WARNING: CHOKING HAZARD
Unassembled parts may be a choking hazard to children 3 years and younger

CAUTION: Adult Assembly Required.
Hardware contains small pieces with sharp points. Keep parts out of the reach of children until assembled. Parts of this product can present dangers if improperly assembled.

CAUTION: The plastic bags that contain the hardware may present a choking hazard to small children. Please keep these bags and all plastic bags out of the reach of children. Do not allow children to play with them and dispose of them immediately when empty.
Basic Setup Dimensions

Place the set on level ground, not less than 6' [1829mm] from any structure or obstruction such as a fence, garage, house, overhanging branches, laundry lines or electrical wires.

20'3" [6172mm]

8'3" [2515mm]

11'10" [3607mm]

23'10" [7264mm]
**Important Assembly Notes**

1) Sort all lumber, metal, and accessories by ID letter prior to assembly. This will make assembly easier and faster.

2) Pay close attention to make sure you are using the correct hardware in the correct places. Using incorrect hardware may result in improper assembly.

3) Read the steps of each phase thoroughly. The written steps may include important information not shown in the illustrations.

4) While assembling unit, take time before and after each phase to make sure Fort is level. If fort is not level, assembly will be difficult and improper assembly may result. Extra care must be taken to assure the fort is square on the phases that include this symbol in Fig i.

5) When installing a board on the small face of a 2x4 or on a 4x4, pre-drilling the attachment hole is REQUIRED. Just place the board where attachment is needed and by using the holes in the board as a guide, drill holes into the 2x4 with a 1/8" drill bit 1 1/4" deep. Failure to Pre-drill may result in board splitting.

6) Whenever a T-nut is used, follow these directions. Place t-nut in pre-drilled hole. Tap in with hammer. Place bolt with washers in the opposite side. Hand tighten to make sure the bolt is in the t-nut. Secure with socket. **DO NOT** over-tighten.

![Image showing a T-nut installation process]

- Be sure and not over tighten hex bolts. Bolts should not protrude more than 2 threads on opposite side.
- It is highly recommended that you have at least one adult helper assisting you during installation.

---

**Tools Required**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>(Level 24”)</strong></td>
<td><strong>Open end Wrenches 1/2” &amp; 9/16”</strong></td>
</tr>
<tr>
<td><strong>(Tape Measure)</strong></td>
<td><strong>(Nut drivers 1/2” &amp; 9/16”)</strong></td>
</tr>
<tr>
<td><strong>(3/8” Ratchet, 1/2” &amp; 9/16” STD sockets)</strong></td>
<td><strong>(Claw Hammer)</strong></td>
</tr>
<tr>
<td><strong>(3/8” Cordless Drill or Electric drill)</strong></td>
<td><strong>(3/16”, 5/16” &amp; 3/8” drill bits)</strong></td>
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<tr>
<td><strong>(Rubber Mallet - Optional)</strong></td>
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**Note:** It is vital that the fort be level before and after each phase!
## Parts Identification
### Wood Components

<table>
<thead>
<tr>
<th>ID</th>
<th>DESCRIPTION</th>
<th>QTY</th>
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<tbody>
<tr>
<td>A</td>
<td>4L986-11 - 4x4x106 1/2 [102x102x2705mm] Fort Upright</td>
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<tr>
<td>B</td>
<td>4L3064-11 - 5/4x6x051 1/4 [32x152x1302mm] Wall Rail</td>
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<tr>
<td>C</td>
<td>4L1979-07 - 5/4x4x051 1/4 [32x102x1302mm] Floor Support</td>
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<tr>
<td>D</td>
<td>4L971-08 - 5/4x6x090 [32x152x2286mm] Ground Beam</td>
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<td>E</td>
<td>4L2148-07 - 5/4x6x051 1/4 [32x152x1302mm] Center Arched Wall Rail</td>
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<td>G</td>
<td>4L3059-11 - 5/4x6x055 11/16 [32x152x1414mm] Sandbox Board</td>
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<td>H</td>
<td>4L3062-11 - 5/4x6x055 11/16 [32x152x1414mm] Center Arched Wall Rail</td>
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<td>I</td>
<td>4L2154-07 - 4x6x051 1/4 [102x152x1302mm] Cross Brace</td>
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<td>J</td>
<td>4L3061-11 - 5/4x4x052 [32x102x1321mm] Floor Joist</td>
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<td>K</td>
<td>4L3060-11 - 5/4x6x050 [32x152x1270mm] End Floor Board</td>
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<td>L</td>
<td>2A1322-11 - 5/4x4x060 [32x102x1524mm] Floor Panel Assembly (5 board)</td>
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<td>M</td>
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<td>O</td>
<td>4L3058-11 - 5/4x4x016 [32x102x406mm] Wall Rail</td>
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<td>P</td>
<td>4L2153-07 - 5/4x4x013 1/4 [32x102x337mm] Wall Rail</td>
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<td>R</td>
<td>4L741-05 - 2x6x062 [51x152x1575mm] Ladder Rail (Right)</td>
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<td>S</td>
<td>4L1379-09 - 2x6x018 [51x152x457mm] Ladder Rung</td>
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<td>T</td>
<td>4L1424-05 - 1x4x027 1/4 [25x102x692mm] Wall Slat</td>
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<td>U</td>
<td>4L3065-11 - 2x4x042 [51x102x1067mm] Roof Truss</td>
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*These parts are found in the single beam hardware box.

**NOTE:** All widths and heights shown are nominal sizes, not actual sizes. Lengths are shown in actual size.
**Parts Identification**  Wood/Hardware Components

<table>
<thead>
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<tbody>
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<td>2A1252-09</td>
<td>60 1/2&quot; [1537mm] Roof Panel Assembly (4 Board)</td>
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<td>2A1253-09</td>
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<td>X</td>
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<td>Y</td>
<td>4L2046-07 - 2x2x005 1/2 [51x51x140mm] Roof Wedge (Rip to 7/8x1 3/4&quot; [22x45mm])</td>
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<td>4L983-08 - 1x4x009 3/4 [25x102x248mm] Gable Board</td>
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<td>AG</td>
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<tr>
<td>AJ</td>
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<td>AL</td>
<td>4L970-08 - 5/4x6x024 [32x152x610mm] Gusset</td>
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<td>AN</td>
<td>4M032 - L-bracket (Green)</td>
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<td>AO</td>
<td>4M1006 - Fort Plate (5 hole)</td>
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<tr>
<td>AP</td>
<td>6P101 - Plastic Window Frame (medium)</td>
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## Parts Identification

<table>
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<th>DESCRIPTION</th>
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<tr>
<td>AQ</td>
<td>4M1028-10 - Grab Handle (Green)</td>
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<td>6PCR5 - Assorted Climbing Rocks (bag of 5)</td>
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<td>AS</td>
<td>6PCR6 - Assorted Climbing Rocks (bag of 6)</td>
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<td>AT</td>
<td>4M1005-08 - 4' Handrall (Green)</td>
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<td>AU</td>
<td>6BP08 - BYA Placard</td>
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<td>AV</td>
<td>6M012 - 16&quot; [406mm] Rebar Stakes (bag of 6)</td>
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<td>4L3056-11 - 5/4x6x094 1/2 [32x152x2400mm] Fort Ground Beams</td>
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<td>BA</td>
<td>4L3063-11 - 5/4x4x055 11/16 [32x102x1414mm] Floor Support</td>
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<td>BB</td>
<td>4L3091-11 - 5/4x4x033 1/2 [32x102x851mm] Floor Joist</td>
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<tr>
<td>*BF</td>
<td>4M1114-10 - Cross Brace Clamp</td>
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</tbody>
</table>

*These parts are found in the single beam hardware box.

NOTE: All widths and heights shown are nominal sizes, not actual sizes. Lengths are shown in actual size.
Parts Identification

5/16" x 6 3/4" [8mmx171mm] Hex Bolts
5/16" x 6" [8mmx152mm] Hex Bolts
5/16" x 4 1/2" [8mmx114mm] Hex Bolts
5/16" x 4 1/4" [8mmx108mm] Hex Bolts
5/16" x 2" [8mmx51mm] Hex Bolts
5/16" x 1 1/2" [8mmx38mm] Hex Bolts
5/16" x 1 1/4" [8mmx32mm] Hex Bolts

#12 x 1" [25mm] Tapping Screw
#14 x 1" [25mm] Tapping Screw
#14 x 2" [51mm] Tapping Screw
#14 x 2 1/2" [64mm] Tapping Screw

Measuring hardware

It is very important that you get the right hardware in the correct place when assembling the unit.

NOTES:
1) Do not include bolt head when measuring length of bolt.
2) Include full length of deck screw when measuring.

NOTE: Lengths of bolts and screws may vary slightly.
Parts Identification

5/16" x 4 1/2" [8mmx114mm] Lag Screws
6HLS41/2

5/16" x 3" [8mmx76mm] Lag Screws
6HLS3

5/16" x 1 1/2" [8mmx38mm] Lag Screws
6HLS11/2

5/16" x 2" [8mmx51mm] Carriage Bolts
6HCB2

1/4" x 1" [6mmx25mm] Machine Truss Screw
6H065

1/4" [6mm] Split Washers
6H17

1/4" [6mm] T-Nuts
6H020

5/16" [8mm] Acorn Nuts
6HAN

5/16" [8mm] Lock Nuts
6HLNS16

5/16" [8mm] Flat Washers
6HFW5/16

5/16" [8mm] Flat Washers
6HFW1/4

5/16" [8mm] Split Washers
6H5W

5/16" [8mm] T-Nuts
6HTN

#8 x 3/4" [19mm] Deck Screws
6HS3/4

#8 x 1" [25mm] Deck Screws
6HS1

#8 x 1 1/4" [32mm] Deck Screws
6HS11/4

#8 x 1 1/2" [38mm] Deck Screws
6HS11/2

#8 x 1 3/4" [44mm] Deck Screws
6HS13/4

#8 x 2 1/4" [57mm] Deck Screws
6HS21/4

Measuring hardware

It is very important that you get the right hardware in the correct place when assembling the unit.

NOTES:
1) Do not include bolt head when measuring length of bolt.
2) Include full length of deck screw when measuring.

NOTE: Lengths of bolts and screws may vary slightly.
Phase 1  Frame Assembly

Step 1: Gather items A(4), B(2), C(2), D(2), E(2) and hardware bag.

Step 2: **Assembly 1:** Fasten wall rail B and floor support C to uprights A using hardware shown in Fig. 1.
Attach arched wall rail E to uprights A using hardware shown in Fig. 2. Attach ground beam D to bottom of uprights A using (4) 2 1/2” tapping screws and (4) 1/4” flat washers (Fig. 3). Make sure ground beam D is facing direction shown below.

Step 3: **Assembly 2:** Assemble the same as Assembly 1 except ground beam D will face opposite direction. Refer to figures below.

---

**Fig. 1**

- (2) 5/16” flat washers per B
- (2) 6” hex bolts per B
- (2) 2 1/2” tapping screws per B
- (2) 5/16” flat washers per B
- (2) 5/16” lock nuts per B

**Fig. 2**

- (1) 4 1/4” hex bolts per E
- (1) 5/16” split washers per E
- (1) 5/16” flat washers per E
- (2) 5/16” t-nuts per E

**Assembly 2**

- (2) 2 1/2” tapping screws per E
- (2) 1/4” flat washers per E

---

**Fig. 3**

- (4) 2 1/2” tapping screws per D
- (4) 1/4” flat washers per D

---

Be sure and make note of the direction. Assemblies 1 and 2 are facing when attaching ground beams D.
Phase 2  Frame Assembly

Step 1: Gather assemblies 1 & 2 and items G(4), AX(2) and hardware bag.

Step 2: Attach (1) sandbox board G to bottoms of uprights A using (4) 2 1/2" tapping screws and (4) 1/4" flat washers (Fig. 4).

Step 3: Attach ground beams AX to bottoms of uprights A using (4) 4 1/2" lag screws and (4) 5/16" flat washers (Fig. 5). Make sure ground beams are attached as shown below.

Step 4: Attach (2) sandbox boards G to uprights A flush with tops of wall rails B using (4) 2 1/2" tapping screws and (4) 1/4" flat washers each (Fig. 6).

Step 5: Attach (1) sandbox board G to uprights A flush with top of wall rail E using (4) 2 1/2" tapping screws and (4) 1/4" flat washers (Fig. 7).

Fig. 4

![Diagram of Frame Assembly](attachment:image1)

It is vital that the distance between assemblies 1 & 2 is 50 3/8" [1280mm].

Fig. 5

![Diagram of Frame Assembly](attachment:image2)

Fig. 6

![Diagram of Frame Assembly](attachment:image3)

Fig. 7

![Diagram of Frame Assembly](attachment:image4)

Items Used in this Phase
Assemblies 1 & 2 from Phase 1
(4) 'G' - 5/4x6x055 11/16 Sandbox Boards
(2) 'AX' - 5/4x6x094 1/2 Fort Ground Beams
Phase 3  Floor Brace Attachment

Step 1: Gather items J(1), AN(2) and hardware bag.
Step 2: Center and attach floor joist J flush with the tops of sandbox boards G using L-brackets AN and (4) 1” tapping screws (Fig. 8).
Step 3: Secure floor joist J using (1) 2 1/4” deck screw through sandbox boards G into each end of floor joist (Fig. 9).
Phase 4 Floor Assembly

Step 1: Gather items K(2), L(2), M(1) and hardware bag.
Step 2: Place end floor boards K and panel assemblies L & M on top of floor joist J in pattern shown.
Step 3: Make sure the boards and panels are centered on the fort, with equal overhang on all sides and attach to floor joist J using 2 1/4" deck screws as shown below.
Step 4: Secure floor joist J to every floor board with 2 1/4" deck screws.

Items Used in this Phase
(2) ‘K’ - 5/4x6x050 End Floor Board
(2) ‘L’ - 5/4x4x060 Floor Panel Assembly (5 board)
(1) ‘M’ - 5/4x4x060 Floor Panel Assembly (3 board)

(35) 2 1/4" deck screws
Phase 5  Wall Rail
Attachment

Step 1: Gather items N(2), P(4), BA(2) and hardware bag.

Step 2: Place wall rails P and floor supports BA on floor and against uprights A as shown below. Attach using (1) 2 1/2" tapping screw and (1) 1/4" flat washer each (Fig. 10).

Step 3: Attach bottom of fort angle braces N to fort ground beams AX using (1) 2" hex bolt, (1) 5/16" split washer, (1) 5/16" flat washer and (1) 5/16" t-nut each (Fig. 11). Attach angled cut of fort braces N to fort uprights A using (1) 3" lag screw and (1) 5/16" flat washer each (Fig. 12).

Items Used in this Phase
(2) 'N' - 2x4x090 Fort Angle Braces
(4) 'P' - 5/4x4x013 1/4 Wall Rails
(2) 'BA' - 5/4x4x055 11/16 Floor Supports
Phase 6  Ladder Assembly & Attachment

Step 1: Gather items Q(1), R(1), S(5), AN(2), AT(2) and hardware bag.

Step 2: Place ladder rails Q and R so the dado cuts are facing each other. Place (1) ladder rung S in each dado cut and attach using (2) 2 1/4" deck screws on each side as shown below.

Step 3: Place hand rails AT on ladder rails Q and R. Insert 2" carriage bolt through hole in handle and into pre-drilled hole on top of ladder rails Q and R. Secure using 5/16" flat washer, 5/16" split washer, and 5/16" acorn nut. Screw (4) 1" tapping screws to bottom of hand rails AT as shown below. Attach L-bracket AN to top of Q and R as shown using 5/16" t-nut in inside of deck ladder and 1 1/2" hex bolt, 5/16" flat washer, and 5/16" split washer (Fig. 13).

Step 4: Center deck ladder below wall opening. Measuring 1 1/2" [38mm] from bottom of wall rail B, transfer holes in L-brackets AN through wall rail B using a 3/8" [10mm] drill bit (Fig. 14).

Step 5: Attach deck ladder to wall rail B using 1 1/4" hex bolt, 5/16" flat washer, 5/16" split washer and 5/16" t-nut through L-brackets AN on top of deck ladder (Fig. 15).

Items Used in this Phase
(1) 'Q' - 2x6x062 Ladder Rail (Left)
(1) 'R' - 2x6x062 Ladder Rail (Right)
(5) 'S' - 2x6x018 Ladder Rungs
(2) 'AN' - L-brackets (green)
(2) 'AT' - 4' Handrails (green)
**Phase 7**  Wall Slat Attachment

**Step 1:** Gather items T(16), AN(4) and hardware bag.  
**Step 2:** Attach wall slats.

**SIDES 1 & 3:** Attach (4) wall slats T to wall rails E and P using (4) 1 1/2” deck screws each.  
**SIDE 2:** Attach (8) wall slats T to wall rails G and BA using (4) 1 1/2” deck screws each.

**Step 3:** Secure bottoms of walls on Sides 1 & 3 to floor using (2) L-brackets AN and (4) 1” tapping screws per side (Fig. 16).

⚠️ All slats must be 1” [25mm] off for floor during installation.
Step 1: Gather items U(4), AO(2) and hardware bag.
Step 2: Attach roof trusses U to fort uprights A using 4 1/2" hex bolts, 5/16" flat washers, 5/16" split washers and 5/16" t-nuts (Fig. 17).
Step 3: Bring trusses U together on top and attach fort plates AO to the outside of each roof truss using (5) 1" tapping screws each (Fig. 18).
Phase 9  Roof Assembly

Step 1: Gather items V(2), W(4), AM(2) and hardware bag.
Step 2: Place (2) panels W and (1) panel V on each side of roof and attach to trusses U using (12) 1 3/4" deck screws per roof half.
Step 3: Center roof brace AM under roof and attach using (10) 1" deck screws. Repeat on other side of roof.

Screws must be placed in thickest part of roof board to avoid protrusion.

Screws must be placed in thickest part of roof board to avoid protrusion.
Phase 10 Roof Assembly

Step 1: Gather items X(1), Y(2) and hardware bag.

Step 3: Place roof ridge cap X on top of roof and attach with roof swedges Y by running (2) 2" deck screws through each swedge into roof ridge cap from inside the fort (Fig. 19).
Phase 11  Gable Assembly

Step 1: Gather items listed and hardware bag.
Step 2: Two panels will be made for each side of the fort, a left and a right. Place boards Z, AA, and AB on top of board AC 3/16" [4.76mm] from inside edge and equal spacing from each end making sure to follow the patterns shown. Attach boards to trim using 1 1/4" deck screws. Two sets of panels are required.
Step 3: Attach gable board AF to inside of roof truss U using (2) 1 3/4" deck screws.
Step 4: Set panels on top of gable board AF on the inside of the fort leaving a 6" [152mm] space between panels. Secure panels to trusses U using 1 3/4" deck screws at each corner. Place gable boards AD and AE on top of panels and secure to roof truss using 1 3/4" deck screws.
Step 5: Center frame AP over opening on inside of fort and attach using (4) 1 1/4" deck screws (Fig. 20).
Step 6: Attach window trim AG to outside of window to finish window using 1 1/4" deck screws (Fig. 21).
Phase 12 Picnic Table Assembly

Step 1: Gather items C(4) and hardware bag.
Step 2: Attach floor supports C to fort uprights A on inside of fort using (2) 2 1/2" tapping screws and (2) 1/4" flat washers as shown. Bottom floor support C should be 14 3/4" [375mm] from the ground to the bottom of support C. Top floor support C should be 28 1/2" [724mm] from the ground to the bottom of support C. See Fig. 22

**NOTE** Rockwall not shown for better view of installed parts.
Phase 13 Picnic Table Assembly

Step 1: Gather L(1), M(2), AK(2) and hardware bag.
Step 2: Attach panel cleats AK centered on bottom of panels M with (5) 1 1/2" deck screws each.
Step 3: Place panels M on bottom floor supports C 3 3/4" [95mm] from uprights A and attach using (4) 2 1/4" deck screws each as shown.
Step 4: Place panel L on top floor supports C 14 1/4" [362mm] from uprights A and attach using (6) 2 1/4" deck screws as shown.

**NOTE** Rockwall & ladder not shown for better view of installed parts.

Items Used in this Phase
(1) 'L' - 5/4x4x060 Floor Panel Assembly (6 board)
(2) 'M' - 5/4x4x060 Floor Panel Assemblies (3 board)
(2) 'AK' - 1x3x008 Panel Cleats

(5) 1 1/2" deck screws per bench

(6) 2 1/4" deck screws total for table top

(4) 2 1/4" deck screws per bench
Phase 14  Tower Upright Attachment

Step 1: Gather items AW(2), AZ(2) and hardware bag.
Step 2: Using a 3/8" [10mm] drill bit, drill a hole in the center of uprights A 37 1/2" [953mm] down from the top of the uprights.
Step 3: Attach floor joists AZ to uprights A and tower uprights AW using 4 1/4" hex bolts, 5/16" split washers, 5/16" flat washers, and 5/16" t-nuts as shown.
Step 4: Make sure the frame is square, then attach ground beams D to tower uprights AW using (2) 2 1/2" tapping screws and (2) 1/4" flat washers each.

Items Used in this Phase
(2) 'AW' - 4x4x113 13/16 Tower Uprights
(2) 'AZ' - 5/4x4x041 Floor Joists
Step 1: Gather items AX(2), BA(4) and hardware bag.

Step 2: Attach ground beams AX to bottoms of uprights AW using (4) 4 1/2" lag screws and (4) 5/16" flat washers (Fig. 25). Make sure ground beams are attached as shown below keeping a 50 3/8" [1280mm] gap between uprights.

Step 3: Attach (2) floor supports BA to uprights AW flush with tops of floor joists AZ using (2) 2 1/2" tapping screws and (2) 1/4" flat washers each (Fig. 26).

Step 4: Attach (1) floor support BA to uprights A flush with tops of floor joists AZ using (2) 2 1/2" tapping screws and (2) 1/4" flat washers (Fig. 27).

Step 5: Attach remaining floor support BA to uprights A centered in gap using (2) 2 1/2" tapping screws and (2) 1/4" flat washers (Fig. 27).
Phase 16 Floor Joist Attachment

Items Used in this Phase
(2) 'AN' - L-brackets (green)
(1) 'BB' - 5/4x4x033 1/2 Floor Joists

Step 1: Gather items AN(2), BB(1) and hardware bag.
Step 2: Center and attach floor joist BB flush with the tops of floor supports BA using L-brackets AN and (4) 1" tapping screws (Fig. 28).
Step 3: Secure floor joist BB using (1) 2 1/4" deck screw through floor support BA into end of floor joist BB (Fig. 28).

Fig. 28

(1) 2 1/4" deck screw
(2) 1" tapping screws per AN
Phase 17  
Floor Assembly

Step 1: Gather items K(1), L(2) and hardware bag.
Step 2: Place end floor board K and panel assemblies L on top of floor joist BB in pattern shown.
Step 3: Make sure the boards and panels are centered on the tower, with equal overhang on all sides and attach to floor joists AZ using 2 1/4" deck screws as shown below.
Step 4: Secure floor joist BB to every floor board with 2 1/4" deck screws.

Items Used in this Phase
(1) 'K' - 5/4x6x050 End Floor Board
(2) 'L' - 5/4x4x060 Floor Panel Assemblies (5 board)

(23) 2 1/4" deck screws
Phase 18 Wall Rail Attachment

Items Used in this Phase
(2) 'AY' - 5/4x6x041 Arched Top Wall Rails
(4) 'BC' - 5/4x4x008 3/16 Wall Rails

Step 1: Gather items G(1), AY(2), BA(1), BC(4) and hardware bag.

Step 2: Using pre-drilled holes in uprights AY, attach arched wall rails using (2) 4 1/4" hex bolts, (2) 5/16" flat washers, (2) 5/16" split washers, and (2) 5/16" t-nuts (Fig. 29). Make sure wall rail is level and attach to uprights AW using (2) 2 1/2" tapping screws and (2) 1/4" flat washers (Fig. 30).

Step 3: Place (2) wall rails BC on floor against uprights A and attach using (1) 2 1/2" tapping screw and (1) 1/4" flat washer (Fig. 31).

Step 4: Place (2) wall rails BC on floor against uprights AW and attach using (1) 2 1/2" tapping screw and (1) 1/4" flat washer (Fig. 32).
Phase 19 Angle Brace Attachment

Step 1: Gather G(1), N(2), BA(1) and hardware bag.
Step 2: Attach sandbox board G to uprights AW flush with the tops of wall rails AY using (4) 2 1/2" tapping screws and (4) 1/4" flat washers (Fig. 33).
Step 3: Place floor support BA on floor centered between uprights AW and attach using (2) 2 1/2" tapping screws and (2) 1/4" flat washers (Fig. 34).
Step 4: Attach angle braces N to ground beams AX using (1) 2" hex bolt, (1) 5/16" flat washer, (1) 5/16" split washer, and (1) 5/16" t-nut each (Fig. 35). Do not tighten bolts completely.
Step 5: Attach tops of angle braces N to uprights AW using (1) 3" lag screw and (1) 5/16" flat washer each (Fig. 36). Tighten bolts from Step 4.

Items Used in this Phase
(1) 'G' - 5/4x6x055 11/16 Sandbox Board
(2) 'N' - 2x4x090 Fort Angle Braces
(1) 'BA' - 5/4x4x055 11/16 Floor Support
Phase 20 Wall Slat Attachment

Step 1: Gather T(12), AN(4) and hardware bag.
Step 2: Attach wall slats.

Sides 1 & 3: Attach (2) wall slats T to wall rails AY and BC using (4) 1 1/2" deck screws each.
Side 2: Attach (8) wall slats T to wall rails G and BA using (4) 1 1/2" deck screws each.

Step 3: Secure bottoms of walls on Sides 1 & 3 to floor using (2) L-brackets AN and (4) 1" tapping screws per side (Fig. 37).

Fig. 37

All slats must be 1" [25mm] off floor during installation.
Phase 21 Clamp Attachment

Step 1: Gather item BE(1), T-clamps and hardware bag.

Step 2: Place T-clamps on top and bottom of cross brace BE over pre-drilled holes. If installing a single beam, attach clamp to center hole on cross brace BE. If installing a monkey bar, attach two clamps to two outside holes on cross brace BE as shown below.

Step 3: Install 6" carriage bolt into center hole of clamps (top and bottom) as shown. Attach using 5/16" flat washer, 5/16" split washer and 5/16" acorn nut.

**NOTE** T-clamps and hardware are included with single beam.

**NOTE** Do not fully tighten bolts.

Items Used in this Phase
(1) 'BE' - 4x6x057 Cross Brace
(2) T-Clamps **quantity will vary with single beam or monkey bar**

Single Beam

Monkey Bar

6" carriage bolt

T-Clamp

5/16" flat washer
5/16" split washer
5/16" acorn nut
Phase 22 Cross Brace Attachment

**Step 1:** Gather BA(2), BE(1), BF(2) and hardware bag.

**Step 2:** Attach cross brace BE to uprights AW using (2) clamps BF and hardware shown in Fig. 38. Hardware is included with monkey bar / single beam hardware box.

**Step 3:** Attach single beam or monkey bar to cross brace BE per instructions for single beam or monkey bar. Tighten carriage bolts on T-clamp and cross brace.

**Step 4:** Center floor support BA between cross brace and wall rail G and attach using (2) 2 1/2” tapping screws and (2) 1/4” tapping screws (Fig. 38).

**Step 5:** Attach floor support BA to uprights AW 30” [762mm] from the ground using (2) 2 1/2” tapping screws and (2) 1/4” flat washers.

---

**Fig. 38**

- (1) 1/2”x7 1/2” carriage bolt per clamp BF
- (1) 1/2” flat washer
- (1) 1/2” split washer
- (1) 1/2” acorn nut per clamp BF

- (2) 2 1/2” tapping screws
- (2) 1/4” flat washers total

---

**Items Used in this Phase**

(2) 'BA' - 5/4x4x055 11/16 Floor Supports
(1) 'BE' - 4x6x057 Cross Brace
(2) 'BF' - Cross Brace Clamps
**Phase 23 Rockwall Assembly**

**Step 1:** Gather items AI(13), AJ(11), AN(2), AR(1), AS(1), BD(2) and hardware bag.

**Step 2:** Attach rockwall boards AI and AJ to rockwall supports BD using (4) 2 1/4" deck screws each. Alternate AI and AJ so every other board has pre-drilled rock hole. Also rotate every other board AI 180° so the rock holes are not in line.

**Step 3:** Attach L-bracket AN to top of BD using 5/16" t-nut in inside of BD and 1 1/4" hex bolt, 5/16" flat washer, and 5/16" split washer (Fig. 39).

**Step 4:** Slide rockwall under floor where shown and attach rockwall to floor joist AZ using (2) 2 1/2" tapping screws and (2) 1/4" flat washers through L-brackets AN (Fig. 40).

**Step 5:** Attach rocks to rockwall using 1 1/2" hex bolts, 5/16" split washers, 1" tapping screws and 5/16" t-nuts.

---

**Items Used in this Phase**

13) 'AI' - 5/4x4x035 3/4 Rockwall Boards (w/o hole)
11) 'AJ' - 5/4x4x035 3/4 Rockwall Boards (w/ hole)
2) 'AN' - L-brackets (green)
1) 'AR' - Climbing Rocks (bag of 5)
1) 'AS' - Climbing Rocks (bag of 6)
2) 'BD' - 5/4x4x080 1/2 Rockwall Supports
Phase 24 Gusset Attachment

Step 1: Gather items AL(4) and hardware bag.
Step 2: Attach (2) gussets AL to uprights A and floor supports C using (2) 2" tapping screws, (1) 2 1/2" tapping screw and (3) 1/4" flat washers each (Fig. 41).
Step 3: Attach (2) gussets AL to uprights AW and floor joists AZ using (2) 2" tapping screws, (1) 2 1/2" tapping screw and (3) 1/4" flat washers each (Fig. 42).
Phase 25 Grab Handles & Placard Attach

Step 1: Gather AQ(4), AU(1) and hardware bag.
Step 2: Place handles AQ centered on inner most wall slats T of center opening walls shown. Drill 5/16" [8mm] hole through each hole of hand grip. Insert 1/4" t-nuts in inside of wall slats. Attach handles AQ using 1/4"x1" machine truss screws, 1/4" split washers and 1/4" flat washers through each drilled hole (Fig. 43).
Step 3: Attach placard AU to wall rail E using 3/4" tapping screws (Fig. 44).

Items Used in this Phase
(4) 'AQ' - Grab Handles (green)
(1) 'AU' - BYA Placard
Phase 26 Anchoring

Step 1: Gather item AV(1) and hardware bag.
Step 2: Drive stakes AV into ground where shown below and attach using 1 1/2" lag screws (Fig. 45).
Step 3: Double check to make sure every bolt, screw and nut is tight and that every board is secure.

Fig. 45

1 1/2" lag screw
Ground Beam

Failure to use stakes can void warranty and cause injury.
Single Beam Option
2 POSITION TOP BEAM
BEAM - 4X6X98"
STRIP - 2 3/4"X75"
TOP PLATE 2 POS

3 POSITION TOP BEAM
BEAM - 4X6X133"
STRIP - 2 3/4"X110"
TOP PLATE 3 POS

4 POSITION TOP BEAM
BEAM - 4X6X169"
STRIP - 2 3/4"X132"
TOP PLATE 4 POS
### Single Beam Parts Identification

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![Diagram of Single Beam parts](image-url)
Step 1: Gather items A, C, E, F, G & hardware bag.

Step 2: Attach the single beam clamps to angled legs A by inserting (2) 5/16"x4" carriage bolts through the square holes on H and the hole on A as shown below. Use (2) 5/16" flat washers and (2) 5/16" lock nuts as shown in (Fig. 1) to hold clamps in place.

Step 3: Attach top beam C to assembly by placing top plate over holes and inserting (2) 5/16"x6" carriage bolts through the holes of top plate as shown below. Place C over F and align the holes so bolts go through holes in H. Attach with (2) 5/16" flat washers and (2) 5/16" lock nuts (Fig. 2).

**NOTE**: Holes for the 2 and 3 position single beam are at the end of the beam. The 4 position holes for the plate are between the third and fourth position on the beam.

NOTE: If top plate holes are not matching up with the beam, turn the beam over to check for better alignment.
Step 1: Gather items J (2), swing hangers, & hardware bag.  
Step 2: Attach swing hangers using 6 1/2" carriage bolts as shown below.  
Step 3: Center metal strip top to bottom between Top Plate and bottom of 4x6 beam.  
Step 4: Start attachment of strip 20 1/2" from end of beam as shown below.

NOTE: CENTER STRIP PER DETAILS SHOWN ABOVE AND ATTACH WITH LAGS.
Step 1: Gather T clamp & hardware bag.
Step 2: Place T clamp on top and bottom of cross brace over centered pre-drilled hole.
Step 3: Install carriage bolt into center hole of clamp top and bottom as shown.
 Attach using acorn nut, split washer and flat washer.

**NOTE** Do not fully tighten bolts.
Single Beam
Phase 4

Step 1: Gather assembly from phase 3 & hardware bag.
Step 2: Slide top beam into clamp on fort and attach with 5/16"x6" carriage bolts as shown in fig. 1 below.
Step 3: Adjust the single beam legs to make sure the top beam is level. Legs may be taken in or out to adjust on uneven ground.
Step 4: Once top beam is level, secure legs using (8) 5/16"x2 1/2" lag screws per single beam clamp as shown below.
Step 5: Attach support brace B to legs with (2) 4 1/2" lag screws and (2) flat washers.
Step 6: Place double angle gussets G against beam and cross brace & attach with (4) 4 1/2" lag screws and 5/16" washers as shown in Fig G.
Drive stake into ground at an angle. Attach with lag screws.

**NOTE** Attach stakes to 4x6 single beam legs. Stakes must be located as shown.

Failure to use stakes can void warranty and cause injury.
Step 1: Position fireman pole a few inches above top wall rail and centered in wall opening.
Step 2: Push pole into ground until centered on wall rail.
Step 3: Drill 3/8" hole through bracket and wall rail.
Step 4: Hammer 5/16" t-nut into back side of wall rail and attach pole using 1 1/2" hex bolt, 5/16" flat washer, and split washer as shown above on both sides.

MONKEY BAR

Step 1: Stand Fireman pole under MB. Locate to owners choice.
Step 2: Attach to MB with 3" lags.
Step 3: Bottom of MB will have to be pushed into ground to create the correct height.

INS-FP-09
ROCKET SLIDE

FOOT & STANDOFF ATTACHMENT

* YOUR GROUND CONDITION MAY OR MAY NOT REQUIRE THE STANDOFF SECTION. YOU CAN USE A MAX OF 2 STANDOFFS FOR A ROCKET SLIDE.

* NEST THE EXIT OF THE ROCKET SLIDE INTO THE TOP OF THE FOOT.

* ATTACH THE FOOT TO THE SLIDE WITH LAG SCREWS AS SHOWN. CHECK THE HEIGHT OF THE SLIDE EXIT, IT'S RECOMMENDED NOT TO EXCEED 12 INCHES.

* ADD STANDOFF SECTIONS AS NEEDED BY SLIDING THE STANDOFF UNDER THE FOOT, ALLOWING THE FOOT TO NEST OVER THE STANDOFF.

* CENTER SLIDE IN WALL OPENING.

* REST SLIDE ON FORT FLOOR.

* PLACE BOTTOM LIP OF SLIDE FLUSH WITH EDGE OF THE FLOOR BOARD.

2016 TREE HOUSE SERIES

NOTE: DO NOT OVER TIGHTEN. SCREW SHOULD NOT PROTRUDE PAST T-NUT FACE.

2016 TREE HOUSE ONLY

* DRILL (2) 3/16" PILOT HOLES THRU RECESSED HOLES IN SLIDE CORNERS & INTO FORT RAIL.

* ATTACH SLIDE TO FORT WITH (2) LAG SCREW WH 5/16x2 1/2 WZ

LEVEL GROUND

ROCKET SLIDE

* DRILL 3/8" HOLES THRU RECESSED HOLES IN THE TOP CORNERS OF SLIDE & THRU FORT FLOOR.

* INSERT T-NUTS INTO BOTTOM OF FLOOR.

* INSERT BOLTS THRU SLIDE & PUT SLIDE BACK IN PLACE, ATTACH AS SHOWN.