



AMERICA'S BEST VALUE IN SWING SETS.™

# 7.0 Bengal Fort Install Manual for Double Decker

Version 8.15



## Tools Needed for Assembly

Tape Measure	24" Level	Angle Square
Phillips Screw Driver	3/8" Cordless Drill or Electric Drill	3/8" Drive Ratchet or Electric Impact Gun
Claw Hammer or Rubber Mallet	Pliers or Vise Grips	7/16" Deep Well Socket
9/16" Deep Well Socket	3/4" Deep Well Socket	1/8", 1/4", and 9/16" Drill Bits
Phillips Head Screw Bits	An Adult with two Adult Helpers	

Please familiarize yourself with the install manual, parts/components and general construction process of your new swing set before getting started. Approximate assembly time: 6 to 8 hours. 6 foot unobstructed safety perimeter around swing set recommended.

## Choosing A Location For Your Playset

When choosing a location for your swing set, always keep your child or children's safety in mind. Here are some recommendations to help you locate and install a safe play area.

- This play set is designed for the use of 4 occupants who have a combined weight not exceeding 800 pounds on the elevated floor; 3 occupants who have a combined weight of 525 pounds on the swing area; for a total Unit capacity of 5 occupants who have a combined weight of 1325. (this weight is not including the picnic table area)
- On-site adult supervision is required.
- The swing set should be located on level ground. The stationary components such as ladders and slides are required to be a minimum of six feet from any structure or obstruction such as a fence, garage, house, tree, overhanging branches, electrical wires, clotheslines, etc. Any swinging equipment is also required to be a minimum distance twice the height of the swing beam away from these obstructions or structures as well. The swing set should be located a safe distance from any water hazards, such as a lake, river, bayou, swimming pool, etc.
- Do not install this residential swing set in a commercial setting. This swing set is not manufactured for commercial usage and will void all warranties. Tree Frogs Wooden Swing Set Factory is not responsible for any damages or injuries resulting from this swing set being used in a commercial setting.
- Never install this swing set indoors; or over concrete, asphalt, packed earth, grass, carpet or any other hard surface. A fall onto a hard surface can result in serious or fatal injury.
- The U.S. Consumer Product Safety Commission (CPSC) recommends that you install and maintain a resilient surface under your swing set. The CPSC's Consumer Information Sheet for Playground Surfacing Materials is on the next page. A resilient surface, should be installed after the swing set has been completely assembled according to these instructions. The swing set must rest on solid ground. Please note that this swing set has a maximum fall height of 7'.

## Maintaining Your Swing Set

Here are some maintenance tips required to insure safe play on your swing set for years of fun.

- At the beginning of each usage season and every two weeks during, check: nuts and bolts and tighten as needed, swing seats, chains, ladders, slides, rope and wood components for sign of deterioration and replace if necessary.
- On a yearly basis, we recommend that you coat your swing set with a sealant or preservative. You may also want to spot sand any areas prior to sealing.

**\*\* Special note:** Although we recommend that you reseal your swing set annually, you may have to touch up the high traffic areas and/or areas that have a high exposure to direct sunlight.\*\*

- Be sure that the sealant you select is non-toxic and child safe. Your local Tree Frogs Wooden Swing Set Factory dealer may offer a complete power wash and reseal and maintenance program.
- Do not use line trimmers or "weed eaters" around your swing set. The line will remove both paint and wood from uprights and base pieces. Any damage resulting from this type of abuse is not covered under our limited warranty.
- Remove plastic swing seats and take in doors or do not use when temperature drops below 0°F.

## Weight Limits for Tree Frogs Swing Sets

Fort Platform: 800 Lbs. Total Weight

Swing Belts: 175 Lbs.

Trapeze: 125 Lbs.

Full Bucket Swing: 50 Lbs.

Toddler Bucket Swing: 50 Lbs.

Tire Swing: 125 Lbs. Total Weight

Rope Ladder: 75 Lbs.

Rock Wall: 150 Lbs.

All Slides: 125 Lbs.

Tree Frogs recommends that the weight limits for all components must not be exceeded. Failure to adhere to these and other safety guidelines could result in damage to the swing set and/or injury to the users.

**Please keep this install manual for future reference.**

## To insure SAFE PLAY adults must teach children:

- Not to walk close to, in front of, behind, or between moving items.
- Not to swing empty swing seats.
- Not to swing sideways into the path of adjacent swings.
- Not to use the swing set in a manner other than that for which it is intended.
- Not to get off the equipment while it is in motion.
- Not to jump off the tower.
- Not to stand in the swing seats.
- Not to swing so high that chains become slack, or above the height of the swing support.
- Not to jump on a slide.
- Not to climb on top of the swing support.
- Not to attach to the swing set any item that is not specifically designed for use with the equipment, such as (but not limited to) jump ropes, clotheslines, pet leashes, cables, and chains. These may become strangulation hazards.
- To hold on to swings and climbers with both hands.
- To slide feet first, never head first.
- To watch for other children while swinging or playing near the swing set.

## To also insure SAFE PLAY adults must:

- Limit climbing and swinging heights to each child's ability.
- Verify that suspended climbing ropes are secured at both ends.
- Verify that suspended climbing ropes cannot be looped back on themselves.
- Dress children appropriately for play. Use well-fitted shoes that do not have slippery soles.
- Avoid ponchos, scarves, hoods, loose fitting clothing, neckties, and any clothing with a drawstring. Serious injury could result should any part of the children's clothing become entangled in the swing set.
- Do not allow children to play wearing helmets.
- Remember that children are inventive. When they develop games that are unsafe, be alert and change the rules.

## IMPORTANT - PLEASE READ

As fresh lumber acclimates to its new environment, the natural tendencies of the tree can show itself in the form of checks, or "cracks" in the lumber. In almost all cases this is normal and it will not affect the structural integrity of your play set.

Cosmetic defects that do not affect the structural integrity of the product, or natural defects of wood such as warping, checking or any other physical properties of wood that do not present a safety hazard, are not covered by this warranty.

Defects that develop because the product is exposed to extreme climate conditions are not covered by this warranty.

Defects that develop as a result of faulty or improper installation of the product are also not covered by this warranty.

Most cracks are not warrantable, however if you believe that the integrity of your play set is compromised by this natural occurrence, please contact the Tree Frogs Swing Set Dealer that you purchased your swing set from.

We appreciate your purchase and know that you will enjoy your play system for many years to come.

## Pre-Assembly Hints

- Depending on your experience, assembly of our play sets can take as little as 6 hours up to 24 hours, depending on size, after inventory of parts; therefore, we recommend you set aside a full two days for assembly.
- Identify all of the parts for your play set. Empty each box and lay out boards so you can see each part. Your instruction book will have detailed drawings that will make it easy for you to recognize individual parts. Keep all hardware and metal parts separate from wooden pieces.
- After everything is laid out, check carefully to ensure all parts are present. Make sure there are no broken boards.
- Find an area to sort your hardware. It is best to open the hardware on a solid surface so that you do not lose any pieces in the grass. This will save time and familiarize you with all the different pieces in the hardware bag.

**\*\*Important note:** Wood has some natural defects such as knots, surface cracks, etc... We reject parts that are structurally defective. We use a high quality lumber in our structures; however, you should inspect each part for splinters or rough spots and sand them smooth to prevent injury.\*\*

- After familiarizing yourself with all of the components, read all instructions thoroughly. Reading instructions after you have studied the parts will help you understand more clearly the installation process, and help to eliminate unnecessary mistakes.
- Pay close attention to the diameter and length of each bolt and screw.
- Never tighten hardware completely at first. It helps to have some adjustment for bolt alignment while you are attaching parts together. After everything is square, tighten each joint.
- After the main unit is assembled it is critical that the floor is level and square. If the main frame is not level, the walls and floor will be out of square.
- After you complete installation, make sure every bolt, screw, and nut is tight, and every board is secure. Wood will expand and contract with the seasons.
- Place the set on level ground, not less than 6ft from any structure or obstruction such as a fence, garage, house, overhanging branches, laundry lines, or electrical wires.
- All 1/4" and 3/8" lag bolts must have pre-drilled holes 1-1/2" to 2" deep. Use a 1/8" drill bit for the 1/4" lag bolts and 1/4" drill bit for 3/8" lag bolts. Use pre-drilled holes in facias as a reference for placing lag bolt pilot holes.
- If a board lifts or rises causing a gap between boards when running in lag bolts or screws, back out the screw or lag bolt and press or apply pressure (but not enough to crack or break board) while re-running in the lag bolt or screw in the same hole.
- Do not over tighten bolts, lag bolts or screws. You can damage boards, break hardware, and/or strip out the hardware.
- When using hammer do not beat on the hardware, but gently tap it in. Never beat on the wood as it will leave marks.

## Leveling Your Swing Set During Assembly

- Complete the steps which will be the basic frame of the fort {i.e. four corner posts with base (sand box boards) and deck supports}
- Position in the most level area chosen for the play set, keeping in mind the location and size of the swing beam, ladder, slides, etc. that extend off the fort.
- Once the frame is in the final position, check for vertical and horizontal levelness to determine which side(s) will need to be dug into the ground to level the play set.
- With a shovel, score the ground around the outside edges of the sandbox boards on the 'high' side of the fort. This is the area that will be dug in. Make sure to score deep enough; the scored lines will be your digging template.
- Push the frame off and away from the scored area, far enough to dig and remove dirt to reach the appropriate depth.
- Dig a channel along the scored line(s) for the base of the fort (corner post and sandbox boards) to rest into. Dig the channel(s) to the same level depth. The bottom of the channel(s) should be level to each other so your frame doesn't teeter or rock because the channel(s) are uneven.
- Once you have removed enough grass and dirt, slide/push the frame into the channel(s). Place a level on the vertical and horizontal boards of the frame to determine if enough soil, or too much, was removed.
- Repeat this process until the basic frame is plumb and level and in its final position before completing the rest of the assembly.
- Measure to make sure fort is square.

**\*\* Important:** if you require a channel depth of more than 6",  
then we recommend you have your play set area professionally graded before completing assembly. \*\*



## CONSUMER INFORMATION SHEET FOR PLAYGROUND SURFACING MATERIALS

The U.S. Consumer Product Safety Commission (CPSC) estimates that about 100,000 playground equipment related injuries resulting from falls to the ground surface are treated annually in U.S. hospital emergency rooms. Injuries involving this hazard pattern tend to be among the most serious of all playground injuries, and have the potential to be fatal, particularly when the injury is to the head. The surface under and around playground equipment can be a major factor in determining the injury-causing potential of a fall. It is self-evident that a fall onto a shock-absorbing surface is less likely to cause a serious injury than a fall onto a hard surface. However, it should be recognized that some injuries from falls will occur no matter what playground surfacing material is used.

Playground equipment should never be placed on hard surfaces such as concrete or asphalt. Grass may appear to be acceptable, but can turn to hard packed earth in areas of high traffic. Shredded bark mulch, wood chips, or fine gravel are considered to be acceptable shock absorbing surfaces when installed and maintained at a sufficient depth under and around play equipment.

TABLE 1 -CRITICAL HEIGHTS (in feet) OF TESTED MATERIAL

MATERIAL	UNCOMPRESSED DEPTH			COMPRESSED DEPTH
	6 Inch	9 Inch	12 Inch	9 inch
Wood Chips	7	10	11	10
Double Shredded Bark Mulch	6	10	11	7
Engineered Wood Fibers	6	7	>12	6
Fine Sand	5	5	9	5
Coarse Sand	5	5	6	4
Fine Gravel	6	7	10	6
Medium Gravel	5	5	6	5
Shredded Tires**	10-12	N/A	N/A	N/A

\*\* This is data from tests conducted by independent testing laboratories on a 6 inch depth of uncompressed shredded tire samples produced by four manufacturers. The test reported critical heights, which varied from 10 feet to greater than 12 feet. It is recommended that persons seeking to install shredded tires as a protective surface request test data from the supplier showing the critical height of the material when it was tested in accordance with ASTM F1292.

Table 1 should be read as follows: If, for example, uncompressed wood chips are used at a minimum of 6 inches, the Critical Height is 7 feet. If 9 inches of uncompressed wood chips are used, the Critical Height is 10 feet. It should be noted that, for some materials, the Critical Height decreases when the material is compressed. It is recommended that a shock absorbing material should extend a minimum of 6 feet in all directions from the perimeter of stationary equipment such as climbers and slides. However, because children may deliberately jump from a moving swing, the shock absorbing material should extend in the front and rear of a swing a minimum distance of 2 times the height of the pivot point measured from a point directly beneath the pivot on the supporting structure.

This information is intended to assist in comparing the relative shock-absorbing properties of various materials. No particular material is recommended over another. However, each material is only effective when properly maintained. Materials should be checked periodically and replenished to maintain correct depth as determined necessary for your equipment. The choice of a material depends on the type and height of the playground equipment, the availability in your area, and its cost.

This information has been extracted from the CPSC publications "Playground Surfacing-Technical Information Guide" and "Handbook for Public Playground Safety." Copies of these reports can be obtained by sending a postcard to:

Office of Public Affairs  
U.S. Consumer Product Safety Commission  
Washington, D.C. 20207  
Toll-free Hotline: 1-800-638-2772 or at <http://www.cpsc.gov>

## Bengal Fort- Universal Bundle

Item No.	Part No.	Part Description	QTY.
BFU-1	13-4-00076	UNIVERSAL FORT 4- HOLE FACIA	7
BFU-2	17-4-00157	UNIVERSAL FORT MAINBEAM	2
BFU-3	16-4-00285	UNIVERSAL FORT TOP JOIST SB	1
BFU-4	16-4-00283	UNIVERSAL FORT TRAPEZE ARM	1
BFU-5	16-4-00216	LEFT GUSSET BRACKET	3
BFU-6	16-4-00217	RIGHT GUSSET BRACKET	3
BFU-7	13-4-00077	UNIVERSAL FORT 8- HOLE FACIA	2
BFU-8	16-4-00214	UNIVERSAL FORT CENTER UPRIGHT	2
BFU-9	13-4-00068	UNIVERSAL 6- HOLE FACIA	2
BFU-10	12-4-00141	UNIVERSAL RAIL BOTTOM	4

## 7.0 Bengal Fort Double Decker Bundle C.

BDC-1	13-4-00076	UNIVERSAL FORT 4- HOLE FACIA	4
BDC-2	16-4-00301	136" FORT CORNER POST	4
BDC-3	17-4-00157	UNIVERSAL FORT MAINBEAM	2
BDC-4	16-4-00216	LEFT GUSSET BRACKET	2
BDC-5	16-4-00217	RIGHT GUSSET BRACKET	2
BDC-6	16-4-00329	FORT DOUBLE DECKER CORNER POST	2
BDC-7	13-4-00077	UNI. FORT 8- HOLE FACIA	2
BDC-8	16-4-00298	UNI. FORT TOP JOIST	1
BDC-9	16-4-00214	UNI. FORT CENTER UPRIGHT	1
BDC-10	13-4-00068	UNI. 6-HOLE FACIA	2
BDC-11	12-4-00191	DOUBLE DECKER RAIL BOTTOM	2
BDC-12	12-4-00190	DOUBLE DECKER RAIL TOP	1
BDC-13	15-4-00011	DOUBLE DECKER RAIL SPINDLES	13
BDC-14	16-4-00286	80" FORT LEFT LADDER LEG	1
BDC-15	16-4-00287	80" FORT RIGHT LADDER LEG	1
BDC-16	13-4-00079	UNI. FORT LADDER STEP	5

## Universal Deck Bundle (2 Sets)

UDB-1	12-4-00139	SMALL DECK BOARD	16
UDB-2	13-4-00064	LARGE DECK BOARD	12
UDB-3	12-4-00138	UNIVERSAL DECK RUNNER	8
UDB-4	13-4-00063	UNIVERSAL DECK SUPPORT	4

## Bengal Fort Tarp Bundle

Item No.	Part No.	Part Description	QTY.
BTB-1	16-4-00284	UNIVERSAL FORT CENTER POST	2
BTB-2	12-4-00145	UNIVERSAL TARP BOARD	3

## Bengal Fort Double Decker Tarp Bundle

DTB-1	16-4-00311	FORT DOUBLE DECKER CENTER POST	2
DTB-2	12-4-00145	UNIVERSAL TARP BOARD	3

## 7.0 Fort Rockwall Bundle

RW-1	16-4-00308	107 1/2" FORT LEFT RW LADDER LEG	1
RW-2	16-4-00307	107 1/2" FORT RIGHT RW LADDER LEG	1
RW-3	11-4-00138	UNI. FORT RW BOARD W/ ROPE HOLE	1
RW-4	11-4-00139	UNI. FORT RW BOARD BLANK	6
RW-5	11-4-00140	UNI. FORT RW BOARD W/ ROCK HOLES	10
RW-6	10-4-00266	UNI. FORT RW BOARD- SLIM	1
RW-7	16-4-00215	UNIVERSAL ROPE BLOCK	1
RW-8	16-4-00218	UNIVERSAL ENTRAPMENT BLOCK	2

## Fort Picnic Table Bundle

PIC-1	12-4-00139	UNIVERSAL DECK BOARD- SLIM	1
PIC-2	12-4-00180	UNI. FORT PICNIC TABLE SUPPORTS	4
PIC-3	12-4-00181	UNI. FORT PICNIC TABLE BOARD	4
PIC-4	12-4-00182	UNI. FORT PICNIC TABLE RUNNER	2
PIC-5	12-4-00183	UNI. FORT PICNIC TABLE RUNNER NO HOLES	1
PIC-6	12-4-00184	UNI. FORT PICNIC TABLE SEAT RUNNER	4
PIC-7	12-4-00185	UNI. FORT PICNIC SEAT RUNNER NO HOLES	2
PIC-8	13-4-00080	UNI. FORT PICNIC TABLE BOARD- WIDE	7

## Universal Rail Bundle (Count Per Rail)

RAIL-1	12-4-00140	UNIVERSAL RAIL TOP	1
RAIL-2	12-4-00141	UNIVERSAL RAIL BOTTOM	1
RAIL-3	15-4-00008	UNIVERSAL RAIL SPINDLE	5

## Bengal Fort Wood Roof Bundle

Item No.	Part No.	Part Description	QTY.
WRB-1	12-4-00206	BENGAL FORT WR SUPPORT (RIGHT)	2
WRB-2	12-4-00207	BENGAL FORT WR SUPPORT (LEFT)	2
WRB-3	10-4-00331	BENGAL FORT WR CENTER SUPPORT	2
WRB-4	19-4-00084	BENGAL FORT WOOD ROOF BOARD	20
WRB-5	10-4-00332	BENGAL FORT FAN BOARD #1	2
WRB-6	10-4-00333	BENGAL FORT FAN BOARD #2	4
WRB-7	10-4-00334	BENGAL FORT FAN BOARD #3	2
WRB-8	11-4-00174	BENGAL FORT FAN BOARD #4	2
WRB-9	20-4-00007	UNIVERSAL WR PEAK FACIA	2
WRB-10	16-4-00290	UNI. FORT WOOD ROOF CENTER POST	2

## Double Decker Wood Roof Bundle

DWR-1	12-4-00206	BENGAL FORT WR SUPPORT (RIGHT)	2
DWR-2	12-4-00207	BENGAL FORT WR SUPPORT (LEFT)	2
DWR-3	10-4-00331	BENGAL FORT WR CENTER SUPPORT	1
DWR-4	10-4-00335	DD WOOD ROOF CENTER SUPPORT	1
DWR-5	19-4-00084	BENGAL FORT WR BOARD	17
DWR-6	10-4-00332	BENGAL FORT FAN BOARD #1	2
DWR-7	10-4-00333	BENGAL FORT FAN BOARD #2	4
DWR-8	10-4-00334	BENGAL FORT FAN BOARD #3	2
DWR-9	11-4-00174	BENGAL FORT FAN BOARD #4	2
DWR-10	20-4-00007	UNIVERSAL WR PEAK FACIA	2
DWR-11	16-4-00290	UNI. FORT WOOD ROOF CENTER POST	2

## Bengal Fort Standard Box

Item No.	Part No.	Part Description	QTY.
STB-1	59-1-00013	TREEFROGS PLAQUE	1
STB-2	57-2-00004	1 1/4" PLAYGRIP SAFETY HANDLE	5
STB-3	57-2-00005	1 1/4" PLAYGRIP LADDER HANDLE	2
STB-4	56-1-00012	DUCTILE IRON SWING HANGER	2
STB-5	59-1-00011	SPRING CLIPS- 10 X 100MM	2
STB-6	58-1-00013	FORT LADDER BRACKET	1

## Bengal Fort Double Decker Box (Color Depend on Package)

DDB-1	37-1-00018	19" SHIP'S WHEEL	1
DDB-2	37-1-00020	BINOCULARS	1
DDB-3	37-1-00021	TELESCOPE	1
DDB-4	60-1-00006	20" TRAPEZE BAR W/ RINGS	1

## Bengal Fort Hardware Bag

BFH-1	40-1-00001	3/8" ACORN NUT PLATED	4
BFH-2	40-1-00002	1/2" ACORN NUT PLATED	12
BFH-3	40-1-00013	1/2" X 7" CARRIAGE BOLT	12
BFH-4	41-1-00025	3/8" BOLT CUP	4
BFH-5	40-1-00028	1/2" HEX NUT	12
BFH-6	40-1-00043	3/8" X 5" HEX BOLT	4
BFH-7	40-1-00054	1/4" X 2" HEX LAG SCREW	12
BFH-8	40-1-00055	1/4" X 3" HEX LAG SCREW	20
BFH-9	40-1-00056	1/4" X 4 1/2" HEX LAG SCREW	26
BFH-10	40-1-00059	3/8" X 3 1/2" HEX LAG SCREW	70
BFH-11	40-1-00061	3/8" X 5" HEX LAG SCREW	2
BFH-12	40-1-00064	3/8" NYLON INSERT LOCKNUT	4
BFH-13	40-1-00069	#14 X 1 1/4" PAN PHILLIPS T/S	2
BFH-14	40-1-00073	3/8" SPLIT LOCKWASHER	4
BFH-15	40-1-00074	1/2" SPLIT LOCKWASHER	12
BFH-16	40-1-00081	1/4" USS FLATWASHER	75
BFH-17	40-1-00082	3/8" USS FLATWASHER	76
BFH-18	40-1-00083	1/2" USS FLATWASHER	12
BFH-19	40-1-00084	3/4" USS FLATWASHER	12
BFH-20	40-1-00070	#14 X 2" PAN PHILLIPS T/S	17

## Ben. Fort Double Decker Hdwr. Bag

Item No.	Part No.	Part Description	QTY.
DDH-1	40-1-00002	1/2" ACORN NUT PLATED	8
DDH-2	40-1-00013	1/2" X 7" CARRIAGE BOLT	8
DDH-3	40-1-00028	1/2" HEX NUT	8
DDH-4	40-1-00054	1/4" X 2" HEX LAG SCREW	8
DDH-5	40-1-00055	1/4" X 3" HEX LAG SCREW	20
DDH-6	40-1-00056	1/4" X 4 1/2" HEX LAG SCREW	44
DDH-7	40-1-00059	3/8" X 3 1/2" HEX LAG SCREW	38
DDH-8	40-1-00061	3/8" X 5" HEX LAG SCREW	6
DDH-9	40-1-00070	#14 X 2" PAN PHILLIPS T/S	7
DDH-10	40-1-00074	1/2" SPLIT LOCKWASHER	8
DDH-11	40-1-00081	1/4" USS FLATWASHER	75
DDH-12	40-1-00082	3/8" USS FLATWASHER	42
DDH-13	40-1-00083	1/2" SPLIT LOCKWASHER	8
DDH-14	40-1-00084	3/4" USS FLATWASHER	8

## Universal Deck Hardware Bundle (Count per Deck Bundle)

UDH-1	40-1-00022	2 1/2" COATED DECK SCREW	84
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## Double Decker Rail Hdwr.

DRH-1	40-1-00022	2 1/2" COATED DECK SCREW	52
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## Universal Rail Hdwr. (Count Per Rail)

RH-1	40-1-00022	2 1/2" COATED DECK SCREW	20
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## Fort Picnic Table Hdwr. Bag

PH-1	40-1-00022	2 1/2" COATED DECK SCREW	78
PH-2	40-1-00056	1/4" X 4 1/2" HEX LAG SCREW	12
PH-3	40-1-00059	3/8" X 3 1/2" HEX LAG SCREW	8
PH-4	40-1-00081	1/4" USS FLATWASHER	12
PH-5	40-1-00082	3/8" USS FLATWASHER	8

## 7.0 Fort Rockwall Hardware

Item No.	Part No.	Part Description	QTY.
RWH-1	40-1-00067	1/4" X 1 1/4" PAN PHILLIPS M/S	40
RWH-2	40-1-00077	1/4" X 7/16" 4 PRONG T-NUT	40
RWH-3	40-1-00081	1/4" USS FLATWASHER	40
RWH-4	40-1-00061	3/8" X 5" HEX LAG SCREW	8
RWH-5	40-1-00082	3/8" USS FLATWASHER	8
RWH-6	40-1-00022	2 1/2" COATED DECK SCREW	72

## Bengal Fort WR Hardware Bag

BRH-1	40-1-00082	3/8" USS FLATWASHER	4
BRH-2	40-1-00083	1/2" USS FLATWASHER	4
BRH-3	40-1-00081	1/4" USS FLATWASHER	16
BRH-4	40-1-00055	1/4" X 3" HEX LAG SCREW	16
BRH-5	40-1-00020	1 5/8" COATED DECK SCREWS	130
BRH-6	40-1-00022	2 1/2" COATED DECK SCREWS	12
BRH-7	40-1-00115	3/8" X 5 1/2" CARRIAGE BOLT	4
BRH-8	40-1-00073	3/8" SPLIT LOCKWASHER	4
BRH-9	40-1-00026	3/8" HEX NUT	4
BRH-10	40-1-00001	3/8" ACORN NUT PLATED	4

## Double Decker WR Hardware Bag

DWH-1	40-1-00082	3/8" USS FLATWASHER	4
DWH-2	40-1-00059	3/8" X 3 1/2" HEX LAG SCREW	2
DWH-3	40-1-00083	1/2" USS FLATWASHER	2
DWH-4	40-1-00081	1/4" USS FLATWASHER	14
DWH-5	40-1-00056	1/4" X 4 1/2" HEX LAG SCREW	14
DWH-6	40-1-00020	1 5/8" COATED DECK SCREW	121
DWH-7	40-1-00022	2 1/2" COATED DECK SCREW	8
DWH-8	40-1-00115	3/8" X 5 1/2" CARRIAGE BOLT	2
DWH-9	40-1-00073	3/8" SPLIT LOCKWASHER	2
DWH-10	40-1-00026	3/8" HEX NUT	2
DWH-11	40-1-00001	3/8" ACORN NUT PLATED	2

# Bengal Fort- Universal Bundle

BFU-1  
Universal Fort 4- Hole Facia  
QTY. 7



BFU-2  
Universal Fort Mainbeam  
QTY. 2



BFU-3  
Universal Fort Top Joist SB  
QTY. 1



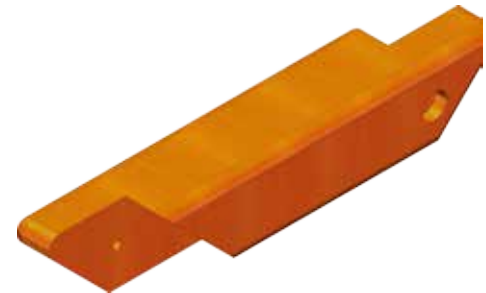
BFU-4  
Universal Fort Trapeze Arm  
QTY. 1



BFU-5  
Left Gusset Bracket  
QTY. 3



BFU-6  
Right Gusset Bracket  
QTY. 3



BFU-7  
Universal Fort 8- Hole Facia  
QTY. 2



BFU-8  
Universal Fort Center Upright  
QTY. 2



BFU-9  
Universal 6- Hole Facia  
QTY. 2





## Bengal Fort- Universal Bundle

BFU-10  
Universal Rail Bottom  
QTY. 4



## 7.0 Bengal Fort Double Decker Bundle C.

BDC-1  
Universal Fort 4- Hole Facia  
QTY. 4



BDC-2  
136" Fort Corner Post  
QTY. 4

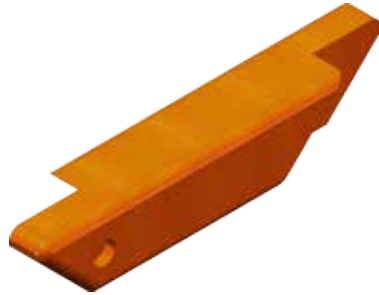


BDC-3  
Universal Fort Mainbeam  
QTY. 2

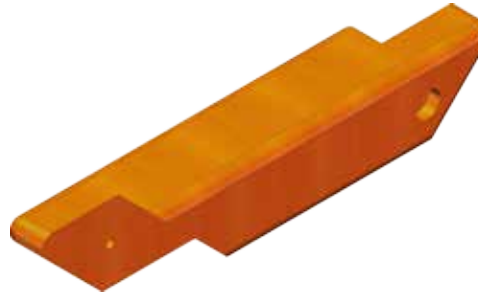


## 7.0 Bengal Fort Double Decker Bundle C.

BDC-4  
Left Gusset Bracket  
QTY. 2



BDC-5  
Right Gusset Bracket  
QTY. 2



BDC-6  
Fort Double Decker Corner Post  
QTY. 2



BDC-7  
Uni. Fort 8- Hole Facia  
QTY. 2



BDC-8  
Uni. Fort Top Joist  
QTY. 1



BDC-9  
Uni. Fort Center Upright  
QTY. 1



BDC-10  
Uni. Fort 6- Hole Facia  
QTY. 1



BDC-11  
Double Decker Rail Bottom  
QTY. 2



BDC-12  
Double Decker Rail Top  
QTY. 1

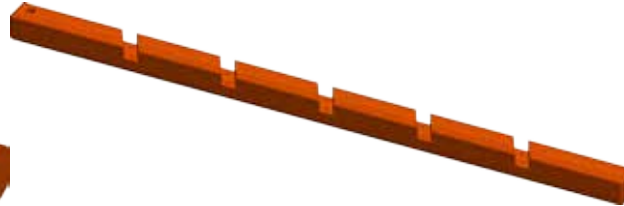


## 7.0 Bengal Fort Double Decker Bundle C.

BDC-13  
Double Decker Rail Spindles  
QTY. 13



BDC-14  
80" Fort Left Ladder Leg  
QTY. 1



BDC-15  
80" Fort Right Ladder Leg  
QTY. 1



BDC-16  
Uni. Fort Ladder Step  
QTY. 5



### Universal Deck Bundle (2 Set QTY.)

UDB-1  
Small Deck Board  
QTY. 16



UDB-2  
Large Deck Board  
QTY. 12



UDB-3  
Universal Deck Runner  
QTY. 8



UDB-4  
Universal Deck Support  
QTY. 4



## Bengal Fort Tarp Bundle

BTB-1  
Universal Fort Center Post  
QTT. 2



BTB-2  
Universal Tarp Board  
QTY. 3



## Bengal Fort Double Decker Tarp Bundle

DTB-1  
Fort Double Decker Center Post  
QTY. 2



DTB-2  
Universal Tarp Board  
QTY. 3



## 7.0 Fort Rockwall Bundle

RW-1  
107 1/2" Fort Left RW Ladder Leg  
QTY. 1



RW-2  
107 1/2" Fort Right RW Ladder Leg  
QTY. 1



RW-3  
Uni. Fort RW Board w/ Rope Hole  
QTY. 1



RW-4  
Uni. Fort RW Board Blank  
QTY. 6



RW-5  
Uni. Fort RW Board w/ Rock Holes  
QTY. 10



RW-6  
Uni. Fort RW Board-Slim  
QTY. 1



RW-7  
Universal Rope BLock  
QTY. 1



RW-8  
Uni. Entrapment Block  
QTY. 2



# Fort Picnic Table Bundle

PIC-1  
Universal Deck Board- Slim  
QTY.



PIC-2  
Uni. Fort Picnic Table Supports  
QTY. 4



PIC-3  
Uni. Fort Picnic Table Board  
QTY. 4



PIC-4  
Uni. Fort Picnic Table Runner  
QTY. 2



PIC-5  
Uni. Fort Picnic Table Runner No Holes  
QTY. 1



PIC-6  
Uni. Fort Picnic Table Seat Runner  
QTY. 4



PIC-7  
Uni. Fort Picnic Seat Runner No Holes  
QTY. 2



PIC-8  
Uni. Fort Picnic Table Board-Wide  
QTY. 7



# Universal Rail Bundle (Count Per Rail)

RAIL-1  
Universal Rail Top  
QTY. 1



RAIL-2  
Universal Rail Bottom  
QTY. 1



RAIL-3  
Universal Rail Spindle  
QTY. 5



# Bengal Fort Wood Roof Bundle

WRB-1  
Bengal Fort WR Support (R)  
QTY. 2



WRB-2  
Bengal Fort WR Support (L)  
QTY. 2



WRB-3  
Bengal Fort WR Center Support  
QTY. 2



WRB-4  
Bengal Fort WR Board  
QTY. 20



WRB-5  
Bengal Fort Fan Board #1  
QTY. 2



WRB-6  
Bengal Fort Fan Board #2  
QTY. 4



WRB-7  
Bengal Fort Fan Board #3  
QTY. 2



WRB-8  
Bengal Fort Fan Board #4  
QTY. 4



WRB-9  
Universal WR Peak Facia  
QTY. 2





## Bengal Fort Wood Roof Bundle

WRB-10  
Uni. Fort WR Center Post  
QTY. 2



## Double Decker Wood Roof Bundle

DWR-1  
Bengal Fort WR Support (R)  
QTY. 2



DWR-2  
Bengal Fort WR Support (L)  
QTY. 2



DWR-3  
Bengal Fort WR Center Support  
QTY. 1



DWR-4  
DD WR Center Support  
QTY. 1

DWR-5  
Bengal Fort WR Board  
QTY. 17

DWR-6  
Bengal Fort Fan Board #1  
QTY. 2



DWR-7  
Bengal Fort Fan Board #2  
QTY. 4

DWR-8  
Bengal Fort Fan Board #3  
QTY. 2

DWR-9  
Bengal Fort Fan Board #4  
QTY. 2



DWR-10  
Universal WR Peak Facia  
QTY. 2

DWR-11  
Uni. Fort WR Center Post  
QTY. 2

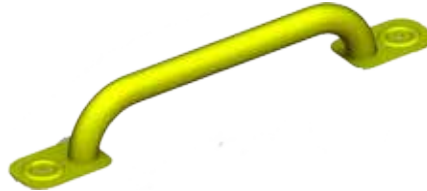


# Bengal Fort Standard Box (Color Depends on Package)

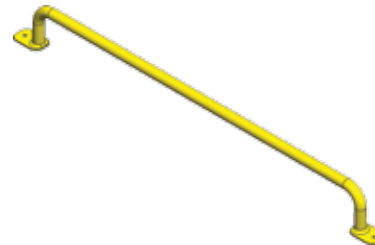
STB-1  
Treefrogs Plaque  
QTY. 1



STB-2  
1 1/4" Playgrip Safety Handle  
QTY. 5



STB-3  
1 1/4" Playgrip Ladder Handles  
QTY. 2



STB-4  
Ductile Iron Swing Hanger  
QTY. 2



STB-5  
Spring Clips 10 x 100mm  
QTY. 2



STB-6  
Fort Ladder Bracket  
QTY. 1



# Bengal Fort Double Decker Box (Color Depends on Package)

DDB-1  
19" Ship's Wheel  
QTY. 1



DDB-2  
Binoculars  
QTY. 1



DDB-3  
Telescope  
QTY. 1



DDB-4  
20" Trapeze Bar W/ Rings  
QTY. 1



# BENGAL FORT HARDWARE BAG

INSTALLER NOTE: (YOU MUST ASSEMBLE THIS PRODUCT IN ACCORDANCE WITH THESE ASSEMBLY INSTRUCTIONS. WHEN COMPLETE GIVE MANUAL TO OWNER.)

BFH-1

3/8" Acorn Nut Plated  
QTY. 4



BFH-2

1/2" Acorn Nut Plated  
QTY. 12



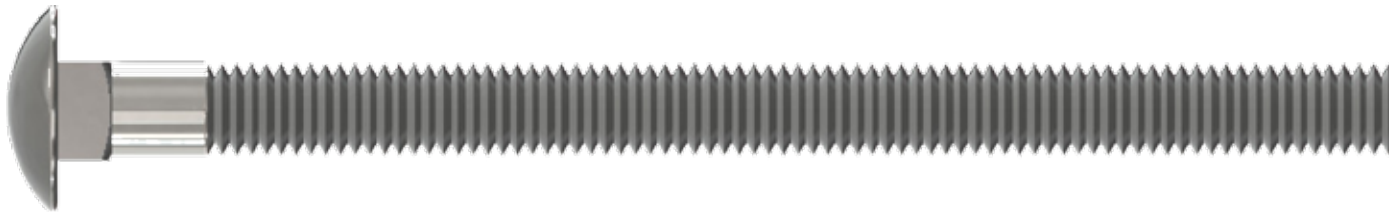
BFH-5

1/2" Hex Nut  
QTY. 12



BFH-3

1/2" x 7" Carriage Bolt  
QTY. 12



BFH-4

3/8" Bolt Cup  
QTY. 4

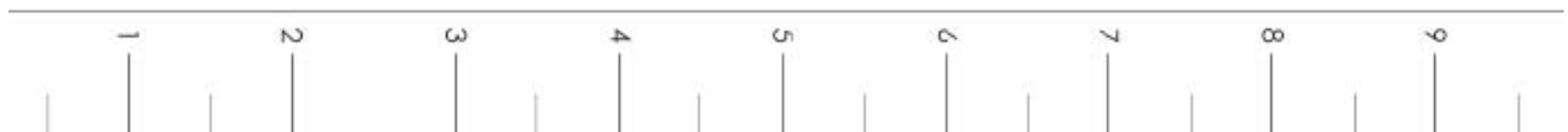


BFH-6

3/8" x 5" Hex Bolt  
QTY. 4



MEASUREMENT TAKEN FROM BOTTOM OF BOLT HEAD TO THE BOTTOM OF BOLT



USE THE RULER TO MEASURE YOUR BOLTS AND SCREWS. HARDWARE VIEWS SHOWN ABOVE ARE 1:1 SCALE AND CAN BE USED TO MATCH HARDWARE SIZES.

# BENGAL FORT HARDWARE BAG

INSTALLER NOTE: (YOU MUST ASSEMBLE THIS PRODUCT IN ACCORDANCE WITH THESE ASSEMBLY INSTRUCTIONS. WHEN COMPLETE GIVE MANUAL TO OWNER.)

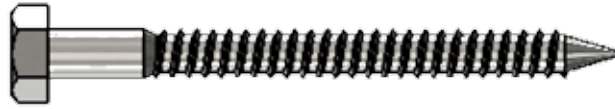
BFH-7

1/4" x 2" Hex Lag Screw  
QTY. 12



BFH-8

1/4" x 3" Hex Lag Screw  
QTY. 20



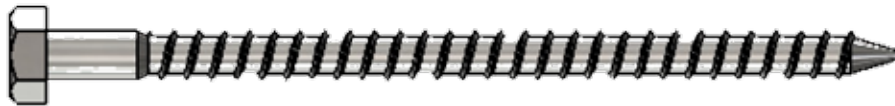
BFH-10

3/8" x 3 1/2" Hex Lag Screw  
QTY. 70



BFH-9

1/4" x 4 1/2" Hex Lag Screw  
QTY. 26



BFH-11

3/8" x 5" Hex Lag Screw  
QTY. 2



BFH-12

3/8" Nylon Locknut  
QTY. 4



BFH-13

#14 x 1 1/4" Pan Phillips T/S  
QTY. 2



BFH-14

3/8" Split Lockwasher  
QTY. 4

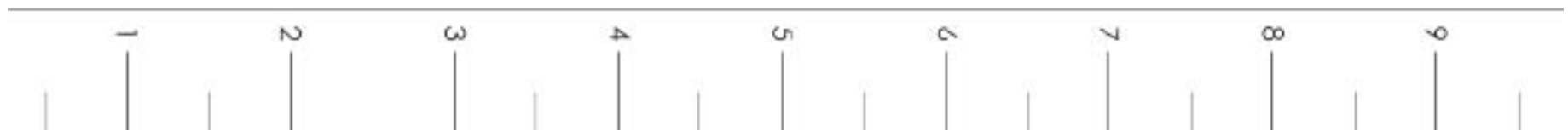


BFH-15

1/2" Split Lockwasher  
QTY. 12



MEASUREMENT TAKEN FROM BOTTOM OF BOLT HEAD TO THE BOTTOM OF BOLT



USE THE RULER TO MEASURE YOUR BOLTS AND SCREWS. HARDWARE VIEWS SHOWN ABOVE ARE 1:1 SCALE AND CAN BE USED TO MATCH HARDWARE SIZES.

## BENGAL FORT HARDWARE BAG

INSTALLER NOTE: (YOU MUST ASSEMBLE THIS PRODUCT IN ACCORDANCE WITH THESE ASSEMBLY INSTRUCTIONS. WHEN COMPLETE GIVE MANUAL TO OWNER.)

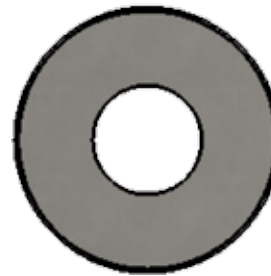
BFH-16  
1/4" USS Flatwasher  
QTY. 75



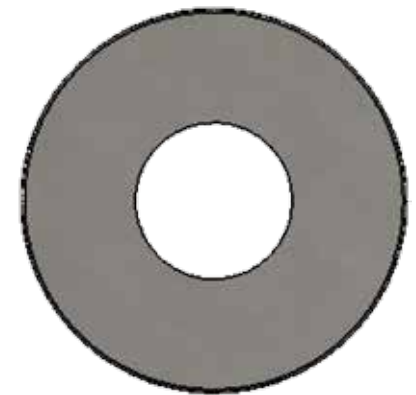
BFH-17  
3/8" USS Flatwasher  
QTY. 76



BFH-18  
1/2" USS Flatwasher  
QTY. 12



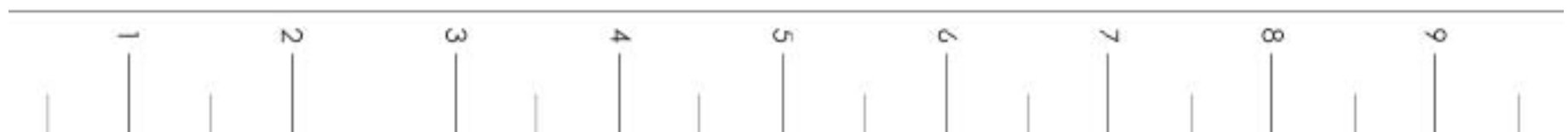
BFH-19  
3/4" USS Flatwasher  
QTY. 12



BFH-20  
#14 x 2" Pan Phillips T/S  
QTY. 4



MEASUREMENT TAKEN FROM BOTTOM OF BOLT HEAD TO THE BOTTOM OF BOLT



USE THE RULER TO MEASURE YOUR BOLTS AND SCREWS. HARDWARE VIEWS SHOWN ABOVE ARE 1:1 SCALE AND CAN BE USED TO MATCH HARDWARE SIZES.

# BEN. FORT DOUBLE DECKER HARDWARE BAG

INSTALLER NOTE: (YOU MUST ASSEMBLE THIS PRODUCT IN ACCORDANCE WITH THESE ASSEMBLY INSTRUCTIONS. WHEN COMPLETE GIVE MANUAL TO OWNER.)

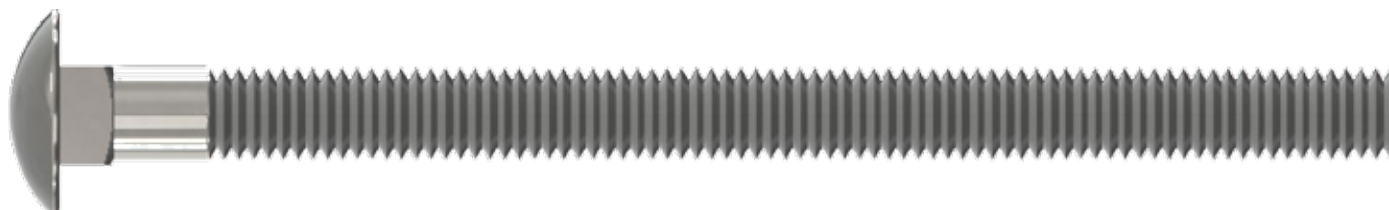
DDH-1

1/2" Acorn Nut Plated  
QTY. 8



DDH-2

1/2" x 7" Carriage Bolt  
QTY. 8



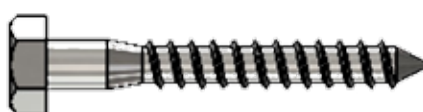
DDH-3

1/2" Hex Nut  
QTY. 8



DDH-4

1/4" x 2" Hex Lag Screw  
QTY. 8



DDH-5

1/4" x 3" Hex Lag Screw  
QTY. 20



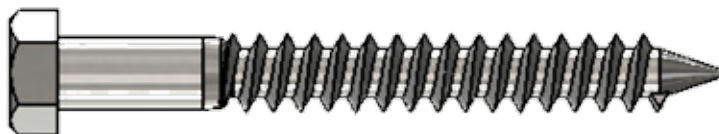
DDH-6

1/4" x 4 1/2" Hex Lag Screw  
QTY. 44



DDH-7

3/8" x 3 1/2" Hex Lag Screw  
QTY. 38



MEASUREMENT TAKEN FROM BOTTOM OF BOLT HEAD TO THE BOTTOM OF BOLT



USE THE RULER TO MEASURE YOUR BOLTS AND SCREWS. HARDWARE VIEWS SHOWN ABOVE ARE 1:1 SCALE AND CAN BE USED TO MATCH HARDWARE SIZES.



# BEN. FORT DOUBLE DECKER HARDWARE BAG

INSTALLER NOTE: (YOU MUST ASSEMBLE THIS PRODUCT IN ACCORDANCE WITH THESE ASSEMBLY INSTRUCTIONS. WHEN COMPLETE GIVE MANUAL TO OWNER.)

DDH-8  
3/8" x 5" Hex Lag Screw  
QTY. 6



DDH-9  
#14 x 2" Pan Phillips T/S  
QTY. 7



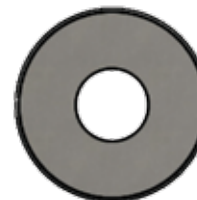
DDH-10  
1/2" Split Lockwasher  
QTY. 8



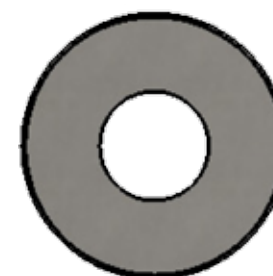
DDH-11  
1/4" USS Flatwasher  
QTY. 75



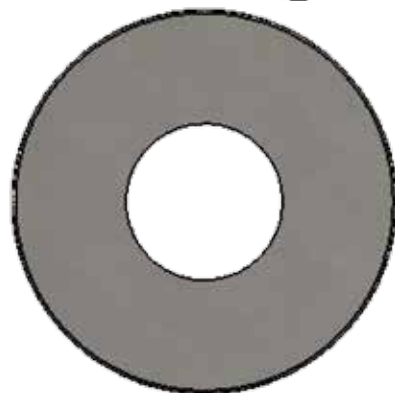
DDH-12  
3/8" USS Flatwasher  
QTY. 42



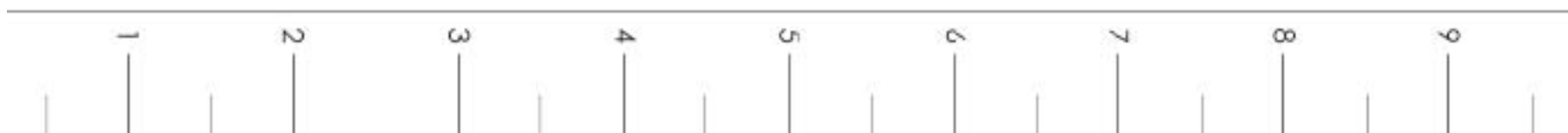
DDH-13  
1/2" USS Flatwasher  
QTY. 8



DDH-14  
3/4" USS Flatwasher  
QTY. 8



MEASUREMENT TAKEN FROM BOTTOM OF BOLT HEAD TO THE BOTTOM OF BOLT

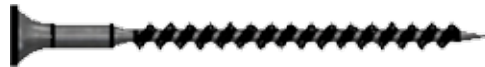


USE THE RULER TO MEASURE YOUR BOLTS AND SCREWS. HARDWARE VIEWS SHOWN ABOVE ARE 1:1 SCALE AND CAN BE USED TO MATCH HARDWARE SIZES.

## DECK & RAIL HARDWARE BAGS

INSTALLER NOTE: (YOU MUST ASSEMBLE THIS PRODUCT IN ACCORDANCE WITH THESE ASSEMBLY INSTRUCTIONS. WHEN COMPLETE GIVE MANUAL TO OWNER.)

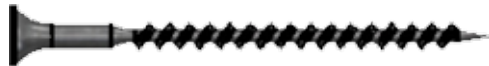
2 1/2" Coated Deck Screw



## FORT PICNIC TABLE HARDWARE BAG

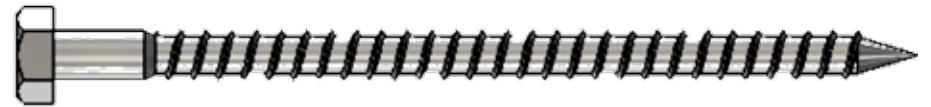
PH-1

2 1/2" Coated Deck Screw  
QTY. 78



PH-2

1/4" x 4 1/2" Hex Lag Screw  
QTY. 12



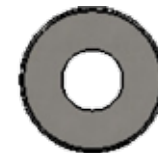
PH-3

3/8" x 3 1/2" Hex Lag Screw  
QTY. 8



PH-4

1/4" USS Flatwasher  
QTY. 12

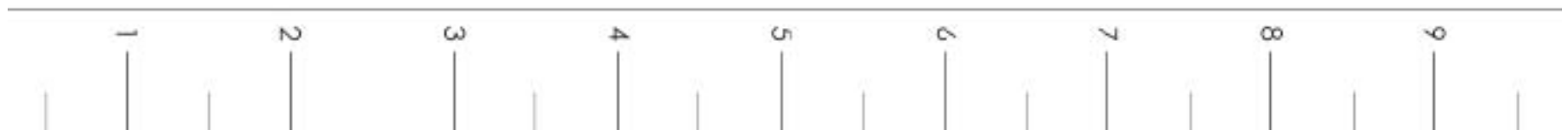


PH-5

3/8" USS Flatwasher  
QTY. 8



MEASUREMENT TAKEN FROM BOTTOM OF BOLT HEAD TO THE BOTTOM OF BOLT



USE THE RULER TO MEASURE YOUR BOLTS AND SCREWS. HARDWARE VIEWS SHOWN ABOVE ARE 1:1 SCALE AND CAN BE USED TO MATCH HARDWARE SIZES.

## 7.0 FORT ROCKWALL HARDWARE BAG

INSTALLER NOTE: (YOU MUST ASSEMBLE THIS PRODUCT IN ACCORDANCE WITH THESE ASSEMBLY INSTRUCTIONS. WHEN COMPLETE GIVE MANUAL TO OWNER.)

RWH-1

1/4" x 1 1/4" Pan Phillips M/S  
QTY. 40



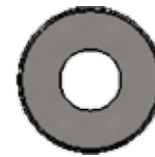
RWH-2

1/4" x 7/16" 4 Prong T-Nut  
QTY. 40



RWH-3

1/4" USS Flatwasher  
QTY. 40



RWH-4

3/8" x 5" Hex Lag Screw  
QTY. 8



RWH-5

3/8" USS Flatwasher  
QTY. 8



RWH-6

2 1/2" Coated Deck Screw  
QTY. 72



MEASUREMENT TAKEN FROM BOTTOM OF BOLT HEAD TO THE BOTTOM OF BOLT



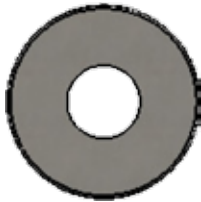
USE THE RULER TO MEASURE YOUR BOLTS AND SCREWS. HARDWARE VIEWS SHOWN ABOVE ARE 1:1 SCALE AND CAN BE USED TO MATCH HARDWARE SIZES.

# BENGAL FORT WOOD ROOF HARDWARE BAG

INSTALLER NOTE: (YOU MUST ASSEMBLE THIS PRODUCT IN ACCORDANCE WITH THESE ASSEMBLY INSTRUCTIONS. WHEN COMPLETE GIVE MANUAL TO OWNER.)

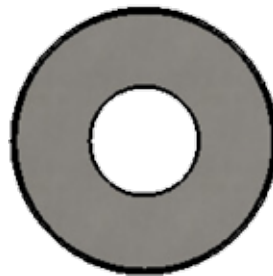
BRH-1

3/8" USS Flatwasher  
QTY. 4



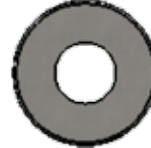
BRH-2

1/2" USS Flatwasher  
QTY. 4



BRH-3

1/4" USS Flatwasher  
QTY. 16



BRH-4

1/4" x 3" Hex Lag Screw  
QTY. 16



BRH-5

1 5/8" Coated Deck Screw  
QTY. 130



BRH-6

2 1/2" Coated Deck Screw  
QTY. 12



BRH-8

3/8" Split Lockwasher  
QTY. 4



BRH-9

3/8" Hex Nut  
QTY. 4



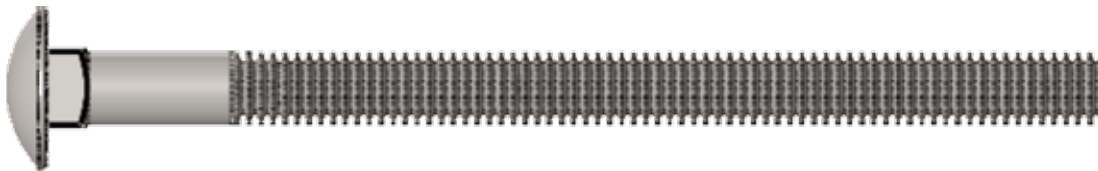
BRH-10

3/8" Acorn Nut  
QTY. 4



BRH-7

3/8" x 5 1/2" Carriage Bolt  
QTY. 4



MEASUREMENT TAKEN FROM BOTTOM OF BOLT HEAD TO THE BOTTOM OF BOLT



USE THE RULER TO MEASURE YOUR BOLTS AND SCREWS. HARDWARE VIEWS SHOWN ABOVE ARE 1:1 SCALE AND CAN BE USED TO MATCH HARDWARE SIZES.

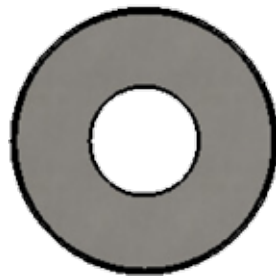
# DOUBLE DECKER WOOD ROOF HARDWARE BAG

INSTALLER NOTE: (YOU MUST ASSEMBLE THIS PRODUCT IN ACCORDANCE WITH THESE ASSEMBLY INSTRUCTIONS. WHEN COMPLETE GIVE MANUAL TO OWNER.)

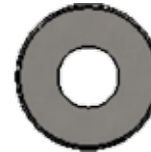
DWH-1  
3/8" USS Flatwasher  
QTY. 4



DWH-3  
1/2" USS Flatwasher  
QTY. 2



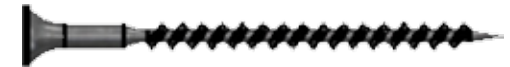
DWH-4  
1/4" USS Flatwasher  
QTY. 14



DWH-6  
1 5/8" Coated Deck Screw  
QTY. 121



DWH-7  
2 1/2" Coated Deck Screw  
QTY. 8



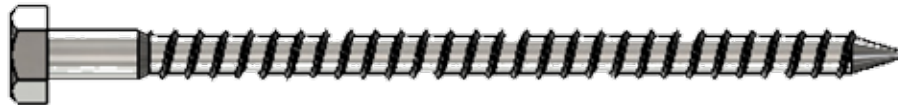
DWH-2  
3/8" x 3 1/2" Hex Lag Screw  
QTY. 2



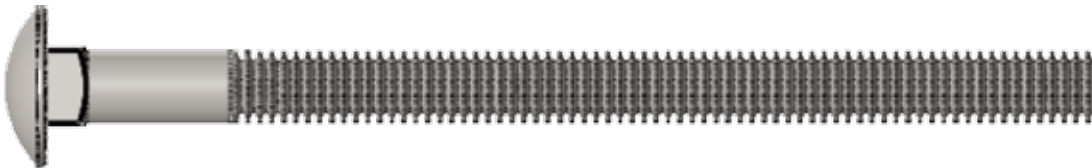
DWH-9  
3/8" Split Lockwasher  
QTY. 2



DWH-5  
1/4 x 4 1/2" Hex Lag Screw  
QTY. 14



DWH-8  
3/8" x 5 1/2" Carriage Bolt  
QTY. 2



DWH-10  
3/8" Hex Nut  
QTY. 2



DWH-11  
3/8" Acorn Nut Plated  
QTY. 2



MEASUREMENT TAKEN FROM BOTTOM OF BOLT HEAD TO THE BOTTOM OF BOLT



USE THE RULER TO MEASURE YOUR BOLTS AND SCREWS. HARDWARE VIEWS SHOWN ABOVE ARE 1:1 SCALE AND CAN BE USED TO MATCH HARDWARE SIZES.

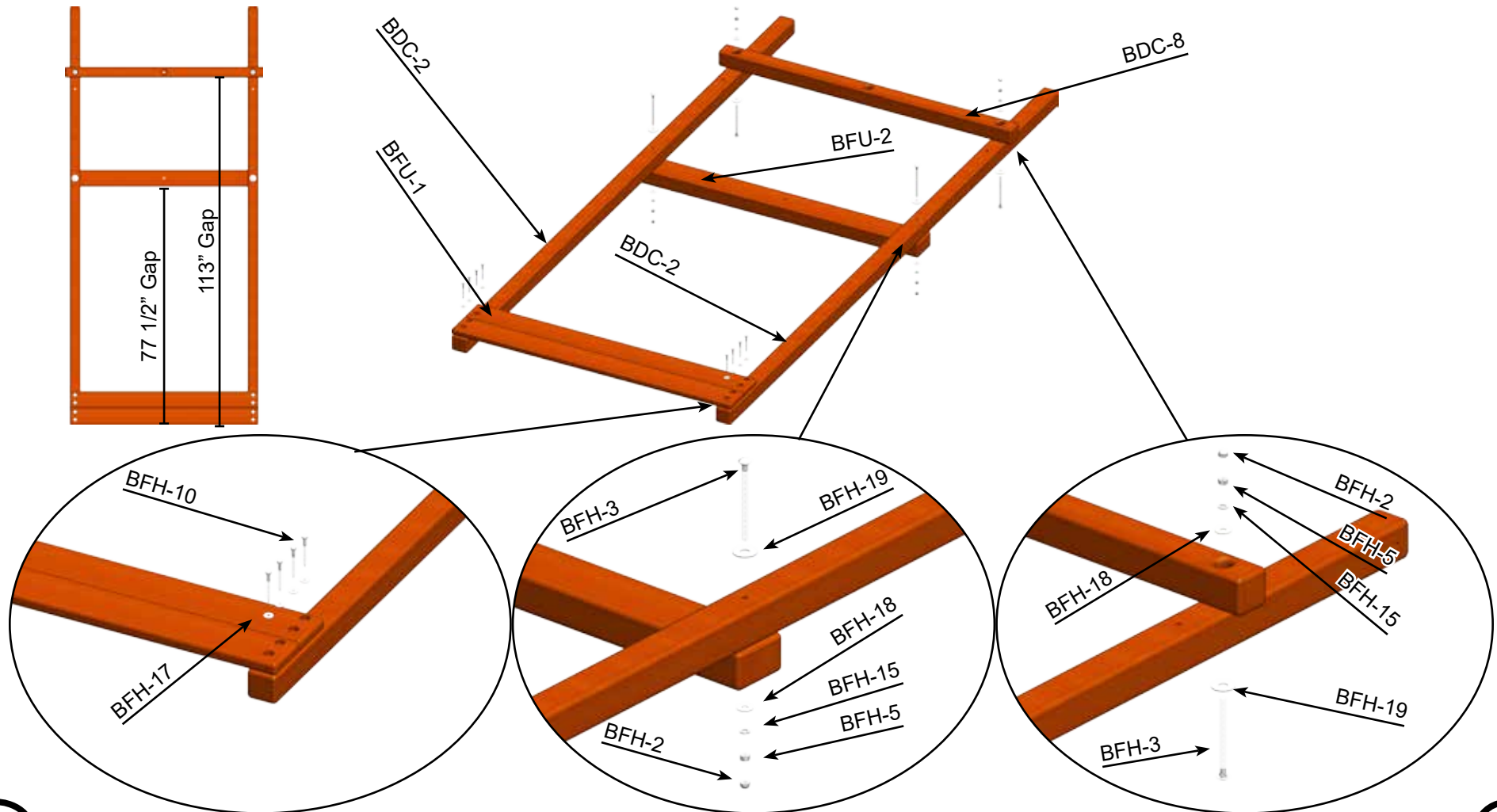
# Rockwall Side Wall Assembly

## PARTS NEEDED

BDC-2- 136" Fort Corner Post- (2)  
 BDC-8- Uni. Fort Top Joist- (1)  
 BFU-1- Uni. Fort 4-Hole Facia- (2)  
 BFU-2- Uni. Fort Mainbeam- (1)

## HARDWARE NEEDED

BFH-10- 3/8" x 3 1/2" Hex Lag Screw- (8)	BFH-17- 3/8" USS Flatwasher- (8)
BFH-3- 1/2" x 7" Carriage Bolt- (4)	BFH-19- 3/4" USS Flatwasher- (4)
BFH-18- 1/2" USS Flatwasher- (4)	BFH-15- 1/2" Split Lockwasher- (4)
BFH-5- 1/2" Hex Nut- (4)	BFH-2- 1/2" Acorn Nut Plated- (4)



# Rockwall Side Wall Assembly

## PARTS NEEDED

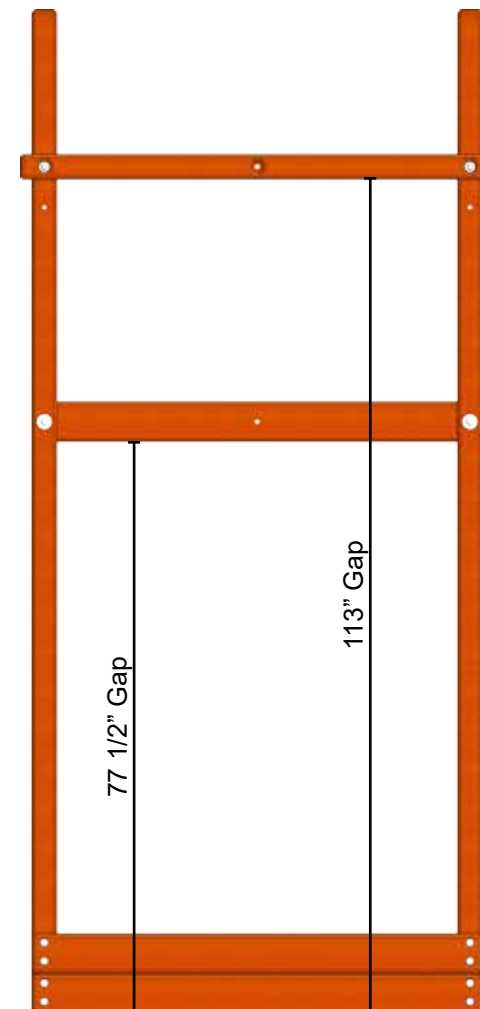
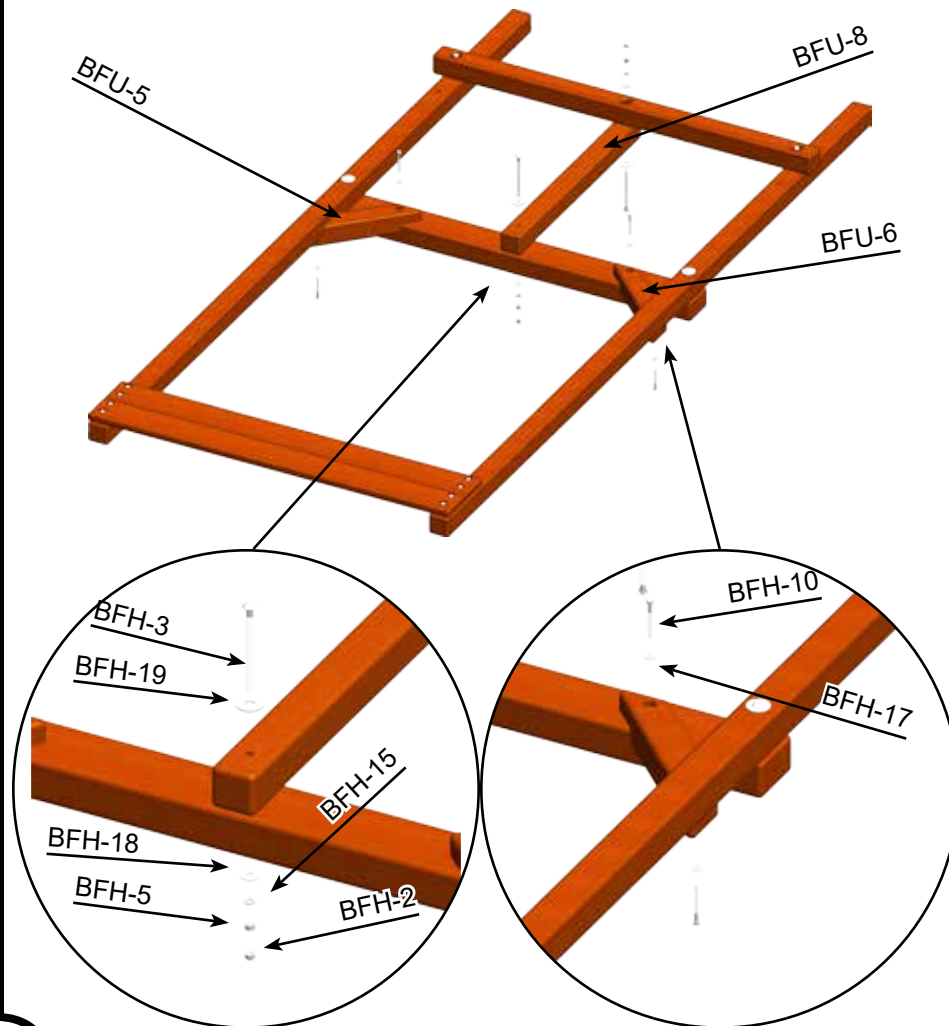
BFU-5- Left Gusset Bracket- (1)  
 BFU-6- Right Gusset Bracket- (1)  
 BFU-8- Uni. Fort Center Upright- (1)

BFH-3- 1/2" x 7" Carriage Bolt-  
 BFH-18- 1/2" USS Flatwasher-  
 BFH-5- 1/2" Hex Nut-

# SB Side Wall Assembly

## HARDWARE NEEDED

(2) BFH-19- 3/4" USS Flatwasher- (2)  
 (2) BFH-15- 1/2" Split Lockwasher- (2)  
 (2) BFH-2- 1/2" Acorn Nut- (2)





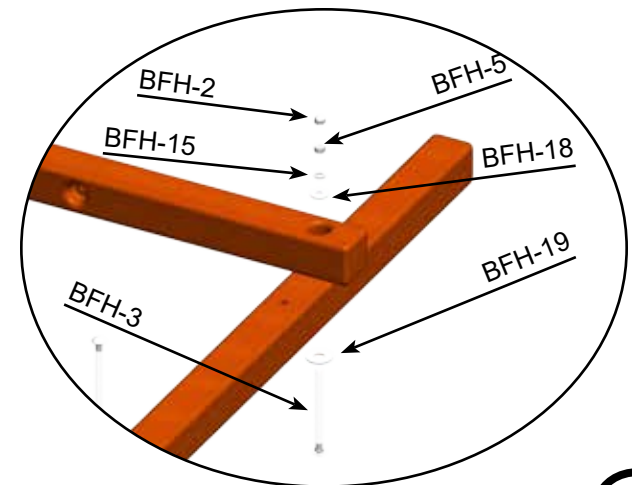
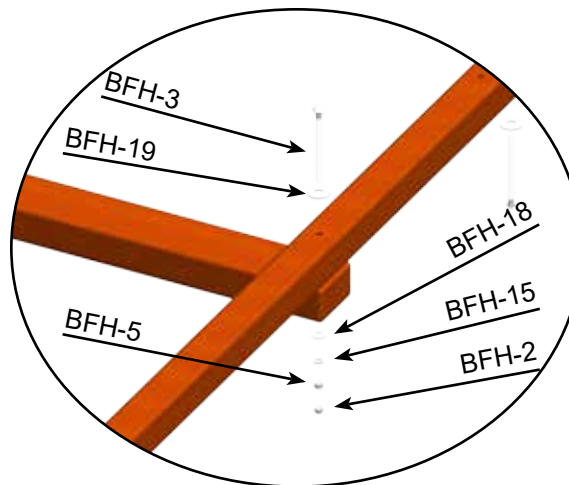
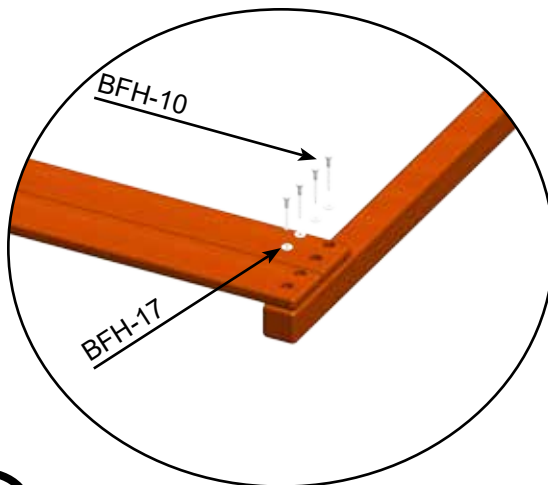
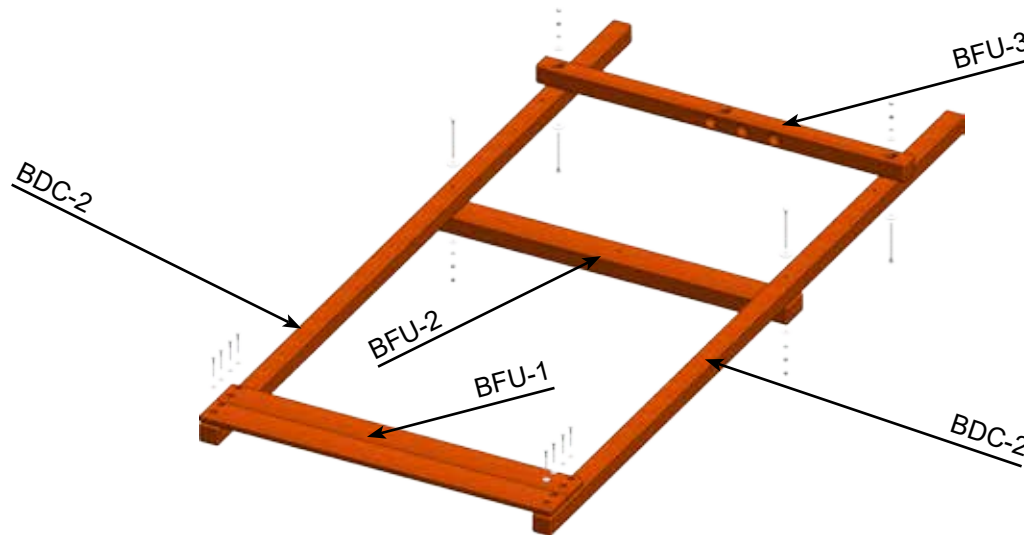
# SB Side Wall Assembly

## PARTS NEEDED

BDC-2- 136" Fort Corner Post- (2)  
 BFU-1- UNI. Fort 4- Hole Facia- (2)  
 BFU-2- Uni. Fort Mainbeam- (1)  
 BFU-3- Uni. Fort Top Joist Swingbeam- (1)

## HARDWARE NEEDED

BFH-10- 3/8" x 3 1/2" Hex Lag Screw- (8)	BFH-17- 3/8" USS Flatwasher- (8)
BFH-3- 1/2" x 7" Carriage Bolt- (4)	BFH-19- 3/4" USS Flatwasher- (4)
BFH-18- 1/2" USS Flatwasher- (4)	BFH-15- 1/2" Split Lockwasher- (4)
BFH-5- 1/2" Hex Nut- (4)	BFH-2- 1/2" Acorn Nut Plated- (4)





# SB Side Wall Assembly

## PARTS NEEDED

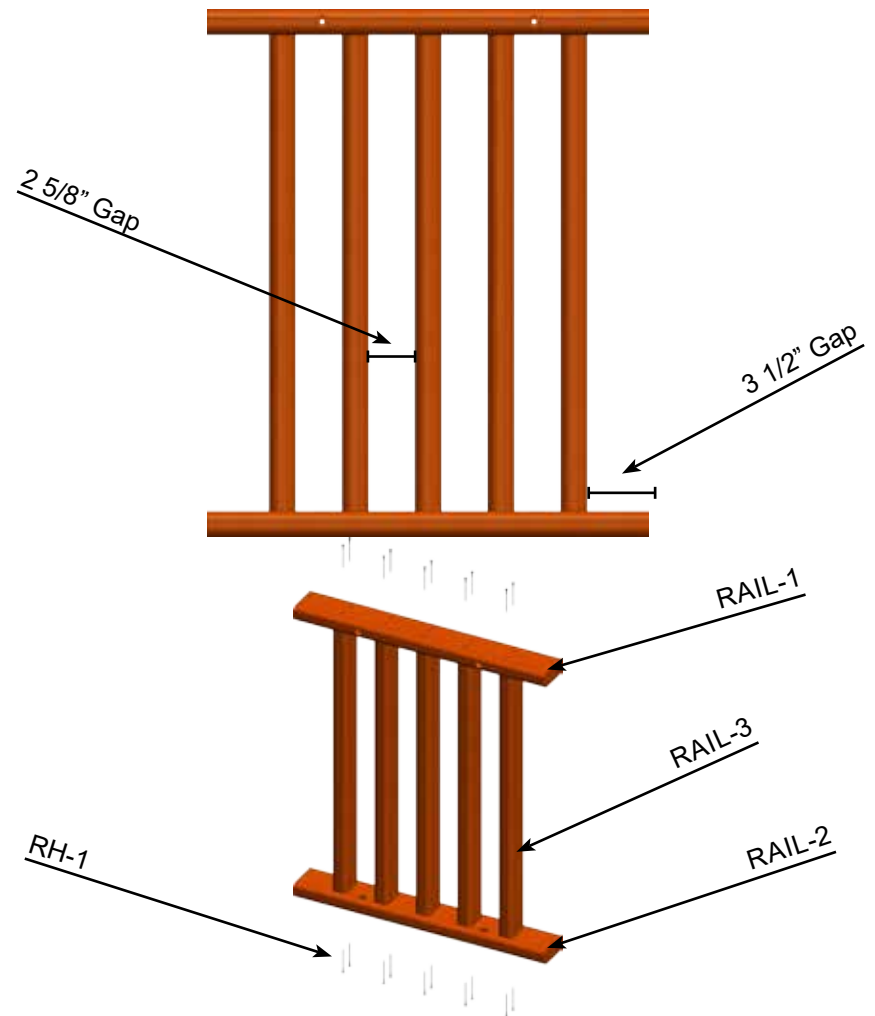
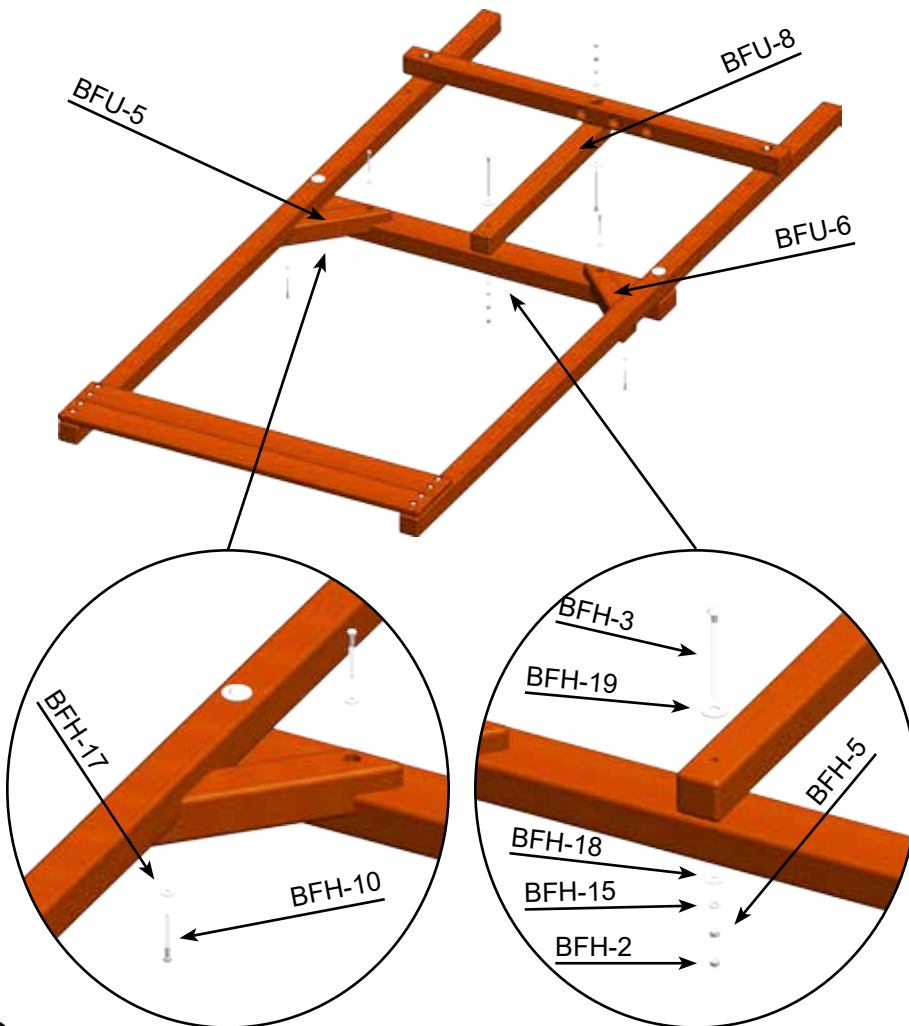
BFU-5- Left Gusset Bracket- (1)  
 BFU-6- Right Gussets Bracket- (1)  
 BFU-8- Fort Center Upright- (1)  
 RAIL-1- Uni. Rail Top- (1)  
 RAIL-2- Uni. Rail Bottom- (1)  
 RAIL-3- Uni. Rail Spindle- (5)

BFH-17- 3/8" USS Flatwasher- (4)  
 BFH-3- 1/2" x 7" Carriage Bolt- (2)  
 BFH-18- 1/2" USS Flatwasher- (2)  
 BFH-5- 1/2" Hex Nut- (2)  
 RH-1- 2 1/2" Coated Deck Screw- (20)

# Uni. Rail assembly (Count Per Rail)

## HARDWARE NEEDED

BFH-10- 3/8" x 3 1/2" Hex Lag Screw- (4)  
 BFH-19- 3/4" USS Flatwasher- (2)  
 BFH-15- 1/2" Split Lockwasher- (2)  
 BFH-2- 1/2" Acorn Nut- (2)



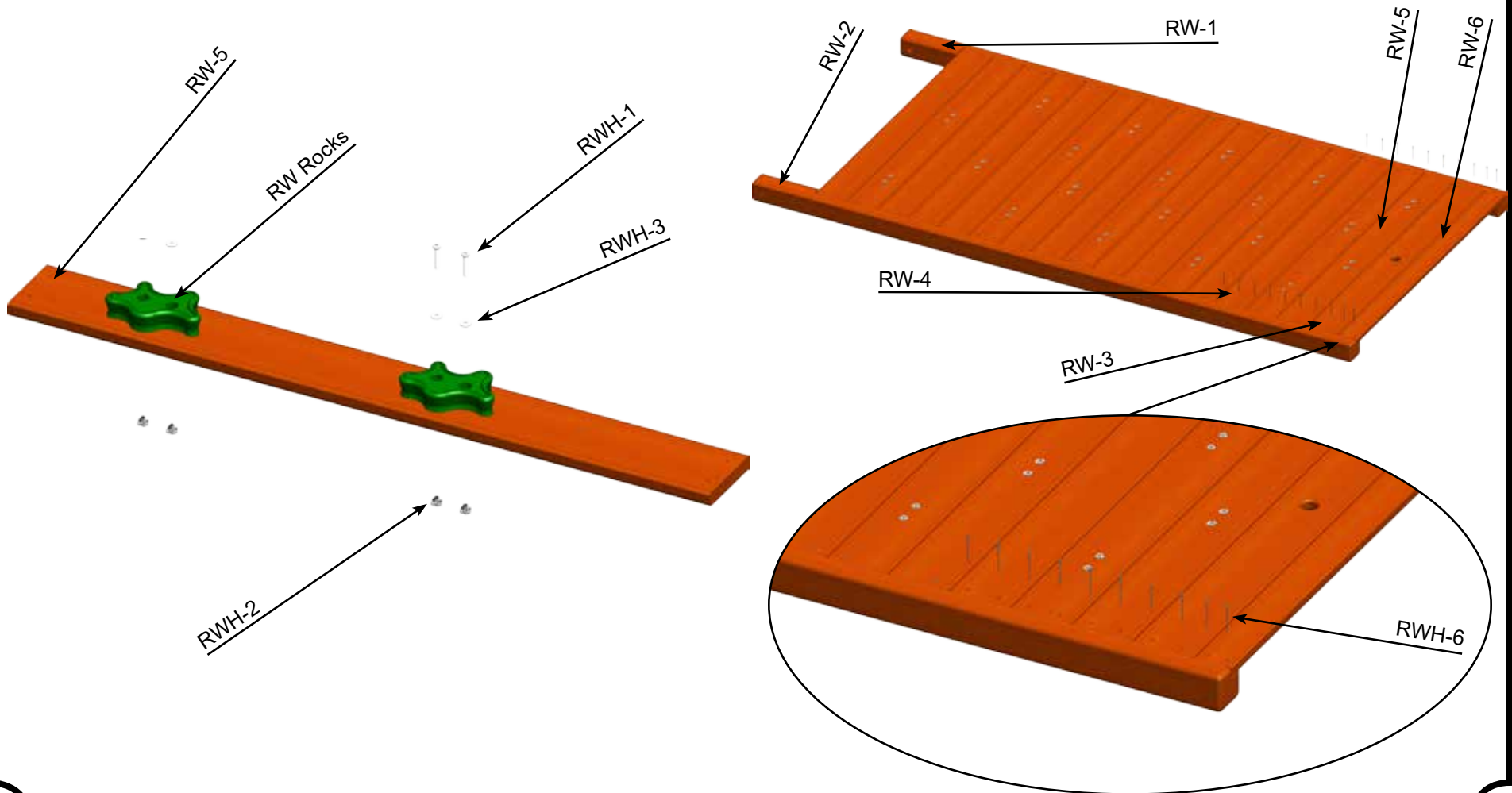
# Rockwall Assembly

## PARTS NEEDED

RW-1- 107 1/2" Fort Left RW Ladder Leg-	(1)
RW-2- 107 1/2" Fort Right RW Ladder Leg-	(1)
RW-3- Uni. Fort RW Board w/ Rope Hole-	(1)
RW-4- Uni. Fort RW Board Blank-	(6)
RW-5- Uni. Fort RW Board w/ Rock Holes-	(10)
RW-6- Uni. Fort RW Board-Slim-	(1)

## HARDWARE NEEDED

RWH-1- 1/4" x 1 1/4" Pan Phillips M/S-	(40)
RWH-2- 1/4" x 7/16" 4 PRong T-Nut-	(40)
RWH-3- 1/4" USS Flatwasher-	(40)
RWH-6- 2 1/2" Coated Deck Screw-	(72)
Rockwall Rocks-	(20)

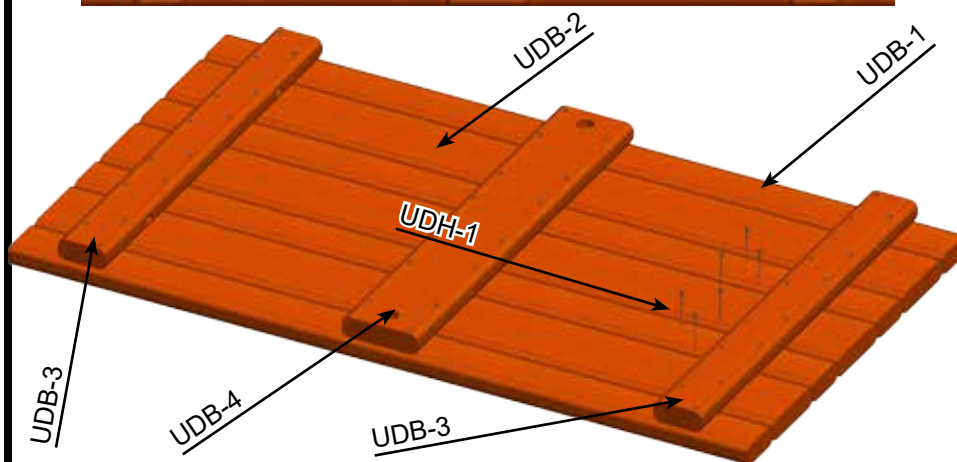


# Universal Deck Assembly

## PARTS NEEDED

UDB-1- Small Deck Board-	(16)	UDB-2- Large Deck Board-	(12)
UDB-3- Universal Deck Runner-	(8)	UDB-4- Universal Deck Support-	(4)
PIC-1- Uni. Deck Board- Slim-	(2)	PIC-6- Uni. Fort Picnic Seat Runner-	(4)
PIC-7- Uni. Fort Seat Runner No Holes-	(2)	PIC-8- Uni. Fort Picnic Table- Wide-	(4)

Make 4 of these

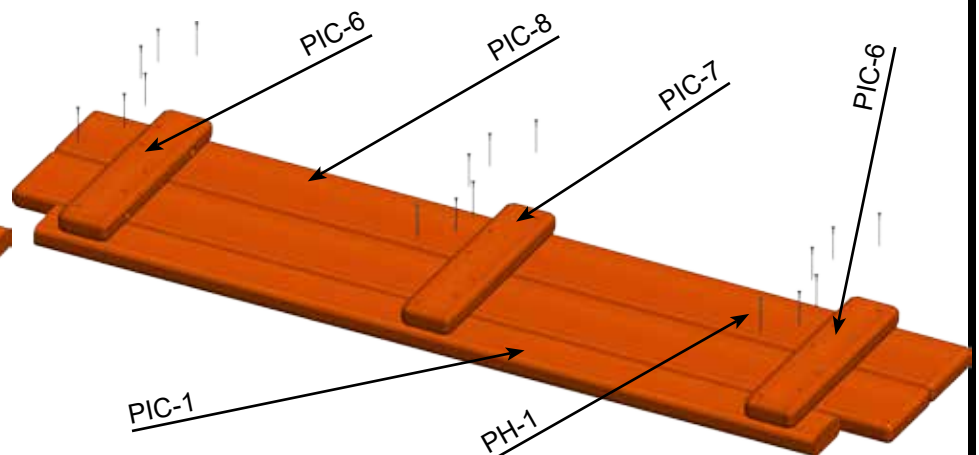
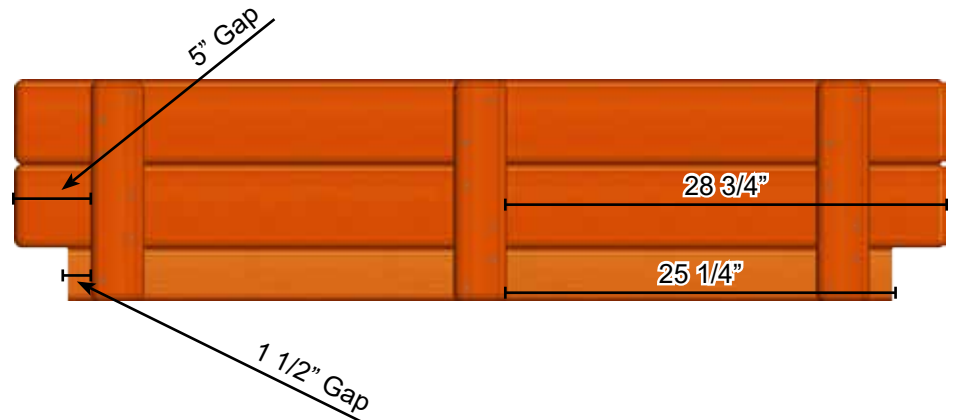


# Picnic Seat Assembly

## HARDWARE NEEDED

PH-1- 2 1/2" Coated Deck Screw-	(36)
UDH-1- 2 1/2" Coated Deck Screw-	(84)

Make 2 of these



# Picnic Table Assembly

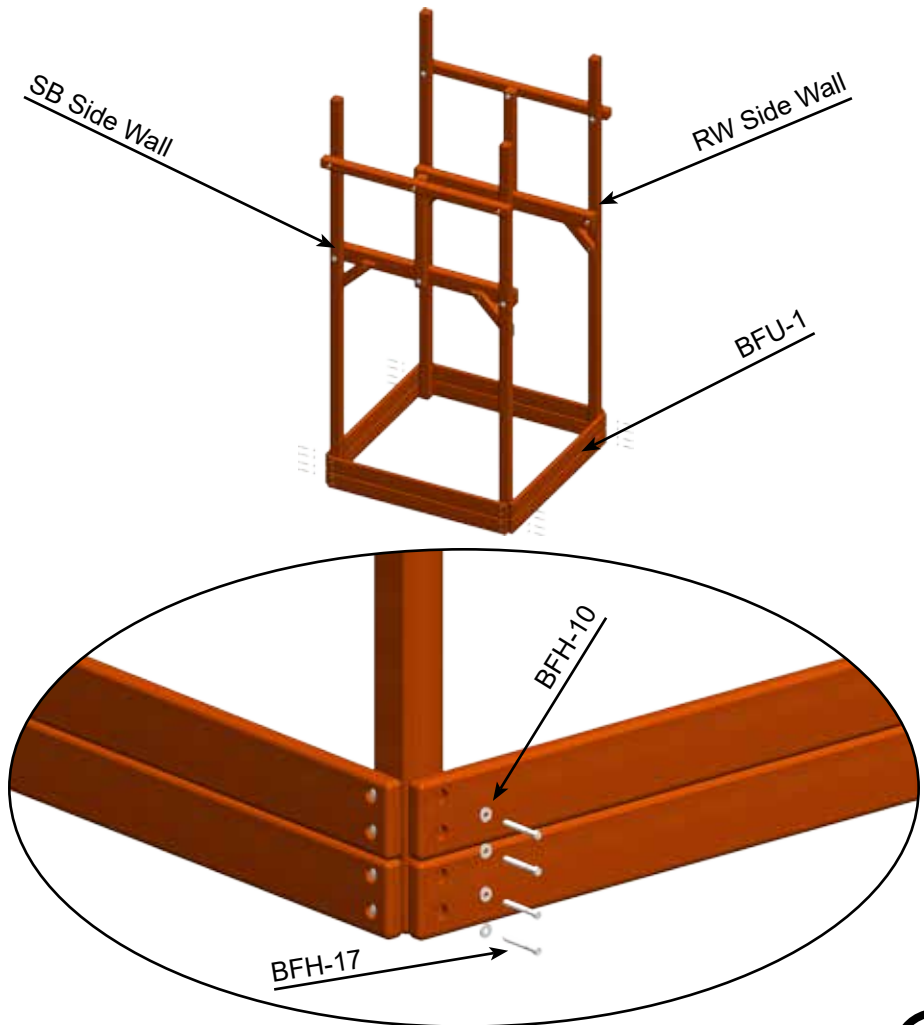
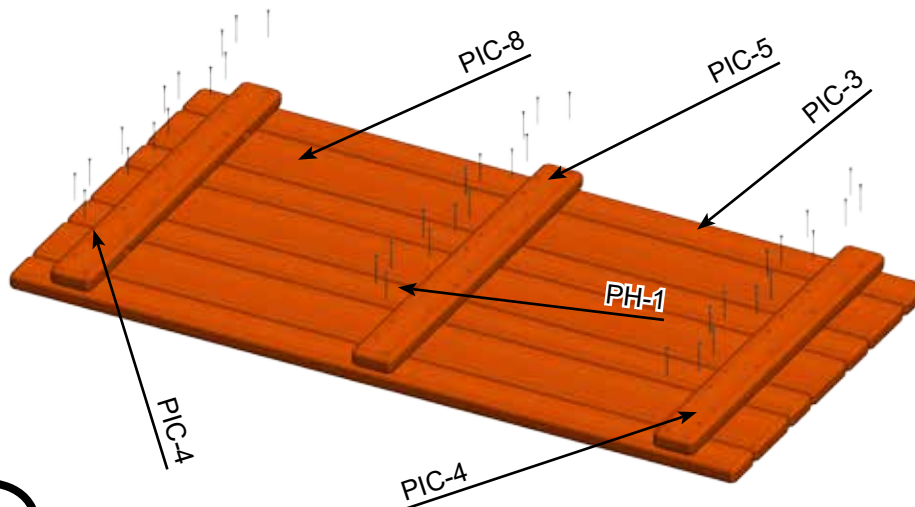
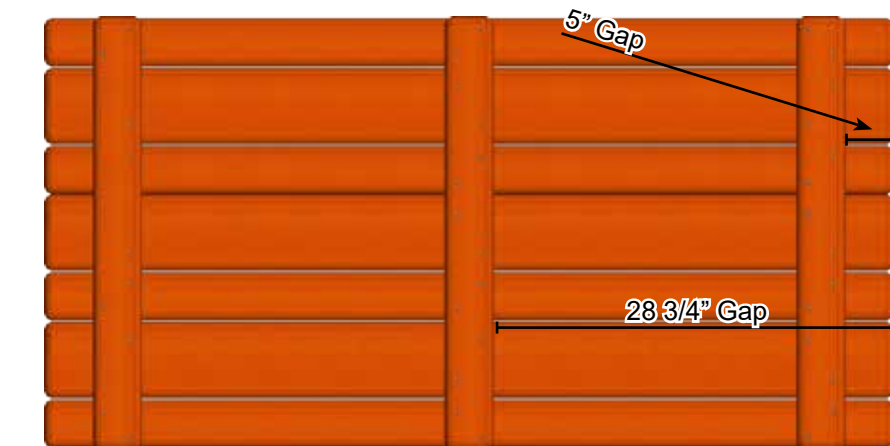
## PARTS NEEDED

PIC-3- Uni. Fort Picnic Tabel Board-	(4)
PIC-4- Uni. Fort Picnic Table Runner-	(2)
PIC-5- Uni. Fort Picnic Table Runner No Holes-	(1)
PIC-8- Uni. Fort Picnic Table Board-Wide-	(3)
BFU-1- Uni. Fort 4-Hole Facia-	(4)

# Bengal Main Assembly

## HARDWARE NEEDED

PH-1- 2 1/2" Coated Deck Screw-	(45)
BFH-10- 3/8" x 3 1/2" Hex Lag Screw-	(16)
BFH-17- 3/8" USS Flatwasher-	(16)



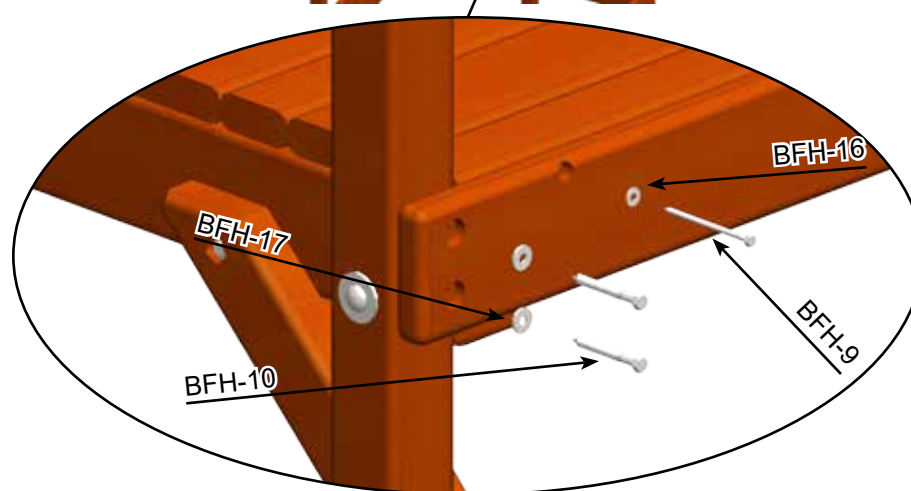
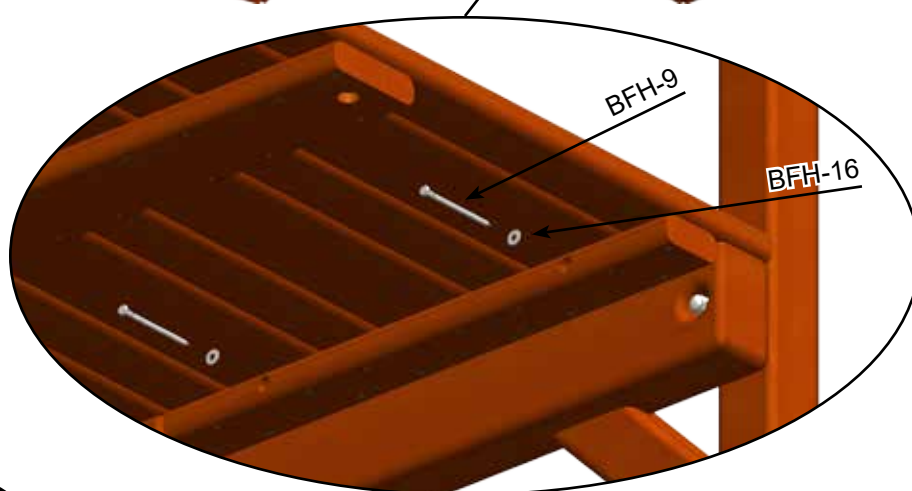
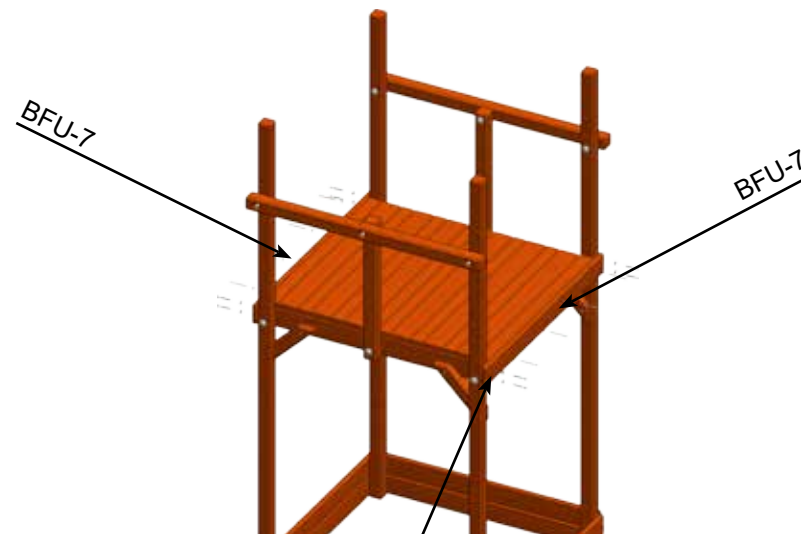
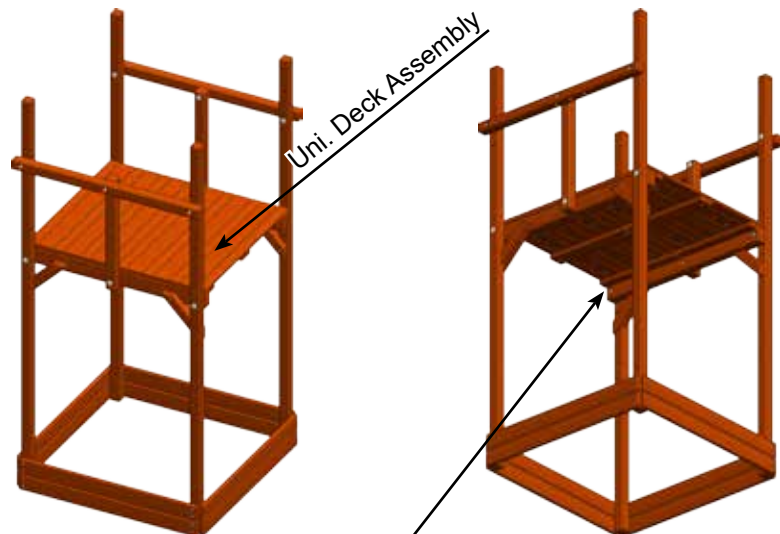
# Bengal Main Assembly

## PARTS NEEDED

Uni. Deck Assembly- (2)  
BFU-7- Uni. Fort 8-Hole Facia- (2)

## HARDWARE NEEDED

BFH-9- 1/4" x 4 1/2" Hex Lag Screw- (16)  
BFH-16- 1/4" USS Flatwasher- (16)  
BFH-10- 3/8" x 3 1/2" Hex Lag Screw- (8)  
BFH-17- 3/8" USS Flatwasher- (8)





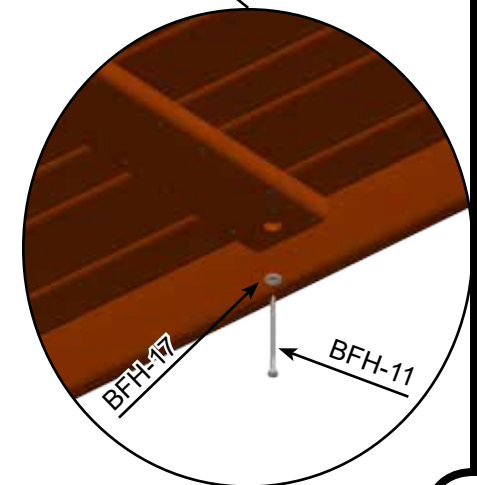
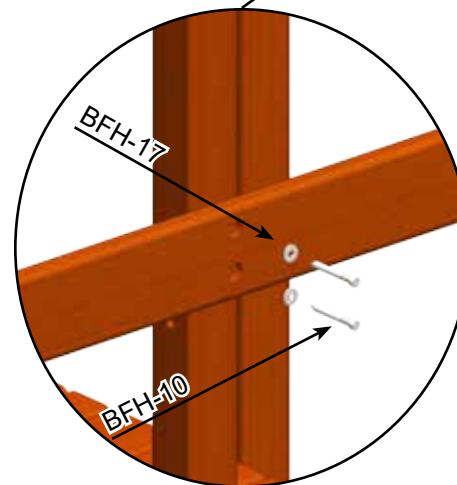
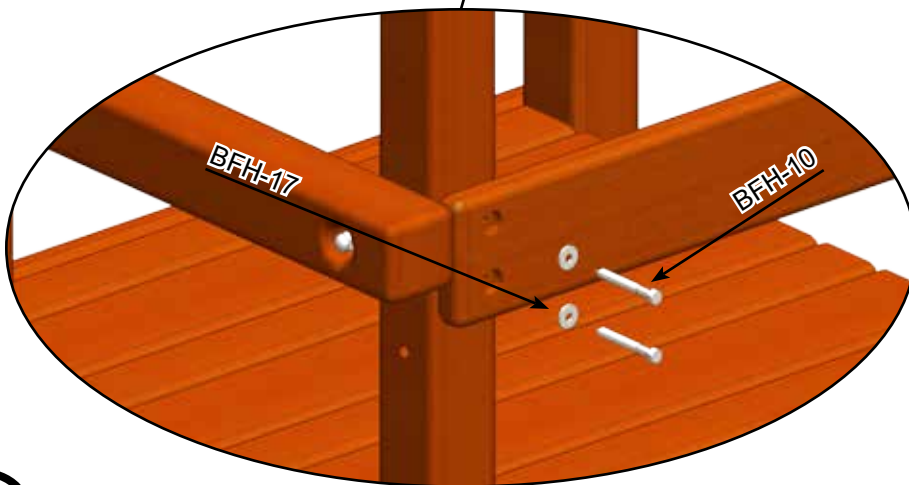
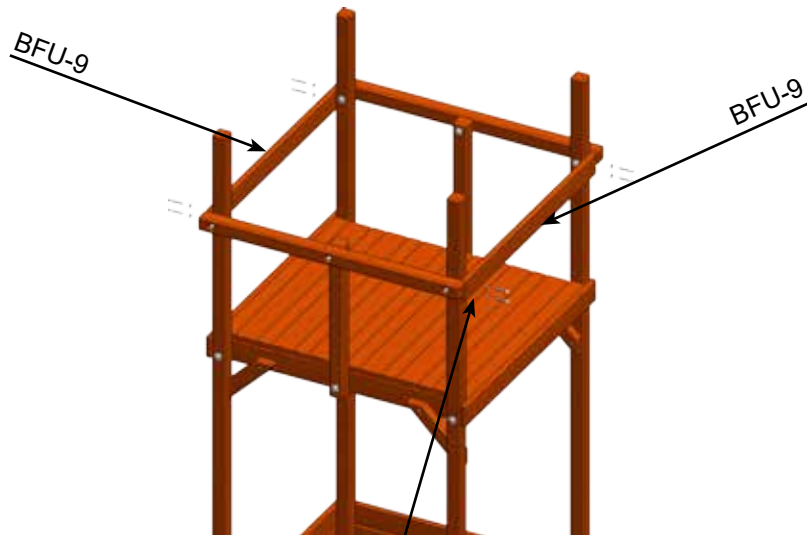
# Bengal Main Assembly

## PARTS NEEDED

BFU-9- Universal 6 Hole Facia- (2)  
BTB-1- Universal Fort Tarp Center Post- (2)

## HARDWARE NEEDED

BFH-17- 3/8" USS Flatwasher- (14)  
BFH-10- 3/8" x 3 1/2" Hex Lag Screw- (12)  
BFH-11- 3/8" x 5" Hex Lag Screw- (2)



# Bengal Fort Wood Roof

## PARTS NEEDED

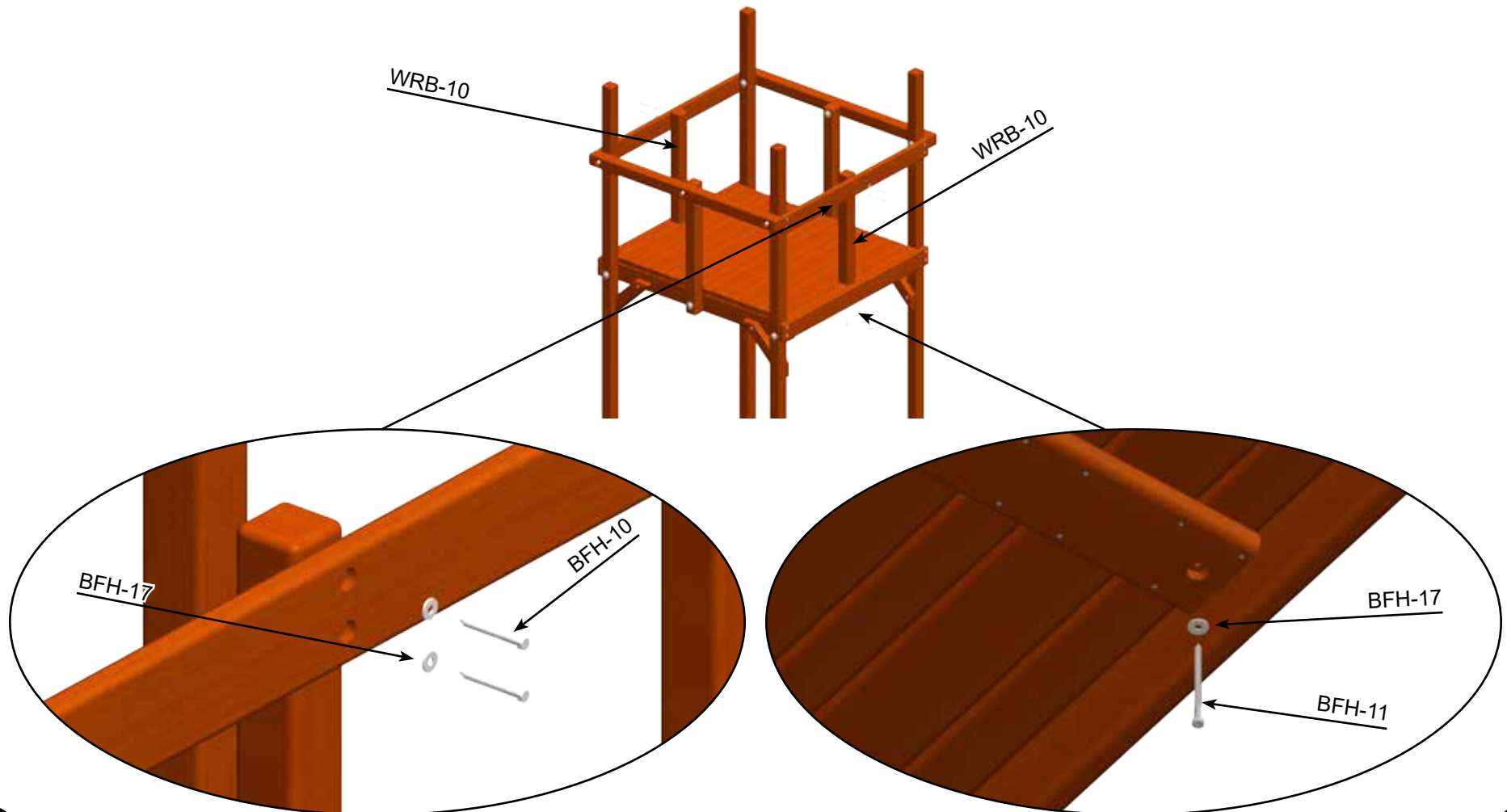
WRB-10- Uni. Fort Wood Roof Center Post- (2)

## HARDWARE NEEDED

BFH-17- 3/8" USS Flatwasher- (6)

BFH-10- 3/8" x 3 1/2" Hex Lag Screw- (4)

BFH-11- 3/8" x 5" Hex Lag Screw- (2)



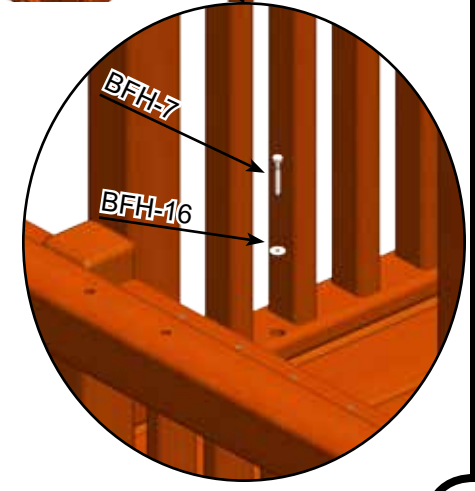
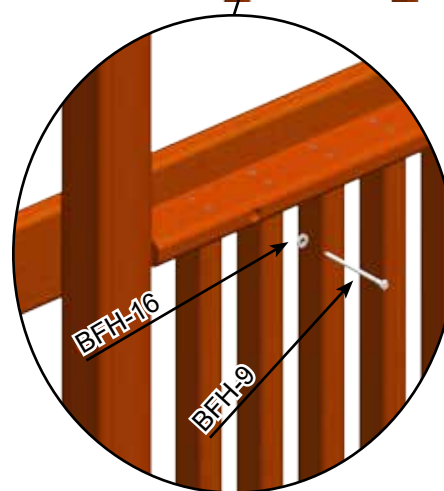
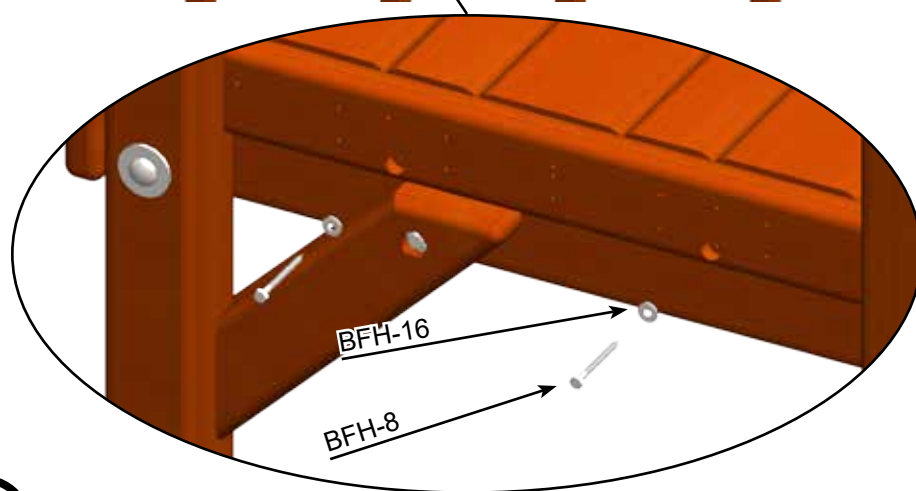
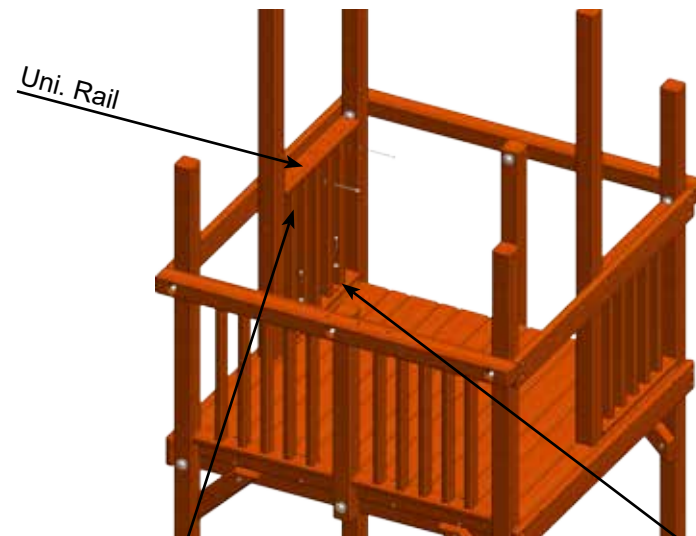
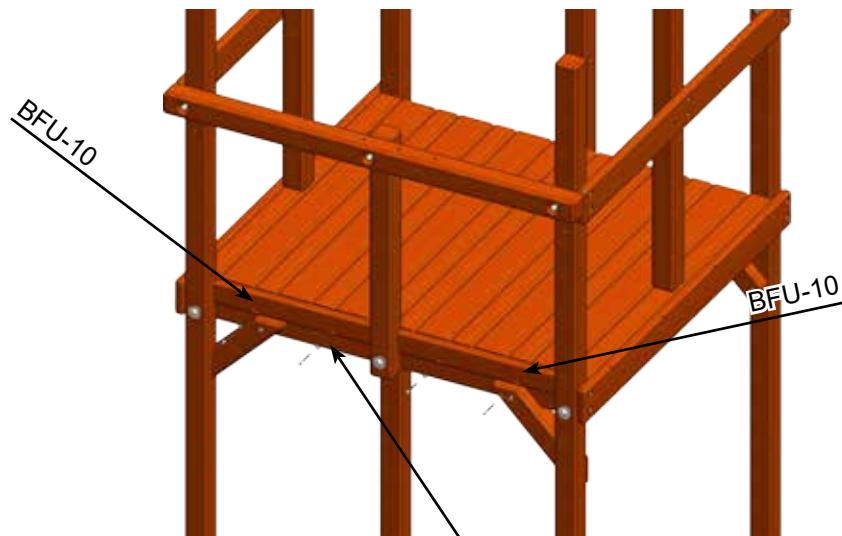
# Bengal Main Assembly

## PARTS NEEDED

BFU-10- Universal Rail Bottom- (2)  
Universal Rail- (4)

## HARDWARE NEEDED

BFH-8- 1/4" x 3" Hex Lag Screw- (4)  
BFH-9- 1/4" x 4 1/2" Hex Lag Screw- (8)  
BFH-7- 1/4" x 2" Hex Lag Screw- (8)  
BFH-16- 1/4" USS Flatwasher- (12)





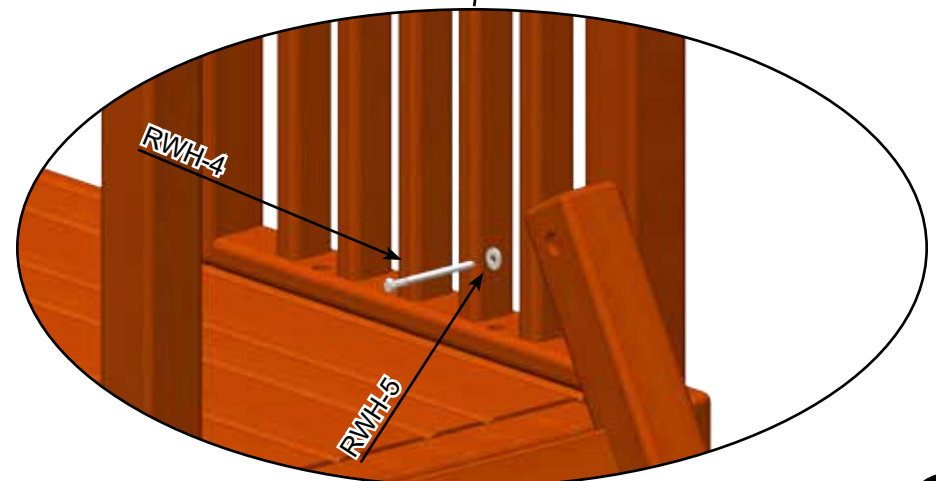
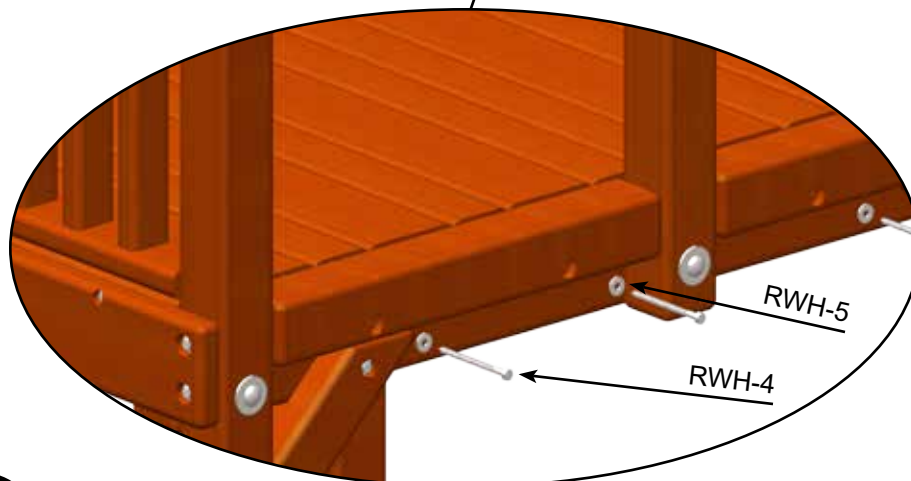
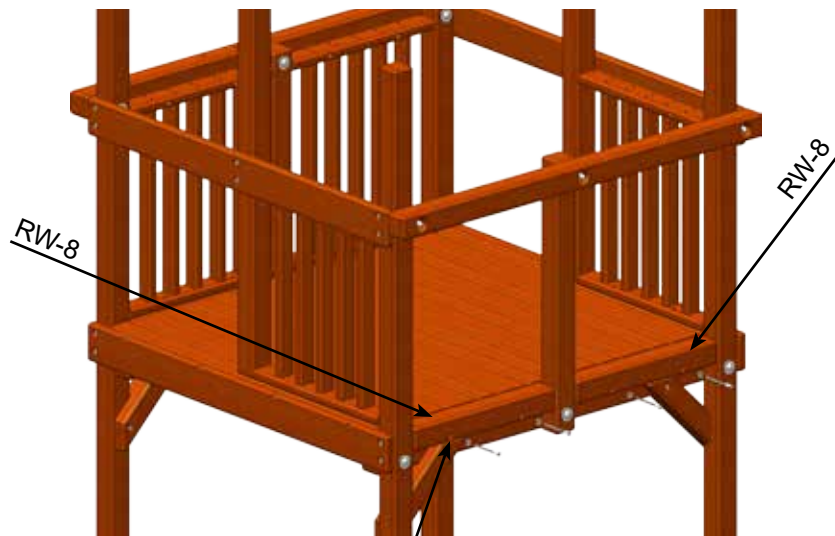
# Bengal Main Assembly

## PARTS NEEDED

RW-8- Universal Entrapment Block- (2)  
Rockwall Assembly- (1)

## HARDWARE NEEDED

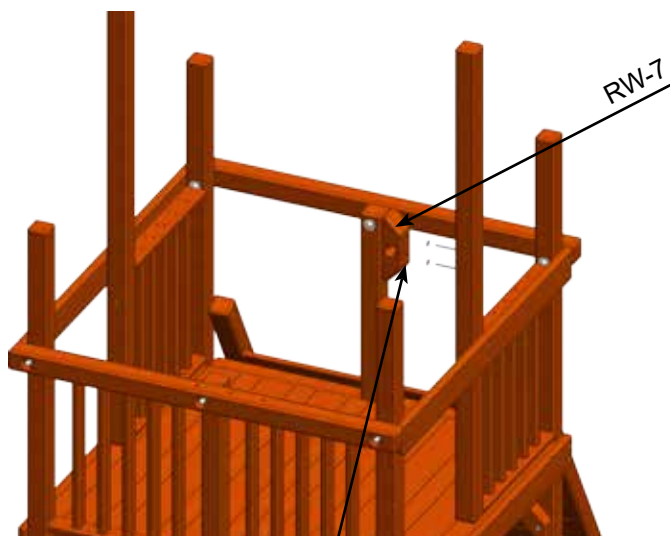
RWH-4- 3/8" x 5" Hex Lag Screw- (6)  
RWH-5- 3/8" USS Flatwasher- (6)



# Bengal Main Assembly

## PARTS NEEDED

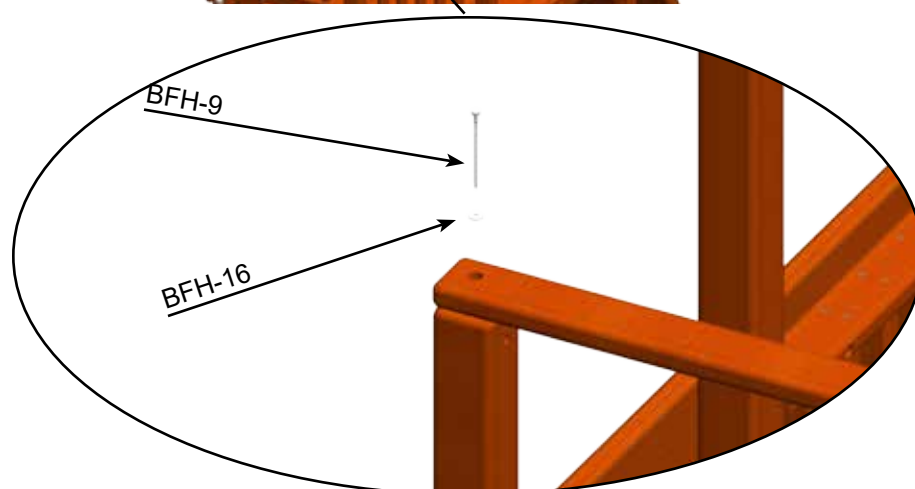
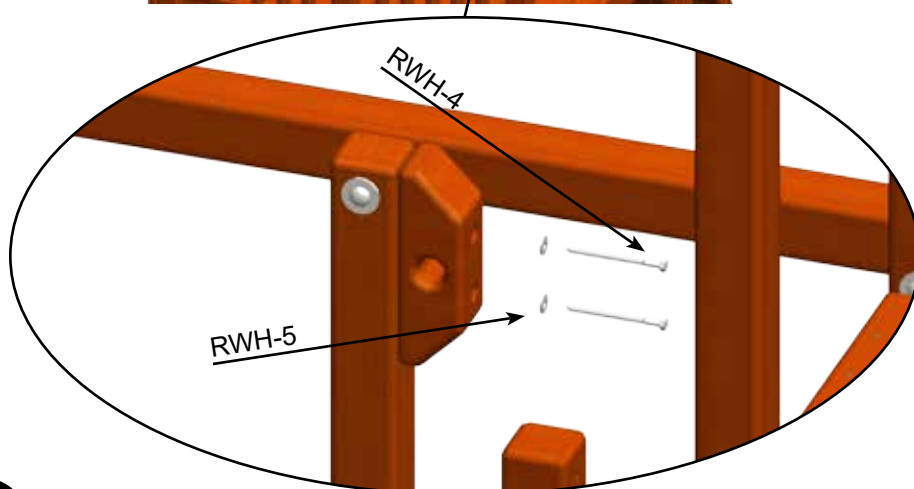
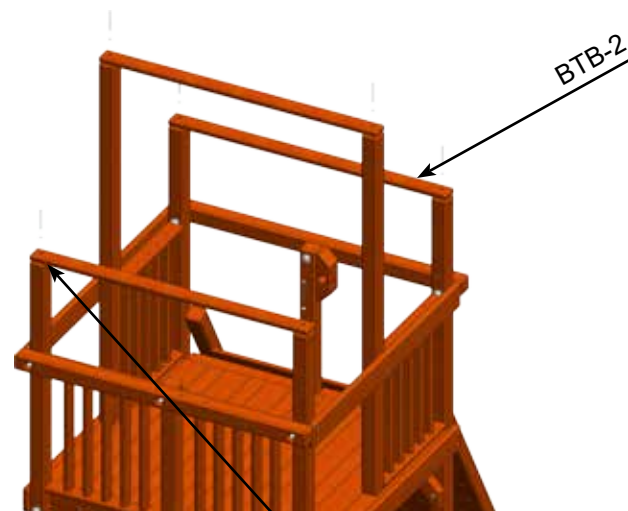
RW-7- Universal Rope Block- (1)  
BTB-2- Universal Tarp Board- (3)



# Bengal Tarp Assembly

## HARDWARE NEEDED

RWH-4- 3/8" x 5" Hex Lag Screw- (2)  
RWH-5- 3/8" USS Flatwasher- (2)  
BFH-9- 1/4" x 4 1/2" Hex Lag Screw- (6)  
BFH-16- 1/4" USS Flatwasher- (6)

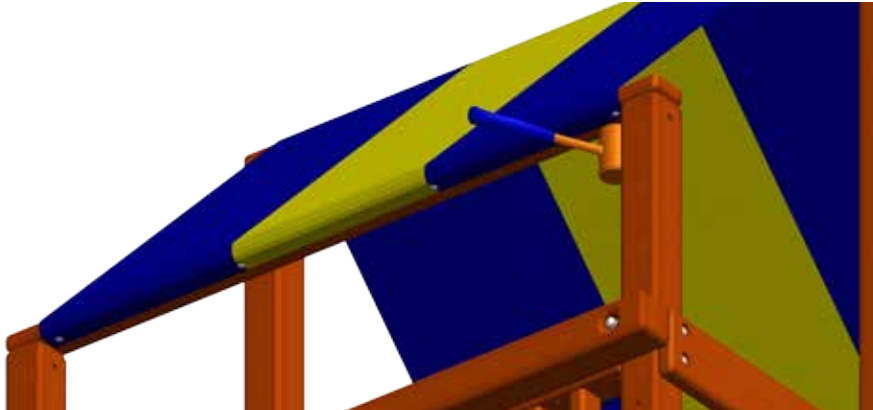


# Tarp Installation

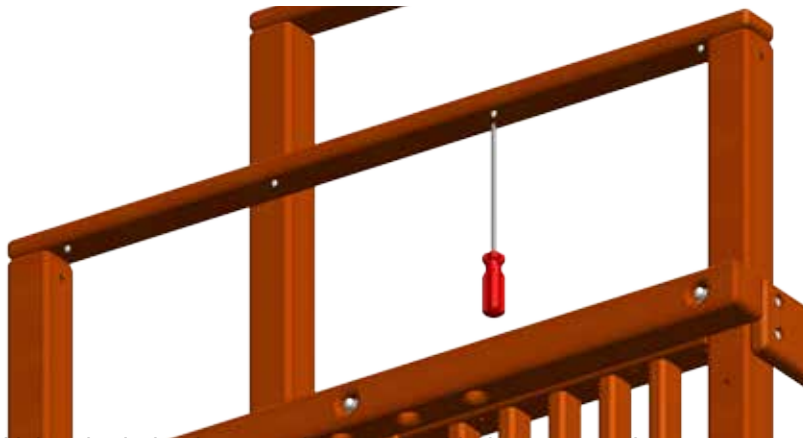
## HARDWARE NEEDED

Tarp Snaps with Tarp-

(8)



Take one corner of the VINYL TARP and place it flush in the corner. Tap the snap with a blunt object, leaving an indentation of the snap in the wood. Repeat this process until all the snaps have been indented in the wood on both side.



Using the indentions you just made with the snaps, take the 5/8" PHILLIPS SCREW SNAPS and drill one into each indentation



Take the corner of the VINYL TARP and start placing the snaps on the PHILLIPS SCREW SNAPS. Fold the VINYL TARP over the top of the UNIVERSAL TARP BOARD. Pull tight and place the snaps on the PHILLIPS SCREW SNAPS.

# Bengal Fort Wood Roof

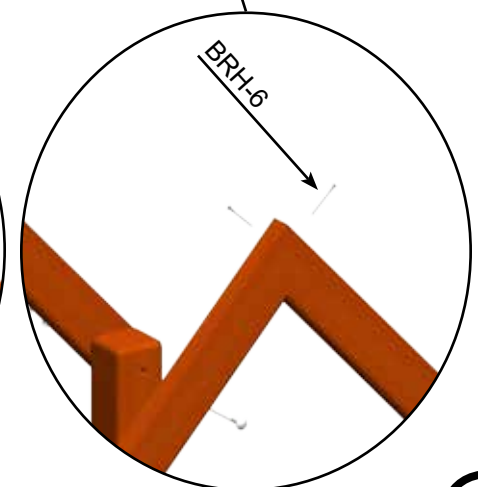
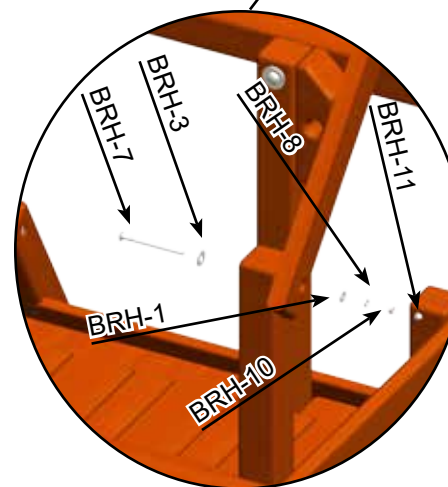
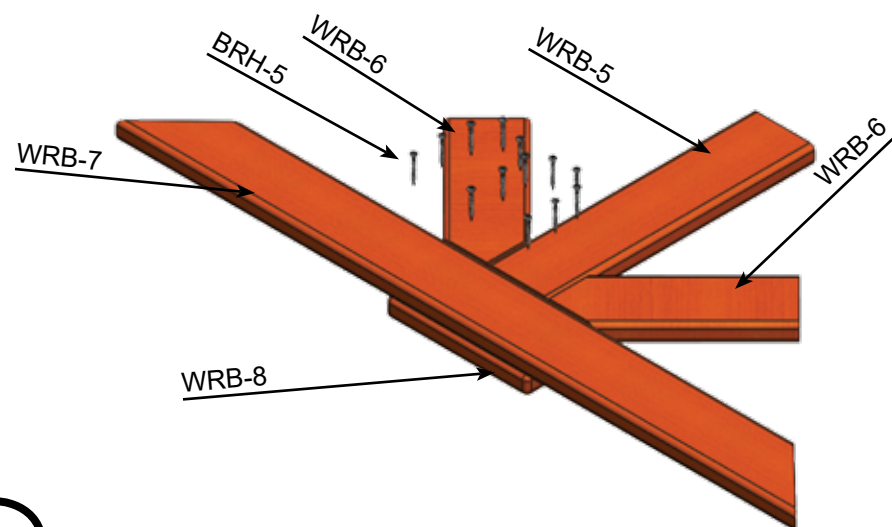
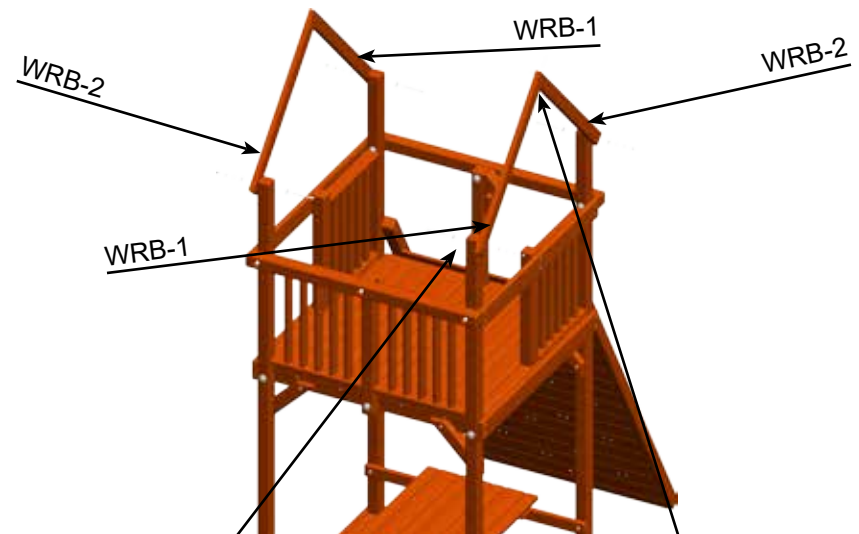
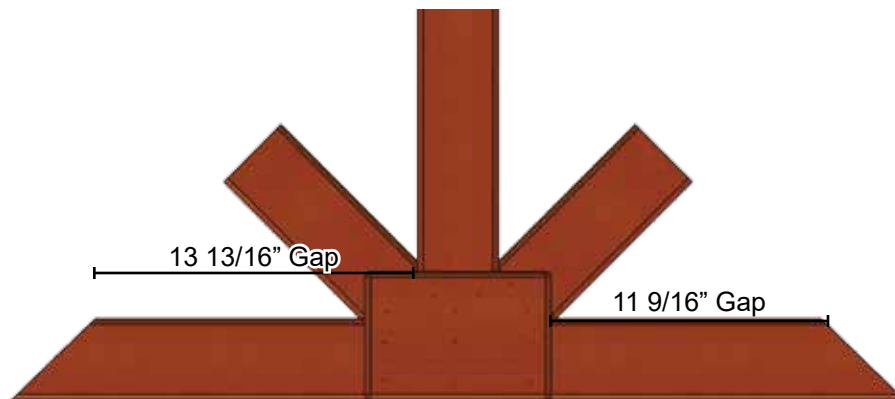
## PARTS NEEDED

WRB-5- Ben Fort Fan Board #1-	(4)
WRB-6- Ben Fort Fan Board #2-	(8)
WRB-7- Ben Fort Fan Board #3-	(4)
WRB-8- Ben Fort Fan Board #4-	(4)
WRB-1- Bengal Fort WR Support (R)-	(2)
WRB-2- Bengal Fort WR Support (L)-	(2)

## HARDWARE NEEDED

BRH-5- 1 5/8" Coated Deck Screw-	(48)
BRH-7- 3/8" x 5 1/2" Carriage Bolt-	(4)
BRH-3- 1/2" USS Flatwasher-	(4)
BRH-1- 3/8" USS Flatwasher-	(4)
BRH-8- 3/8" Split Lockwasher-	(4)
BRH-10- 3/8" Hex Nut-	(4)
BRH-11- 3/8" Acorn Nut Plated-	(4)

Make 4 of these for both Wood Roofs



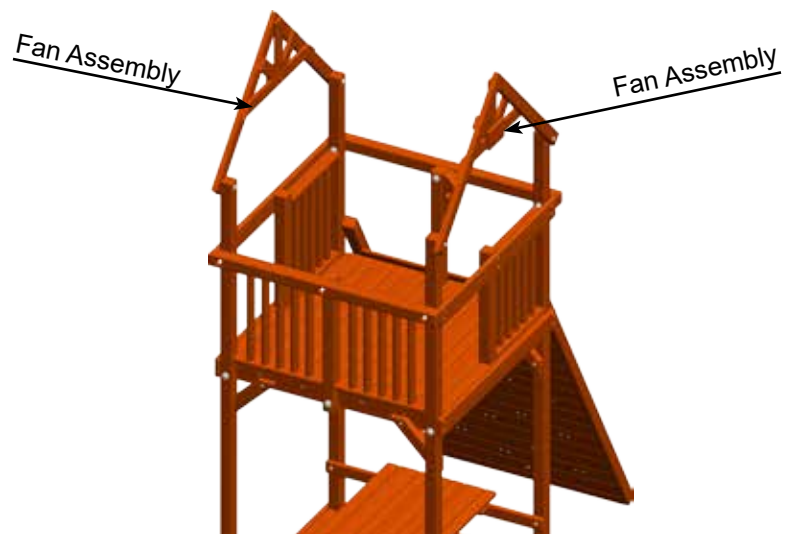
# Bengal Fort Wood Roof

## PARTS NEEDED

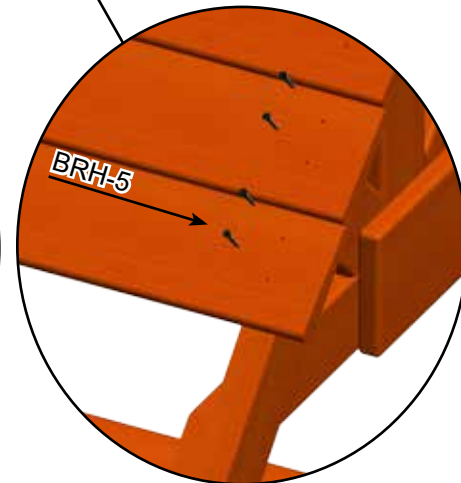
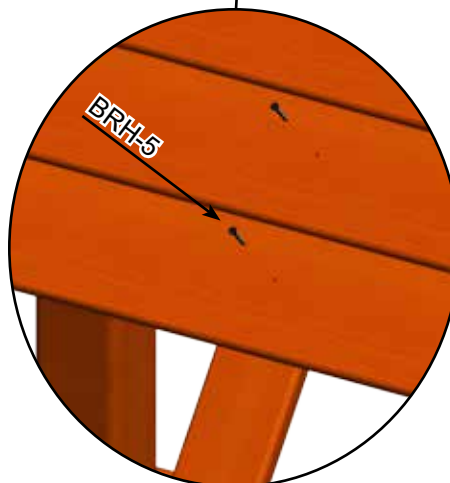
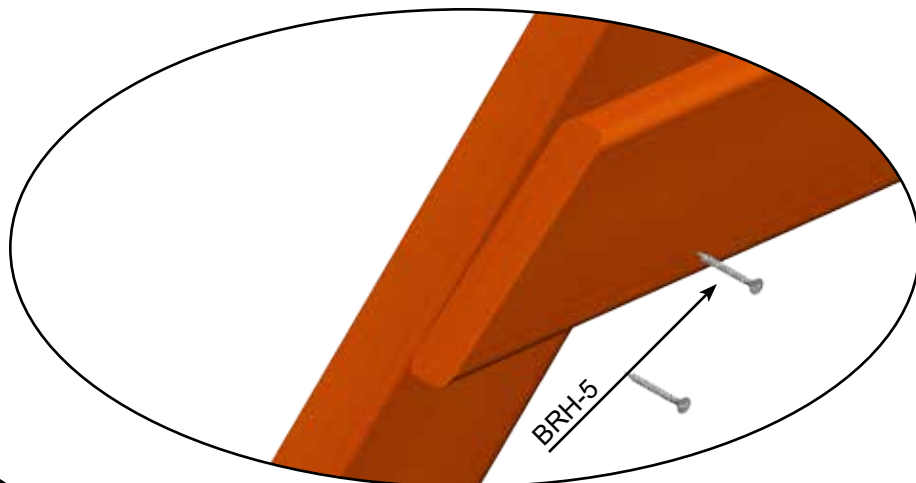
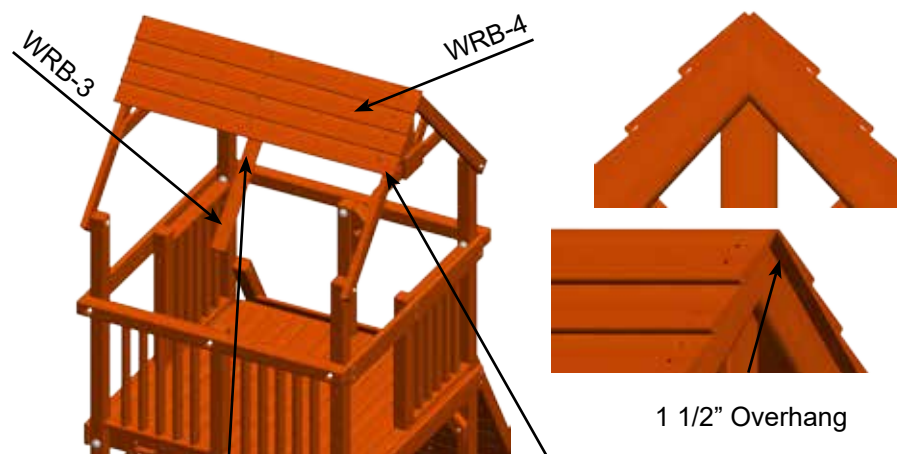
Fan Assembly- (2)  
WRB-3- Bengal Fort WR Center Support- (2)  
WRB-4- Bengal Fort Wood Roof Board- (8)

## HARDWARE NEEDED

BRH-5- 1 5/8" Coated Deck Screws- (60)



Repeat for both sides of Wood Roof





# Bengal Fort Wood Roof

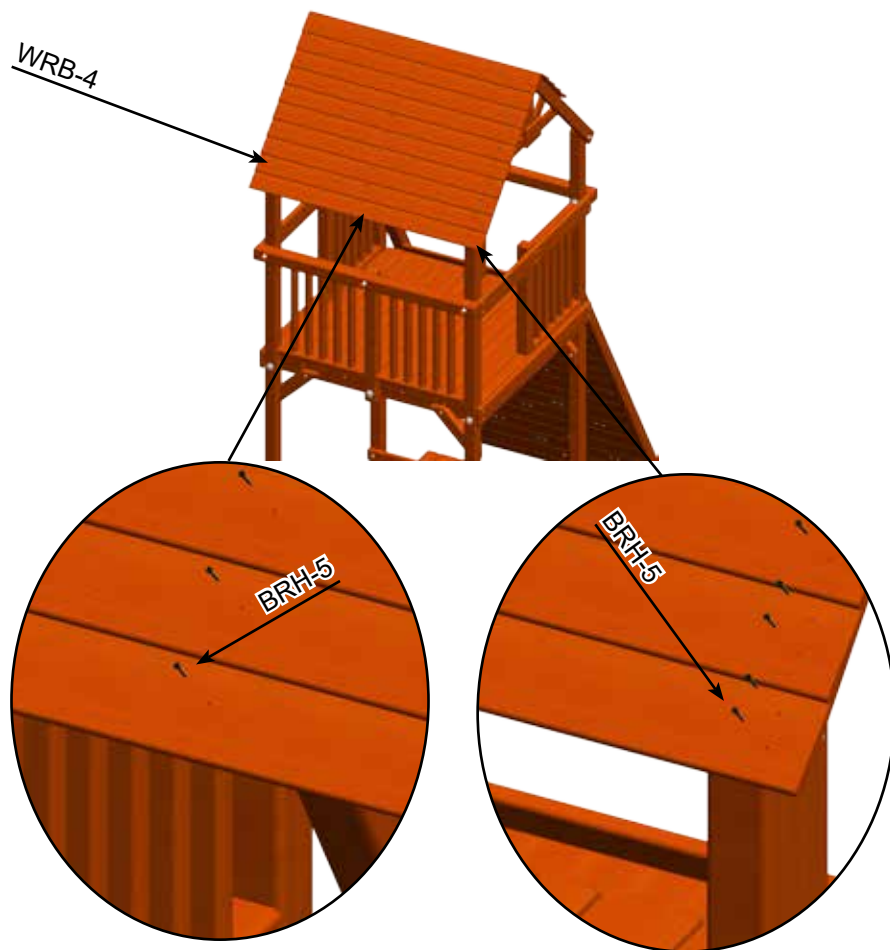
## PARTS NEEDED

WRB-4- Bengal Fort Wood Roof Board- (12)  
WRB-9- Universal WR Peak Facia- (2)

## HARDWARE NEEDED

BRH-5- 1 5/8" Coated Deck Screw- (76)

Repeat for both sides of Wood Roof



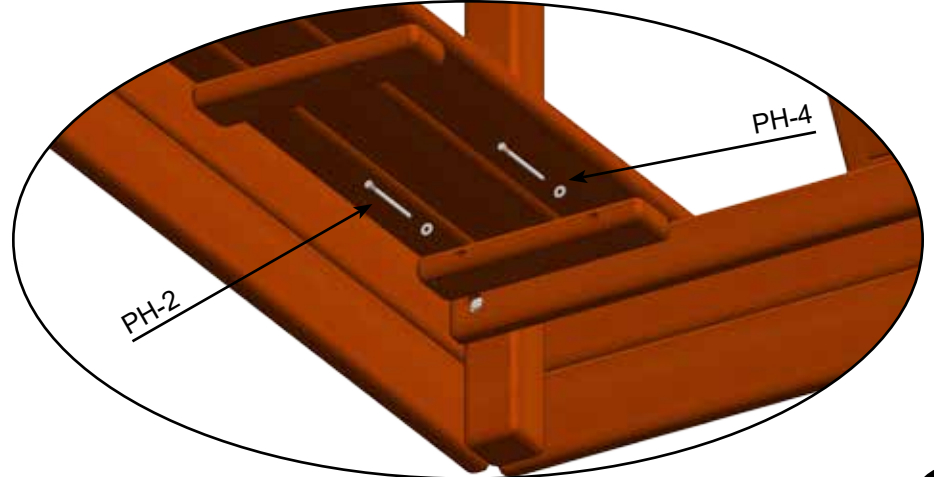
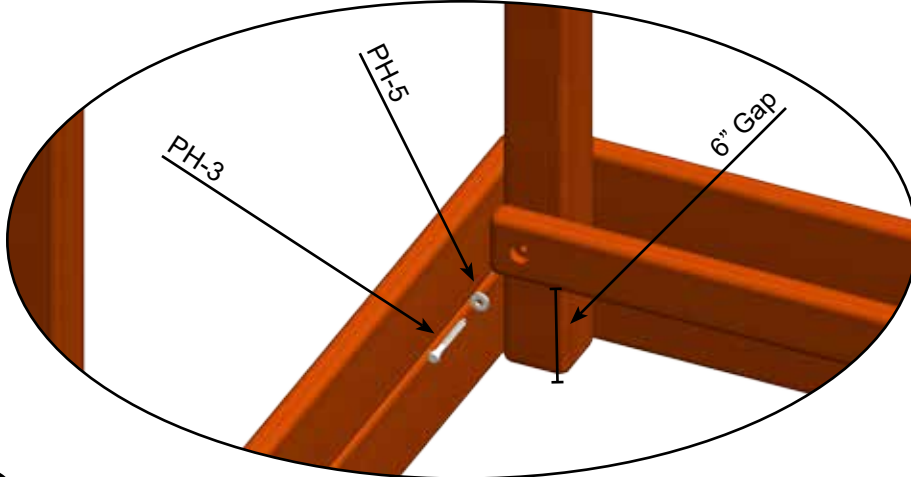
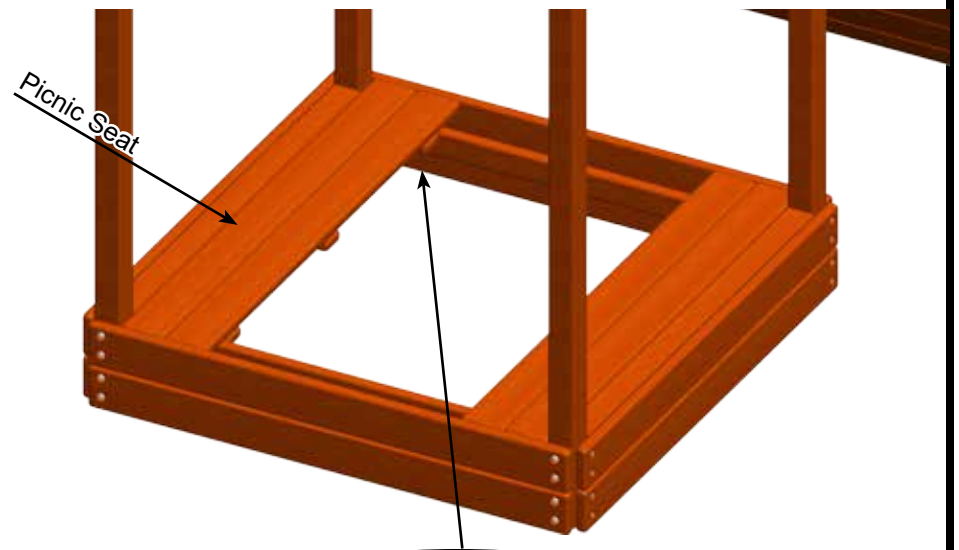
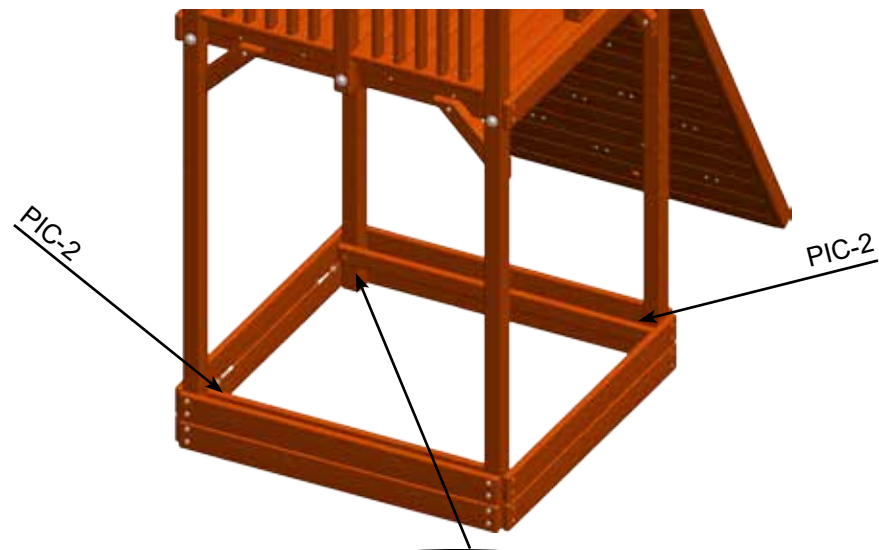
# Bengal Main Assembly

## PARTS NEEDED

PIC-2- Uni. Fort Picnic Table Supports- (2)  
Picnic Seat Assembly- (2)

## HARDWARE NEEDED

PH-3- 3/8" x 3 1/2" Hex Lag Screw- (4)  
PH-5- 3/8" USS Flatwasher- (4)  
PH-2- 1/4" x 4 1/2" Hex Lag Screw- (8)  
PH-4- 1/4" USS Flatwasher- (8)



# Bengal Main Assembly

## PARTS NEEDED

PIC-2- Uni. Fort Picnic Table Supports- (2)

## HARDWARE NEEDED

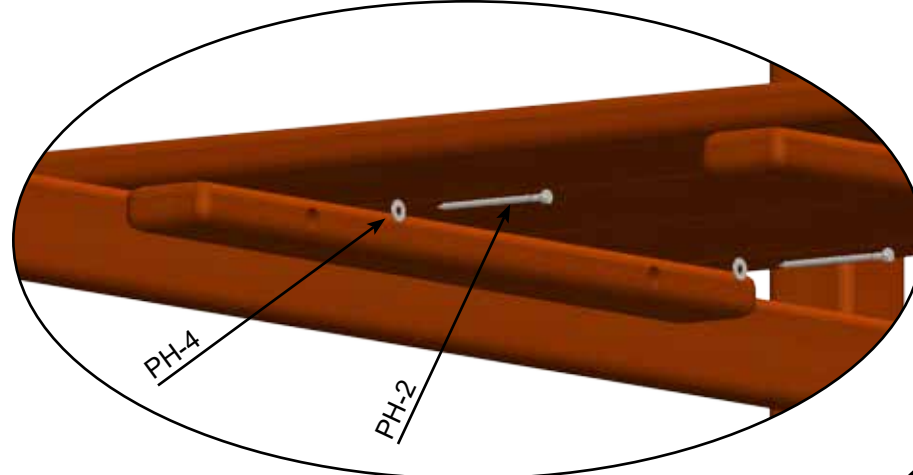
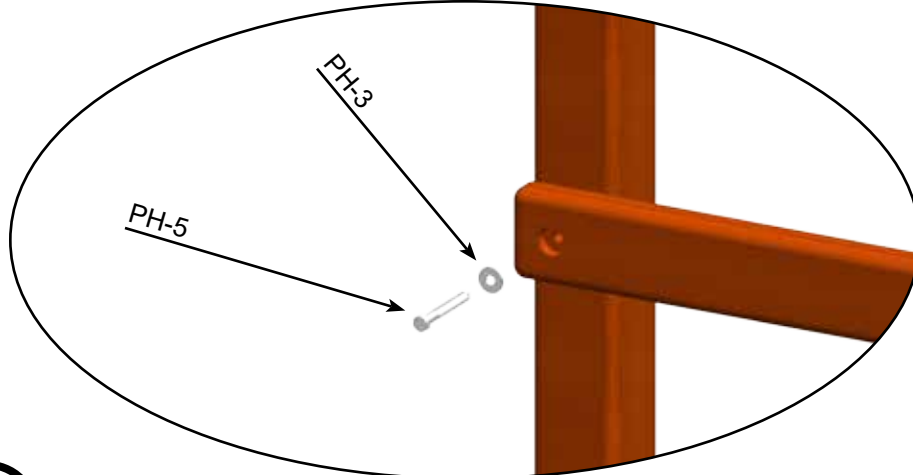
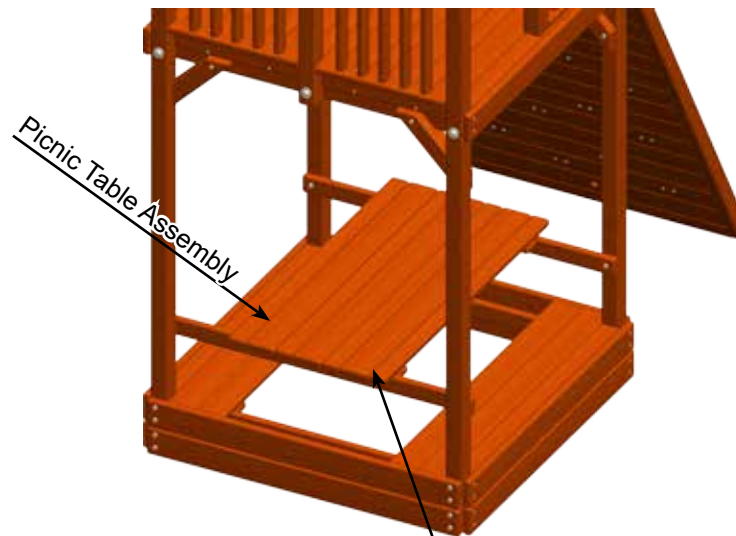
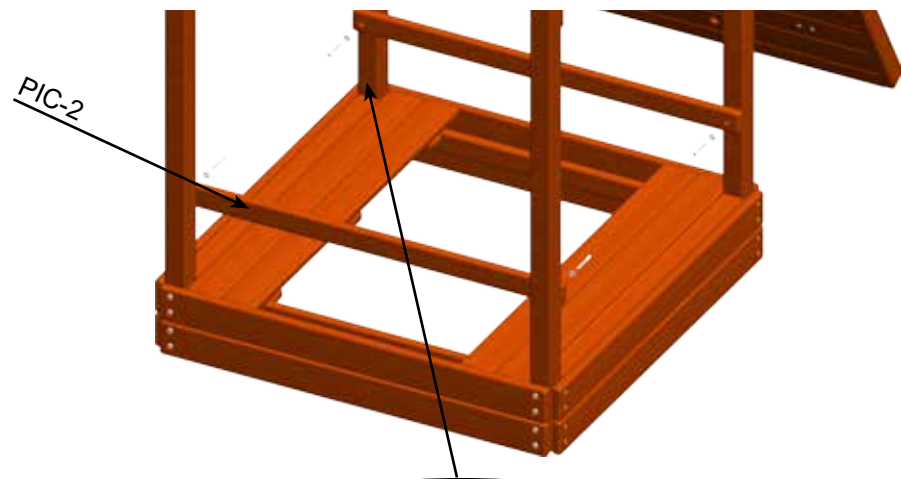
PH-3- 3/8" USS Flatwasher- (4)

PH-4- 1/4" USS Flatwasher- (4)

PH-2- 1/4" x 4 1/2" Hex Lag Screw- (4)

PH-5- 3/8" x 3 1/2" Hex Lag Screw- (4)

There is a 22" gap from the ground to the bottom of the support





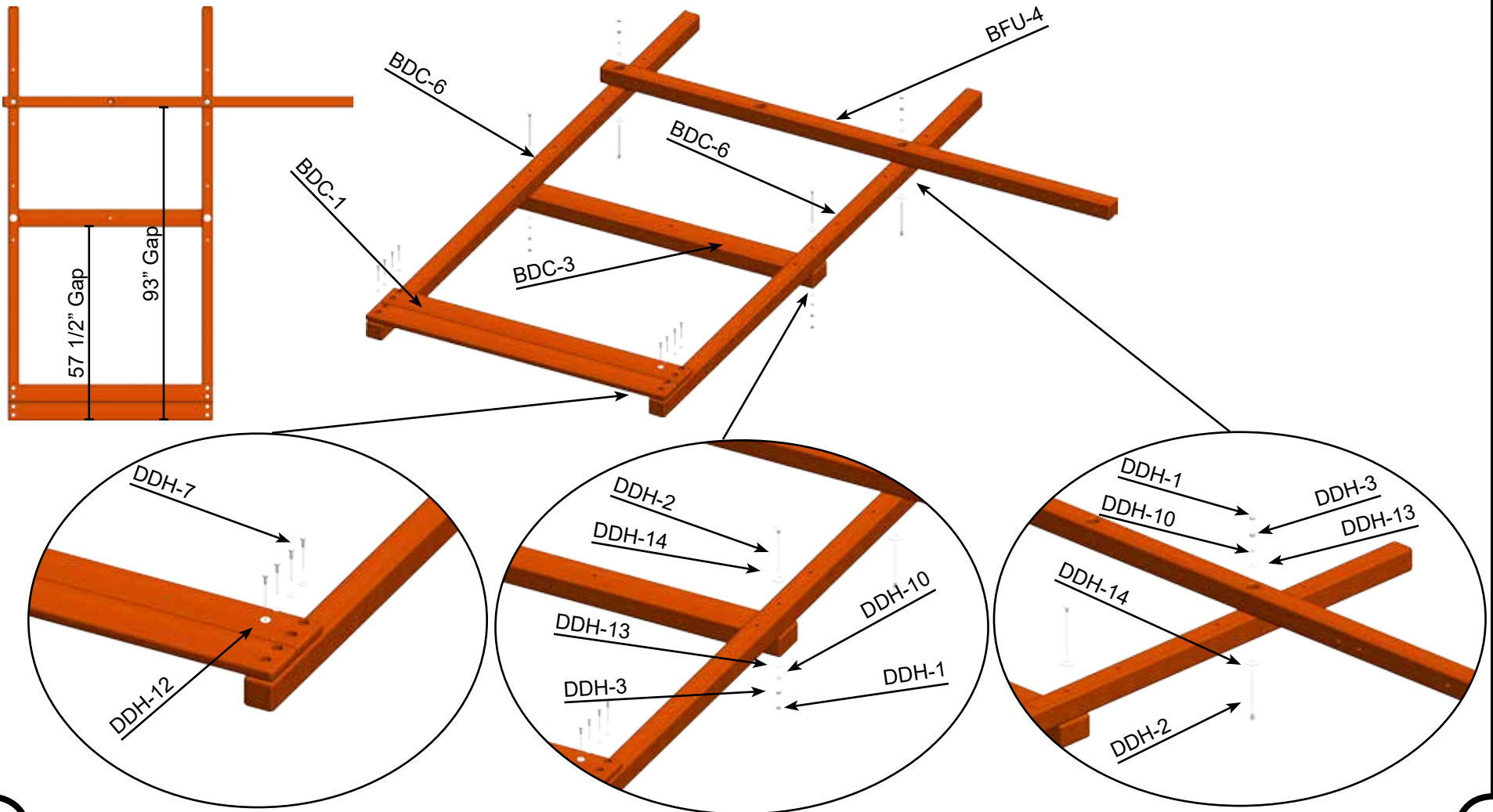
# Double Decker Wall Assembly

## PARTS NEEDED

BDC-1- Uni. Fort 4- Hole Facia- (2)  
 BDC-6- Fort DD Corner Post- (2)  
 BDC-3- Uni. Fort Mainbeam- (1)  
 BFU-4- Uni. Fort Trapeze Arm- (1)

## HARDWARE NEEDED

DDH-12- 3/8" USS Flatwasher- (8)	DDH-7- 3/8" x 3 1/2" Hex Lag Screw- (8)
DDH-2- 1/2" x 7" Carriage Bolt- (4)	DDH-14- 3/4" USS Flatwasher- (4)
DDH-13- 1/2" USS Flatwasher- (4)	DDH-10- 1/2" Split Lockwasher- (4)
DDH-3- 1/2" Hex Nut- (4)	DDH-1- 1/2" Acorn Nut Plated- (4)



# Double Decker Wall Assembly

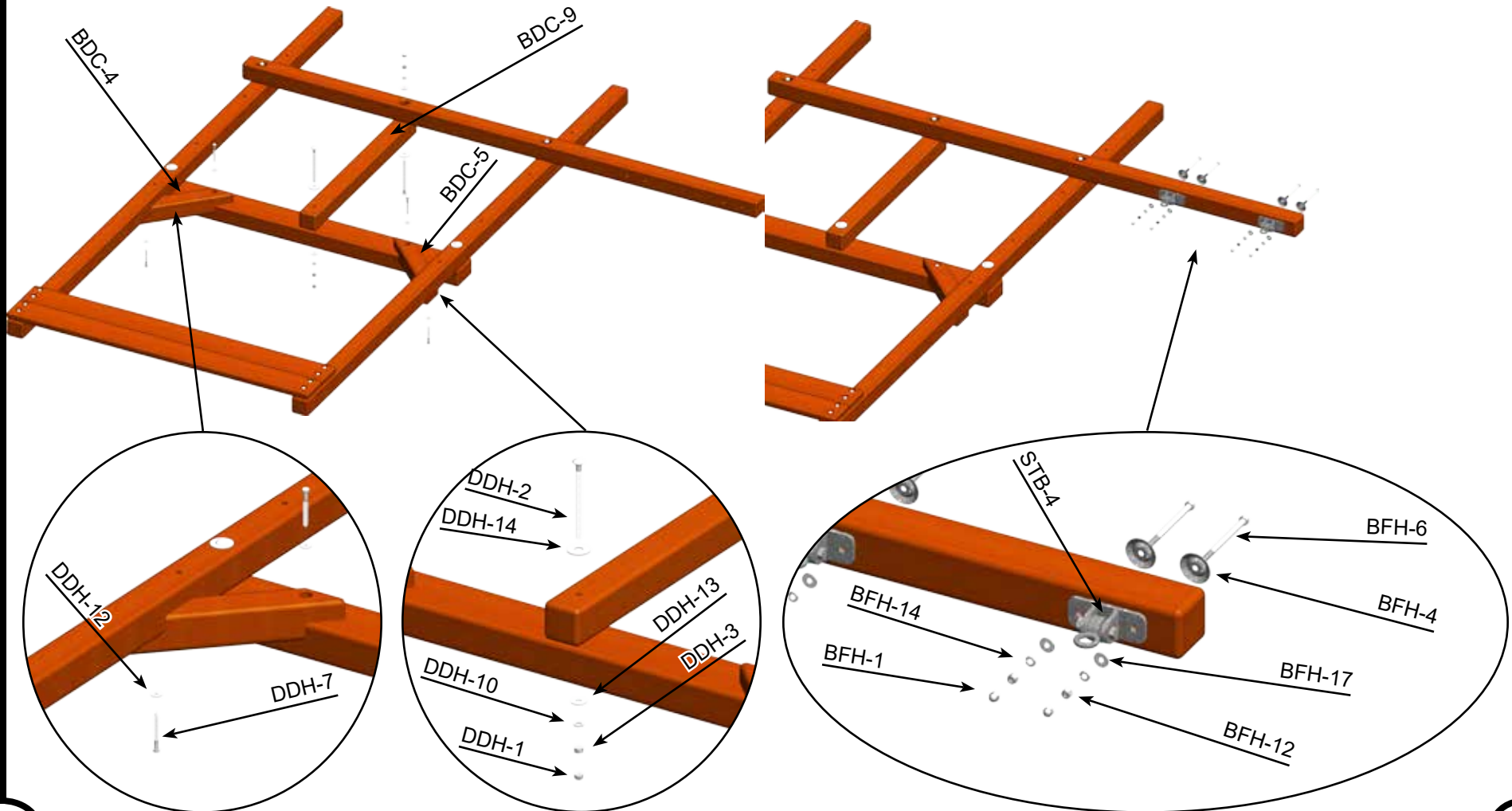
## PARTS NEEDED

BDC-4- (L) Gusset Bracket-  
 BDC-5- (R) Gusset Bracket-  
 BDC-9- Uni. Fort Center Upright-  
 STB-4- Ductile Hangers-

(1) DDH-12- 3/8" x 3 1/2" Hex Lag Screw-  
 (1) DDH-2- 1/2" x 7" Carriage Bolt-  
 (1) DDH-13- 1/2 USS Flatwasher-  
 (2) DDH-3- 1/2" Hex Nut-  
 BFH-6- 3/8" x 5" Hex Bolt-  
 BFH-17- 3/8" USS Flatwasher-  
 BFH-12- 3/8" Nylon Insert Locknut-

## HARDWARE NEEDED

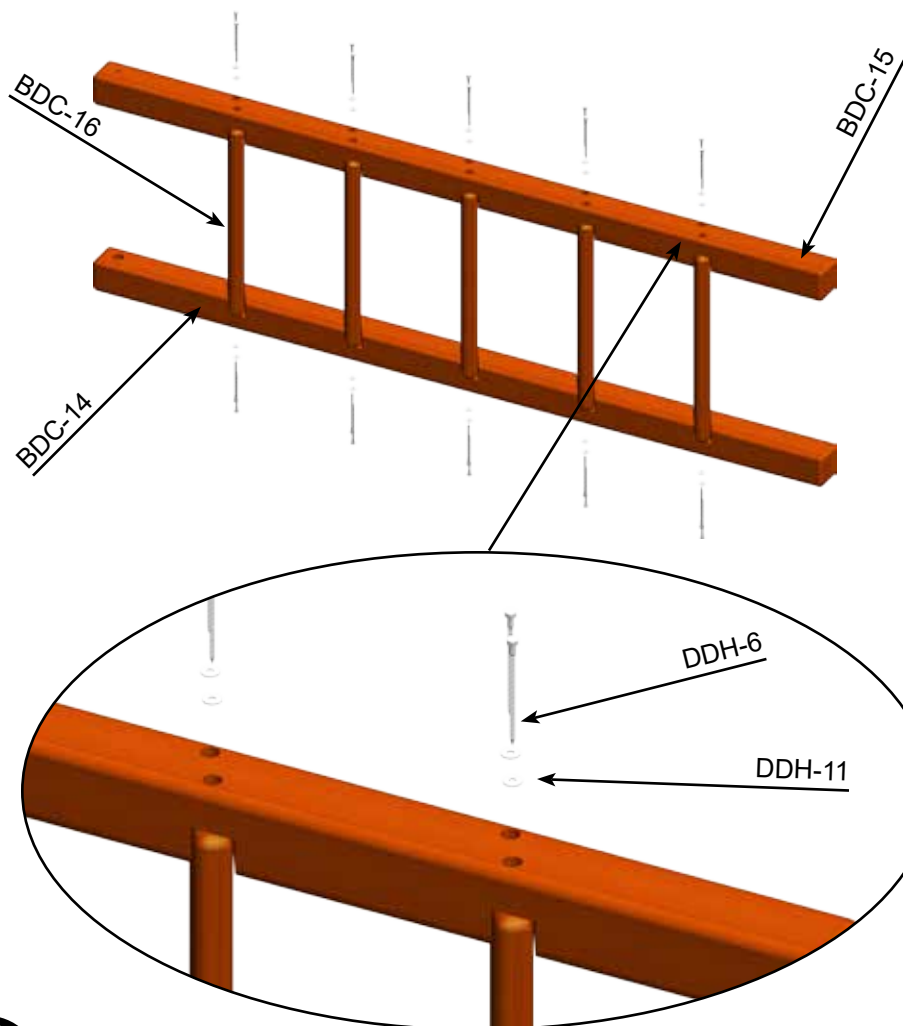
(4) DDH-7- 3/8" USS Flatwasher-  
 (2) DDH-14- 3/4" USS Flatwasher-  
 (2) DDH-10- 1/2" Split Lockwasher-  
 (2) DDH-1- 1/2" Acorn Nut Plated-  
 (4) BFH-4- 3/8" Bolt Cup-  
 (4) BFH-14- 3/8" Split Lockwasher-  
 (4) BFH-1- 3/8" Acorn Nut Plated-



# Double Decker Ladder

## PARTS NEEDED

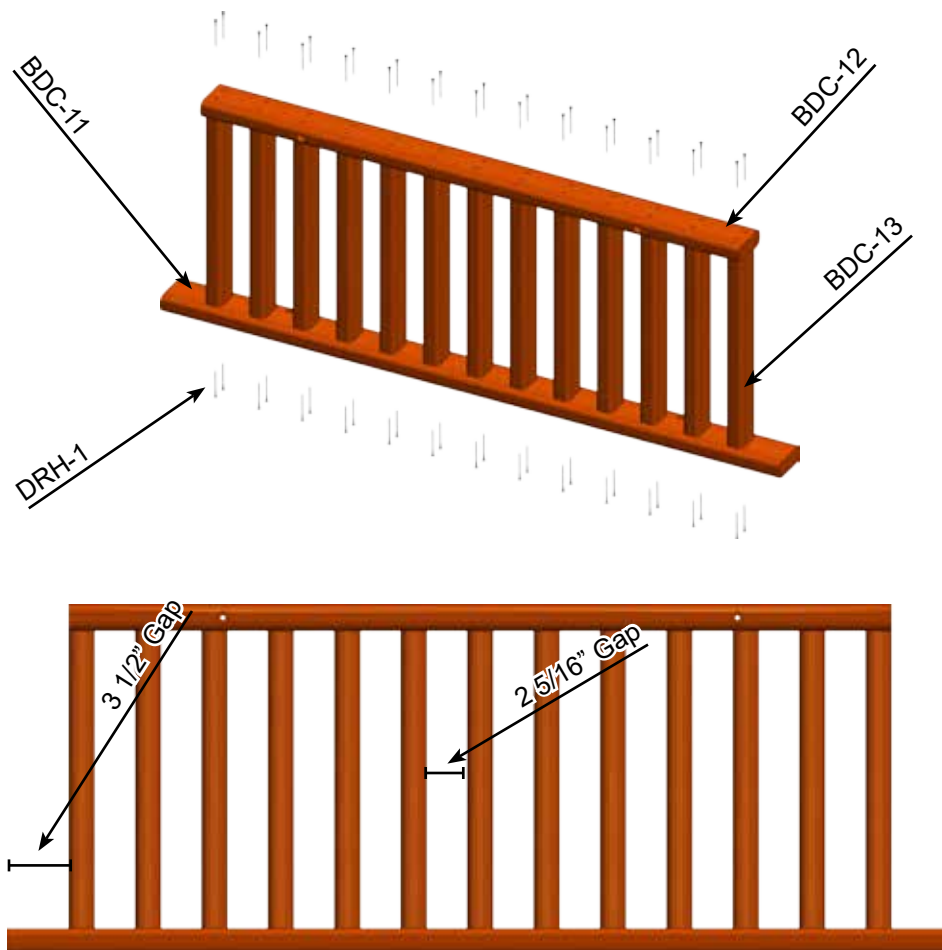
BDC-16- Uni. Fort Ladder Step-	(5)
BDC-14- Fort Left Ladder Leg-	(1)
BDC-15- Fort Right Ladder Leg-	(1)
BDC-11- Double Decker Rail Bottom-	(1)
BDC-12- Double Decker Rail Bottom-	(1)
BDC-13- Double Decker Rail Spindle-	(13)



# Double Decker Rail

## HARDWARE NEEDED

DDH-6- 1/4" x 4 1/2" Hex Lag Screw-	(20)
DRH-1- 2 1/2" Coated Deck Screw-	(52)



# Double Decker Assembly

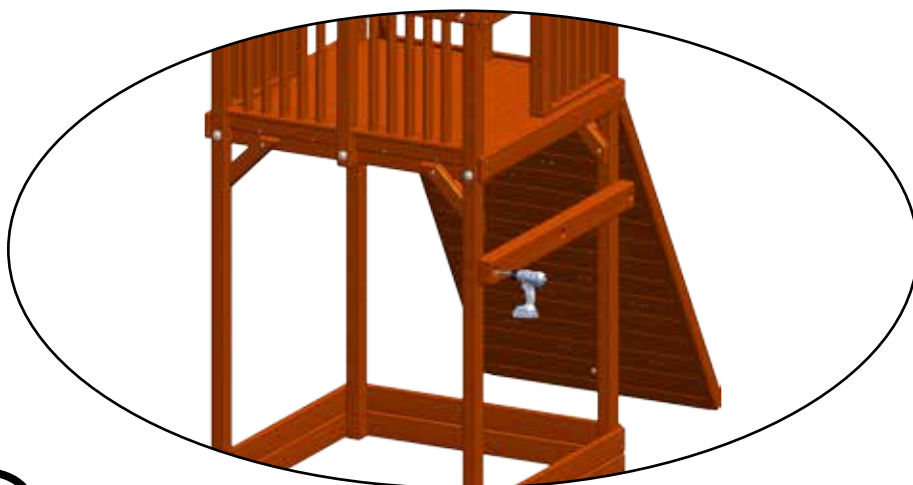
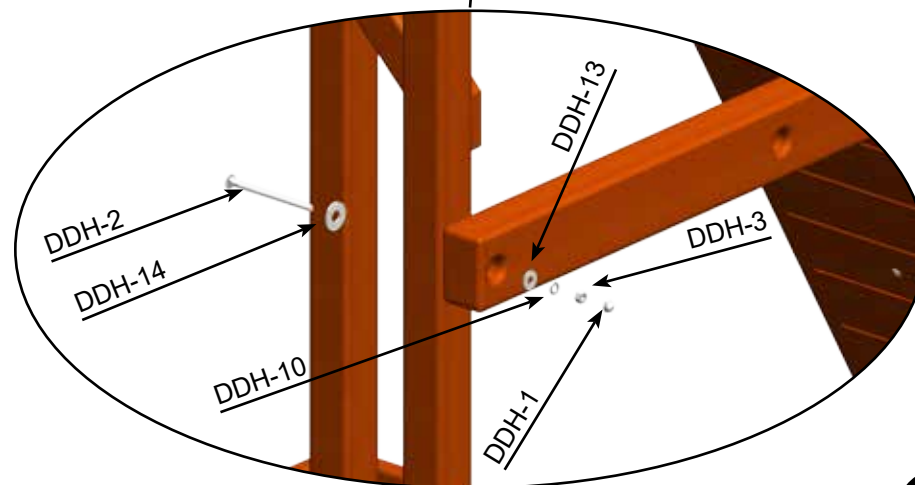
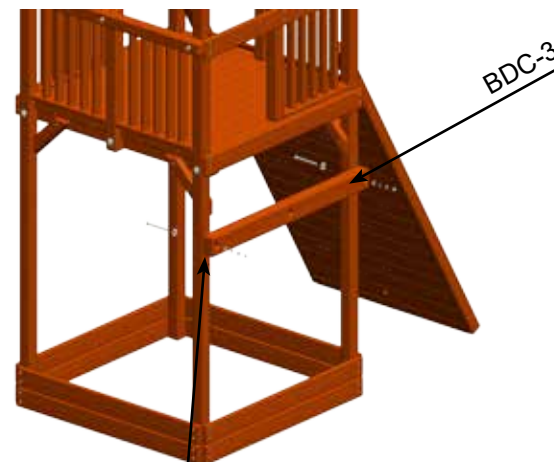
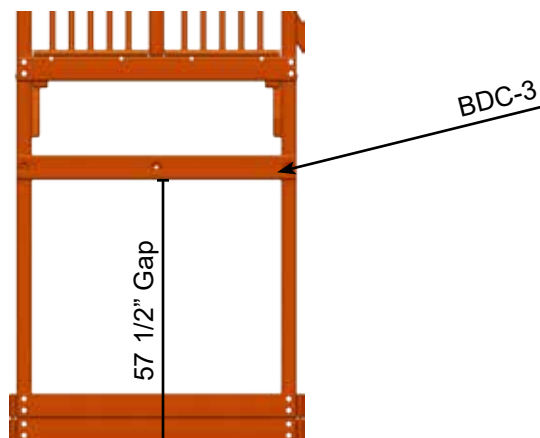
## PARTS NEEDED

BDC-3- Universal Fort Mainbeam- (1)

## HARDWARE NEEDED

DDH-2- 1/2" x 7" Carriage Bolt- (2)  
DDH-14- 3/4" USS Flatwasher- (2)  
DDH-13- 1/2" USS Flatwasher- (2)  
DDH-10- 1/2" Split Lockwasher- (2)  
DDH-3- 1/2" Hex Nut- (2)  
DDH-1- 1/2" Acorn Nut Plated- (2)

For this step we need to clamp the BDC-3 at 57 1/2" to the Bengal Corner Posts and drill a 9/16" hole through the Mainbeam and Corner Posts



# Double Decker Assembly

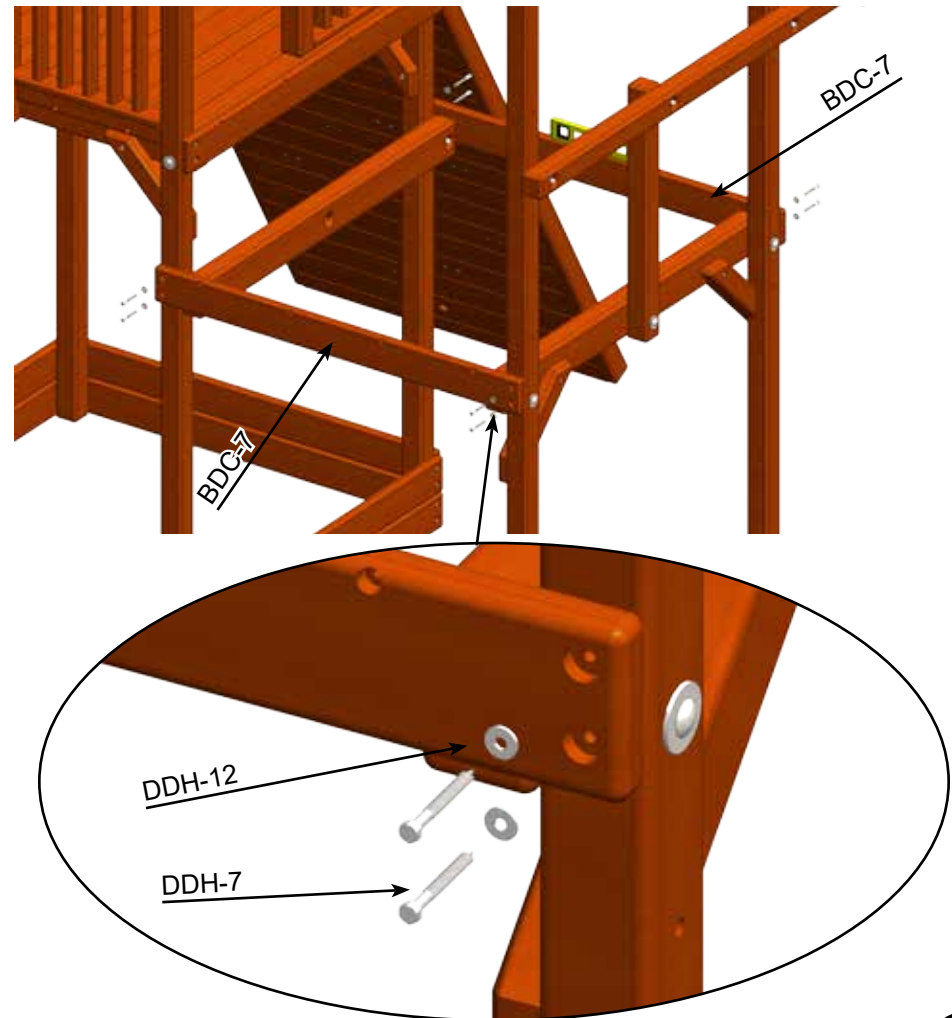
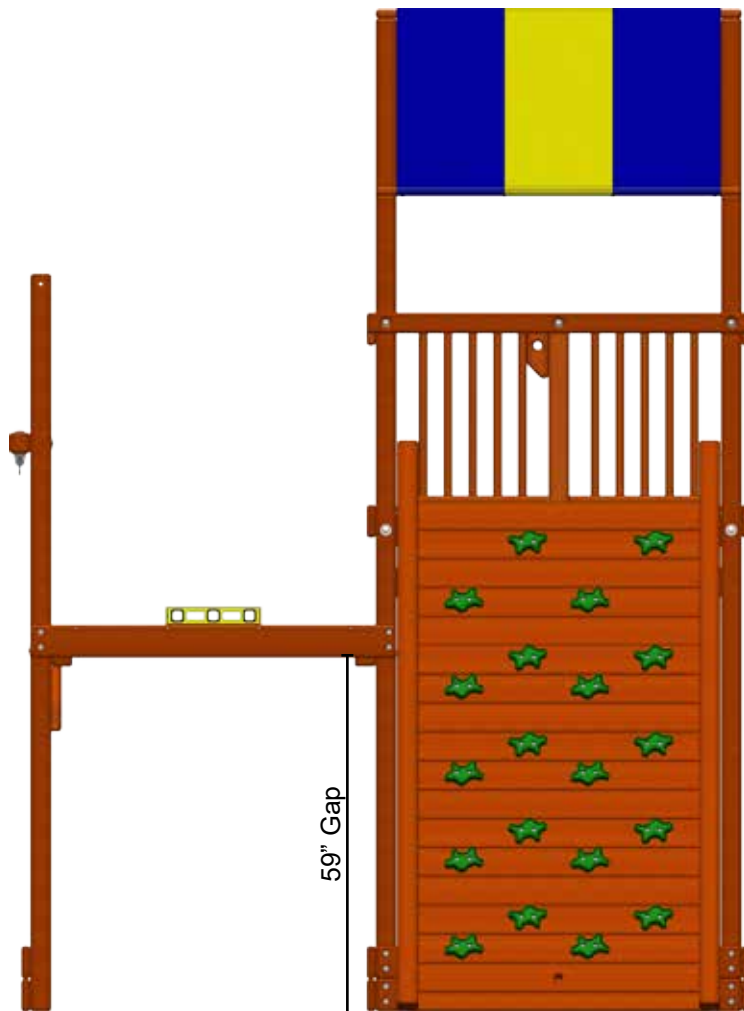
## PARTS NEEDED

BDC-7- Universal Fort 8 Hole Facia- (2)

## HARDWARE NEEDED

DDH-7- 3/8" x 3 1/2" Hex Lag Screw- (8)

DDH-12- 3/8" USS Flatwasher- (8)





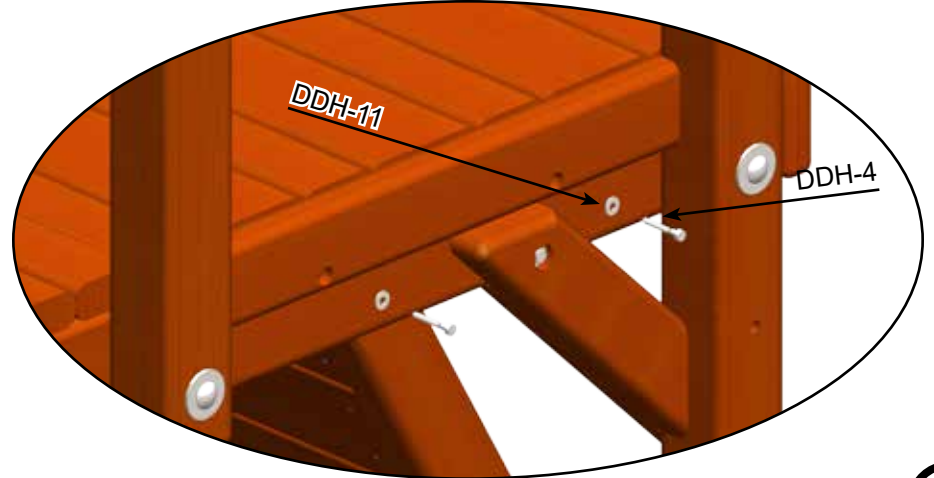
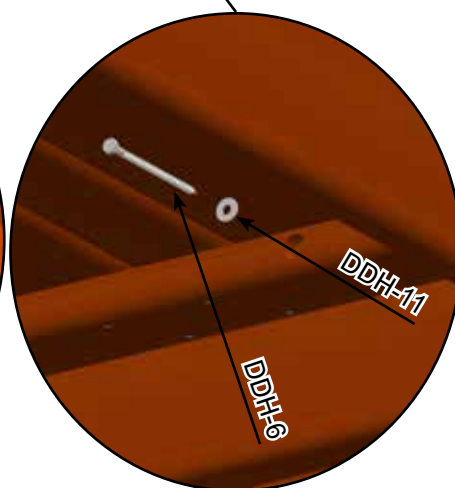
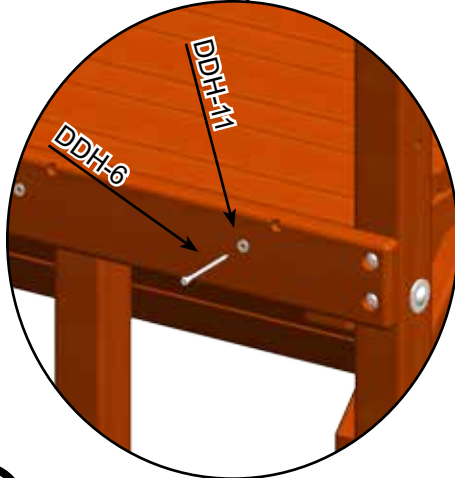
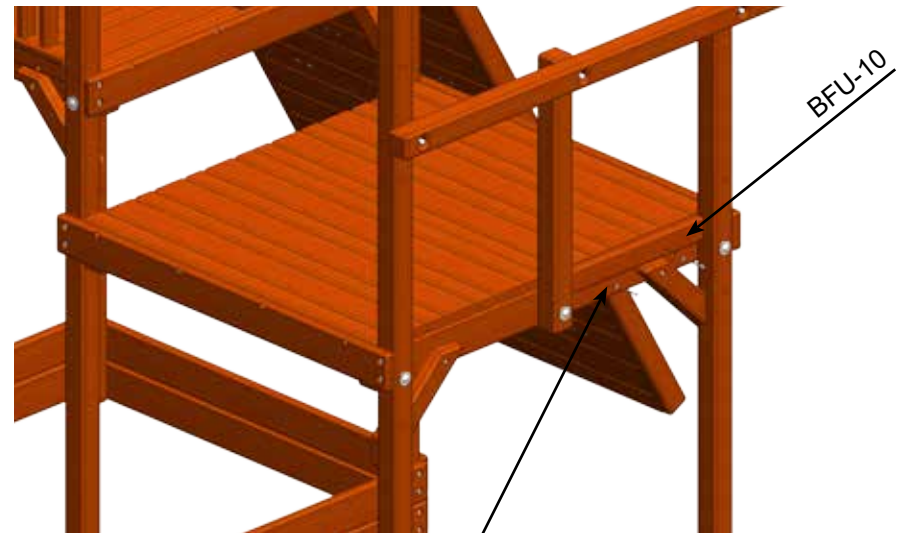
# Double Decker Assembly

## PARTS NEEDED

Universal Deck- (2)  
BFU-10- Universal Rail Bottom- (1)

## HARDWARE NEEDED

DDH-11- 1/4" USS Flatwasher- (18)  
DDH-6- 1/4" x 4 1/2" Hex Lag Screw- (16)  
DDH-4- 1/4" x 3" Hex Lag Screw- (2)



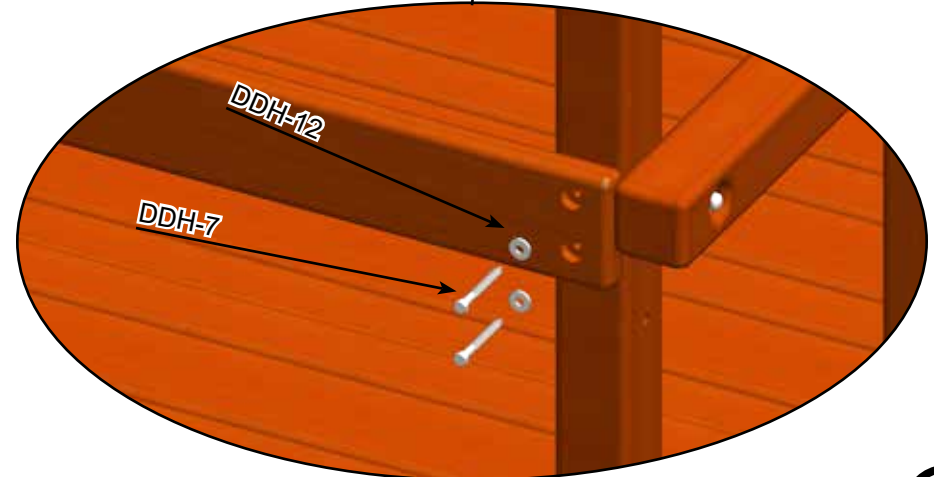
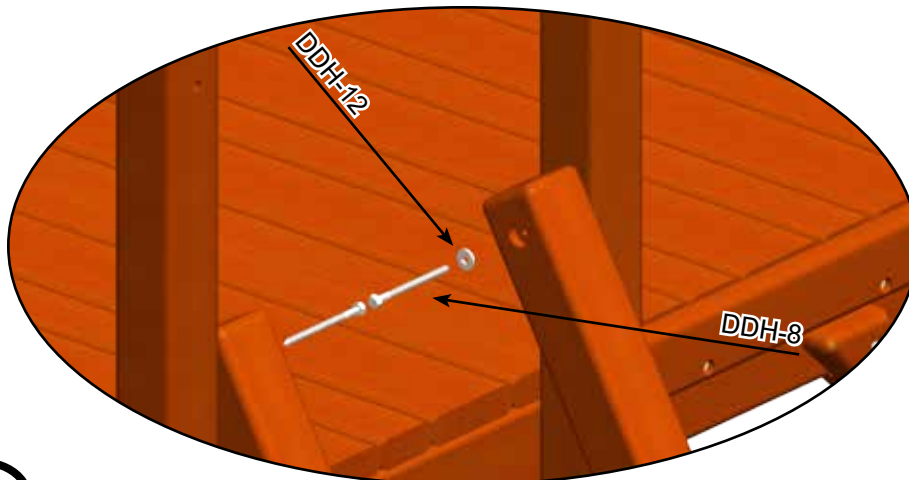
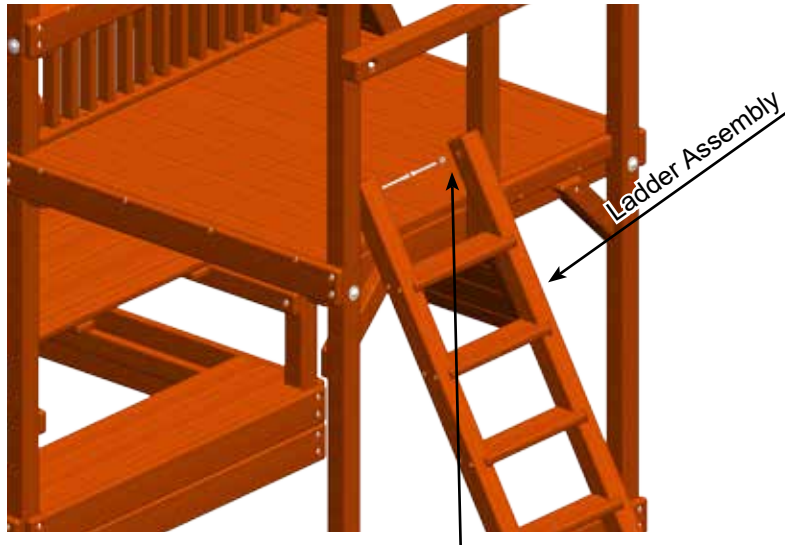
# Double Decker Assembly

## PARTS NEEDED

Ladder Assembly- (1)  
BDC-10- Universal 6 Hole Facia- (2)

## HARDWARE NEEDED

DDH-12- 3/8" USS Flatwasher- (10)



# Double Decker Assembly

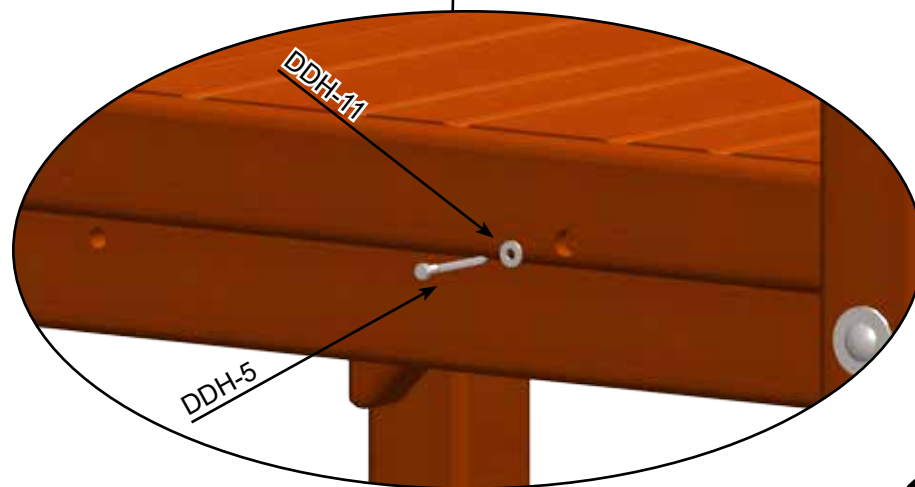
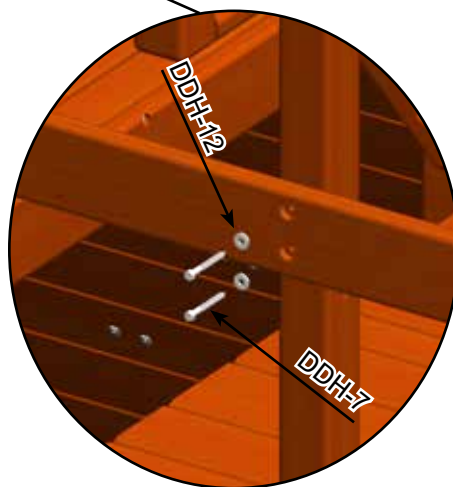
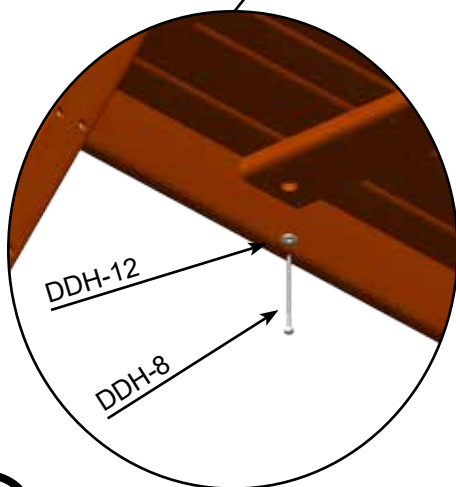
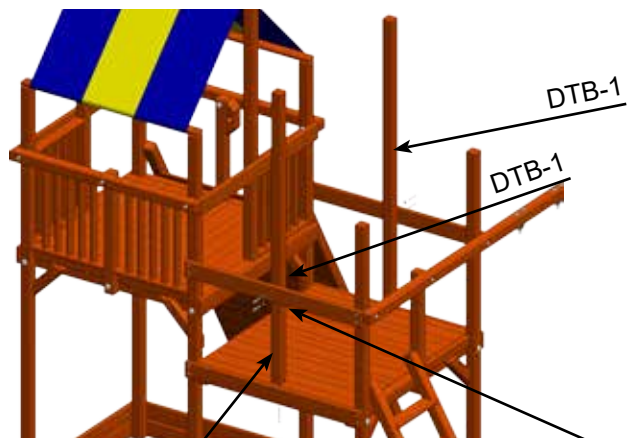
## PARTS NEEDED

DTB-1- Double Decker Tarp Center Post- (1)  
BDC-11- Double Decker Rail Bottom- (1)

## HARDWARE NEEDED

DDH-12- 3/8" USS Flatwasher- (6)  
DDH-8- 3/8" x 5" Hex Lag Screw- (2)  
DDH-7- 3/8" x 3 1/2" Hex Lag Screw- (4)  
DDH-11- 1/4" USS Flatwasher- (2)  
DDH-5- 1/4" x 3" Hex Lag Screw- (2)

Skip Step if you have a Wood Roof





# Double Decker Wood Roof

## PARTS NEEDED

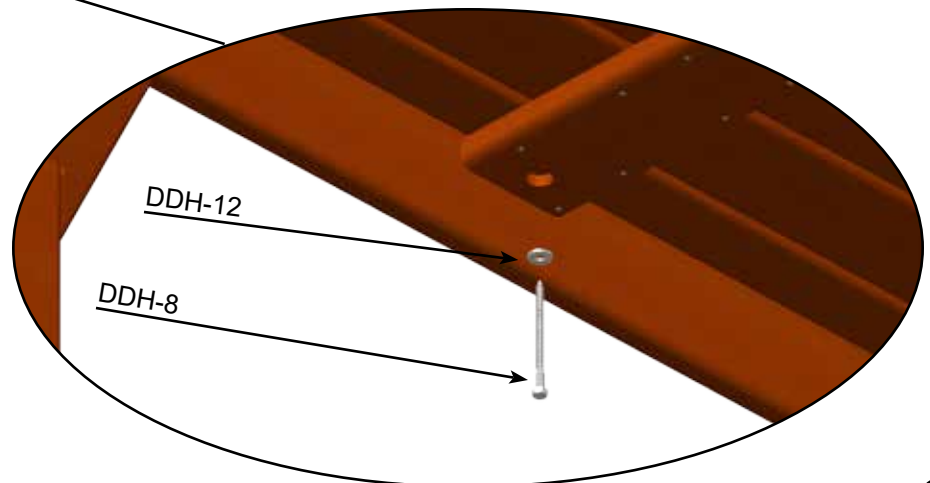
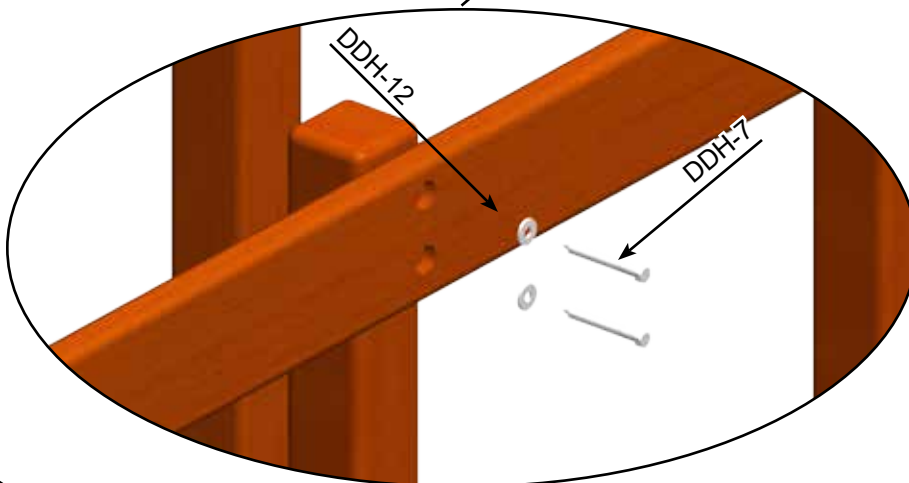
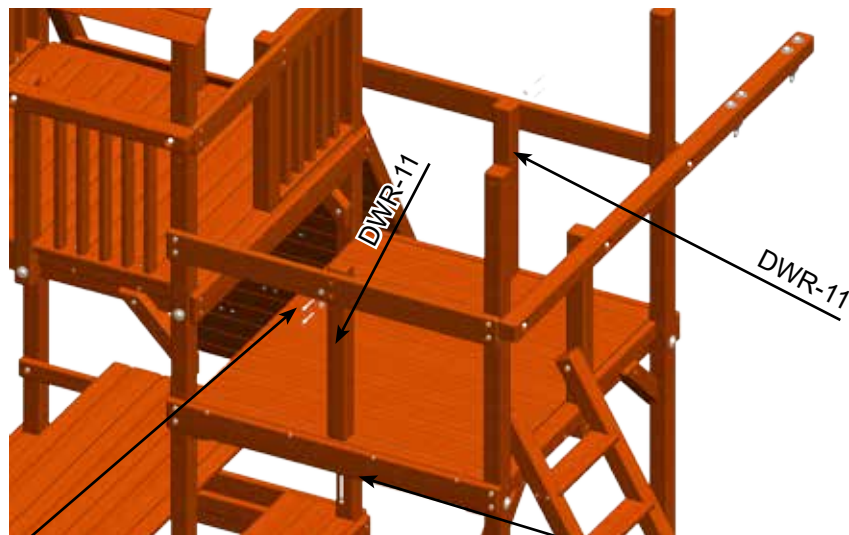
DWR-11- Universal Fort WR Center Post- (2)

## HARDWARE NEEDED

DDH-12- 3/8" USS Flatwasher- (6)

DDH-7- 3/8" x 3 1/2" Hex Lag Screw- (4)

DDH-8- 3/8" x 5" Hex Lag Screw- (2)



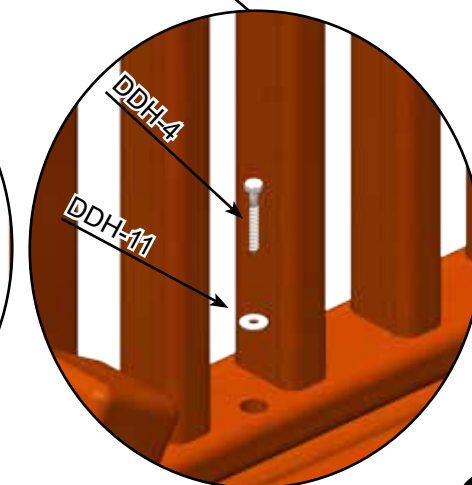
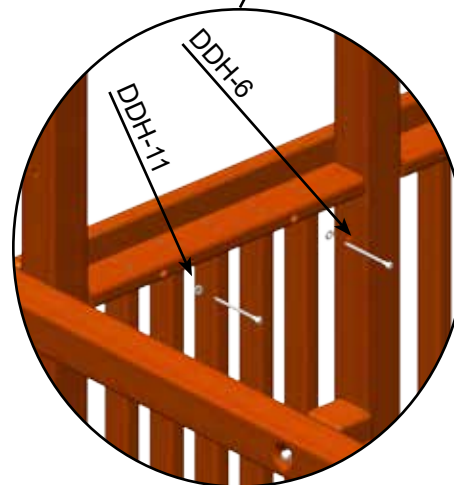
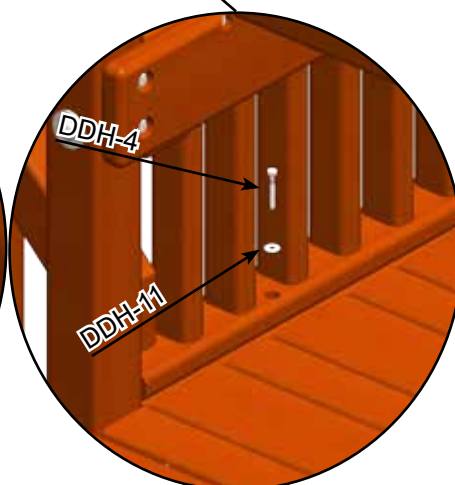
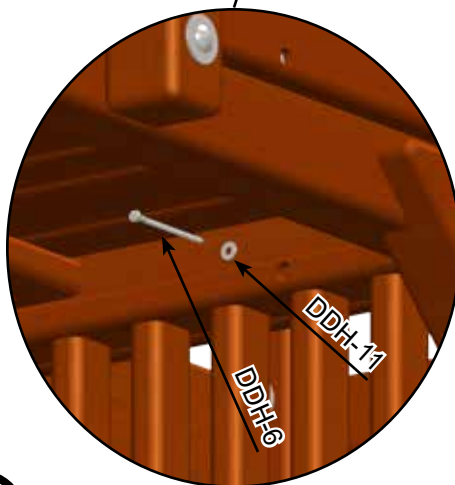
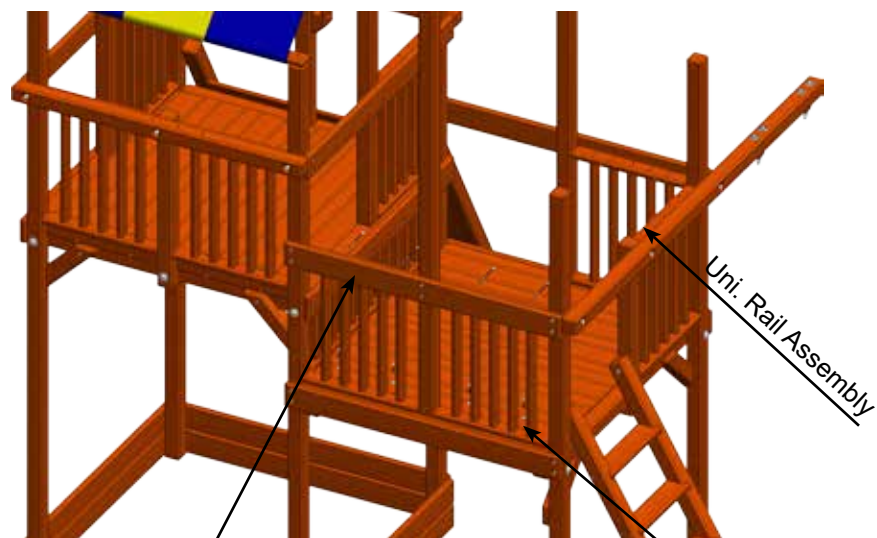
# Double Decker Assembly

## PARTS NEEDED

Double Decker Rail- (1)  
Uni. Rail Assembly- (4)

## HARDWARE NEEDED

DDH-6- 1/4" x 4 1/2" Hex Lag Screw- (10)  
DDH-11- 1/4" USS Flatwasher- (20)  
DDH-4- 1/4" x 2" Hex Lag Screw- (10)



# Double Decker Wood Roof

## PARTS NEEDED

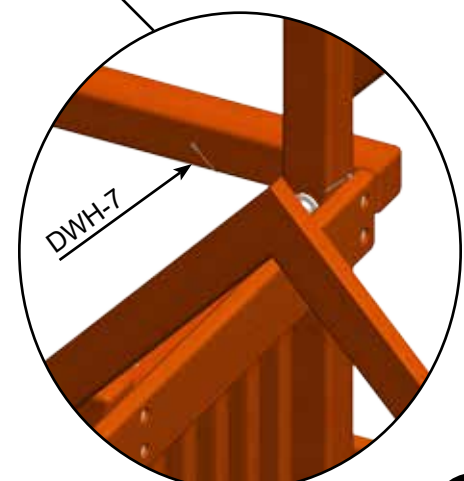
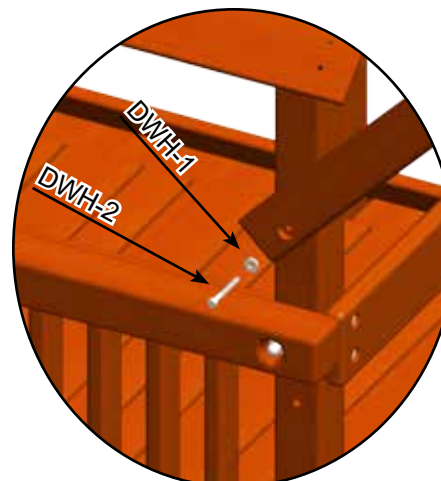
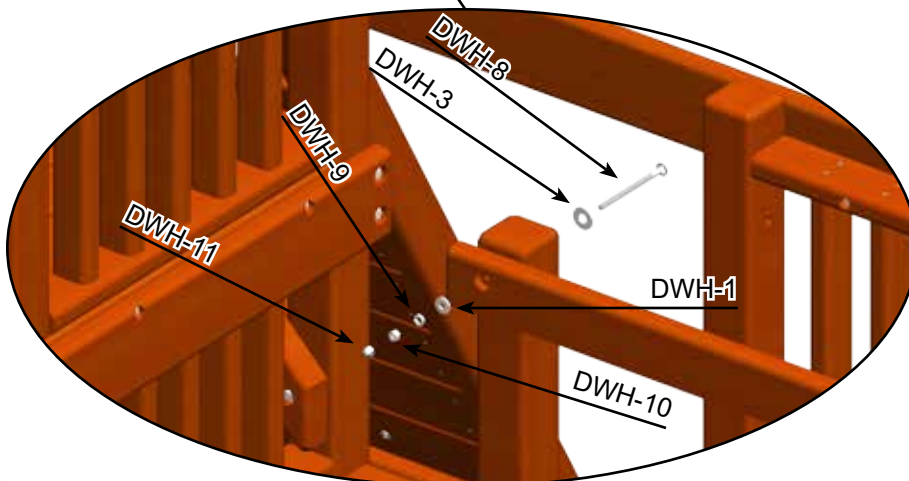
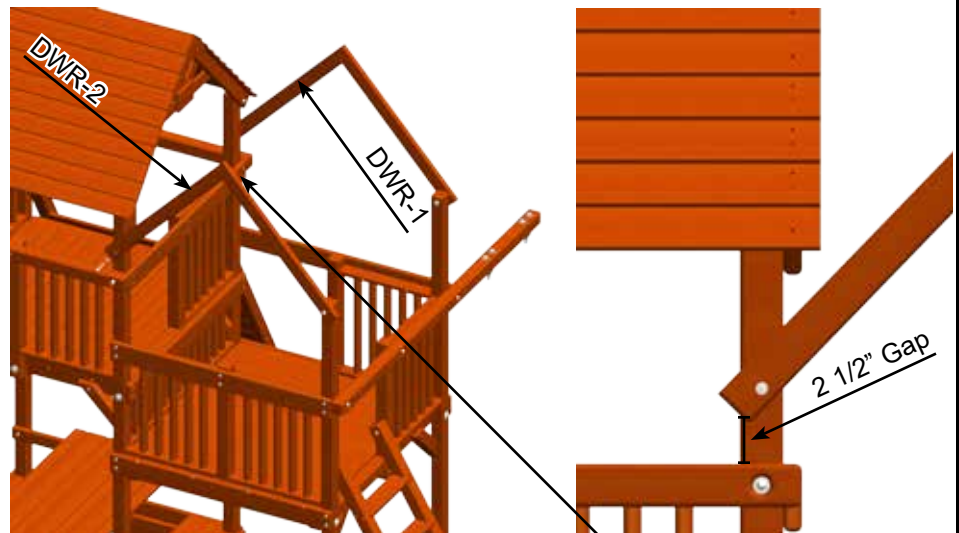
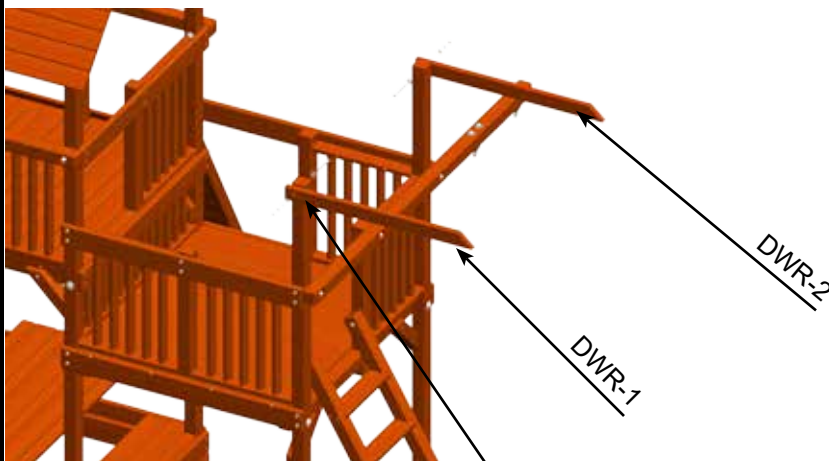
DWR-1- Bengal Fort WR Support (R)- (2)  
DWR-2- Bengal Fort WR Support (L)- (2)

DWH-8- 3/8" x 5 1/2" Carriage Bolt- (2)  
DWH-1- 3/8" USS Flatwasher- (4)  
DWH-10- 3/8" Hex Nut- (2)  
DWH-2- 3/8" x 3 1/2" Hex Lag Screw- (2)

## HARDWARE NEEDED

DWH-3- 1/2" USS Flatwasher- (2)  
DWH-9- 3/8" Split Lockwasher- (2)  
DWH-11- 3/8" Acorn Nut Plated- (2)  
DWH-7- 2 1/2" Coated Deck Screw- (2)

LEAVE SLIGHTLY LOOSE AND TIGHTEN AFTER NEXT STEP





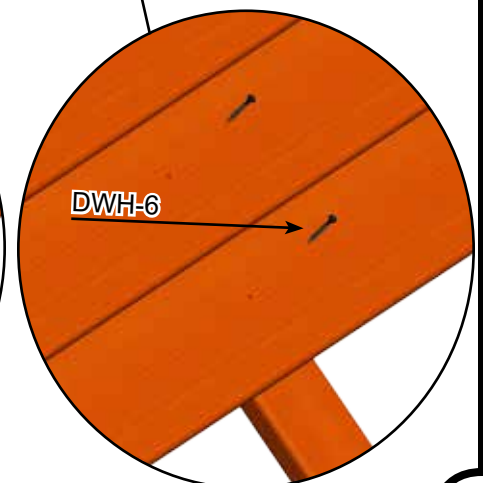
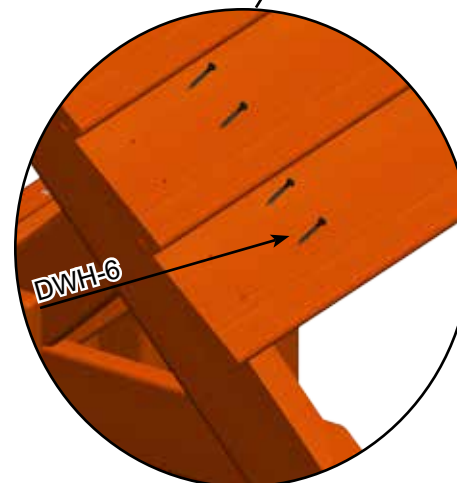
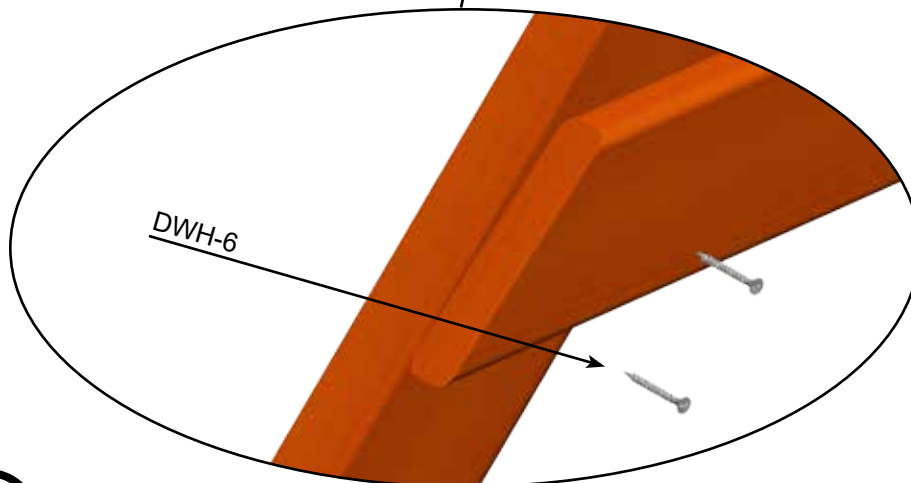
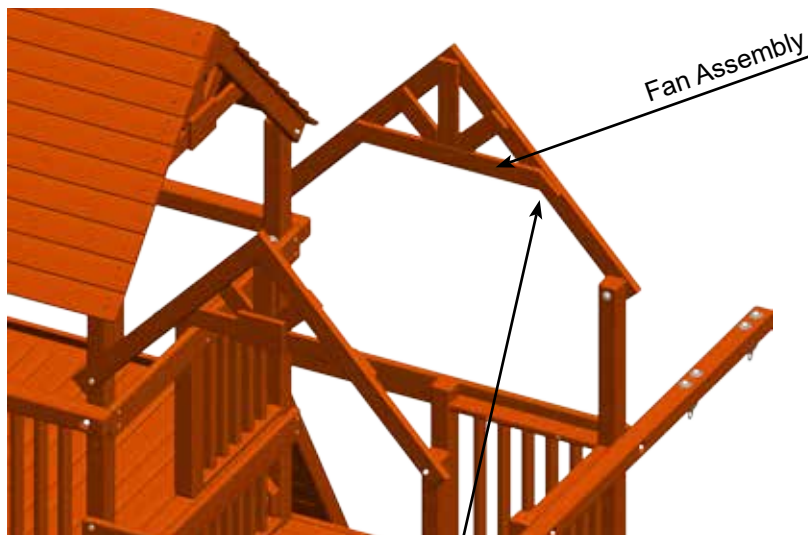
# Double Decker Wood Roof

## PARTS NEEDED

Fan Assembly- (2)  
DWR-4- Bengal Fort Wood Roof Board- (4)  
DWR-3- Bengal Fort WR Center Support- (1)

## HARDWARE NEEDED

DWH-6- 1 5/8" Coated Deck Screws- (40)



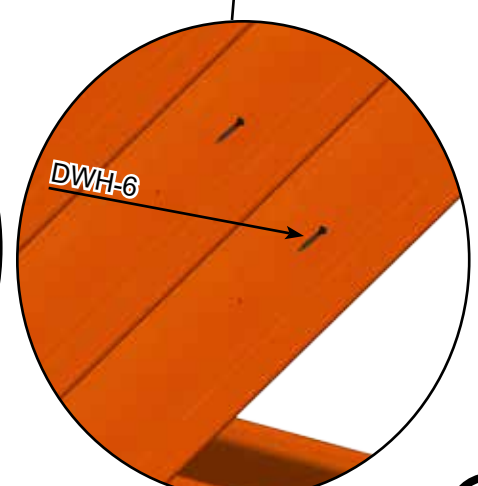
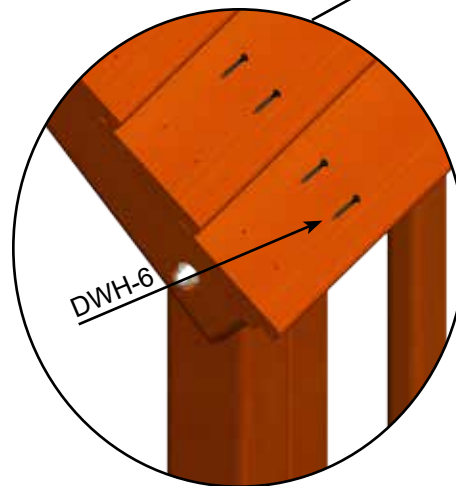
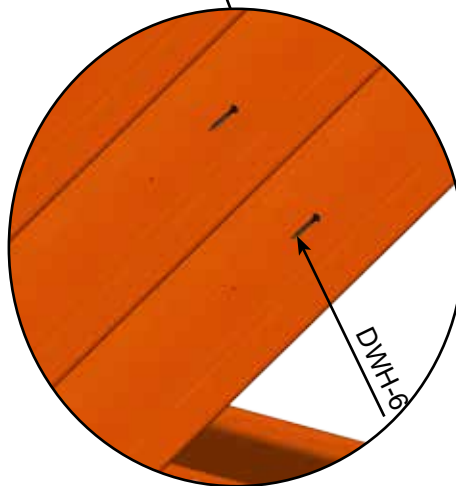
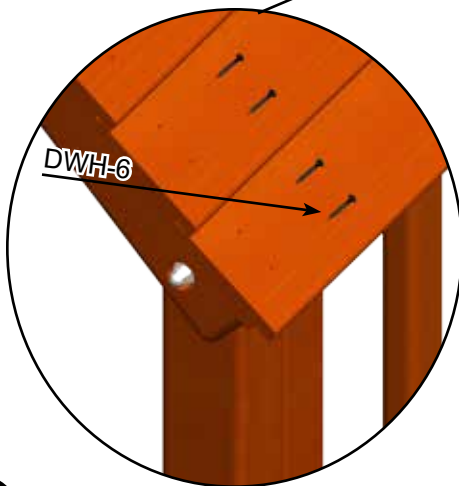
# Double Decker Wood Roof

## PARTS NEEDED

DWR-5- Bengal Fort WR Board- (10)  
DWR-4- DD WR Center Support- (1)

## HARDWARE NEEDED

DWH-6- 1 5/8" Coated Deck Screws- (50)



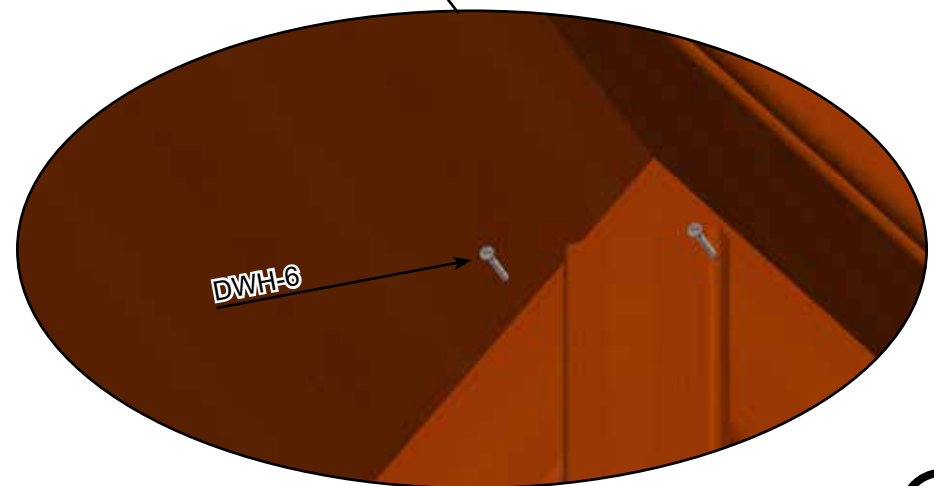
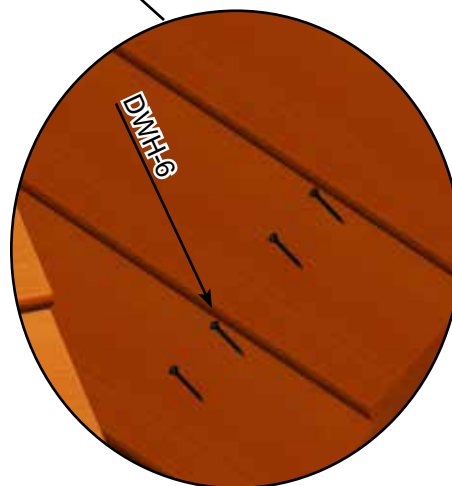
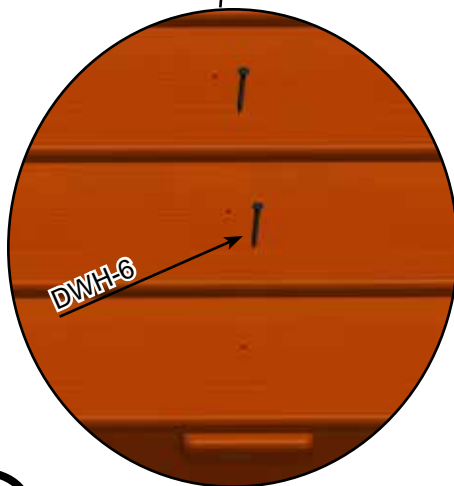
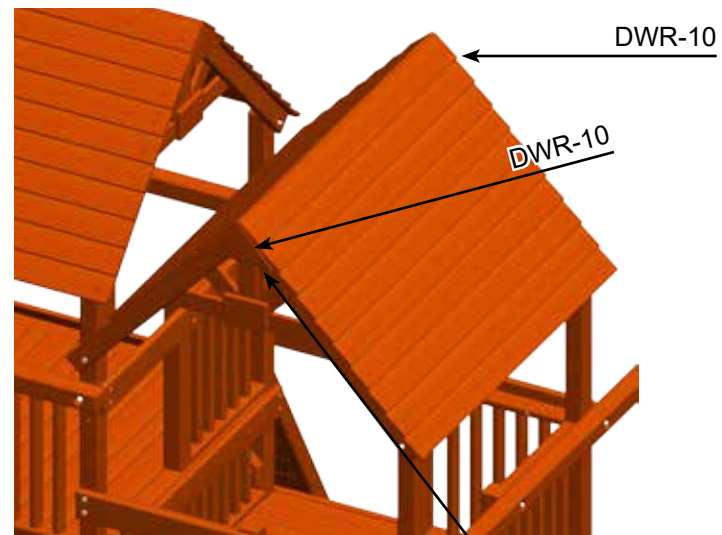
# Double Decker Wood Roof

## PARTS NEEDED

DWR-5- Bengal Fort WR Board- (3)  
DWR-10- Universal WR Peak Facia- (2)

## HARDWARE NEEDED

DWH-6- 1 5/8" Coated Deck Screw- (19)





# Double Decker Tarp Assembly

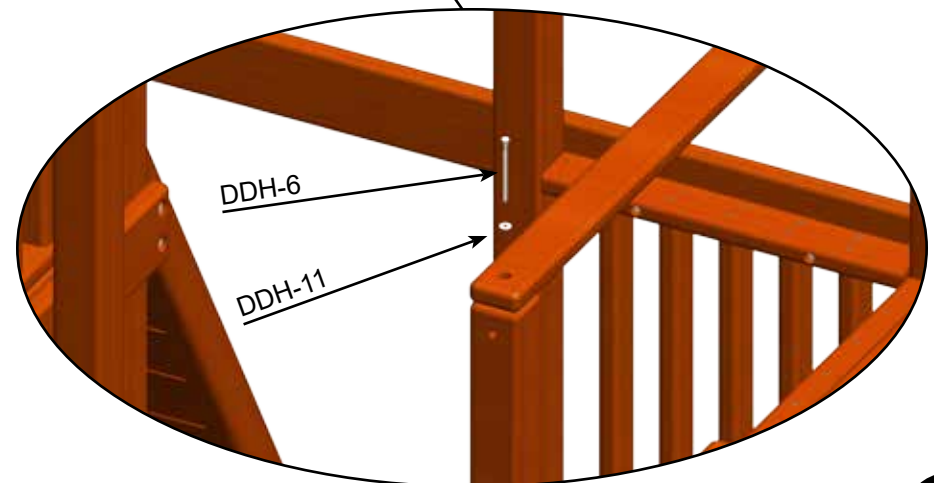
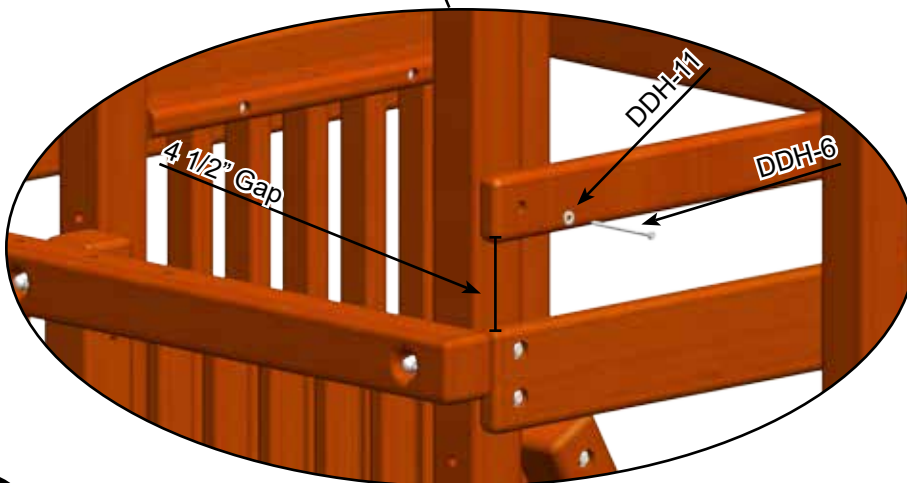
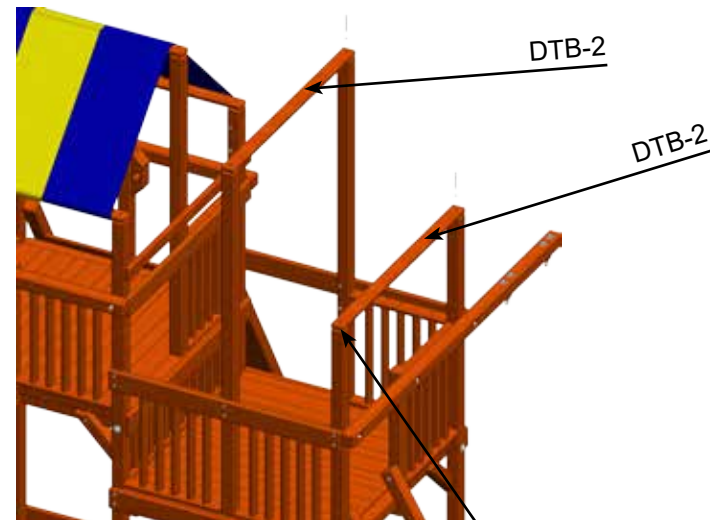
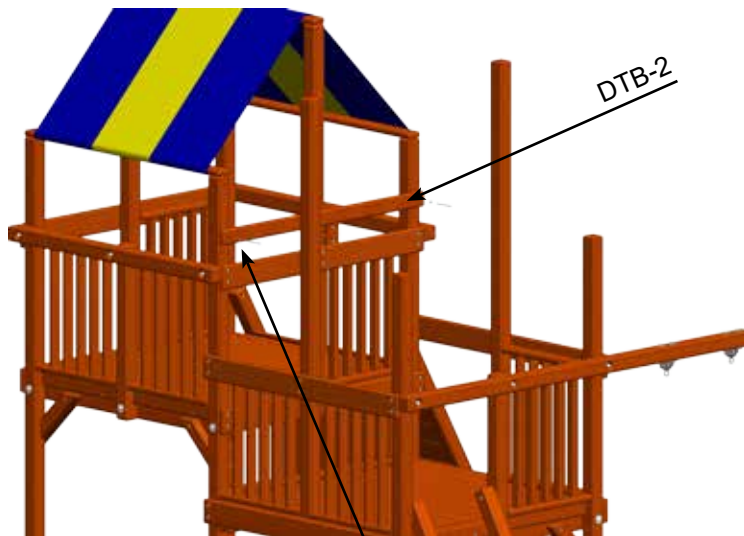
## PARTS NEEDED

DTB-2- Universal Tarp Board- (3)

## HARDWARE NEEDED

DDH-11- 1/4" USS Flatwasher- (6)

DDH-6- 1/4" x 4 1/2" Hex Lag Screw- (6)



# Double Decker Tarp Assembly

## PARTS NEEDED

Double Decker Tarp- (1)  
Slide- (1)

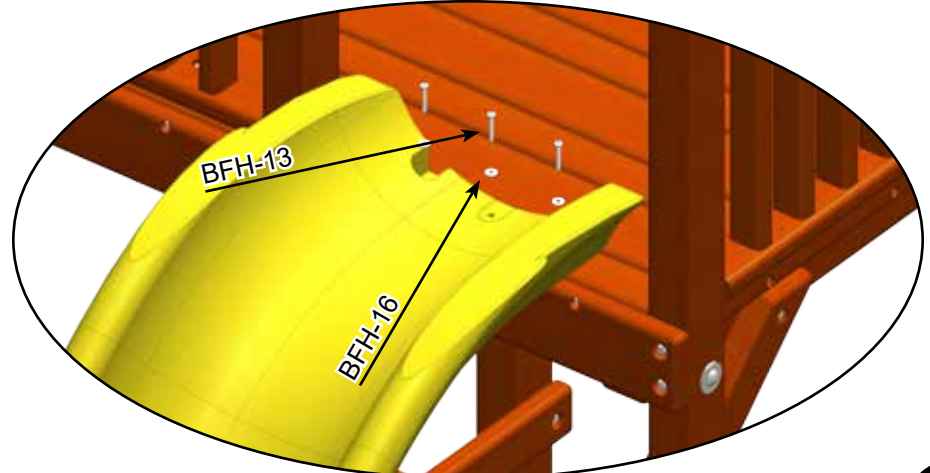
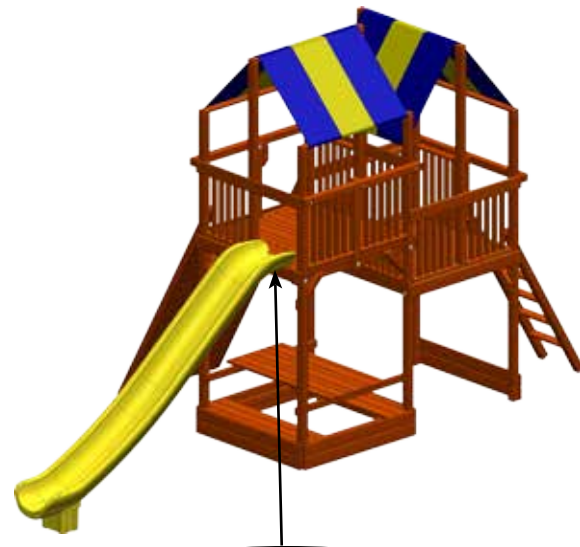


Repeat the tarp install process from before.

# Accessory Installs

## HARDWARE NEEDED

BFH-13- #14 x 1 1/4" Pan Phillips T/S- (2)  
BFH-16- 1/4" USS Flatwasher- (2)





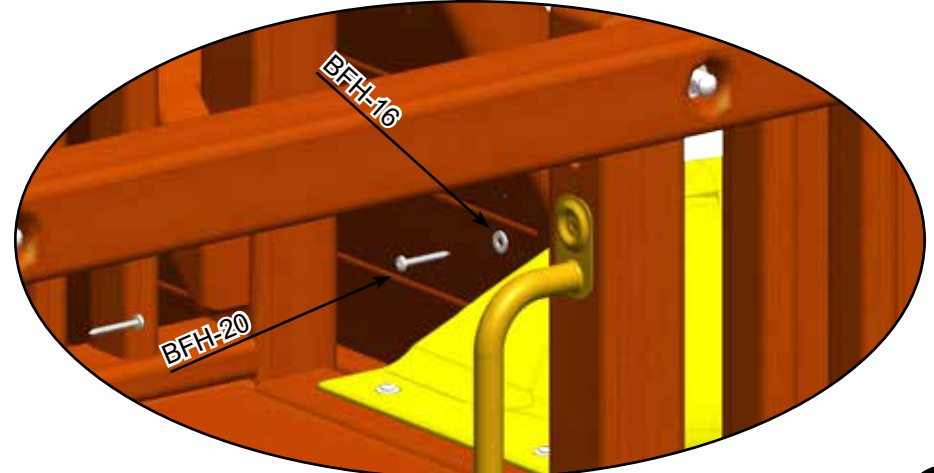
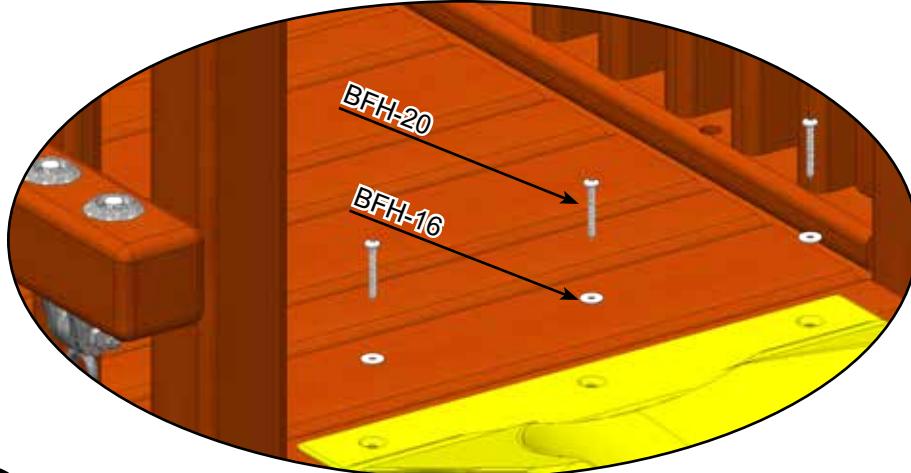
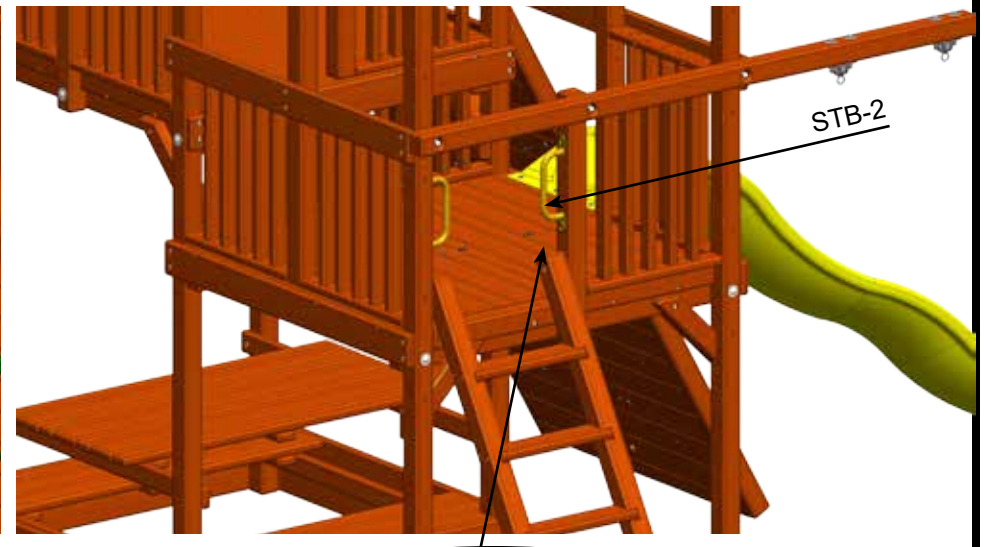
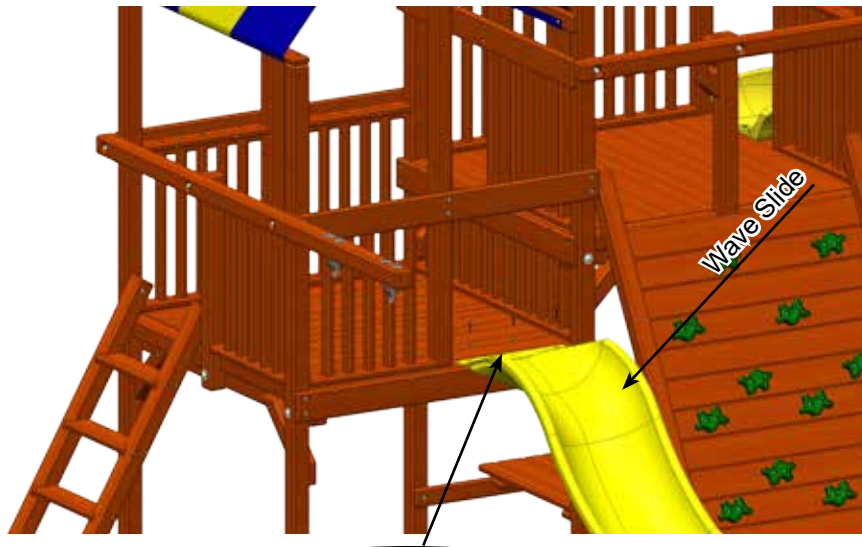
# Accessory Installs

## PARTS NEEDED

Wave Slide- (1)  
STB-2- 1 1/4" Playgrip Safety Handle- (2)

## HARDWARE NEEDED

BFH-20- #14 x 2" Pan Phillips T/S- (7)  
BFH-16- 1/4" USS Flatwasher- (7)



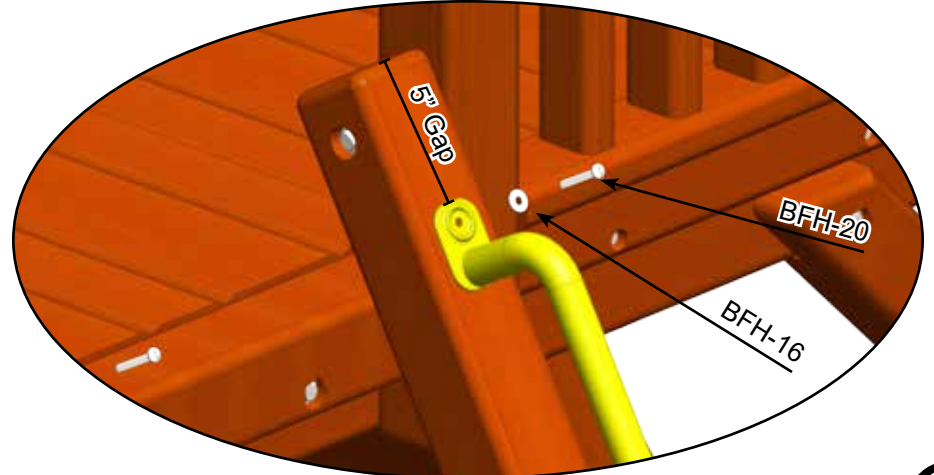
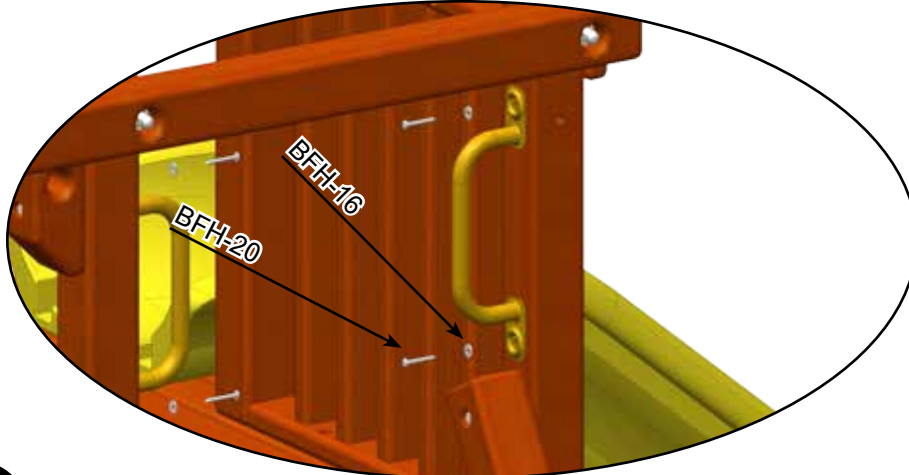
# Accessory Installs

## PARTS NEEDED

STB-2- 1 1/4" Playgrip Safety Handle- (3)  
STB-3- 1 1/4" Playgrip Ladder Handle- (2)

## HARDWARE NEEDED

BFH-20- #14 x 2" Pan Phillips T/S- (10)  
BFH-16- 1/4" USS Flatwasher- (10)



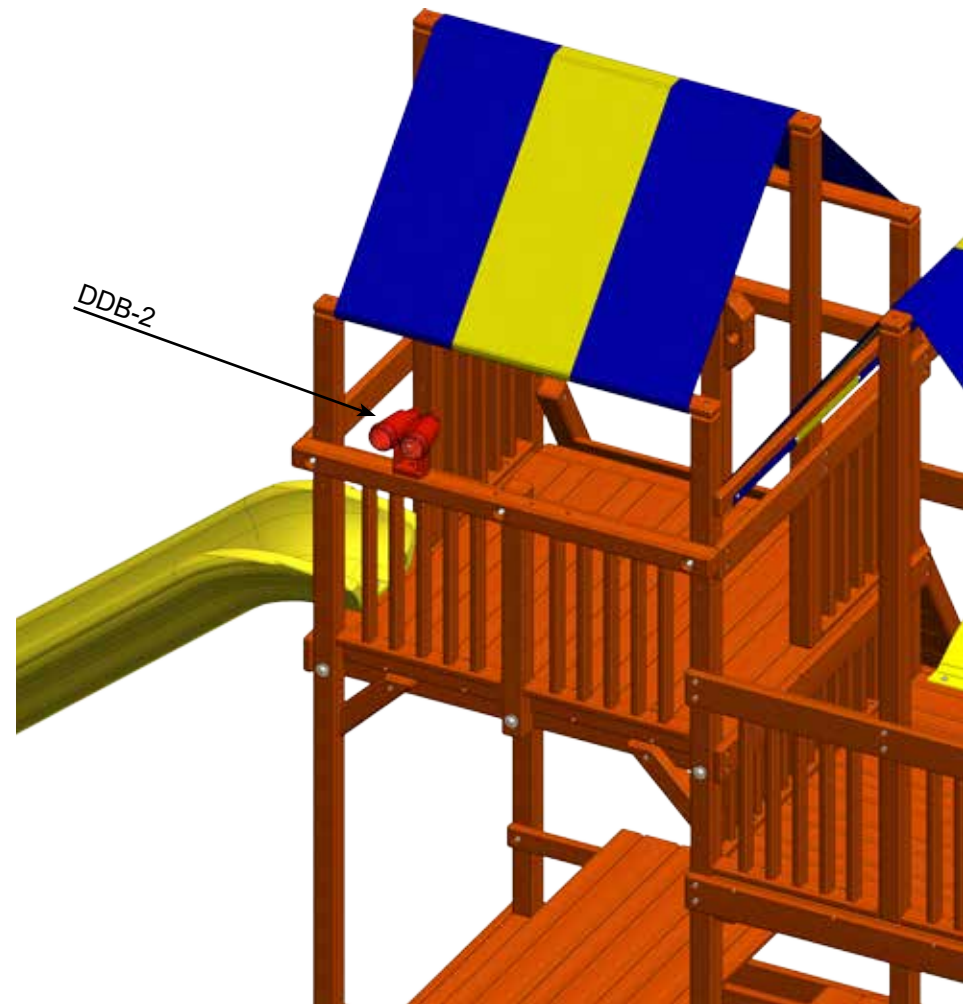
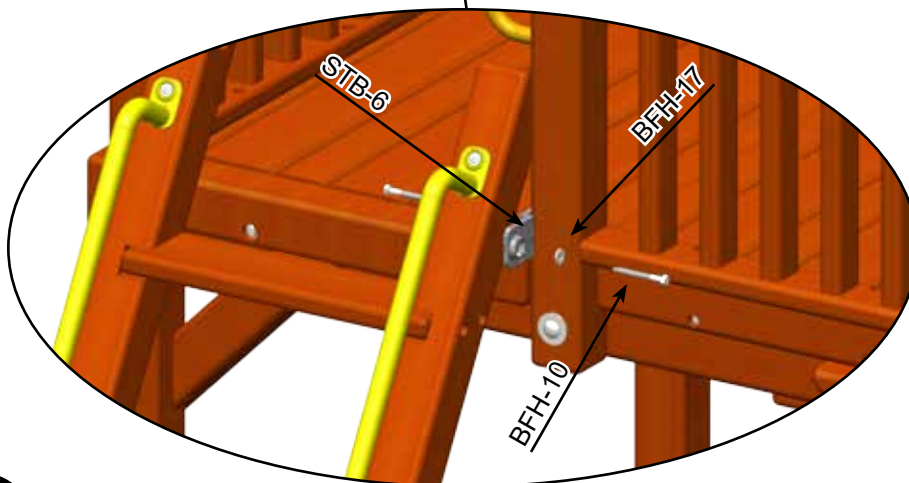
# Accessory Installs

## PARTS NEEDED

STB-6- Fort Ladder Bracket- (1)  
DDB-2- Binoculars w Hardware- (1)

## HARDWARE NEEDED

BFH-10- 3/8" x 3 1/2" Hex Lag Screw- (2)  
BFH-17- 3/8" USS Flatwasher- (2)





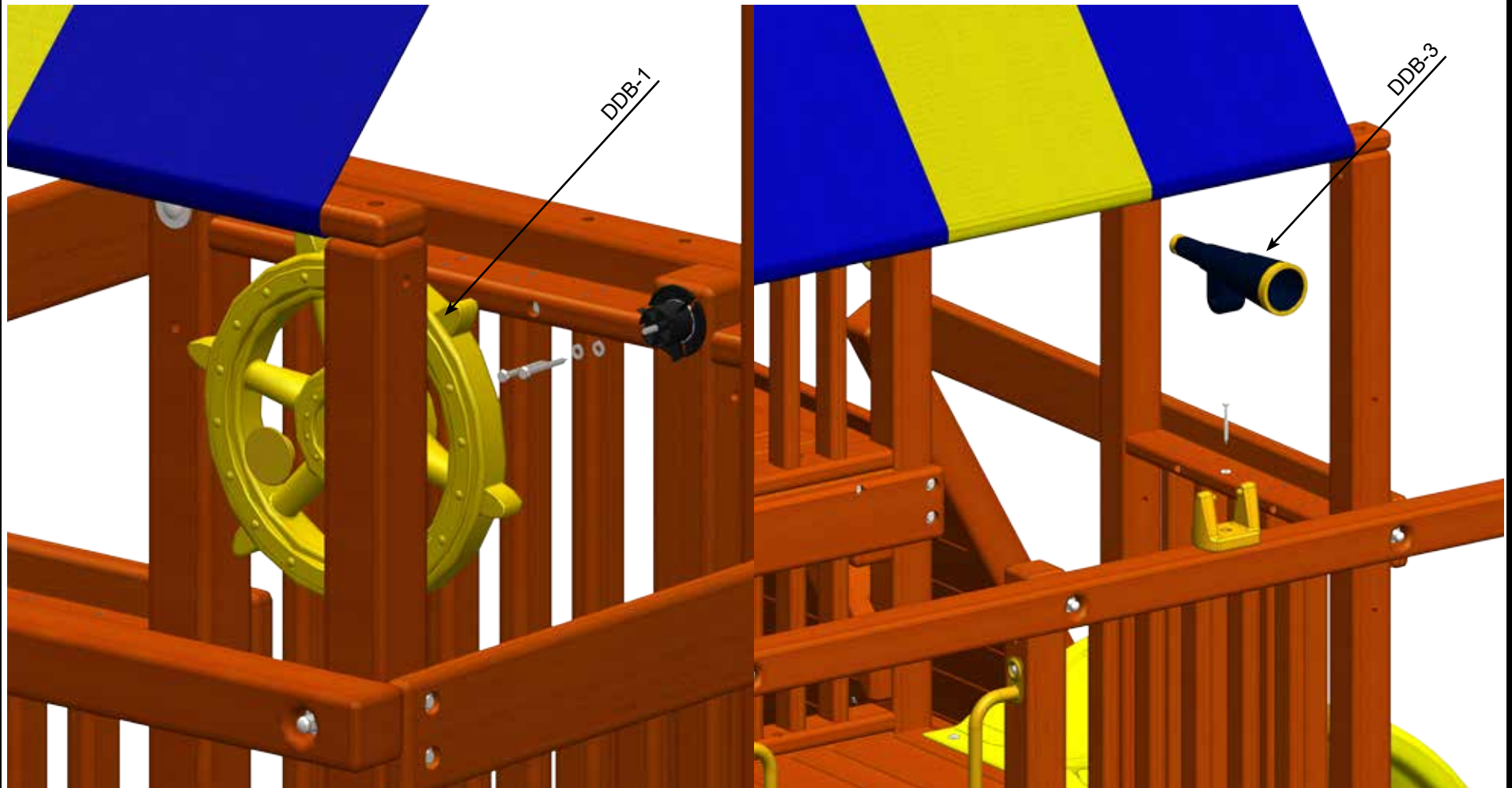
# Accessory Installs

## PARTS NEEDED

DDB-1- 19" Ship's Wheel- (1)  
BBD-3- Telescope- (1)

## HARDWARE NEEDED

Hardware w/ Accessories



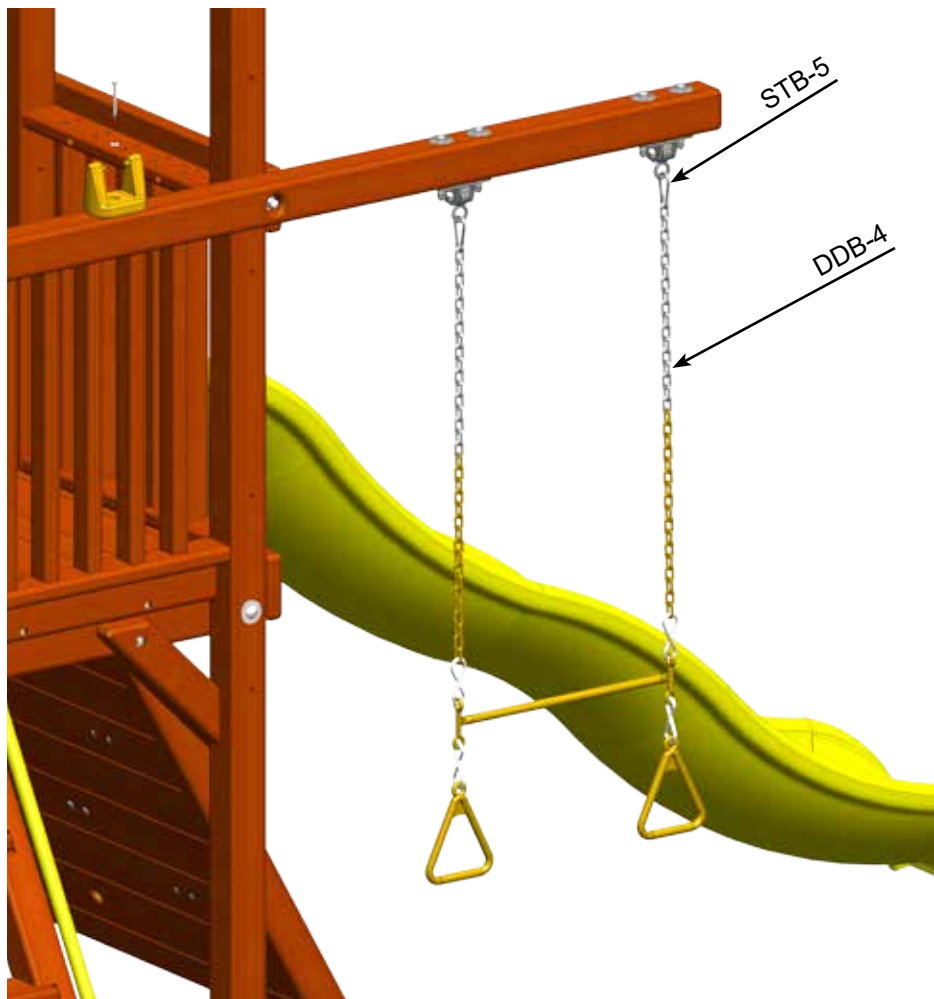
# Accessory Installs

## PARTS NEEDED

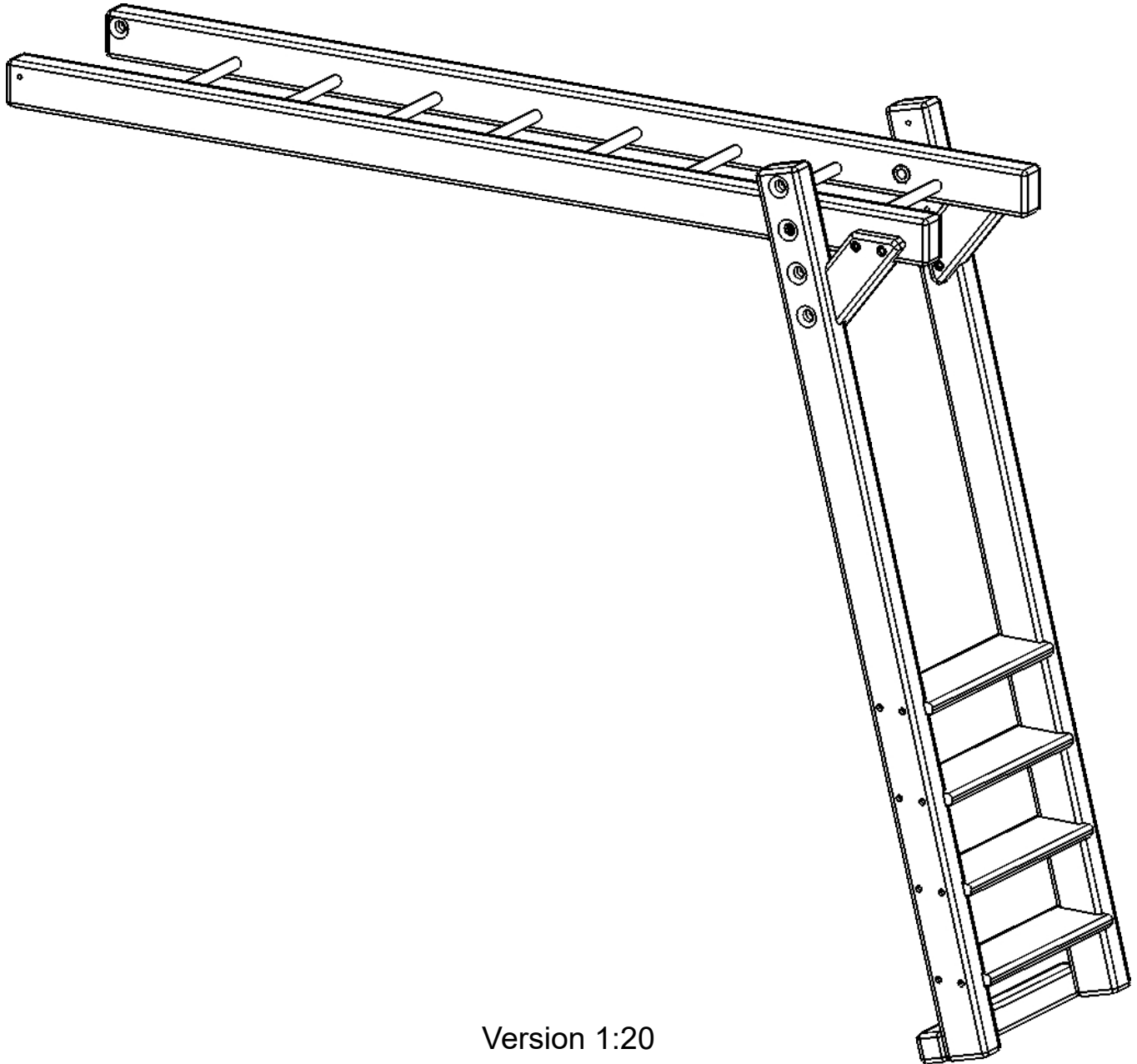
STB-5- Spring Clip- 10 x 100mm- (2)  
DDB-4- 20" Trapeze Bar w/ Rings- (1)

None

## HARDWARE NEEDED



# Extended Monkey Bar Installation Manual



Version 1:20



4465 West Sam Houston Parkway N.  
Houston, Texas 77041  
[WWW.TREEFROGSSHOWROOMS.COM](http://WWW.TREEFROGSSHOWROOMS.COM)

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## Sections

- Section 1: Cover & Liability Info
- Section 2: Product Parts
- Section 3: Sub-Assemblies
- Section 4: Main Assembly

## **IMPORTANT - PLEASE READ**

As fresh lumber acclimates to its new environment, the natural tendencies of the tree can show itself in the form of checks, or “cracks” in the lumber. In almost all cases this is normal and it will not affect the structural integrity of your play set.

Cosmetic defects that do not affect the structural integrity of the product, or natural defects of wood such as warping, checking or any other physical properties of wood that do not present a safety hazard, are not covered by this warranty.

Defects that develop because the product is exposed to extreme climate conditions are not covered by this warranty. Defects that develop as a result of faulty or improper installation of the product are also not covered by this warranty.

Most cracks are not warrantable, however if you believe that the integrity of your play set is compromised by this natural occurrence, please contact the Tree Frogs Swing Set Dealer that you purchased your swing set from.

We appreciate your purchase and know that you will enjoy your play system for many years to come.

### **Tools Needed for Assembly**

Tape Measure	24" Level	Angle Square
Phillips Screw Driver	3/8" Cordless Drill or Electric Drill	3/8" Drive Ratchet or Electric Impact Gun
Claw Hammer or Rubber Mallet	Pliers or Vise Grips	7/16" Deep Well Socket
9/16" Deep Well Socket	3/4" Deep Well Socket	1/8", 1/4", and 9/16" Drill Bits
Phillips Head Screw Bits	An Adult with two Adult Helpers	

Please familiarize yourself with the install manual, parts/components and general construction process of your new swing set before getting started. Approximate assembly time: 6 to 8 hours. 6 foot unobstructed safety perimeter around swingset recommended.

## **Pre-Assembly Hints**

- Depending on your experience, assembly of our play sets can take as little as 6 hours up to 24 hours, depending on size, after inventory of parts; therefore, we recommend you set aside a full two days for assembly.
- Identify all of the parts for your play set. Empty each box and lay out boards so you can see each part. Your instruction book will have detailed drawings that will make it easy for you to recognize individual parts. Keep all hardware and metal parts separate from wooden pieces.
- After everything is laid out, check carefully to ensure all parts are present. Make sure there are no broken boards.
- Find an area to sort your hardware. It is best to open the hardware on a solid surface so that you do not lose any pieces in the grass.  
This will save time and familiarize you with all the different pieces in the hardware bag.
- **\*\*Important note: Wood has some natural defects such as knots, surface cracks, etc... We reject parts that are structurally defective. We use a high quality lumber in our structures; however, you should inspect each part for splinters or rough spots and sand them smooth to prevent injury.\*\***
- After familiarizing yourself with all of the components, read all instructions thoroughly. Reading instructions after you have studied the parts will help you understand more clearly the installation process, and help to eliminate unnecessary mistakes.
- Pay close attention to the diameter and length of each bolt and screw.
- Never tighten hardware completely at first. It helps to have some adjustment for bolt alignment while you are attaching parts together. After everything is square, tighten each joint.
- After the main unit is assembled it is critical that the floor is level and square. If the main frame is not level, the walls and floor will be out of square.
- After you complete installation, make sure every bolt, screw, and nut is tight, and every board is secure. Wood will expand and contract with the seasons.
- Place the set on level ground, not less than 6ft from any structure or obstruction such as a fence, garage, house, overhanging branches, laundry lines, or electrical wires.
- All 1/4" and 3/8" lag bolts must have pre-drilled holes 1-1/2" to 2" deep. Use a 1/8" drill bit for the 1/4" lag bolts and 1/4" drill bit for 3/8" lag bolts. Use pre-drilled holes in facias as a reference for placing lag bolt pilot holes.
- If a board lifts or rises causing a gap between boards when running in lag bolts or screws, back out the screw or lag bolt and press or apply pressure (but not enough to crack or break board) while re-running in the lag bolt or screw in the same hole.
- Do not over tighten bolts, lag bolts or screws. You can damage boards, break hardware, and/or strip out the hardware.
- When using hammer do not beat on the hardware, but gently tap it in. Never beat on the wood as it will leave marks.

## **Leveling Your Swing Set During Assembly**

- Complete the steps which will be the basic frame of the fort {i.e. four corner posts with base (sand box boards) and deck supports}
- Position in the most level area chosen for the play set, keeping in mind the location and size of the swing beam, ladder, slides, etc. that extend off the fort.
- Once the frame is in the final position, check for vertical and horizontal levelness to determine which side(s) will need to be dug into the ground to level the play set.
- With a shovel, score the ground around the outside edges of the sandbox boards on the 'high' side of the fort. This is the area that will be dug in. Make sure to score deep enough; the scored lines will be your digging template.
- Push the frame off and away from the scored area, far enough to dig and remove dirt to reach the appropriate depth.
- Dig a channel along the scored line(s) for the base of the fort (corner post and sandbox boards) to rest into. Dig the channel(s) to the same level depth. The bottom of the channel(s) should be level to each other so your frame doesn't teeter or rock because the channel(s) are uneven.
- Once you have removed enough grass and dirt, slide/push the frame into the channel(s). Place a level on the vertical and horizontal boards of the frame to determine if enough soil, or too much, was removed.
- Repeat this process until the basic frame is plumb and level and in its final position before completing the rest of the assembly.
- Measure to make sure fort is square.

**\*\* Important: if you require a channel depth of more than 6", then we recommend you have your play set area professionally graded before completing assembly. \*\***



## **Choosing A Location For Your Playset**

When choosing a location for your swing set, always keep your child or children's safety in mind. Here are some recommendations to help you locate and install a safe play area.

- This play set is designed for the use of 4 occupants who have a combined weight not exceeding 800 pounds on the elevated floor; 3 occupants who have a combined weight of 525 pounds on the swing area; for a total Unit capacity of 5 occupants who have a combined weight of 1325. (this weight is not including the picnic table area)
- On-site adult supervision is required.
- The swing set should be located on level ground. The stationary components such as ladders and slides are required to be a minimum of six feet from any structure or obstruction such as a fence, garage, house, tree, overhanging branches, electrical wires, clotheslines, etc. Any swinging equipment is also required to be a minimum distance twice the height of the swing beam away from these obstructions or structures as well. The swing set should be located a safe distance from any water hazards, such as a lake, river, bayou, swimming pool, etc.
- Do not install this residential swing set in a commercial setting. This swing set is not manufactured for commercial usage and will void all warranties. Tree Frogs Wooden Swing Set Factory is not responsible for any damages or injuries resulting from this swing set being used in a commercial setting.
- Never install this swing set indoors; or over concrete, asphalt, packed earth, grass, carpet or any other hard surface. A fall onto a hard surface can result in serious or fatal injury.
- The U.S. Consumer Product Safety Commission (CPSC) recommends that you install and maintain a resilient surface under your swing set. The CPSC's Consumer Information Sheet for Playground Surfacing Materials is on the next page. A resilient surface, should be installed after the swing set has been completely assembled according to these instructions. The swing set must rest on solid ground. Please note that this swing set has a maximum fall height of 7'.

## **Maintaining Your Swing Set**

**Here are some maintenance tips required to insure safe play on your swing set for years of fun.**

- At the beginning of each usage season and every two weeks during, check: nuts and bolts and tighten as needed, swing seats, chains, ladders, slides, rope and wood components for sign of deterioration and replace if necessary.
- On a yearly basis, we recommend that you coat your swing set with a sealant or preservative. You may also want to spot sand any areas prior to sealing.

**\*\* Special note: Although we recommend that you reseal your swing set annually, you may have to touch up the high traffic areas and/or areas that have a high exposure to direct sunlight.\*\***

- Be sure that the sealant you select is non-toxic and child safe. Your local Tree Frogs Wooden Swing Set Factory dealer may offer a complete power wash and reseal and maintenance program.
- Do not use line trimmers or "weed eaters" around your swing set. The line will remove both paint and wood from uprights and base pieces. Any damage resulting from this type of abuse is not covered under our limited warranty.
- Remove plastic swing seats and take indoors or do not use when temperature drops below 0°F.

**Please keep this install manual for future reference.**

## **To insure SAFE PLAY adults must teach children:**

- Not to walk close to, in front of, behind, or between moving items.
- Not to swing empty swing seats.
- Not to swing sideways into the path of adjacent swings.
- Not to use the swing set in a manner other than that for which it is intended.
- Not to get off the equipment while it is in motion.
- Not to jump off the tower.
- Not to stand in the swing seats.
- Not to swing so high that chains become slack, or above the height of the swing support.
- Not to jump on a slide.
- Not to climb on top of the swing support.
- Not to attach to the swing set any item that is not specifically designed for use with the equipment, such as (but not limited to) jump ropes, clotheslines, pet leashes, cables, and chains. These may become strangulation hazards.
- To hold on to swings and climbers with both hands.
- To slide feet first, never head first.
- To watch for other children while swinging or playing near the swing set.

## **To also insure SAFE PLAY adults must:**

- Limit climbing and swinging heights to each child's ability.
- Verify that suspended climbing ropes are secured at both ends.
- Verify that suspended climbing ropes cannot be looped back on themselves.
- Dress children appropriately for play. Use well-fitted shoes that do not have slippery soles.
- Avoid ponchos, scarves, hoods, loose fitting clothing, neckties, and any clothing with a drawstring. Serious injury could result should any part of the children's clothing become entangled in the swing set.
- Do not allow children to play wearing helmets.
- Remember that children are inventive. When they develop games that are unsafe, be alert and change the rules.

## **Weight limits for Treefrogs Swingsets**

Fort Platform: 800 Lbs.Total Weight.

Swing Belts: 175 Lbs.

Trapeze: 125 Lbs.

Full Bucket Swing: 50 Lbs.

Toddler Bucket Swing: 50 Lbs.

Tire Swing: 125 Lbs. Total Weight

Rope Ladder: 75 Lbs.

Rock Wall: 150 Lbs.

All Slides: 125 Lbs.

Tree Frogs recommends that the weight limits for all components must not be exceeded. Failure to adhere to these and other safety guidelines could result in damage to the swing set. and/or injury to the users.

## CONSUMER INFORMATION SHEET FOR PLAYGROUND SURFACING MATERIALS

The U.S. Consumer Product Safety Commission (CPSC) estimates that about 100,000 playground equipment related injuries resulting from falls to the ground surface are treated annually in U.S. hospital emergency rooms. Injuries involving this hazard pattern tend to be among the most serious of all playground injuries, and have the potential to be fatal, particularly when the injury is to the head. The surface under and around playground equipment can be a major factor in determining the injury-causing potential of a fall. It is self-evident that a fall onto a shock-absorbing surface is less likely to cause a serious injury than a fall onto a hard surface. However, it should be recognized that some injuries from falls will occur no matter what playground surfacing material is used.

Playground equipment should never be placed on hard surfaces such as concrete or asphalt. Grass may appear to be acceptable, but can turn to hard packed earth in areas of high traffic. Shredded bark mulch, wood chips, or fine gravel are considered to be acceptable shock absorbing surfaces when installed and maintained at a sufficient depth under and around play equipment.

TABLE 1 -CRITICAL HEIGHTS (in feet) OF TESTED MATERIAL

MATERIAL	UNCOMPRESSED DEPTH			COMPRESSED DEPTH
	6 Inch	9 Inch	12 Inch	
Wood Chips	7	10	11	10
Double Shredded Bark Mulch	6	10	11	7
Engineered Wood Fibers	6	7	>12	6
Fine Sand	5	5	9	5
Coarse Sand	5	5	6	4
Fine Gravel	6	7	10	6
Medium Gravel	5	5	6	5
Shredded Tires**	10-12	N/A	N/A	N/A

\*\* This is data from tests conducted by independent testing laboratories on a 6 inch depth of uncompressed shredded tire samples produced by four manufacturers. The test reported critical heights, which varied from 10 feet to greater than 12 feet. It is recommended that persons seeking to install shredded tires as a protective surface request test data from the supplier showing the critical height of the material when it was tested in accordance with ASTM F1292.

Table 1 should be read as follows: If, for example, uncompressed wood chips are used at a minimum of 6 inches, the Critical Height is 7 feet. If 9 inches of uncompressed wood chips are used, the Critical Height is 10 feet. It should be noted that, for some materials, the Critical Height decreases when the material is compressed. It is recommended that a shock absorbing material should extend a minimum of 6 feet in all directions from the perimeter of stationary equipment such as climbers and slides. However, because children may deliberately jump from a moving swing, the shock absorbing material should extend in the front and rear of a swing a minimum distance of 2 times the height of the pivot point measured from a point directly beneath the pivot on the supporting structure.

This information is intended to assist in comparing the relative shock-absorbing properties of various materials. No particular material is recommended over another. However, each material is only effective when properly maintained. Materials should be checked periodically and replenished to maintain correct depth as determined necessary for your equipment. The choice of a material depends on the type and height of the playground equipment, the availability in your area, and its cost.

This information has been extracted from the CPSC publications "Playground Surfacing-Technical Information Guide" and "Handbook for Public Playground Safety." Copies of these reports can be obtained by sending a postcard to:

Office of Public Affairs  
U.S. Consumer Product Safety Commission  
Washington, D.C. 20207

Toll-free Hotline: 1-800-638-2772 or at <http://www.cpsc.gov>

# 2018 TREE FROGS Limited Lifetime Warranty

## Limited 10-Year Warranty, Limited 5-Year Warranty

Tree Frogs Warranties all Jaguar Playcenter Series, Bengal Forts Series, MegaDeck Fort Series Redwood components and Cedar components against structural failure due to warping, wood rot, insect infestation (excluding Carpenter Bees) or decay for the period of 10 Years from the date of original purchase. This warranty does not cover cracks, fissions, checks, fading, knots and weathering that are normal natural characteristics of wood, that do not affect the structural integrity of the product. The Redwood and Cedar components warranty is extended to a Limited Lifetime Warranty to the original owner upon registering this warranty within 90 days of purchase at [www.treefrogsswingsets.com](http://www.treefrogsswingsets.com).

Tree Frogs Warranties all Parrot Island Fort Series, Parrot Island Playcenter Series, Rainforest Cottage Series Cedar components against structural failure due to warping, wood rot, insect infestation (excluding Carpenter Bees) or decay for a period of 10 Years from the date of original purchase. This warranty does not cover cracks, fissions, checks, fading, knots and weathering that are normal natural characteristics of wood, that do not affect the structural integrity of the product.

Tree Frogs Warranties all Toucan Fort Series, Toucan Playcenter Series, Orangutan Fort Series, Stand Alone Swings Cedar components against structural failure due to warping, wood rot, insect infestation (excluding Carpenter Bees) or decay for a period of 5 Years from the date of original purchase. This warranty does not cover cracks, fissions, checks, fading, knots and weathering that are normal natural characteristics of wood, that do not affect the structural integrity of the product.

In addition, a 10-Year Limited Warranty applies to all roto-molded slides, ductile iron swing hangers, tire swivels, metal climbing rungs and swing beam brackets against failure due to rust or failure in defect in material. Surface rust, fading, weathering, cracks/chips in coatings and corrosion that do not affect structural integrity are not covered by this warranty. Furthermore, a 5-Year Limited Warranty applies to all components & accessories including all swings, chain ladders, gliders, handles, brackets, bubble panels, tarps, steering/ships wheels, telescopes, binoculars, buoy ball, blow molded slides and disc seat that are not covered under the 10-Year Warranty to be free from defects in material and workmanship. Surface rust, fading, weathering, cracks/chips in coatings and corrosion that do not affect structural integrity are not covered by this warranty.

And for a period of 1-Year Tree Frogs warranties all ropes, structural foam molded slides to be free of defects in material and workmanship. Fading is not considered a defect and may occur with seasonal and geographical conditions.

**\*\*10-Year Warranty Exclusion:** Toucan Fort Series, Toucan Playcenter Series, Orangutan Series, Stand Alone Swings (Limite 5Yr/5Yr/1Yr WARRANTY).

This warranty is limited to a repair or replacement of the defective part. Product covered under this warranty will be shipped at the customer's expense. Tree Frogs is not responsible for any expense associated with freight, or delivery and installation of the warranted part(s). Tree Frogs reserves the right to inspect all warranty claim parts for which a claim has been made.

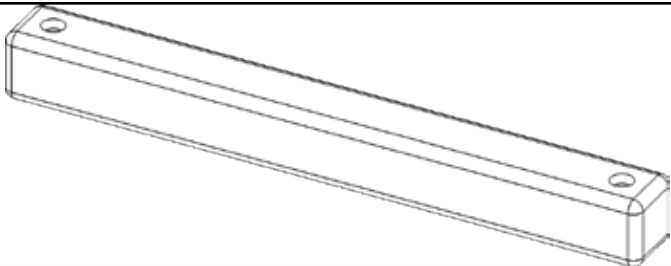
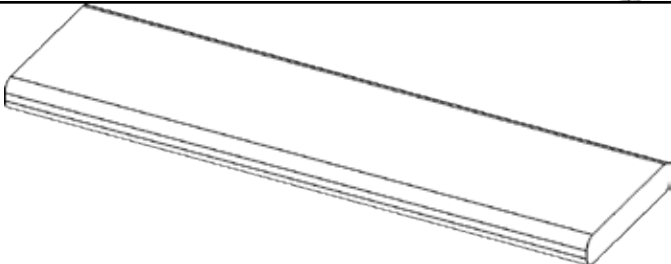
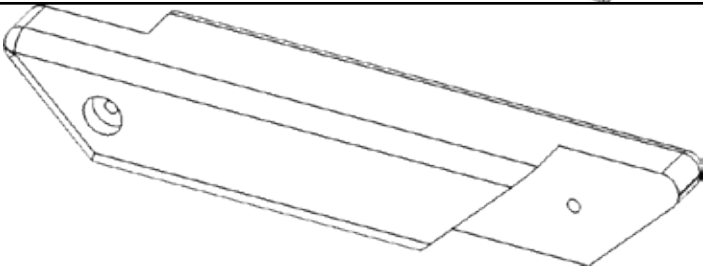
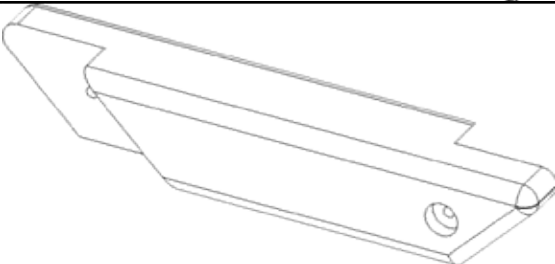
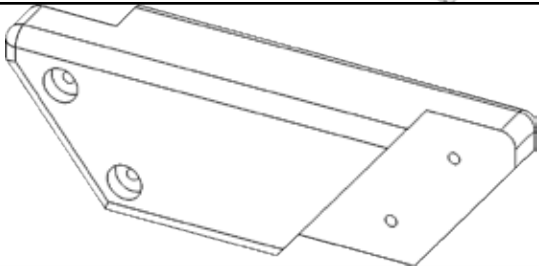
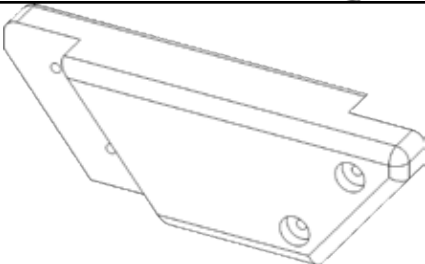
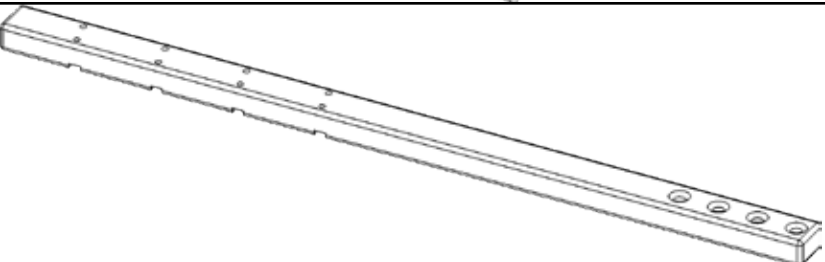
This limited warranty applies only to the original retail purchaser and for residential use only, non-residential use voids warranty. These warranties void when product is transferred or sold or no longer in possession by original owner. A copy of the original invoice must be presented to initiate warranty claim. This limited warranty does not cover damage from abuse, acts of God, vandalism, maintenance guideline neglect, alterations, normal wear & tear, use other than residential, unauthorized modification, damage due to moving of product or improper installation and or use. Any modification could damage the structural integrity of the play system and voids all warranties.

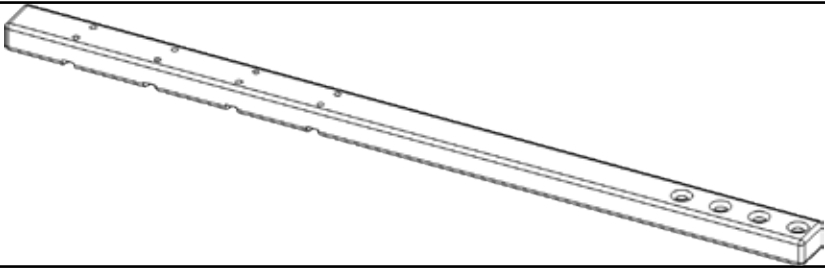
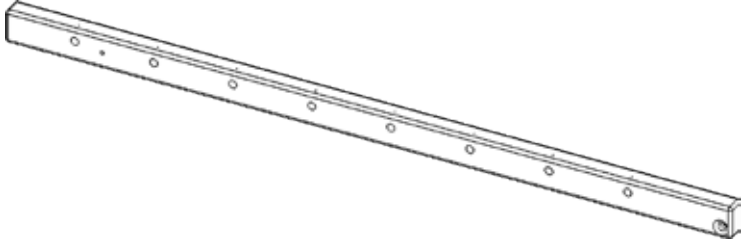
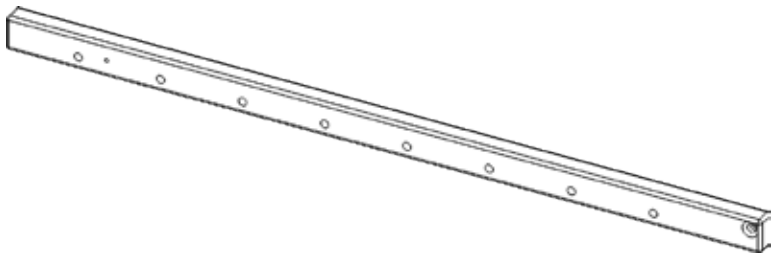
This warranty is exclusive and expressly in lieu of all other warranties, expressed or implied, including warranties of merchantability or fitness for use. Tree Frogs does not assume, or authorize any person to assume for us, any other liability in connection with the sale of our products.

This warranty gives you specific legal rights, and you also may have other rights that vary from state to state. Register your play system's warranty at [www.treefrogsswingsets.com](http://www.treefrogsswingsets.com).

Tree Frogs reserves the right at any time to change product specifications or substitute similar components.

See your instruction manual for guidelines on regular maintenance. <http://treefrogsshowrooms.com/installation-manuals/>. Your child's play system & perimeter play zone should be inspected regularly for any wear & safety hazards.

Extended Monkey Bar (032)	Description	QTY.
	(CC-220) 032-1 31 1/4" Monkey Bar Bottom	1
	(CC-136) 032-2 26 1/2" Step	4
	(CC-149) 032-3 19" Left Gusset	1
	(CC-148) 032-4 19" Right Gusset	1
	(CC-190) 032-5 16" Left MB Gusset	1
	(CC-191) 032-6 16" Right MB Gusset	1
	(CC-193) 032-7 103" Left Support Leg	1

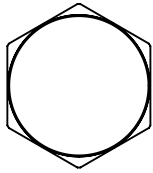
Extended Monkey Bar (032)	Description	QTY.
	(CC-192) 032-8 103" Right Support Leg	1
	032-9 119 1/2" (R) Monkey Bar Overhead	1
	032-10 119 1/2" (L) Monkey Bar Overhead	1



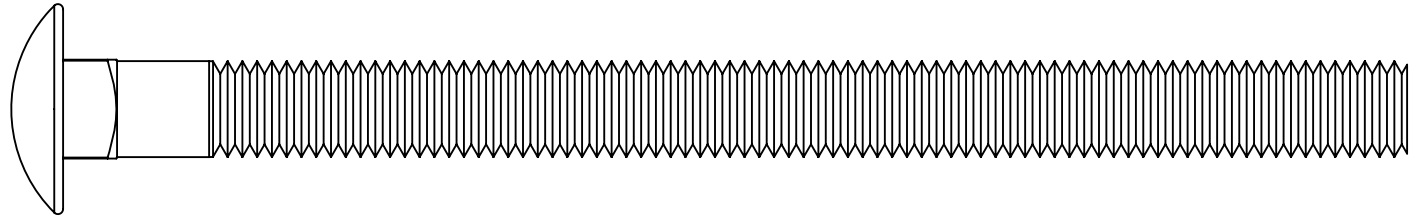
# EXTENDED MONKEY BAR -032-HWR-BAG

INSTALLER NOTE: (YOU MUST ASSEMBLE THIS PRODUCT IN ACCORDANCE WITH THESE ASSEMBLY INSTRUCTIONS. WHEN COMPLETE GIVE MANUAL TO OWNER.)

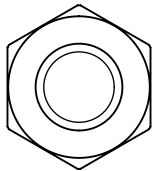
MB-1  
1/2" Acorn Nut Plated  
QTY. 4



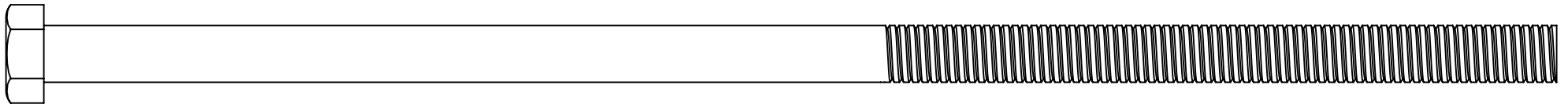
MB-2  
1/2" x 7" Carriage Bolt  
QTY. 4



MB-3  
1/2" Hex Nut  
QTY. 4



MB-4  
3/8" x 10 Hex Bolt  
QTY. 1



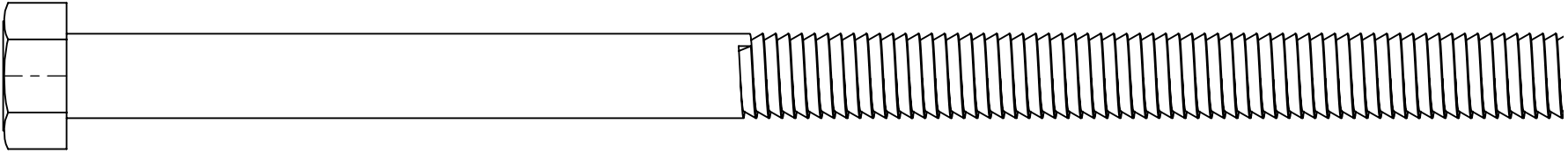
MEASUREMENT TAKEN FROM BOTTOM OF BOLT HEAD TO THE BOTTOM OF BOLT

USE THE RULER TO MEASURE YOUR BOLTS AND SCREWS. HARDWARE VIEWS SHOWN ABOVE ARE 1:1 SCALE AND CAN BE USED TO MATCH HARDWARE SIZES.

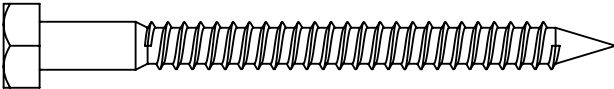
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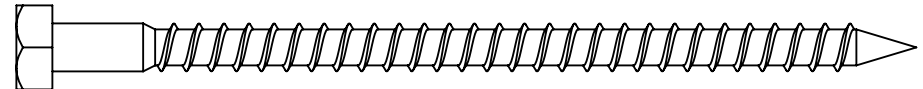
MB-5  
1/2 x 9" Hex Bolt  
QTY. 1



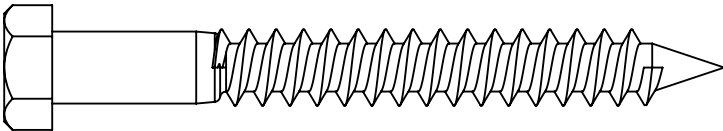
MB-6  
1/4" x 3" Hex Lag Screw  
QTY. 4



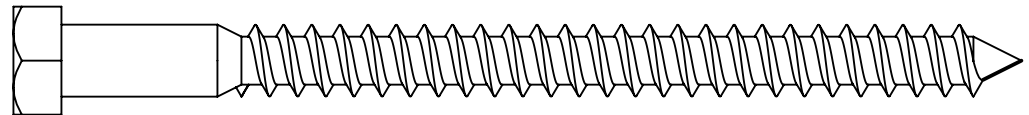
MB-7  
1/4" x 4 1/2" Hex Lag Screw  
QTY. 16



MB-8  
3/8" x 3 1/2" Hex Lag Screw  
QTY. 12



MB-9  
3/8" x 5" Hex Lag Screw  
QTY. 2



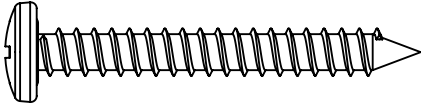
MEASUREMENT TAKEN FROM BOTTOM OF BOLT HEAD TO THE BOTTOM OF BOLT

USE THE RULER TO MEASURE YOUR BOLTS AND SCREWS. HARDWARE VIEWS SHOWN ABOVE ARE 1:1 SCALE AND CAN BE USED TO MATCH HARDWARE SIZES.

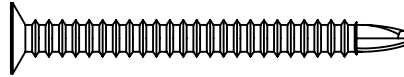
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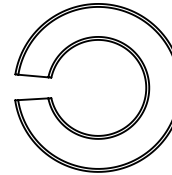
MB-10  
#14 x 2" Pan Phillip T/S  
QTY. 4



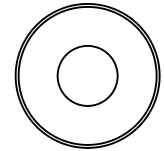
MB-11  
2" Metal Tap Screw  
QTY. 14



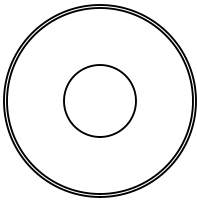
MB-12  
1/2" Split Lockwasher  
QTY. 4



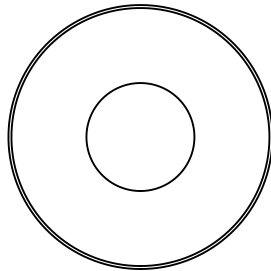
MB-13  
1/4" Uss Flatwasher  
QTY. 24



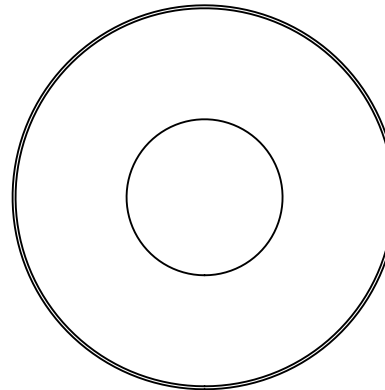
MB-14  
3/8" Uss Flatwasher  
QTY. 16



MB-15  
1/2" Uss Flatwasher  
QTY. 4



MB-16  
3/4" Uss Flatwasher  
QTY. 4

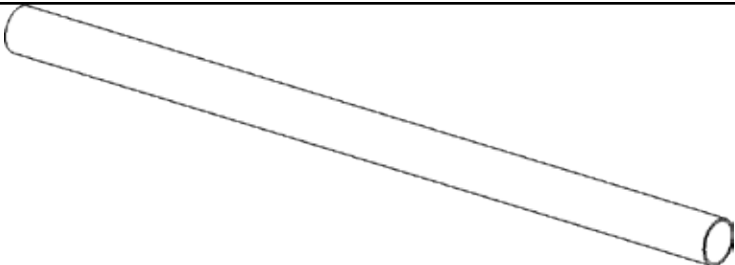



MB-17  
#2 & #3 Drive Bit



MEASUREMENT TAKEN FROM BOTTOM OF BOLT HEAD TO THE BOTTOM OF BOLT

USE THE RULER TO MEASURE YOUR BOLTS AND SCREWS. HARDWARE VIEWS SHOWN ABOVE ARE 1:1 SCALE AND CAN BE USED TO MATCH HARDWARE SIZES.

Extended Monkey Bar-032-HWA-SB	Description	QTY.
	032-A 1 1/4" x 22 1/4" PlayGrip Tube	8
	032-B PlayGrip Ladder Handle	2

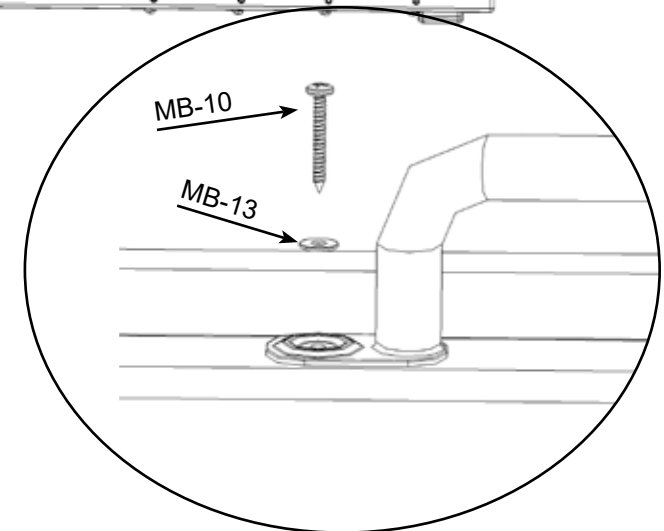
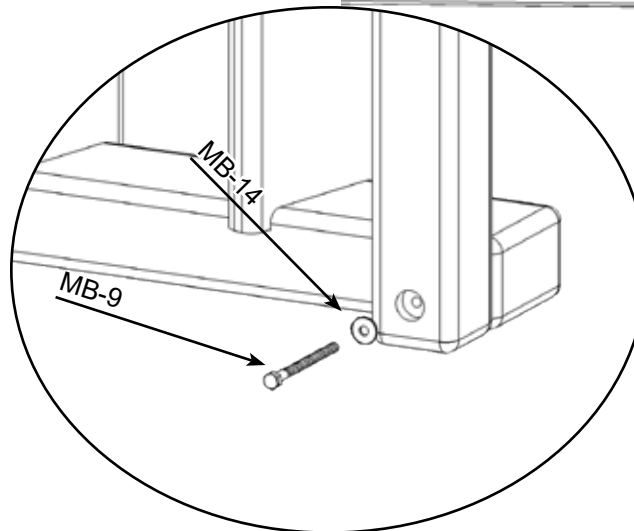
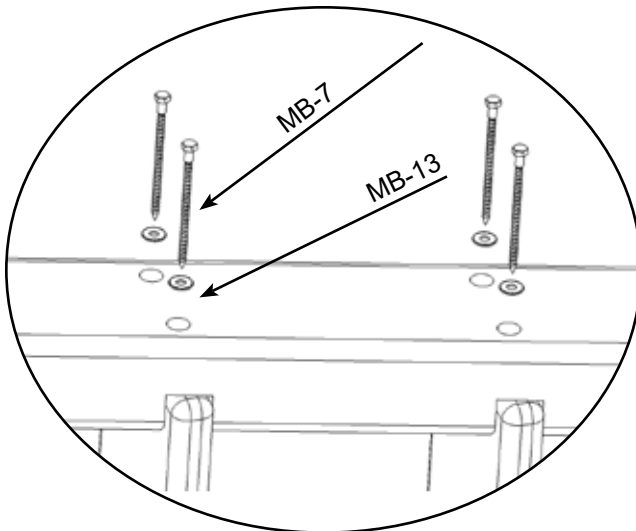
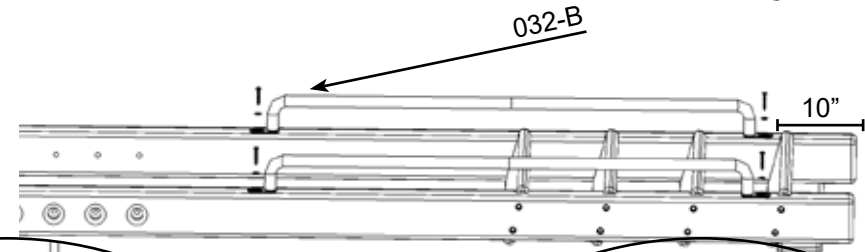
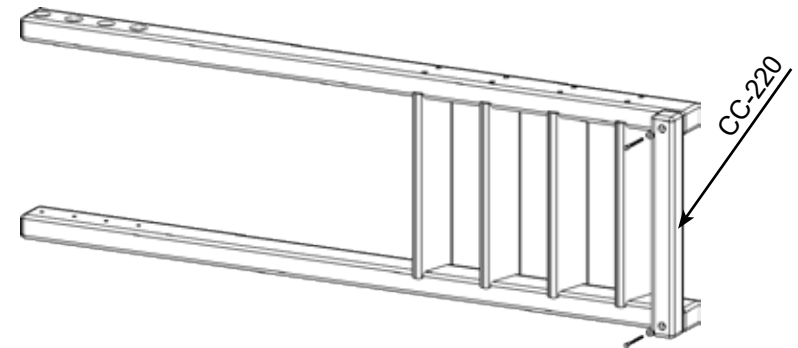
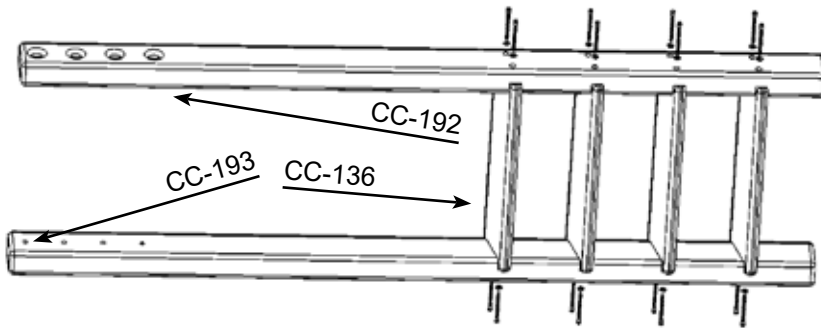
# Monkey Bar Support - Sub Assemblies

## PARTS NEEDED

CC-220- Monkey Bar Bottom-	(1)
CC-136- Step-	(4)
CC-192- Right Support Leg-	(1)
CC-193- Left Support Leg-	(1)
032-B- PlayGrip Ladder Handle-	(2)

## HARDWARE NEEDED

MB-7- 1/4"x4 1/2" Hex Lag Screw ZP-	(16)	MB-9 3/8" x 5" Hex Lag Screw ZP-	(4)
MB-13- 1/4" Uss Flatwasher ZP-	(16)	MB-14 3/8" Uss Flatwasher ZP-	(4)
MB-10- #14 x 2" Pan Phillip T/S ZP-	(4)	MB-13 1/4" Uss Flatwasher ZP-	(4)



# Extended Monkey Bar Overhead

## PARTS NEEDED

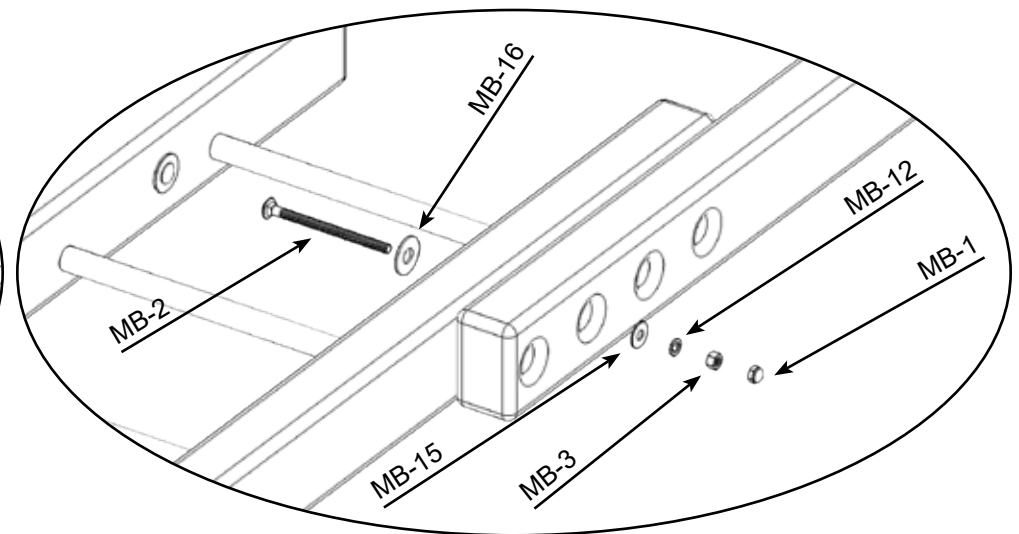
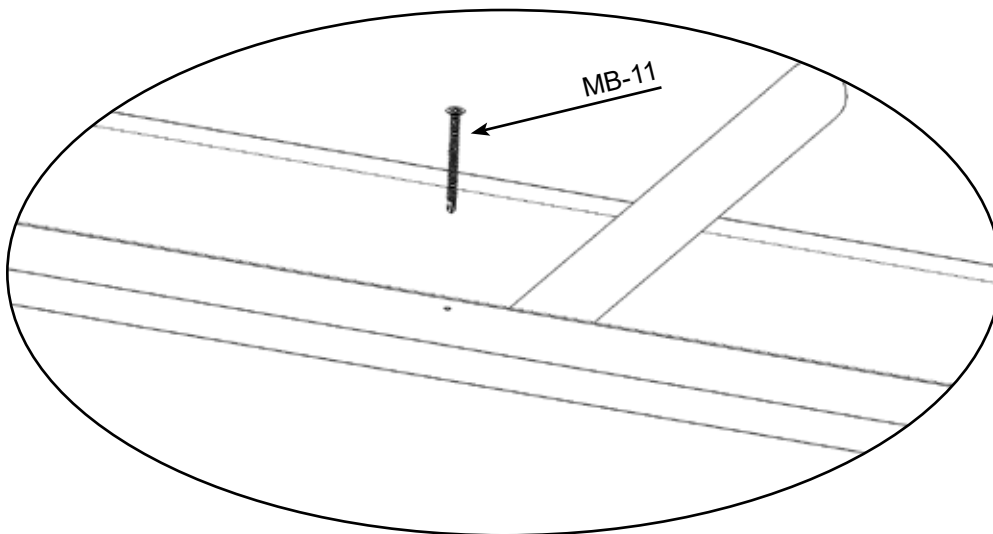
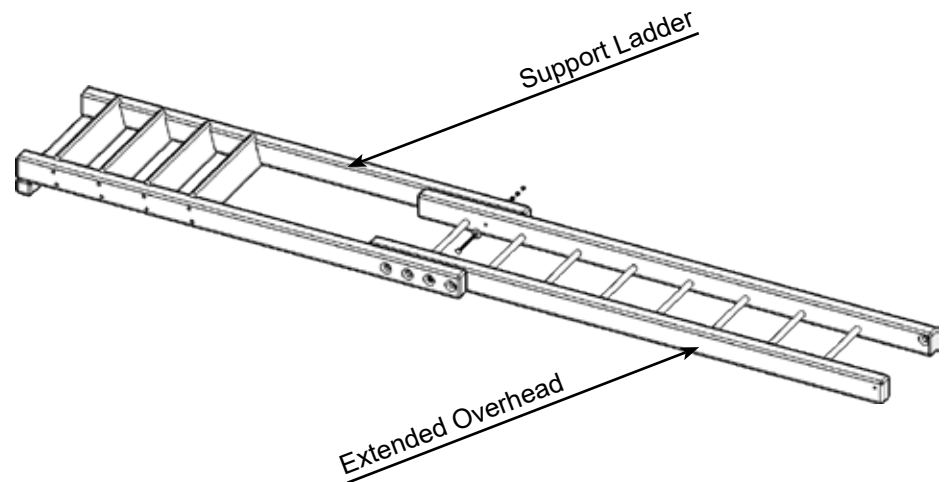
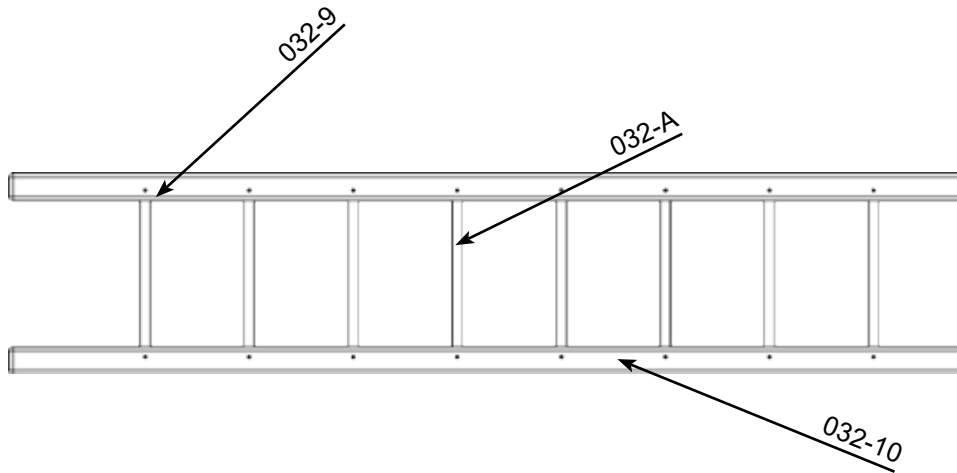
032-9- (R) Monkey Bar Overhead- (1)  
 032-8- (L) Monkey Bar Overhead- (1)  
 032-A 1 1/4"Diax 16 ga x22" PlayGrip Tube- (6)

MB-11- 2" Metal Tap Screw-  
 MB-16- 3/4" USS Flatwasher-  
 MB-12- 1/2" Split Lockwasher-  
 MB-1- 1/2" Acorn Nut Plated-

# Extended Monkey Bar Assembly

## HARDWARE NEEDED

(12) MB-2- 1/2" x 7" Carriage Bolt- (2)  
 (2) MB-15- 1/2" USS Flatwasher- (2)  
 (2) MB-3- 1/2" Hex Nut- (2)





# Monkey Bar Assembly

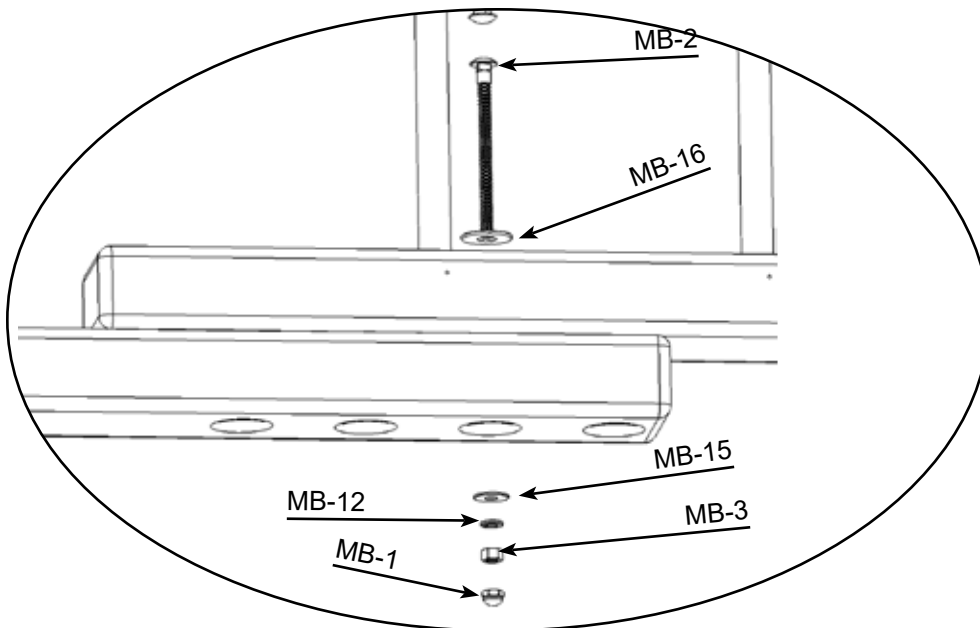
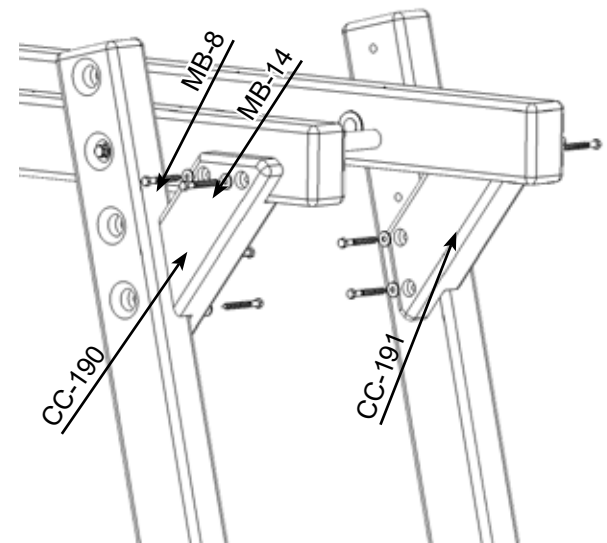
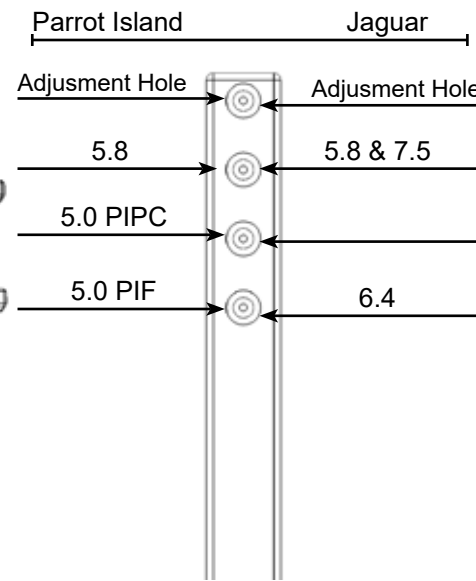
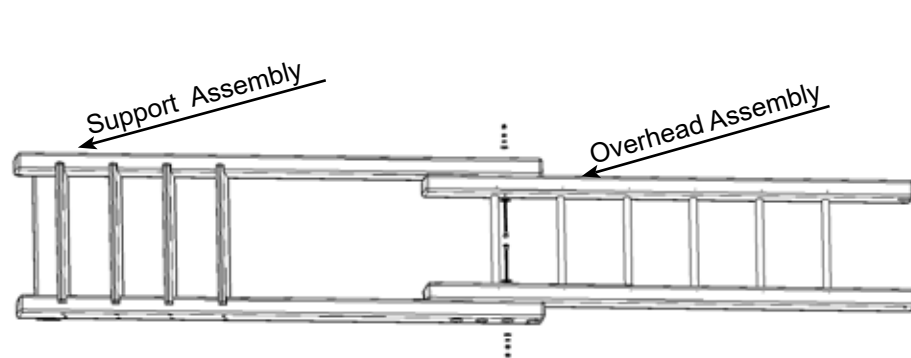
## PARTS NEEDED

Monkey Bar Overhead Assembly (1)  
 Support Assembly (1)  
 CC-190 Left MB Gusset (1)  
 CC-191 Right MB Gusset (1)

MB-1- 1/2"-13 Acorn Nut Plated-  
 MB-8- 3/8" x 3 1/2" Hex Lag Screw-  
 MB-12- 1/2" Split Lockwasher-  
 MB-15- 1/2" Uss Flatwasher-

## HARDWARE NEEDED

(2) MB-2- 1/2"-13 x 7" Carriage Bolt- (2)  
 (8) MB-3- 1/2"-13 Hex Nut- (2)  
 (2) MB-14- 3/8" Uss Flatwasher- (8)  
 (2) MB-16- 3/4" Uss Flatwasher- (2)



Grab the Monkey Bar Overhead at the rung that is in the center and pull up scissoring the Monkey Bar Overhead and the Monkey Bar Support. Now facing the Monkey Bar Support place your Left Monkey Bar Gusset on the inside of the board and push up until it touches the Monkey Bar Overhead. Have your helper pull out on the Monkey Bar Support until the notches on the Left Monkey Bar Gusset are flat against the Monkey Bar Support and the Monkey Bar Overhead. **\*\*Be careful and do not let the assembly scissor back down as this can cause an injury or damage your Monkey Bars.\*\*** Place a 3/8" Flatwasher over a 3/8" x 3 1/2" Hex Lag Screw and attach the Left Monkey Bar Gusset to the Monkey Bar Overhead and Monkey Bar Support Ladder. Repeat this process on the right side. Now tighten the 1/2" Hex Nuts, put on the 1/2" Acorn Nut and lightly tighten. Do not over tighten.

## 5.8 Jaguar Fort Monkey Bar Assembly

### PARTS NEEDED

Monkey Bar Assembly  
CC-149 Left Gusset (1)  
CC-148 Right Gusset (1)

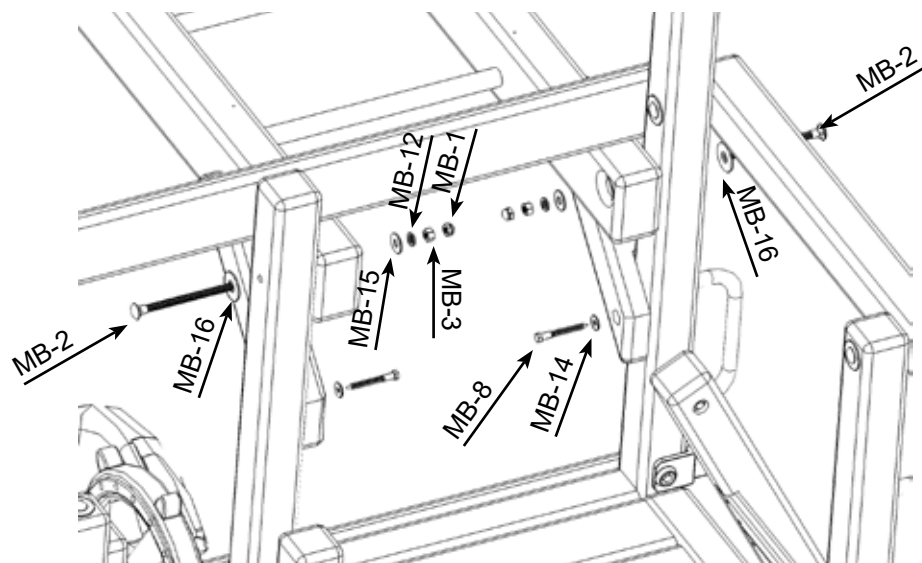
MB-1- 1/2"-13 Acorn Nut Plated- (2)  
MB-3- 1/2"-13 Hex Nut- (2)  
MB-8- 3/8" x 3 1/2" Hex Lag Screw- (4)  
MB-14- 3/8" Uss Flatwasher- (4)  
MB-16- 3/4" Uss Flatwasher- (1)  
C- 1/2"-13 Hex Nut- (1)  
P- 1/2" Uss Flatwasher- (1)

## 5.8 Jaguar Playcenter Monkey Bar Assembly

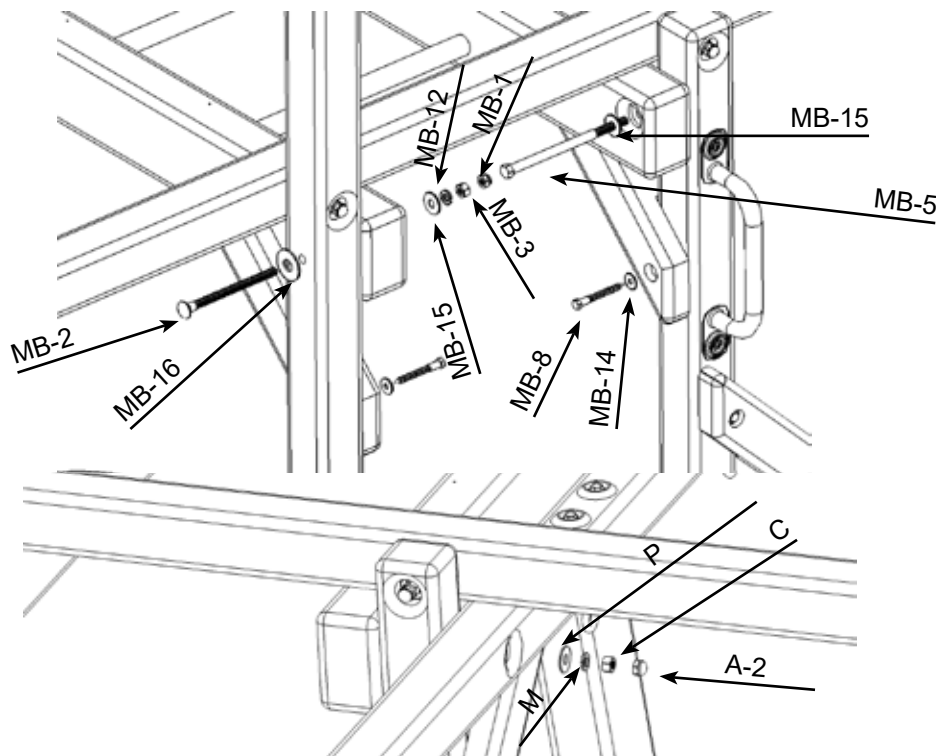
### HARDWARE NEEDED

MB-2- 1/2"-13 x 7" Carriage Bolt- (2)  
MB-5- 1/2"-16 x 9" Hex Bolt- (1)  
MB-12- 1/2" Split Lockwasher- (2)  
MB-15- 1/2" Uss Flatwasher- (2)  
A-2- 1/2"-13 Acorn Nut Plated- (1)  
M- 1/2" Split Lockwasher- (1)

On the other side place a 3/4" Flatwasher over a 1/2" x 7" Carriage Bolt and then insert thru the hole into the countersunk hole in the Monkey Bar Overhead. Place a 1/2" Washer, 1/2" Lockwasher over the 1/2" x 7" Carriage Bolt end inside the Monkey Bar Overhead. Thread the 1/2" Hex Nut on to the 1/2" x 7" Carriage Bolt. Now tighten the 1/2" Hex Nuts, put on the 1/2" Acorn Nut and lightly tighten. Do not over tighten. Place Left Gusset Bracket and attach with 2 - 3/8" x 3 1/2" Hex Lag Screw with 3/8" Flatwashers on them.



\*\*\*This step is only if you purchased a 5 or 5.8 Fort\*\*\*. Line up Monkey Bar Overhead countersunk holes with the holes below your 6 Hole Facia. Place a 3/4" Flatwasher over a 1/2" x 7" Carriage Bolt and then insert thru the hole into the countersunk hole in the Monkey Bar Overhead. Place a 1/2" Washer, 1/2" Lockwasher over the 1/2" x 7" Carriage Bolt end inside the Monkey Bar Overhead. Thread the 1/2" Hex Nut on to the 1/2" x 7" Carriage Bolt. Repeat this process on the other side. Now tighten the 1/2" Hex Nuts, put on the 1/2" Acorn Nut and lightly tighten. Do not over tighten. Place Left Gusset Bracket and attach with 2 - 3/8" x 3 1/2" Hex Lag Screw with 3/8" Flatwashers on them. Repeat this process for the Right Gusset Bracket on other side.

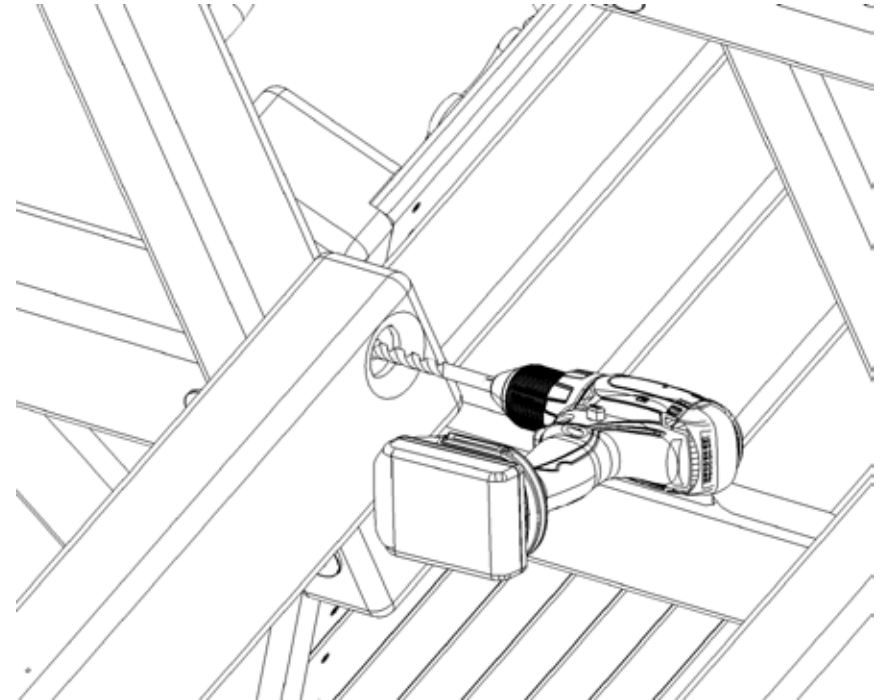
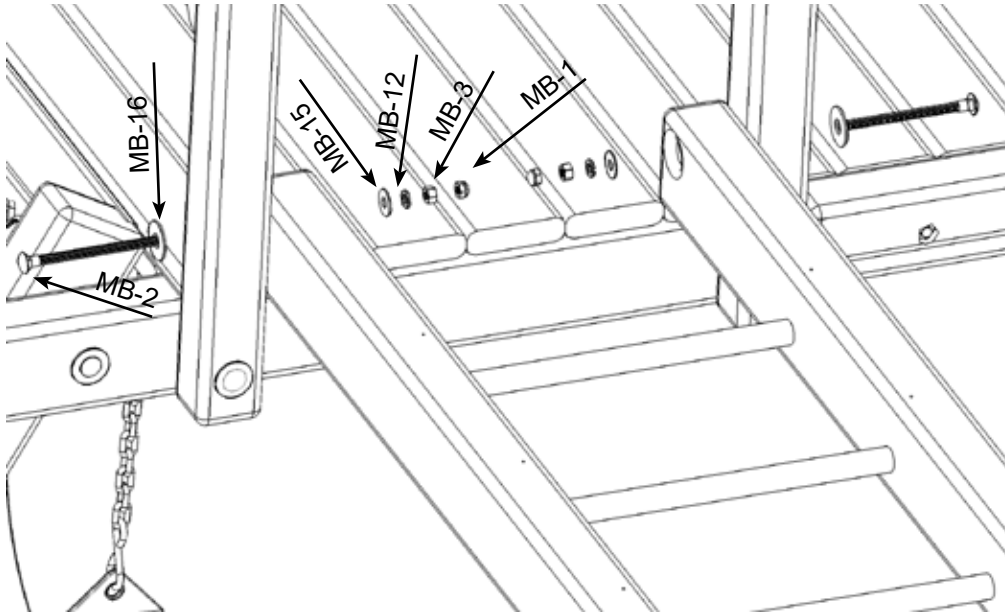


Remove the 1/2" x 7" Carriage Bolt and Hardware from the Corner Post. Then line up Monkey Bar Overhead countersunk holes with the holes in the Playcenter as seen above. Place a 1/2" Washer over the 1/2" x 9" Hex Bolt and then insert thru the Front Beam, then thru the Corner Post, and into the countersunk hole in the Monkey Bar Overhead. Place a 1/2" Washer, 1/2" Lockwasher over the 1/2" x 9" Hex Bolt end inside the Monkey Bar Overhead. Thread the 1/2" Hex Nut on to the 1/2" x 9" Hex Bolt. Place Right Gusset Bracket and attach with 2 - 3/8" x 3 1/2" Hex Lag Screw with 3/8" Flatwashers on them.

# 6.5 & 7.5 Monkey Bar Assembly

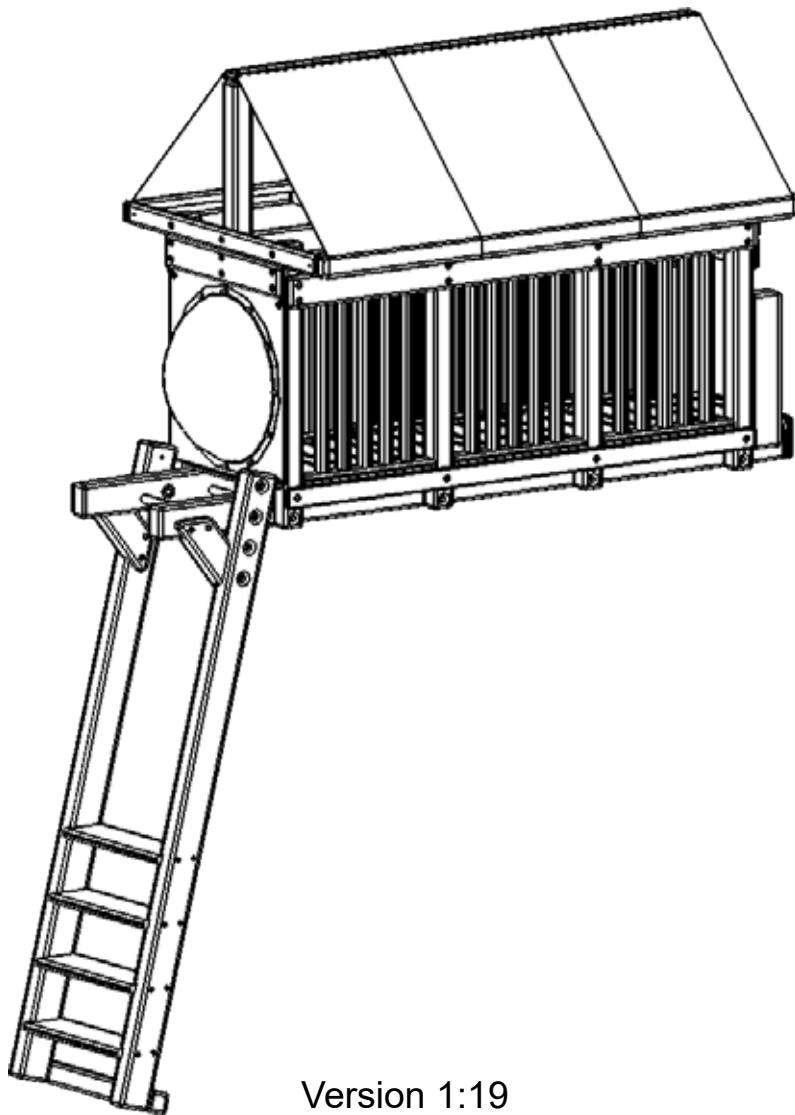
## HARDWARE NEEDED

MB-1- 1/2"-13 Acorn Nut Plated-	(2)	MB-2- 1/2"-13 x 7" Carriage Bolt-	(2)
MB-3- 1/2"-13 Hex Nut-	(2)	MB-12- 1/2" Split Lockwasher-	(2)
MB-15- 1/2" Uss Flatwasher-	(2)	MB-16- 3/4" Uss Flatwasher-	(2)



Set the Monkey Bar overhead on the deck(Fort) or line up the bottom of the Monkey Bar Overhead with the top of the Deck(Playcenter) and insert Monkey Bar Overhead in between the Corner Post and the Center Post. Make sure the ends of the Monkey Bar Overhead is flush with the inside of Corner Post and Center Post and then drill (see Figure 2) thru the Monkey Bar Overhead countersinks thru the Corner Post and Center Post. (On a playcenter swingset you will need to remove the Gusset on the Corner Post prior to drilling and then put the Gusset back on once all the Hardware is installed and tightened.) Place a 3/4" Flatwasher over a 1/2" x 7" Carriage Bolt and then insert thru the hole into the countersunk hole in the Monkey Bar Overhead. Place a 1/2" Washer, 1/2" Lockwasher over the 1/2" x 7" Carriage Bolt end inside the Monkey Bar Overhead. Thread the 1/2" Hex Nut on to the 1/2"x 7" Carriage Bolt. Repeat this process on the other side. Now tighten the 1/2" Hex Nuts, put on the 1/2" Acorn Nut and lightly tighten. Do not over tighten.

# Extended Loft Installation Manual



Version 1:19



4465 West Sam Houston Parkway N.  
Houston, Texas 77041  
[WWW.TREEFROGSSHOWROOMS.COM](http://WWW.TREEFROGSSHOWROOMS.COM)

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## Sections

Section 1: Cover & Liability Info  
Section 2: Product Parts  
Section 3: Sub-Assemblies  
Section 4: Main Assembly  
Section 5: Roof Options

## **IMPORTANT - PLEASE READ**

As fresh lumber acclimates to its new environment, the natural tendencies of the tree can show itself in the form of checks, or “cracks” in the lumber. In almost all cases this is normal and it will not affect the structural integrity of your play set.

Cosmetic defects that do not affect the structural integrity of the product, or natural defects of wood such as warping, checking or any other physical properties of wood that do not present a safety hazard, are not covered by this warranty.

Defects that develop because the product is exposed to extreme climate conditions are not covered by this warranty. Defects that develop as a result of faulty or improper installation of the product are also not covered by this warranty.

Most cracks are not warrantable, however if you believe that the integrity of your play set is compromised by this natural occurrence, please contact the Tree Frogs Swing Set Dealer that you purchased your swing set from.

We appreciate your purchase and know that you will enjoy your play system for many years to come.

### **Tools Needed for Assembly**

Tape Measure	24" Level	Angle Square
Phillips Screw Driver	3/8" Cordless Drill or Electric Drill	3/8" Drive Ratchet or Electric Impact Gun
Claw Hammer or Rubber Mallet	Pliers or Vise Grips	7/16" Deep Well Socket
9/16" Deep Well Socket	3/4" Deep Well Socket	1/8", 1/4", and 9/16" Drill Bits
Phillips Head Screw Bits	An Adult with two Adult Helpers	

Please familiarize yourself with the install manual, parts/components and general construction process of your new swing set before getting started. Approximate assembly time: 6 to 8 hours. 6 foot unobstructed safety perimeter around swingset recommended.

## **Pre-Assembly Hints**

- Depending on your experience, assembly of our play sets can take as little as 6 hours up to 24 hours, depending on size, after inventory of parts; therefore, we recommend you set aside a full two days for assembly.
- Identify all of the parts for your play set. Empty each box and lay out boards so you can see each part. Your instruction book will have detailed drawings that will make it easy for you to recognize individual parts. Keep all hardware and metal parts separate from wooden pieces.
- After everything is laid out, check carefully to ensure all parts are present. Make sure there are no broken boards.
- Find an area to sort your hardware. It is best to open the hardware on a solid surface so that you do not lose any pieces in the grass.  
This will save time and familiarize you with all the different pieces in the hardware bag.
- **\*\*Important note: Wood has some natural defects such as knots, surface cracks, etc... We reject parts that are structurally defective. We use a high quality lumber in our structures; however, you should inspect each part for splinters or rough spots and sand them smooth to prevent injury.\*\***
- After familiarizing yourself with all of the components, read all instructions thoroughly. Reading instructions after you have studied the parts will help you understand more clearly the installation process, and help to eliminate unnecessary mistakes.
- Pay close attention to the diameter and length of each bolt and screw.
- Never tighten hardware completely at first. It helps to have some adjustment for bolt alignment while you are attaching parts together. After everything is square, tighten each joint.
- After the main unit is assembled it is critical that the floor is level and square. If the main frame is not level, the walls and floor will be out of square.
- After you complete installation, make sure every bolt, screw, and nut is tight, and every board is secure. Wood will expand and contract with the seasons.
- Place the set on level ground, not less than 6ft from any structure or obstruction such as a fence, garage, house, overhanging branches, laundry lines, or electrical wires.
- All 1/4" and 3/8" lag bolts must have pre-drilled holes 1-1/2" to 2" deep. Use a 1/8" drill bit for the 1/4" lag bolts and 1/4" drill bit for 3/8" lag bolts. Use pre-drilled holes in facias as a reference for placing lag bolt pilot holes.
- If a board lifts or rises causing a gap between boards when running in lag bolts or screws, back out the screw or lag bolt and press or apply pressure (but not enough to crack or break board) while re-running in the lag bolt or screw in the same hole.
- Do not over tighten bolts, lag bolts or screws. You can damage boards, break hardware, and/or strip out the hardware.
- When using hammer do not beat on the hardware, but gently tap it in. Never beat on the wood as it will leave marks.

## **Leveling Your Swing Set During Assembly**

- Complete the steps which will be the basic frame of the fort {i.e. four corner posts with base (sand box boards) and deck supports}
- Position in the most level area chosen for the play set, keeping in mind the location and size of the swing beam, ladder, slides, etc. that extend off the fort.
- Once the frame is in the final position, check for vertical and horizontal levelness to determine which side(s) will need to be dug into the ground to level the play set.
- With a shovel, score the ground around the outside edges of the sandbox boards on the 'high' side of the fort. This is the area that will be dug in. Make sure to score deep enough; the scored lines will be your digging template.
- Push the frame off and away from the scored area, far enough to dig and remove dirt to reach the appropriate depth.
- Dig a channel along the scored line(s) for the base of the fort (corner post and sandbox boards) to rest into. Dig the channel(s) to the same level depth. The bottom of the channel(s) should be level to each other so your frame doesn't teeter or rock because the channel(s) are uneven.
- Once you have removed enough grass and dirt, slide/push the frame into the channel(s). Place a level on the vertical and horizontal boards of the frame to determine if enough soil, or too much, was removed.
- Repeat this process until the basic frame is plumb and level and in its final position before completing the rest of the assembly.
- Measure to make sure fort is square.

**\*\* Important: if you require a channel depth of more than 6", then we recommend you have your play set area professionally graded before completing assembly. \*\***



## **Choosing A Location For Your Playset**

When choosing a location for your swing set, always keep your child or children's safety in mind. Here are some recommendations to help you locate and install a safe play area.

- This play set is designed for the use of 4 occupants who have a combined weight not exceeding 800 pounds on the elevated floor; 3 occupants who have a combined weight of 525 pounds on the swing area; for a total Unit capacity of 5 occupants who have a combined weight of 1325. (this weight is not including the picnic table area)
- On-site adult supervision is required.
- The swing set should be located on level ground. The stationary components such as ladders and slides are required to be a minimum of six feet from any structure or obstruction such as a fence, garage, house, tree, overhanging branches, electrical wires, clotheslines, etc. Any swinging equipment is also required to be a minimum distance twice the height of the swing beam away from these obstructions or structures as well. The swing set should be located a safe distance from any water hazards, such as a lake, river, bayou, swimming pool, etc.
- Do not install this residential swing set in a commercial setting. This swing set is not manufactured for commercial usage and will void all warranties. Tree Frogs Wooden Swing Set Factory is not responsible for any damages or injuries resulting from this swing set being used in a commercial setting.
- Never install this swing set indoors; or over concrete, asphalt, packed earth, grass, carpet or any other hard surface. A fall onto a hard surface can result in serious or fatal injury.
- The U.S. Consumer Product Safety Commission (CPSC) recommends that you install and maintain a resilient surface under your swing set. The CPSC's Consumer Information Sheet for Playground Surfacing Materials is on the next page. A resilient surface, should be installed after the swing set has been completely assembled according to these instructions. The swing set must rest on solid ground. Please note that this swing set has a maximum fall height of 7'.

## **Maintaining Your Swing Set**

**Here are some maintenance tips required to insure safe play on your swing set for years of fun.**

- At the beginning of each usage season and every two weeks during, check: nuts and bolts and tighten as needed, swing seats, chains, ladders, slides, rope and wood components for sign of deterioration and replace if necessary.
- On a yearly basis, we recommend that you coat your swing set with a sealant or preservative. You may also want to spot sand any areas prior to sealing.

**\*\* Special note: Although we recommend that you reseal your swing set annually, you may have to touch up the high traffic areas and/or areas that have a high exposure to direct sunlight.\*\***

- Be sure that the sealant you select is non-toxic and child safe. Your local Tree Frogs Wooden Swing Set Factory dealer may offer a complete power wash and reseal and maintenance program.
- Do not use line trimmers or "weed eaters" around your swing set. The line will remove both paint and wood from uprights and base pieces. Any damage resulting from this type of abuse is not covered under our limited warranty.
- Remove plastic swing seats and take indoors or do not use when temperature drops below 0°F.

**Please keep this install manual for future reference.**

## **To insure SAFE PLAY adults must teach children:**

- Not to walk close to, in front of, behind, or between moving items.
- Not to swing empty swing seats.
- Not to swing sideways into the path of adjacent swings.
- Not to use the swing set in a manner other than that for which it is intended.
- Not to get off the equipment while it is in motion.
- Not to jump off the tower.
- Not to stand in the swing seats.
- Not to swing so high that chains become slack, or above the height of the swing support.
- Not to jump on a slide.
- Not to climb on top of the swing support.
- Not to attach to the swing set any item that is not specifically designed for use with the equipment, such as (but not limited to) jump ropes, clotheslines, pet leashes, cables, and chains. These may become strangulation hazards.
- To hold on to swings and climbers with both hands.
- To slide feet first, never head first.
- To watch for other children while swinging or playing near the swing set.

## **To also insure SAFE PLAY adults must:**

- Limit climbing and swinging heights to each child's ability.
- Verify that suspended climbing ropes are secured at both ends.
- Verify that suspended climbing ropes cannot be looped back on themselves.
- Dress children appropriately for play. Use well-fitted shoes that do not have slippery soles.
- Avoid ponchos, scarves, hoods, loose fitting clothing, neckties, and any clothing with a drawstring. Serious injury could result should any part of the children's clothing become entangled in the swing set.
- Do not allow children to play wearing helmets.
- Remember that children are inventive. When they develop games that are unsafe, be alert and change the rules.

## **Weight limits for Treefrogs Swingsets**

Fort Platform: 800 Lbs.Total Weight.

Swing Belts: 175 Lbs.

Trapeze: 125 Lbs.

Full Bucket Swing: 50 Lbs.

Toddler Bucket Swing: 50 Lbs.

Tire Swing: 125 Lbs. Total Weight

Rope Ladder: 75 Lbs.

Rock Wall: 150 Lbs.

All Slides: 125 Lbs.

Tree Frogs recommends that the weight limits for all components must not be exceeded. Failure to adhere to these and other safety guidelines could result in damage to the swing set. and/or injury to the users.

## CONSUMER INFORMATION SHEET FOR PLAYGROUND SURFACING MATERIALS

The U.S. Consumer Product Safety Commission (CPSC) estimates that about 100,000 playground equipment related injuries resulting from falls to the ground surface are treated annually in U.S. hospital emergency rooms. Injuries involving this hazard pattern tend to be among the most serious of all playground injuries, and have the potential to be fatal, particularly when the injury is to the head. The surface under and around playground equipment can be a major factor in determining the injury-causing potential of a fall. It is self-evident that a fall onto a shock-absorbing surface is less likely to cause a serious injury than a fall onto a hard surface. However, it should be recognized that some injuries from falls will occur no matter what playground surfacing material is used.

Playground equipment should never be placed on hard surfaces such as concrete or asphalt. Grass may appear to be acceptable, but can turn to hard packed earth in areas of high traffic. Shredded bark mulch, wood chips, or fine gravel are considered to be acceptable shock absorbing surfaces when installed and maintained at a sufficient depth under and around play equipment.

TABLE 1 -CRITICAL HEIGHTS (in feet) OF TESTED MATERIAL

MATERIAL	UNCOMPRESSED DEPTH			COMPRESSED DEPTH
	6 Inch	9 Inch	12 Inch	
Wood Chips	7	10	11	10
Double Shredded Bark Mulch	6	10	11	7
Engineered Wood Fibers	6	7	>12	6
Fine Sand	5	5	9	5
Coarse Sand	5	5	6	4
Fine Gravel	6	7	10	6
Medium Gravel	5	5	6	5
Shredded Tires**	10-12	N/A	N/A	N/A

\*\* This is data from tests conducted by independent testing laboratories on a 6 inch depth of uncompressed shredded tire samples produced by four manufacturers. The test reported critical heights, which varied from 10 feet to greater than 12 feet. It is recommended that persons seeking to install shredded tires as a protective surface request test data from the supplier showing the critical height of the material when it was tested in accordance with ASTM F1292.

Table 1 should be read as follows: If, for example, uncompressed wood chips are used at a minimum of 6 inches, the Critical Height is 7 feet. If 9 inches of uncompressed wood chips are used, the Critical Height is 10 feet. It should be noted that, for some materials, the Critical Height decreases when the material is compressed. It is recommended that a shock absorbing material should extend a minimum of 6 feet in all directions from the perimeter of stationary equipment such as climbers and slides. However, because children may deliberately jump from a moving swing, the shock absorbing material should extend in the front and rear of a swing a minimum distance of 2 times the height of the pivot point measured from a point directly beneath the pivot on the supporting structure.

This information is intended to assist in comparing the relative shock-absorbing properties of various materials. No particular material is recommended over another. However, each material is only effective when properly maintained. Materials should be checked periodically and replenished to maintain correct depth as determined necessary for your equipment. The choice of a material depends on the type and height of the playground equipment, the availability in your area, and its cost.

This information has been extracted from the CPSC publications "Playground Surfacing-Technical Information Guide" and "Handbook for Public Playground Safety." Copies of these reports can be obtained by sending a postcard to:

Office of Public Affairs  
U.S. Consumer Product Safety Commission  
Washington, D.C. 20207

Toll-free Hotline: 1-800-638-2772 or at <http://www.cpsc.gov>

# 2018 TREE FROGS Limited Lifetime Warranty

## Limited 10-Year Warranty, Limited 5-Year Warranty

Tree Frogs Warranties all Jaguar Playcenter Series, Bengal Forts Series, MegaDeck Fort Series Redwood components and Cedar components against structural failure due to warping, wood rot, insect infestation (excluding Carpenter Bees) or decay for the period of 10 Years from the date of original purchase. This warranty does not cover cracks, fissions, checks, fading, knots and weathering that are normal natural characteristics of wood, that do not affect the structural integrity of the product. The Redwood and Cedar components warranty is extended to a Limited Lifetime Warranty to the original owner upon registering this warranty within 90 days of purchase at [www.treefrogsswingsets.com](http://www.treefrogsswingsets.com).

Tree Frogs Warranties all Parrot Island Fort Series, Parrot Island Playcenter Series, Rainforest Cottage Series Cedar components against structural failure due to warping, wood rot, insect infestation (excluding Carpenter Bees) or decay for a period of 10 Years from the date of original purchase. This warranty does not cover cracks, fissions, checks, fading, knots and weathering that are normal natural characteristics of wood, that do not affect the structural integrity of the product.

Tree Frogs Warranties all Toucan Fort Series, Toucan Playcenter Series, Orangutan Fort Series, Stand Alone Swings Cedar components against structural failure due to warping, wood rot, insect infestation (excluding Carpenter Bees) or decay for a period of 5 Years from the date of original purchase. This warranty does not cover cracks, fissions, checks, fading, knots and weathering that are normal natural characteristics of wood, that do not affect the structural integrity of the product.

In addition, a 10-Year Limited Warranty applies to all roto-molded slides, ductile iron swing hangers, tire swivels, metal climbing rungs and swing beam brackets against failure due to rust or failure in defect in material. Surface rust, fading, weathering, cracks/chips in coatings and corrosion that do not affect structural integrity are not covered by this warranty. Furthermore, a 5-Year Limited Warranty applies to all components & accessories including all swings, chain ladders, gliders, handles, brackets, bubble panels, tarps, steering/ships wheels, telescopes, binoculars, buoy ball, blow molded slides and disc seat that are not covered under the 10-Year Warranty to be free from defects in material and workmanship. Surface rust, fading, weathering, cracks/chips in coatings and corrosion that do not affect structural integrity are not covered by this warranty.

And for a period of 1-Year Tree Frogs warranties all ropes, structural foam molded slides to be free of defects in material and workmanship. Fading is not considered a defect and may occur with seasonal and geographical conditions.

**\*\*10-Year Warranty Exclusion:** Toucan Fort Series, Toucan Playcenter Series, Orangutan Series, Stand Alone Swings (Limite 5Yr/5Yr/1Yr WARRANTY).

This warranty is limited to a repair or replacement of the defective part. Product covered under this warranty will be shipped at the customer's expense. Tree Frogs is not responsible for any expense associated with freight, or delivery and installation of the warranted part(s). Tree Frogs reserves the right to inspect all warranty claim parts for which a claim has been made.

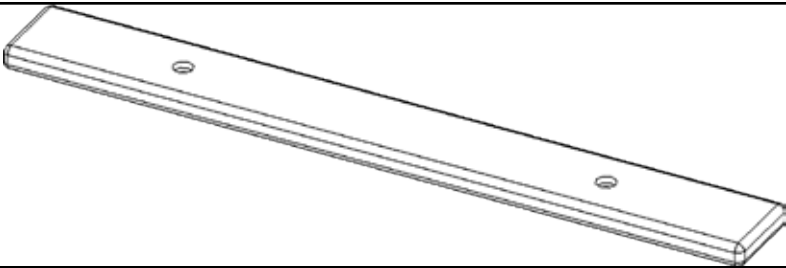
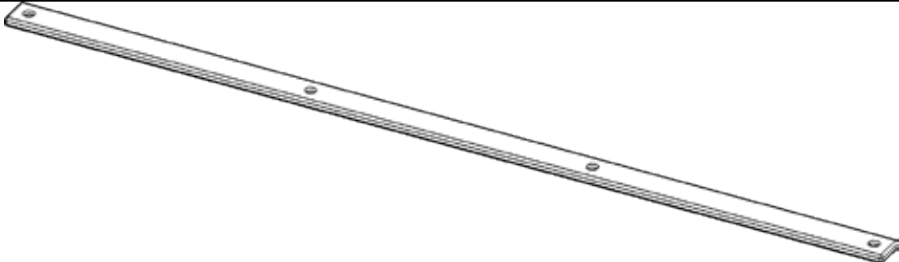
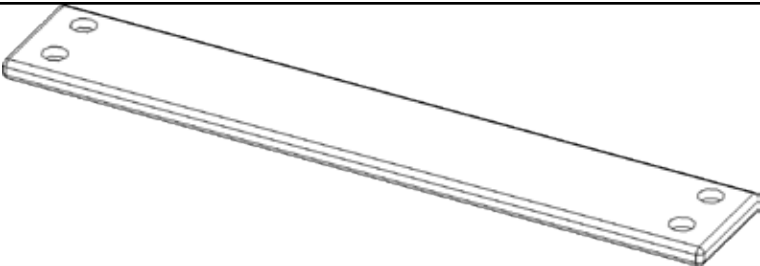
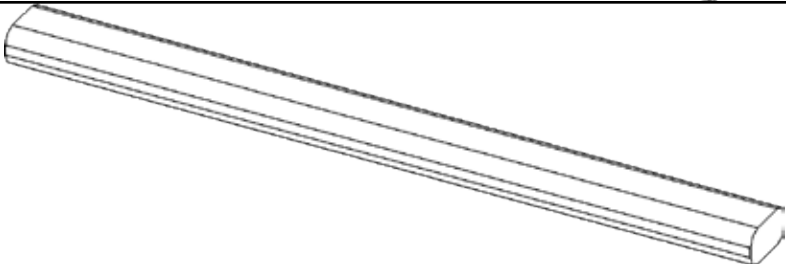
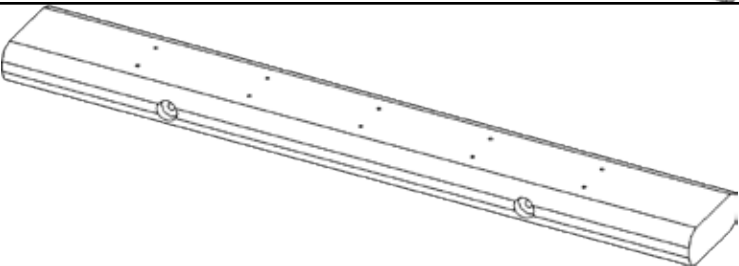
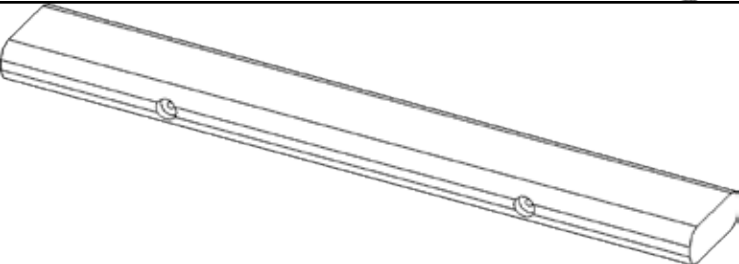
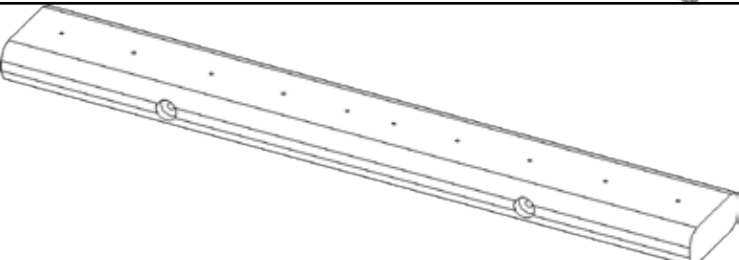
This limited warranty applies only to the original retail purchaser and for residential use only, non-residential use voids warranty. These warranties void when product is transferred or sold or no longer in possession by original owner. A copy of the original invoice must be presented to initiate warranty claim. This limited warranty does not cover damage from abuse, acts of God, vandalism, maintenance guideline neglect, alterations, normal wear & tear, use other than residential, unauthorized modification, damage due to moving of product or improper installation and or use. Any modification could damage the structural integrity of the play system and voids all warranties.

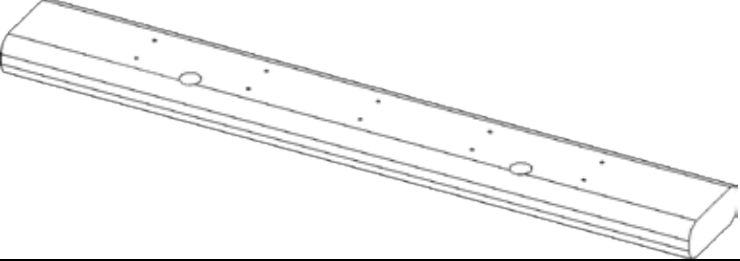
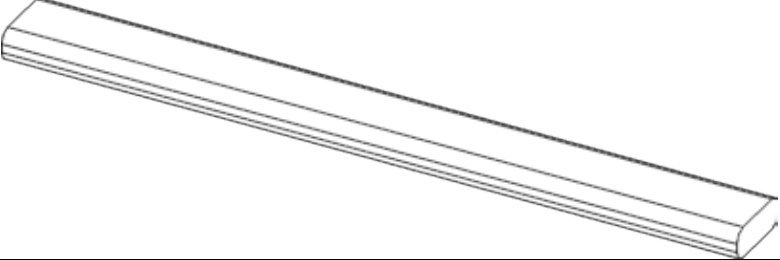
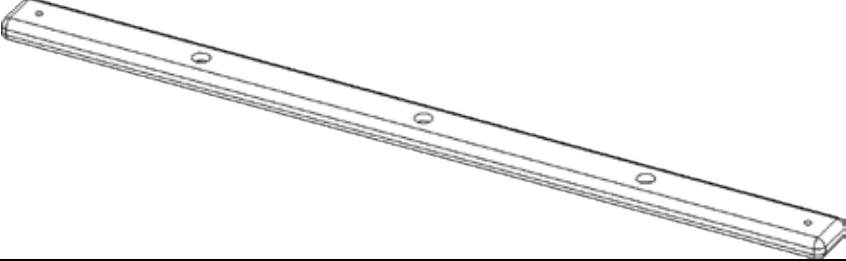
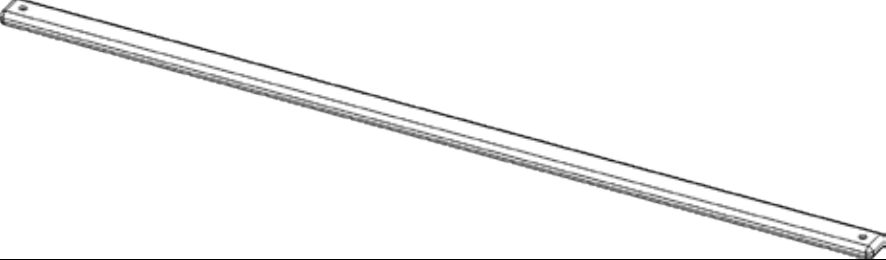
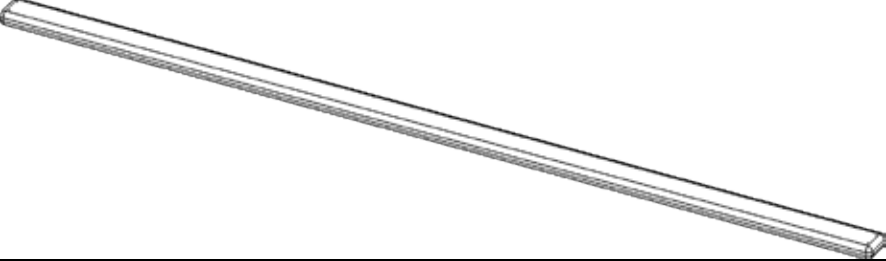
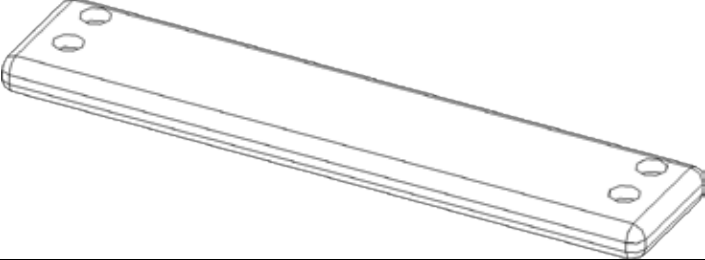
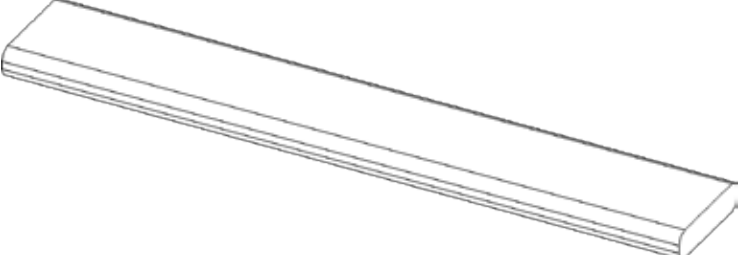
This warranty is exclusive and expressly in lieu of all other warranties, expressed or implied, including warranties of merchantability or fitness for use. Tree Frogs does not assume, or authorize any person to assume for us, any other liability in connection with the sale of our products.

This warranty gives you specific legal rights, and you also may have other rights that vary from state to state. Register your play system's warranty at [www.treefrogsswingsets.com](http://www.treefrogsswingsets.com).

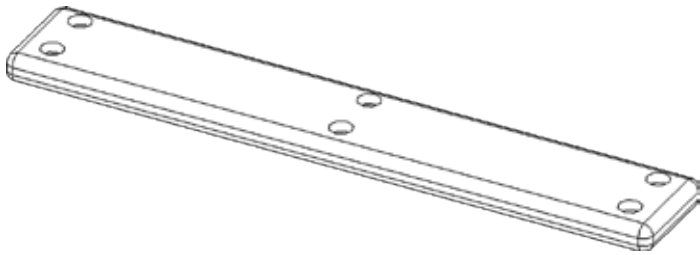
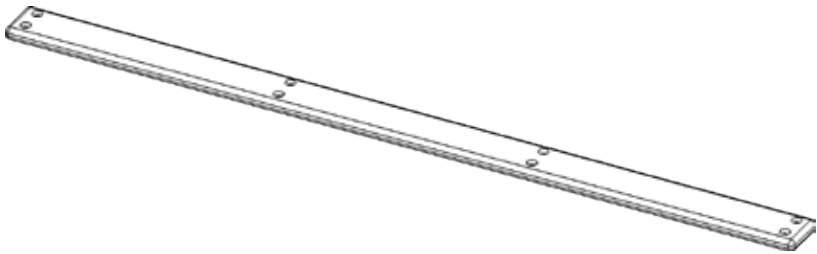
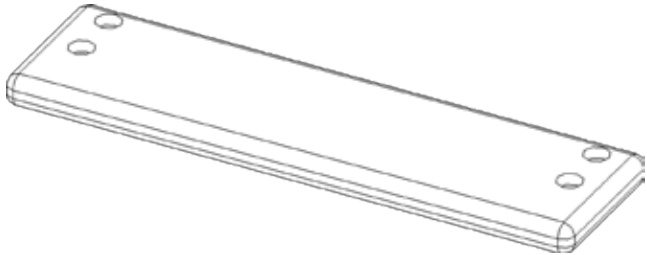
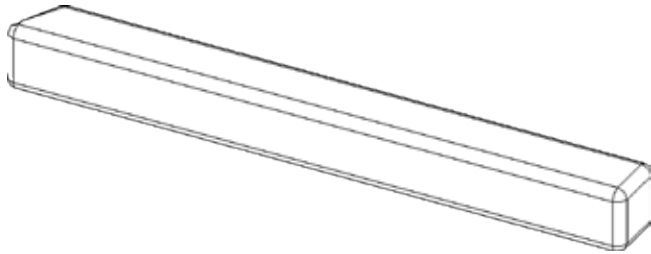
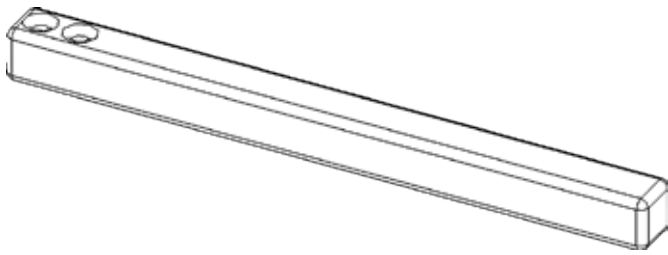
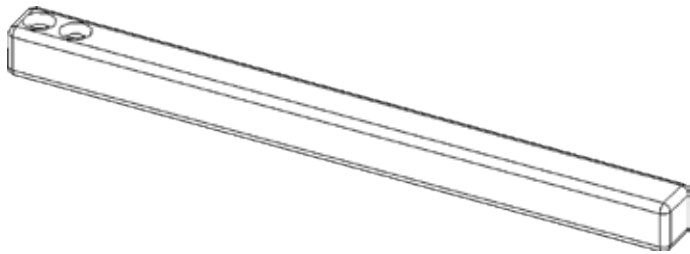
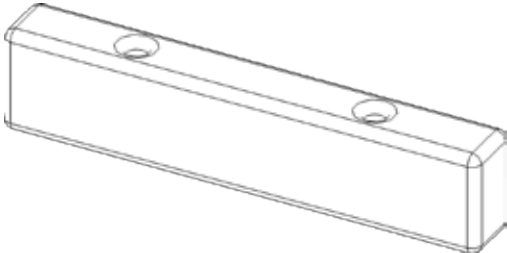
Tree Frogs reserves the right at any time to change product specifications or substitute similar components.

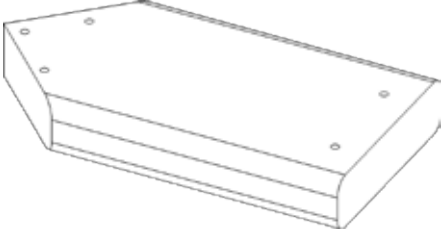

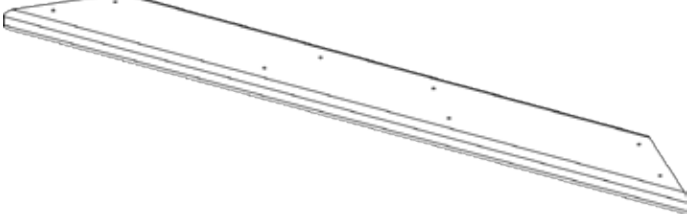
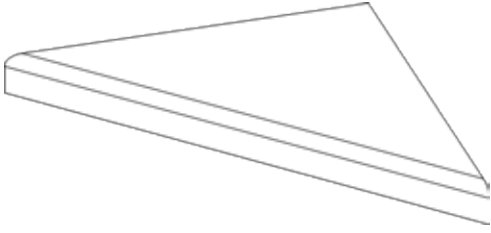
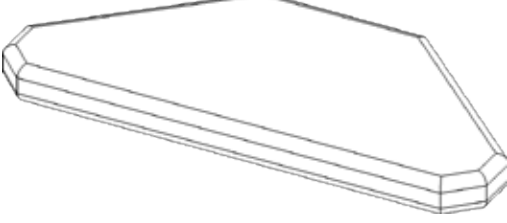
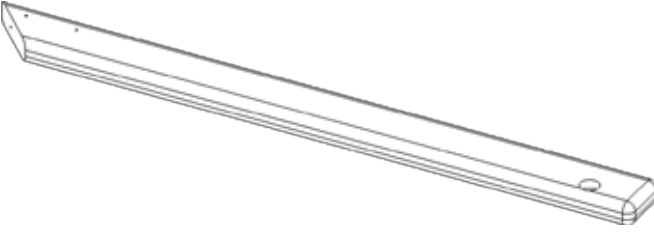
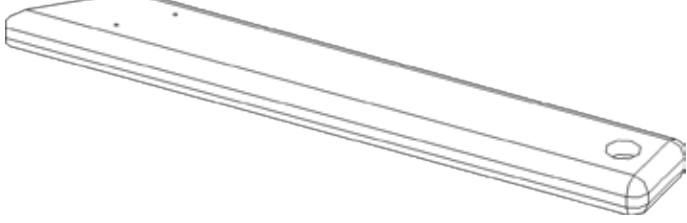
See your instruction manual for guidelines on regular maintenance. <http://treefrogsshowrooms.com/installation-manuals/>. Your child's play system & perimeter play zone should be inspected regularly for any wear & safety hazards.

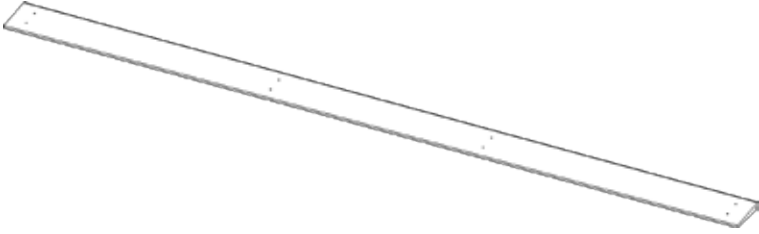
KSI-046 Extended Loft Lumber	Description	QTY.
	(CC-021) 046-1 28" Spiral Slide Filler	2
	046-2 89 1/4" 4- Hole Facia	2
	(CC-062) 046-3 32" Entrapment Facia	1
	(CC-088) 046-4 27 1/2" Rail Spindle	30
	(CC-099) 046-5 25" Rail Top	6
	(CC-101) 046-6 25" Universal Filler	5
	(CC-102) 046-7 25" Deck Runner	6

KSI-046 Extended Loft Lumber	Description	QTY.
	(CC-100) 046-8 25" Rail Bottom	6
	(CC-109) 046-9 32" Deck Board	3
	(CC-112) 046-10 53" Top Joist	2
	046-11 89 1/4" Tarp Center	1
	046-12 92" Tarp Side Facia	2
	(CC-138) 046-13 25" Entrapment Board	1
	(CC-139) 046-14 32" Deck Board	12



KSI-046 Extended Loft Lumber	Description	QTY.
	(CC-140) 046-15 32" 6- Hole Facia	2
	046-16 89 1/4" 8- Hole Facia	2
	(CC-141) 046-17 25" Entrapment Board	1
	(CC-181) 046-18 32 5/16" Tarp Upright	2
	(CC-180) 046-19 41" Center Upright	4
	(CC-179) 046-20 46" Corner Post	4
	(CC-194) 046-21 25" Entrapment Block	2

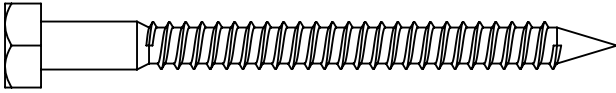
KSI-047 Extended Loft Wood Roof Lumber	Description	QTY.
	(CC-197) 047-1 6 5/16" Short Fan Board	4
	(CC-006) 047-2 8 7/16" Center Fan Board	2
	(CC-022) 047-3 28 3/4" Bottom Fan Board	2
	(CC-055) 047-4 11 1/16" Peak Support	4
	(CC-056) 047-5 11 7/16" Fan Cap	2
	(CC-110) 047-6 39 3/8" Wood Roof Support	8
	047-7 22" Center Wood Roof Support	4

KSI-047 Extended Loft Wood Roof Lumber	Description	QTY.
	047-8 92" Wood Roof Board	18

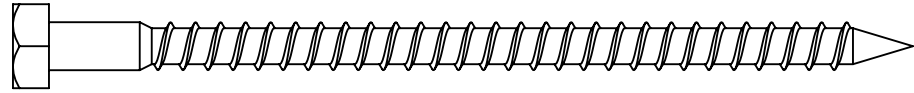
# EXTENDED LOFT - 047- HWR-BAG

INSTALLER NOTE: (YOU MUST ASSEMBLE THIS PRODUCT IN ACCORDANCE WITH THESE ASSEMBLY INSTRUCTIONS. WHEN COMPLETE GIVE MANUAL TO OWNER.)

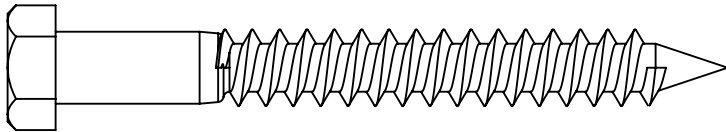
A-1  
1/4"x3" Hex Lag Screw ZP  
QTY. 17



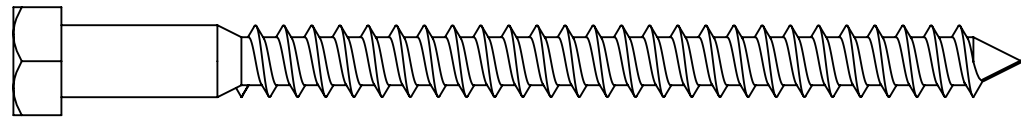
A-2  
1/4"x 4 1/2" Hex Lag Screw  
QTY; 37



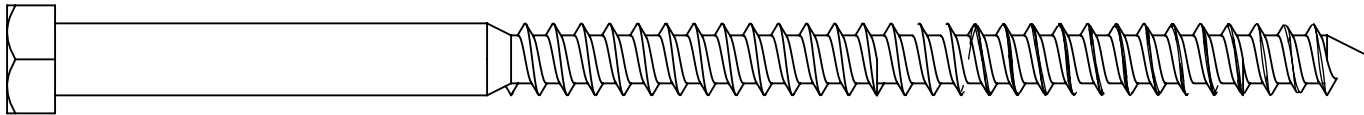
A-3  
3/8" x 3 1/2" Hex Lag Screw  
QTY. 55



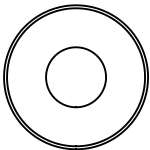
A-4  
3/8" x 5" Hex Lag Screw  
QTY. 16



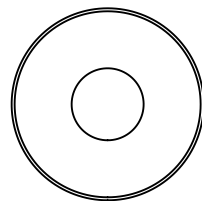
UL-5  
3/8" x 7" Hex Lag Screw  
QTY. 4



A-5  
1/4" Uss Flatwasher ZP  
QTY. 54



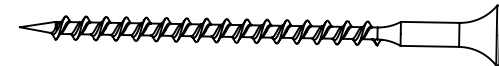
A-6  
3/8" Uss Flatwasher ZP  
QTY. 75



A-7  
#2 & #3



Bag-B  
#8 x 2 1/2" Coated Deck Screw  
QTY. 190



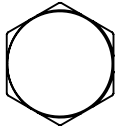
MEASUREMENT TAKEN FROM BOTTOM OF BOLT HEAD TO THE BOTTOM OF BOLT

USE THE RULER TO MEASURE YOUR BOLTS AND SCREWS. HARDWARE VIEWS SHOWN ABOVE ARE 1:1 SCALE AND CAN BE USED TO MATCH HARDWARE SIZES.

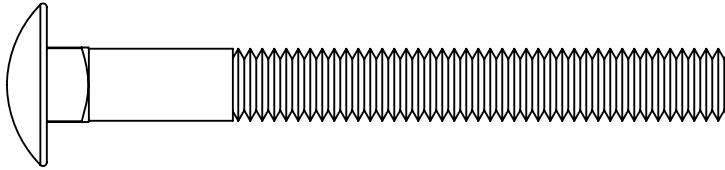
# KSI-047 EXTENDED LOFT WOOD ROOF HARDWARE

INSTALLER NOTE: (YOU MUST ASSEMBLE THIS PRODUCT IN ACCORDANCE WITH THESE ASSEMBLY INSTRUCTIONS. WHEN COMPLETE GIVE MANUAL TO OWNER.)

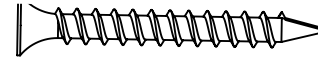
WR-1  
3/8" Acorn Nut Plated  
QTY. 4



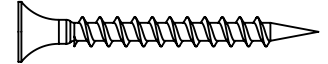
WR-2  
3/8" x 3" Carriage Bolt ZP  
QTY. 4



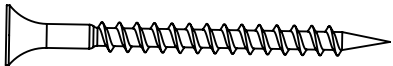
WR-3  
1 1/2" Coated Deck Screw  
QTY. 20



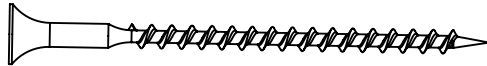
WR-4  
1 5/8" Coated Deck Screw  
QTY. 192



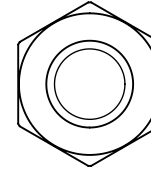
WR-5  
2" Coated Deck Screw  
QTY. 20



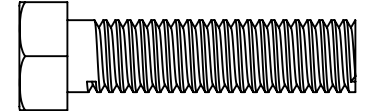
WR-6  
2 1/2" Coated Deck Screw  
QTY. 16



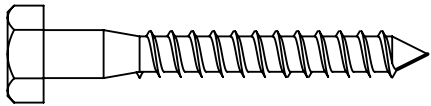
WR-7  
3/8" Hex Nut ZP  
QTY. 4



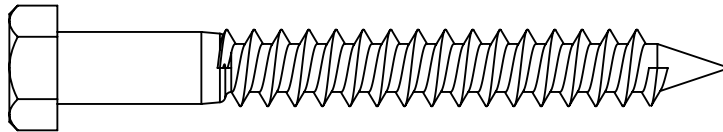
WR-8  
3/8" x 1/2" Hex Bolt  
QTY. 6



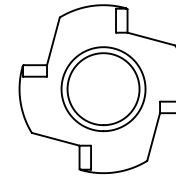
WR-9  
1/4" x 2" Hex Lag Screw  
QTY. 8



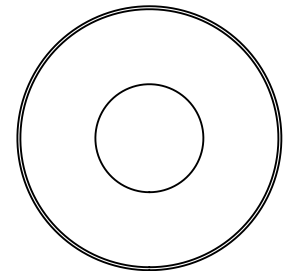
WR-10  
3/8" x 3 1/2" Hex Lag Screw  
QTY. 4



WR-11  
3/8" 4 Prong T- Nut  
QTY; 6



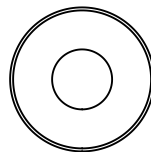
A-12  
1/2" Uss Flatwasher ZP  
QTY; 4



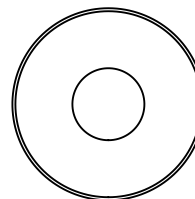
WR-12  
3/8" Split Lockwasher ZP  
QTY. 4



WR-13  
1/4" USS Flatwasher  
QTY. 8

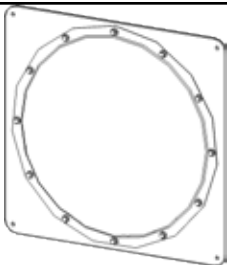
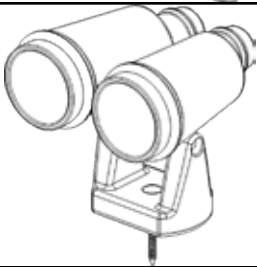


WR-14  
3/8" Uss Flatwasher ZP  
QTY. 14



MEASUREMENT TAKEN FROM BOTTOM OF BOLT HEAD TO THE BOTTOM OF BOLT

USE THE RULER TO MEASURE YOUR BOLTS AND SCREWS. HARDWARE VIEWS SHOWN ABOVE ARE 1:1 SCALE AND CAN BE USED TO MATCH HARDWARE SIZES.

KSI-046 Extended Loft Accessories	Description	QTY.
	046-A Bubble Panel	1
	046-B Binocul;ar	1



# Extended Loft- Sub Assemblies

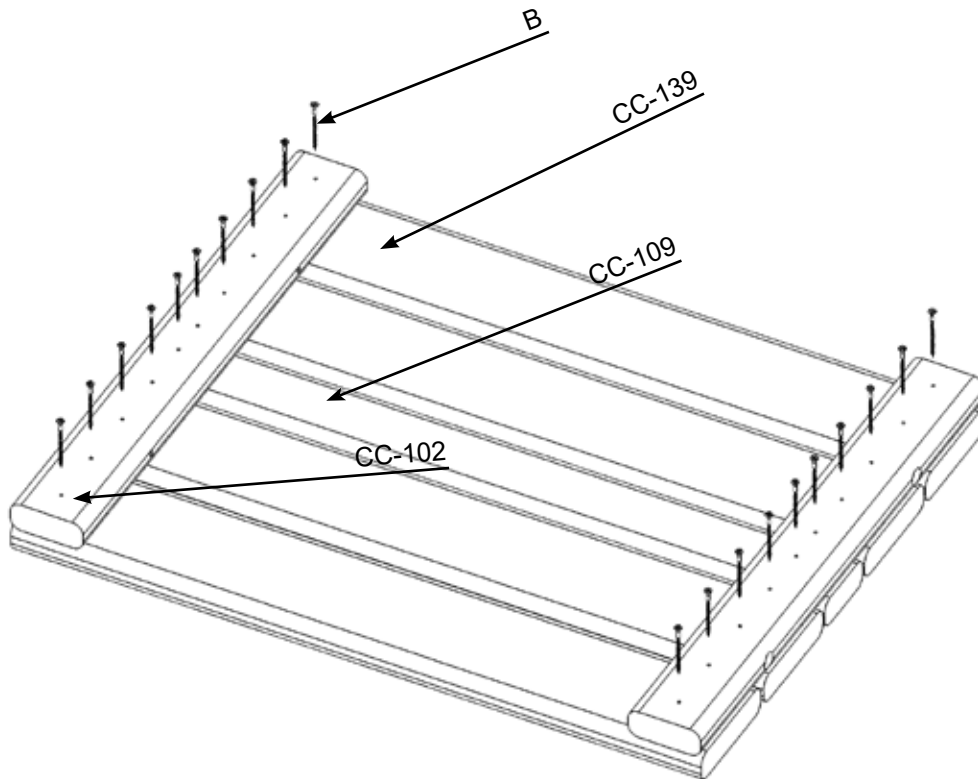
## PARTS NEEDED

CC-088- Rail Spindle-	(20)	CC-099- Universal Rail Top-	(4)
CC-100- Rail Bottom-	(4)	CC-102- Deck Runner-	(4)
CC-109- Deck Board-	(2)	CC-139- Deck Board-	(8)

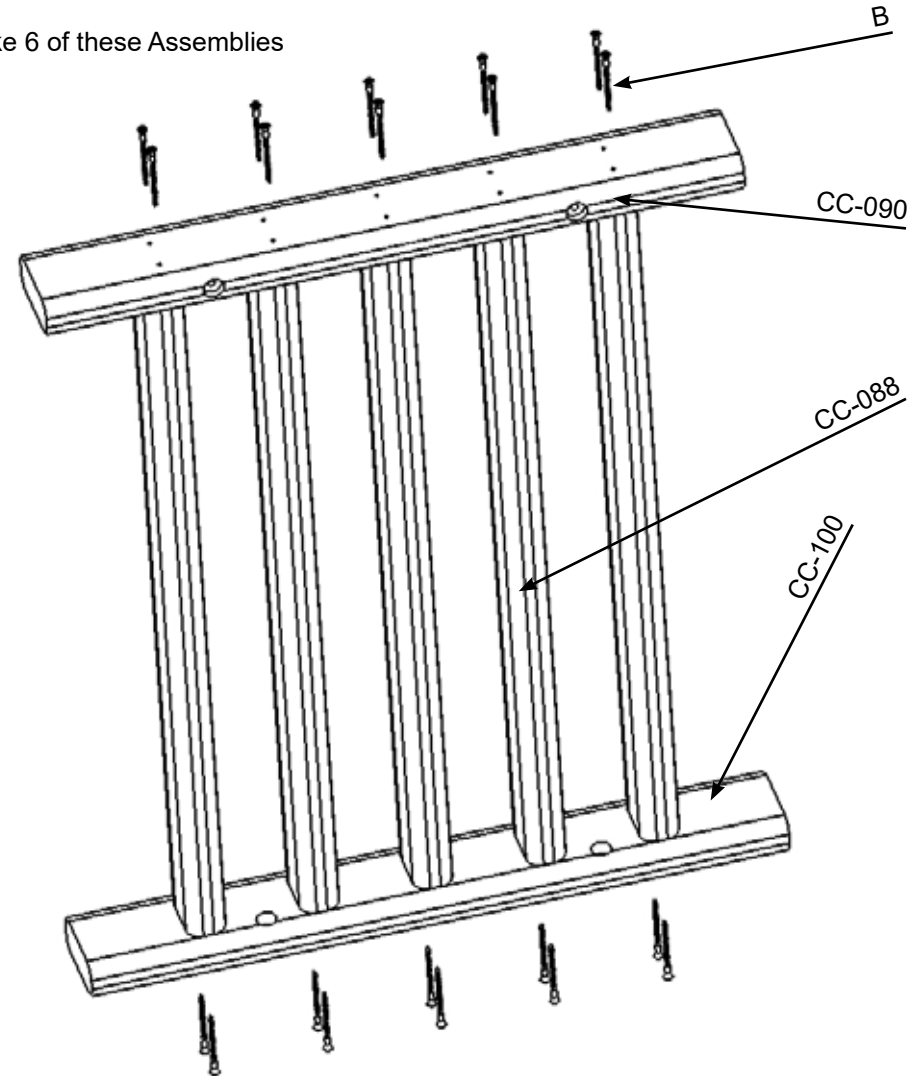
## HARDWARE NEEDED

B- #8 x 2 1/2" Coated Deck Screw-	(180)
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Make 3 of these Assemblies



Make 6 of these Assemblies



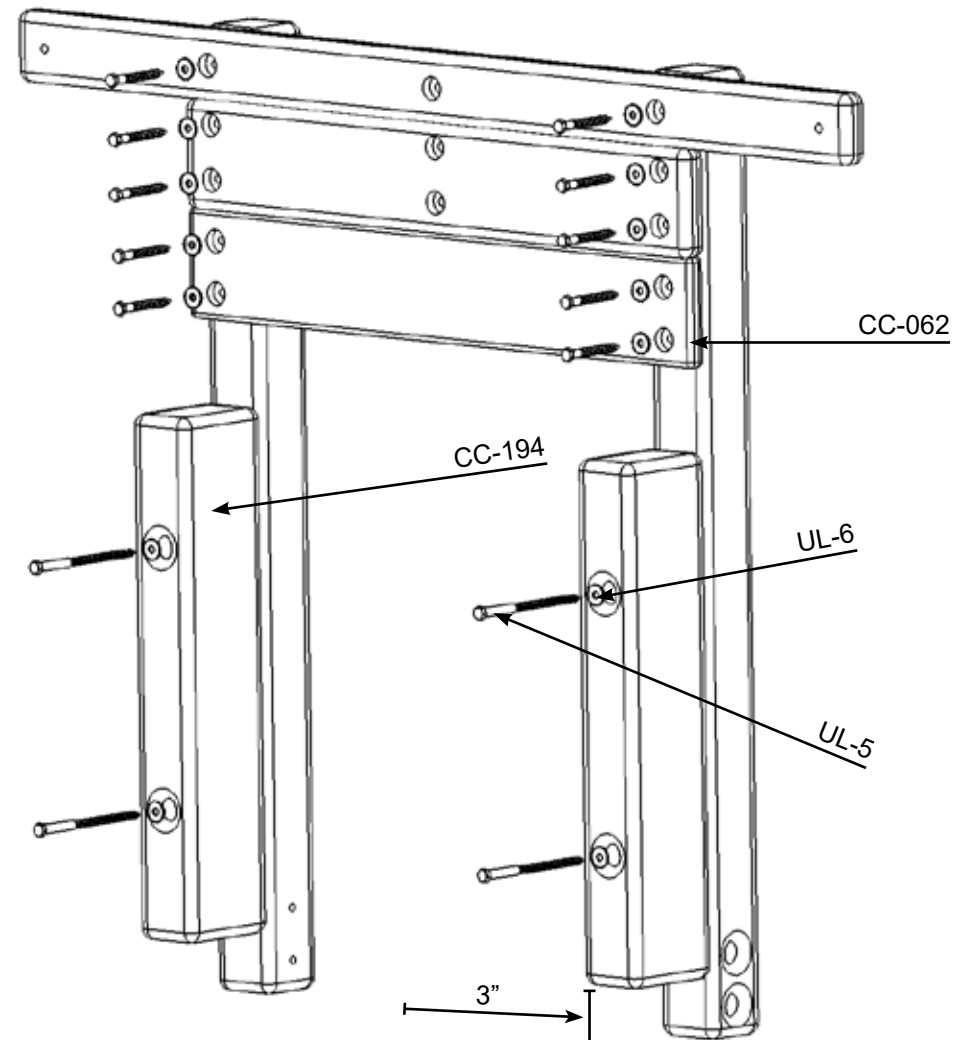
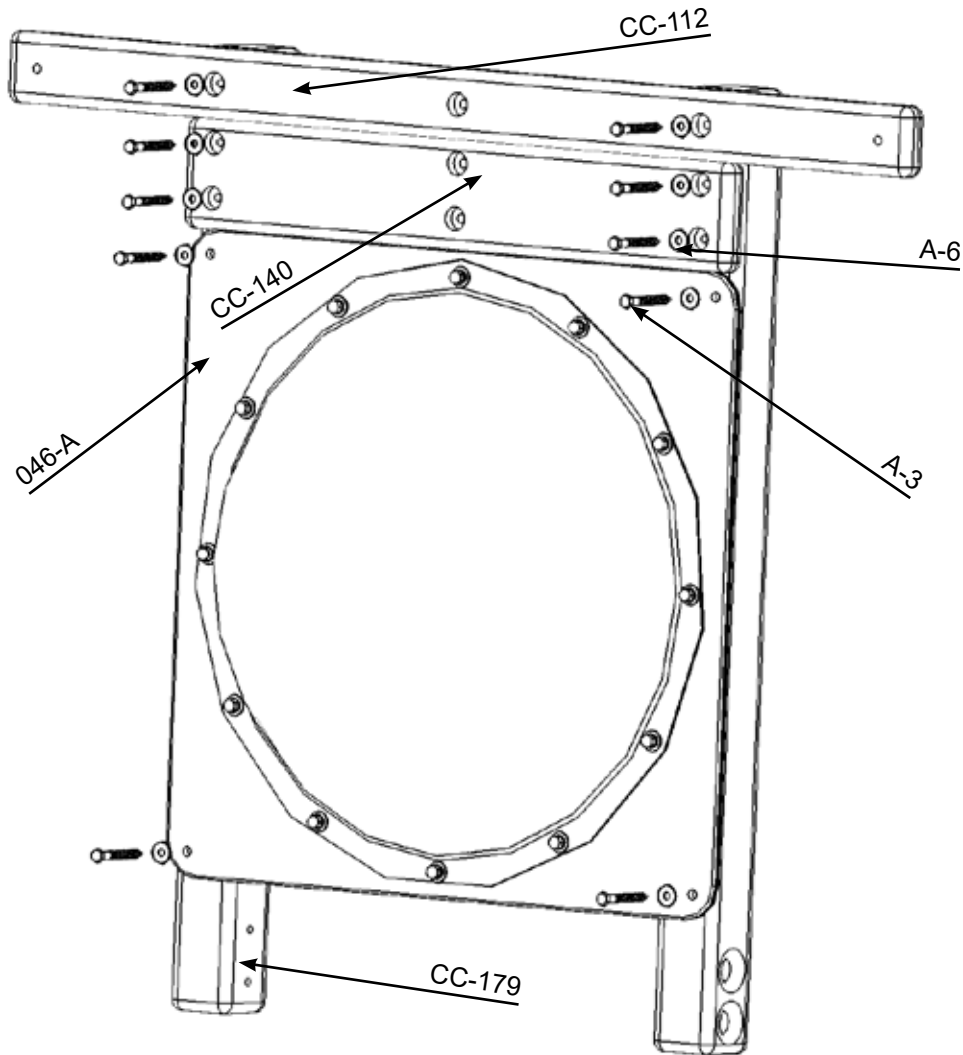
# Extended Loft -Sub Assemblies

## PARTS NEEDED

CC-062- Entrapment Board-	(1)	CC-112- Top Joist-
CC-140- 6-Hole Facia-	(2)	CC-179- Corner Post-
CC-194- Entrapment Block-	(2)	046-A- Bubble Panel-

## HARDWARE NEEDED

(2)	A-6- 3/8" USS Flatwasher-	(24)
(4)	A-3- 3/8" x 3 1/2" Hex Lag Screw-	(20)
(1)	A-5- 3/8" x 7" Hex Lag Screw-	(4)



# Extended Loft Deck Assemblies

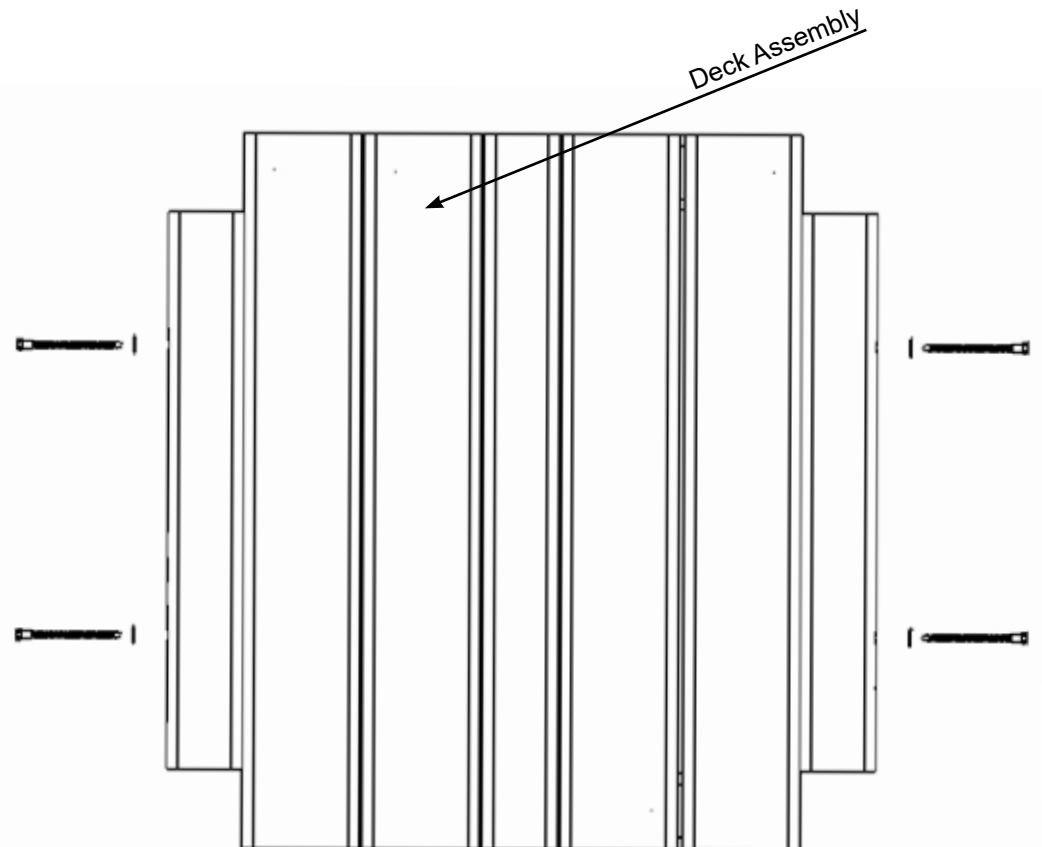
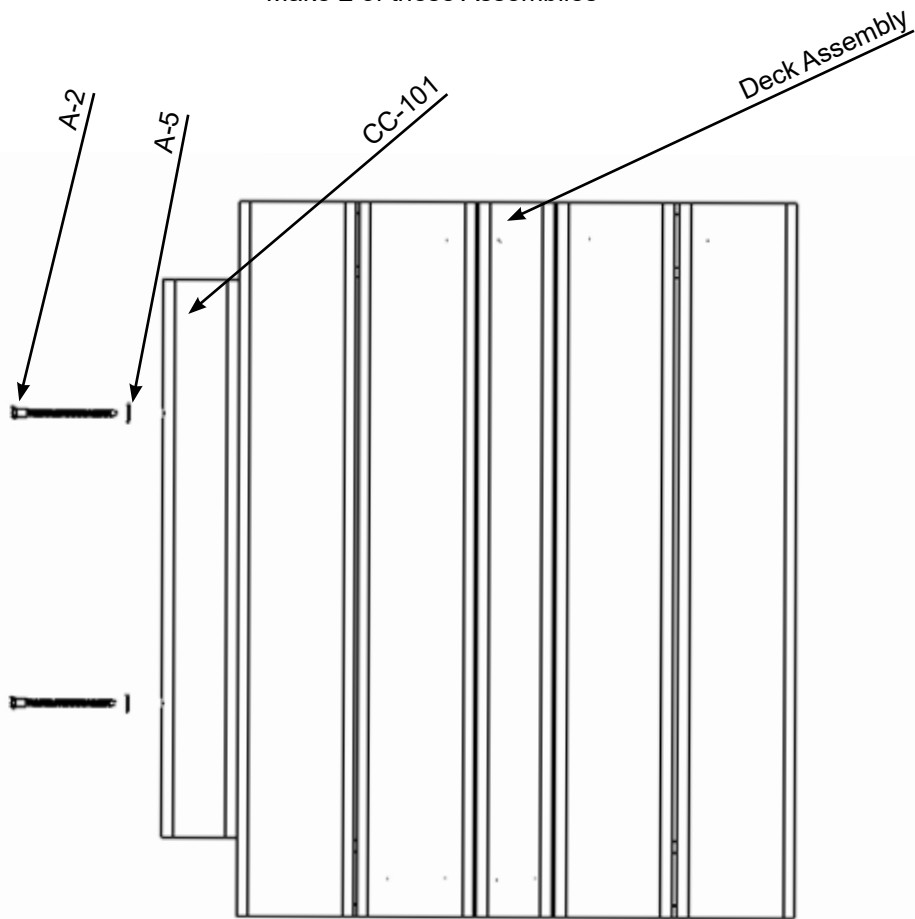
## PARTS NEEDED

Deck Assembly- (3)  
CC-101- Universal Filler- (4)

## HARDWARE NEEDED

A-2- 1/4"x 4 1/2" Hex Lag Screw- (6)  
A-5- 1/4" Uss Flatwasher- (6)

Make 2 of these Assemblies



## 5' & 5.8 Loft

### PARTS NEEDED

CC-101- Universal Filler-	(1)
CC-138- Entrapment Board-	(1)
CC-141- Entrapment Board-	(1)

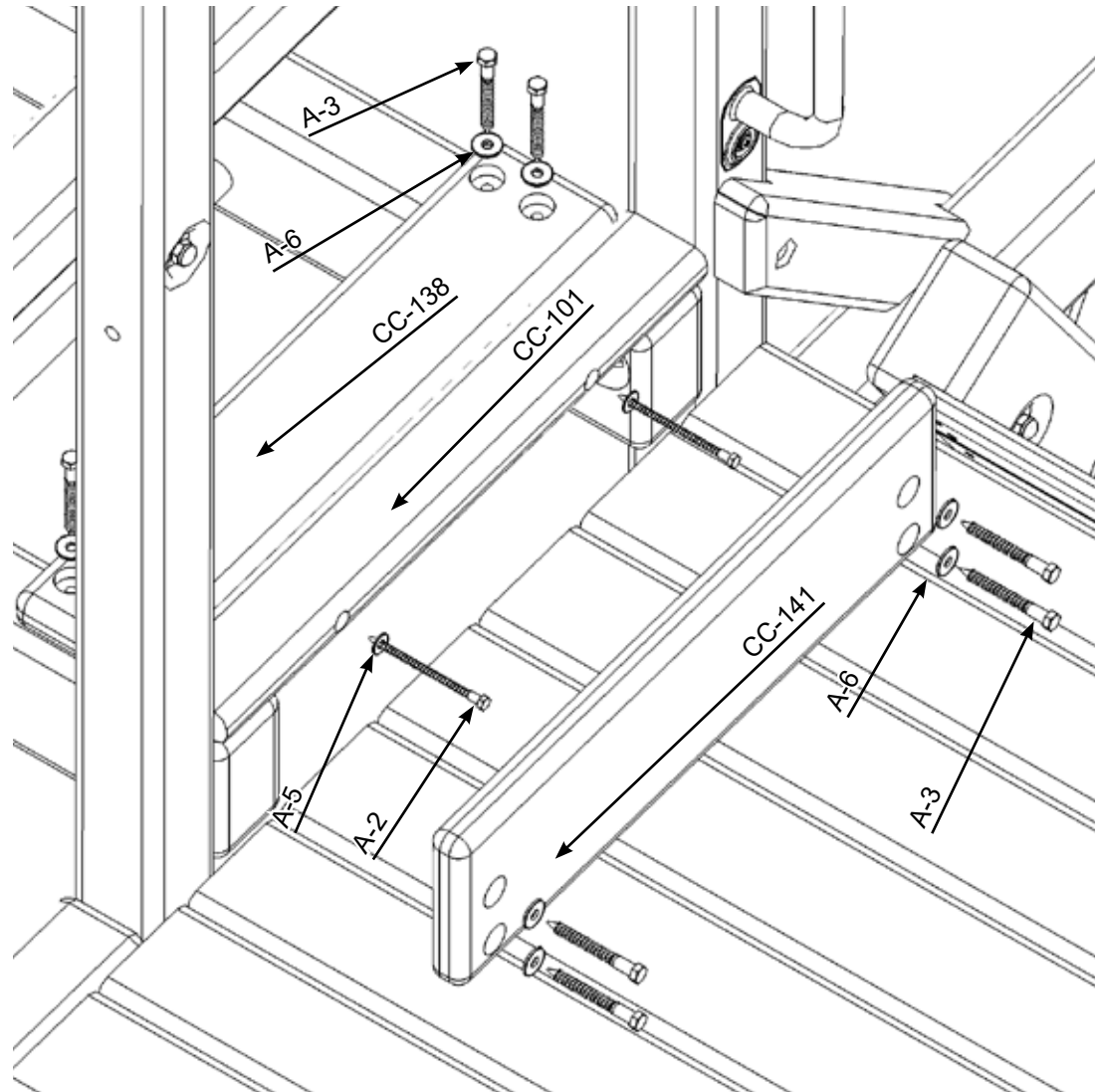
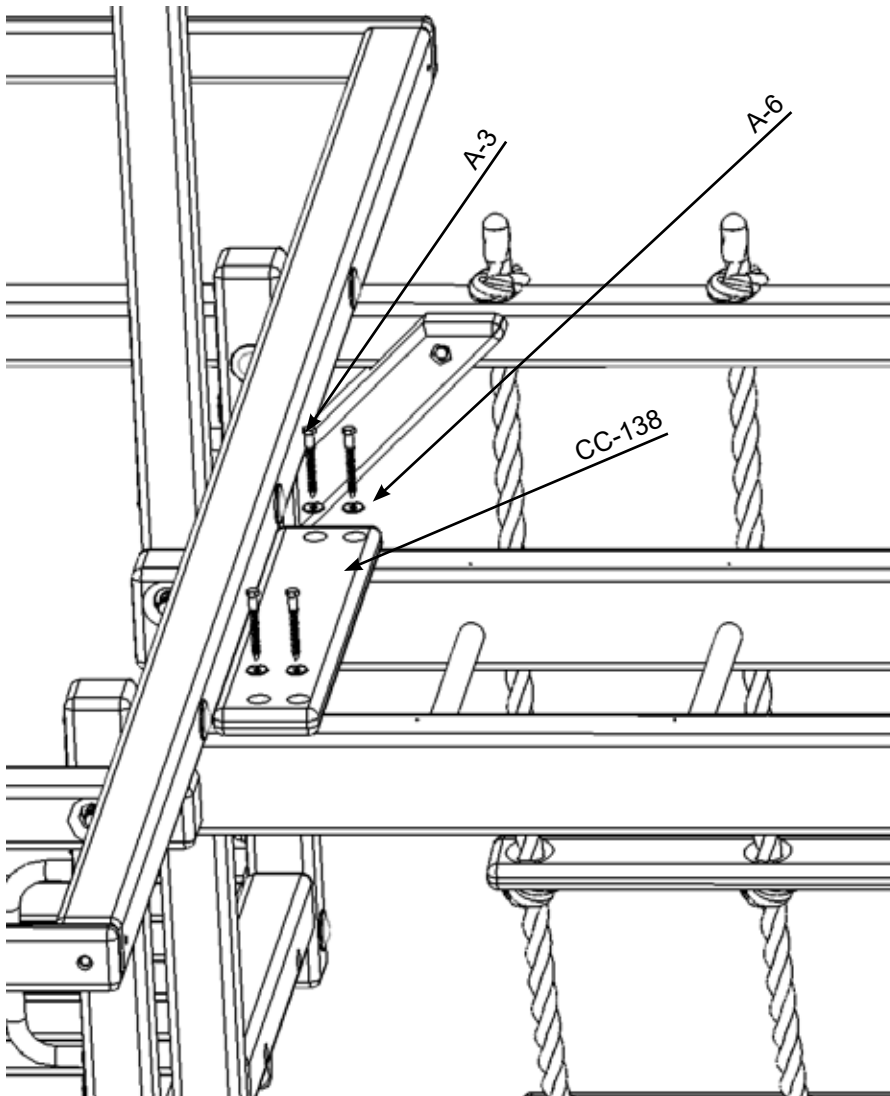
## Playcenter

A-2- 1/4" x 4 1/2" Hex Lag Screw-	(2)
A-5- 1/4" Uss Flatwasher-	(2)

## 6.5 & 7.5 Loft

### HARDWARE NEEDED

A-3- 3/8" x 3 1/2" Hex Lag Screw-	(8)
A-6- 3/8" Uss Flatwasher-	(8)



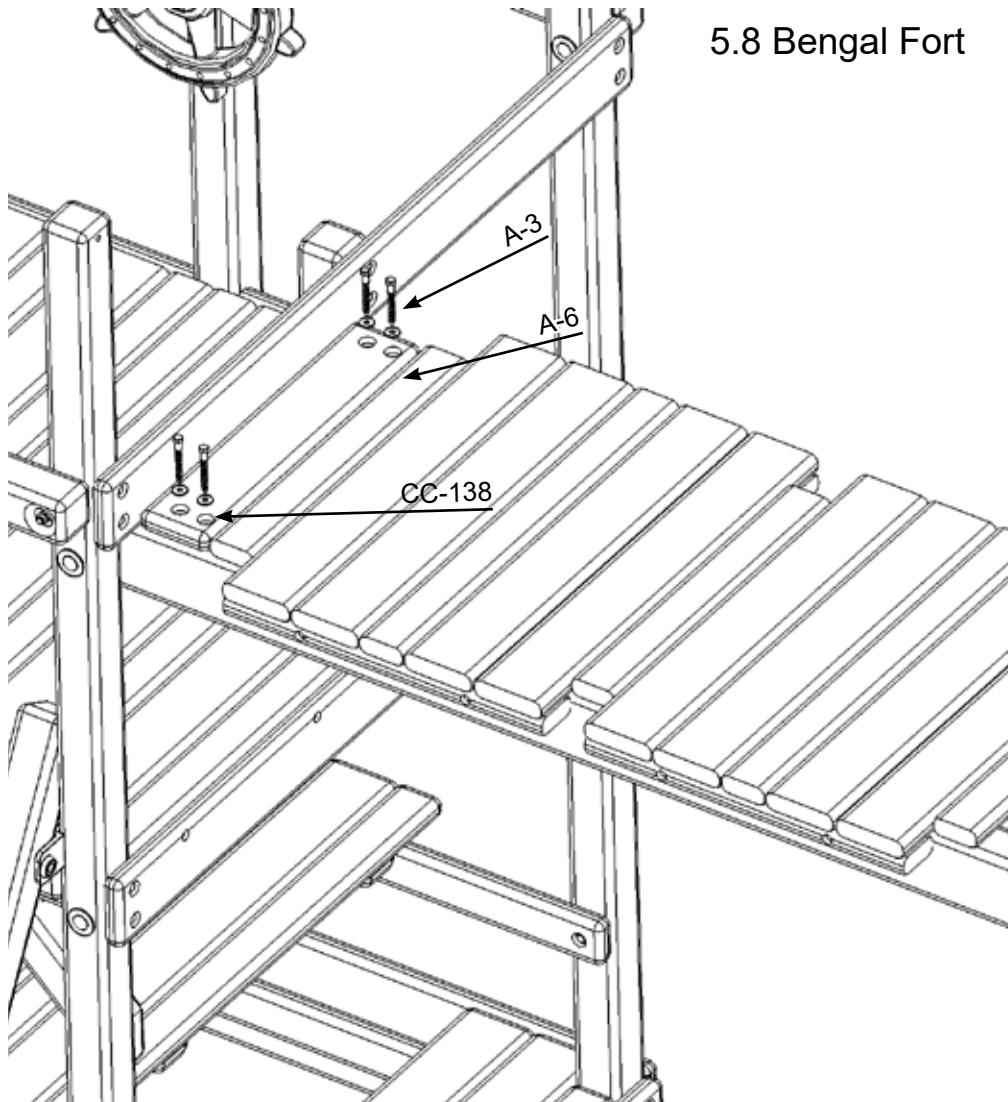
# Fort -Loft Assembly

## PARTS NEEDED

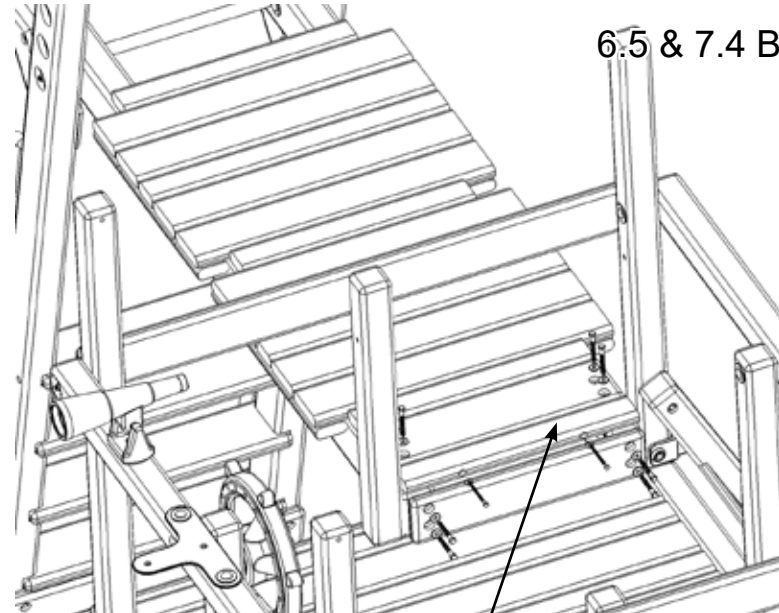
CC-101- Universal Filler-	(1)
CC-138- Entrapment Board-	(1)
CC-141- Entrapment Board-	(1)

## HARDWARE NEEDED

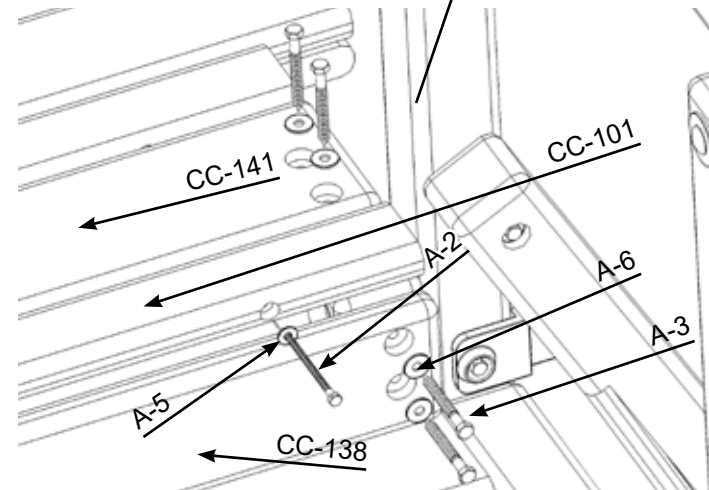
A-2- 1/4" x 4 1/2" Hex Lag Screw-	(2)
A-3- 3/8" x 3 1/2" Hex Lag Screw-	(8)
A-5- 1/4" Uss Flatwasher-	(2)
A-6- 3/8" Uss Flatwasher-	(8)



5.8 Bengal Fort



6.5 & 7.4 Bengal Fort



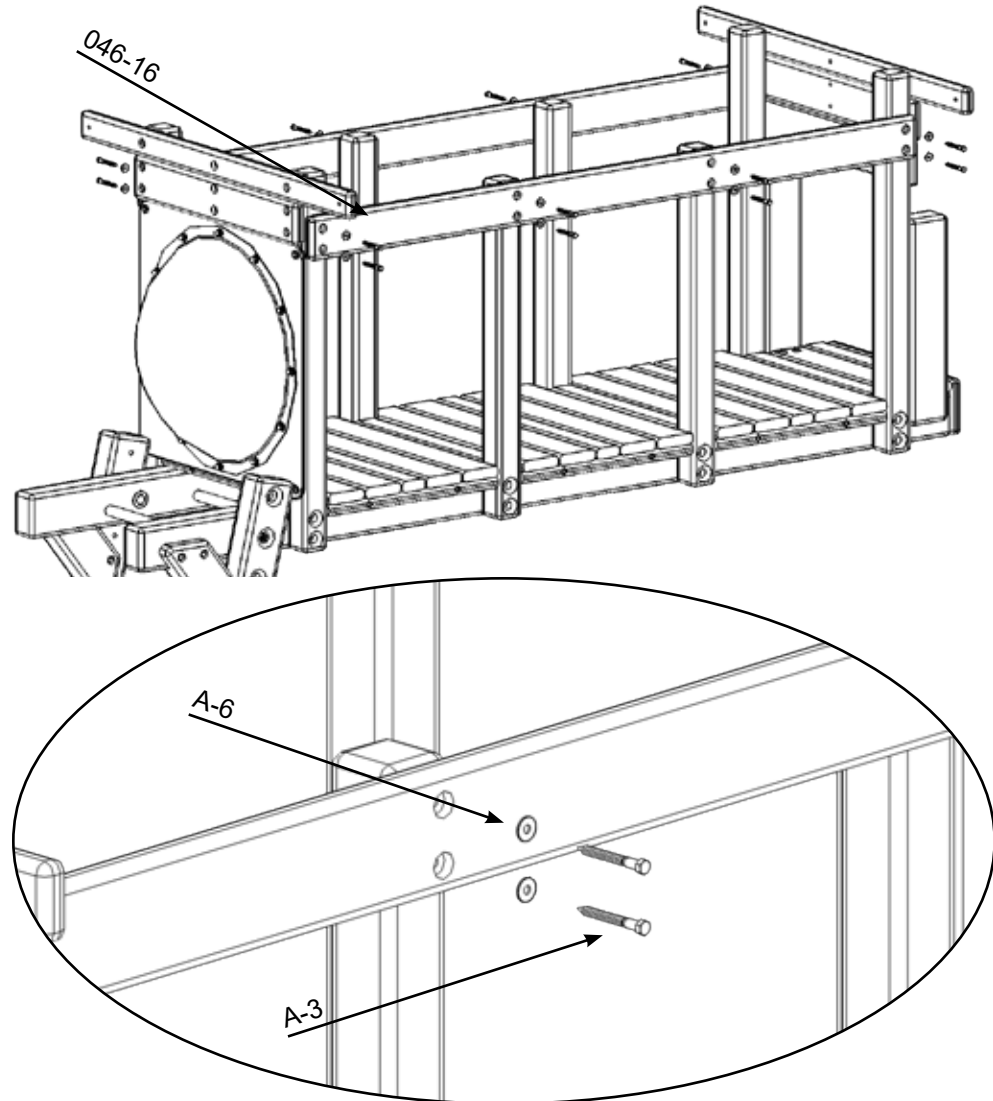
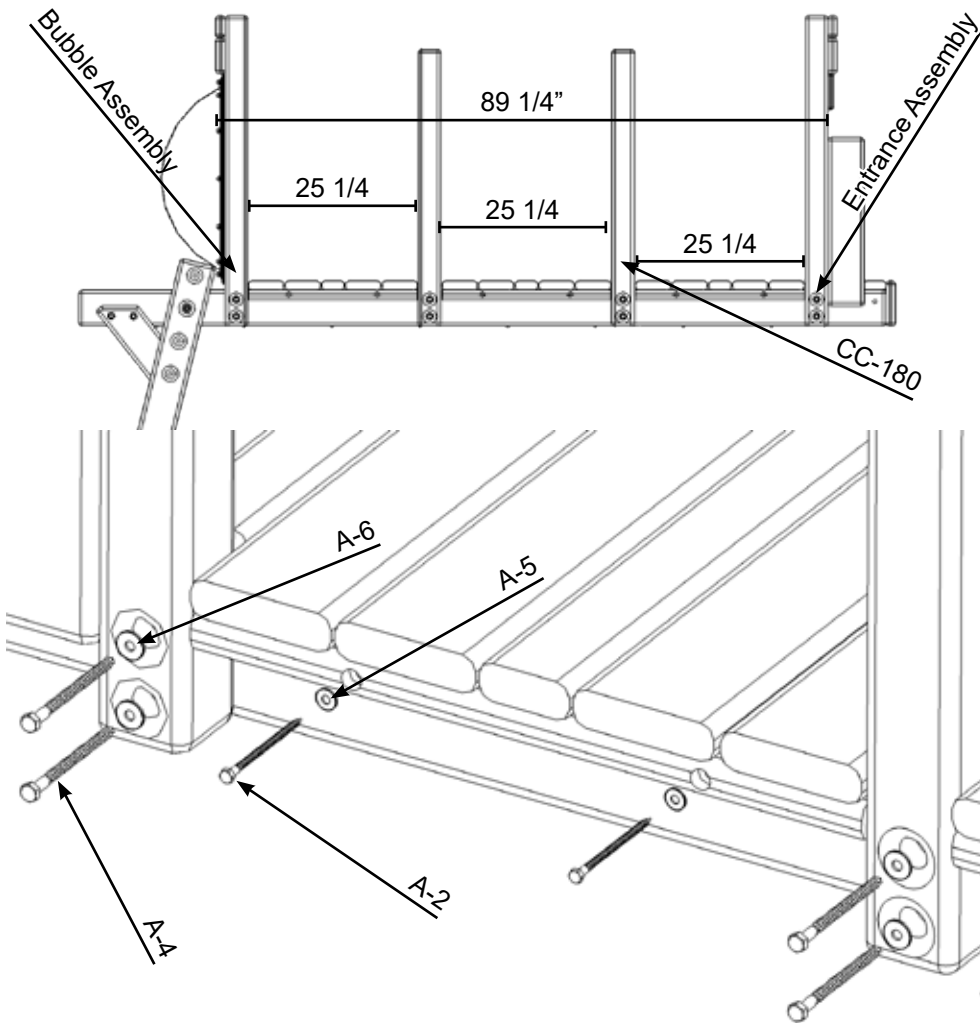
# Extended Loft Assembly

## PARTS NEEDED

Entrance Assembly-	(1)
Bubble Panel Assembly-	(1)
CC-180- Center Upright-	(4)
046-16- 8- Hole Facia-	(2)

W

## HARDWARE NEEDED





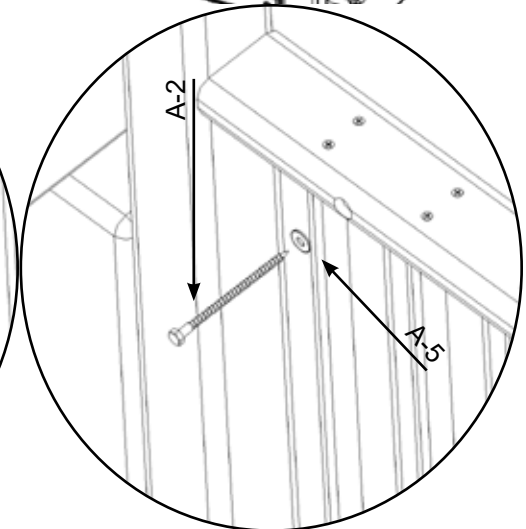
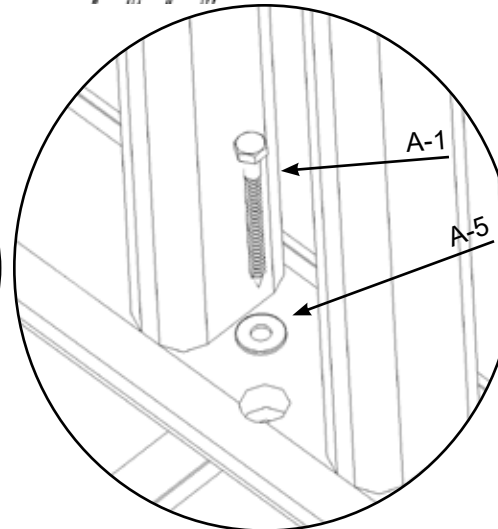
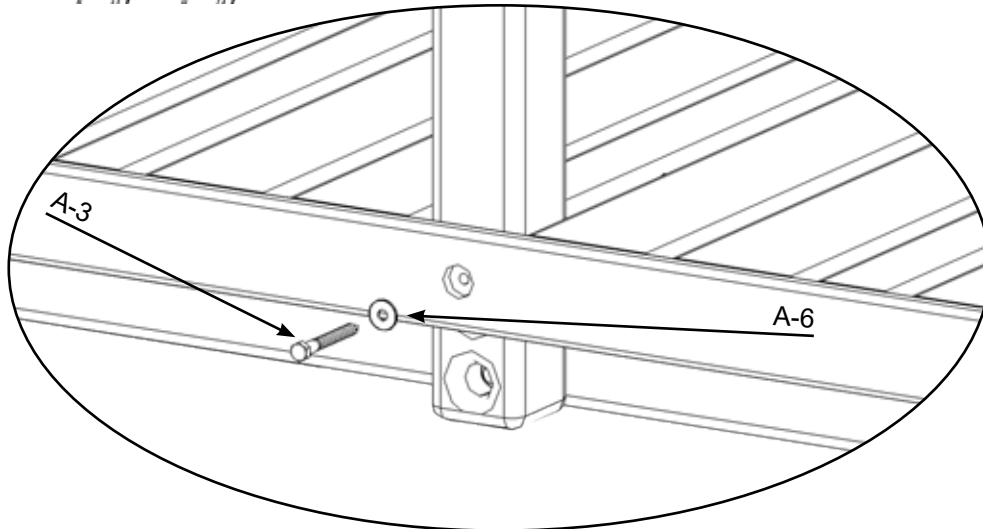
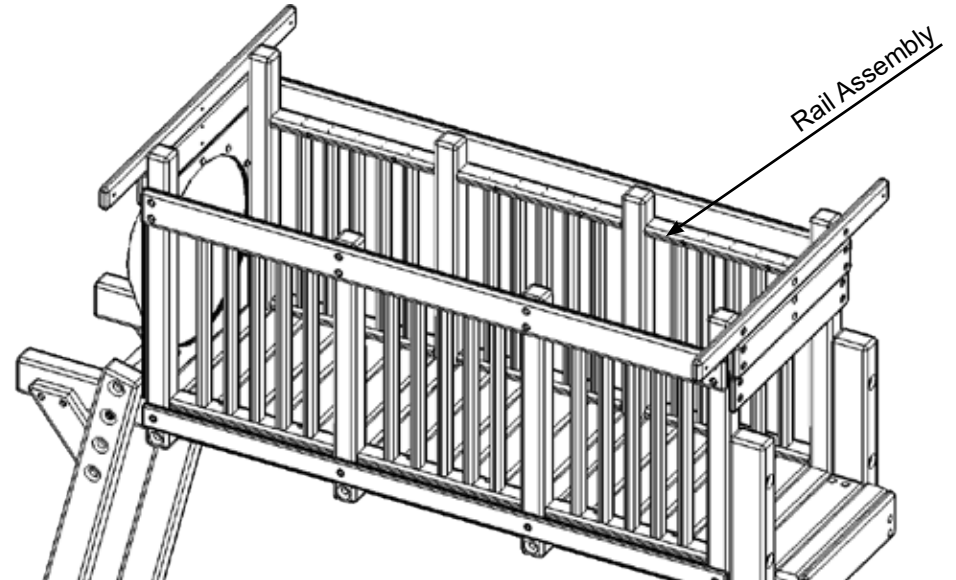
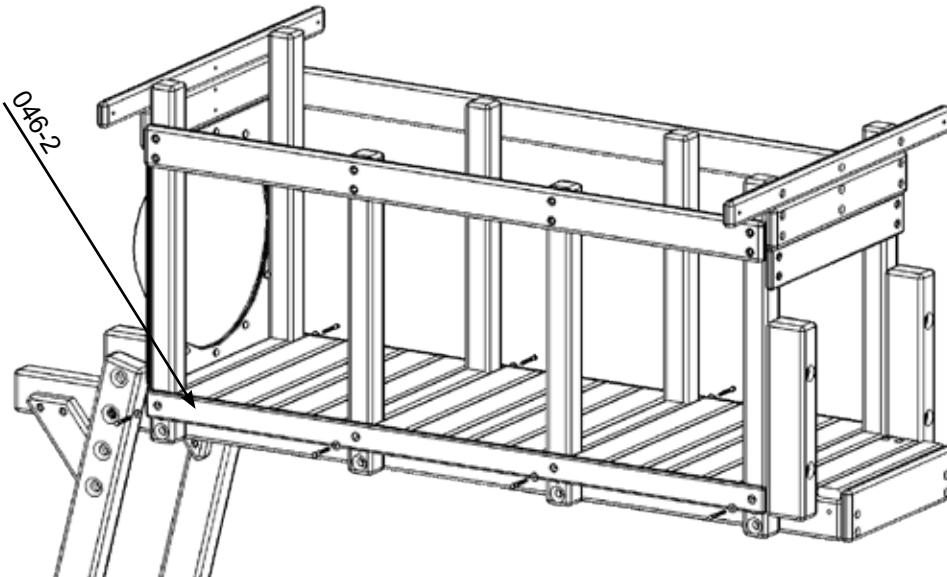
# Extended Loft Assembly

## PARTS NEEDED

046-2- 4- Hole Facia- (2)  
Rail Assembly- (6)

## HARDWARE NEEDED

A-3- 3/8" x 3 1/2" Hex Lag Screw- (8)  
A-6- 3/8" USS Flatwasher- (8)  
A-1- 1/4" x 3" Hex Lag Screw- (12)  
A-5- 1/4" USS Flatwasher- (24)  
A-2- 1/4" x 4 1/2" Hex Lag Screw- (12)



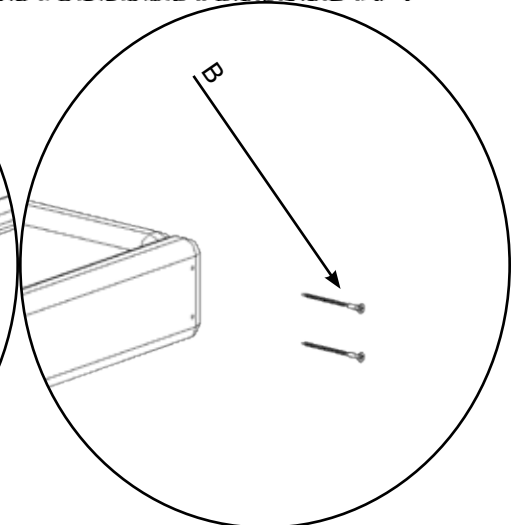
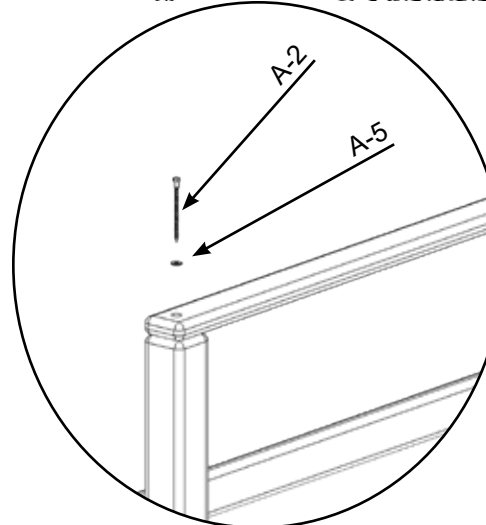
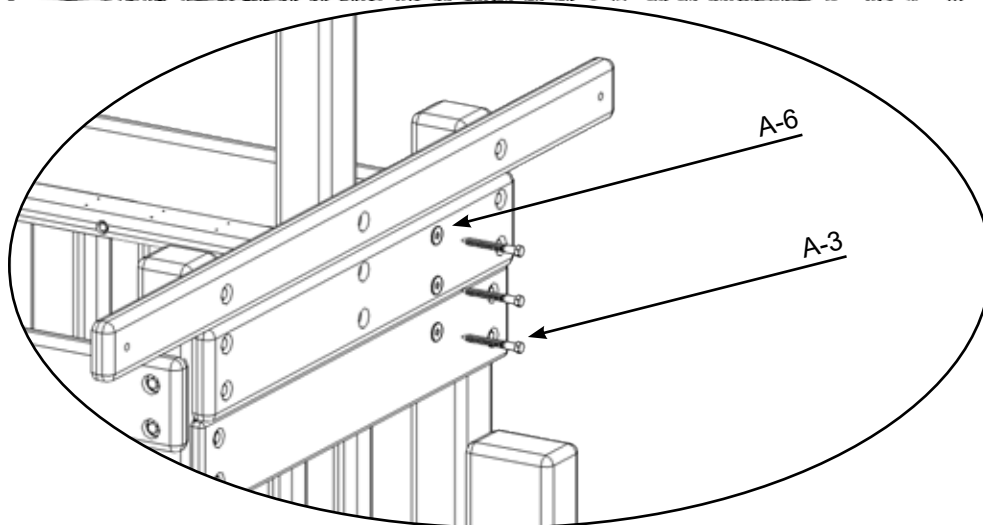
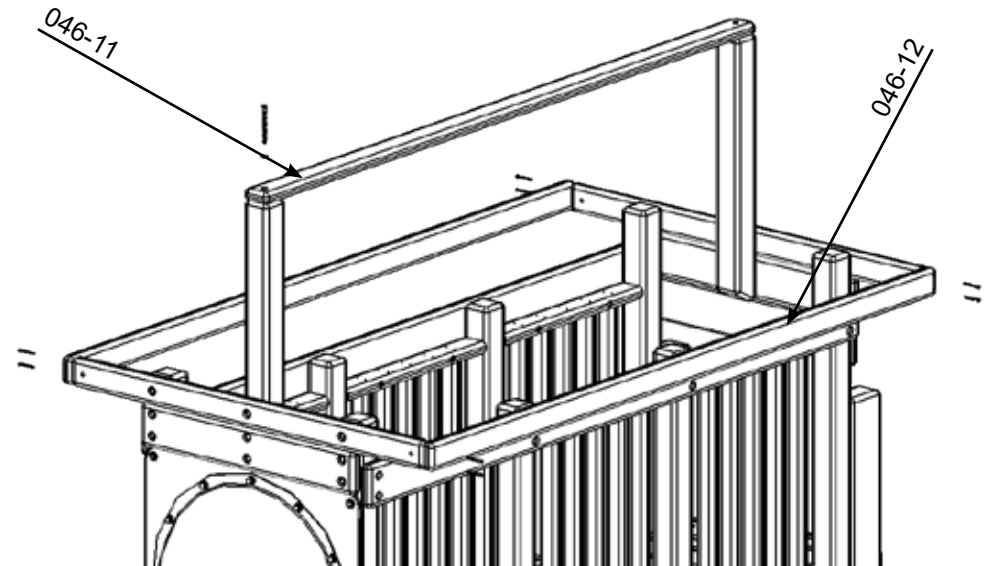
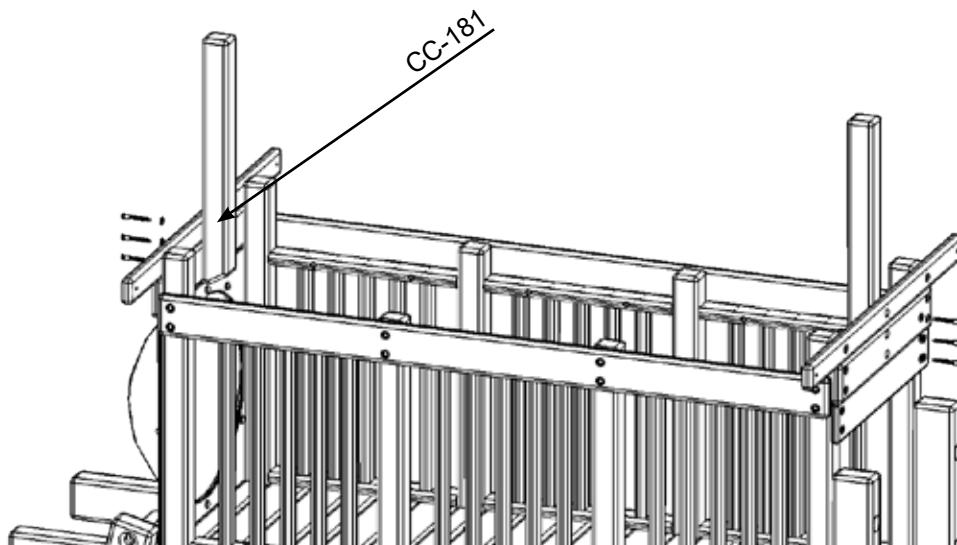
# Extended Loft Tarp Assembly

## PARTS NEEDED

CC-181- Tarp Upright-	(2)
046-11- Tarp Center-	(1)
046-12- Tarp Side Facia-	(2)

## HARDWARE NEEDED

A-3- 3/8" x 3 1/2" Hex Lag Screw-	(6)
A-6- 3/8" USS Flatwasher-	(6)
A-2- 1/4" x 4 1/2" Hex Lag Screw-	(2)
A-5- 1/4" USS Flatwasher-	(2)
B- 2 1/2" Coated Deck Screw-	(8)



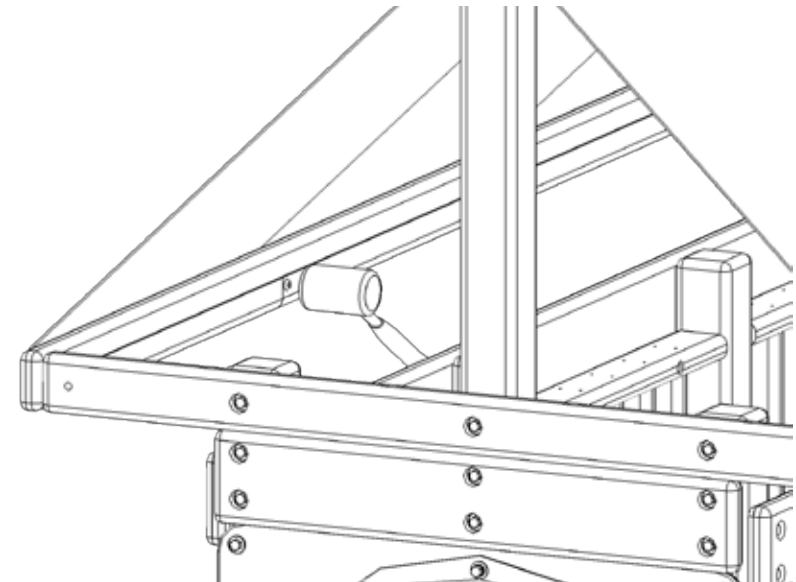
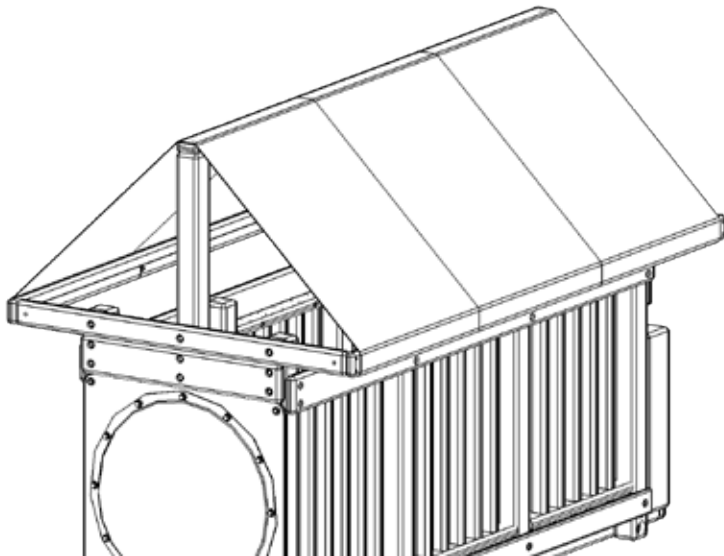
# Extended Loft Tarp Assembly

## PARTS NEEDED

Tarp with Hardware

## HARDWARE NEEDED

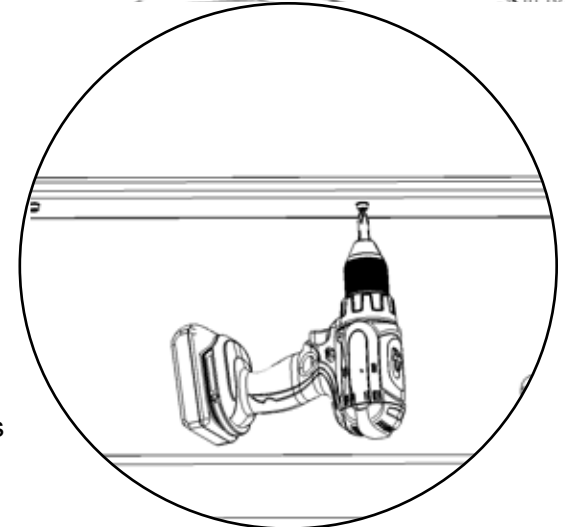
Hardware with Tarp



(Figure A.)- Take one corner of the VINYL TARP and place it flush in the corner. Tap the snap with a blunt object, leaving an indentation of the snap in the wood. Repeat this process until all the snaps have been indented in the wood on both sides of the Playcenter.

(Figure B.)- Using the indentions you just made with the snaps, take the 5/8" PHILLIPS SCREW SNAPS and drill one into each indentation.

(Figure C.)- Take the corner of the VINYL TARP and start placing the snaps on the PHILLIPS SCREW SNAPS. Fold the VINYL TARP over the top of the UNIVERSAL TARP BOARD. Pull tight and place the snaps on the PHILLIPS SCREW SNAPS.



# Wood Roof Assembly

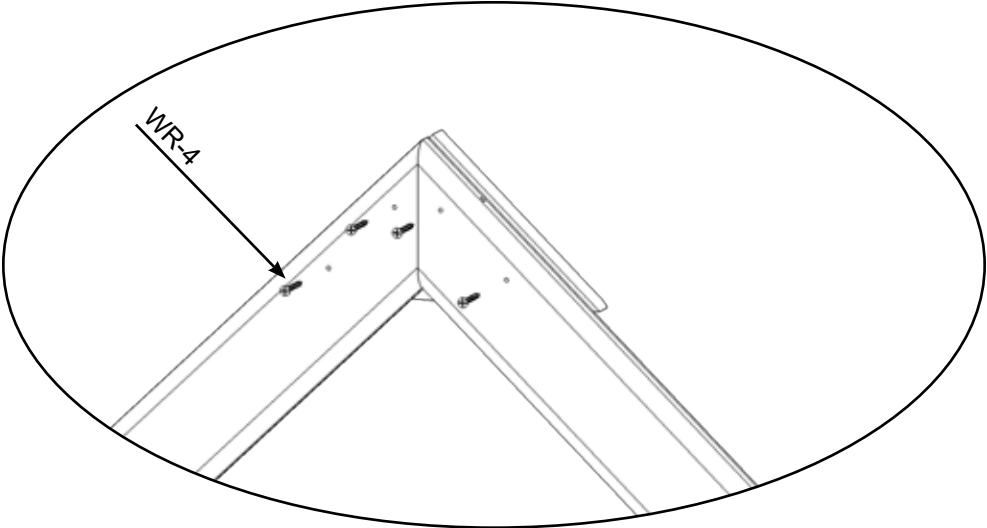
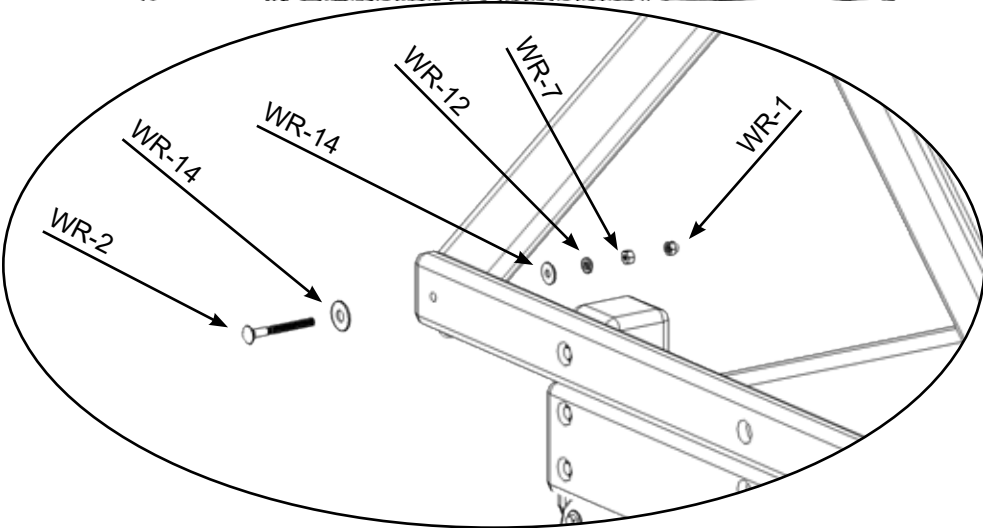
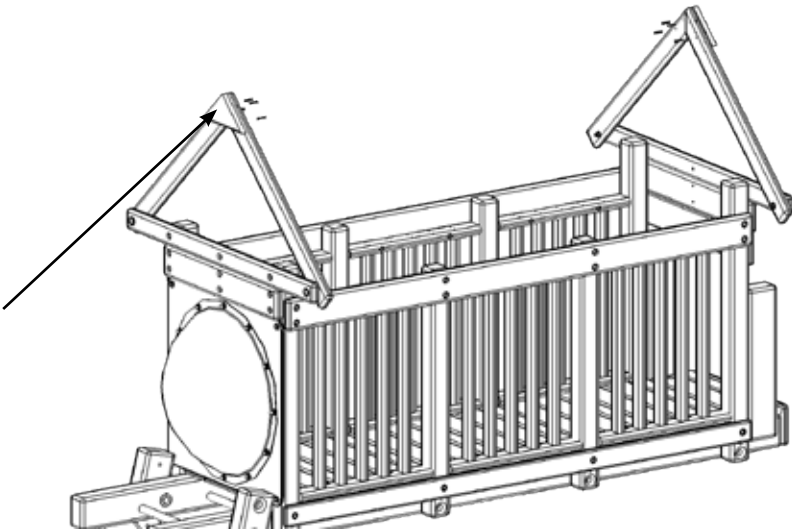
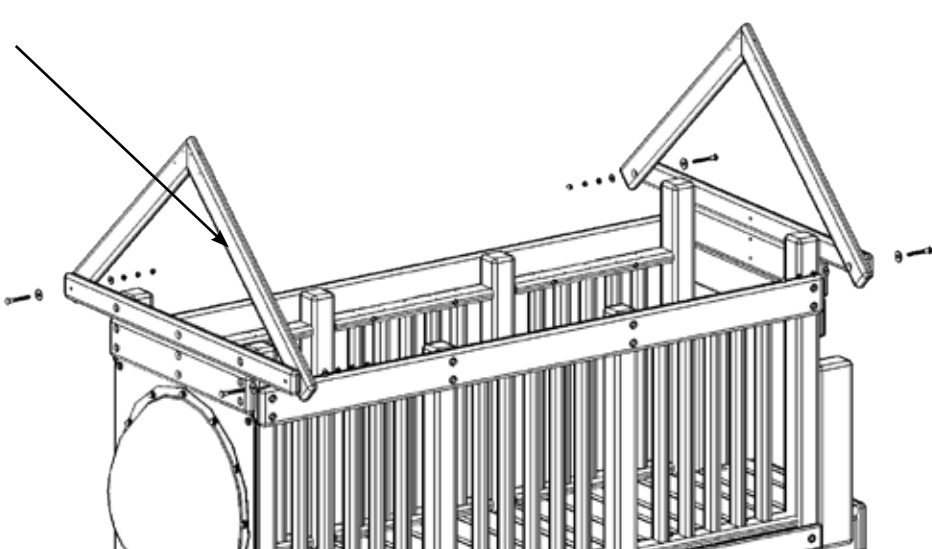
## PARTS NEEDED

CC-110- Wood Roof Support- (4)  
CC-055- Peak Support- (2)

WR-2- 3/8" x 3" Carriage Bolt- (4)  
WR-14- 3/8" USS Flatwasher- (4)  
WR-7- 3/8" Hex Nut- (4)  
WR-4- 1 5/8" Coated Deck Screw- (8)

## HARDWARE NEEDED

WR-15- 1/2" USS Flatwasher- (4)  
WR-12- 1/2" Split Lockwasher- (4)  
WR-1- 3/8" Acorn Nut Plated- (4)



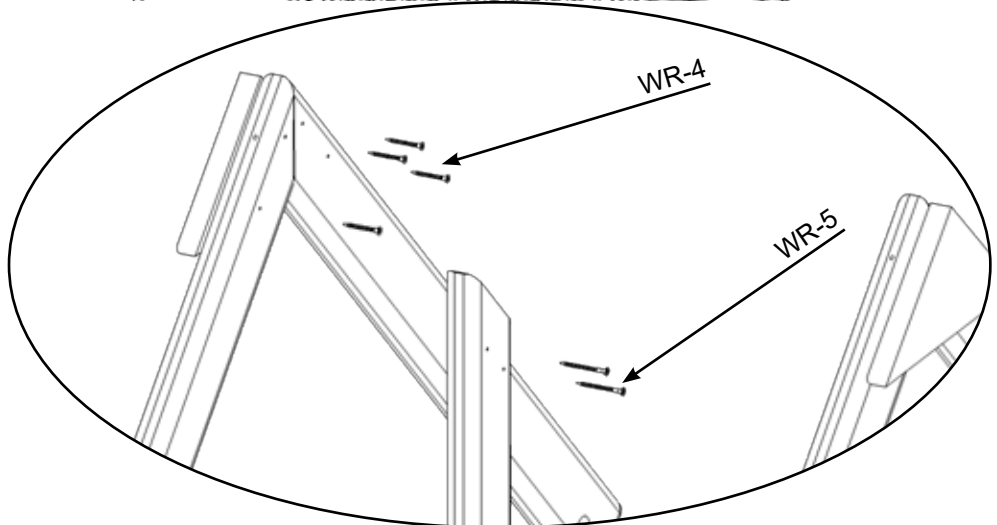
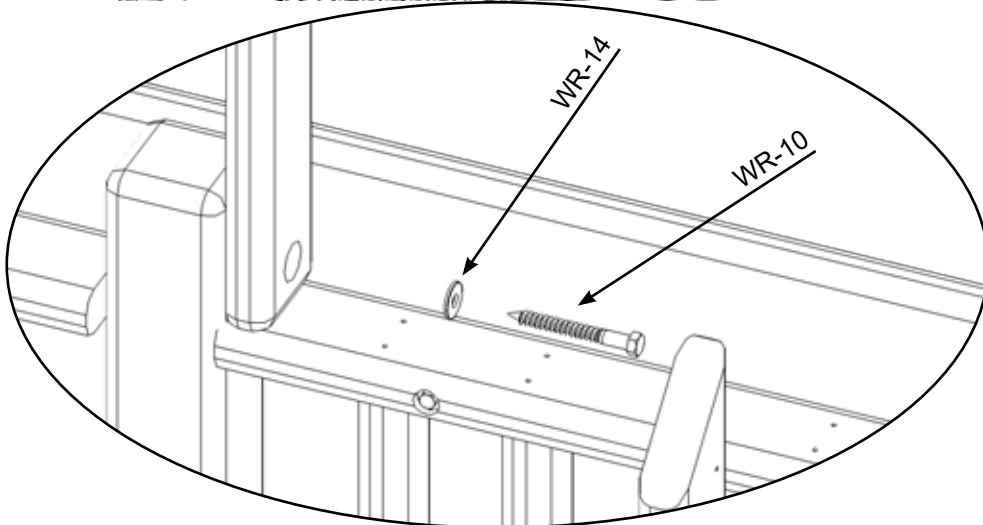
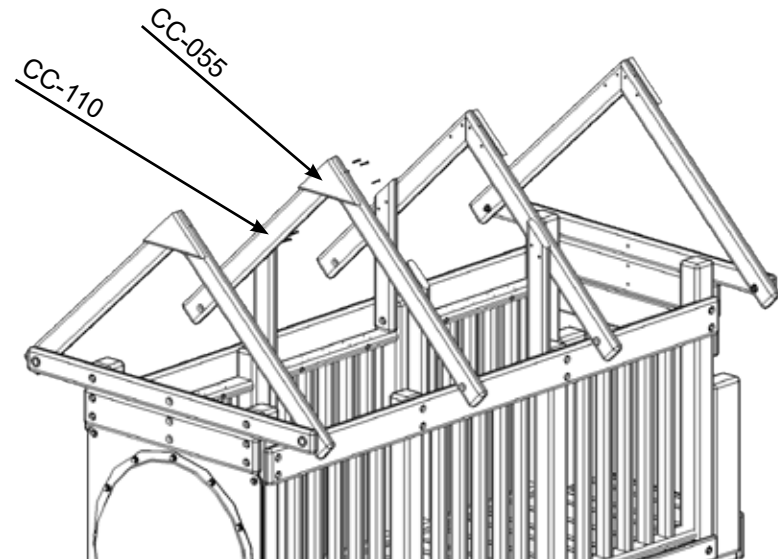
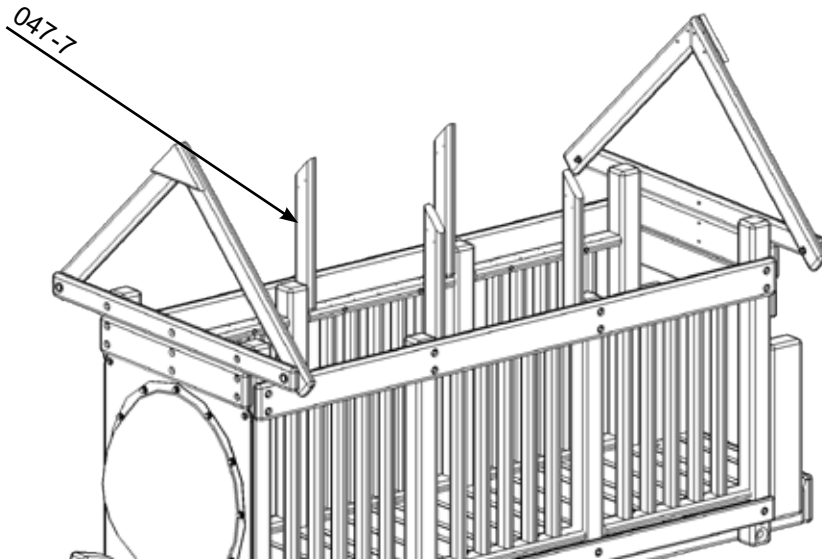
# Wood Roof Assembly

## PARTS NEEDED

047-7- Center Wood Roof Support- (4)  
CC-110- Wood Roof Support- (4)  
CC-055- Peak Support- (2)

## HARDWARE NEEDED

WR-14- 3/8" USS Flatwasher- (4)  
WR-10- 3/8" USS Flatwasher- (4)  
WR-4- 1 5/8" Coated Deck Screw- (8)  
WR-5- 2 1/2" Coated Deck Screw- (8)



# Wood Roof Assembly

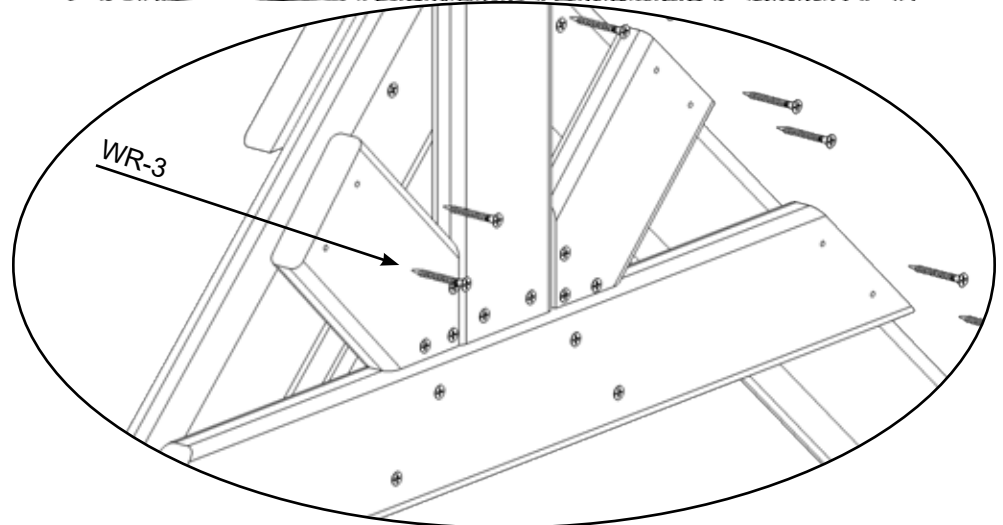
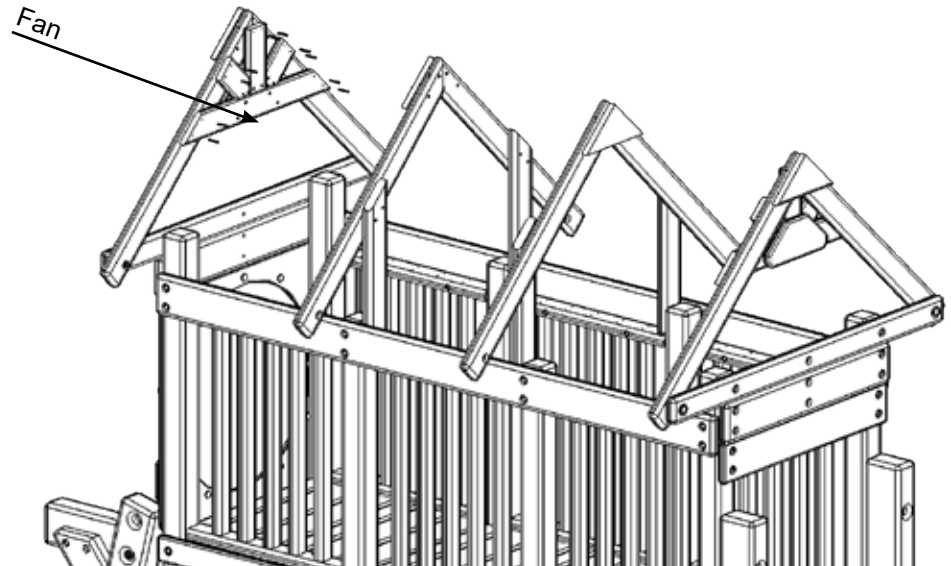
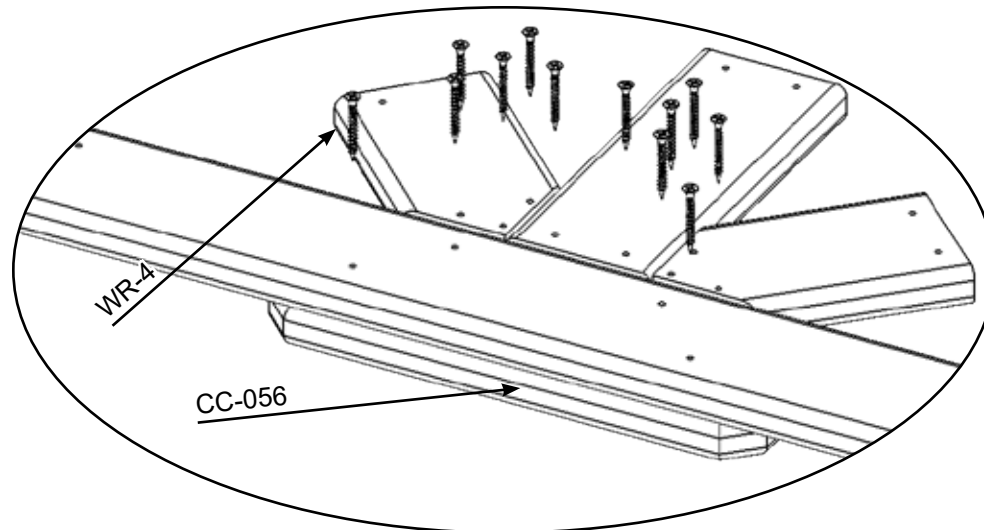
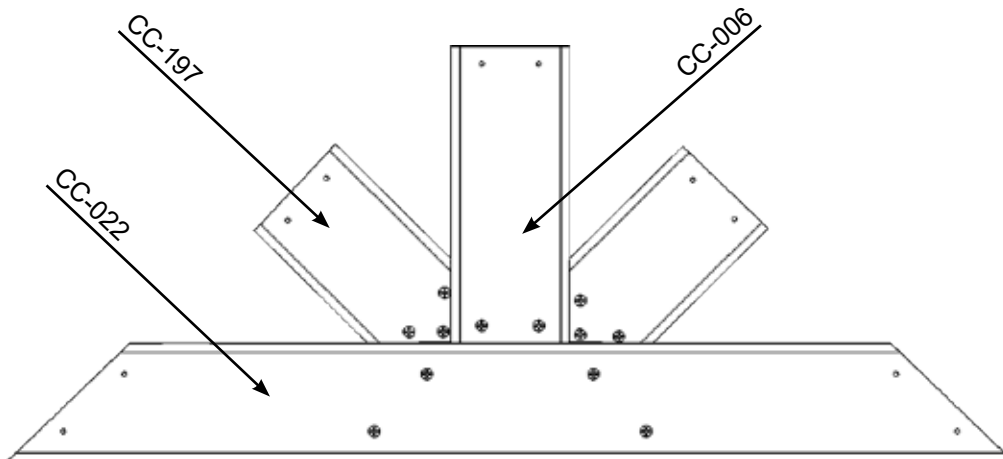
## PARTS NEEDED

CC-197- Short Fan Board-	(4)
CC-006- Center Fan Board-	(2)
CC-022- Bottom Fan Board-	(2)
CC-056- Fan Cap-	(2)

## HARDWARE NEEDED

WR-4- 1 5/8" Coated Deck Screw-	(24)
WR-3- 1 1/2" Coated Deck Screw-	(20)

Make 2 Wood Roof Fans



# Wood Roof Assembly

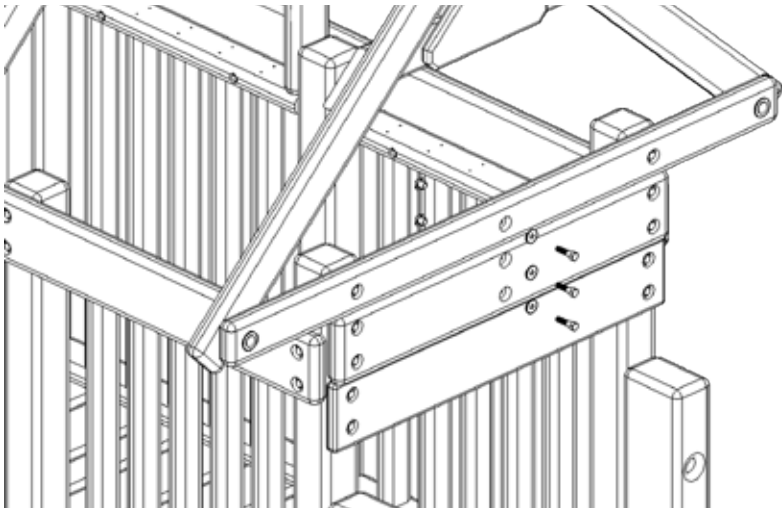
## PARTS NEEDED

047-8- Wood Roof Board- (18)

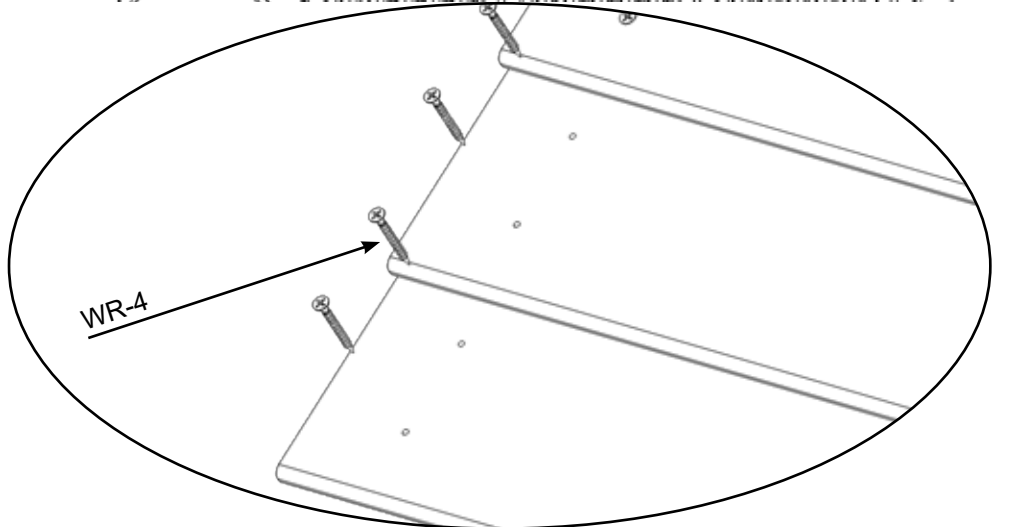
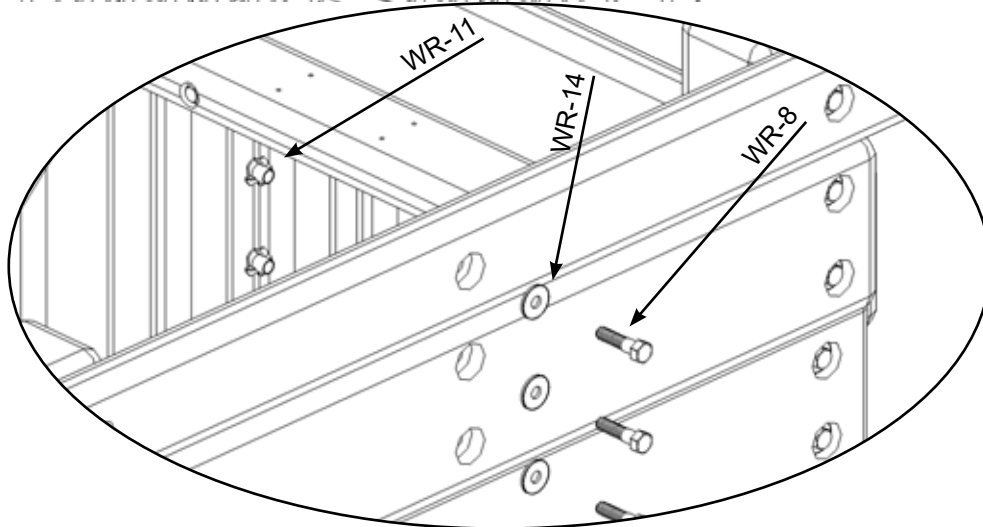
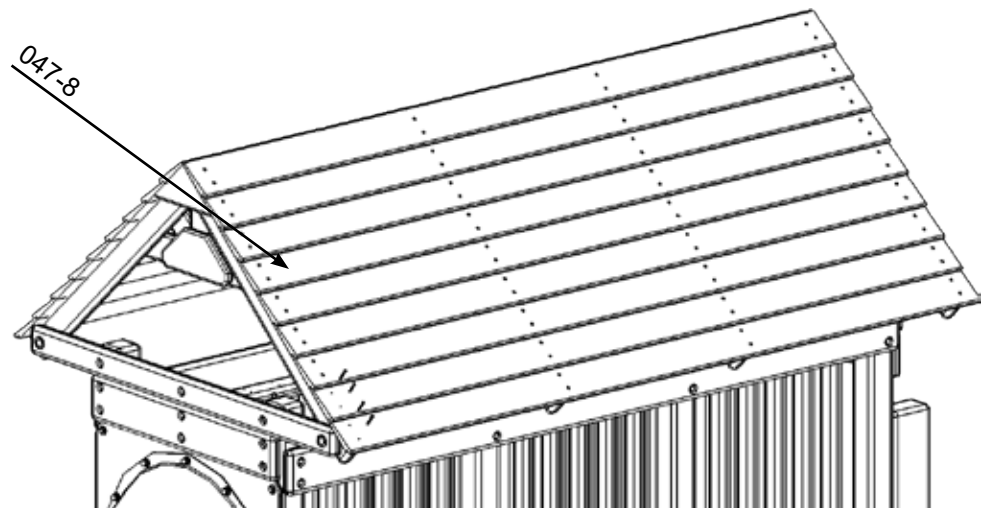
## HARDWARE NEEDED

WR-11- 3/8" T-Nut- (6)  
WR-14- 3/8" USS Flatwasher- (6)  
WR-8- 3/8" x 1/2" Hex Nut- (6)  
WR-4- 1 5/8" Coated Deck Screw- (144)

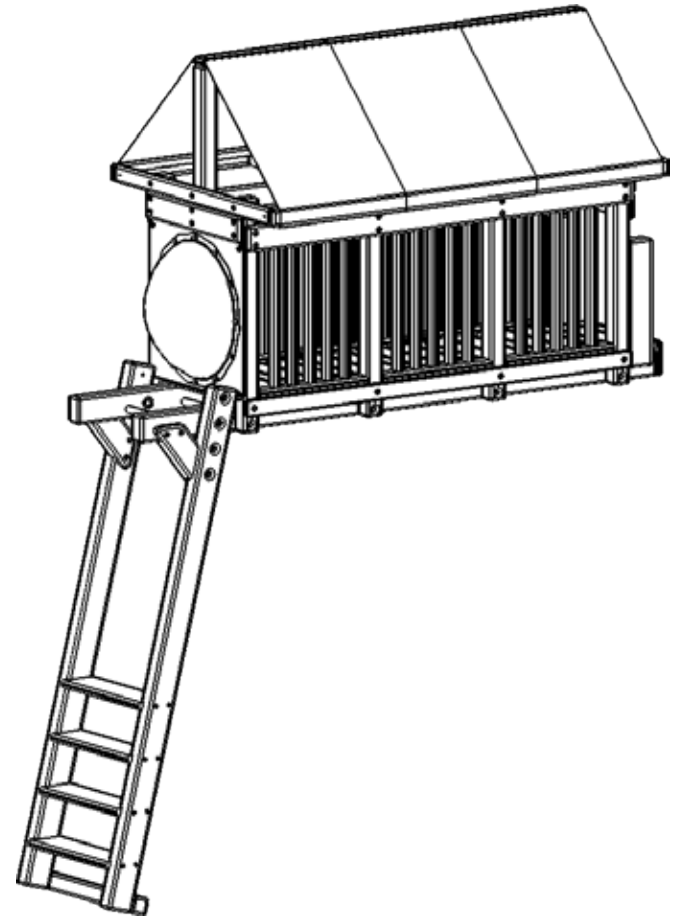
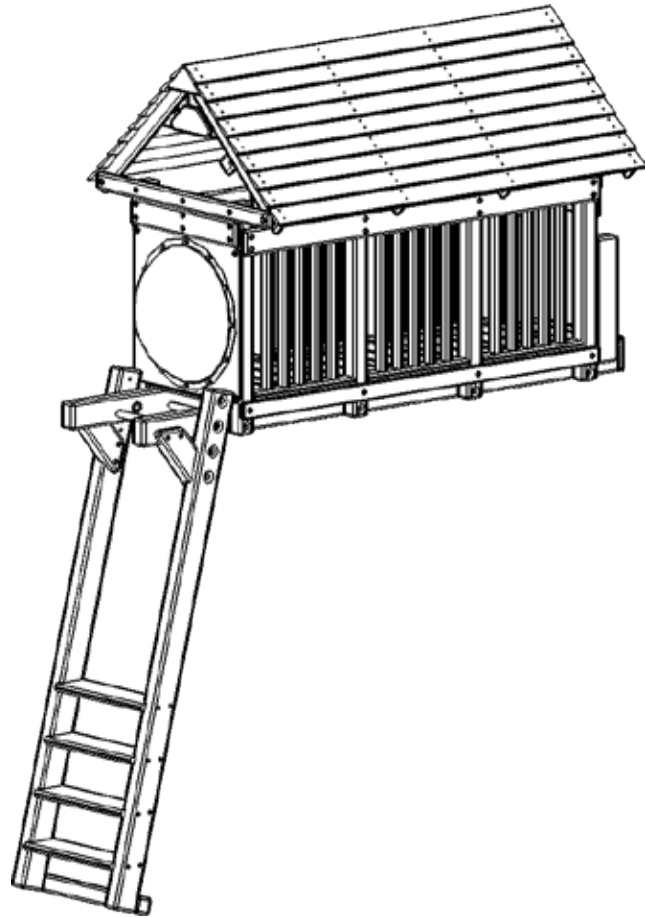
Repeat for Both Sides of Loft



Repeat for Both Sides of Loft

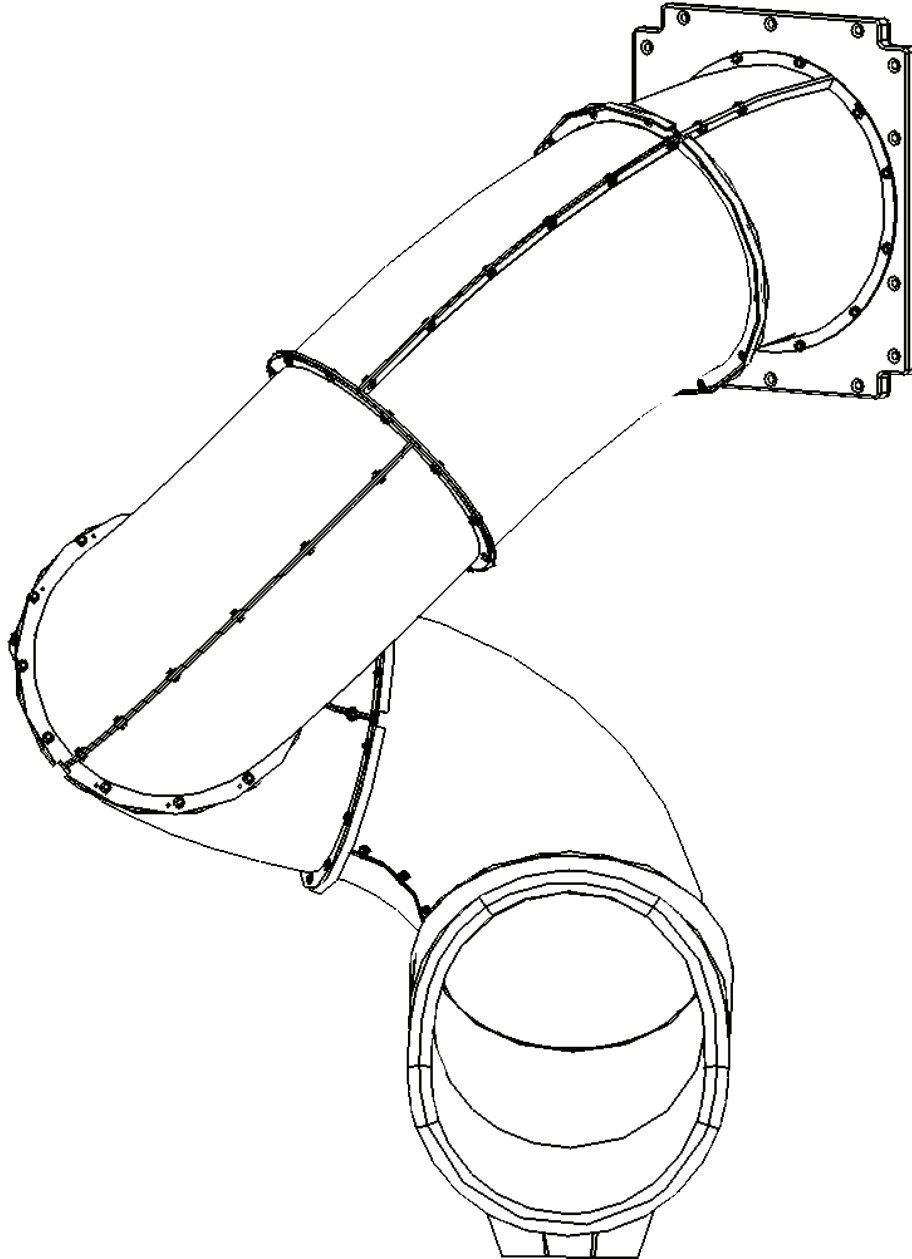






Extended Loft

# Super 360 Spireal Slide Installation Manual



Version 1:19



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## Sections

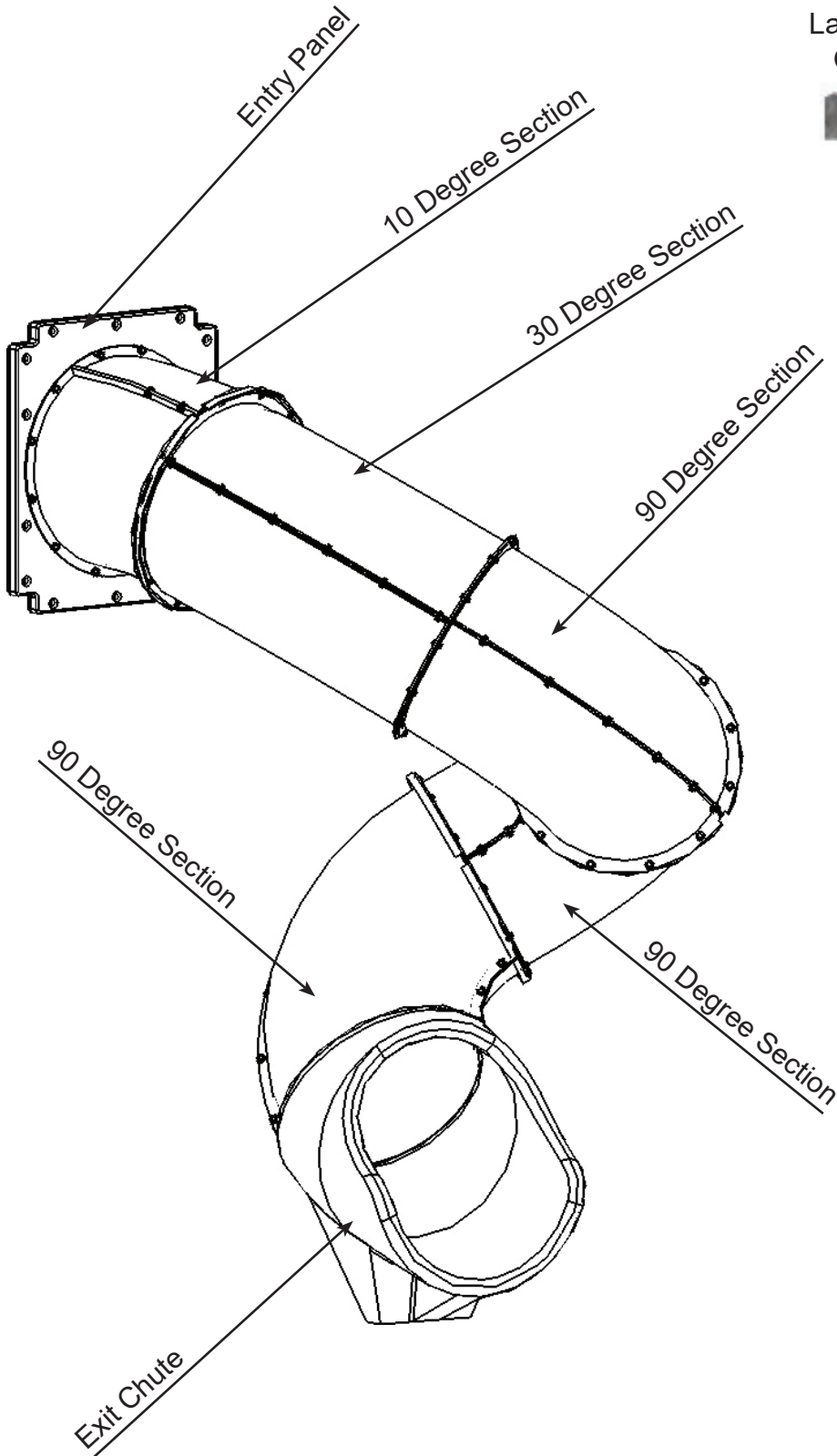
Page 1: Part List

Page 2: 5.8' Deck Height Assembly

Page 3: 5' & 7' Deck Height Assembly

Page 4: 6.5' Deck Height Assembly

# PARTS



3/8" x 5"  
Lag Screw  
QTY. 2



5/16" x 1 1/2"  
Lag Screw  
QTY. 26



5/16" x 1"  
Hex Bolt  
QTY. 99



5/16"-18  
Lock Nut  
QTY. 97



5/16"  
Flatwasher  
QTY. 222

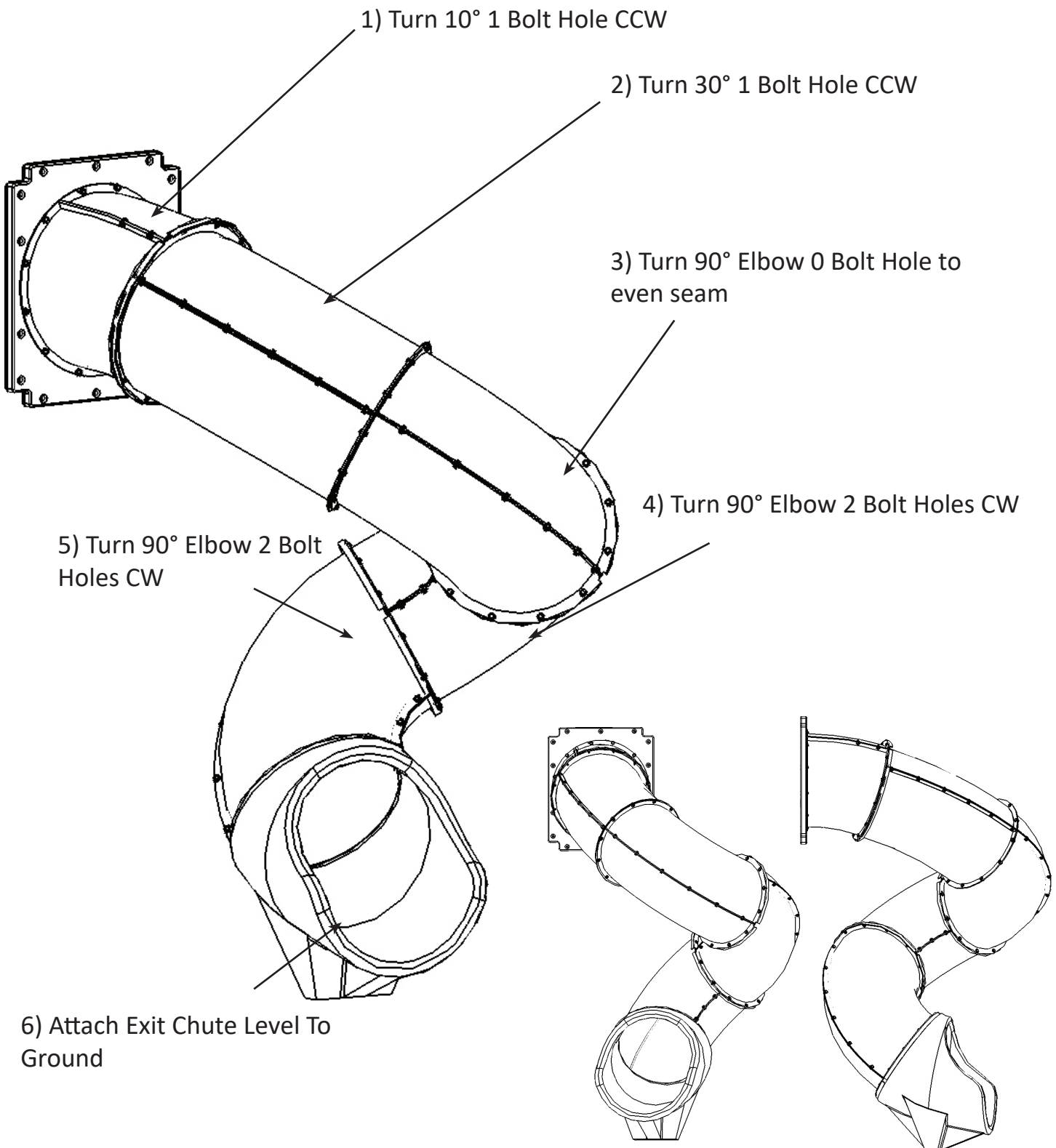


3/8"  
Flatwasher  
QTY. 2



# Quick Reference Guide #1

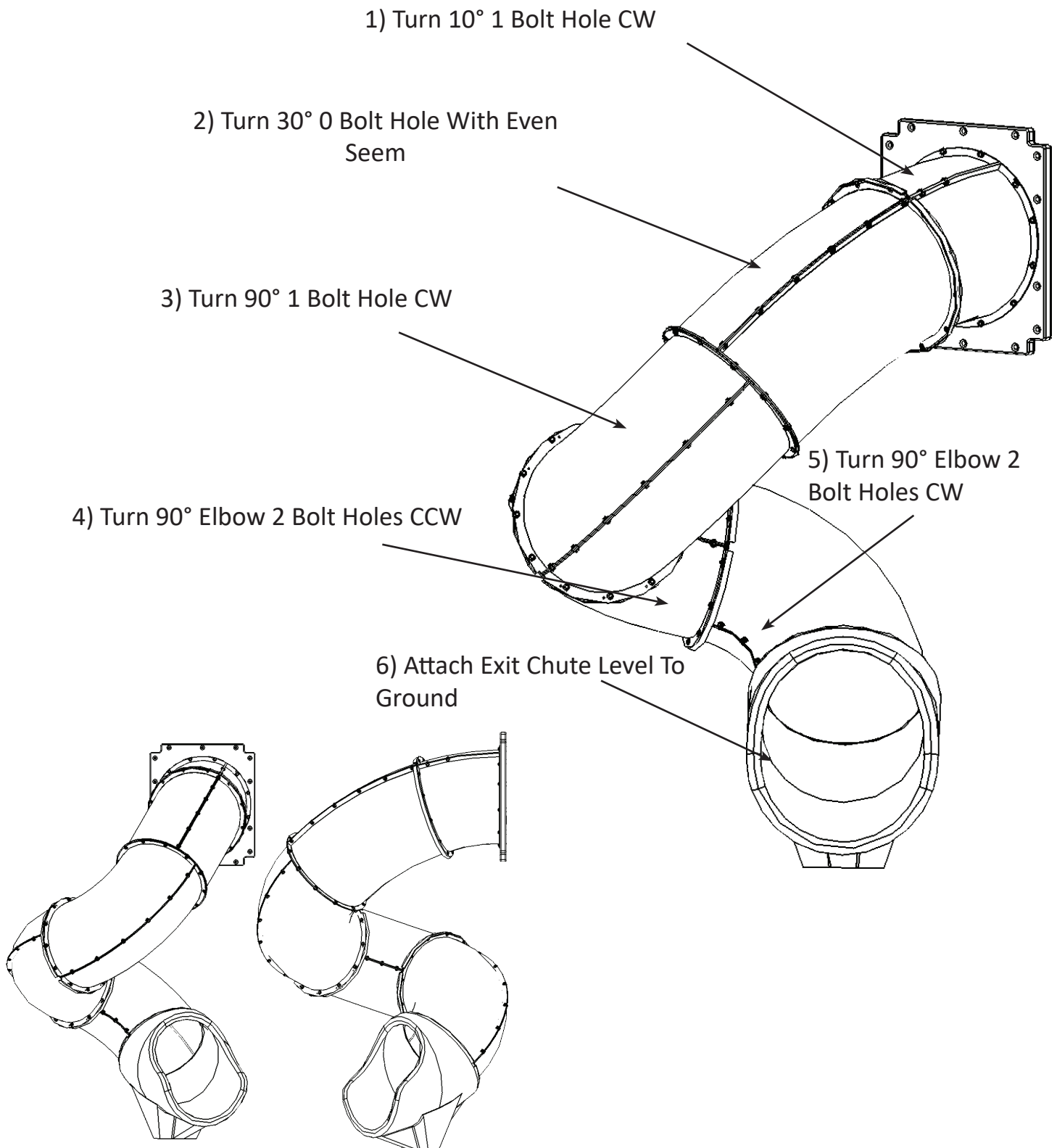
## For 5.8' Deck Height



**NOTE:** To spiral in the opposite direction, apply CW turns instead of CCW and vice versa. Turns may need to be adjusted depending on the level of the land.

## Quick Reference Guide #2

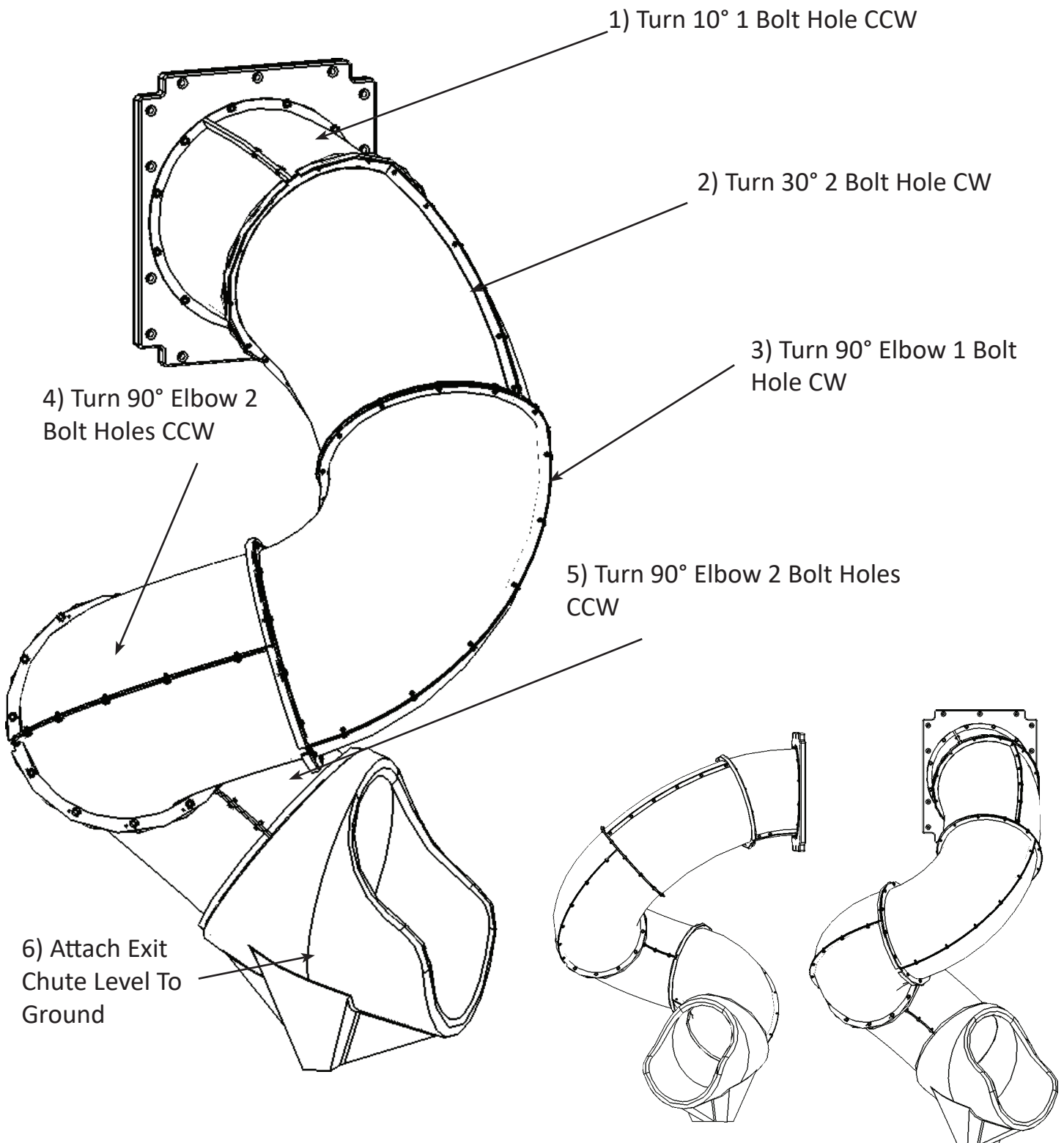
### For 5' & 7' Deck Heights



**NOTE:** To spiral in the opposite direction, apply CW turns instead of CCW and vice versa. Turns may need to be adjusted depending on the level of the land.

# Quick Reference Guide #3

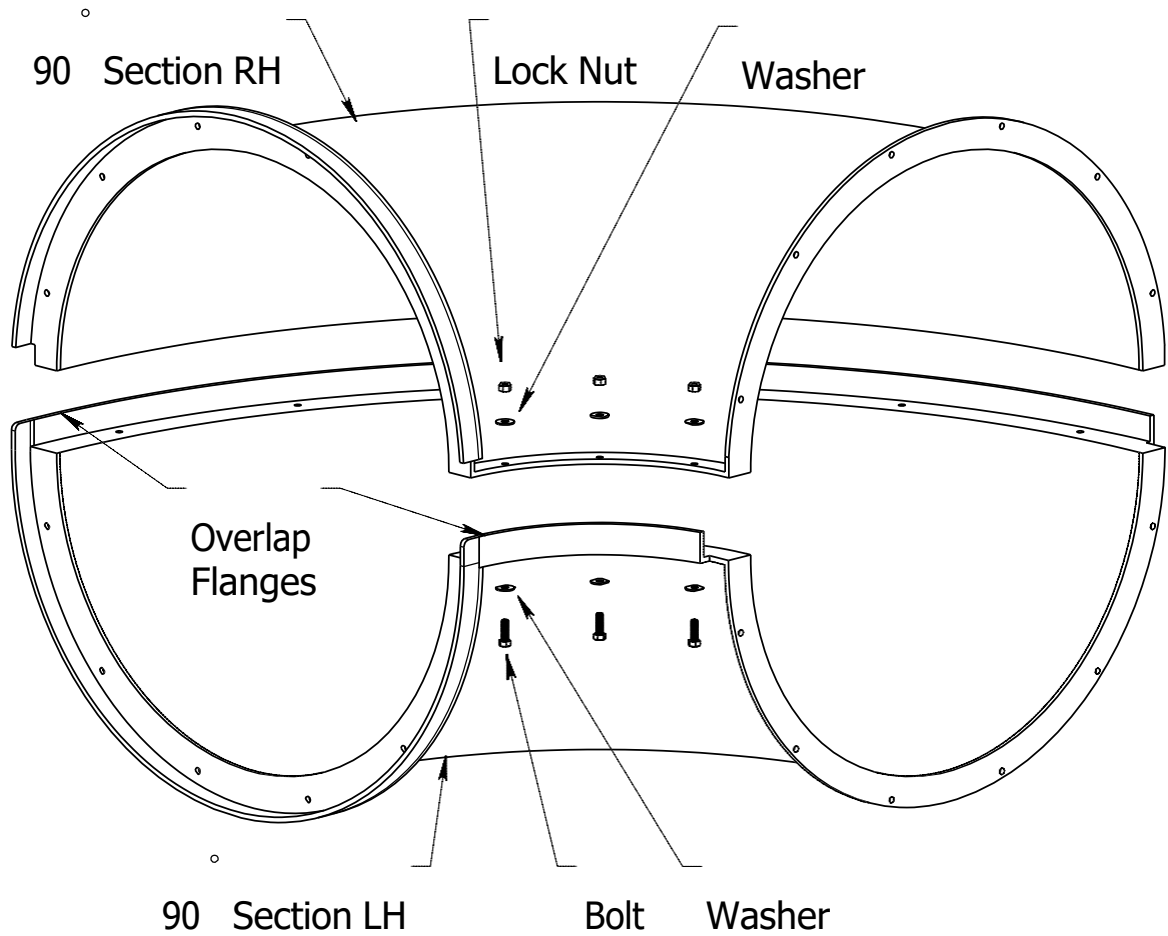
## For 6.5' Deck Height



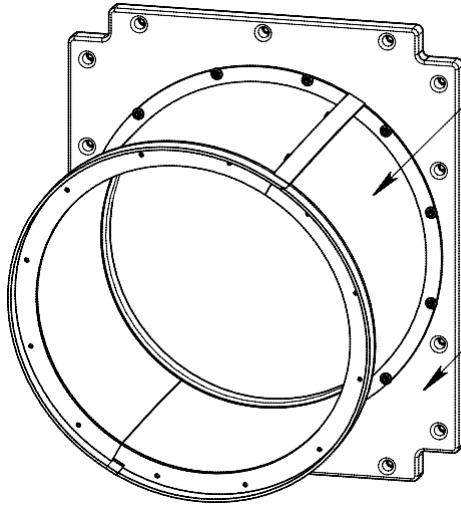
**NOTE:** To spiral in the opposite direction, apply CW turns instead of CCW and vice versa. Turns may need to be adjusted depending on the level of the land.

### Step #1

Assemble the Elbow Section Halves together with the hardware as shown.  
Note the position of the Overlap Flanges in relation to the direction of the Bolts.





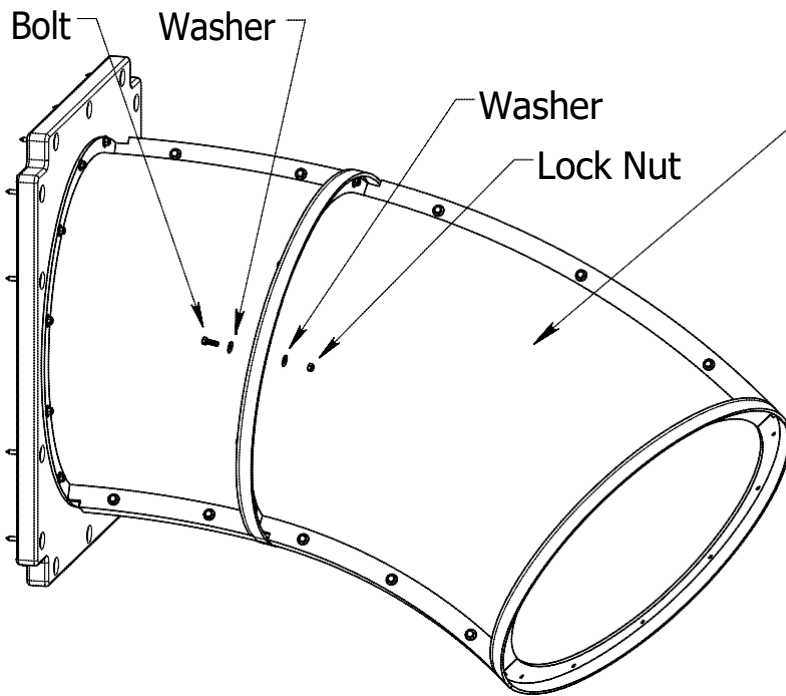


Step #2

Using Nuts, Washers and Bolts, attach the 10 ° Elbow to Entry Panel in the "Quick Reference" orientation.

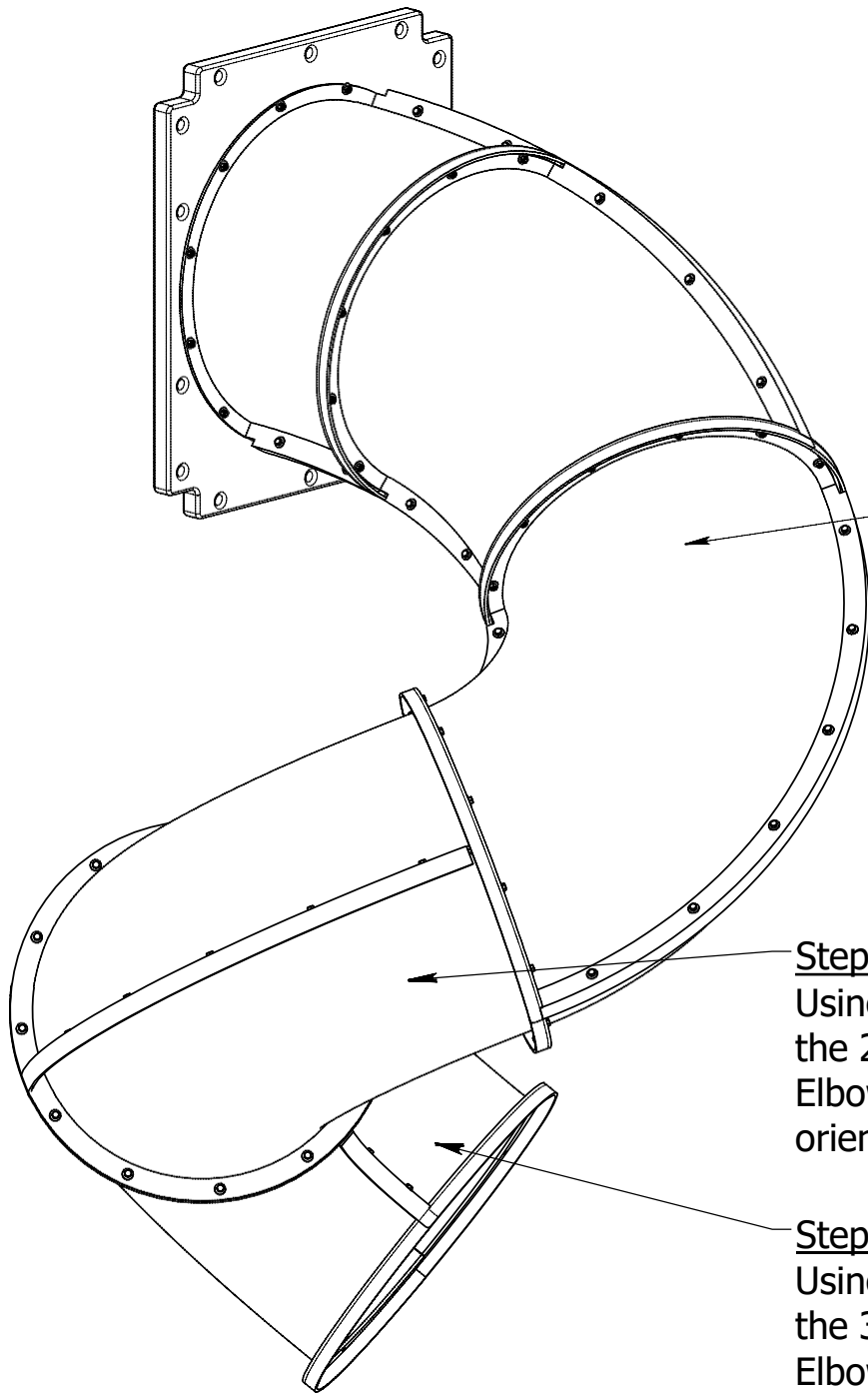
Step #3

After properly blocking the slide entrance on the playset, attach the Entry Chute/first Elbow assembly to the playset with the Lag Screws and Washers provided.



Step #4

Using Nuts, Washers and Bolts, attach the 30 ° Elbow to the previous Elbow in the "Quick Reference" orientation.



Step #5

Using Nuts, Washers and Bolts, attach the 90 ° Elbow to the previous Elbow in the "Quick Reference" orientation.

Step #6

Using Nuts, Washers and Bolts, attach the 2nd 90 ° Elbow to the previous Elbow in the "Quick Reference" orientation.

Step #7

Using Nuts, Washers and Bolts, attach the 3rd 90 ° Elbow to the previous Elbow in the "Quick Reference" orientation.

### Step #8

Place the end of the Exit Chute up against the last Elbow Section and make it level with the ground. If any of the last Elbow bolt holes line up with the Exit Chute attach with Bolts and Washers (possibly 2 Places). For all the holes that don't line up attach with Lag Screws and Washers. (as many as 12 places) Start each Bolt by hand before tightening. Be careful not to overtighten the Lag Screws into the soft plastic.

