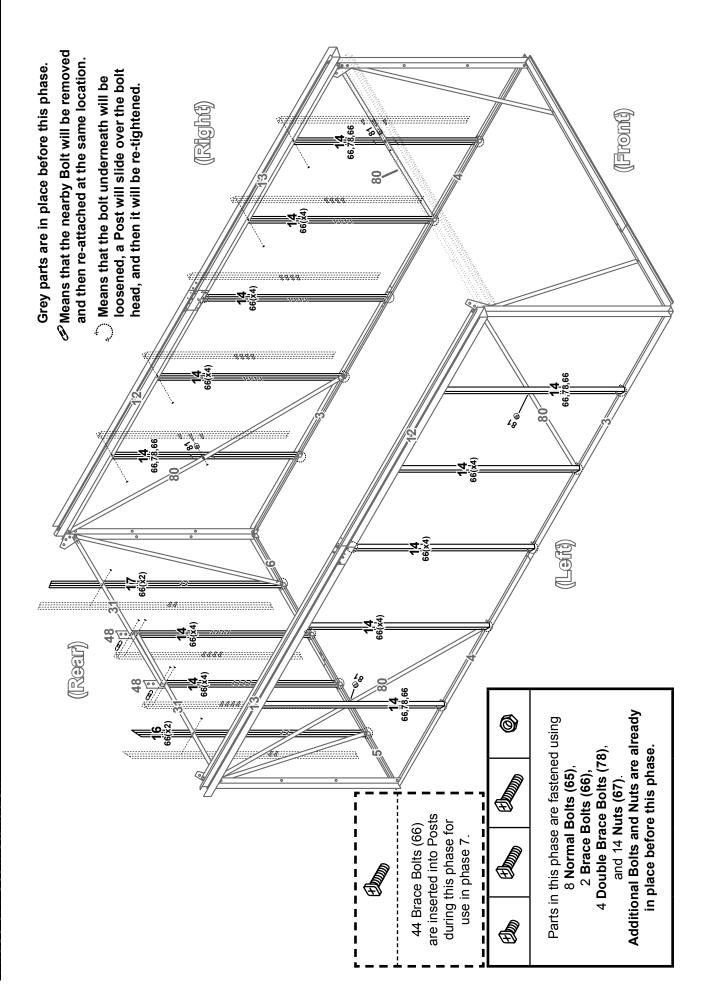
 Attach the remaining Side Ceiling Plate (12, 13) along the other side according to steps 2 & 3, with the gutter opening up.



- 6. Bolt 2 Post Connectors (48) to a Rear Brace (31) using Brace Bolts (66) through their bottom holes, from the outside in. Place Post Connectors on the outside of the greenhouse with the flat side against the Brace, as shown above. Only finger tighten for now.
- 7. Swing the Rear Braces (31) together and bolt the second Brace to the second from bottom holes on the Post Connectors (48), using Brace Bolts (66) from the outside in. Only finger tighten for now.

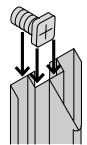
Note: The Rear Braces (31) will be under tension.

8. If you cannot attach the second Post Connector (48), or if they are not parallel:
Make sure that the arrows on both of the Rear Braces (31) are pointing towards the Corner Posts (7).

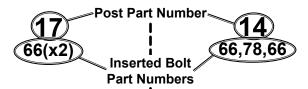


Post Installation Instructions

Note: All Posts (14, 16, 17) in this phase require extra Bolts to be inserted into their slot before assembly. The small numbers under the main part number on the facing page are the type and number of hardware.



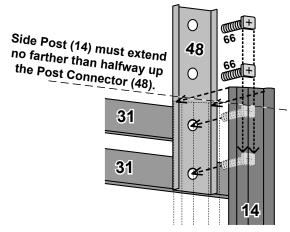
See the examples below:



Meaning: Insert 2 Brace Bolts (66) into the Rear Right Post (17) before attaching it.

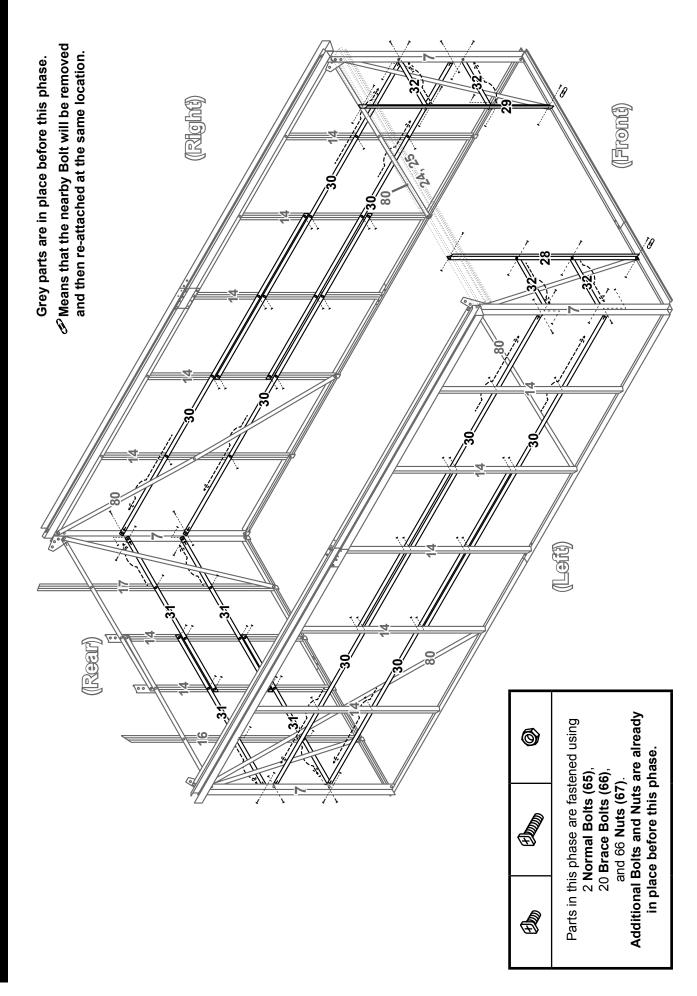
Meaning: Insert a Brace
Bolt (66), then a Double
Brace Bolt (78), then
another Brace Bolt (66)
into this Side Post (14)
before attaching it.

- Loosen a Bolt on one of the Side Floor Plates (3,4) in an attachment location as shown. Slide the slot in a Side Post (14) over the head of that Bolt.
- Insert the required Bolts (See note above and illustration on facing page) into the slot in the Side Post.
- 3. Attach the top of the Side Post (14) to the Ceiling Plate (12, 13), using a Normal Bolt (65) in the slot or using the Bolt already in place for the center Post.
- 4. Repeat above steps for all 10 Side Posts (14) on the left and right sides of the greenhouse.
- Slide a white Bushing (81) over all 4 inserted Double Brace Bolts (78). Place the center hole of each Side Diagonal Strut (80) over the end of each Double Brace Bolt and secure with a Nut (67).
- 6. Loosen a Bolt on the Rear Floor Plate (5, 6) in a location that a Side Post (14) attaches, and slide a Side Post over the head of that Bolt. Insert 4 Brace Bolts (66) into the slot of that Post.

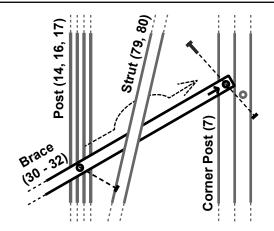


(View from outside greenhouse.))

- 7. Remove the 2 Brace Bolts (66) connecting the Post Connector (48) near that Side Post. Slide the heads of those Bolts into the Side Post and insert them through the Post Connector. Align the top of the Post with the **center** of the Connector as shown above, and press it in place. Reattach the Rear Braces (31) to the Brace Bolts (66) and secure them.
- 8. Repeat steps 6 & 7 for another Side Post (14) and Post Connector (48).
- Loosen the Bolts (66) where the Rear Diagonal Struts (79) connect to the Rear Floor Plate (5, 6). Slide the slot in the Rear-Left Post (16) over the head of the <u>left</u> Bolt and the Rear-Right Post (17) over the <u>right</u> Bolt.
- 10. The slanted ends of the Posts must be on top and slant towards the center of the greenhouse. Retighten the Bolts.
- 11. Slide 2 Brace Bolts (66) into the slot of each Rear Post (16, 17).
- 12. Slide one more Brace Bolt (66) into the top of each Rear Post. Attach the Rear Posts to the Rear Braces (31) using those Bolts.
- 13. The frame should now rest square. Measure diagonally from corner to corner at the top. If the measurements are not equal, adjust the frame as needed until square. Some Nuts (67) may need to be loosened to adjust the frame. Tighten all Nuts after adjustment.



Brace Installation Instructions



Note: All Braces are installed inside the Posts,

to (right)
Corner
Post (7)

(Doorway)

(Inside greenhouse)

(VIEW From above)

1. Using a Normal Bolt (65) at top and the Brace

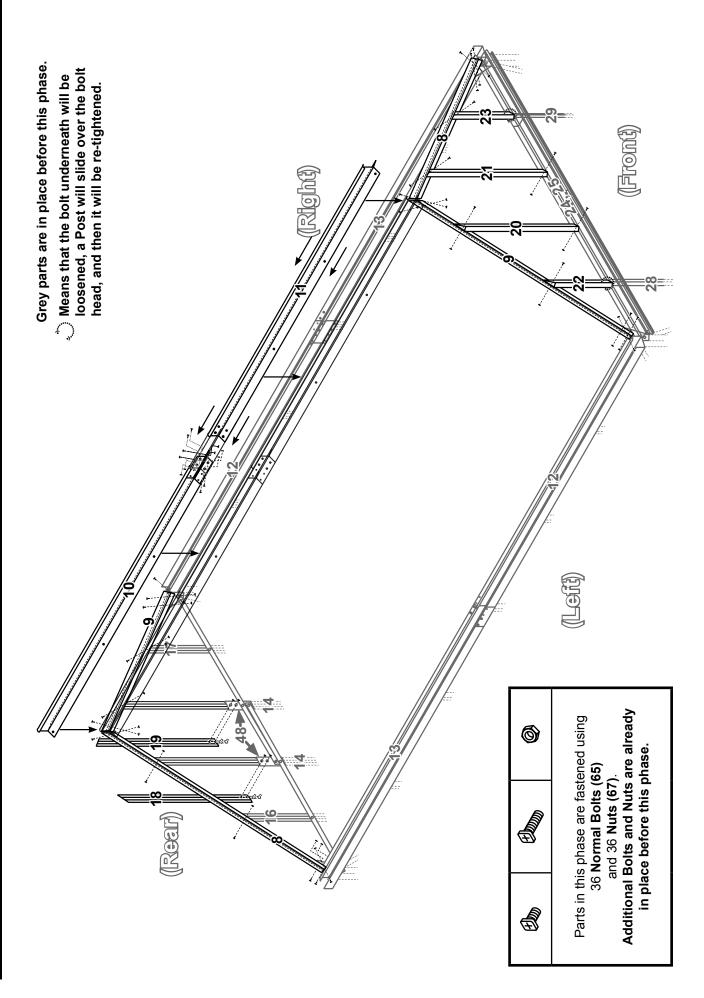
but outside the Struts. See diagram above, shown from inside the greenhouse facing out.

Bolt (66) already in place at the bottom for each, attach the Left and Right Doorway Posts (28, 29) to the <u>outside</u> of the Front Floor Plates (1a, 2a) and to the <u>inside</u> of the Front Ceiling Plates (24, 25). Install the Posts with the cut-outs at <u>top</u> and oriented as shown in the illustration above.

 Using Brace Bolts (66), connect the Front Braces (32) between the Corner Posts (7) and the Doorway Posts (28, 29). Install Braces inside Posts but outside Struts, as shown in the diagram at the top of this page.

Note: Install the Braces on the walls so that they are level. If the frame is level and all Braces are level, the Braces should not interfere with one another.

- 3. Connect the 4 remaining Rear Braces (31) onto the rear wall as shown on the facing page, with the arrows pointing towards the Corner Posts (7). Secure in place using Brace Bolts (66) at the Corner Post and the inserted Brace Bolts in the remaining holes. Install Braces inside Posts but outside Struts, as shown in the diagram at the top of this page.
- 4. Connect 4 Side Braces (30) onto each side wall as shown on the facing page, with the arrows pointing towards the Corner Posts (7). Secure in place using Brace Bolts (66) at the Corner Post and the inserted Brace Bolts in the remaining holes. Install Braces inside Posts but outside Struts, as shown in the diagram at the top of this page.
- 5. Place the Gutter End Caps (73) onto the ends of the Side Ceiling Plates (12, 13) oriented with a gap in the bottom to allow water to drain out of the gutters.



Gable and Crown Installation Instructions

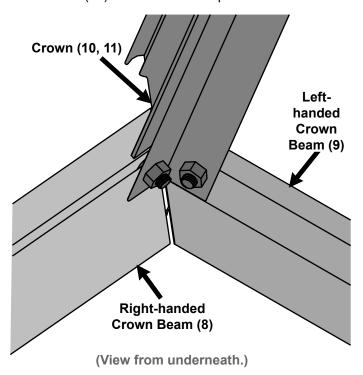
Note: Leave Bolts (65) finger tight until step 5 of this phase.

- Use 1 Normal Bolt (65) each to attach the Front Gable Posts (20-23) to the <u>outside</u> top of the Front Ceiling Plates (24, 25) in the positions shown on facing page. The bottoms of the 2 outer Front Gable Posts (22, 23) will be secured using the Normal Bolts (65) already in place. The sloped ends of the Posts must be on the top and slant upward toward the center of the greenhouse.
- Insert 2 Normal Bolts (65) into the slot in each Rear Gable Post (18, 19), and use those Bolts to attach them to the top 2 holes of the Post Connectors (48) on the <u>outside</u>.
 Once again, the sloped ends of the Posts must be on the top and slant upward toward the center of the greenhouse. The bottoms of those Rear Gable Posts (18, 19) must be pressed down flat against the tops of the Side Posts (14).

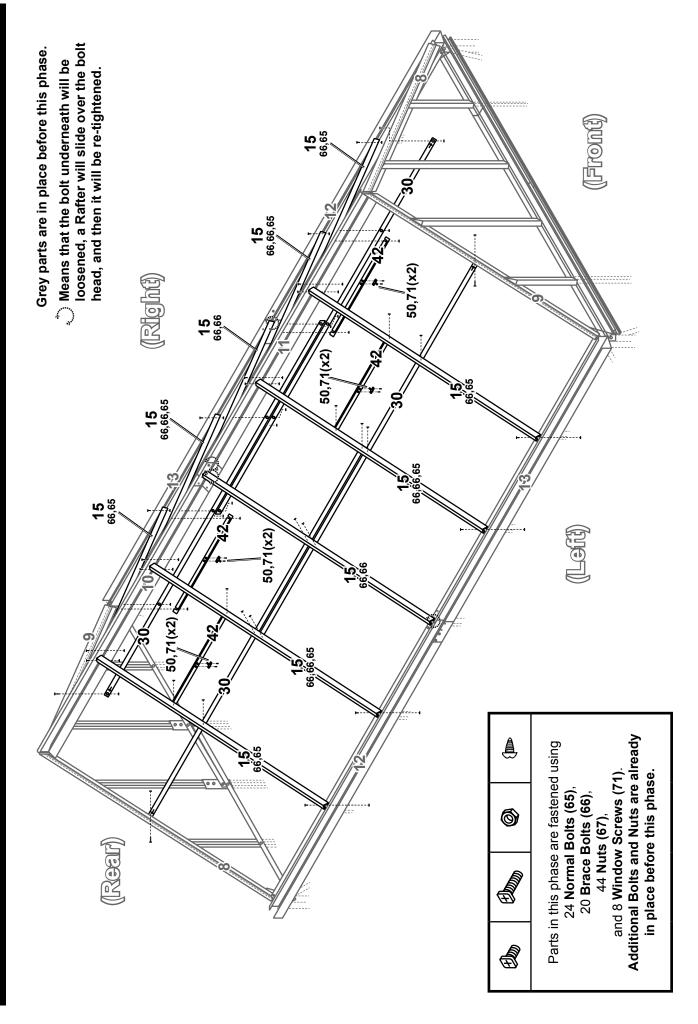
Note: The only difference between Right- and Left-Handed Crown Beams is the location of the holes. The Beam edges with 3 drilled holes should align with the Side Ceiling Plate (12, 13) and the edges with 4 holes should point down.

- 3. Attach the Right- and Left-Handed Crown Beams (8, 9) to the Greenhouse using 5 Normal Bolts (65) for each Beam. The angled edges should meet at the top of the roof. The Beams are placed on the **outside** of the Ceiling Plates (12, 13) and the Corner Brackets (49) and on the **inside** of the Posts (16-23).
- 4. Assemble the Front Crown (11) to the brackets on the Rear Crown (10) using 6 Normal Bolts (65).

5. Press the Crown Beams (8, 9) down against the tops of the Posts (16-23) while tightening all Bolts (65) to secure them in place.

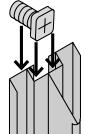


- 6. With assistance, raise the completed Crown (10, 11) up underneath the tops of the Crown Beams (8, 9), and bolt it in place on each end to the bottom of the Beams using 2 Normal Bolts (65) as shown above.
- 7. Attach an End Cap (72) to the top outer corner of each Crown Beam (8, 9).



Rafter and Brace Installation Instructions

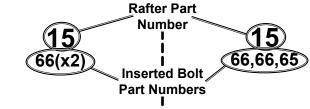
Note: All Rafters (15) require extra Bolts to be inserted into their slot before assembly. The small numbers under the main part number on the facing page are the type and number of hardware in the order they are inserted from the TOP of the Rafter. See the examples below:





(View from underneath.)

6. Using 2 Window Screws (71) each, attach a

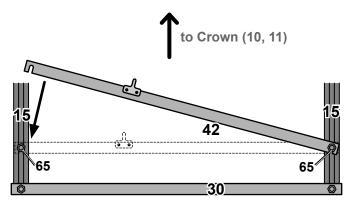


Meaning: Insert 2 Brace
Bolts (66) into the top of
this Rafter (15) before
attaching it to the frame.

Meaning: Insert 2 Brace Bolts (66), then a Normal Bolt (65) into the top of this Rafter (15) before attaching it to the frame.

- Insert the required Bolts (See note above and illustration on facing page) into the slot in one of the Rafters (15).
- 2. Attach the Rafter (15) to the Ceiling Plate (12, 13) and the Crown (10, 11), using Normal Bolts (65) in the slot or using the Bolts (65) already in place for the center Rafters.
- 3. Make sure the Rafter (15) is completely seated over the Normal Bolts (65) on each end before tightening.
- 4. Repeat above steps for all 10 Rafters (15).
- 5. Connect 4 Side Braces (30) onto the underside of the roof as shown on the facing page, with the arrows pointing towards the Crown Beams (8, 9). Secure in place using Brace Bolts (66) at the Crown Beam and the inserted Brace Bolts (66) in the remaining holes. Finger tighten first and install the Braces so that they are touching, side-by-side as shown.

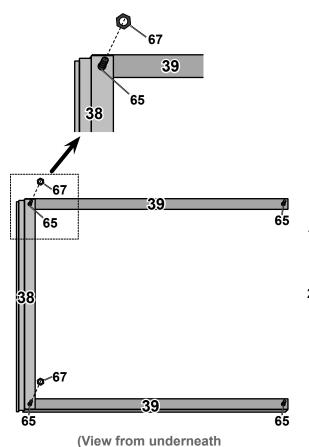
Window Stop (50) on the flat side of each Window Support Beam (42) with its tab pointing away from the bolt slot openings, as shown above.

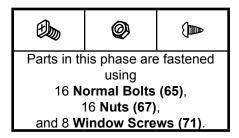


(View from underneath.)

7. Place one of the bolt slots on a Window Support Beam (42) over one of the inserted Normal Bolts (65) and swing it over the inserted Normal Bolt (65) on the other Rafter (15) as shown in the diagram above. Note that the Window Stop (50) and flat side of the Window Support Beam (42) are both facing the inside of the greenhouse. Thread Nuts (67) onto the Normal Bolts (65) and finger tighten them for now.

Phase 10: Window Assembly and Installation



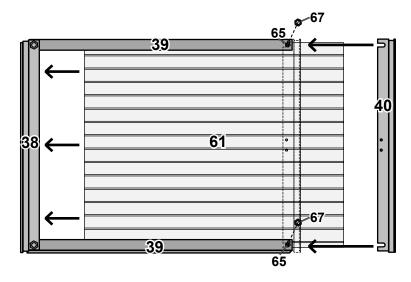


- 1. Attach the Side Window Frames (39) to the Top Window Frame (38), as shown to the left. The threaded shafts of the Bolts should extend out the bottom of the window.
- 2. Insert Normal Bolts (65) into the holes at other end of the Side Window Frames (39), so that the threads stick out the bottom of the window.

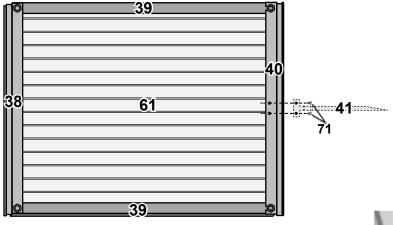
3. Remove the protective film from both sides of the Window Pane (61). Slide the Window Pane (61) into the three-sided frame.

window, flat side of pieces.)

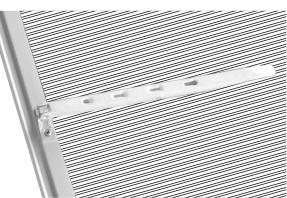
Slide the Bottom Window Frame (40) onto the 2 Normal Bolts (65) and the Window Pane (61). Secure it in place with Nuts (67). Press on the heads of the Bolts through the Window Pane to allow the Nuts to thread on properly.

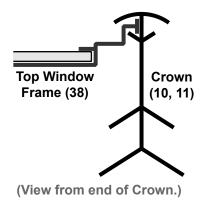


(View from underneath window, flat side of pieces.)

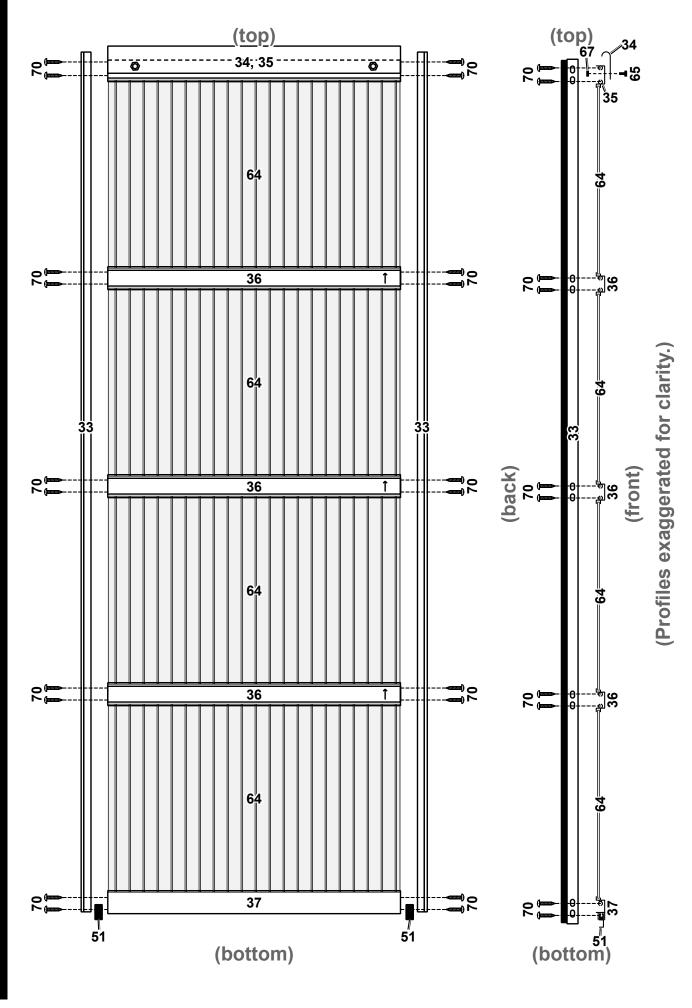


 Attach the Window Brace (41) to the Bottom Window Frame (40) using 2 Window Screws (71). The holes on the Window Brace (41) should face <u>away</u> from the window, as shown below.

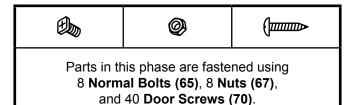




- 6. Hold the assembled window level with the ground at the outer edge of the Crown (10, 11). Slide the top edge of the Top Window Frame (38) into the slot at the top of the Crown (10, 11), see illustration to the left. Align the window with the Window Brace (41) <u>underneath</u> it. Slide the window into place over the Window Support Beam (42). Gradually lower it into place.
- 7. Loosen the Nuts (67) holding the Window Support Beam (42) in place and slide the Window Support Beam (42) up to touch the window. Secure it in place.
- 8. Repeat the steps in this phase for all four windows.



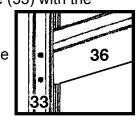
Door Assembly and Installation Instructions



Note: The Door Screws (70) thread directly into the round portions in the center of the door frames.

Leave all Screws slightly loose until the door is mounted on the rail.

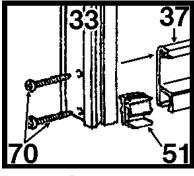
1. Place the Side Door Frame (33) with the rubber flap down. Attach three Center Door Frames (36) to the Side Door Frame (33). Assemble them with the rounded portion facing the front (away from the flap), as shown to the right.



2. Using 2 Normal Bolts (65) and 2 Nuts (67), attach the Door Slider (34) to the Top Door Frame (35) oriented as shown to the right.



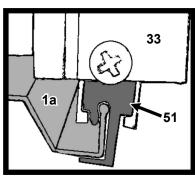
3. Attach the Top Door Frame (35) to the Side Door Frames (33) with the Door Slider (34) at top and the rounded portion facing the front.



(view from behind)

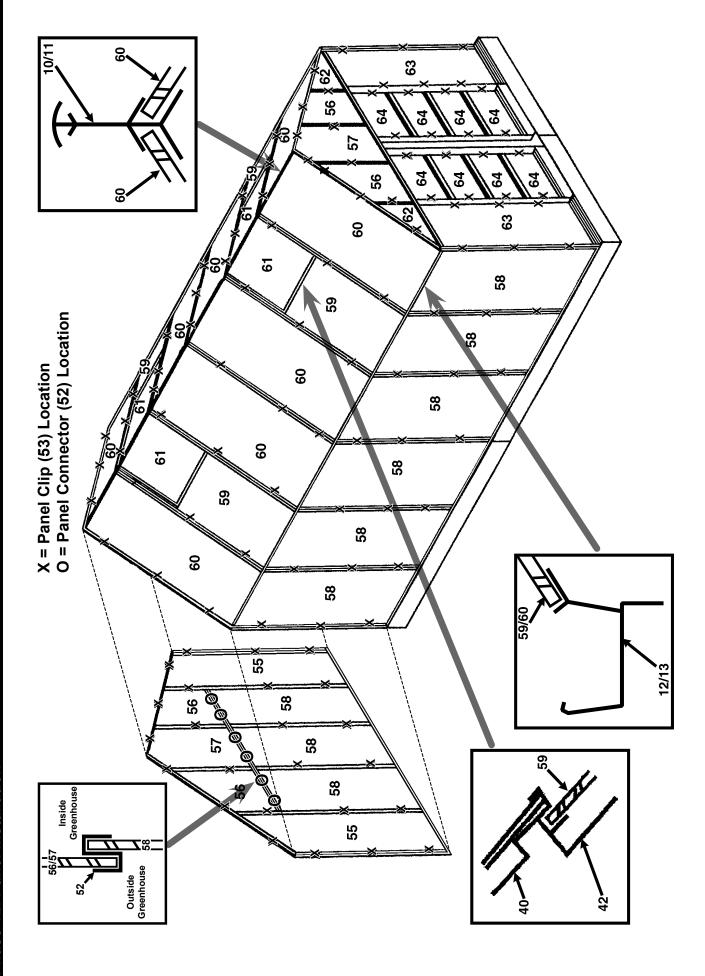
4. Insert a Door Bottom Slider (51) into each end of the Bottom Door Frame (37). Make sure that the Sliders are assembled the correct way, with the gap facing the back of the door see diagram. Attach the Bottom Door Frame (37) to the Side Door Frames (33) using 2 Screws (70) on each side – the one on the top into the Bottom Door Frame (37) and the bottom one into the Door Bottom Slider (51).

- 5. Remove the protective film from both sides of four Door Panels (64). Slide the Door Panels into the door between the Door Frame (35-37) pieces.
- 6. Attach the other Side Door Frame (33) to the Center Door Frames (36) in the same way.



(side view)

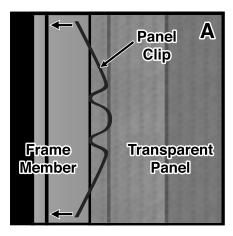
- 7. Raise the assembled Door up and insert the first roller of its Door Slider (34) onto the Door Rail (26, 27). Carefully align the first Bottom Door Slider (51) over the edge of the Front Floor Plate (1a, 2a) - see illustration above. Carefully slide the door over and align the other top Roller and bottom Slider as you did the first ones.
- 8. Assemble and install the second door by following the previous steps.
- 9. Once both doors are installed, tighten all Door Screws (70).
- 10. Install a Normal Bolt (65) and Nut (67) into the hole on the end of each Door Rail (26, 27), and in the hole on the end of each Front Floor Plate (1a, 2a) to prevent the doors from sliding off the rails. Attach the Left and Right Rail End Caps (74,75) onto the ends of the Door Rails.

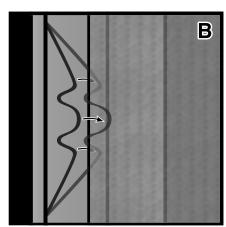


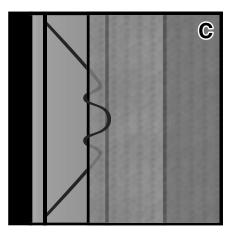
Transparent Panel Installation Instructions

Note: Remove the protective film from both sides of each panel before installing it.

- 1. Panel Clips (53) are used to secure the Transparent Panels in place on the Greenhouse, their locations are marked with X on the facing page.
- 2. The Roof Panels (60) and the Roof Window Panel (59) will need to be placed as shown in the insets on the facing page. The top edges of these panels need to be placed up under the edge of the Crown (10, 11) or the Window Support Beam (42).
- 3. The Panel Connectors (52) are used to connect the Rear Top and Center Panels (56, 57) to the top of the Wall Panels (58) in the rear of the Greenhouse. Refer to the locations marked with O and the inset on the facing page.
- 4. One at a time, place each Transparent Panel (55 64) in its proper location on the Ceiling and Frame of the Greenhouse. Then, secure the Transparent Panel in place, using the quantity and location of Panel Clips (53).
- 5. To attach Panel Clips, see illustration and instructions below:
 - A) Place the two loose ends of the Clip into the groove in the frame
 - B) Swing the center portion of the Clip up against the Panel
 - **C)** Two edges of the Clip swing under the edge of the panel and the center edge holds the panel in place.







Be careful, Panel Clip (53) ends may be sharp and may spring back!

Use and Maintenance

- BEFORE EACH USE, inspect the general condition of the Greenhouse. Check for loose screws, misalignment or binding of moving parts, cracked or broken parts, and any other condition that may affect the safe operation of the Greenhouse. If a problem occurs with the Greenhouse, have it corrected before further use.
 Do not use damaged equipment.
- TO CLEAN: Wipe with a damp cloth, using a mild detergent.
 Do not use cleaners that are combustible, corrosive, or not compatible with aluminum.
- 3. **WHEN STORING**: Keep the Greenhouse in a box and in a clean, dry location.

PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS LISTS IN THIS DOCUMENT AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER OR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT, OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS, AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

Parts Lists

Lengths given are rounded to the nearest inch. Hardware lengths are approximate.

PART DESCRIPTION Q'TY				
PARI	DESCR	IPTION		QII
1a	Front-Left Floor Plate	2' 8"		1
2a	Front-Right Floor Plate	7' 3″		1
3	Upper Side Floor Plate	6'		2
4	Side Floor Plate	6'		2
5	Rear-Left Floor Plate	4' 11"		1
6	Rear-Right Floor Plate	4' 11"		1
7	Corner Post	6' 6 "		4
8	Right-handed Crown Beam	5' 10"		2
9	Left-handed Crown Beam	5' 10"		2
10	Rear Crown with Brackets	5' 9"		1
11	Front Crown	5' 10"		1
12	Side Ceiling Plate with Brackets	5' 9"		2
13	Plain Side Ceiling Plate	5' 10"		2
14	Side Post	6' 6"		12
15	Rafter	5' 9"		10
16	Rear-Left Post	7' 9"		1
17	Rear-Right Post	7' 9"		1
18	Rear-Left Gable Post	2' 7"		1

PART	DESCRIPTION			Q'TY
19	Rear-Right Gable Post	2' 7"		1
20	Front Center-Left Gable Post	2' 8"		1
21	Front Center-Right Gable Post	2' 8"		1
22	Front-Left Gable Post	1' 5"		1
23	Front-Right Gable Post	1' 5"		1
24	Front-Left Ceiling Plate	7' 5"		1
25	Front-Right Ceiling Plate	2' 3"		1
26	Left Door Rail	4' 10"		1
27	Right Door Rail	4' 10"		1
28	Left Doorway Post	6' 6 "		1
29	Right Doorway Post	6' 6"		1
30	Side Brace	7' 9"		12
31	Rear Brace	5' 10"	6	6
32	Front Brace	2'		4
33	Side Door Frame	6' 3"		4
34	Door Slider	2' 10"		2
35	Top Door Frame	2' 10"		2
36	Center Door Frame	2' 10"		6

Lengths given are rounded to the nearest inch. Hardware lengths are approximate.

PART	DESCR	RIPTION		Q'TY
37	Bottom Door Frame	2' 10"	11	2
38	Top Window Frame	1' 11"		4
39	Side Window Frame	2' 5"		8
40	Bottom Window Frame	1' 11"		4
41	Window Brace	10"		4
42	Window Support Beam	2'	4/	4
43	Side Base Plate	5' 11 "	4//	4
44	Front/Rear Base Plate	4' 11"	4//	4
45	Base Plate Corner Connector			4
46	Base Plate End Connector			4
47	Hold-down Connector			25
48	Post Connector		0000	2
49	Corner Bracket			4
50	Window Stop			4
51	Door Bottom Slider			4
52	Panel Connector		را	6
53	Panel Clip		_~/	260
54	Peak Cap			2
55	Rear Side Panel	1' 11" x 7' 9"		2
56	Front/Rear Top Panel	1' 11" x 2' 7"		4
57	Front/Rear Center Panel	1' 11" x 3' 3"	<u>-</u>	2
58	Wall Panel	1' 11" x 6' 5"		15
59	Roof Window Panel	1' 11" x 3' 4"		4

PART	DESCRIPTION			Q'TY
60	Roof Panel	1' 11" x 5' 9"		8
61	Window Pane	1' 11" x 2' 6"	=	4
62	Front Corner Panel	1' 11" x 1' 4"	11	2
63	Front Side Panel	2' x 6' 5"		2
64	Door Panel	1' 5" x 2' 10"	1 ',	8
65	Normal Bolt	M6 x ³ / ₈ "	D	141
66	Brace Bolt	M6 x ³ / ₄ "	£ Do	108
67	Nut	M6	@	255
68	Base Bolt	¹ / ₄ " x ³ / ₈ "	THE REAL PROPERTY.	32
69	Base Nut	1/4"	©	32
70	Door Screw	4.3 x 3/ ₄ "	{ 	40
71	Window Screw	4.0 x ⁵ / ₈ "	(A	16
72	End Cap			8
73	Gutter End Cap		\Box	4
74	Left Rail End Cap			1
75	Right Rail End Cap		Ū	1
76	Spanner Wrench			1
77	Hex Wrench			1
78	Double Brace Bolt M6		EDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	6
79	Front/Rear Diagonal Strut 6'			4
80	Side Diagonal 7' 7"		6	4
81	Bushing	Ø.5" x .4"	0	4

Limited 90 Day Warranty

Harbor Freight Tools Co. makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 90 days from the date of purchase. This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, criminal activity, improper installation, normal wear and tear, or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

Record Serial	Number	Here:	

Note: If product has no serial number, record month and year of purchase instead.

<u>Note:</u> Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts. Specify UPC 792363933582 when ordering parts.

