EXPEDITION® Series
Avalanche
Assembly Instructions

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.

Items Needed:
1RRG-10
2B977-10
2B978-10
2FB1274-10
2FB1275-10
2FB1257-09
2HB275-10
3A089

Backyard Adventures
INS-AVALANCHE-10
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.

Recommended Play Area

23'-3" [7087mm]

32'-3" [9830mm]
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.

Tools Required

<table>
<thead>
<tr>
<th>(Level 24”)</th>
<th>(Open end Wrenches 1/2” &amp; 9/16”)</th>
<th>(Nut drivers 1/2” &amp; 9/16”)</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Tape Measure)</td>
<td>(3/8” Ratchet, 1/2” &amp; 9/16” STD sockets 1/2” &amp; 9/16 deep sockets)</td>
<td>(Claw Hammer)</td>
</tr>
<tr>
<td>(3/8” Cordless Drill or Electric drill)</td>
<td>(3/16”, 5/16” &amp; 3/8” drill bits)</td>
<td>(Drill attachments: Phillips head screw 3/8” Socket Driver Torque head screw)</td>
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<tr>
<td><strong>USE OF IMPACT DRILL NOT RECOMMENDED</strong></td>
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</table>

(Phillips & Straight Blade Screwdrivers) (Rubber Mallet—Optional)
# 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>4L3041-10 - 4x4x080 1/4 [102x102x2038mm] Angle Legs</td>
<td>4</td>
</tr>
<tr>
<td>B</td>
<td>4L3035-10 - 5/4x6x052 [32x152x1321mm] Rockwall Board</td>
<td>13</td>
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<tr>
<td>C</td>
<td>4L3036-10 - 5/4x4x052 [32x102x1321mm] Rockwall Board</td>
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</tr>
<tr>
<td>D</td>
<td>4L3044-10 - 4x4x069 [102x102x1753mm] Ground Beam</td>
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<tr>
<td>E</td>
<td>4L3045-10 - 4x4x101 1/2 [102x102x2578mm] Rope Ladder Ground Beam</td>
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<tr>
<td>F</td>
<td>4L1866-06 - 4x6x009 15/16 [102x152x252mm] Angle Support Brace</td>
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<tr>
<td>G</td>
<td>4L3023-10 - 4x6x078 3/8 [102x152x252mm] Floor Support (Rip to 2x5 3/8 [51x137mm])</td>
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<tr>
<td>H</td>
<td>4L3037-10 - 4x4x077 [102x102x1956mm] Tarp Vertical Support</td>
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<td>I</td>
<td>4L3040-10 - 4x4x039 1/4 [102x102x997mm] Corner Support</td>
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<td>J</td>
<td>4L3026-10 - 1x6x051 1/2 [25x152x1308mm] Floor Brace</td>
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<tr>
<td>K</td>
<td>4L2415-08 - 5/4x4x064 [32x102x1626mm] Ladder Rail (Left)</td>
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<td>L</td>
<td>4L2414-08 - 5/4x4x064 [32x102x1626mm] Ladder Rail (Right)</td>
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<tr>
<td>M</td>
<td>4L2417-08 - 5/4x4x018 3/4 [32x102x476mm] Deck Ladder Step</td>
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<td>N</td>
<td>4L2703-09 - 1x4x019 3/4 [25x102x502mm] Ladder Cap Board</td>
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<tr>
<td>O</td>
<td>4L3034-10 - 1x3x017 [25x76x432mm] Cleat</td>
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<td>P</td>
<td>4L3033-10 - 1x6x061 3/4 [25x152x1569mm] Floor Board</td>
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<tr>
<td>Q</td>
<td>4L3032-10 - 1x6x022 3/4 [25x152x578mm] End Floor Board</td>
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**NOTE:** All widths and heights shown are nominal sizes, not actual sizes. Lengths are shown in actual size.
### Parts Identification

**Wood Components (cont.)**

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<td>4L3043-10</td>
<td>4x4x093 [102x102x2362mm] Rope Ladder Accessory Arm</td>
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<td>4L3046-10 - 4x4x093 [102x102x2362mm] Trapeze Accessory Arm</td>
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<td>4L2850-09 - 4x4x016 [102x102x406mm] Gusset</td>
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<td>4L3038-10 - 2x4x092 [51x102x2337mm] Tarp Horizontal Support</td>
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<td>4L3029-10 - 1x6x055 3/4 [25x152x1416mm] Arch Wall Rail</td>
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<td>4L3028-10 - 1x4x055 3/4 [25x102x1416mm] Bottom Wall Rail</td>
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<td>4L3039-10 - 2x6x055 3/4 [51x152x1416mm] Single Beam Cross Brace</td>
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<td>4L3030-10 - 5/4x4x029 5/8 [32x102x753mm] Center Wall Slat</td>
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<td>4L3025-10 - 1x4x052 [25x102x1321mm] Tarp Top Cap</td>
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<td>4L3031-10 - 1x4x061 3/4 [25x102x1569mm] Floor Board</td>
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<td>4L3047-10 - 2x4x027 [51x102x686mm] Rope Ladder Rung</td>
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<td>4L3048-10 - 4x4x006 [102x102x152mm] Tire Swing Block</td>
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**NOTE:** All widths and heights shown are nominal sizes, not actual sizes. Lengths are shown in actual size.

(2) 6P138 - Glider Arms & (1) 6P139 Glider Seat not pictured
**Parts Identification  Misc. Components**

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<tr>
<td>AH</td>
<td>6P028 - Hand Grip (green)</td>
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<td>AL</td>
<td>6B002 - BYA Placard</td>
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<tr>
<td>AJ</td>
<td>6F019 - 51 x 136 [1295 x 3454mm] PVC Tarp (green)</td>
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<td>AK</td>
<td>4M032 - L-bracket (Green)</td>
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<tr>
<td>AL</td>
<td>6PCR5 - Climbing Rocks (5 count bag)</td>
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<td>AM</td>
<td>6P053 - Plastic Trapeze Bar (green)</td>
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<td>AN</td>
<td>4M1003 - 30&quot; [762mm] 2/0 Chain (green)</td>
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<td>AO</td>
<td>4M1112-09 - 51&quot; [1295mm] 2/0 Chain (green)</td>
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<td>AP</td>
<td>3A089 - Tire Swing Seat</td>
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<td>AQ</td>
<td>6M012 - 16&quot; [406mm] Rebar Stakes (bag of 6)</td>
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<td>AR</td>
<td>3A112-09 - Glider Bracket Assembly</td>
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<td>AS</td>
<td>6HASH - Large Swing Hanger</td>
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<td>AT</td>
<td>6HTRS - Tire Swivel</td>
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<td>AU</td>
<td>6H072 - Large Quick Link</td>
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<td>AV</td>
<td>4R017-10 - 5/8 x 13'6&quot; [16 x 4115mm] Rope</td>
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</table>

(2) 6P138 - Glider Arms & (1) 6P139 Glider Seat not pictured

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

Measuring hardware

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

**Do not include bolt head when measuring length of bolt.**

NOTE: Lengths of bolts and screws may vary slightly.
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 lag/tapping screw head when measuring.
2) Include full length of deck screw when measuring.

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

Step 1: Gather items A(4), B(13), C, D, E and hardware bag.

Step 2: Layout angle legs A as shown. Maintain 52" [1321mm] outside to outside. Place legs square top to bottom and side to side. Note the angled cut facing up.

Step 3: Attach E and D 2" [51mm] from the bottom of A as shown.

Step 4: Attach rockwall board B flush with E as shown. Attach 2nd rockwall board to this section 5 1/4" [133mm] from the bottom of the angle as shown.

Step 5: Attach remaining rockwall boards B (11) and C (1) to the second section as shown.

Items Used in this Phase
(4) 'A' - 4x4x080 1/4 Angle Legs
(13) 'B' - 5/4x6x052 Rockwall Boards
(1) 'C' - 5/4x4x052 Rockwall Board
(1) 'D' - 4x4x069 Ground Beam
(1) 'E' - 4x4x101 1/2 Rope Ladder Ground Beam

Note: It is vital that the frame be level and square before and after this phase!
Phase 2  Frame Assembly

Step 1: Gather items F(4) and hardware bag.
Step 2: Flip leg sections made in Phase 1 over.
Step 3: Attach gusset F to ground beams D/E and angle legs A as shown in Fig. 1.

Fig. 1

<table>
<thead>
<tr>
<th>Lag screw</th>
<th>3/16&quot; flat washer per F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lag screws</td>
<td>4 1/2&quot; lag screws</td>
</tr>
<tr>
<td>Flat washers</td>
<td>5/16&quot; flat washers per F</td>
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</table>
Phase 3  Base Assembly

Step 1: Gather items G(2) and hardware bag.
Step 2: Align leg sections and floor supports G as shown.
Step 3: Insert hardware in top hole of G and loosely attach nut from inside of Legs A (Figs. 2&3).
Step 4: Lift one leg section up at a time and align bottom hole in G with bottom hole in legs A. Insert last 4 hex bolts into G & A.
Step 5: Make sure supports G are level and tighten all bolts (Fig. 4).

Fig. 3

5 1/2" hex bolt
5/16" fender washer
5/16" flat washer
5/16" lock nut

Fig. 4

Note: It is vital that the fort be level and square after this phase!
Phase 4  Corner Posts & Tarp Supports

Items Used in this Phase
(2) ‘H’ - 4x4x077 Tarp Vertical Supports
(4) ‘I’ - 4x4x039 1/4 Corner Supports

Step 1: Gather items H(2), I(4) and hardware bag.
Step 2: Attach tarp vertical supports H to floor supports G (Fig. 5). Make sure they are perpendicular to supports G.
Step 3: Attach corner supports I to floor supports G (Fig. 6). Attach angle legs to corner supports using hardware as shown (Fig. 6).

Fig. 5

Fig. 6

Note: It is vital that the supports be level and square after this phase!
Phase 5  Floor Brace Attachment

Step 1: Gather items J(4) and hardware bag.
Step 2: Attach floor braces J to corner supports I and center tarp supports H as shown below. Flush braces with the top of floor supports G (Fig. 7).

Fig. 7  Flush at the top
(2) 2 1/2” tapping screws
(2) 5/16” flat washers
(4) each per board J

Items Used in this Phase
(4) 'J' - 1x6x051 1/2 Floor Brace
Phase 6  Ladder Assembly

Step 1: Gather items K, L, M(5), N and hardware bag.
Step 2: Attach ladder rails K & L to each side of ladder rungs M using 3" deck screws (Fig. 8).
Step 3: Attach cap board N to the back of ladder 2" [51mm] from top step using 2 1/4" deck screws (Fig. 9).

Fig. 8

Fig. 9

Items Used in this Phase
(1) 'K' - 5/4x6x064 Ladder Rail (right)
(1) 'L' - 5/4x4x064 Ladder Rail (left)
(5) 'M' - 5/4x4x018 3/4 Deck Ladder Step
(1) 'N' - 1x4x019 3/4 Ladder Cap Board
Phase 7  Ladder Attachment

Step 1: Gather ladder assembly, AK(4) and hardware bag.
Step 2: Center ladder assembly on the side of Fort shown. With 3/8" [10mm] bit, drill a hole through the rockwall boards and ladder rails using holes in bracket AK as a guide (Fig. 10).
Step 3: Hammer T-nuts into drilled hole from behind rockwall boards and inside ladder rails. Attach ladder assembly to these boards as shown in Top L-brackets diagram.
Step 4: Attach bottom L bracket to the ladder as shown (Bottom L-brackets).

Top L-brackets

(2) 1" hex bolts
(2) 5/16" split washers
(2) 5/16" flat washers
(2) 5/16" t-nuts

Bottom L-brackets

5/16" t-nut
3/4" tapping screw
1" hex bolt
5/16" flat washer
5/16" split washer

Items Used in this Phase
(1) Ladder Assembly
(4) 'AK' - L-brackets (green)
Phase 8  Floor Assembly

Step 1: Gather items O(6), P(7), Q(4), AD(2), AF and hardware bag.

Step 2: Assemble 2 floor panels per diagram below using (18) 1 1/4" deck screws each.

Step 3: Center floor panels and floor board AF between uprights on top of floor braces as shown below.

Step 4: Attach all boards with 1 1/4" deck screws to the floor braces as shown.

Step 5: Attach end floor boards Q using 1 1/4" deck screws as shown.

Items Used in this Phase:
(6) 'O' - 1x3x017 Cleats
(7) 'P' - 1x6x061 3/4 Floor Boards
(4) 'Q' - 1x6x022 3/4 End Floor Boards
(2) 'AD' - 1x4x061 3/4 Floor Boards
(1) 'AF' - 1x6x061 3/4 Floor Board (Rip to 4 1/2"

(52) 1 1/4" Deck Screws
Phase 9  Accessory Arm Attachment

Step 1: Gather items R, S and hardware bag.
Step 2: Attach accessory arms R and S to corner supports I as shown below (Fig. 11).

Fig. 11
Phase 10 Tarp Support Attachment

Step 1: Gather items U(2) and hardware bag.
Step 2: Attach tarp supports U to supports I and H as shown below (Fig. 13).

Fig. 13

5/16" t-nut
(3) total each U

4 1/2" hex bolt
5/16" fender washer
(3) total each U

Items Used in this Phase
(2) 'U' - 2x4x092 Tarp Horizontal Supports
Phase 11 Fort Wall Assembly

Step 1: Gather items V, W(9), X, Y, Z and hardware bag.

Step 2: Attach wall rails V and Z to corner supports L and tarp supports H with hardware shown in Fig. 14.

Step 3: Attach wall rails X & Y to supports H and L using hardware shown in Fig. 15.

Step 4: Attach wall slats W 2 3/8" [60mm] above floor using a gap between wall slats of no more than 3 1/4" [83mm] (Figs. 16,17,18). Any wider gap could result in a head entrapment.

Fig. 14
(2) 5/16" t-nuts
(5) total for V
(2) 4" hex bolts
(2) 5/16" fender washers
(5) each total for V

Fig. 15
(2) 2 1/2" tapping screws
(2) 5/16" fender washers for X & Y
(5) 4 1/2" hex bolts
(5) 5/16" fender washers
(5) 5/16" t-nuts

Fig. 16
1 1/4" deck screws

Fig. 17 - Inside View

Fig. 18 - Inside View
Phase 12 Tarp Roof Assembly

Step 1: Gather items AB(2), AC(1), AH(2), and hardware bag.
Step 2: Attach tarp end caps AB and tarp top cap AC as shown using (4) 2 1/4" deck screws each (Fig. 19). To prevent board splitting, pre-drill a 1/8" [3mm] pilot hole for each deck screw.
Step 3: Attach (2) handles AH to angle legs on rockwall as shown (Fig. 20).

Fig. 19

(2) 2 1/4" deck screws
(4) total per AB and AC

Fig. 20

(2) 2 1/2" tapping screws
(2) 1/4" flat washers per AH on angle legs

Items Used in this Phase
(2) 'AB' - 1x4x054 3/4 Tarp Endcap
(1) 'AC' - 1x4x052 Tarp Top Cap
(2) 'AH' - Hand Grips (green)
Phase 13 Tarp Roof Assembly

Step 1: Gather items AA, AH, AK and hardware bag.
Step 2: Attach handle AH and bracket AK to bottom hole in slat AA using hardware as shown (Fig. 21).
Step 3: Swivel handle AH up and drill a hole to attach top of handle to slat AA using 3/8" [10mm] drill bit (Fig. 22). Attach handle to slat using hardware shown in Fig. 23.
Step 4: Center wall slat AA on the rockwall side of fort. Use pre-drilled hole and attach slat to accessory arm S using 3" lag screw and 5/16" flat washer.
Step 5: Using hole in bracket AK as a guide, drill a hole through floor using 3/8" [10mm] bit (Fig. 24). Insert t-nut into drilled hole from bottom of floor.
Step 6: Attach bracket AK to floor as shown in Fig. 25.

Items Used in this Phase
(1) 'AA' - 5/4x4x029 5/8 Center Wall Slat
(1) 'AH' - Hand Grips (green)
(1) 'AK' - L-bracket (green)
Phase 14 Tarp Roof Attachment

Step 1: Gather items AJ and hardware bag.

Step 2: Attach tarp AJ to roof frame using the following steps (Fig. 26):
   a) Drape tarp over tarp top cap AC and tarp end caps AB.
   b) Attach one side of tarp to the inside of one tarp end cap AB with (4) 3/4" tapping screws.
   c) Pull other side of tarp tight and attach to inside of other tarp end cap AB with (4) 3/4" tapping screws as shown.

Fig. 26

SIDE VIEW

3/4" tapping screw
4 total (each side)
Phase 15 Gusset Attachment

Step 1: Gather items T(2) and hardware bag.
Step 2: Attach accessory arm gussets T to corner posts and accessory arms as shown (Fig. 27).

Fig. 27

Items Used in this Phase
(2) 'T' - 4 x 4 x 016 Gussets

- 6 3/4" hex bolt
- 5/16" flat washer
- 5/16" lock nut
- 5/16" flat washer
- 4 1/2" lag screw
Phase 16 Rope Ladder Assembly

Step 1: Gather items AE(6), AV(3) and hardware bag.

Step 2: Feed ropes AV through front face of E and tie knots near the end of the rope. It is important that as you space the ladder rungs along the ropes, you tie a knot at the proper location that will hold the rungs approx. 11 3/8" [289mm] apart as shown. Continue with rung installation until all items AE are in place. Feed the remaining portion of rope through the bottom of R and tie knots on the top side.

Note: the gap between all rungs and accessory arms are not to be less than 10" [254mm] when the installation is complete.

Items Used in this Phase
(6) 'AE' - 2x4x027 Rope Ladder Rungs
(3) 'AV' - 5/8x13'-6" Rope (green)
Phase 17  Trapeze Bar Attachment

Step 1: Gather items AM, AN(2), AS(2) and hardware bag.
Step 2: Attach swing hangers AS to accessory arm S as shown in Fig. 28.
Step 3: Attach trapeze bar AM to chains AN using hardware included with trapeze.
Step 4: Attach trapeze bar AM to swing hangers AS using quick links AU (Fig. 28).

Fig. 28

Items Used in this Phase
(1) 'AM' - Plastic Trapeze Bar (green)
(2) 'AN' - 30" 2/0 Chains (green)
(2) 'AS' - Large Swing Hangers
(2) 'AU' - Large Quick Links

(2) 4" hex bolts
(2) 5/16" fender washers per AS

(2) 5/16" flat washer
(2) 5/16" lock nuts per AS
Phase 18 Tire Swing Attachment

Step 1: Gather items AG, AN(3), AP, AT, AU(4) and hardware bag.

Step 2: Center block AG between 2 center floor braces J under floor. Use block to mark hole locations that will need to be drilled.

Step 3: Drill out holes using 3/8" [10mm] bit and attach block AG and swivel AT to bottom of floor with hardware shown below (Fig. 29).

Step 4: Assemble tire as shown (Fig. 30) and hang from tire swivel AT with quick link AU as shown (Fig. 31).

Items Used in this Phase
(1) 'AG' - 4x4x006 Tire Swing Block
(3) 'AN' - 30" 2/0 Chains (green)
(1) 'AP' - Tire Swing Seat
(1) 'AT' - Tire Swivel
(4) 'AU' - Large Quick Links
Phase 19  Climbing Rock Attachment

Step 1: Gather items AL(2) and hardware bag.
Step 3: Attach rocks as shown (Fig. 32). Tap in T-nut from back side of boards and us hardware as shown.

Items Used in this Phase
(2) 'AL' - Climbing rocks (bags of 5)

Fig. 32

(10) 1 1/2" hex bolts
(10) 5/16" split washers
(10) 5/16" t-nuts
(10) 1 1/4" deck screws

12 *
11 *
10 *
9 *
8 *
7 *
6 *
5 *
4 *
3 *
2 *
1 *

10" [254mm] Center 10" [254mm]
Phase 20 Anchoring

Items Used in this Phase
(1) 'AQ' - 16" Rebar Stakes (bag of 6)

Step 1: Gather item 'AQ' and hardware bag.
Step 2: Drive Stakes into ground against boards where shown below and attach with (1) 1 1/2" lag screw each.

Note: Failure to use stakes can void warranty & cause injury.

Final Step: Double check to make sure every bolt, screw and nut is tight. Make sure every board is secure. Make sure the fort is level and enjoy your playset!
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.
### Parts Identification

**Wood & Hardware Components**

<table>
<thead>
<tr>
<th>ID</th>
<th>DESCRIPTION</th>
</tr>
</thead>
</table>

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

<table>
<thead>
<tr>
<th>ID</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>2A1184-11</td>
<td>3/4x6x063 [19x152x1600mm] Roof Panel Assembly (4 board)</td>
</tr>
<tr>
<td>6</td>
<td>4L3168-11 - 2x6x015 5/8 [51x152x397mm] Mending Plate</td>
</tr>
<tr>
<td>2</td>
<td>4L3169-11 - 4x4x063 [102x102x1600mm] Roof Ridge Cap (Rip to 1 3/4x3 5/16 [44x84mm]</td>
</tr>
<tr>
<td>1</td>
<td>4L3170-11 - 2x4x060 1/2 [51x102x1537mm] Roof Truss</td>
</tr>
<tr>
<td>4</td>
<td>4L3171-11 - 1x3x055 [25x76x1397mm] Roof Brace</td>
</tr>
<tr>
<td>2</td>
<td>5/16&quot; [8mm] Flat Washers 6HFW5/16</td>
</tr>
</tbody>
</table>

**5/16" x 4" [8mmx102mm] Lag Screws**

- 6HLS4

**#8 x 2 1/2" [64mm] Deck Screws**

- 6HS21/2

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

- 6HS21/4

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

- 6MS11/4

**NOTE:** Lengths of bolts and screws may vary slightly.
Phase 1  Truss / Ridge Cap Attachment

Step 1: Gather C(1), D(4), and hardware bag.
Step 2: Center (2) roof trusses D against tarp uprights, on top of tarp supports. Attach at the top to uprights using (2) 2 1/2" deck screws each (Fig. 1). Repeat on opposite side of roof.
Step 3: Attach bottom of trusses D to tarp supports using (1) 4" lag screw and (1) 5/16" flat washer each (Fig. 2).
Step 4: Center ridge cap C on tarp top cap and attach using (4) 2 1/2" deck screws (Fig. 3).

Items Used in this Phase
(1) 'C’ - 4x4x063 Roof Ridge Cap
(4) 'D’ - 2x4x060 1/2 Roof Trusses
Phase 2  Roof Assembly

Step 1: Gather A(6), B(2), E(2) and hardware bag.
Step 2: Place (3) panel assemblies A on each side of roof, butting up against ridge cap C and attach to trusses D using (4) 2 1/4" deck screws each. Repeat on other side of roof.
Step 3: Attach roof braces E to under side of panels A 3" [76mm] down from top roof board using (14) 1 1/4" deck screws each (Fig. 4).
Step 4: Place mending plates B against trusses D at peak of roof and attach to trusses D using (4) 2 1/4" deck screws each (Fig. 5).

Fig. 4

Fig. 5

Items Used in this Phase
(6) 'A' - 3/4x6x063 Roof Panel Assemblies (4 board)
(2) 'B' - 2x6x015 5/8 Mending Plates
(2) 'E' - 1x3x055 Roof Braces

(12) 2 1/4" deck screws per roof half

(14) 1 1/4" deck screws per roof brace E

(4) 2 1/4" deck screws per mending plate B
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.
**Parts Identification**

**Wood Components**

*(NOT TO SCALE)*

(1) A1 - 86x134x2997 SINGLE BEAM - 4L3259-13
3 3/8”x5 1/4”x118” (86x134x2997)

(2) SP1 - 86x86x2489 SINGLE BEAM LEG - 4L3260-13
3 3/8”x3 3/8”x98” (86x86x2489)

(1) G1 - 24x134x1905 SWING LEG SUPPORT - 4L3261-13
1”x5 1/4”x75” (24x134x1905)

**Parts Identification**

**Hardware**

(2) **N** - CARRIAGE BOLT (5/16”x6”) - 6HCB6

(2) **L** - CARRIAGE BOLT (5/16”x4”) - 6HCB4

(12) **V** - HEX BOLT (5/16”x6”) - 6HHB6

(2) **S** - HEX BOLT (5/16”x4”) - 6HHB4

(4) **Z** - HEX BOLT (5/16”x1 1/2”) - 6HHB1 1-2

(4) **U** - LAG SCREW (5/16”x3”) - 6HLS3

(8) **P** - LAG SCREW (5/16”x2”) - 6HLS2

(4) **AD** - SPLIT WASHER (5/16”) - 6HSW

(20) **T** - FENDER WASHER (8mm x 27mm) - 6HFWF8x27

(18) **M** - LOCKNUT (5/16”) - 6HLN5-16

(28) **K** - FLAT WASHER (5/16”) - 6HFW5-16
Parts Identification

Accessories

(NOT TO SCALE)

(2) H - SINGLE BEAM CLAMP - 4M1037-13

(2) R - BRACE - 5" ANGLED (GREEN) - 4M1077-08

(1) J - SINGLE BEAM TOP PLATE CLAMP - 4M1038-06B

(2) A - SWING SEAT ASSEMBLY (GREEN) - 2A1246-08

(2) F - 2/0 CHAIN - 30" (GRN) - 4M1003

(6) D - QUICK LINK (LONG) - 6H072

(1) W - PLASTIC TRAPEZE BAR (GREEN) - 6P053

(6) G - SWING HANGER - LARGE (DUCTILE) - 6HASH
STEP 1

Carriage bolts go through the square holes in clamp 'H' and into pre-drilled holes in legs 'SP1'.

Note orientation of hole in legs 'SP1'.

(2) SP1 - 86x86x2489 SINGLE BEAM LEG - 4L3260-13
3 3/8"x3 3/8"x98" (86x86x2489)

(2) H - SINGLE BEAM CLAMP - 4M1037-13

CARRIAGE BOLT (5/16"x4") (2 PLCS)

FLAT WASHER (5/16") (2 PLCS)

LOCKNUT (5/16") (2 PLCS)
**STEP 2**

1. **A1 - 86x134x2997 SINGLE BEAM - 4L3259-13**
   - 3 3/8"x5 1/4"x118" (86x134x2997)

2. **R - BRACE - 5” ANGLED (GREEN) - 4M1077-08**

- HEX BOLT (5/16"x6") (12 PLCS)
- FENDER WASHER (8mm x 27mm) (12 PLCS)
- FLAT WASHER (5/16") (12 PLCS)
- LOCKNUT (5/16") (12 PLCS)

**STEP 3**

1. **G - SWING HANGER - LARGE (DUCTILE) - 6HASH**

- HEX BOLT (5/16"x1 1/2") (4 PLCS)
- FENDER WASHER (8mm x 27mm) (8 PLCS)
- SPLIT WASHER (5/16") (4 PLCS)
- LOCKNUT (5/16") (2 PLCS)
**STEP 4**

![Diagram of a single beam top plate clamp with parts labeled]

- **CARRIAGE BOLT (5/16"x6")** (2 PLCS)
- **LOCKNUT (5/16")** (2 PLCS)
- **FLAT WASHER (5/16")** (2 PLCS)

**STEP 5**

Adjust legs 'SP1' to make sure top beam 'A1' is level. Once top beam is level, secure legs with lag screws and flat washers as shown. This allows for adjustment on uneven ground.

- **LAG SCREW (5/16"x2")** (8 PLCS)
- **FLAT WASHER (5/16")** (8 PLCS)
STEP 6

Locate leg support 'G1' so that ends are flush with outside of legs 'SP1'.

(1) G1 - 24x134x1905 SWING LEG SUPPORT - 4L3261-13
1"x5 1/4"x75" (24x134x1905)

LAG SCREW (5/16"x3")
(4 PLCS)

FLAT WASHER (5/16")
(4 PLCS)
STEP 7

Remove bolt from trapeze and loop one end of chain through bolt.

Place bolt back through hole on trapeze and place flat washer and lock nut on end and tighten.
NOTE:
This completes the swing beam assembly with trapeze. Continue on to STEP 9 if you purchased the Rocket Glider.
STEP 9

**HEX BOLT (5/16"x6")**
(4 PLCS)

**FENDER WASHER (8mm x 27mm)**
(4 PLCS)

**LOCKNUT (5/16")**
(4 PLCS)

**LOCK NUT**

**WASHER**

**GLIDER CAP**

**GLIDER SUPPORT**

**SWING BUSHING**

**SWING HANGER**

**CHAIN**

(4) **Y - 2/0 CHAIN 51" (GREEN) - 4M1112-09**

(2) **X - ASSEMBLY - GLIDER BRACKET EXPEDITION - 3A112-09**
Rider Assembly

Step 1: Insert Rider seat into Rider arms & attach with (2) 6” hex bolts, (4) flat washers & (2) lock nuts as shown.

Step 2: Loop chain over eye bolt as shown. Attach eye bolts to Rider arms using 5/16” flat washers and lock nuts as shown. Do not over tighten as shown in Note.

Rocket Rider

Note: Only tighten lock nuts allowing a Max. of 2 threads extending past the bottom of the nut.