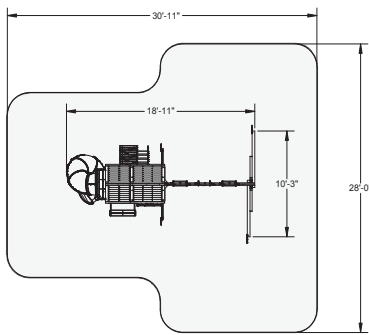


# GRAND VALLEY RETREAT – F23175

## INSTALLATION AND OPERATING INSTRUCTIONS



### **! WARNING**

To reduce the risk of serious injury or death, you must read and follow these instructions. Keep and refer to these instructions often and give them to any future owner of this play system. Manufacturer contact information provided below.

OBSTACLE FREE SAFETY ZONE - 30' 11" x 28' area requires Protective Surfacing. See page 3.

MAXIMUM VERTICAL FALL HEIGHT - 7'1" (2.16 m)

CAPACITY - 11 Users Maximum, Ages 3 to 10; Weight Limit 110 lbs. (49.9 kg) per child.

RESIDENTIAL HOME USE ONLY. Not intended for public areas such as schools, churches, nurseries, day cares or parks. Warning. Only for domestic use.



Two person  
assembly



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1.800.933.0771  
972.385.0100  
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<https://parts.kidkraft.com/>

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(GMT+1)  
For online parts replacement visit  
<https://parts.kidkraft.eu/>

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Installation of I.D./Warning Plaque. ....	Final Step

9403175

Rev 07/01/2019

## Warnings and Safe Play Instructions



**CONTINUOUS ADULT SUPERVISION REQUIRED.** Most serious injuries and deaths on playground equipment have occurred while children were unsupervised! Our products are designed to meet mandatory and voluntary safety standards. Complying with all warnings and recommendations in these instructions will reduce the risk of serious or fatal injury to children using this play system. Go over the warnings and safe play instructions regularly with your children and make certain that they understand and follow them. Remember on-site adult supervision is required for children of all ages.



### WARNING

#### SERIOUS HEAD INJURY HAZARD

Installation over concrete, asphalt, dirt, grass, carpet and other hard surface creates a risk of serious injury or death from falls to the ground. Install and maintain shock absorbing material under and around play-set as recommended on page 3 of these instructions.

#### COLLISION HAZARD

Place play-set on level ground at least 2m from any obstruction such as a garage or house, fences, poles, trees, sidewalks, walls, landscape timbers, rocks, pavement, planters, garden borders, overhanging branches, laundry lines, and electrical wires. (See OBSTACLE FREE SAFETY ZONE on cover)

#### CHOKING HAZARD/SHARP EDGES & POINTS

Adult assembly required. This product contains small parts and parts with sharp edges and points. Keep parts away from children until fully assembled.

#### WARNING LABEL

Owners shall be responsible for maintaining the legibility of the warning labels.

#### STRANGULATION HAZARD

- NEVER allow children to play with ropes, clotheslines, pet leashes, cables, chains or cord-like items when using this play-set or to attach these items to play-set.
- NEVER allow children to wear loose fitting clothing, ponchos, hoods, scarves, capes, necklaces, items with draw-strings, cords or ties when using this play-set.
- NEVER allow children to wear bike or sport helmets when using this play-set.

Failure to prohibit these items, even helmets with chin straps, increases the risk of serious injury and death to children from entanglement and strangulation.

#### TIP OVER HAZARD

Choose a level location for the equipment. This can reduce the likelihood of the play set tipping over and loose-fill surfacing materials washing away during heavy rains.

DO NOT allow children to play on the play-set until the assembly is complete and the unit is properly anchored.

Never add extra length to chain or rope. The chains or ropes provided are the maximum length designed for the swinging element(s).



## WARNING – Safe Play Instructions

- ✓ Observe capacity limitations of your play-set. See front cover.
- ✓ Dress children with well fitting and full foot enclosing footwear.
- ✓ Teach children to sit with their full weight in the center of the swing seat to prevent erratic swing motion or falling off.
- ✓ Check for splintered, broken or cracked wood; missing, loose, or sharp edged hardware. Replace, tighten and or sand smooth as required prior to playing.
- ✓ Verify that suspended climbing ropes, rope ladders, chain or cable are secured at both ends and cannot be looped back on itself as to create an entanglement hazard.
- ✓ On sunny and or hot days, check the slide and other plastic rides to assure that they are not very hot as to cause burns. Cool hot slide and rides with water and wipe dry prior to using.
- ✓ Orientate slide such that it gets the least amount of exposure to the sun.
- ✗ Do not allow children to wear open toe or heel footwear like sandals, flip-flops or clogs.
- ✗ Do not allow children to walk, in front, between, behind or close to moving rides.
- ✗ Do not let children twist swing chains or ropes or loop them over the top support bar. This may reduce the strength of the chain or rope and cause premature failure.
- ✗ Do not let children get off rides while they are in motion.
- ✗ Do not permit climbing on equipment when it is wet.
- ✗ Do not permit rough play or use of equipment in a manner for which it was not intended. Standing on or jumping from the roof, elevated platforms, swings, climbers, ladders or slide can be dangerous.
- ✗ Do not allow children to swing empty rides or seats.
- ✗ Do not allow children to go down slide head first or run up slide.

# Protective Surfacing - Reducing Risk of Serious Head Injury From Falls.

One of the most important things you can do to reduce the likelihood of serious head injuries is to install shock-absorbing protective surfacing under and around your play equipment. The protective surfacing should be applied to a depth that is suitable for the equipment height in accordance with ASTM F1292. There are different types of surfacing to choose from; whichever product you select, follow these guidelines:

## Loose-Fill Materials

- Maintain a minimum depth of 9 inches of loose-fill materials such as wood mulch/chips, engineered wood fiber (EWF), or shredded/recycled rubber mulch for equipment up to 8 feet high; and 9 inches of sand or pea gravel for equipment up to 5 feet high. NOTE: An initial fill level of 12 inches will compress to about a 9-inch depth of surfacing over time. The surfacing will also compact, displace, and settle, and should be periodically raked and refilled to maintain at least a 9-inch depth.
- Use a minimum of 6 inches of protective surfacing for play equipment less than 4 feet in height. If maintained properly, this should be adequate. (At depths less than 6 inches, the protective material is too easily displaced or compacted.)

NOTE: Do not install home playground equipment over concrete, asphalt, or any other hard surface. A fall onto a hard surface can result in serious injury to the equipment user. Grass and dirt are not considered protective surfacing because wear and environmental factors can reduce their shock absorbing effectiveness. Carpeting and thin mats are not adequate protective surfacing. Ground level equipment -- such as a sandbox, activity wall, playhouse or other equipment that has no elevated play surface -- does not need any protective surfacing.

- Use containment, such as digging out around the perimeter and/or lining the perimeter with landscape edging. Don't forget to account for water drainage.
- Periodically rake, check and maintain the depth of the loose-fill surfacing material. Marking the correct depth on the play equipment support posts will help you to see when the material has settled and needs to be raked and or replenished. Be sure to rake and evenly redistribute the surfacing in heavily used areas.
- Do not install loose fill surfacing over hard surfaces such as concrete or asphalt.

## Poured-In-Place Surfaces or Pre-Manufactured Rubber Tiles

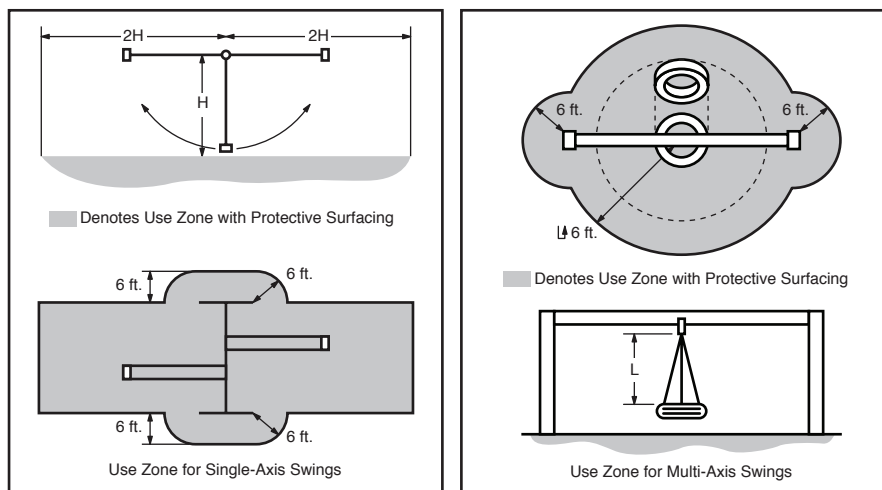
You may be interested in using surfacing other than loose-fill materials - like rubber tiles or poured-in-place surfaces.

- Installations of these surfaces generally require a professional and are not "do-it yourself" projects.
- Review surface specifications before purchasing this type of surfacing. Ask the installer/manufacture for a report showing that the product has been tested to the following safety standard: ASTM F1292 *Standard Specification for Impact Attenuation of Surfacing Materials within the Use Zone of Playground Equipment*. This report should show the specific height for which the surface is intended to protect against serious head injury. This height should be equal to or greater than the fall height - vertical distance between a designated play surface (*elevated surface for standing, sitting, or climbing*) and the protective surfacing below - of your play equipment.
- Check the protective surfacing frequently for wear.

## Placement

Proper placement and maintenance of protective surfacing is essential. Refer to diagram on front cover. Be sure to;

- Extend surfacing at least 2m from the equipment in all directions.
- For to-fro swings, extend protective surfacing in front of and behind the swing to a distance equal to twice the height of the top bar from which the swing is suspended.
- For tire swings, extend surfacing in a circle whose radius is equal to the height of the suspending chain or rope, plus 6 feet in all directions.



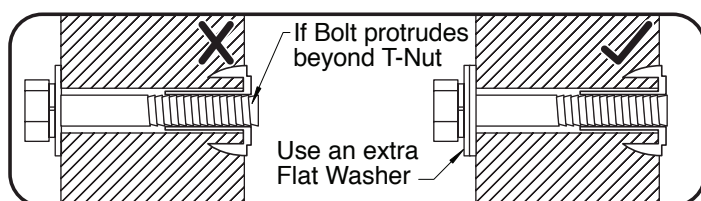
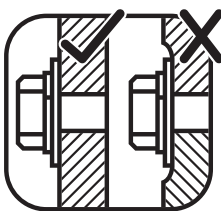
# Instructions for Proper Maintenance

Your KidKraft Play System is designed and constructed of quality materials with your child's safety in mind. As with all outdoor products used by children, it will weather and wear. To maximize the enjoyment, safety and life of your Play Set, it is important that you, the owner, properly maintain it.

## Check the following at the beginning of the play season:

### HARDWARE:

- ✓ Check metal parts for rust. If found, sand and repaint using a non-lead paint complying with 16 CFR 1303.
- ✓ Inspect and tighten all hardware. On wood assemblies **DO NOT OVER-TIGHTEN** as to cause crushing and splintering of wood.
- ✓ Check for sharp edges or protruding screw threads, add washers if required.



### SHOCK ABSORBING SURFACING:

- ✓ Check for foreign objects. Rake and check depth of loose fill protective surfacing materials to prevent compaction and maintain appropriate depth. Replace as necessary. (See Protective Surfacing, page 3)

### GROUND STAKES (ANCHORS):

- ✓ Check for looseness, damage or deterioration. Should firmly anchor unit to ground during use. Re-secure and or replace, if necessary.

### SWING HANGERS:

- ✓ Check that bolts are secure and tight. Quick clips should be completely closed and threaded clips screwed tight.
- ✓ If squeaking occurs lubricate bushings with oil or WD-40®.

### SWINGS, ROPES AND RIDES:

- ✓ Reinstall if removed during cold season. Check all moving parts including swing seats, ropes, chains and attachments for wear, rust and other deterioration. Replace as needed.
- ✓ Check that ropes are tight, secure at both ends and cannot loop back as to create an entrapment.

### WOOD PARTS:

- ✓ Check all wood members for deterioration, structural damage and splintering. Sand down splinters and replace deteriorated wood members. As with all wood, some checking and small cracks in grain is normal.
- ✓ Unprotected, they will appear weathered over time. Periodic application of an exterior water repellent or stain (water-based) will help improve appearance and life.

## Check twice a month during play season:

### HARDWARE:

- ✓ Inspect for tightness. Must be firmly against, but not crushing the wood. **DO NOT OVER-TIGHTEN.** This will cause splintering of wood.
- ✓ Check for sharp edges or protruding screw threads. Add washers if required.

### SHOCK ABSORBING SURFACING:

- ✓ Rake and check depth of loose fill protective surfacing materials to prevent compaction and maintain appropriate depth. Replace as necessary. (See Protective Surfacing, page 3)

## Check once a month during play season:

### SWING HANGERS:

- ✓ Check that they are secure and orientated correctly. Hook should rotate freely and perpendicular to support beam.
- ✓ If squeaking occurs lubricate bushings with oil or WD-40®.

### SWINGS AND RIDES:

- ✓ Check swing seats, all ropes, chains and attachments for fraying, wear, excessive corrosion or damage. Replace if structurally damaged or deteriorated.

## Check at the end of the play season:

### SWINGS AND RIDES:

- ✓ To prolong their life, remove swings and store inside when outside temperature is below 32°F/0°C. Below freezing, plastic parts may become more brittle.

### SHOCK ABSORBING SURFACING:

- ✓ Rake and check depth of loose fill protective surfacing materials to prevent compaction and maintain appropriate depth. Replace as necessary. (See Protective Surfacing, page 3)

**If you dispose of your play set:** Please disassemble and dispose of your unit so that it does not create any unreasonable hazards at the time it is discarded. Be sure to follow your local waste ordinances.

## About Our Wood

KidKraft Premium Play Systems uses only premium playset lumber, ensuring the safest product for your children's use. Although we take great care in selecting the best quality lumber available, wood is still a product of nature and susceptible to weathering which can change the appearance of your set.

### What causes weathering? Does it affect the strength of my Play System?

One of the main reasons for weathering is the effects of water (moisture); the moisture content of the wood at the surface is different than the interior of the wood. As the climate changes, moisture moves in or out of the wood, causing tension which can result in checking and or warping. You can expect the following due to weathering. These changes will not affect the strength of the product:

1. **Checking** is surface cracks in the wood along the grain. A post (4" x 4") will experience more checking than a board (1" x 4") because the surface and interior moisture content will vary more widely than in thinner wood.
2. **Warping** results from any distortion (twisting, cupping) from the original plane of the board and often happens from rapid wetting and drying of the wood.
3. **Fading** happens as a natural change in the wood color as it is exposed to sun-light and will turn a grey over time.

### How can I reduce the amount of weathering to my Play System?

At the factory we have coated the wood with a water repellent or stain. This coating decreases the amount of water absorption during rain or snow thus decreasing the tension in the wood. Sunlight will break down the coating, so we recommend applying a water repellent or stain on a yearly basis (see your local stain and paint supplier for a recommended product).

Most weathering is just the normal result of nature and will not affect safe play and enjoyment for your child. However if you are concerned that a part has experienced a severe weathering problem please call our consumer relations department for further assistance.

**Complete and mail registration card to receive important product notifications and assure prompt warranty service.**

## 5 Year Limited Warranty

KidKraft warrants that this product is free from defect in materials and workmanship for a period of one year from the original date of purchase. In addition, lumber is warranted for 5 years against structural failure due to rot and insect damage. All other parts, such as hardware, swings, rides, accessories, and slides carry a one-year warranty only.

This warranty applies to the original owner and registrant and is non-transferable.

Regular maintenance is required to assure the integrity of your Play System. This warranty does not cover any inspection cost.

This Limited Warranty does not cover:

- Labor for replacement of any defective item(s);
- Incidental or consequential damages;
- Cosmetic defects which do not affect performance or integrity;
- Vandalism; improper use or installation; acts of nature;
- Minor twisting, warping, checking, or any other natural occurring properties of wood that do not affect performance or integrity.

KidKraft products have been designed for safety and quality. Any modifications made to the original product could damage the structural integrity of the unit leading to failure and possible injury.

Kidkraft cannot assume any responsibility for modified products. Furthermore, modification voids any and all warranties.

This product is warranted for **RESIDENTIAL USE ONLY**. Under no circumstance should a KidKraft Play System be used in public settings such as schools, churches, playgrounds, parks, day cares and the like. Such use may lead to product failure and potential injury. Any and all public use will void this warranty.

KidKraft disclaims all other representations and warranties of any kind, express or implied.

This Warranty gives you specific legal rights. You may have other rights as well which vary from state to state or province to province. This warranty excludes all consequential damages, however, some states do not allow the limitation or exclusion of consequential damages, and therefore this limitation may not apply to you.

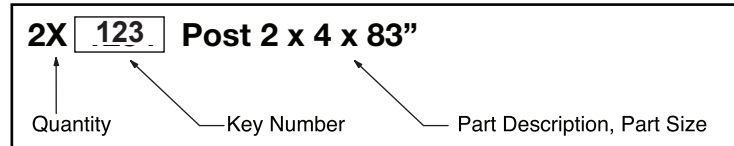
# Keys to Assembly Success

## Tools Required



## Part Identification Key

On each page, you will find the parts and quantities required to complete the assembly step illustrated on that page. Here is a sample.



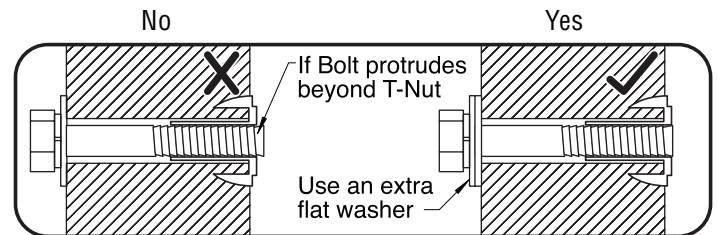
## Symbols

Throughout these instructions symbols are provided as important reminders for proper and safe assembly.

<p>This identifies information that requires special attention. Improper assembly could lead to an unsafe or dangerous condition.</p>		<p>Check that set or assembly is properly level before proceeding.</p> <p>Use Level</p>
<p>Use Help</p>	<p>Use Help</p>	<p>Where this is shown, 2 or 3 people are required to safely complete the step. To avoid injury or damage to the assembly make sure to get help!</p>
<p>Measure Distance</p>	<p>Check that assembly is square before tightening bolts.</p>	<p>Square Assembly</p>
<p>Use a measuring tape to assure proper location.</p>		<p>Pre-drill 1/8\" Bit</p> <p>Pre-drill a pilot hole before fastening screw or lag to prevent splitting of wood.</p>
<p>This indicates time to tighten bolts, but not too tight! Do not crush the wood. This may create splinters and cause structural damage.</p>		<p>Tighten Bolts</p>

## CAUTION – Protrusion Hazard

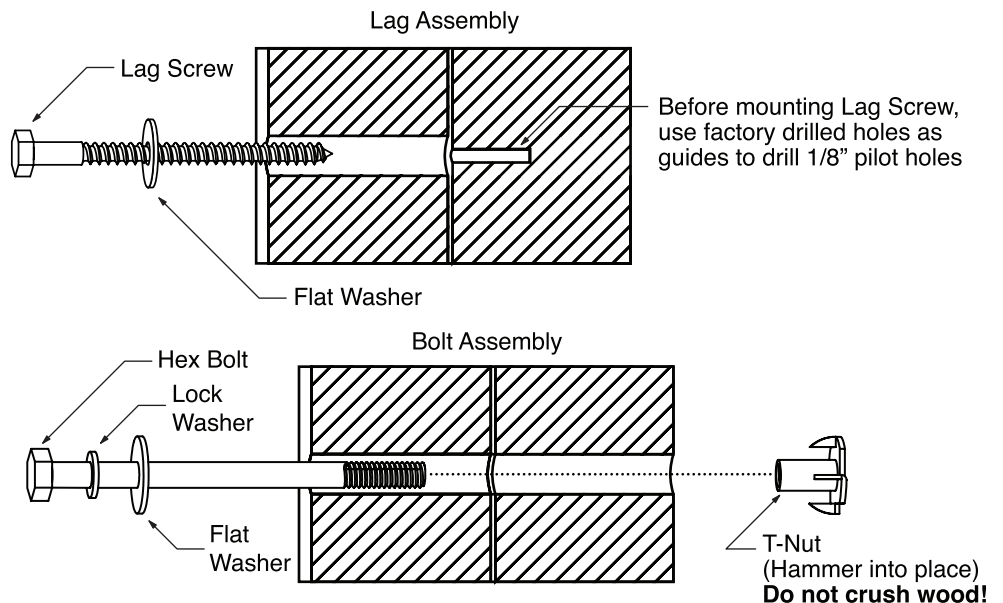
Once the assembly is tightened, watch for exposed threads. If a thread protrudes from the T-Nut, remove the bolt and add washers to eliminate this condition. Extra washers have been provided for this purpose.



## Proper Hardware Assembly

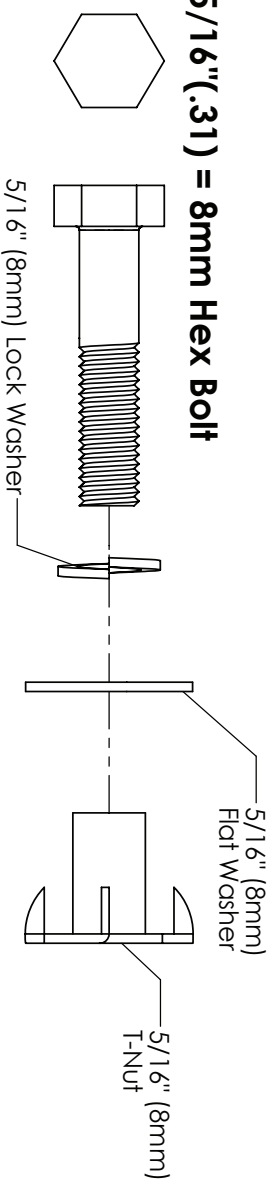
Lag screws require drilling pilot holes to avoid splitting wood. Only a flat washer is required. For ease of installation liquid soap can be used on all lag-type screws.

For bolts, tap T-Nut into hole with hammer. Insert the hex bolt through lock washer first then flat washer then hole. Because the assemblies need to be squared do not completely tighten until instructed. Pay close attention to diameter of the bolts. 5/16\" is slightly larger than 1/4\".

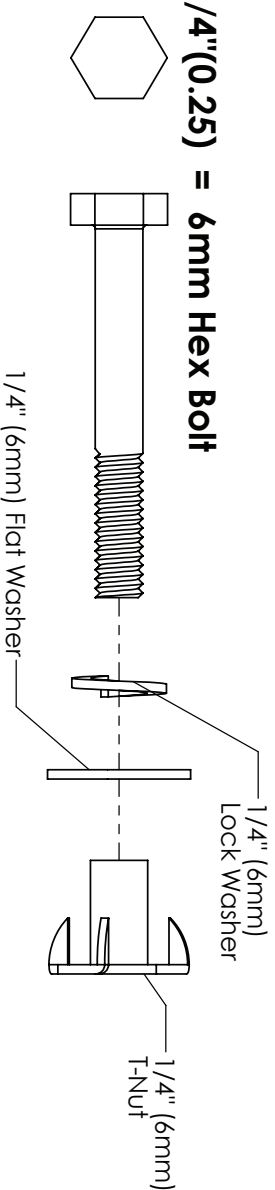


# KIDKRAFT DESIGN HARDWARE

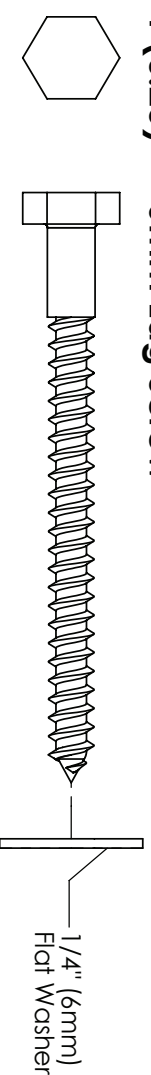
**5/16"(.31) = 8mm Hex Bolt**



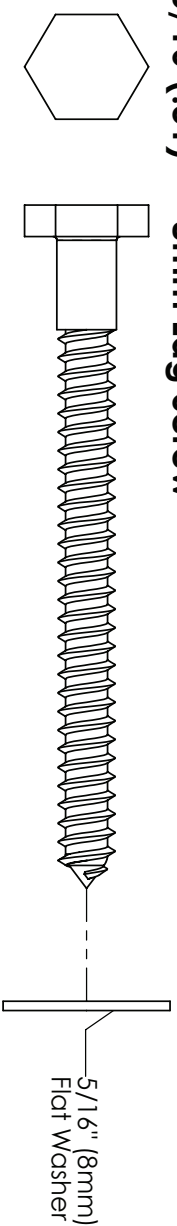
**1/4"(0.25) = 6mm Hex Bolt**



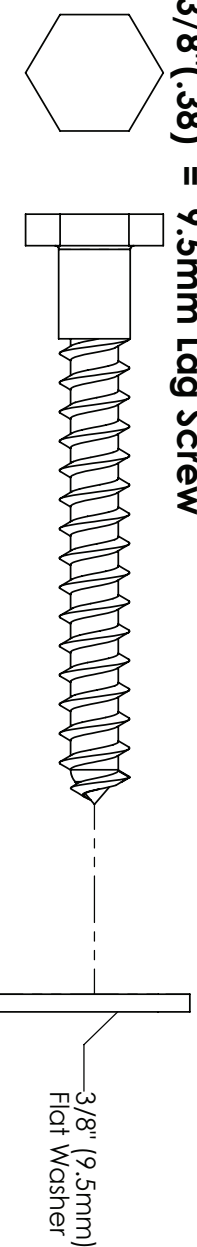
**1/4"(0.25) = 6mm Lag Screw**



**5/16"(.31) = 8mm Lag Screw**



**3/8"(.38) = 9.5mm Lag Screw**



**HARDWARE LENGTH CHART**  
inches vs millimetres

6	152
5½	140
5	127
4½	114
4	102
3½	89
3	76
2½	64
2	51
1½	38
1¼	32
1-1/8	29
1	25.4
7/8	22
3/4	19
1/2	12.7

## DIAMETER CONVERSION

1 inch = 25.4mm

**For example:**

BOLT DIAMETER 5/16 (0.31) inches

0.31 inches x 25.4mm = 8mm

## LENGTH CONVERSION

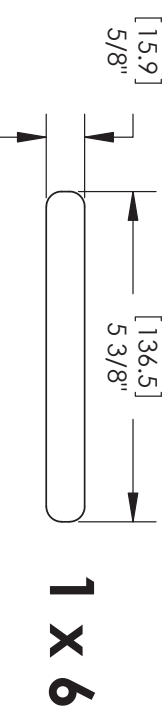
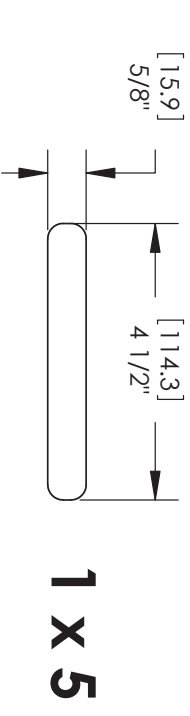
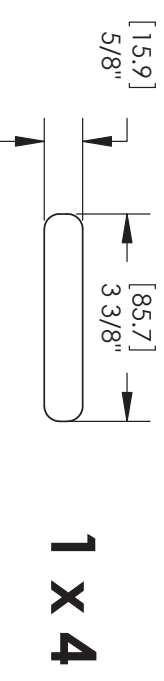
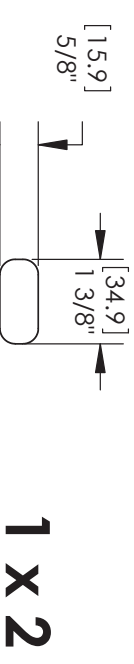
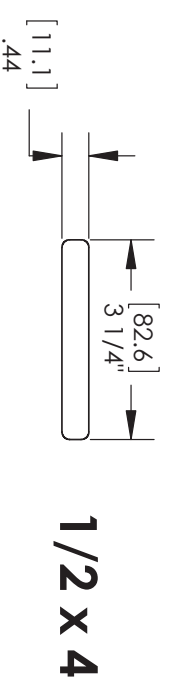
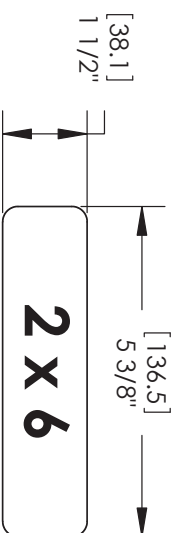
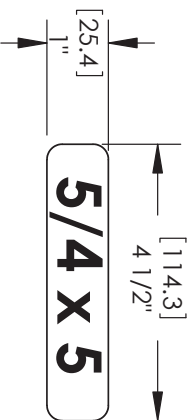
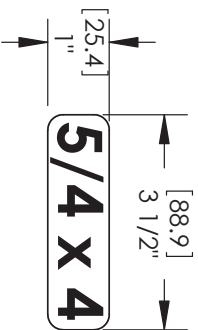
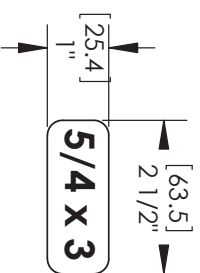
1 inch = 25.4mm

**For example:**

BOLT LENGTH 4½ (4.5) inches long

4.5 inches x 25.4mm = 114mm long

# KIDKRAFT DESIGN WOOD PROFILES



## LENGTH CONVERSION

1 inch = 25.4mm

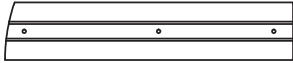
For example:

BOARD LENGTH 59¼ (59.25) inches  
59.25 inches x 25.4mm = 1505mm

Dimensions in brackets  
[mm] represent millimetres.

# Part Identification (Reduced Part Size)

4pc. - [041] - 5/8 x 3 x 15" - Window Shutter FSC - Box 1 - 4608778



Nominal Size	Actual Size
5/8 x 3	19/32 x 3
1 x 4	5/8 x 3-1/4
1 x 5	5/8 x 4-1/4
1 x 6	5/8 x 5-1/4

4pc. - [187] - 1 x 4 x 8-1/2" - Side Gable FSC - Box 2 - 4638819



2pc. - [186] - 1 x 4 x 13-1/2" - Centre Gable FSC - Box 2 - 4638820



1pc. - [023] - 1 x 4 x 15" - Ladder Gap FSC - Box 2 - 4638828



1pc. - [030] - 1 x 4 x 20-1/2" - Board Access FSC - Box 2 - 4638826



4pc. - [166] - 1 x 4 x 26-1/2" - Wall Board FSC - Box 3 - 4638039



1pc. - [345] - 1 x 4 x 33-7/8" - Crowsnest Floor FSC - Box 4 - 4638108



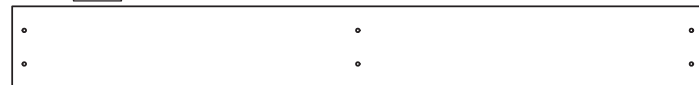
2pc. - [346] - 1 x 5 x 33-7/8" - Crowsnest Floor FSC - Box 4 - 4638109



1pc. - [344] - 1 x 5 x 33-7/8" - Crowsnest Gap FSC - Box 4 - 4638111



1pc. - [153] - 1 x 5 x 36" - Floor A FSC - Box 2 - 4638796



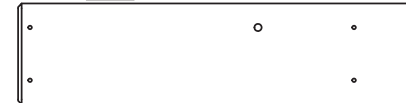
3pc. - [151] - 1 x 5 x 42-1/2" - Slidenest Floor A FSC - Box 2 - 4638795



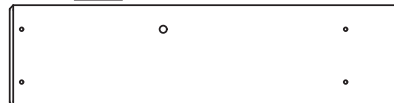
3pc. - [032] - 1 x 6 x 20-1/2" - Rock Board A FSC - Box 2 - 4638822



3pc. - [033] - 1 x 6 x 20-1/2" - Rock Board B FSC - Box 2 - 4638823



2pc. - [034] - 1 x 6 x 20-1/2" - Rock Board C FSC - Box 2 - 4638824



2pc. - [035] - 1 x 6 x 20-1/2" - Rock Board D FSC - Box 2 - 4638825



1pc. - [031] - 1 x 6 x 20-1/2" - Rock Bottom FSC - Box 3 - 4638827



# Part Identification (Reduced Part Size)

2pc. - **[411]** - 1 x 6 x 27-1/2" - Wall Board FSC - Box 3 - 4638881



Nominal Size	Actual Size
1 x 6	5/8 x 5-1/4
5/4 x 3	15/16 x 2-1/4
2 x 3	1-1/4 x 2-1/4
5/4 x 4	15/16 x 3-1/4

1pc. - **[410]** - 1 x 6 x 32" - Center Board FSC - Box 3 - 4638883



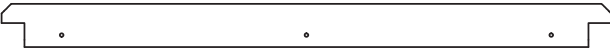
6pc. - **[152]** - 1 x 6 x 36" - Floor FSC - Box 2 - 4638797



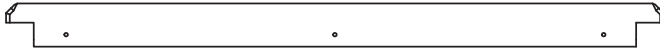
3pc. - **[150]** - 1 x 6 x 42 1/2" - Slidenest Floor FSC - Box 2 - 4638794



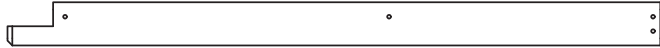
1pc. - **[112]** - 5/4 x 3 x 31-3/4" - SW Table Top FSC - Box 3 - 4638811



1pc. - **[510]** - 5/4 x 3 x 34-1/4" - SW Table Top FSC - Box 3 - 4638622



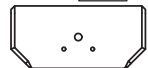
1pc. - **[025]** - 5/4 x 3 x 34-1/4" - Top Ladder FSC - Box 2 - 4638829



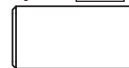
2pc. - **[111]** - 2 x 3 x 42-1/4" - Diagonal FSC - Box 3 - 4638587



2pc. - **[010]** - 5/4 x 4 x 7" - Bench End Support Cafe FSC  
- Box 2 - 48039136



1pc. - **[014]** - 5/4 x 4 x 6-1/2"  
- Bench Brace Top FSC  
- Box 2 - 48039836



2pc. - **[011]** - 5/4 x 4 x 11" - Bench Leg Cafe FSC - Box 2 - 48039936



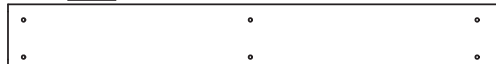
4pc. - **[022]** - 5/4 x 4 x 13-3/4" - Ladder Tread FSC - Box 2 - 4638517



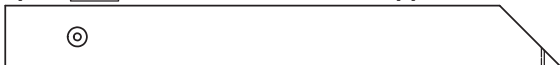
2pc. - **[012]** - 5/4 x 4 x 16" - Bench Base Cafe FSC - Box 2 - 48039236



1pc. - **[342]** - 5/4 x 4 x 25-1/2" - Crowsnest Short FSC - Box 4 - 4638115



1pc. - **[180]** - 5/4 x 4 x 29" - Roof Support FSC - Box 4 - 4638806



# Part Identification (Reduced Part Size)

1pc. - [181] - 5/4 x 4 x 29" - Roof Support Left FSC - Box 4 - 4638807



Nominal Size	Actual Size
5/4 x 4	15/16 x 3-1/4
5/ x 5	15/16 x 4-1/4

1pc. - [401] - 5/4 x 4 x 30-5/8" - Bottom Board FSC - Box 3 - 4638882



1pc. - [190] - 5/4 x 4 x 31" - Right Gable Angle FSC - Box 4 - 4638817



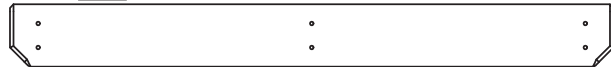
1pc. - [191] - 5/4 x 4 x 31" - Left Gable Angle FSC - Box 4 - 4638818



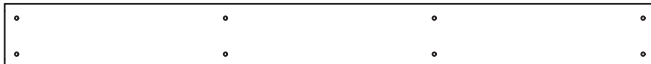
2pc. - [122] - 5/4 x 4 x 31-7/8" - Post FSC - Box 3 - 4638791



2pc. - [013] - 5/4 x 4 x 31-7/16" - Bench Top Cafe FSC - Box 3 - 48034836



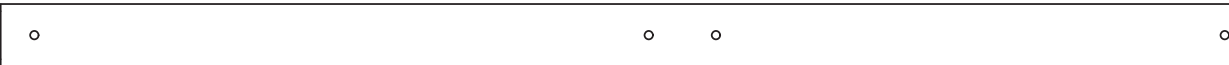
1pc. - [331] - 5/4 x 4 x 33-7/8" - Crowsnest Back FSC - Box 4 - 4638105



2pc. - [341] - 5/4 x 4 x 34 1/4" - Crowsnest Upright FSC - Box 3 - 4638118



1pc. - [070] - 5/4 x 4 x 64-1/4" - Front Ground FSC - Box 3 - 4638847



1pc. - [072] - 5/4 x 4 x 64-1/4" - Back Ground FSC - Box 3 - 4638848



1pc. - [127] - 5/4 x 4 x 65-1/2" - Front Top FSC - Box 3 - 4638798



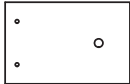
1pc. - [100] - 5/4 x 4 x 65-1/2" - Back Top FSC - Box 3 - 4638799



1pc. - [110] - 5/4 x 4 x 82-5/8" - Ground SW FSC - Box 3 - 4638782



1pc. - [123] - 5/4 x 5 x 6-1/2" - SL Top Right FSC - Box 2 - 4638788



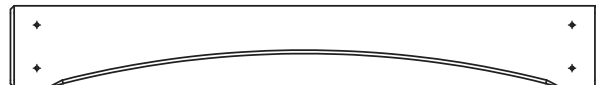
1pc. - [120] - 5/4 x 5 x 9-3/4" - SL Top Left FSC - Box 2 - 4638787



1pc. - [165] - 5/4 x 5 x 12-1/8" - Steering Wheel Dash FSC - Box 2 - 4638609



1pc. - [125] - 5/4 x 5 x 30-5/8" - SL Top FSC - Box 3 - 4638793



# Part Identification (Reduced Part Size)

2pc. - **[347]** - 5/4 x 5 x 31" - Crowsnest Wall FSC - Box 2 - 4638119



1pc. - **[074]** - 5/4 x 5 x 33-5/8" - SL Bottom FSC - Box 3 - 4638846



1pc. - **[080]** - 5/4 x 5 x 35-1/2" - Table Top FSC - Box 3 - 4638801



1pc. - **[370]** - 5/4 x 5 x 36-1/4" - Middle Arch FSC - Box 3 - 4638800



2pc. - **[185]** - 5/4 x 6 x 10" - Sunburst FSC  
- Box 2 - 4638614



4pc. - **[330]** - 5/4 x 6 x 18" - Crowsnest Side FSC  
- Box 3 - 4638843



2pc. - **[200]** - 5/4 x 6 x 32-1/4" - Roof Spacer FSC - Box 4 - 4638777



1pc. - **[082]** - 1-1/4 x 1-1/4 x 44-7/8" - SL Post FSC - Box 3 - 4638790



1pc. - **[183]** - 1-1/4 x 2-1/8 x 24-5/8" - Top Post Left FSC - Box 4 - 4638808



1pc. - **[182]** - 1-1/4 x 2-1/8 x 24-5/8" - Top Post Right FSC - Box 4 - 4638809



2pc. - **[081]** - 2 x 3 x 3" - Table Gusset FSC - Box 2 - 4638805



1pc. - **[124]** - 2 x 4 x 5-1/4" - Short Floor Joist FSC  
- Box 2 - 4638623



2pc. - **[121]** - 2 x 4 x 5-1/4" - Short Joist FSC  
- Box 2 - 4638789



4pc. - **[333]** - 2 x 4 x 14-5/16" - Crowsnest Joist FSC  
- Box 2 - 4638113



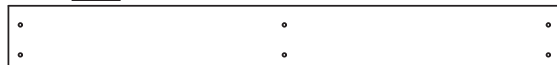
1pc. - **[400]** - 2 x 4 x 26-1/4" - SL Support FSC - Box 3  
- 4638168



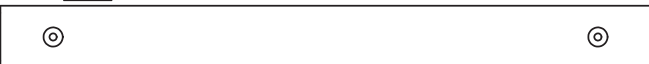
2pc. - **[348]** - 2 x 4 x 27-3/4" - Crowsnest Face FSC - Box 2  
- 4638107



1pc. - **[126]** - 2 x 4 x 28-3/4" - SL End FSC - Box 2 - 4638792



1pc. - **[340]** - 2 x 4 x 33-7/8" - Crowsnest SL Top FSC - Box 2 - 4638117



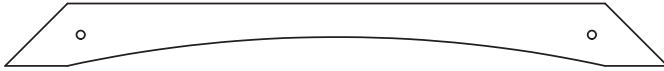
1pc. - **[332]** - 2 x 4 x 33-7/8" - Crowsnest Front FSC - Box 4 - 4638110



Nominal Size	Actual Size
5/4 x 5	1 x 4-1/2
5/4 x 6	1 x 5-1/2
2 x 3	1-3/8 x 2-1/2
2 x 4	1-3/8 x 3-3/8

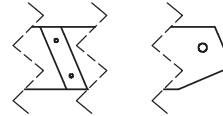
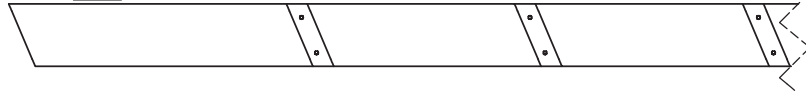
# Part Identification (Reduced Part Size)

1pc. - **[192]** - 2 x 4 x 34-1/2" - Gable Bottom FSC - Box 3 - 4638816



Nominal Size	Actual Size
2 x 4	1-3/8 x 3-3/8
1-1/4 x 5	1-1/4 x 5
2 x 6	1-1/2 x 5-1/4
2-1/2 x 3	2-1/2 x 3
4 x 4	3 x 3
3 x 5-1/4	3 x 5-1/4

1pc. - **[020]** - 2 x 4 x 62-7/8" - Left Access Rail FSC - Box 3 - 4638145



1pc. - **[021]** - 2 x 4 x 62-7/8" - Right Access Rail FSC - Box 4 - 4638146



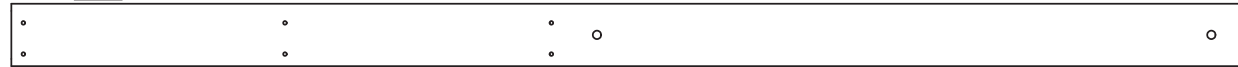
1pc. - **[024]** - 2 x 4 x 62-7/8" - Rock Rail FSC - Box 2 - 4638139



1pc. - **[073]** - 2 x 4 x 64-1/4" - Back Floor FSC - Box 3 - 4638849



1pc. - **[071]** - 2 x 4 x 64-1/4" - Front Floor FSC - Box 4 - 4638844



1pc. - **[085]** - 2 x 4 x 64-1/4" - Floor Joist FSC - Box 4 - 4638845



1pc. - **[184]** - 1-1/4 x 5 x 36" - SW Top FSC - Box 3 - 4638810



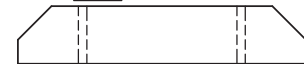
2pc. - **[334]** - 2 x 6 x 15" - Crowsnest Gusset FSC - Box 2 - 4638112



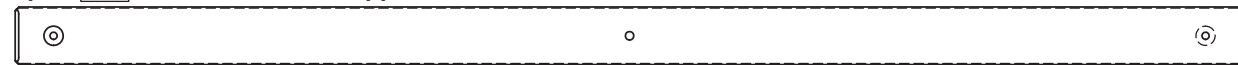
1pc. - **[271]** - 2-1/2 x 3 x 15" - Block SW FSC - Box 3 - 4638507



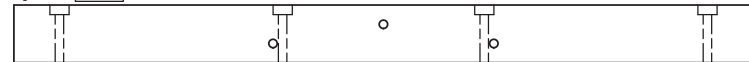
1pc. - **[270]** - 2-1/2 x 3 x 15" - SW Block Angle FSC - Box 3 - 4638508



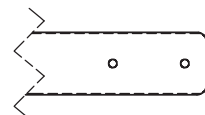
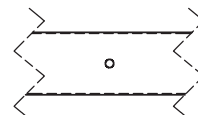
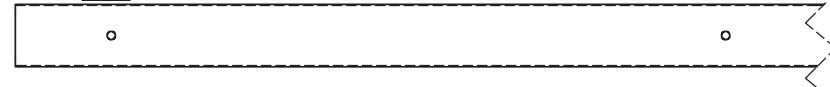
1pc. - **[280]** - 2-1/2 x 3 x 64" - Support Cross FSC - Box 4 - 4638510



1pc. - **[044]** - 4 x 4 x 38-1/2" - SW Wall FSC - Box 3 - 4638779



2pc. - **[272]** - 4 x 4 x 105" - SW Post FSC - Box 3 - 4638166

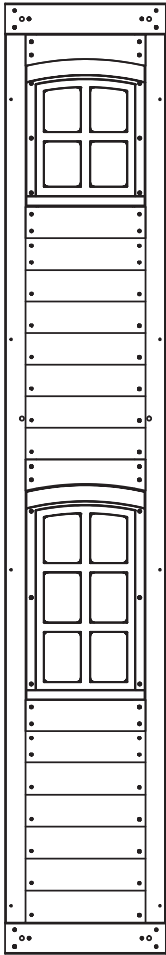


1pc. - **[260]** - 3 x 5-1/4 x 110" - Engineered SW Beam FSC - Box 2 - 4638509

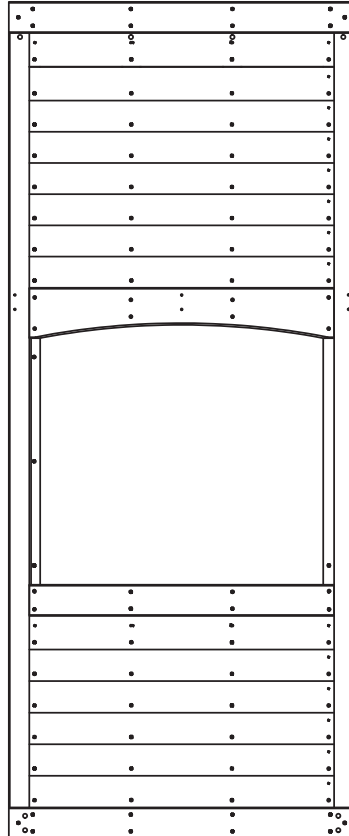


# Part Identification (Reduced Part Size)

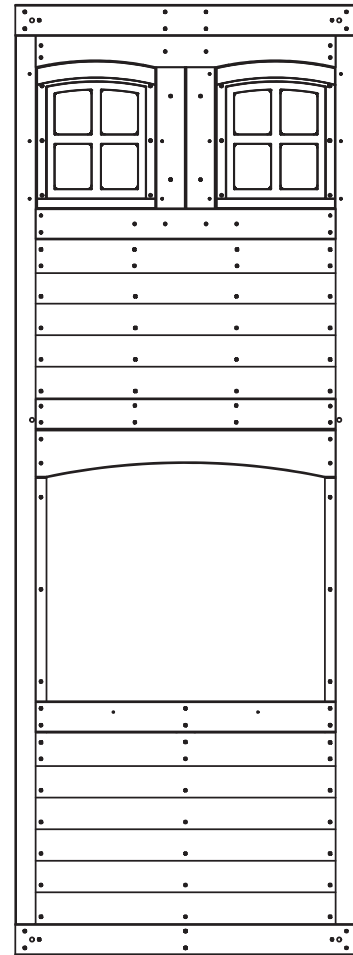
2pc. - [050] - 1-1/4 x 16-3/4 x 99"  
- Narrow Window Panel FSC  
- Box 3 - 47638837



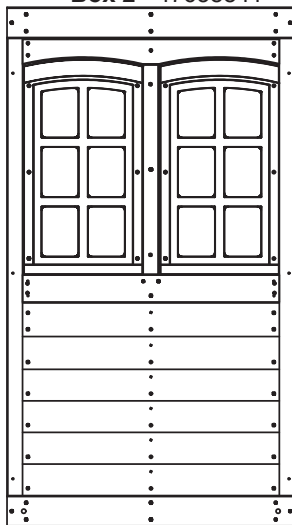
1pc. - [043] - 1-1/4 x 36 x 87-1/4"  
- SW Side Panel FSC - Box 2 - 47638775



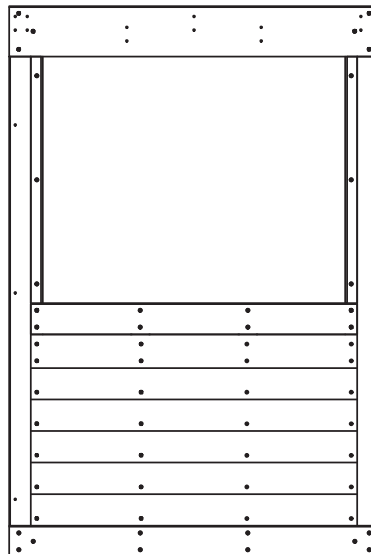
1pc. - [040] - 1-1/4 x 35-1/2 x 99"  
- Wall Cafe Window Panel FSC- Box 2 - 47638838



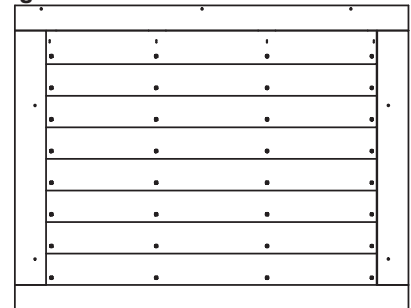
1pc. - [051] - 1-1/4 x 30 x 54-1/8"  
- SL Window Side Panel FSC  
- Box 2 - 47638841



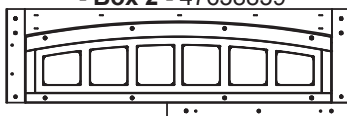
1pc. - [060] - 1-1/4 x 38-1/2 x 57-3/8"  
- SL Panel FSC - Box 4 - 47638842



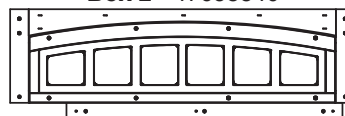
2pc. - [210] - 1-1/4 x 31-3/4 x 41"  
- Large Roof Panel FSC - Box 4 - 47638756



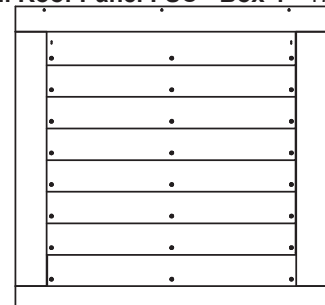
1pc. - [223] - 1-1/4 x 11-1/2 x 35-7/8"  
- B Transom FSC  
- Box 2 - 47638839



1pc. - [222] - 1-1/4 x 11-1/2 x 35-7/8"  
- F Transom FSC  
- Box 2 - 47638840

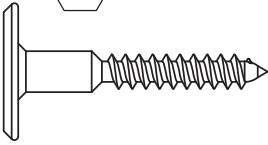


2pc. - [211] - 1-1/4 x 31-3/4 x 32-1/2"  
- Small Roof Panel FSC - Box 4 - 47638760

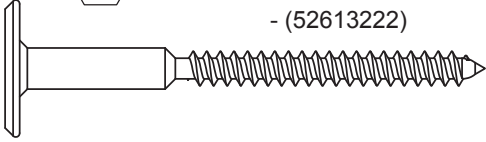


# Hardware Identification (Actual Size)

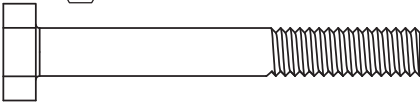
5pc. **WL3** - Wafer Lag 1/4 x 1-3/8" - (52613216)



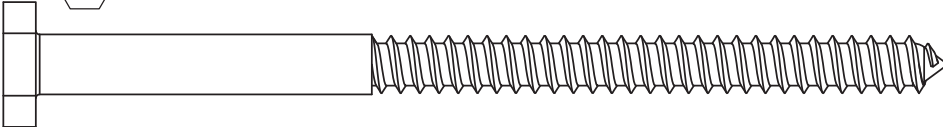
17pc. **WL5** - Wafer Lag 1/4 x 2-1/2"  
- (52613222)



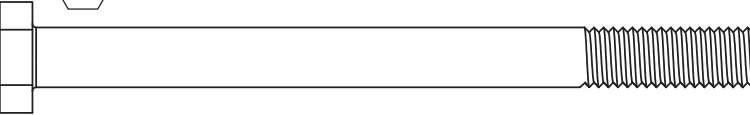
6pc. **H2** - Hex Bolt 1/4 x 2" - (53703220)



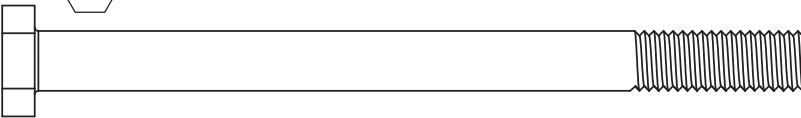
5pc. **LS9** - Lag Screw 5/16 x 4-3/4" - (52213343)



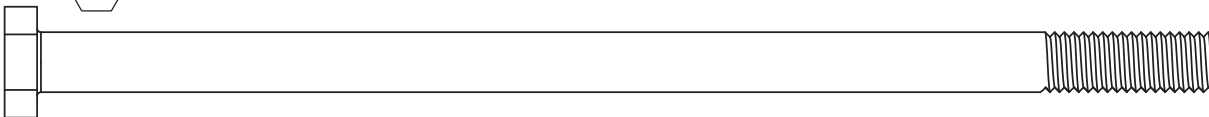
4pc. **G21** - Hex Bolt 5/16 x 3-3/4" - (53703333)



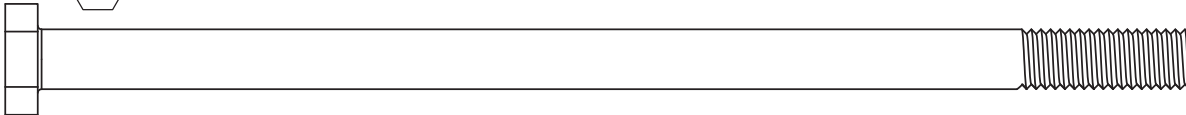
1pc. **G20** - Hex Bolt 3/8 x 4" - (53703840)



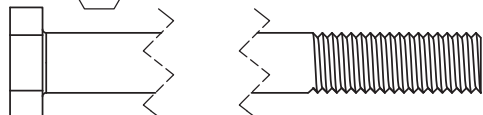
12pc. **G13** - Hex Bolt 5/16 x 6-1/8" - (53703364)



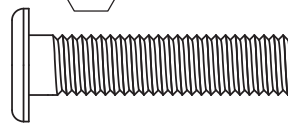
4pc. **G17** - Hex Bolt 3/8 x 6" - (53703860)



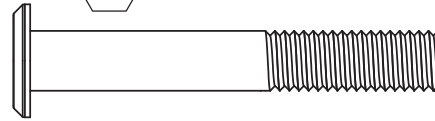
1pc. **G18** - Hex Bolt 3/8 x 9" - (53703890)



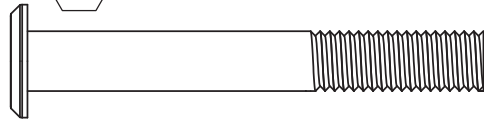
3pc. **WB2** - Wafer Bolt 5/16 x 1-3/8" - (53613316)



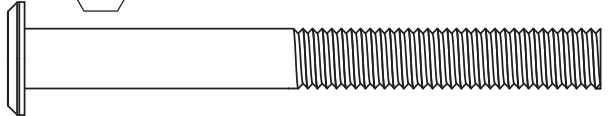
13pc. **WB9** - Wafer Bolt 5/16 x 2-1/8" - (53613324)



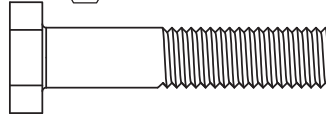
7pc. **WB8** - Wafer Bolt 5/16 x 2-3/8" - (53613326)



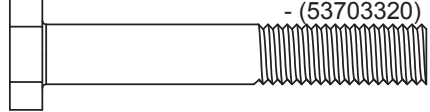
13pc. **WB7** - Wafer Bolt 5/16 x 3" - (53613330)



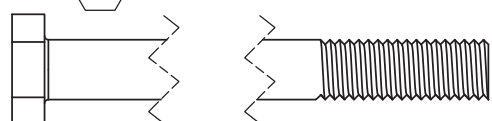
2pc. **G1** - Hex Bolt 5/16 x 1-1/2" - (53703312)



17pc. **G8** - Hex Bolt 5/16 x 2"  
- (53703320)



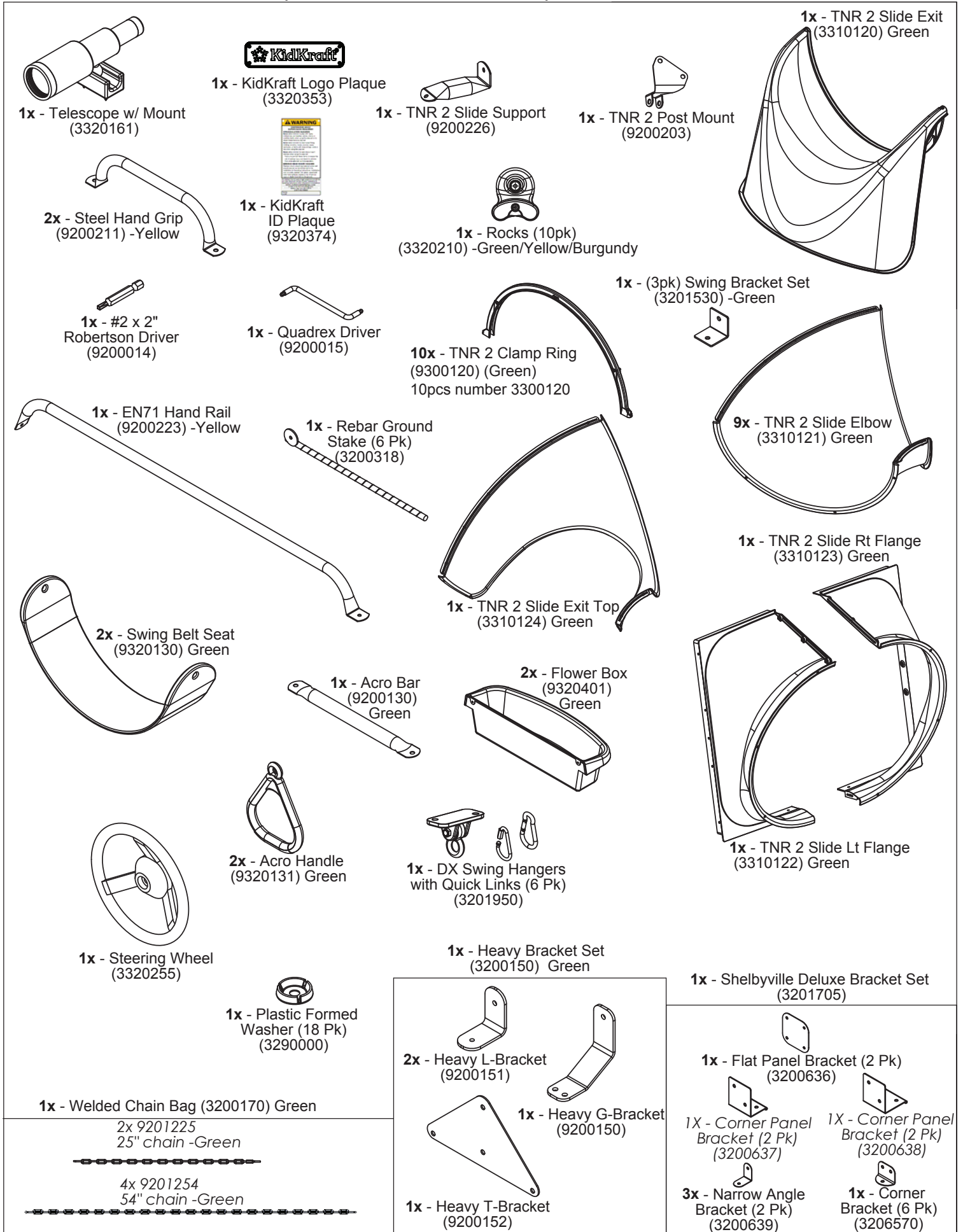
1pc. **G26** - Hex Bolt 3/8 x 9-1/4" - (53703891)



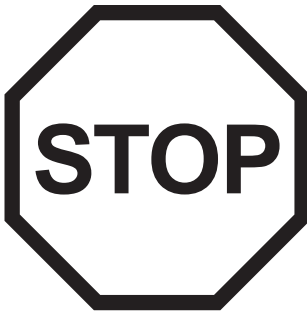
# Hardware Identification (Actual Size)

- 23pc. **LW2** - 5/16" Lock Washer - (51303300)    14pc. **FW0** - 3/16" Flat Washer - (51103100)    8pc. **TN1** - 1/4" T - Nut -(54503200)
- 18pc. **LW1** - 1/4" Lock Washer - (51303200)    14pc. **FW1** - 1/4" Flat Washer - (51103200)    59pc. **TN2** - 5/16" T- Nut - (54503300)
- 89pc. **LN1** - 1/4 Lock Nut - (9283200)    89pc. **FW2** - 5/16" Flat Washer - (51103300)    10pc. **BN1** - 1/4" Barrel Nut - (54803200)
- 12pc. **LN2** - 5/16" Lock Nut - (54303300)    14pc. **FW10** - 3/8" Flat Washer - (51103800)    8pc. **FW6** - #12 Screw Bezel - (9299500)
- 7pc. **LN3** - 3/8 Lock Nut - (54303800)    89pc. **PB1** - Pan Bolt 1/4 x 3/4" - (9274203)    4pc. **WH2** - Wafer Head Screw #12 x 1" - (52613610)
- 1pc. **PB6** - Pan Bolt 1/4 x 1" - (9274210)    13pc. **PB2** - Pan Bolt 1/4 x 1-1/4" - (53432212)    4pc. **S18** - Wood Screw #6 x 1" - (52013910)
- 22pc. **S13** - Pan Screw #6 x 5/8" - (52413908)    220pc. **S20** - Wood Screw #8 x 1-3/8" - (52043516)
- 14pc. **S10** - Pan Screw #8 x 1" - (52433510)    92pc. **S15** - Wood Screw #8 x 1-3/4" - (52043513)
- 36pc. **S8** - Pan Screw #12 x 3/4" - (52433603)    87pc. **S3** - Wood Screw #8 x 2-1/2" - (52043522)
- 15pc. **S6** - Pan Screw #12 x 1" - (9264610)    47pc. **S4** - Wood Screw #8 x 3" - (52043530)
- 10pc. **S7** - Pan Screw #12 x 2" - (52433620)    12pc. **TS** - Trim Screw #6 x 30mm - (52953911)

# Part Identification (Reduced Part Size)



# First Step: Inventory Parts - Read This Before Starting Assembly



- A.** This is the time for you to inventory all your hardware, wood and accessories, referencing the parts identification sheets. This will assist you with your assembly.
- The wood pieces will have the three digit key number stamped on the ends of the boards. The wood pieces are referenced throughout the instructions with this number.
  - Please refer to Page 6 for proper hardware assembly.
  - Each step indicates which bolts and/or screws you will need for assembly, as well as any flat washers, lock washers, t-nuts or lock nuts.
- B.** If there are any missing or damaged pieces or you need assistance with assembly please contact the Consumer Relations Department directly. Call us before going back to the store.
- 1.800.933.0771 or 972.385.0100**  
**customerservice@kidkraft.com**  
**canadacustomerservice@kidkraft.com**  
**For online parts replacement visit**  
**<https://parts.kidkraft.com/>**

**+31 20 305 8620**  
**europeservice@KidKraft.com**  
**For online parts replacement visit**  
**<https://parts.kidkraft.eu/>**
- C.** Read the assembly manual completely, paying special attention to ANSI warnings; notes; and safety/maintenance information on pages 1 - 6.
- D.** Before you discard your cartons fill out the form below.
- The carton I.D. stamp is located on the end of each carton. The tracking number is located on the KidKraft ID Plaque (9320374).
  - Please retain this information for future reference. You will need this information if you contact the Consumer Relations Department.

## MODEL NUMBER: F23175

CARTON I.D. STAMP: _ _ _ _ _ 14459 _ (Box 1)	CARTON I.D. STAMP: _ _ _ _ _ 14459 _ (Box 4)
CARTON I.D. STAMP: _ _ _ _ _ 14459 _ (Box 2)	CARTON I.D. STAMP: _ _ _ _ _ 14459 _ (Box 5)
CARTON I.D. STAMP: _ _ _ _ _ 14459 _ (Box 3)	CARTON I.D. STAMP: _ _ _ _ _ 14459 _ (Box 6)

TRACKING NUMBER (from ID Plaque): \_\_\_\_\_

# Step 1: Cafe Bench Assembly Part 1



**A:** Flush to the top of (011) Bench Leg Cafe place (010) Bench End Support Cafe, angled corners facing down and centred on the legs. Attach with 1 (H2) 1/4 x 2" Hex Bolt (with lock washer, flat washer and t-nut). Make sure the top of (010) Bench End Support Cafe is level then attach with 2 (S20) #8 x 1-3/8" Wood Screws as shown in fig. 1.1.

**B:** Flush to the outside edge of (011) Bench Leg Cafe attach (012) Bench Base Cafe with 2 (H2) 1/4 x 2" Hex Bolts (with lock washer, flat washer and t-nut) as shown in fig. 1.1.

**C:** Repeat Steps A and B to create a second Bench Leg Assembly so it is opposite to the first Bench Leg Assembly. (fig. 1.2)

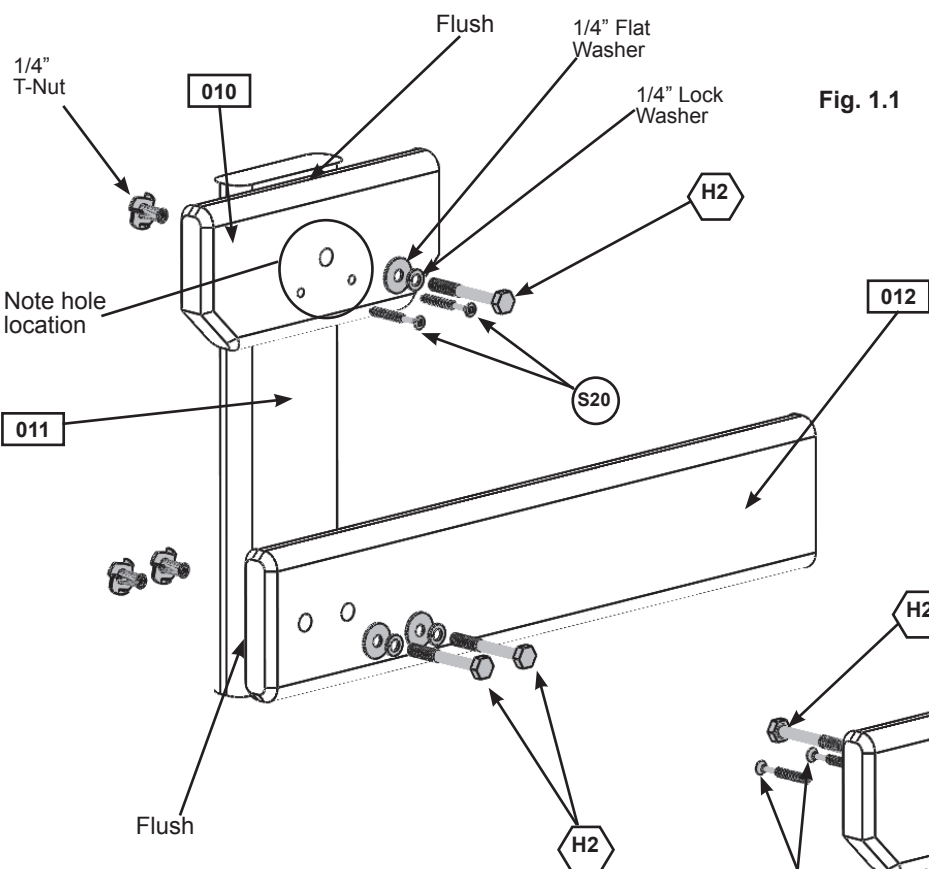


Fig. 1.1

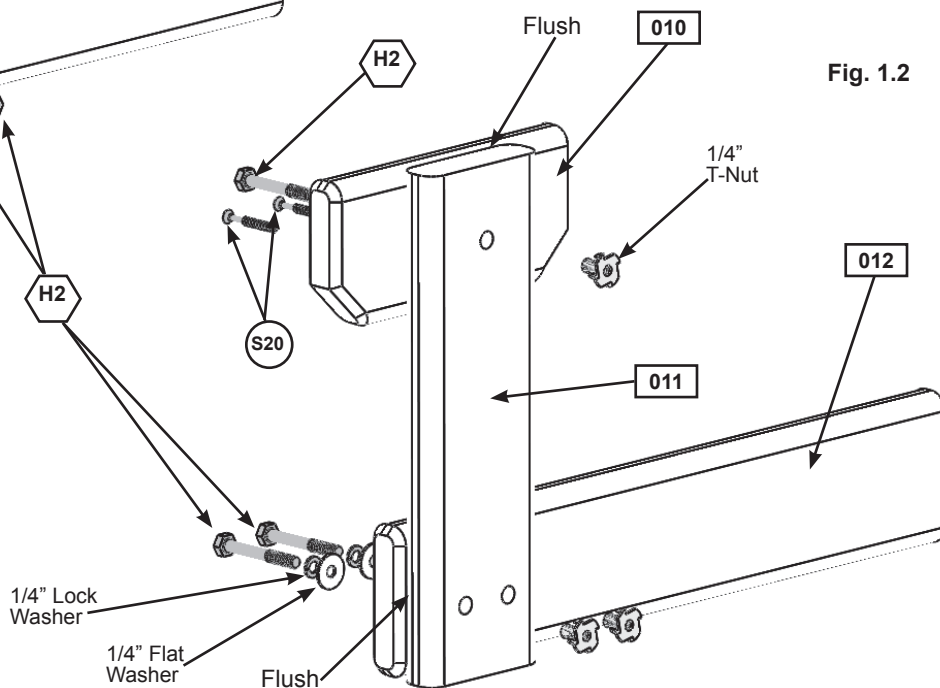


Fig. 1.2

## Wood Parts

- 2 x 010 Bench End Support Cafe FSC 5/4 x 4 x 7"
- 2 x 011 Bench Leg Cafe FSC 5/4 x 4 x 11"
- 2 x 012 Bench Base Cafe FSC 5/4 x 4 x 16"

## Hardware

- 6 x H2 1/4 x 2" Hex Bolt (1/4" lock washer, 1/4" flat washer, 1/4" t-nut)
- 4 x S20 #8 x 1-3/8" Wood Screw

# Step 1: Cafe Bench Assembly Part 2



**D:** Place 2 (013) Bench Top Cafes on both Bench Leg Assemblies so the ends on each side hang over by 1". Outside edges of each (013) Bench Top Cafe to be flush to outside edge of each (010) Bench End Support Cafe. Attach each (013) Bench Top Cafe to each (010) Bench End Support Cafe with 4 (S15) #8 x 1-3/4" Wood Screws per board. **Note: leave a gap of 1/2" minimum between boards on both ends.** (fig. 1.3 and 1.4)

**E:** Pre-drill with a 1/8" drill bit then attach, centred over the pilot holes of the (013) Bench Top Cafes place (014) Bench Brace Top underneath the boards. Attach with 4 (S15) #8 x 1-3/4" Wood Screws. (fig. 1.3 and 1.4)

Fig. 1.3

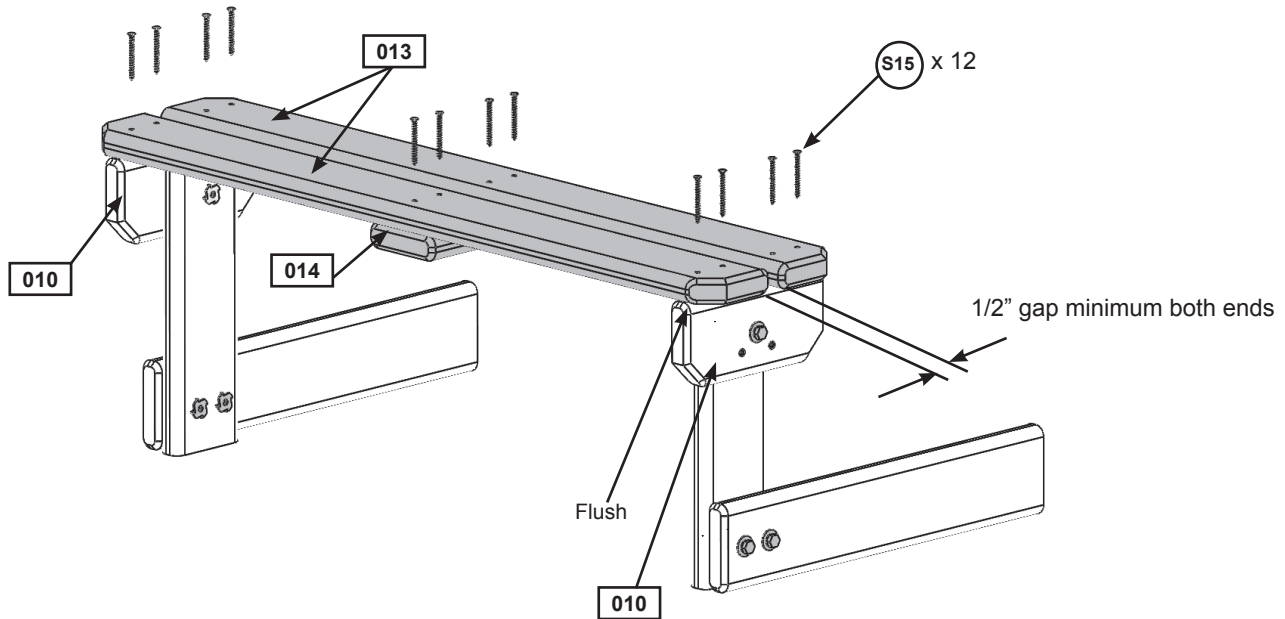
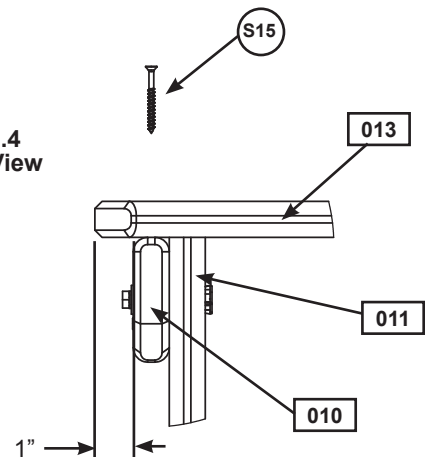


Fig. 1.4  
Side View



## Wood Parts

- 2 x 013 Bench Top Cafe FSC 5 x 4 x 31-7/16"
- 1 x 014 Bench Brace Top FSC 5 x 4 x 6-1/2"

## Hardware

- 12 x S15 #8 x 1-3/4" Wood Screw

# Step 1: Cafe Bench Assembly

## Part 3

**F:** Attach 2 Corner Brackets flush to the top and end of each (012) Bench Base Cafe on the inside using 2 (S13) #6 x 5/8" Pan Screws per bracket. (fig. 1.5, 1.6 and 1.7)

**G:** Attach 2 Corner Brackets flush to the bottom and end of each (012) Bench Base Cafe on the outside using 2 (S13) #6 x 5/8" Pan Screws per bracket. (fig. 1.5, 1.6 and 1.8)

Fig. 1.5

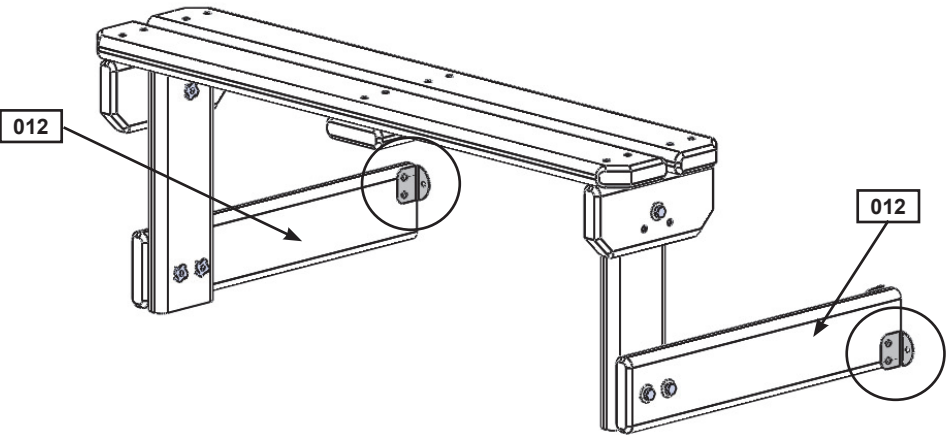


Fig. 1.7  
Inside

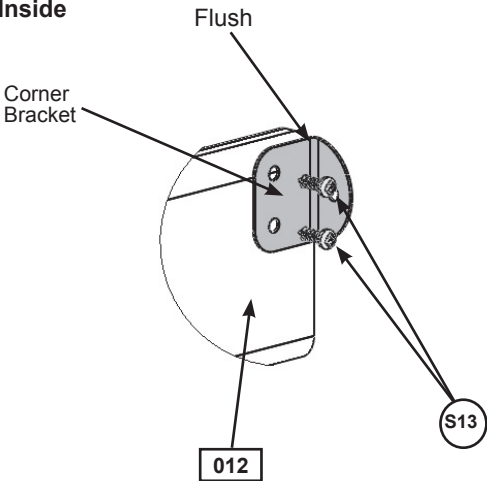


Fig. 1.8  
Outside

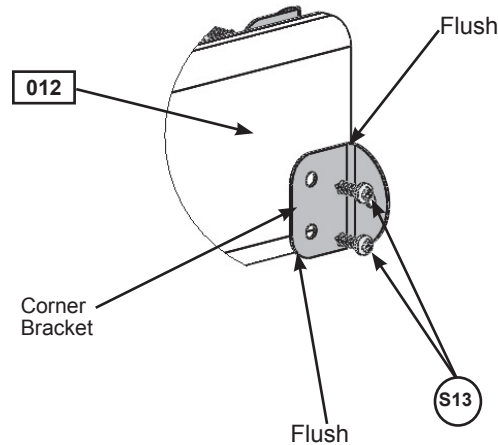
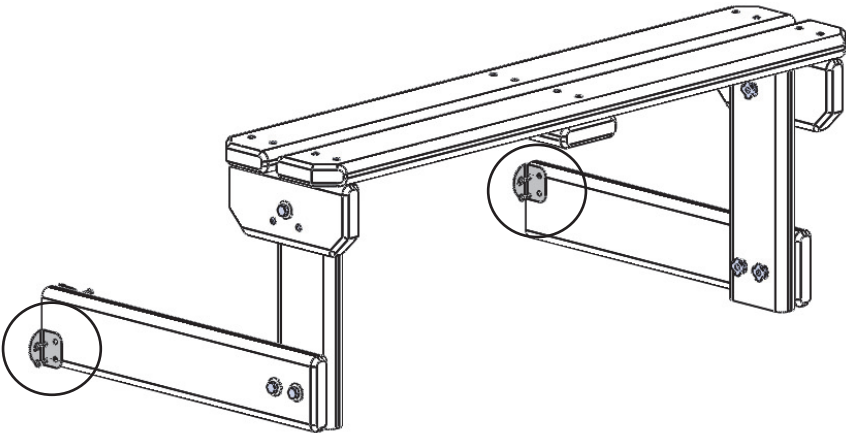


Fig. 1.6



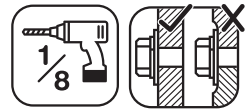
### Hardware

8 x  #6 x 5/8" Pan Screw

### Other Parts

4 x Corner Bracket

## Step 2: Access Ladder / Rockwall Assembly Part 1



**A:** Place (020) Left Access Rail on left hand side of 4 (022) Ladder Treads and (021) Right Access Rail on right hand side with the grooves facing in. (fig. 2.1)

**B:** Fit each (022) Ladder Tread into grooves on both (020) and (021) Access Rails, make sure the top edge of the treads are flush to the front of the Access rails. (fig. 2.1 and 2.2)

**C:** Pre-drill pilot holes with a 1/8" drill bit and attach Rails and Ladder Treads together using 4 (S3) #8 x 2-1/2" Wood Screws per tread. (fig. 2.1)

**D:** Attach Swing Brackets to the inside top of (020) and (021) Access Rails at angled edge using 1 (WB2) 5/16 x 1-3/8" Wafer Bolt (with flat washer and t-nut) per bracket. Edge of Swing Bracket is flush with edge of access rails. (fig. 2.1 and 2.3)

Fig. 2.1

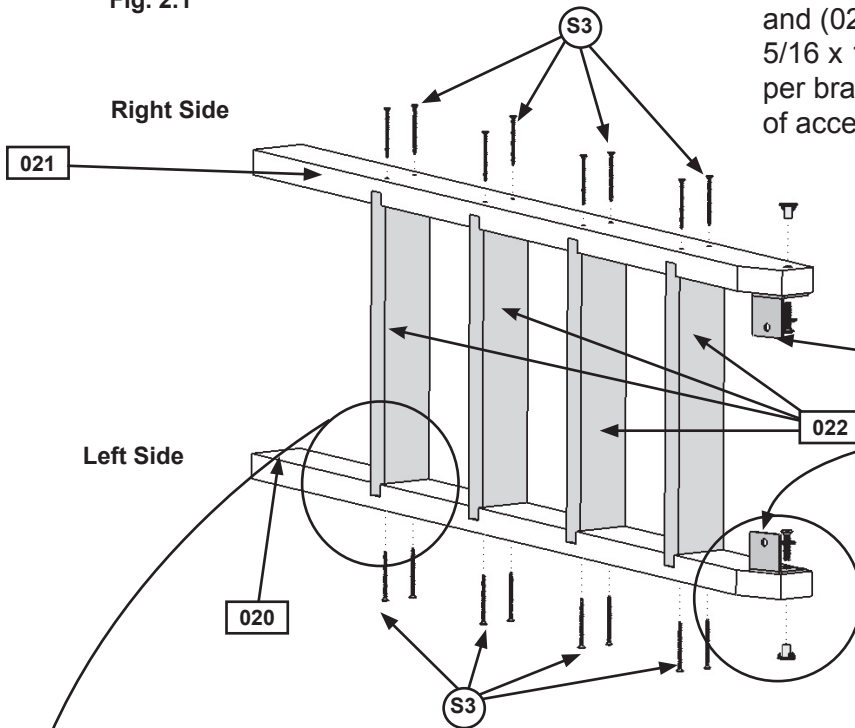


Fig. 2.2  
End View

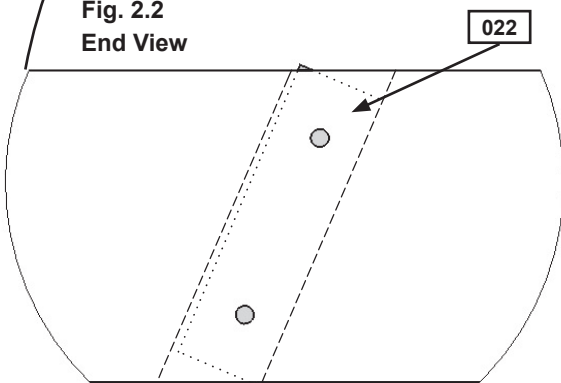
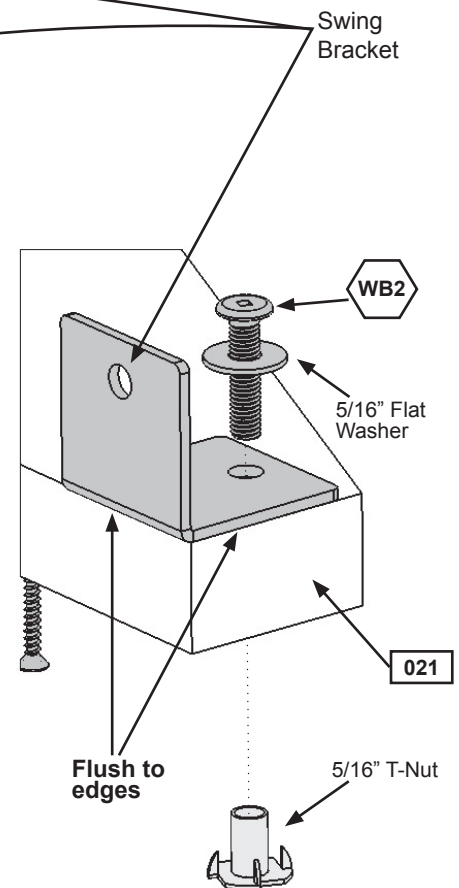


Fig. 2.3

Top of Ladder View



### Wood Parts

- 1 x 020 Left Access Rail FSC 2 x 4 x 62-7/8"
- 1 x 021 Right Access Rail FSC 2 x 4 x 62-7/8"
- 4 x 022 Ladder Tread FSC 5/4 x 4 x 13-3/4"

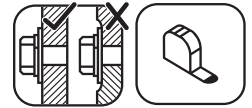
### Hardware

- 16 x S3 #8 x 2-1/2" Wood Screw
- 2 x WB2 5/16 x 1-3/8" Wafer Bolt (5/16" flat washer, 5/16" t-nut)

### Other Parts

- 2 x Swing Bracket

## Step 2: Access Ladder / Rockwall Assembly Part 2



**E:** Place (023) Ladder Gap on each access rail so there is a 2-3/8" gap between (023) Ladder Gap and the top (022) Ladder Tread. Attach using 4 (S20) #8 x 1-3/8" Wood Screws. (fig. 2.4 and 2.5)

**F:** Place (024) Rock Rail on the ground next to (021) Right Access Rail so it matches the orientation of the two access rails as shown in fig. 2.6. Attach (025) Top Ladder to top of Access Ladder assembly and (024) Rock Rail using 3 (S3) #8 x 2-1/2" Wood Screws. Notice that the holes in the board are towards the top and notched end is at (024) Rock Rail. (fig. 2.6)

**G:** Attach 1 Swing Bracket to the top angled edge of (024) Rock Rail, making sure the bracket faces out. Use 1 (WB2) 5/16 x 1-3/8" Wafer Bolt (with flat washer and t-nut). (fig. 2.6)

Fig. 2.4

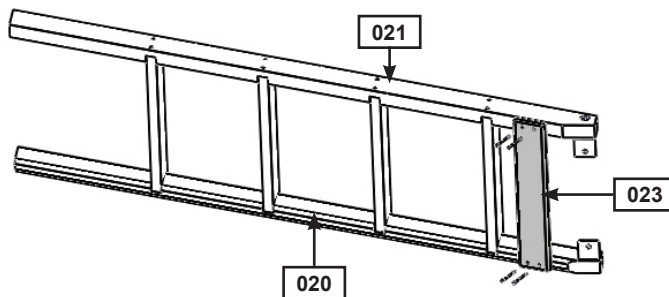


Fig. 2.5

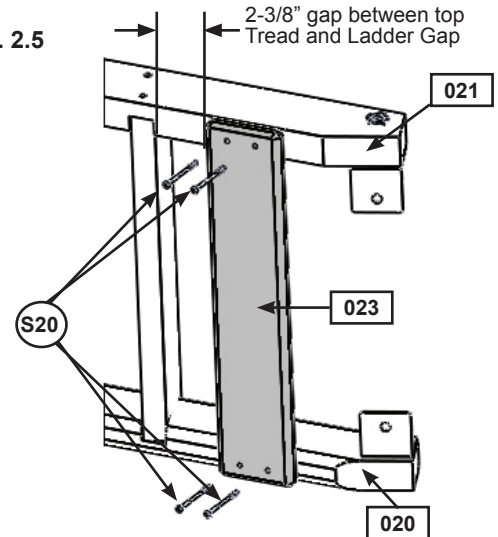
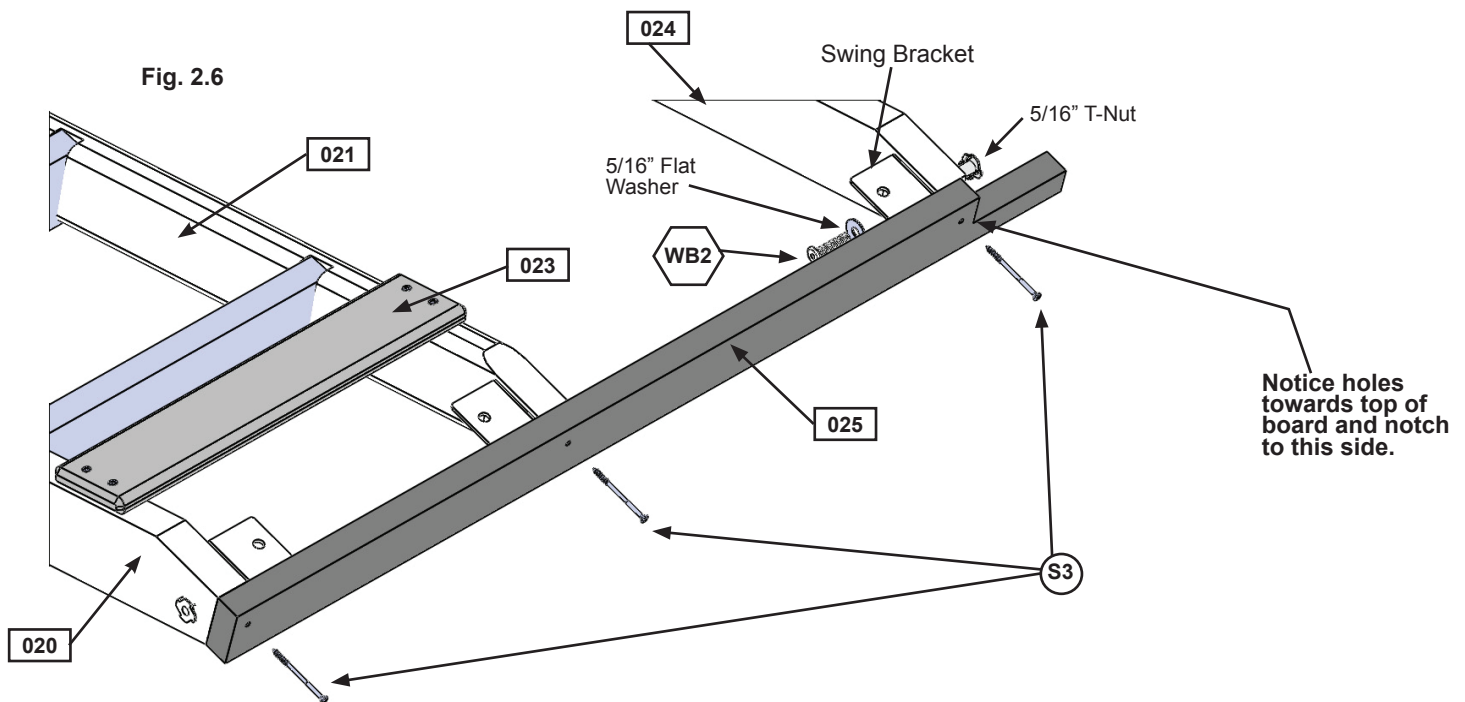


Fig. 2.6



### Wood Parts

- 1 x (023) Ladder Gap FSC 1 x 4 x 15"
- 1 x (024) Rock Rail FSC 2 x 4 x 62-7/8"
- 1 x (025) Top Ladder FSC 5/4 x 3 x 34-1/4"

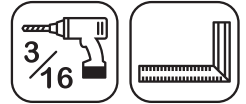
### Hardware

- 3 x (S3) #8 x 2-1/2" Wood Screw
- 1 x (WB2) 5/16 x 1-3/8" Wafer Bolt (5/16" flat washer, 5/16" t-nut)
- 4 x (S20) #8 x 1-3/8" Wood Screw

### Other Parts

- 1 x Swing Bracket

# Step 3: Rockwall Assembly Part 1



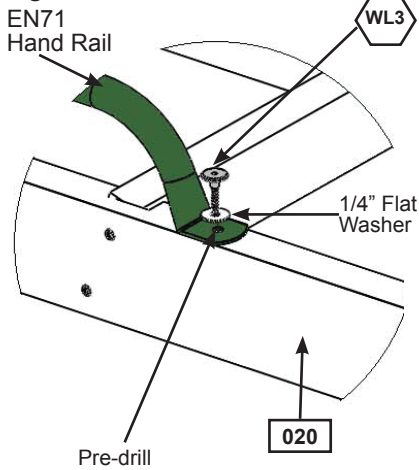
**A:** Place (030) Board Access at top of the Access Ladder/Rockwall Assembly and (031) Rock Bottom at the bottom of the assembly as shown in fig. 3.1. Then place (032) Rock Board A, (033) Rock Board B, (034) Rock Board C and (035) Rock Board D as shown in fig. 3.1. Do not screw boards down yet. Rock holes are to be staggered so they do not form a straight line and are at the top of the boards. **Note: Rock Boards are to be flush to (021) Right Access Rail and pilot holes are centred over (024) Rock Rail. (fig. 3.1)**

**B:** Make sure all boards fit together snugly and the assembly is square, then attach (030) Board Access and (031) Rock Bottom using 4 (S20) #8 x 1-3/8" Wood Screws per board. (fig. 3.1)

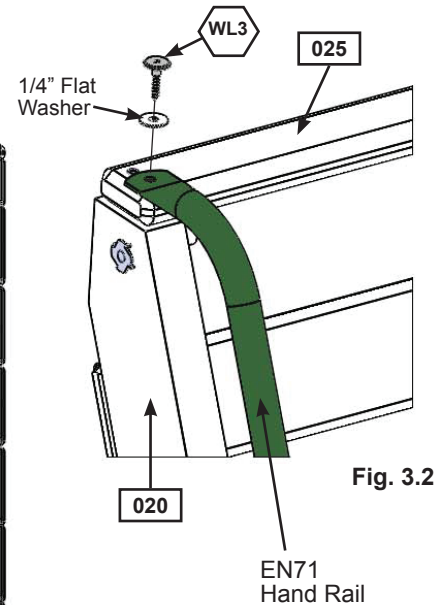
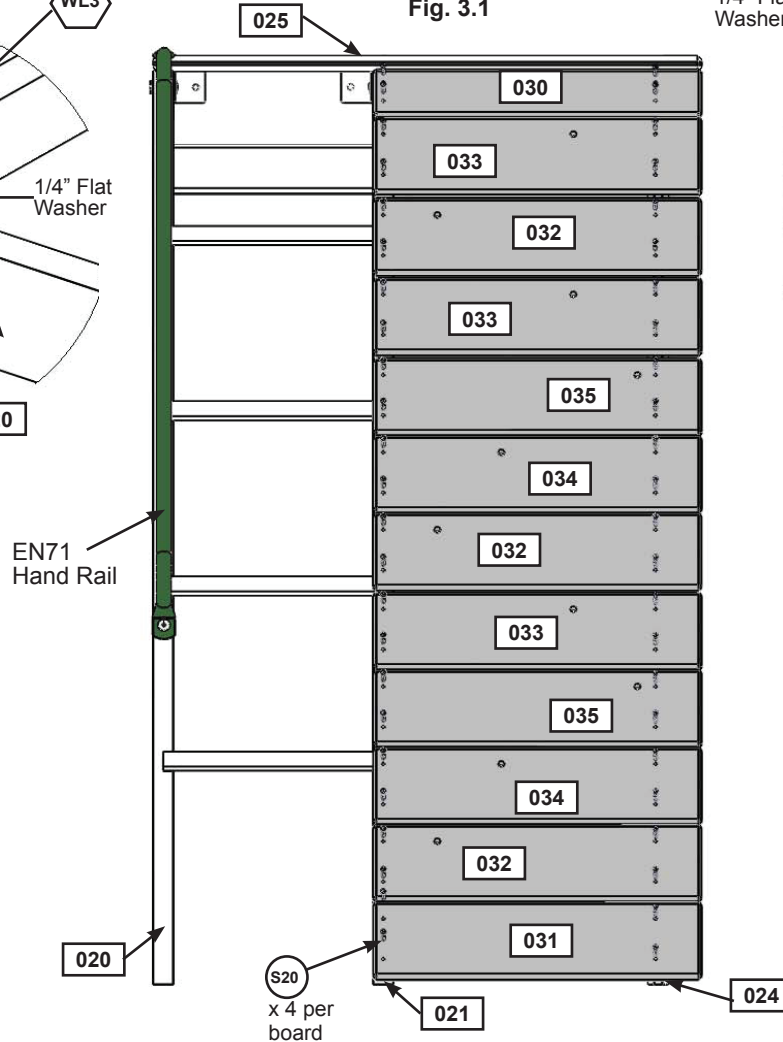
**C:** Fasten all the other boards with 4 (S20) #8 x 1-3/8" Wood Screws per board. (fig. 3.1)

**D:** Place EN71 Hand Rail over remaining pilot hole on (025) Top Ladder and on (020) Left Access Rail. **Pre-drill hole in (020) Left Access Rail using a 3/16" drill bit** then attach EN71 Hand Rail using 2 (WL3) 1/4 x 1-3/8" Wafer Lags (with flat washer). (fig. 3.2 and 3.3)

**Fig. 3.3**



**Fig. 3.1**



**Fig. 3.2**

**IMPORTANT!**  
Follow hole  
pattern

## Wood Parts

1 x (030) Board Access FSC 1 x 4 x 20-1/2"	2 x (034) Rock Board C FSC 1 x 6 x 20-1/2"
1 x (031) Rock Bottom FSC 1 x 6 x 20-1/2"	2 x (035) Rock Board D FSC 1 x 6 x 20-1/2"
3 x (032) Rock Board A FSC 1 x 6 x 20-1/2"	
3 x (033) Rock Board B FSC 1 x 6 x 20-1/2"	

## Hardware

48 x (S20) #8 x 1-3/8" Wood Screw
2 x (WL3) 1/4 x 1-3/8" Wafer Lag (1/4" flat washer)

## Other Parts

1 x EN71 Hand Rail
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## Step 3: Rockwall Assembly Part 2

**E:** Alternating colours and shapes, attach 1 rock to each rock board using 1 (PB2) 1/4 x 1-1/4" Pan Bolt (with lock washer, flat washer and barrel nut) and 1 (S10) #8 x 1" Pan Screw per rock. (fig. 3.4 and 3.5)

The Pan Screw is placed in the hole beneath the Pan Bolt. (fig. 3.4 and 3.5)

**Note:** Make sure all hardware is used to secure each rock properly.

Fig. 3.4

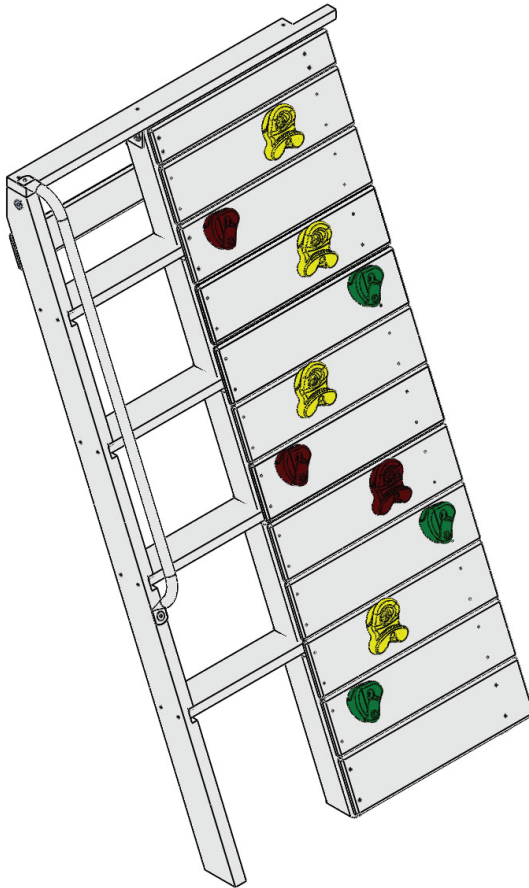
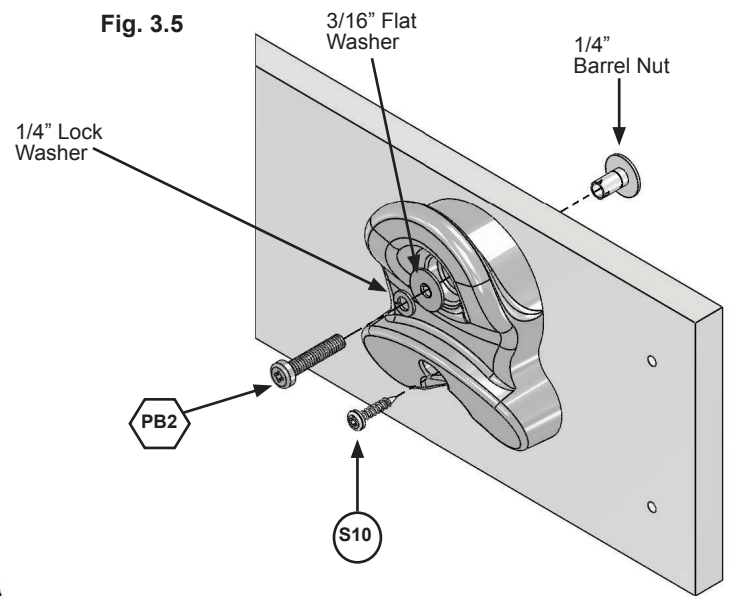



Fig. 3.5



### Hardware

- 10 x  1/4 x 1-1/4 Pan Bolt  
(1/4" lock washer, 3/16" flat washer & 1/4" barrel nut)
- 10 x  #8 x 1" Pan Screw

### Other Parts

- 10 x Rocks (green/yellow/burgundy)



**B:** Attach each (041) Window Shutter to (040) Wall Cafe Window Panel with 3 (TS) #6 x 30 mm Trim Screws per shutter. (fig. 4.2) **Note: 2 outer Shutters need to be flush to outside edge of panel. (fig.4.2)**

Technical drawing of a window shutter assembly. The drawing shows two shutters, each with a 2x2 grid of panes. The shutters are mounted on a frame. Key features and dimensions include:

- Dimensions:**
  - Shutter height: 11"
  - Shutter width: 11"
- Callouts:**
  - TS**: x 3 per Window Shutter (Top Stop)
  - Flush**: Indicated at the top and bottom edges of the shutters.
  - 041**: A callout box with arrows pointing to the mounting hardware on the side of the shutters.

1 x **040** Wall Cafe Window Panel FSC 1-1/4 x 35-1/2 x 99"  
4 x **041** Window Shutter FSC 5/8 x 3 x 15"

12 x (TS) #6 x 30 mm Trim Screw

## Step 4: Panel Preparation Part 2



**C:** Place (044) SW Wall at the top of the front of (043) SW Side Panel and attach with 4 (G21) 5/16 x 3-3/4" Hex Bolts (with lock washer, flat washer and t-nut). (fig. 4.3 and 4.4)

Fig. 4.3

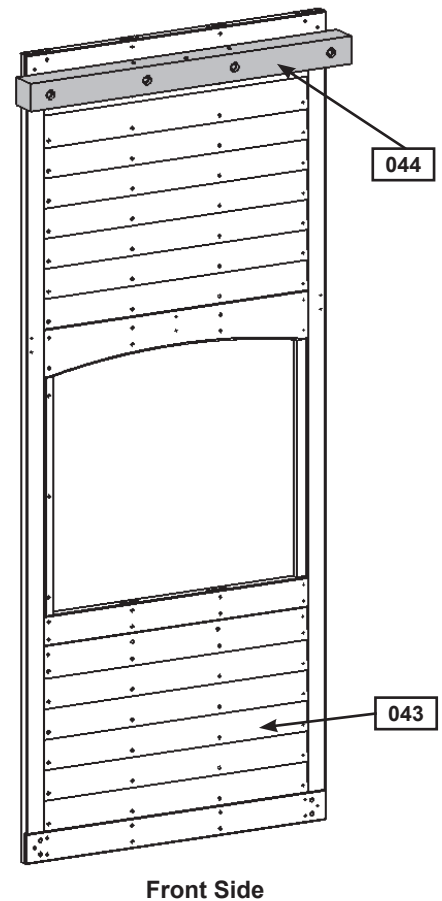
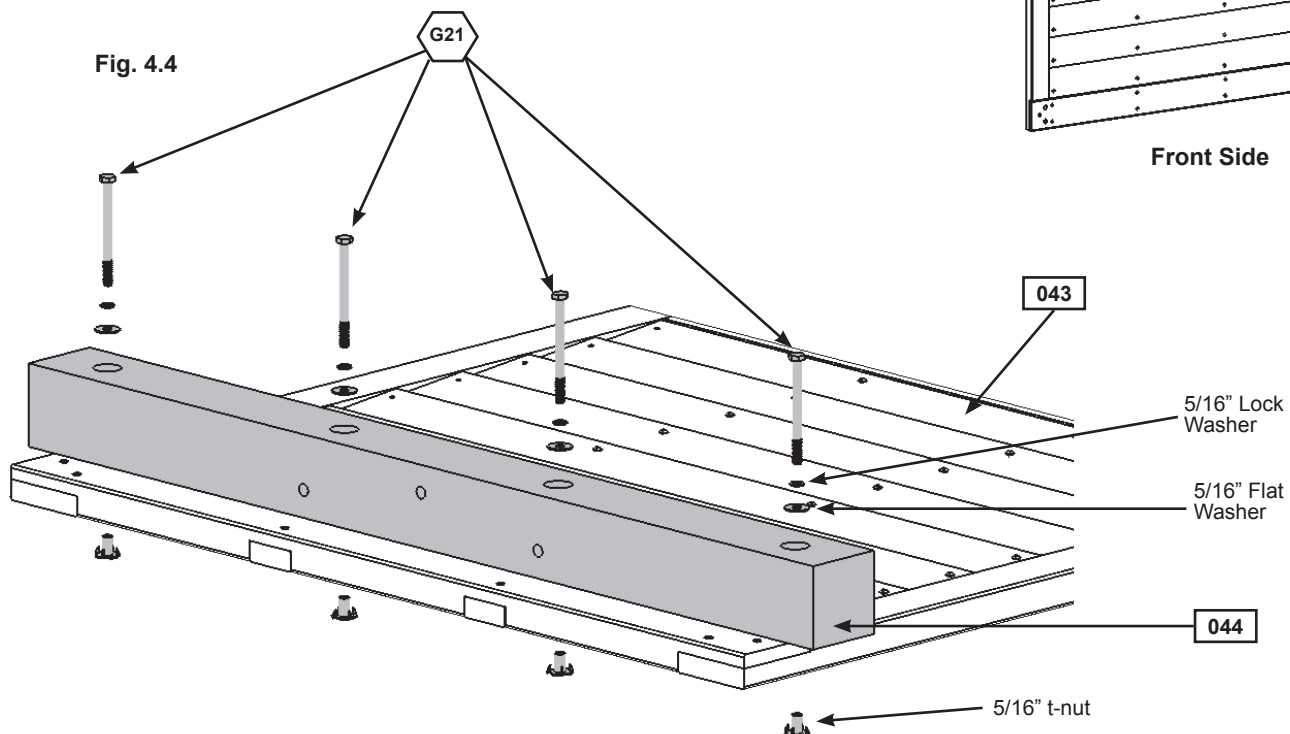


Fig. 4.4



### Wood Parts

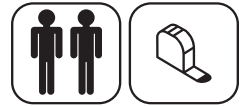
1 x 043 SW Side Panel FSC 1-1/4 x 36 x 87-1/4"

1 x 044 SW Wall FSC 4 x 4 x 38-1/2"

### Hardware

4 x G21 5/16 x 3-3/4" Hex Bolt  
(5/16" lock washer, 5/16" flat washer & 5/16" t-nut)

## Step 5: Swing Side Wall Assembly Part 1



**A:** Place 1 (050) Narrow Window Panel on the ground. Measure 3-1/4" up from the bottom of the panel on the right side and attach a 2 x 2-1/4" Corner Panel Bracket to the panel with 2 (S8) #12 x 3/4" Pan Screws. The flat edge of the bracket must be facing up and it must be installed on the correct side. (fig. 5.1 and 5.2)

**B:** Measure 78" from the bottom of (050) Narrow Window Panel and attach a second 2 x 2-1/4" Corner Panel Bracket with 2 (S8) #12 x 3/4" Pan Screws. The flat edge of the bracket must be facing up and it must be installed on the correct side. (fig. 5.1 and 5.2)

**Note:** Bottom of 2 x 2-1/4" Corner Panel Bracket must sit at 78".

**C:** With a helper hold (043) SW Side Panel up against the right side edge of (050) Narrow Window Panel so the bottom edges are flush. Attach both Corner Panel Brackets to (043) SW Side Panel with 2 (S8) #12 x 3/4" Pan Screws per bracket. (fig. 5.1 and 5.2)

Fig. 5.1

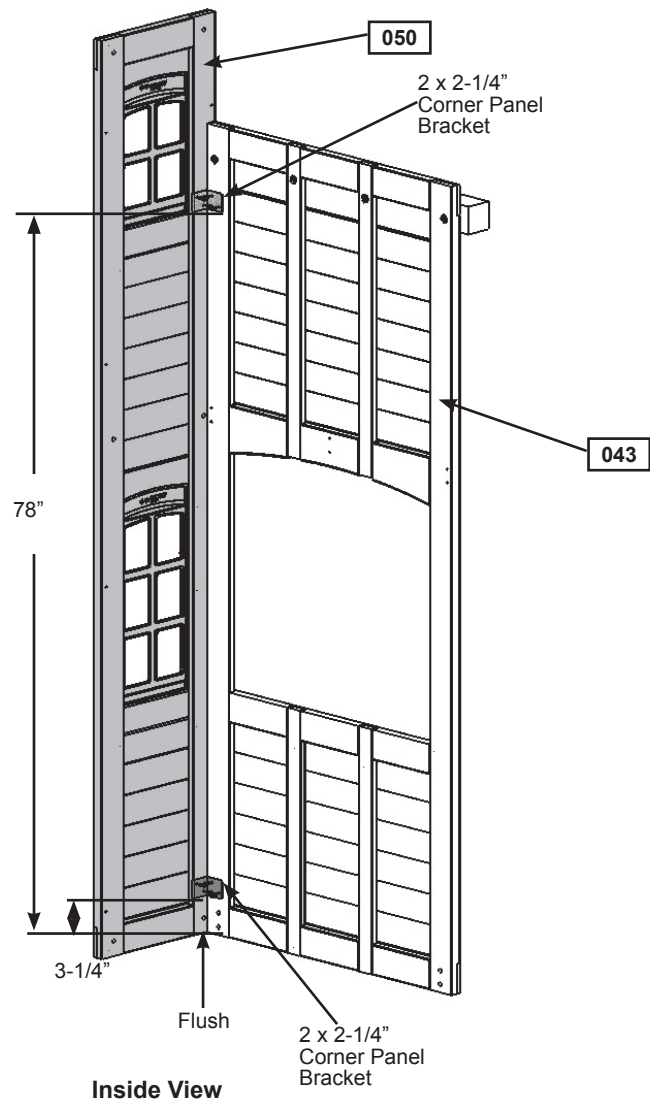
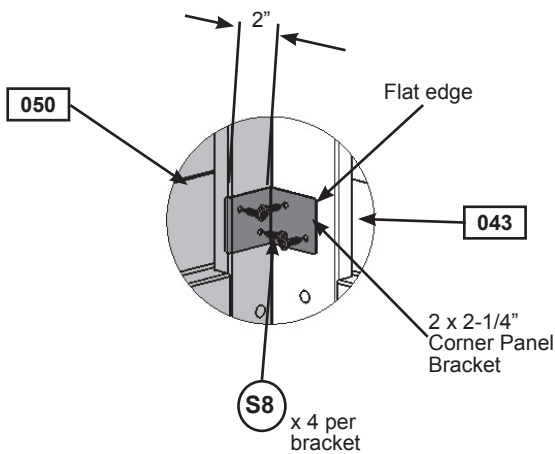


Fig. 5.2



### Wood Parts

1 x 050 Narrow Window Panel FSC 1-1/4 x 16-3/4 x 99"

### Hardware

8 x S8 #12 x 3/4" Pan Screw

### Other Parts

2 x 2 x 2-1/4" Corner Panel Bracket

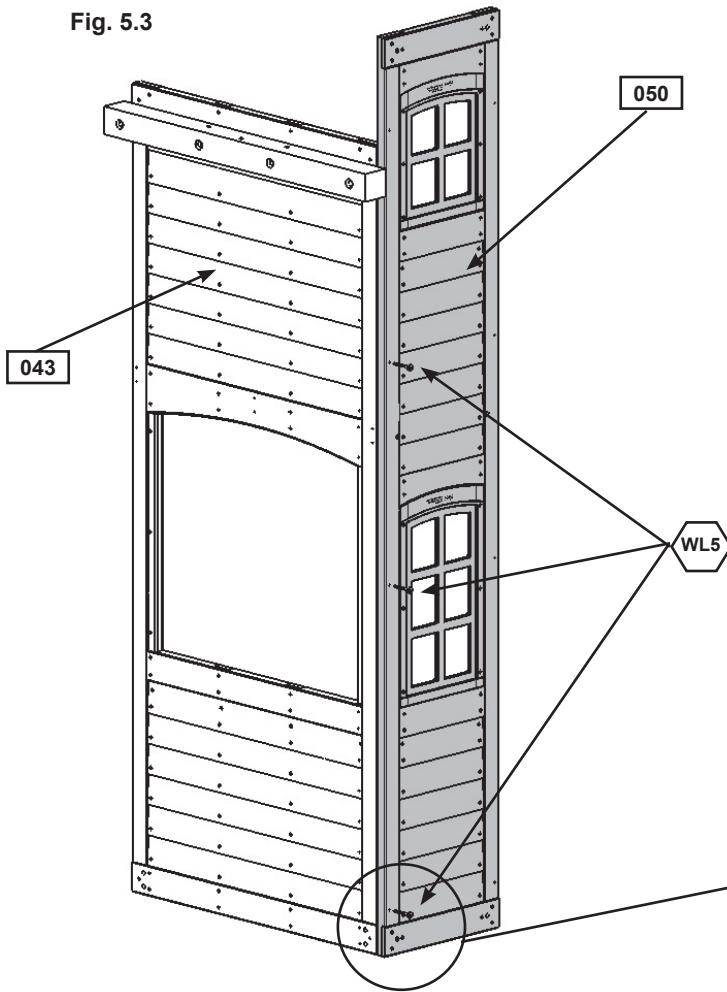
## Step 5: Swing Side Wall Assembly Part 2



**Note:** Make sure panels are square and flush to each other.

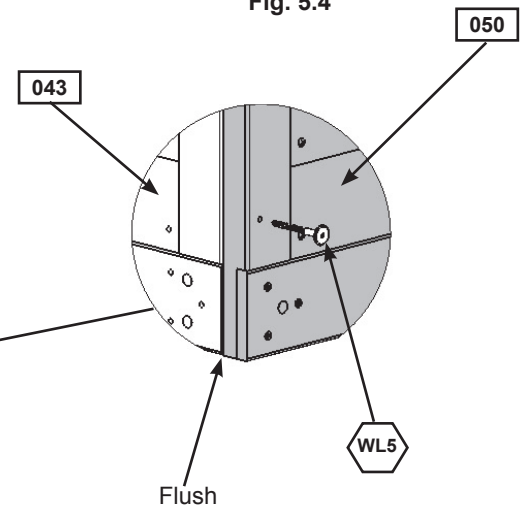
**D:** Pre-drill with a 3/16" drill bit, then fasten the (050) Narrow Window Panel to (043) SW Side Panel with 3 (WL5) 1/4 x 2-1/2" Wafer Lags. (fig. 5.3 and 5.4)

Fig. 5.3




Outside View

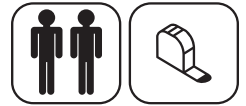
Fig. 5.4



### Hardware

3 x  1/4 x 2-1/2" Wafer Lag

## Step 5: Swing Side Wall Assembly Part 3



**E:** Place (051) SL Window Side Panel on the ground. Measure 3-1/4" up from the bottom of the panel on the left side and attach a 1-1/2 x 2-1/4" Corner Panel Bracket to the panel with 2 (S8) #12 x 3/4" Pan Screws. The flat edge of the bracket must be facing up and it must be installed on the correct side. (fig. 5.5 and 5.6)

**F:** Measure 49" from the bottom of (051) SL Window Side Panel and attach a second 1-1/2 x 2-1/4" Corner Panel Bracket with 2 (S8) #12 x 3/4" Pan Screws. The flat edge of the bracket must be facing up and it must be installed on the correct side. (fig. 5.5 and 5.6)

**Note:** Bottom of 1-1/2 x 2-1/4" Corner Panel Bracket must sit at 49".

**G:** With a helper hold (051) SL Window Side Panel up against the right side edge of (043) SW Side Panel so the bottom edges are flush. Attach both Corner Panel Brackets to (043) SW Side Panel with 2 (S8) #12 x 3/4" Pan Screws per bracket. (fig. 5.5 and 5.6)

Fig. 5.5

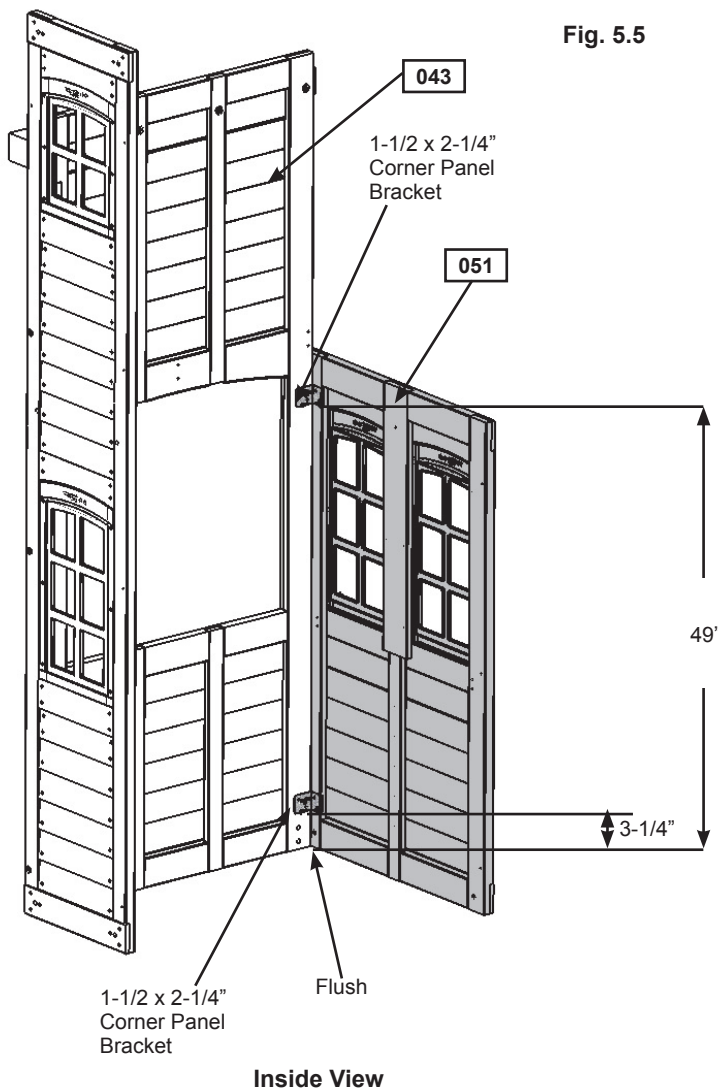
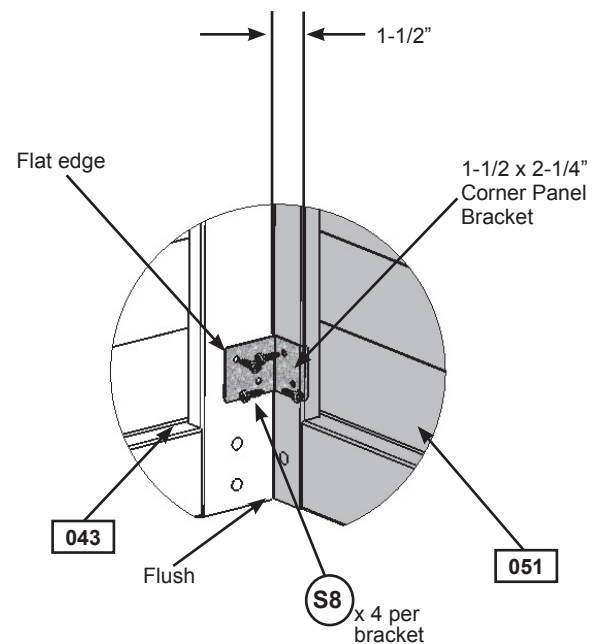


Fig. 5.6



### Wood Parts

1 x (051) SL Window Side Panel FSC 1-1/4 x 30 x 54-1/8"

### Hardware

8 x (S8) #12 x 3/4" Pan Screw

### Other Parts

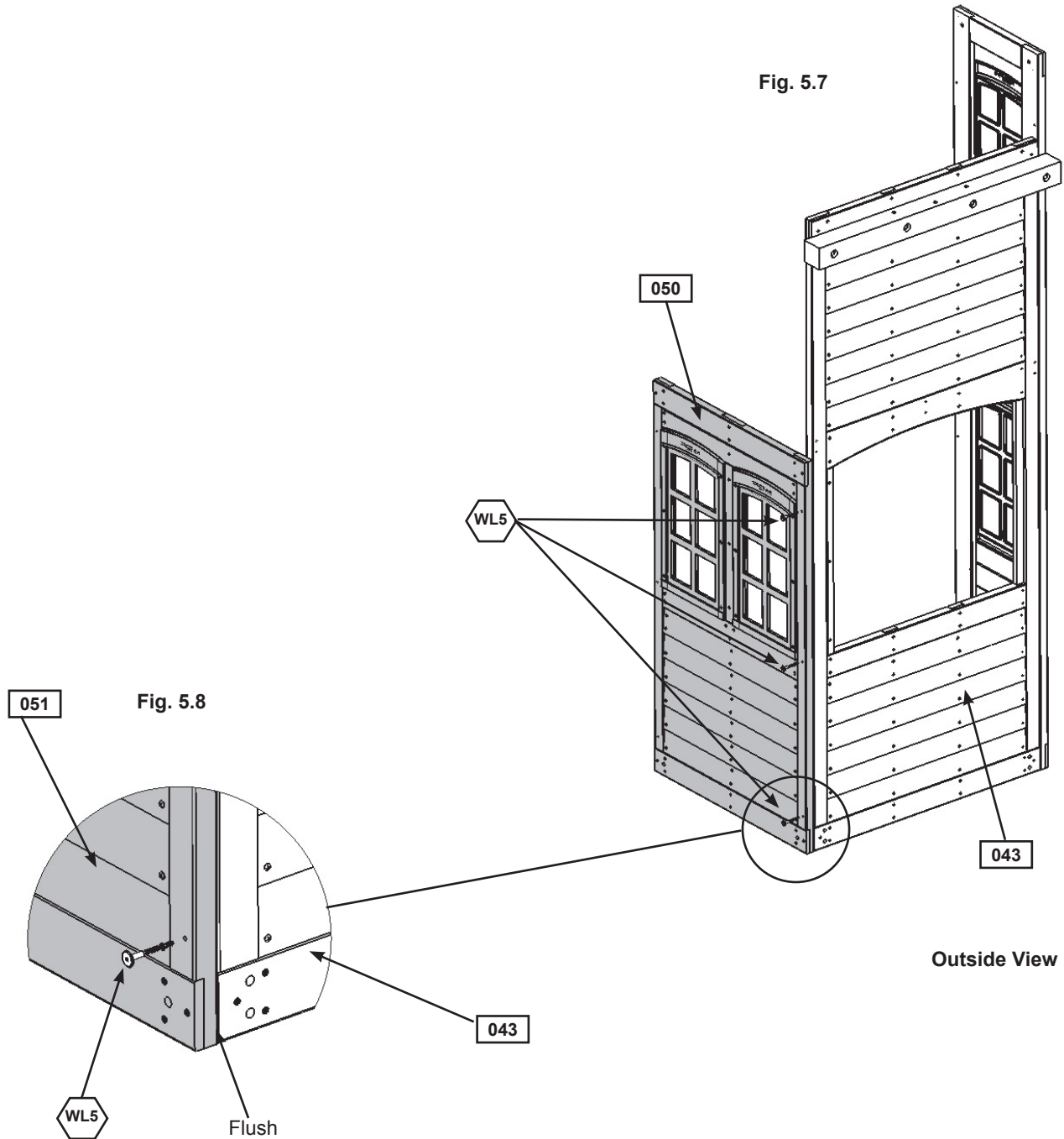
2 x 1-1/2 x 2-1/4" Corner Panel Bracket

## Step 5: Swing Side Wall Assembly Part 4




**Note:** Make sure panels are square and flush to each other.

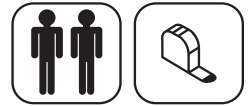
**H:** Pre-drill with a 3/16" drill bit, then fasten the (051) SL Window Side Panel to (043) SW Side Panel with 3 (WL5) 1/4 x 2-1/2" Wafer Lags. (fig. 5.7 and 5.8)



### Hardware

3 x  1/4 x 2-1/2" Wafer Lag

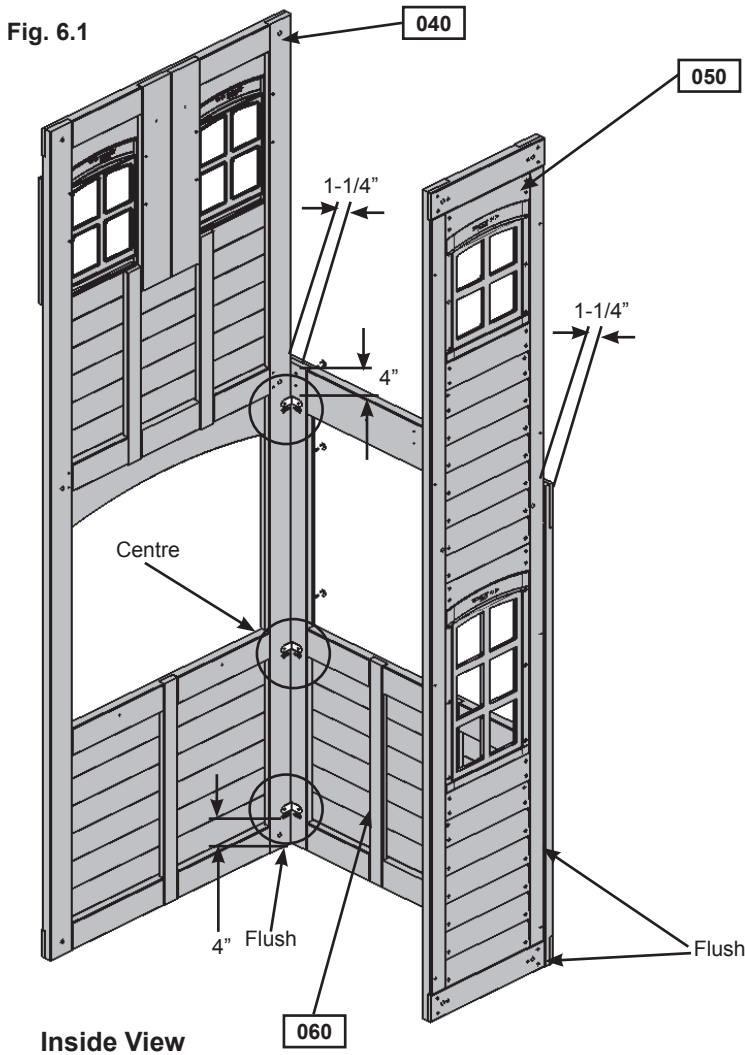
# Step 6: Crowsnest Side Wall Assembly Part 1



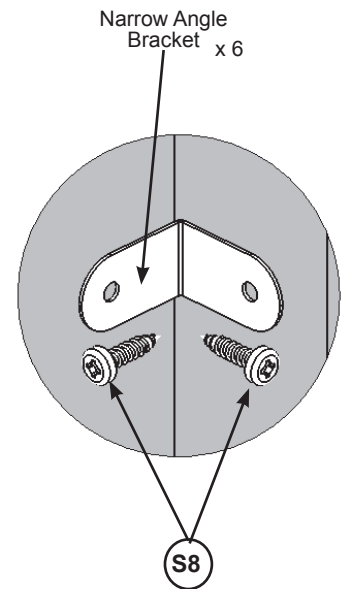
**A:** On both sides of (060) SL Panel measure 1-1/4" in from each edge, 4" up from the bottom, and 4" down from the top and attach one Narrow Angle Bracket at each location with 1 (S8) #12 x 3/4" Pan Screw per bracket. Centre 1 more Narrow Angle Bracket on each side and attach with 1 (S8) #12 x 3/4" Pan Screw per bracket. (fig. 6.1 and 6.2)

**B:** With a helper on the right hand side of (060) SL Panel place (050) Narrow Window Panel on top of (060) SL Panel flush to the outside and bottom edges as shown in fig. 6.1. Attach Narrow Angle Brackets to (050) Narrow Window Panel with 1 (S8) #12 x 3/4" Pan Screw per bracket. (fig. 6.1 and 6.2)

**C:** With a helper place (040) Wall Cafe Window Panel, from Step 4 on top of (060) SL Panel on the other side so it is flush to the bottom and outside edges. Attach to each Narrow Angle Bracket with 1 (S8) #12 x 3/4" Pan Screw per bracket. (fig. 6.1 and 6.2)



**Fig. 6.2**



## Wood Parts

- 1 x (060) SL Panel FSC 1-1/4 x 38-1/2 x 57-3/8"
- 1 x (050) Narrow Window Panel FSC 1-1/4 x 16-3/4 x 99"

## Hardware

- 12 x (S8) #12 x 3/4" Pan Screw

## Other Parts

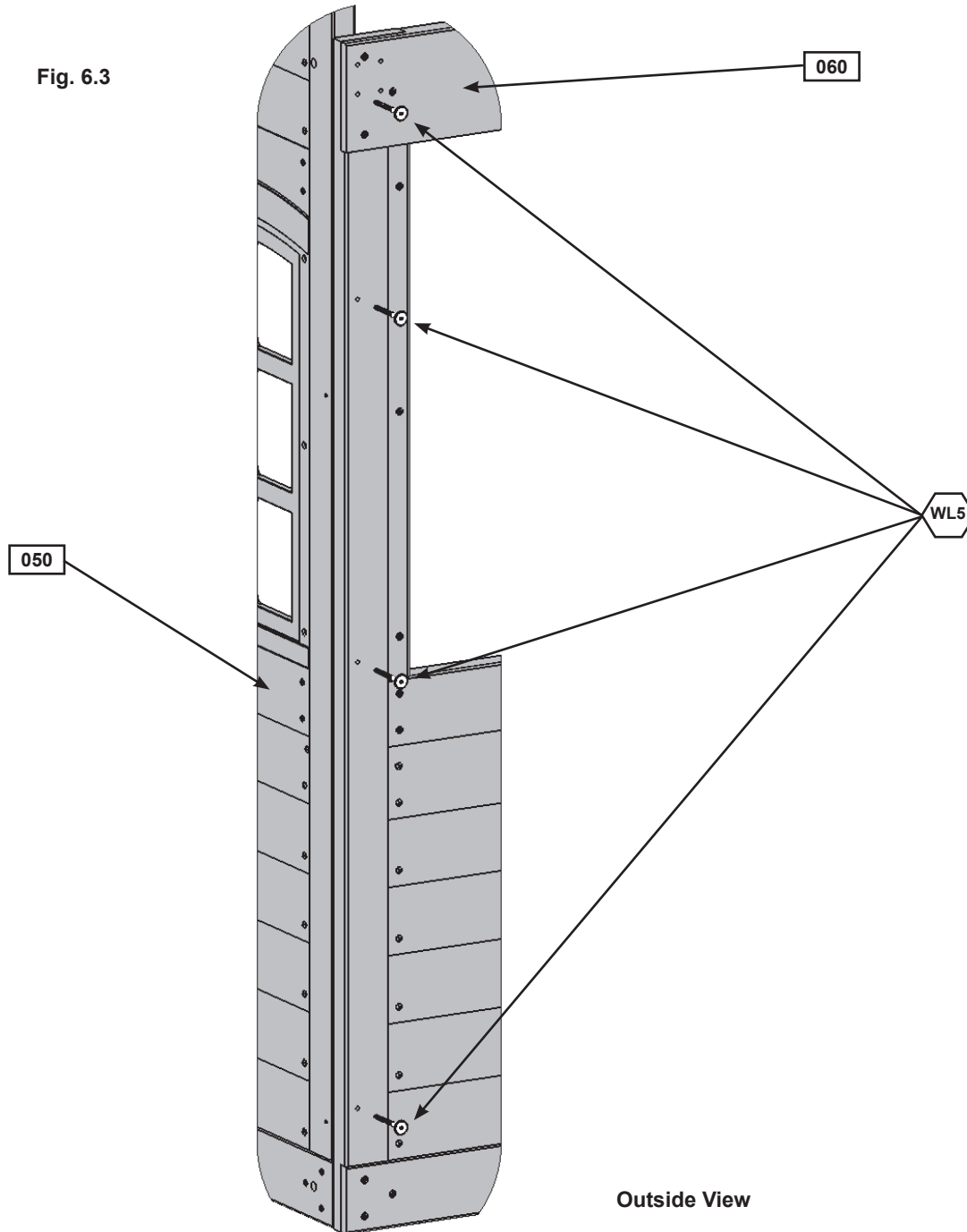
- 6 x Narrow Angle Bracket

## Step 6: Crowsnest Side Wall Assembly Part 2




**Note:** Make sure panels are square and flush to each other.

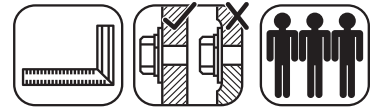
**D:** Pre-drill with a 3/16" drill bit, then fasten the (050) Narrow Window Panel and (040) Wall Cafe Window Panel to (060) SL Panel with 4 (WL5) 1/4 x 2-1/2" Wafer Lags per side. (fig. 6.3)



### Hardware

8 x  1/4 x 2-1/2" Wafer Lag

# Step 7: Front Wall Assembly Part 1

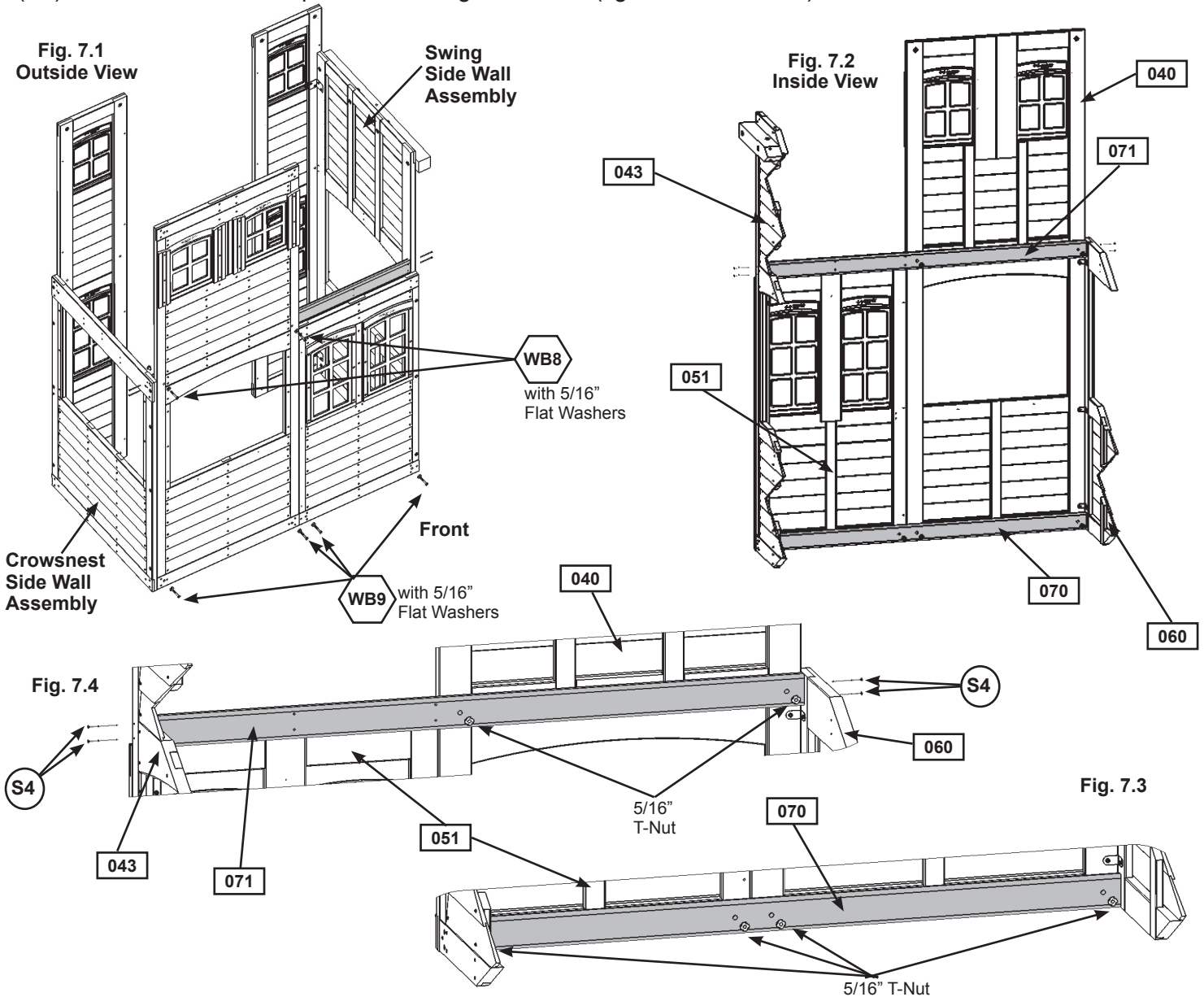


**A:** With at least two helpers lift the Crowsnest Side Wall Assembly and Swing Side Wall Assembly so the (040) Wall Cafe Window Panel and (051) SL Window Side Panel meet and are tight together as shown in fig. 7.1 and 7.2.

**B:** Loosely attach (070) Front Ground to (051) SL Window Side Panel and (040) Wall Cafe Window Panel with 4 (WB9) 5/16 x 2-1/8" Wafer Bolts (with flat washer and t-nut) as shown in fig. 7.1, 7.2 and 7.3.

**C:** Loosely attach (071) Front Floor to (040) Wall Cafe Window Panel with 2 (WB8) 5/16 x 2-3/8" Wafer Bolts (with flat washer and t-nut) as shown in fig. 7.1, 7.2 and 7.4.

**D:** Make sure the assembly is square then attach (060) SL Panel and (043) SW Side Panel to (071) Front Floor with 2 (S4) #8 x 3" Wood Screws per side then tighten bolts. (fig. 7.1, 7.2 and 7.4)



## Wood Parts

- 1 x 070 Front Ground FSC 5/4 x 4 x 64-1/4"
- 1 x 071 Front Floor FSC 2 x 4 x 64-1/4"

## Hardware

- 2 x WB8 5/16 x 2-3/8" Wafer Bolt (5/16" flat washer, 5/16" t-nut)
- 4 x WB9 5/16 x 2-1/8" Wafer Bolt (5/16" flat washer, 5/16" t-nut)
- 4 x S4 #8 x 3" Wood Screw

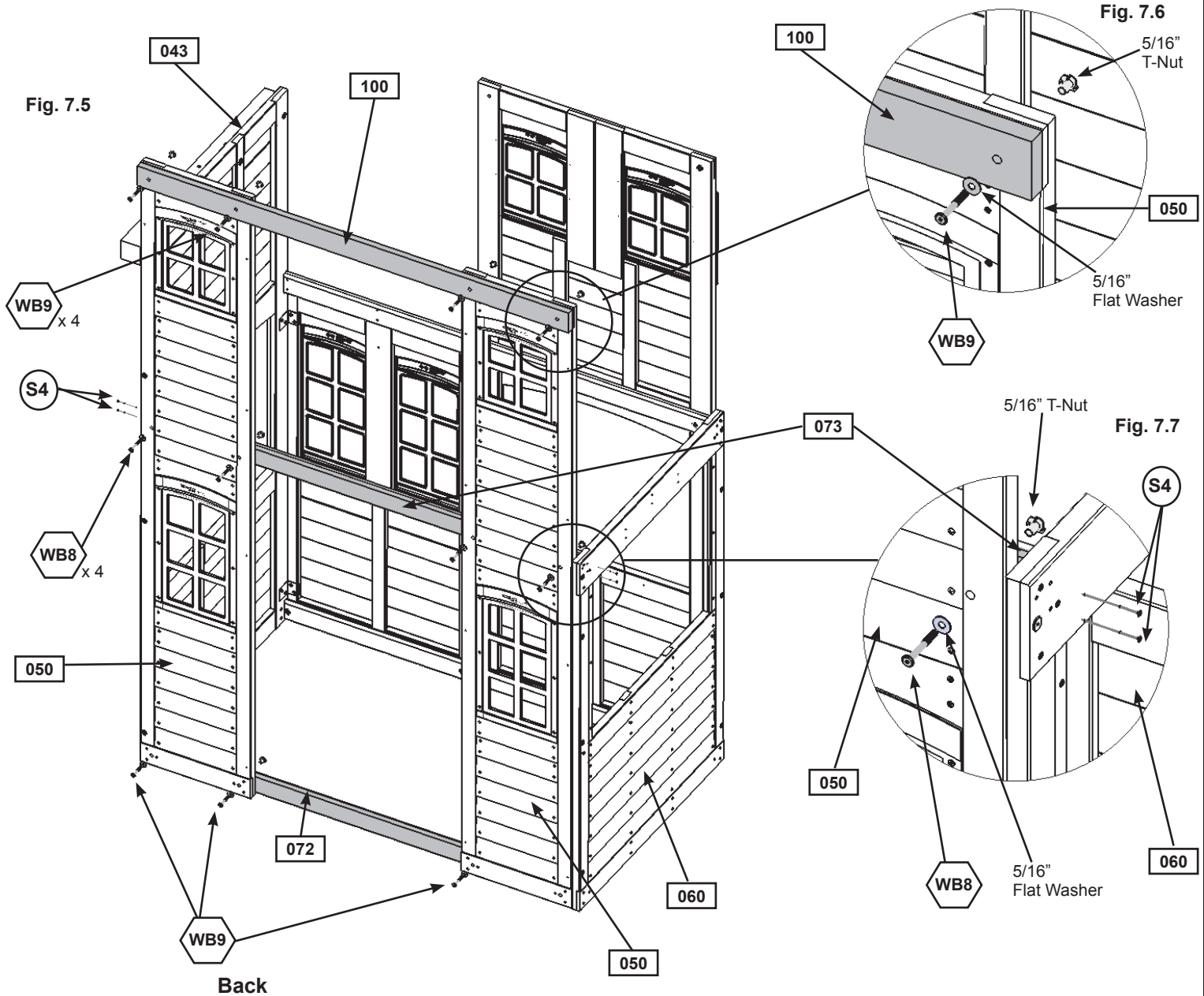
## Step 7: Front Wall Assembly Part 2



**E:** To each (050) Narrow Window Panel loosely attach (072) Back Ground to inside the assembly with 3 (WB9) 5/16 x 2-1/8" Wafer Bolts (with flat washer and t-nut) and (100) Back Top to outside the assembly with 4 (WB9) 5/16 x 2-1/8" Wafer Bolts (with flat washer and t-nut) as shown in fig. 7.5 and 7.6.

**F:** From inside the assembly loosely attach (073) Back Floor to each (050) Narrow Window Panel with 4 (WB8) 5/16 x 2-3/8" Wafer Bolts (with flat washer and t-nut) as shown in fig. 7.5.

**G:** Make sure the assembly is square then attach (060) SL Panel and (043) SW Side Panel to (073) Back Floor with 2 (S4) #8 x 3" Wood Screws per side then tighten all bolts. (fig. 7.5 and 7.7)



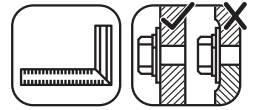
### Wood Parts

- 1 x 072 Back Ground FSC 5/4 x 4 x 64-1/4"
- 1 x 100 Back Top FSC 5/4 x 4 x 65-1/2"
- 1 x 073 Back Floor FSC 2 x 4 x 64-1/4"

### Hardware

- 4 x WB8 5/16 x 2-3/8" Wafer Bolt (5/16" flat washer, 5/16" t-nut)
- 7 x WB9 5/16 x 2-1/8" Wafer Bolt (5/16" flat washer, 5/16" t-nut)
- 4 x S4 #8 x 3" Wood Screw

# Step 7: Front Wall Assembly Part 3



**H:** Loosely attach (074) SL Bottom to (050) Narrow Window Panel and (072) Back Ground with 1 (WB7) 5/16 x 3" Wafer Bolts (with flat washer and t-nut), make sure it is square to the assembly then attach with 1 (S15) #8 x 1-3/4" Wood Screw and tighten bolt. (fig. 7.8 and 7.9)

**I:** On the inside of the assembly attach (040) Wall Cafe Window Panel to (051) SL Window Side Panel using 2 Flat Panel Brackets in the places shown with 4 (S8) #12 x 3/4" Pan Screws per bracket. (fig. 7.8 and 7.10)

Fig. 7.8

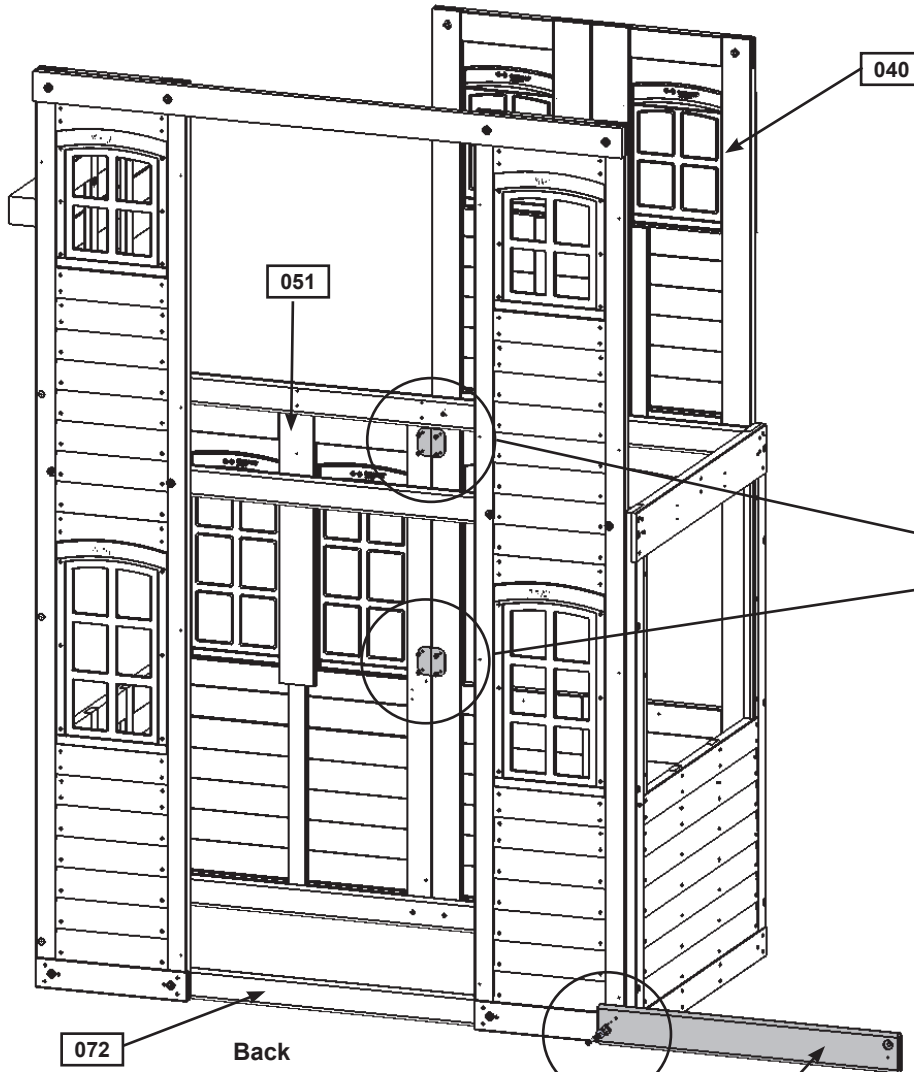


Fig. 7.10

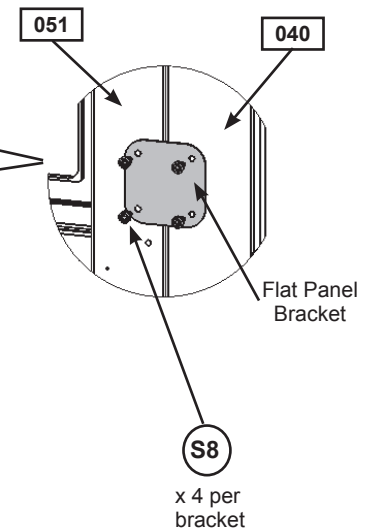
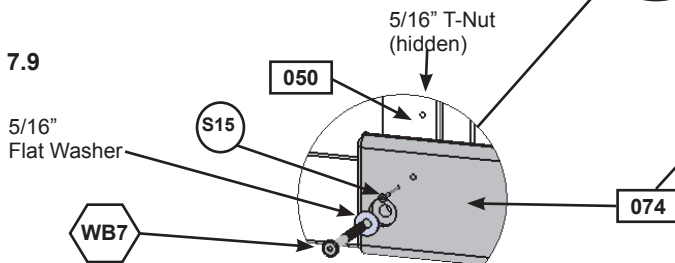


Fig. 7.9



## Wood Parts

1 x [074] SL Bottom FSC 5/4 x 5 x 33-5/8"

## Hardware

1 x [WB7] 5/16 x 3" Wafer Bolt (5/16" flat washer, 5/16" t-nut)

8 x [S8] #12 x 3/4" Pan Screw

1 x [S15] #8 x 1-3/4" Wood Screw

## Other Parts

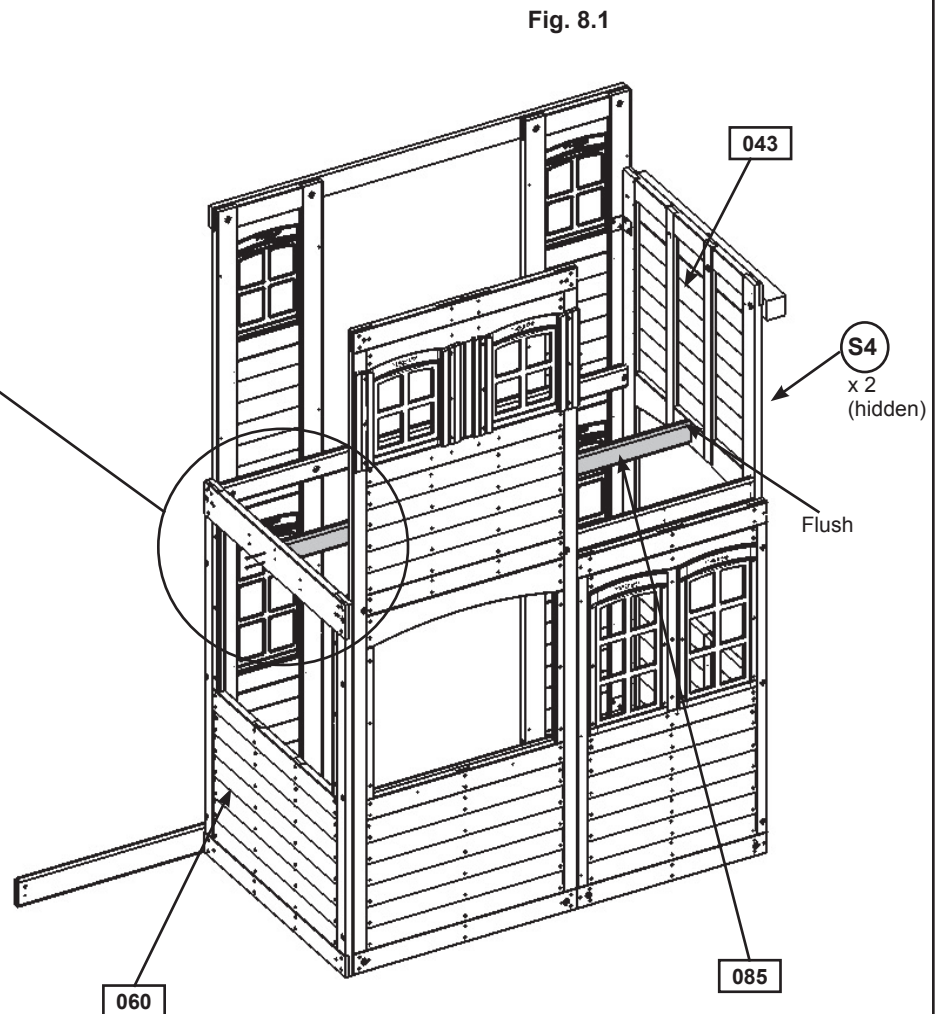
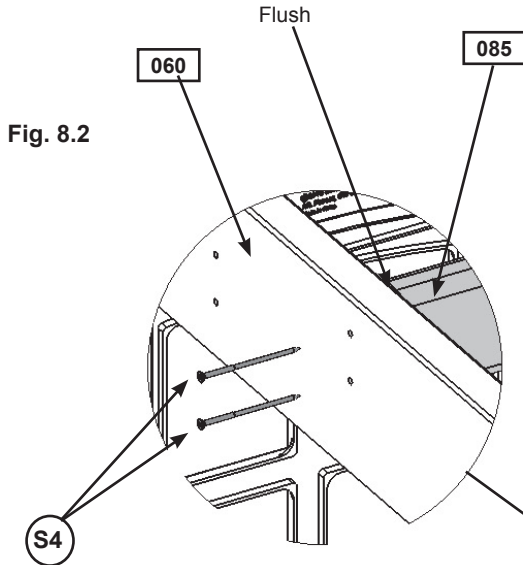
2 x Flat Panel Bracket

## Step 8: Attach Floor Joist



**A:** With one person inside the assembly hold (085) Floor Joist up against (060) SL Panel, flush to the top and lined up with the pilot holes then attach with 2 (S4) #8 x 3" Wood Screws. (fig. 8.1 and 8.2)

**B:** Line (085) Floor Joist up to the pilot holes on the (043) SW Side Panel, making sure the top of the joist is flush to the top of the panel board shown in fig. 8.1 then attach with 2 (S4) #8 x 3" Wood Screws.



### Wood Parts

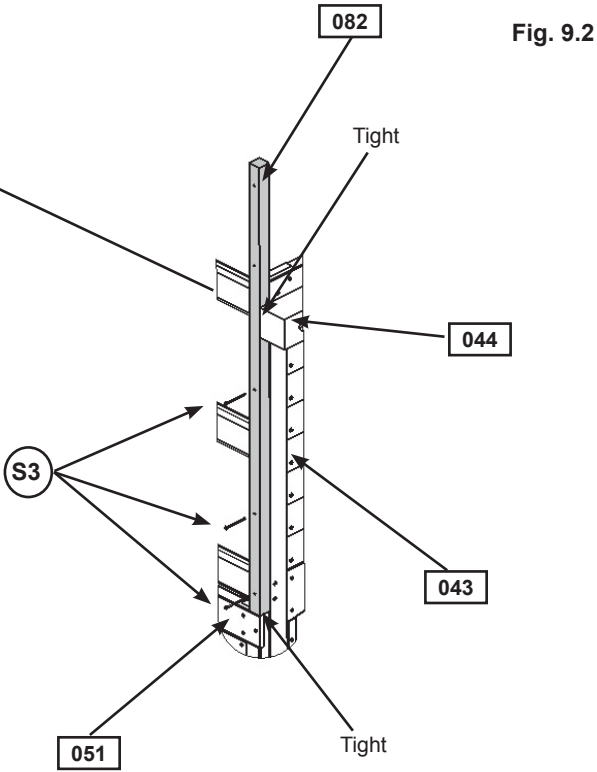
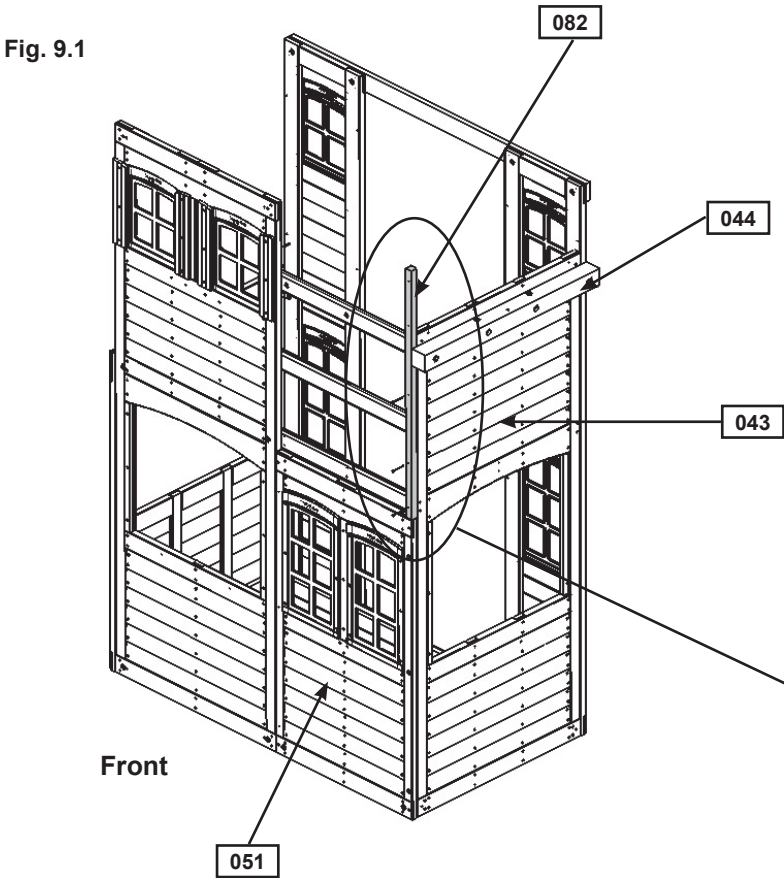
1 x 085 Floor Joist FSC 2 x 4 x 64-1/4"

### Hardware

4 x S4 #8 x 3" Wood Screw

# Step 9: Attach SL Post

**A:** Tight to the top of (051) SL Window Side Panel and tight against (044) SW Wall attach (082) SL Post to (043) SW Side Panel with 3 (S3) #8 x 2-1/2" Wood Screws as shown in fig. 9.1 and 9.2.



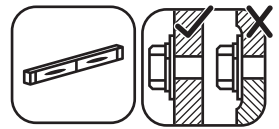
## Wood Parts

1 x 082 SL Post FSC 1-1/4 x 1-1/4 x 44-7/8"

## Hardware

3 x S3 #8 x 2-1/2" Wood Screw

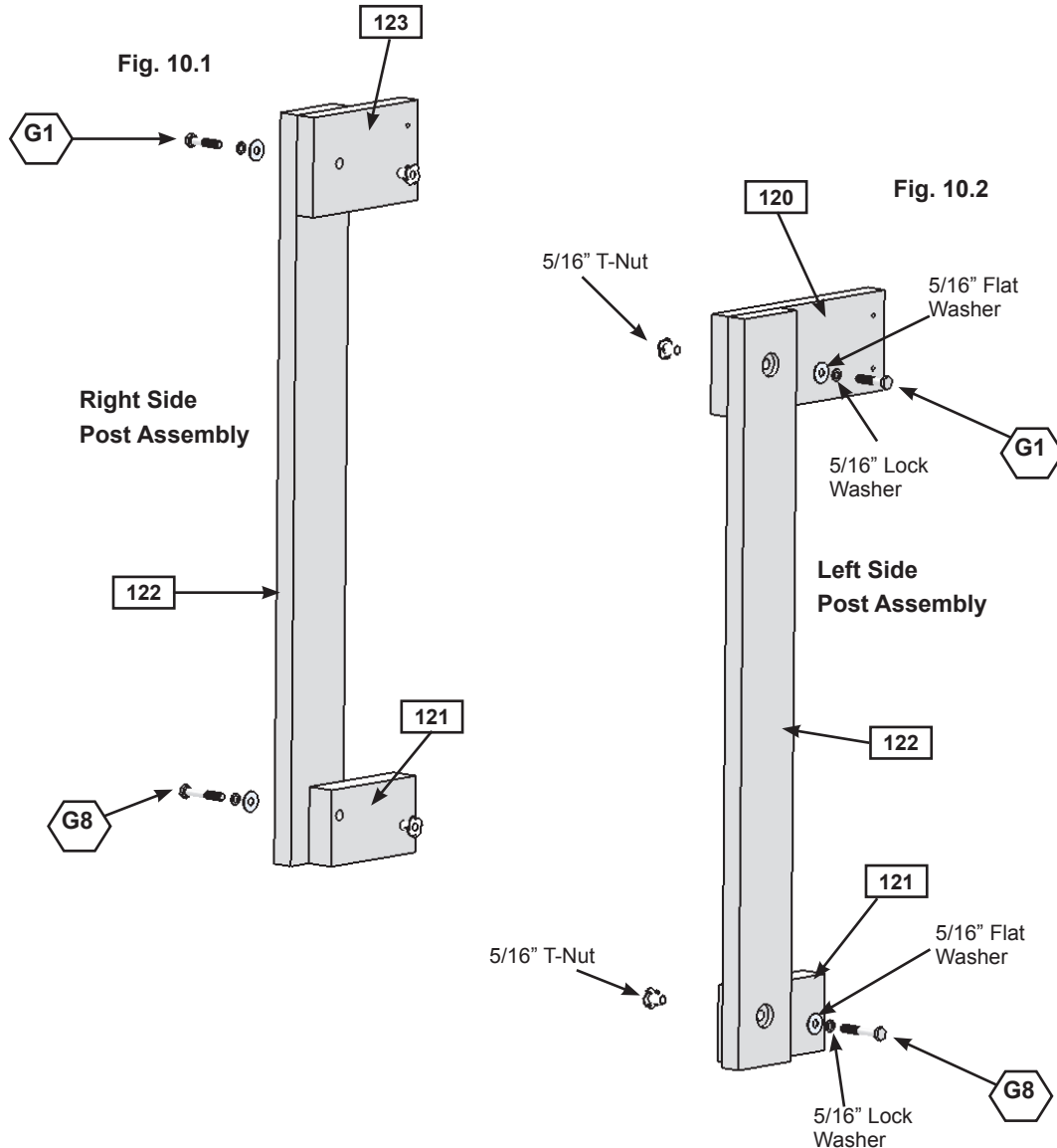
# Step 10: Slide Top Assembly Part 1



**A:** Loosely attach (120) SL Top Left to 1 (122) Post and (123) SL Top Right to another (122) Post with 1 (G1) 5/16 x 1-1/2" Hex Bolt (with lock washer, flat washer and t-nut) per post. (fig. 10.1 and 10.2)

**B:** Loosely attach 1 (121) Short Joist to the bottom of both (122) Posts with 1 (G8) 5/16 x 2" Hex Bolt (with lock washer, flat washer and t-nut) per post. (fig. 10.1 and 10.2)

**Note:** Make sure (120) SL Top Left, (123) SL Top Right and (121) Short Joists are level to the top and bottom of (122) Posts.



## Wood Parts

- 1 x 120 SL Top Left FSC 5/4 x 5 x 9-3/4"
- 2 x 121 Short Joist FSC 2 x 4 x 5-1/4"
- 2 x 122 Post FSC 5/4 x 4 x 31-7/8"
- 1 x 123 SL Top Right FSC 5/4 x 5 x 6-1/2"

## Hardware

- 2 x G1 5/16 x 1-1/2" Hex Bolt (5/16" lock washer, 5/16" flat washer, 5/16" t-nut)
- 2 x G8 5/16 x 2" Hex Bolt (5/16" lock washer, 5/16" flat washer, 5/16" t-nut)

## Step 10: Slide Top Assembly Part 2

**C:** Place Left Side Post Assembly tight to (043) SW Side Panel and (082) SL Post and Right Side Post Assembly tight to (040) Wall Cafe Window Panel so both (121) Short Joists are flush to the top of (071) Front Floor and centred over the pilot holes then attach with 2 (S4) #8 x 3" Wood Screws per assembly. (fig. 10.3 and 10.4)

**D:** Place (124) Short Floor Joist flush to the top of (071) Front Floor and centred over the middle pilot holes then attach with 2 (S4) #8 x 3" Wood Screws. (fig. 10.3 and 10.4)

Fig. 10.3

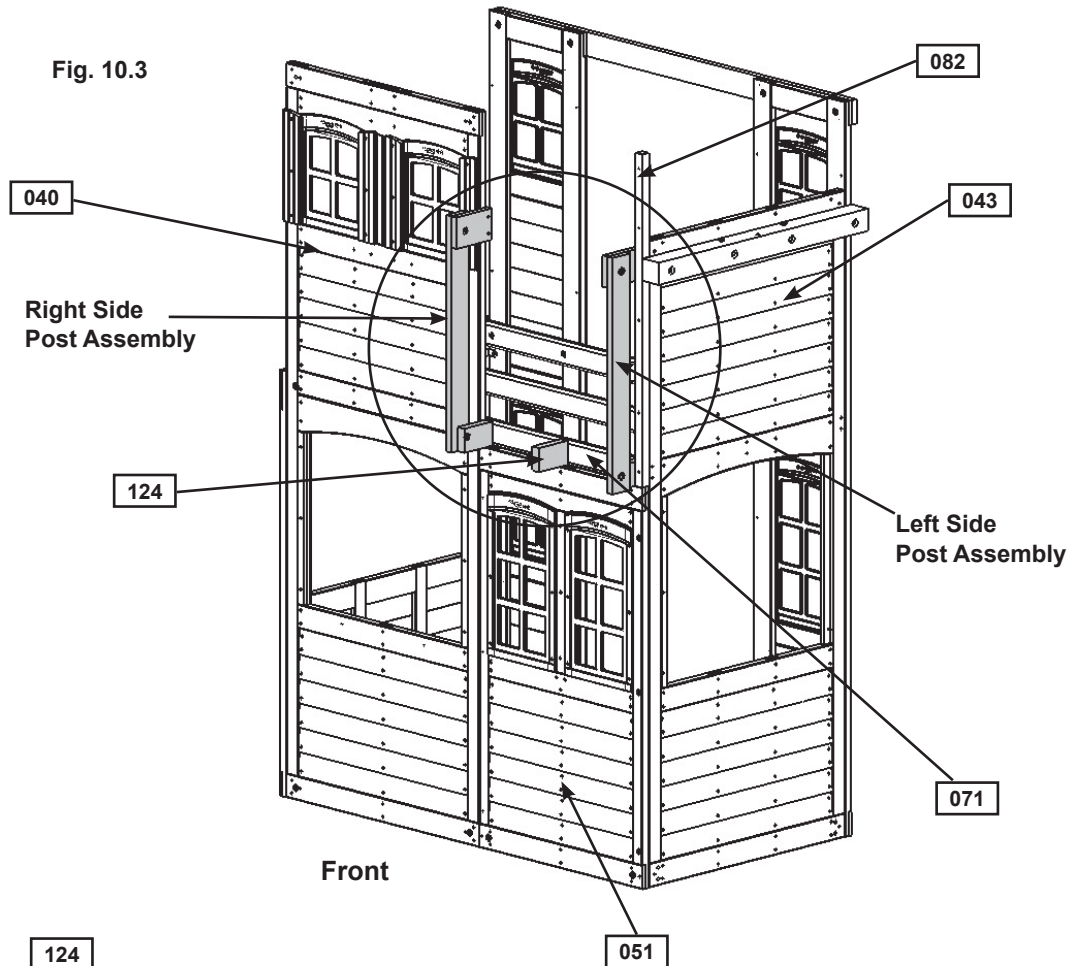
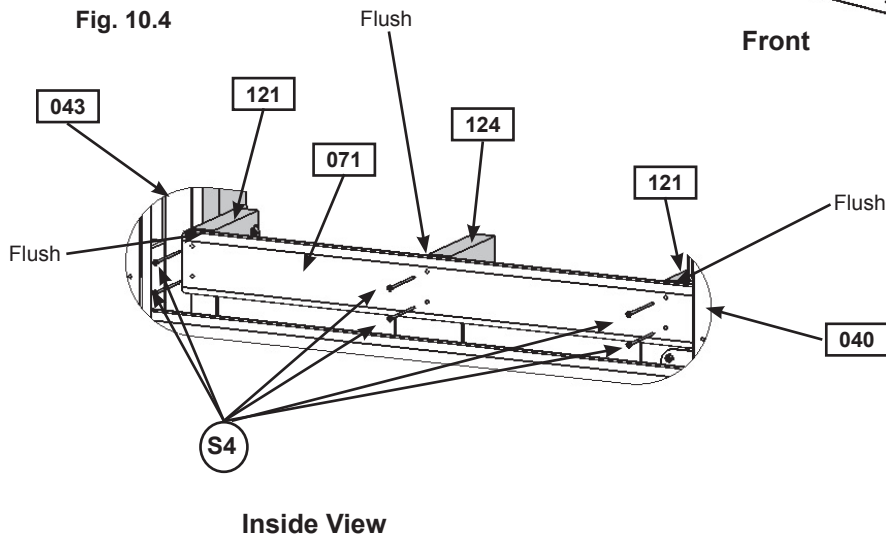


Fig. 10.4



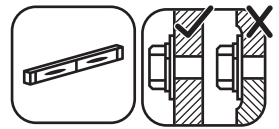
### Wood Parts

1 x 124 Short Floor Joist FSC 2 x 4 x 5-1/4"

### Hardware

6 x (S4) #8 x 3" Wood Screw

## Step 10: Slide Top Assembly Part 3



**E:** Make sure (120) SL Top Left is flush to the inside edge of the panel support on (043) SW Side Panel and (123) SL Top Right is flush to the inside edge of (040) Wall Cafe Window Panel and both boards are level then attach to (043) SW Side Panel and (040) Cafe Wall Window Panel with 2 (S15) #8 x 1-3/4" Wood Screws per board. (fig. 10.5 and 10.6)

**F:** Tighten bolts on each Post Assembly.

Fig. 10.5

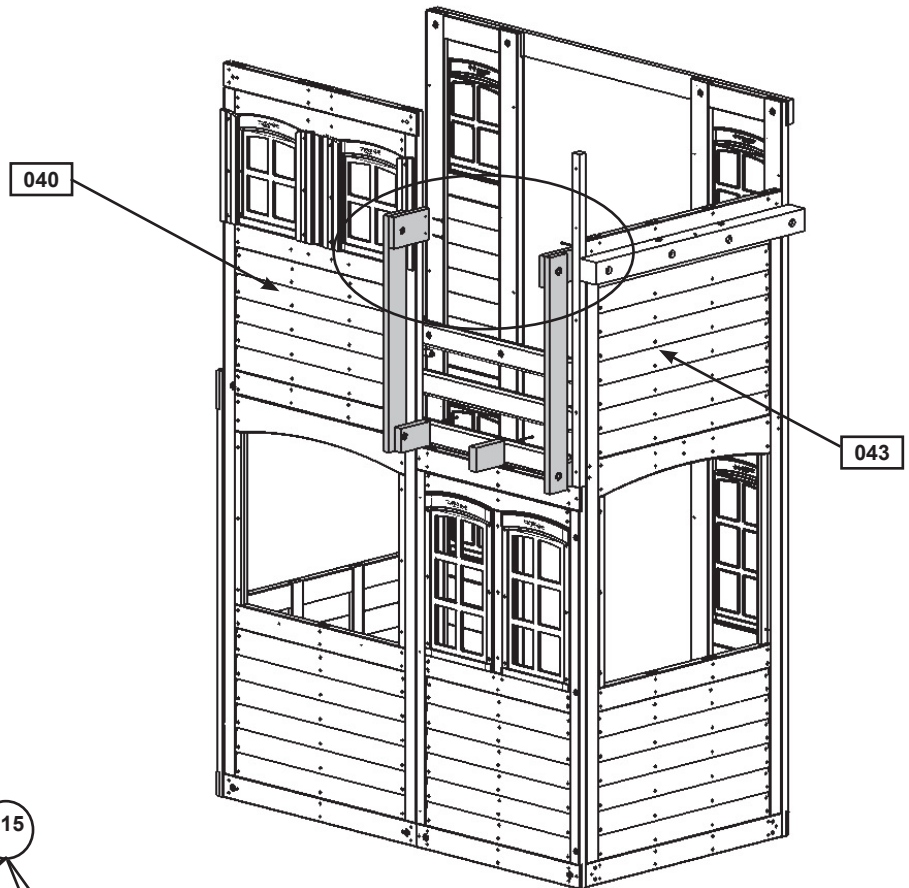
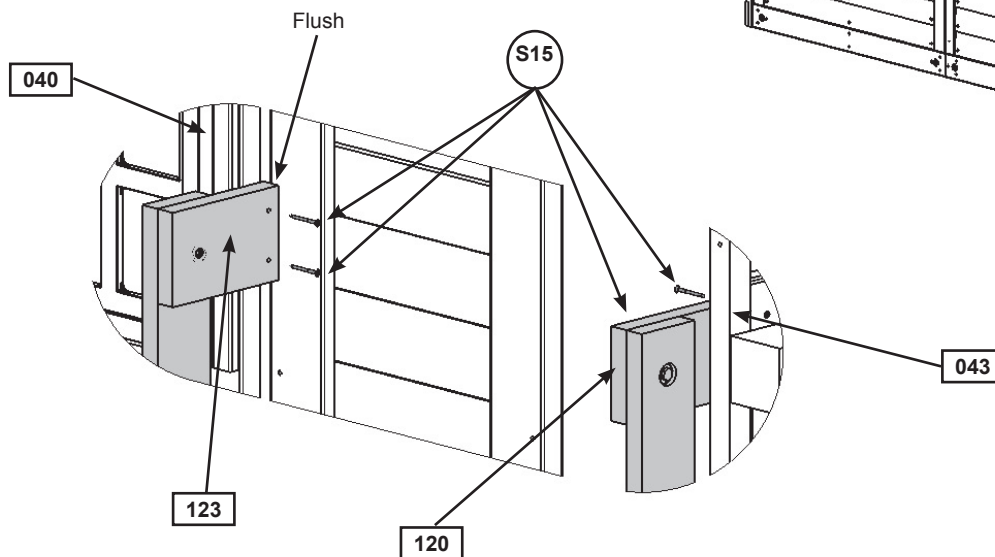


Fig. 10.6



### Hardware

4 x (S15) #8 x 1-3/4" Wood Screw

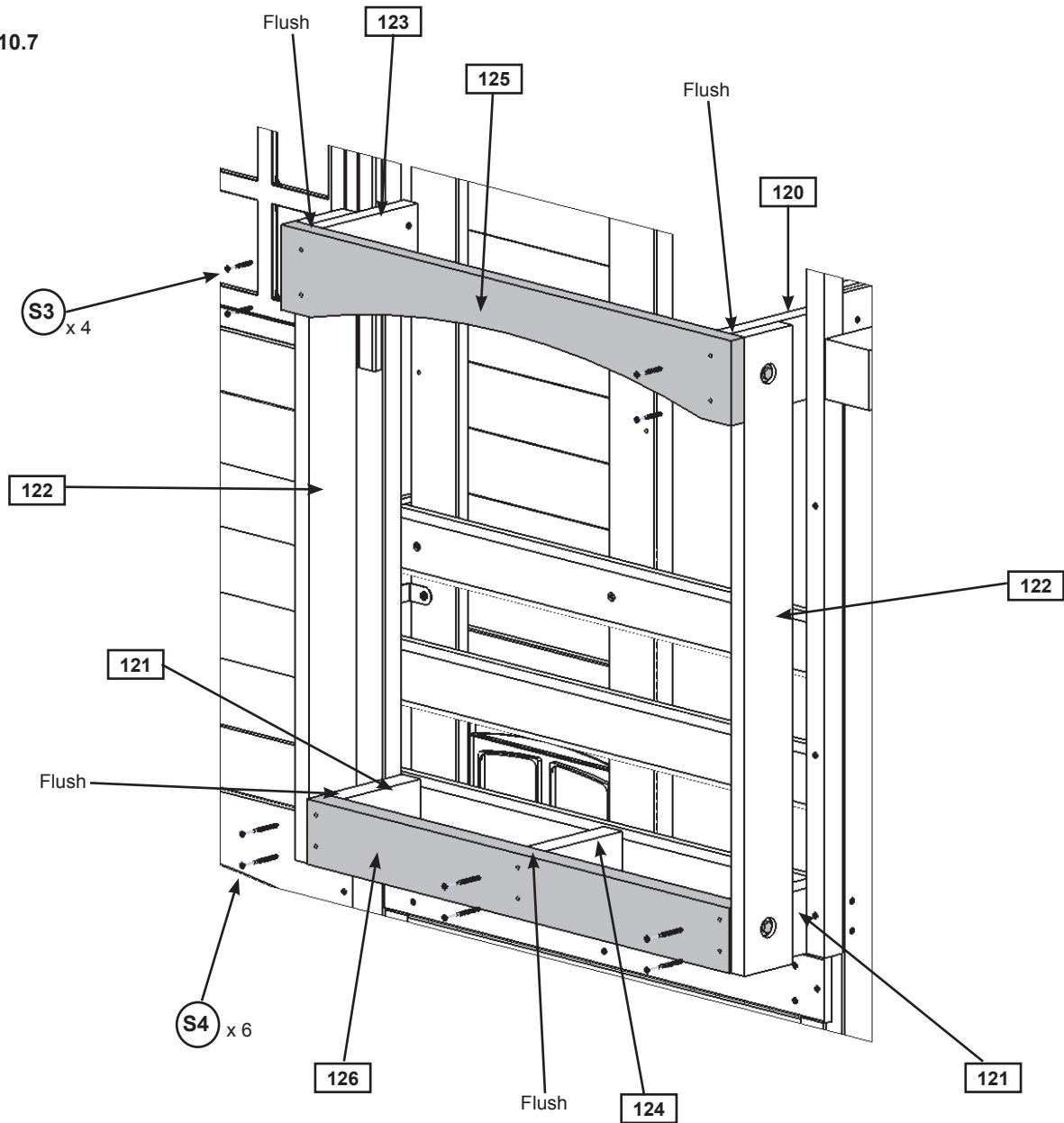
# Step 10: Slide Top Assembly

## Part 4

**G:** Flush to the tops of each (122) Post attach (125) SL Top to (120) SL Top Left and (123) SL Top Right with 4 (S3) #8 x 2-1/2" Wood Screws. (fig. 10.7)

**H:** Flush to the tops of (121) Short Joists and (124) Short Floor Joist attach (126) SL End with 6 (S4) #8 x 3" Wood Screws. (fig. 10.7)

Fig. 10.7



### Wood Parts

- 1 x 125 SL Top FSC 5/4 x 5 x 30-5/8"
- 1 x 126 SL End FSC 2 x 4 x 28-3/4"

### Hardware

- 4 x S3 #8 x 2-1/2" Wood Screw
- 6 x S4 #8 x 3" Wood Screw

# Step 11: Swing Wall Assembly Part 1



**Keep all bolts loose in this step.**

**A:** Loosely attach (110) Ground SW to the bottom of (043) SW Side Panel using 4 (G8) 5/16 x 2" Hex Bolts (with lock washer, flat washer and t-nut). (fig. 11.1, 11.2 and 11.3)

**B:** At each end of (110) Ground SW loosely attach 1 (111) Diagonal with 1 (G8) 5/16 x 2" Hex Bolt (with lock washer, flat washer and t-nut) per side. (fig. 11.1 and 11.2)

Fig. 11.1

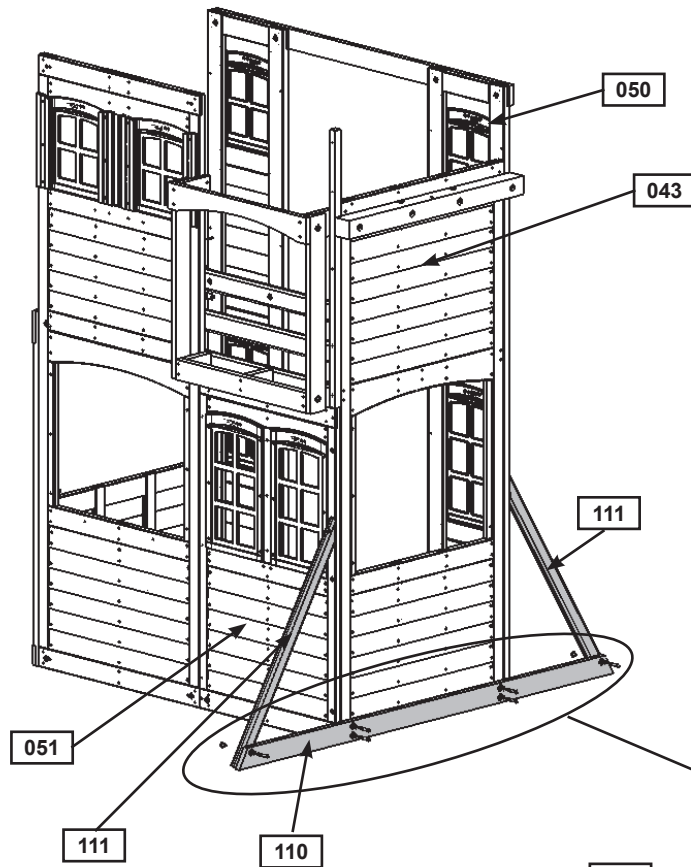


Fig. 11.3

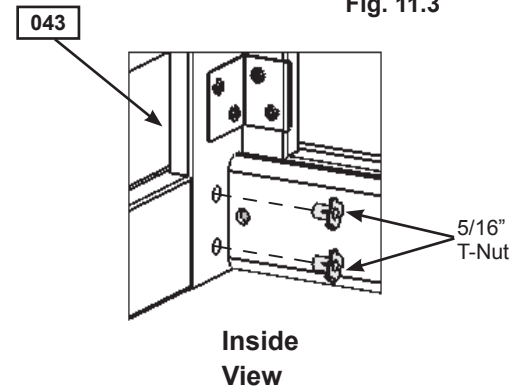
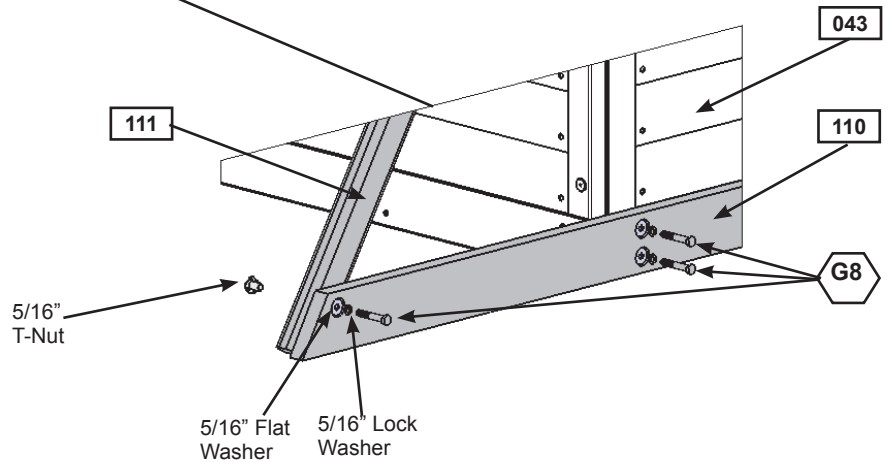


Fig. 11.2



## Wood Parts

- 1 x 110 Ground SW FSC 5/4 x 4 x 82-5/8"
- 2 x 111 Diagonal FSC 2 x 3 x 42-1/4"

## Hardware

- 6 x G8 5/16 x 2" Hex Bolt  
(5/16" lock washer, 5/16" flat washer, 5/16" t-nut)

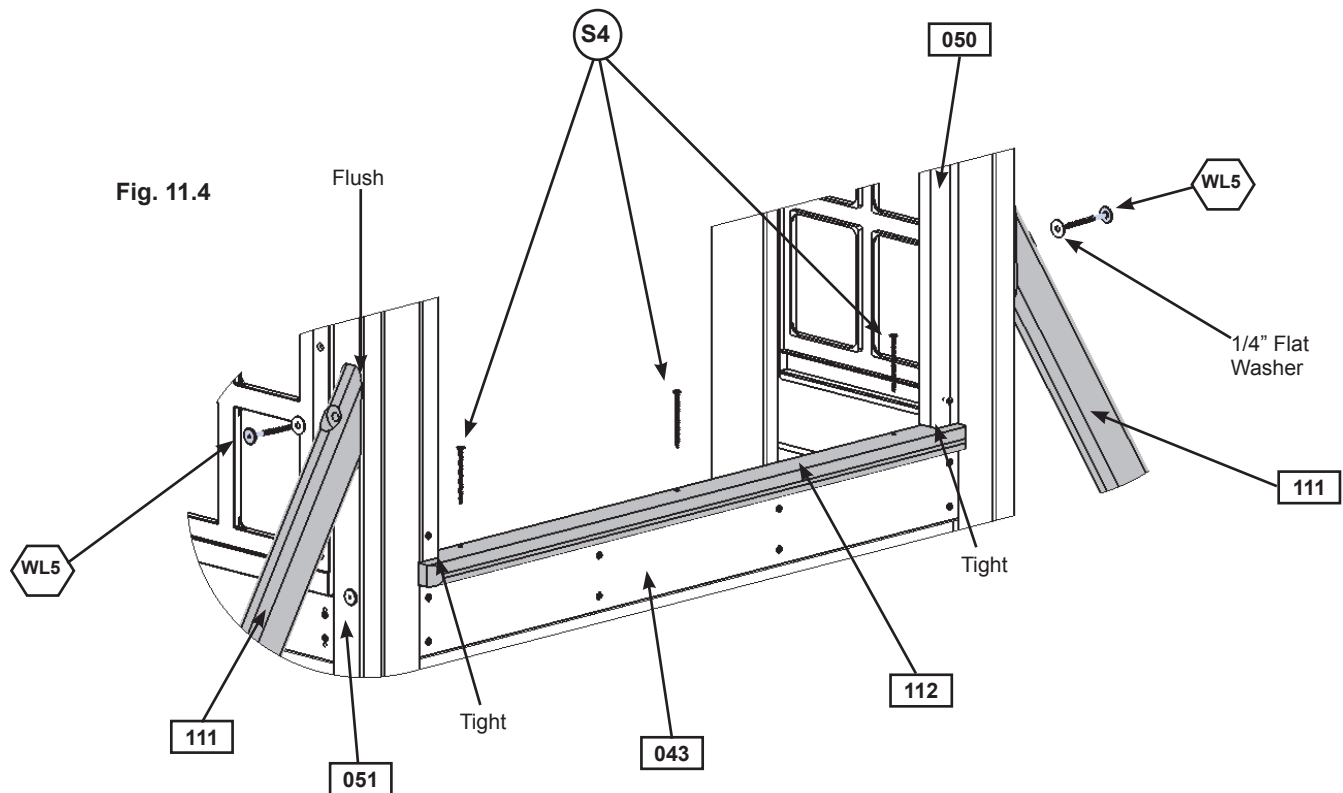
## Step 11: Swing Wall Assembly Part 2



**C:** Pre-drill pilot holes with a 3/16" drill bit then attach (111) Diagonal flush to outside edge of (050) Narrow Window Panel and (051) SL Window Side Panel with 1 (WL5) 1/4 x 2-1/2" Wafer Lag (with flat washer) per diagonal. (fig. 11.4)

**D:** Tighten all 6 (G8) 5/16 x 2" Hex Bolts from Step 11 A and B.

**E:** In the opening of (043) SW Side Panel attach (112) SW Table Top, tight to the corner of the panels, with 3 (S4) #8 x 3" Wood Screws as shown in fig. 11.4.



### Wood Parts

1 x (112) SW Table Top FSC 5/4 x 3 x 31-3/4"

### Hardware

2 x (WL5) 1/4 x 2-1/2" Wafer Lag (1/4" flat washer)

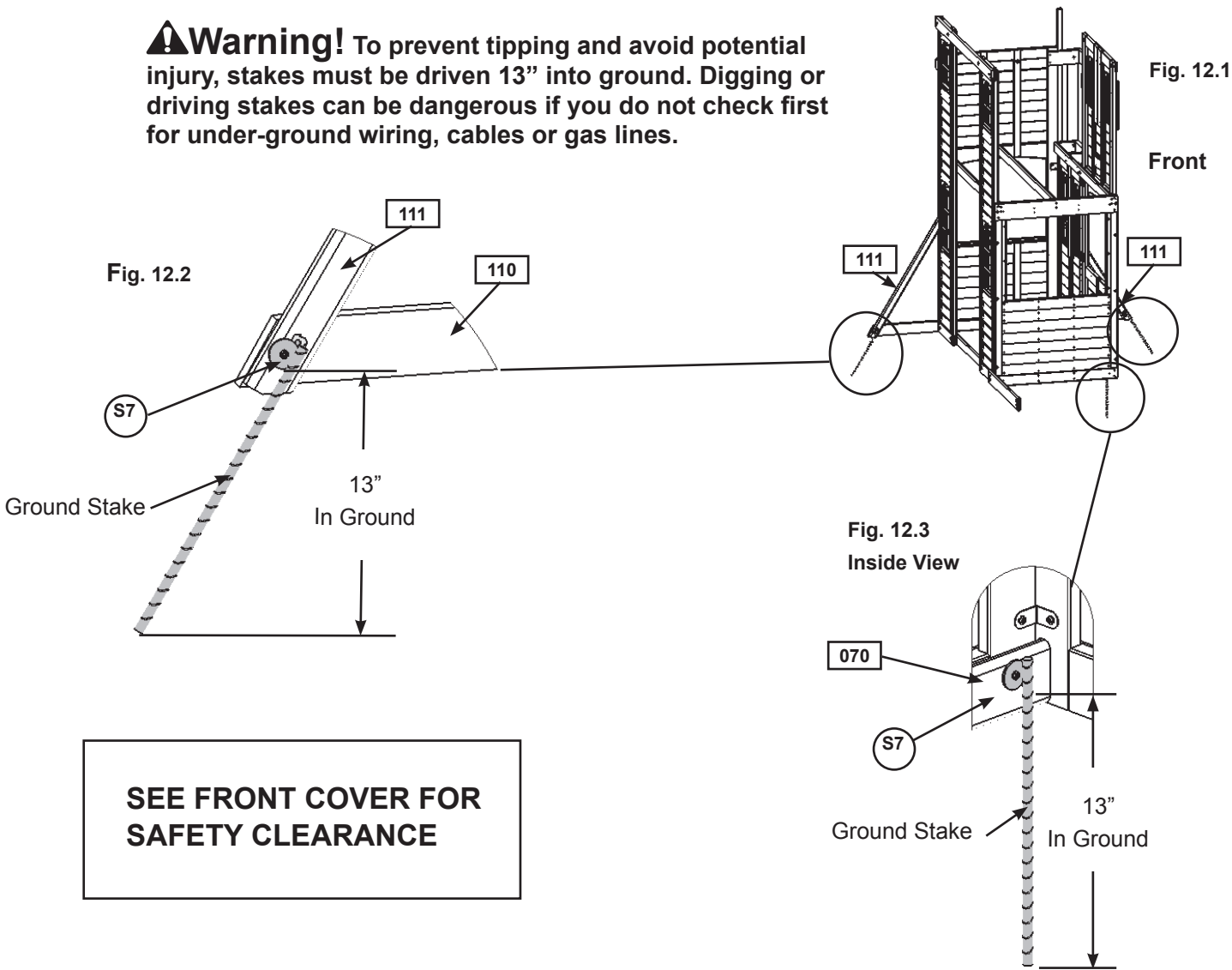
3 x (S4) #8 x 3" Wood Screw

# Step 12: Install Fort Ground Stakes

**MOVE FORT TO FINAL LOCATION PRIOR TO STAKING**  
**FINAL LOCATION MUST BE LEVEL GROUND**

- A:** In the 3 places shown in fig. 12.1 drive the Rebar Ground Stakes 13" into the ground against (070) Front Ground and both (111) Diagonals. Be careful not to hit the washer while hammering stakes into the ground as this could cause the washer to break off.
- B:** Attach ground stakes to (070) Front Ground and both (111) Diagonals using 1 (S7) #12 x 2" Pan Screw per ground stake as shown in fig. 12.2 and 12.3.
- C:** After driving stakes into the ground, check for sharp edges caused by the impact of the hammer. Smooth any sharp edges from impact area and touch up with outdoor paint.

**⚠Warning!** To prevent tipping and avoid potential injury, stakes must be driven 13" into ground. Digging or driving stakes can be dangerous if you do not check first for under-ground wiring, cables or gas lines.



**Hardware**

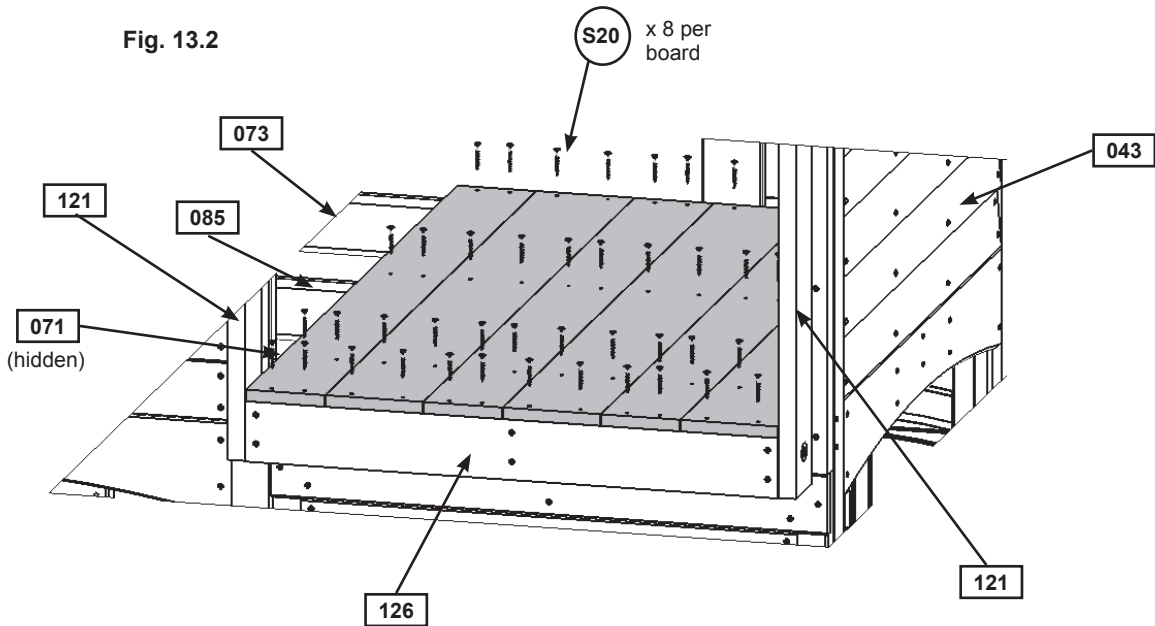
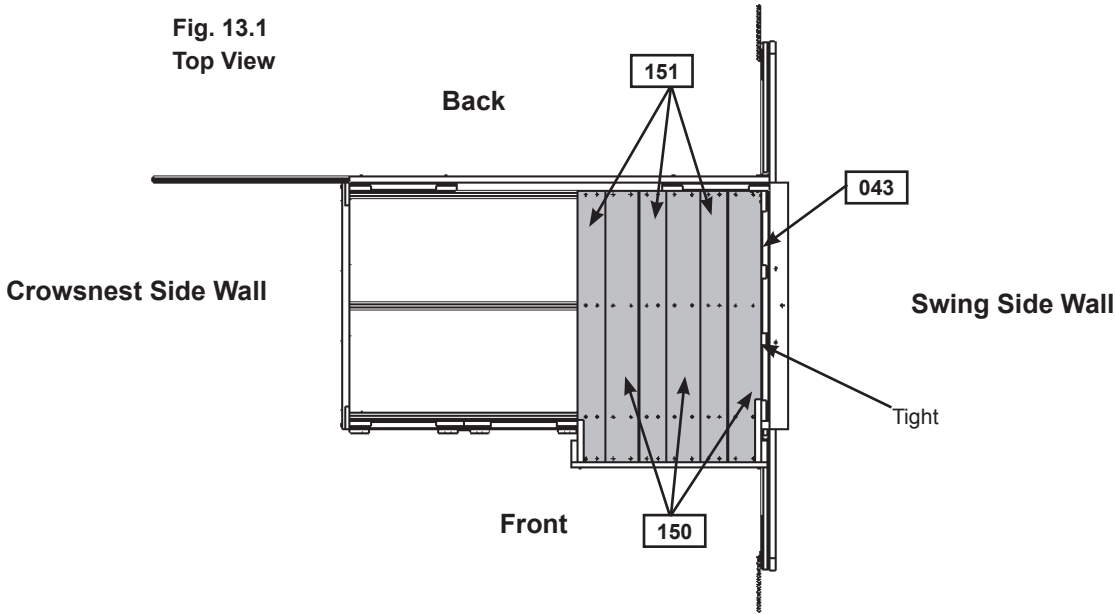
3 x **S7** #12 x 2" Pan Screw

**Other Parts**

3 x Rebar Ground Stake

# Step 13: Floor Board Assembly Part 1

- A:** Stagger 3 (150) Slidenest Floors and 3 (151) Slidenest Floor As on (126) SL End, (071) Front Floor, (085) Floor Joist and (073) Back Floor. The first board should be tight to (043) SW Side Panel. (fig. 13.1 and 13.2)
- B:** These floor boards are between both (121) Posts and evenly spaced. Attach all 6 boards with 8 (S20) #8 x 1-3/8" Wood Screws per board. (fig. 13.2)



## Wood Parts

- 3 x 150 Slidenest Floor FSC 1 x 6 x 42-1/2"
- 3 x 151 Slidenest Floor A FSC 1 x 5 x 42-1/2"

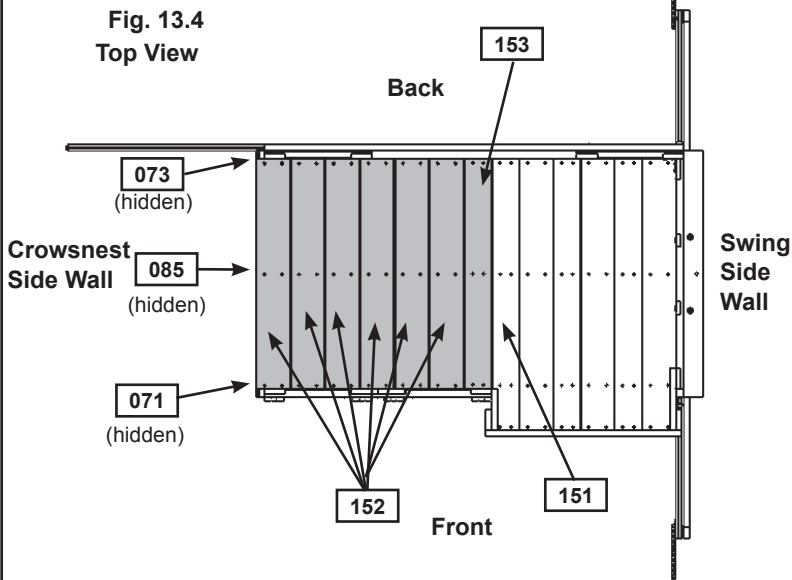
## Hardware

- 48 x S20 #8 x 1-3/8" Wood Screw

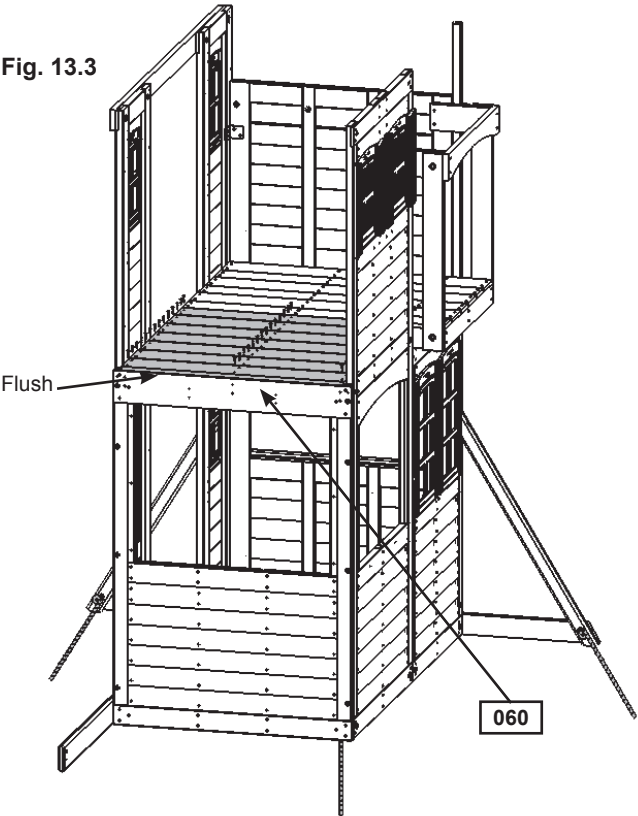
# Step 13: Floor Board Assembly

## Part 2

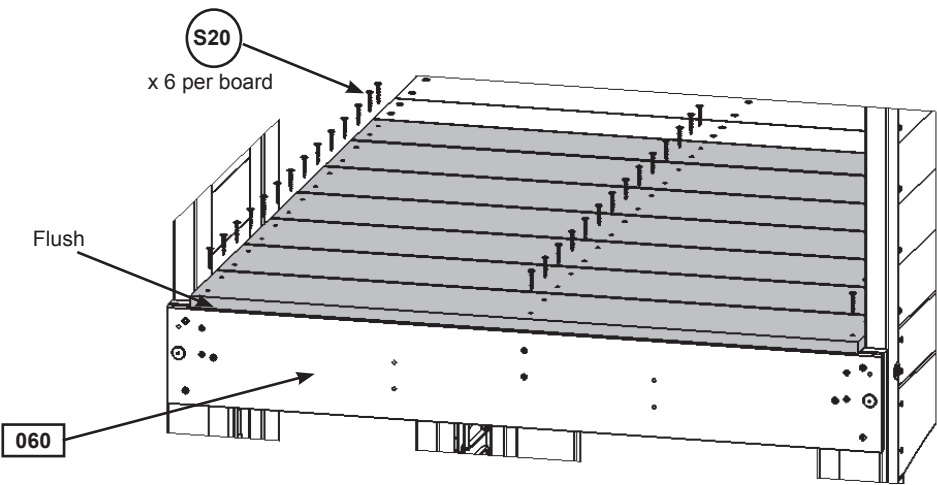
- C:** Next to (151) Slidenest Floor A place 1 (153) Floor A followed by 6 (152) Floors. Make sure all boards are evenly spaced and the last (152) Floor is flush to the front of (060) SL Panel. (fig. 13.3, 13.4 and 13.5)
- D:** Attach the 7 unfastened floor boards to (071) Front Floor, (085) Floor Joist and (073) Back Floor with 6 (S20) #8 x 1-3/8" Wood Screws per board. (fig. 13.5)



**Fig. 13.3**



**Fig. 13.5**



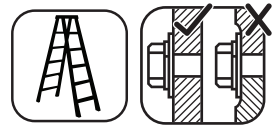
### Wood Parts

- 6 x 152 Floor FSC 1 x 6 x 36"  
1 x 153 Floor A FSC 1 x 5 x 36"

### Hardware

- 42 x S20 #8 x 1-3/8" Wood Screw

## Step 14: Attach Front Top



**A:** Attach (127) Front Top to (040) Wall Cafe Window Panel with 2 (WB9) 5/16 x 2-1/8" Wafer Bolts (with flat washer and t-nut) as shown in fig. 14.1 and 14.2.

**B:** Attach (127) Front Top to (082) SL Post with 1 (S15) #8 x 1-3/4" Wood Screw in the top hole. (fig. 14.1 and 14.2)

Fig. 14.1

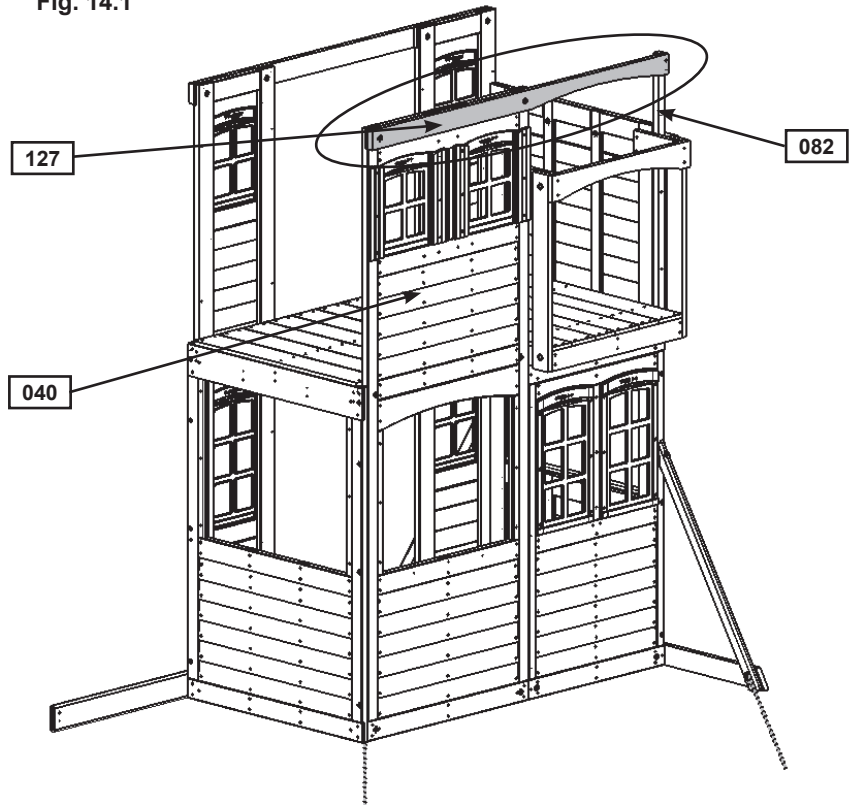
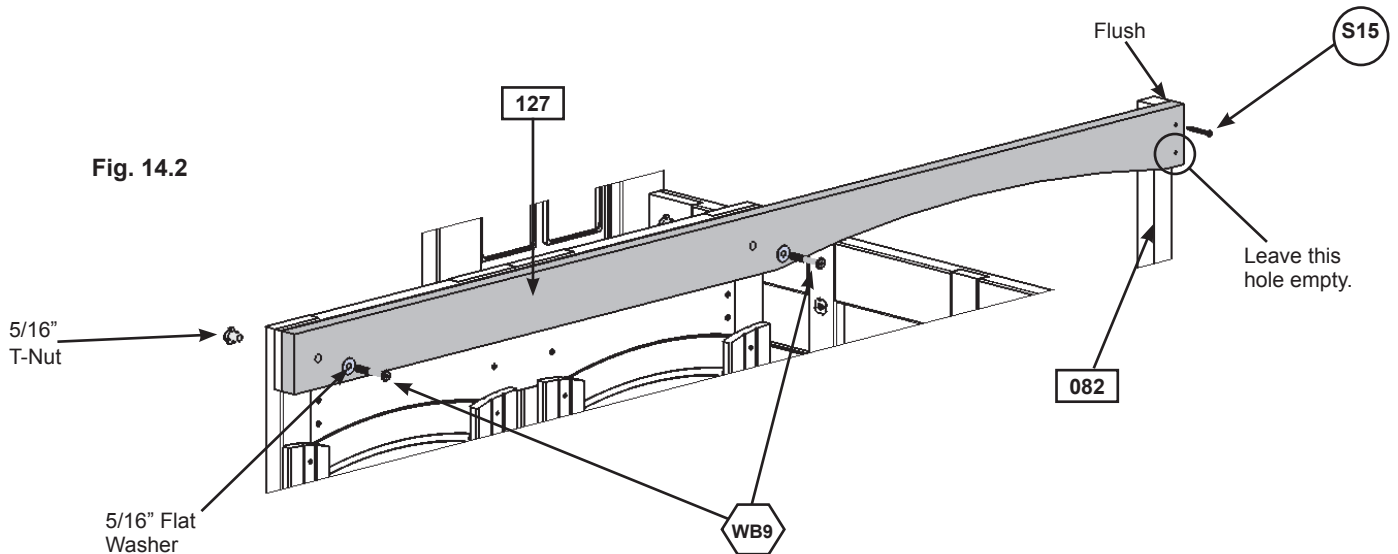


Fig. 14.2



### Wood Parts

1 x **127** Front Top FSC 5/4 x 4 x 65-1/2"

### Hardware

1 x **S15** #8 x 1-3/4" Wood Screw

2 x **WB9** 5/16 x 2-1/8" Wafer Bolt (5/16" flat washer, 5/16" t-nut)

# Step 15: Attach Transom Front and Back Part 1



**A:** Place (222) F Transom on top of (082) SL Post and (040) Cafe Wall Window Panel, behind (127) Front Top so the outside edge is flush to the outside edge of (082) SL Post as shown in fig. 15.1 and 15.2. If the space is too tight, loosen the bolt at the front of the assembly, as shown in fig. 15.2.

**B:** From inside the assembly attach (222) Transom Panel Front to (127) Front Top with 3 (S15) #8 x 1-3/4" Wood Screws. (fig. 22.2)

**C:** Retighten the bolt loosened in Step A if loosened.

Fig. 15.1

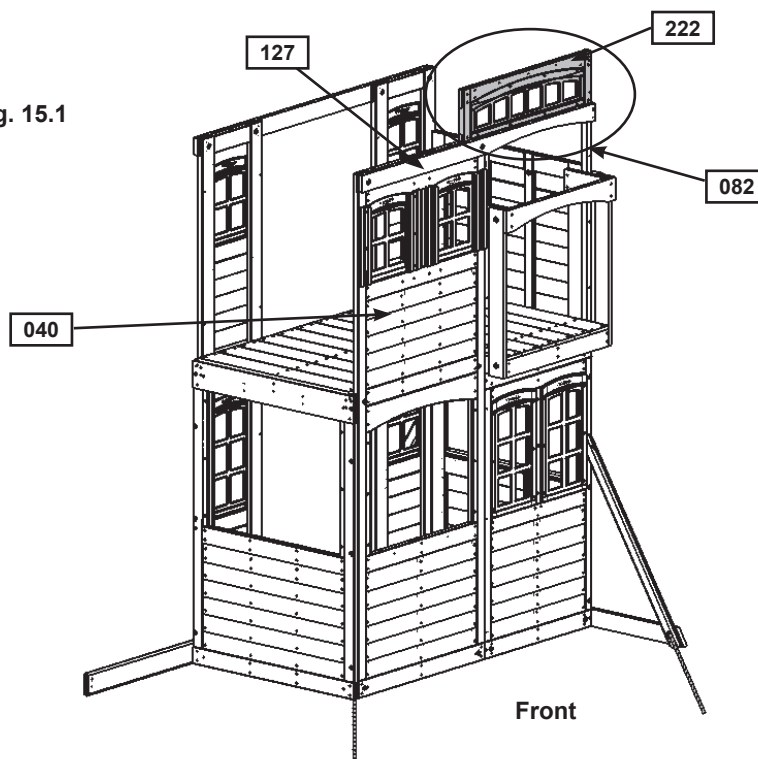
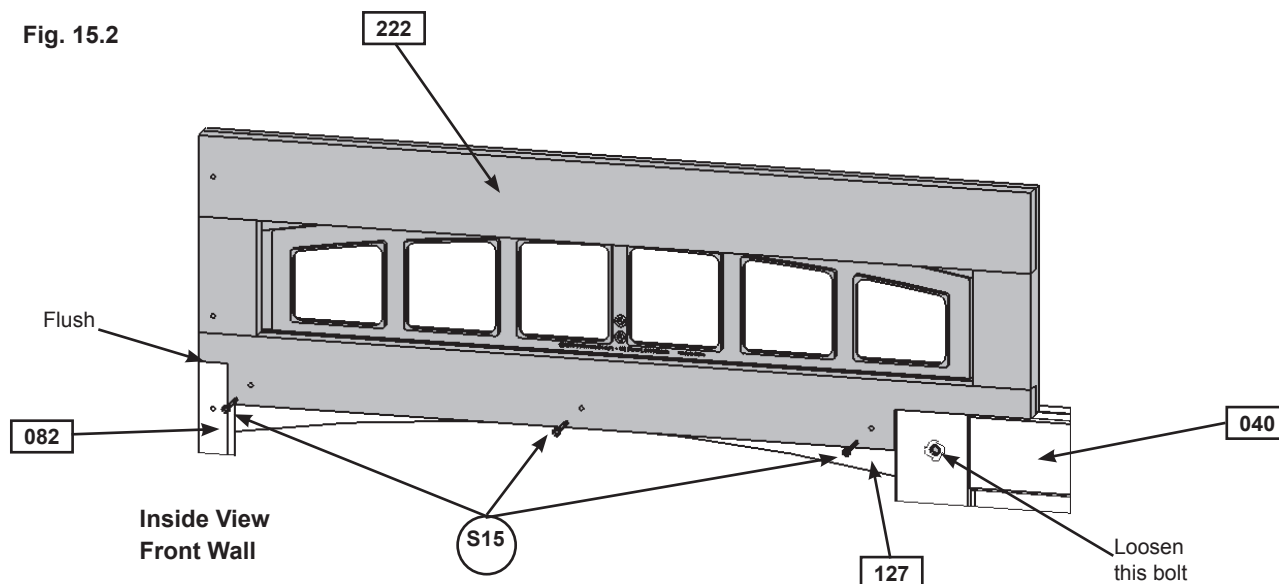


Fig. 15.2



## Wood Parts

1 x 222 F Transom FSC 1-1/4 x 11-1/2 x 35-7/8"

## Hardware

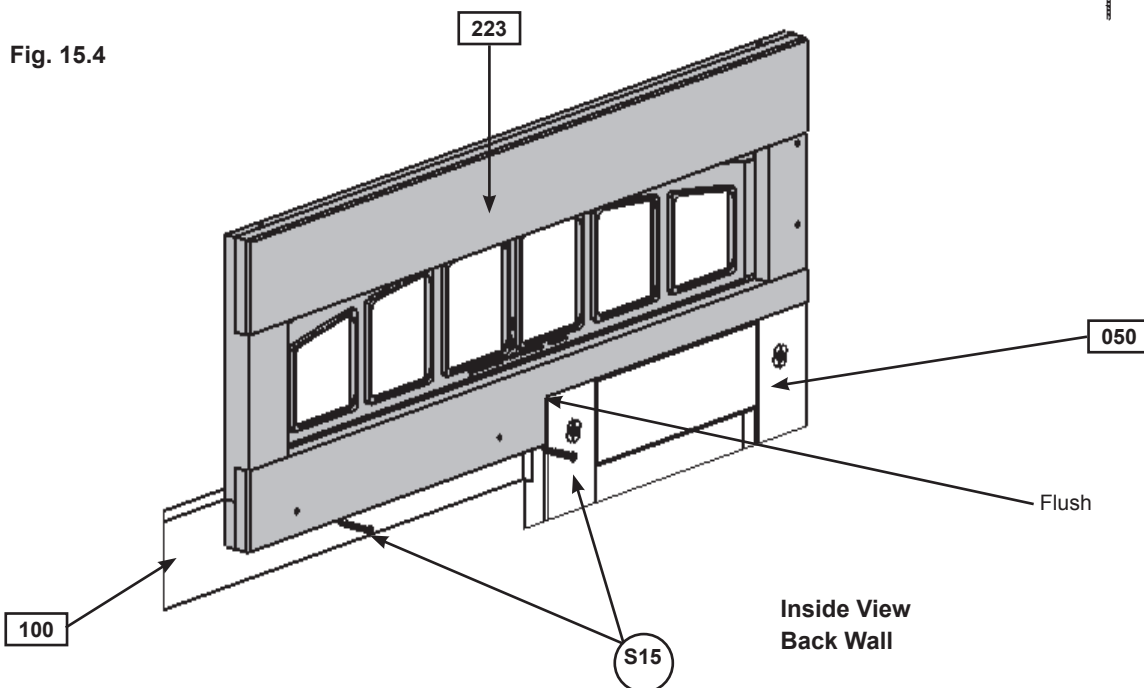
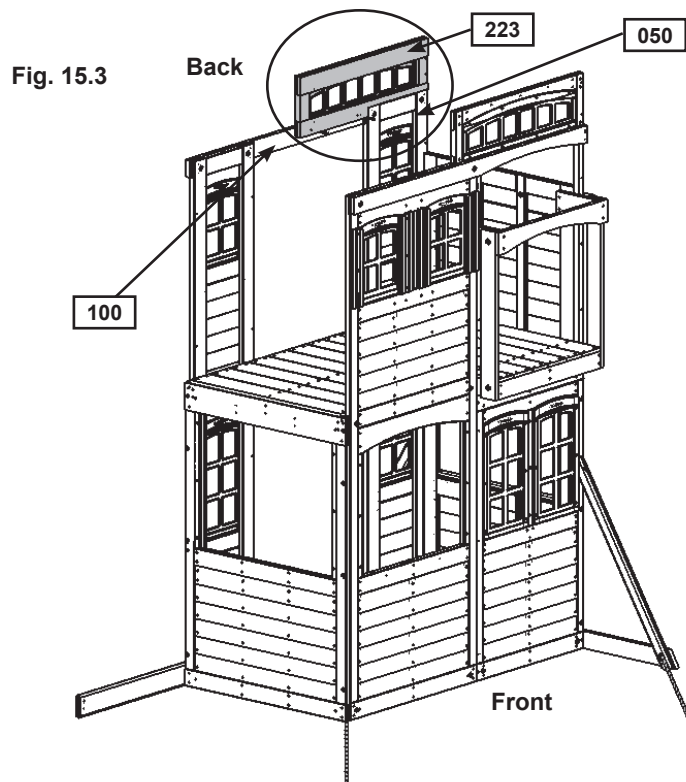
3 x S15 #8 x 1-3/4" Wood Screw

## Step 15: Attach Transom Front and Back Part 2



**D:** Place (223) B Transom on top of (050) Narrow Window Panel, behind (100) Back Top so the outside edge is flush to the outside edge of (050) Narrow Window Panel as shown in fig. 15.3 and 15.4.

**E:** From inside the assembly attach (223) B Transom to (100) Back Top with 2 (S15) #8 x 1-3/4" Wood Screws. (15.4)



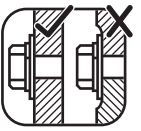
### Wood Parts

1 x 223 B Transom FSC 1-1/4 x 11-1/2 x 35-7/8"

### Hardware

2 x S15 #8 x 1-3/4" Wood Screw

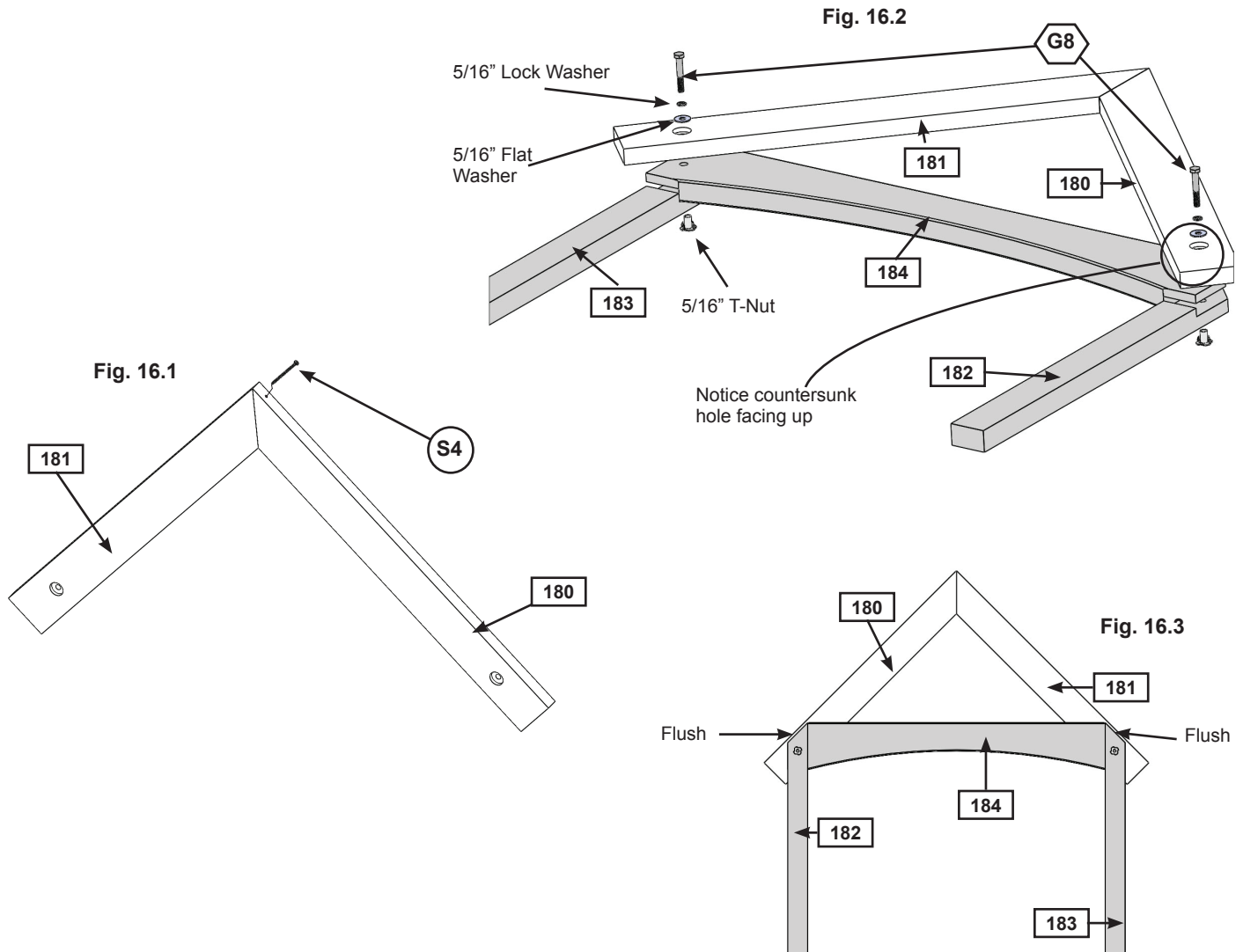
# Step 16: Roof Support Assembly Part 1



**A:** Attach (180) Roof Support to (181) Roof Support Left at peak using 1 (S4) #8 x 3" Wood Screw. (fig. 16.1)

**B:** Place (182) Top Post Right and (183) Top Post Left on the ground with the notched out side facing up. Place (184) SW Top over (182) and (183) Top Post Right and Left so the notches fit together. (fig. 16.2 and 16.3)

**C:** Place Roof Support Assembly over (184) SW Top with the counter sunk holes facing up then attach with 2 (G8) 5/16 x 2" Hex Bolts (with lock washer, flat washer and t-nut). The angled edges of (182) and (183) Top Post Right and Left should be flush to the outside edges of (180) Roof Support and (181) Roof Support Left and the tips of each (182) and (183) Top Post Right and Left should be flush to the top of (184) SW Top. (fig. 16.2 and 16.3)



## Wood Parts

- 1 x (180) Roof Support FSC 5/4 x 4 x 29"
- 1 x (181) Roof Support Left FSC 5/4 x 4 x 29"
- 1 x (182) Top Post Right FSC 1-1/4 x 2-1/8 x 24-5/8"
- 1 x (183) Top Post Left FSC 1-1/4 x 2-1/8 x 24-5/8"
- 1 x (184) SW Top FSC 1-1/4 x 5 x 36"

## Hardware

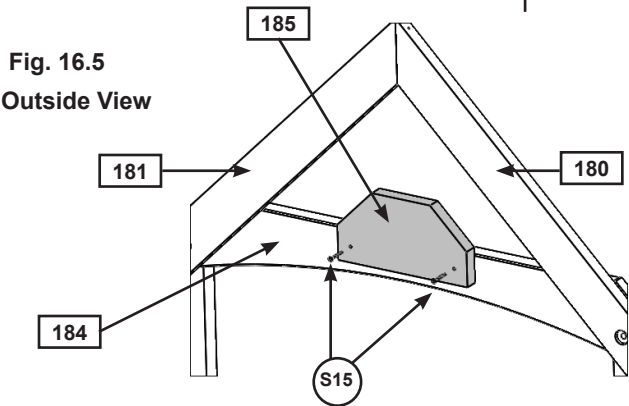
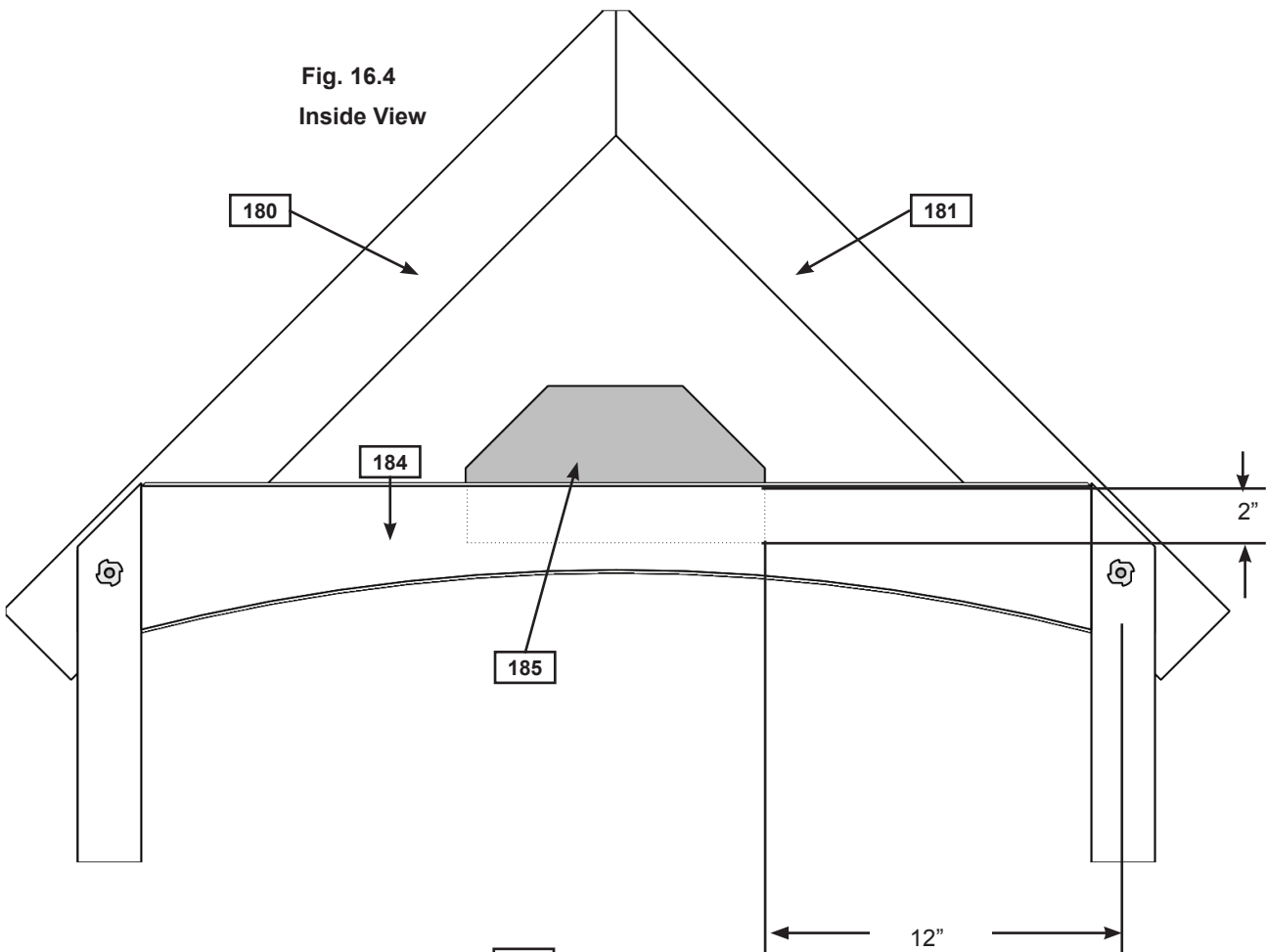
- 1 x (S4) #8 x 3" Wood Screw
- 2 x (G8) 5/16 x 2" Hex Bolt  
(5/16" lock washer, 5/16" flat washer, 5/16" t-nut)

# Step 16: Roof Support Assembly

## Part 2



**D:** Place Roof Support Assembly on the ground with the front facing down then measure 12" from the centre of either bolt hole and 2" down from the top of (184) SW Top and attach 1 (185) Sunburst with 2 (S15) #8 x 1-3/4" Wood Screws to the outside of the assembly. (fig. 16.4 and 16.5)



### Wood Parts

1 x 185 Sunburst FSC 5/4 x 6 x 10"

### Hardware

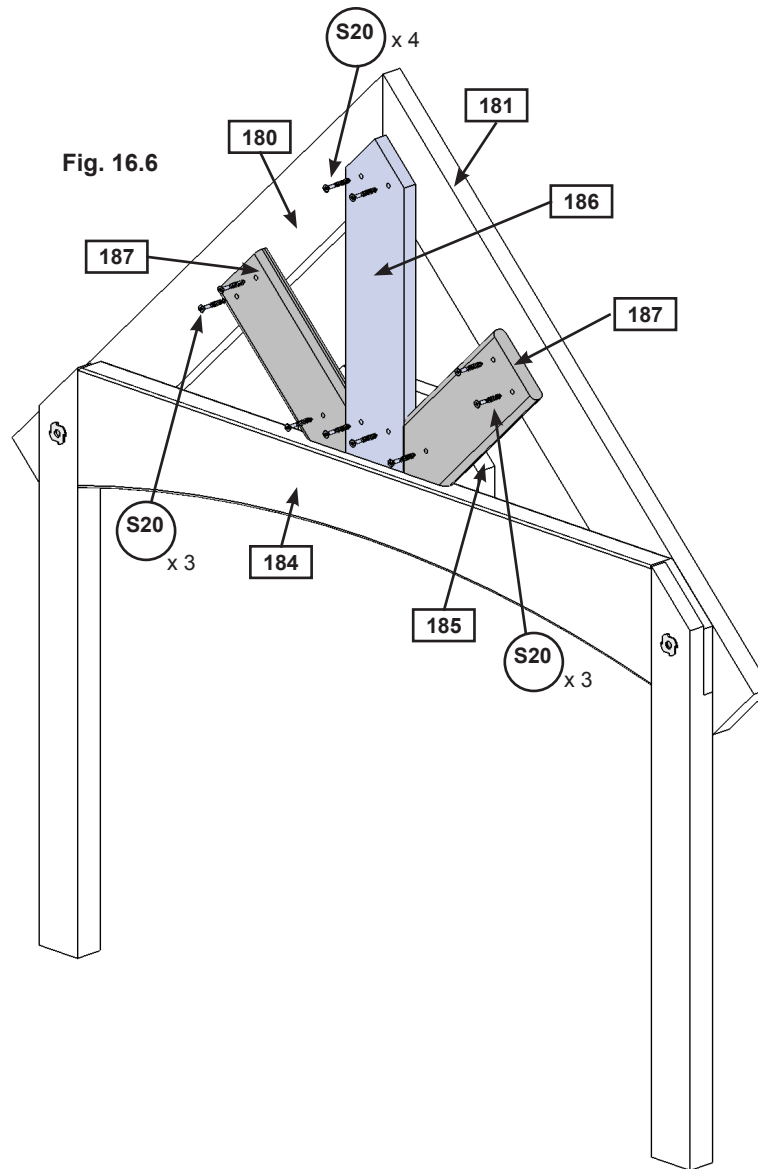
2 x S15 #8 x 1-3/4" Wood Screw

## Step 16: Roof Support Assembly Part 3

**E:** Place (186) Centre Gable on (185) Sunburst, tight to the top of (184) SW Top so the tip is centred at the peak of the Roof Support Assembly. (fig. 16.6)

**F:** Place 1 (187) Side Gable tight to each side of (186) Centre Gable so they are tight to the top of (184) SW Top. (fig. 16.6)

**G:** Attach (186) Centre Gable with 4 (S20) #8 x 1-3/8" Wood Screws, and both (187) Side Gables, with 3 (S20) #8 x 1-3/8" Wood Screws per board, to (185) Sunburst, (180) Roof Support and (181) Roof Support Left, as shown in fig. 16.6.



### Wood Parts

- 1 x 186 Centre Gable FSC 1 x 4 x 13-1/2"
- 2 x 187 Side Gable FSC 1 x 4 x 8-1/2"

### Hardware

- 10 x S20 #8 x 1-3/8" Wood Screw

# Step 17: Gable Angle Support Assembly Part 1



**A:** Attach (190) Right Gable Angle to (191) Left Gable Angle at peak using 1 (S4) #8 x 3" Wood Screw. (fig. 17.1)

**B:** In the bolt holes on (192) Gable Bottom tap in 2 - 5/16" t-nuts then place (192) Gable Bottom on (190) Right Gable Angle and (191) Left Gable Angle so it is flush to the outside edges of the boards. (fig. 17.2)

**C:** Flip the assembly over so the large counter sunk holes are facing up. Attach (192) Gable Bottom to (190) Right Gable Angle and (191) Left Gable Angle with 2 (G8) 5/16 x 2" Hex Bolts (with lock washer and flat washer). (fig. 17.2 and 17.3)

Fig. 17.1

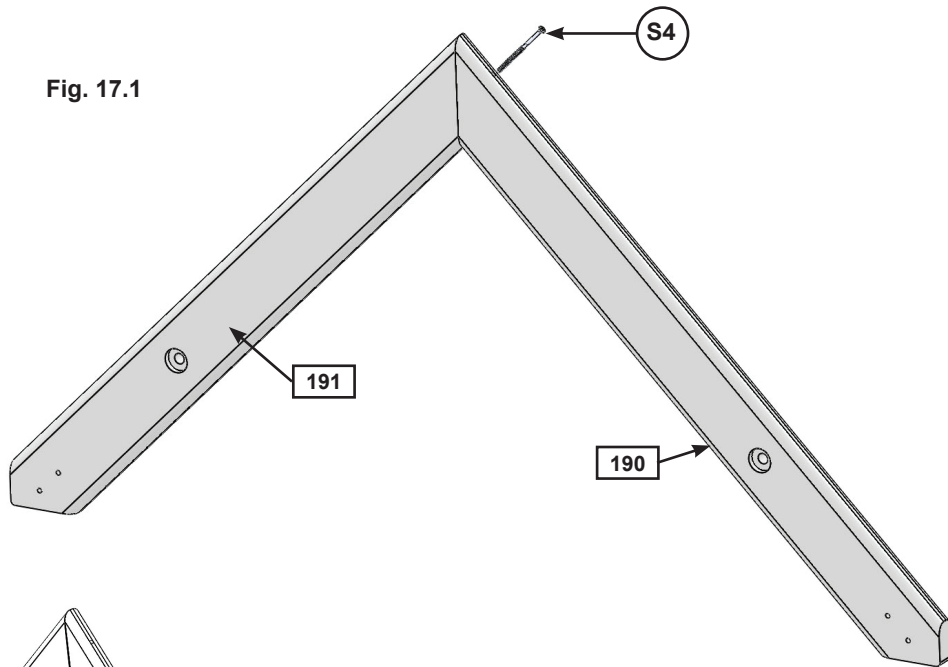


Fig. 17.2

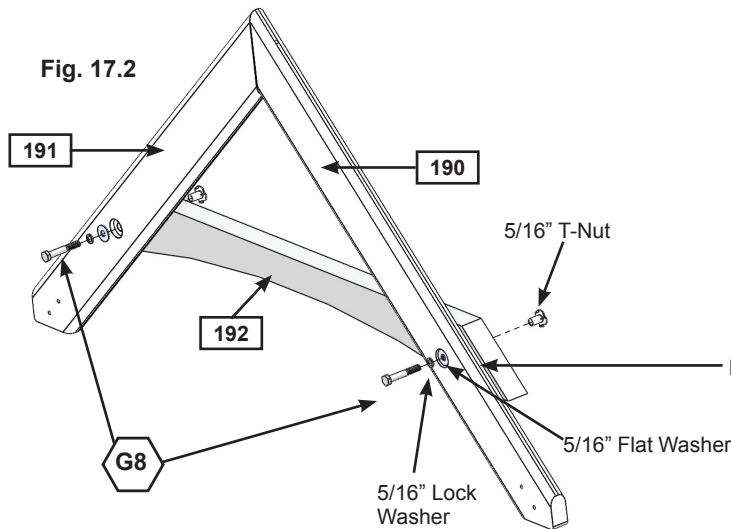
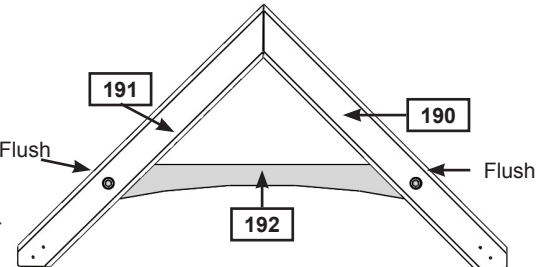


Fig. 17.3



## Wood Parts

- 1 x 190 Right Gable Angle FSC 5/4 x 4 x 31"
- 1 x 191 Left Gable Angle FSC 5/4 x 4 x 31"
- 1 x 192 Gable Bottom FSC 2 x 4 x 34-1/2"

## Hardware

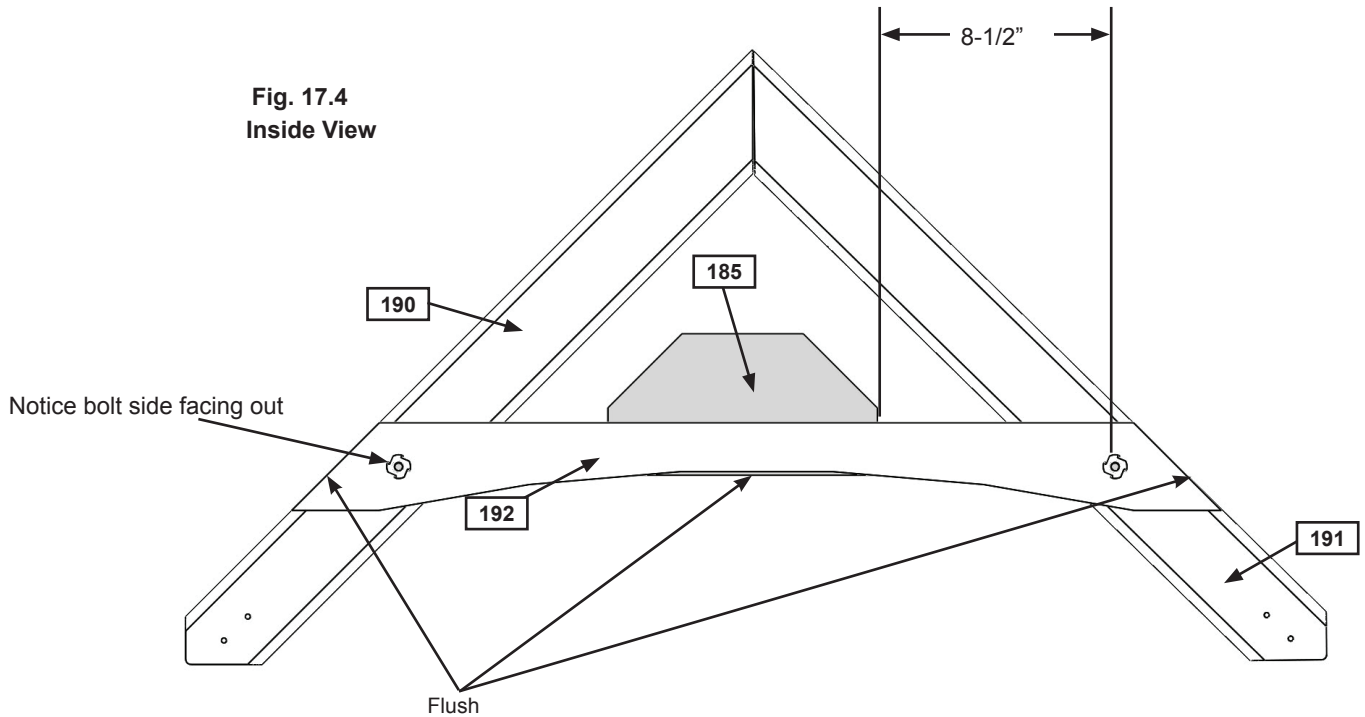
- 1 x S4 #8 x 3" Wood Screw
- 2 x G8 5/16 x 2" Hex Bolt  
(5/16" lock washer, 5/16" flat washer, 5/16" t-nut)

# Step 17: Gable Angle Support Assembly Part 2

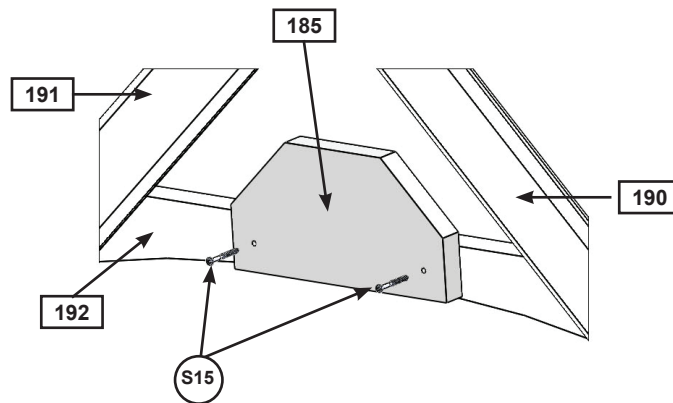


**D:** Measure 8-1/2" from the centre of either bolt hole then place 1 (185) Sunburst on (192) Gable Bottom making sure it is flush to the bottom of (192) Gable Bottom, then attach with 2 (S15) #8 x 1-3/4" Wood Screws to the outside of the assembly. (fig. 17.4 and 17.5)

**Fig. 17.4**  
Inside View



**Fig. 17.5**  
Outside View



## Wood Parts

1 x **185** Sunburst FSC 5/4 x 6 x 10"

## Hardware

2 x **S15** #8 x 1-3/4" Wood Screw

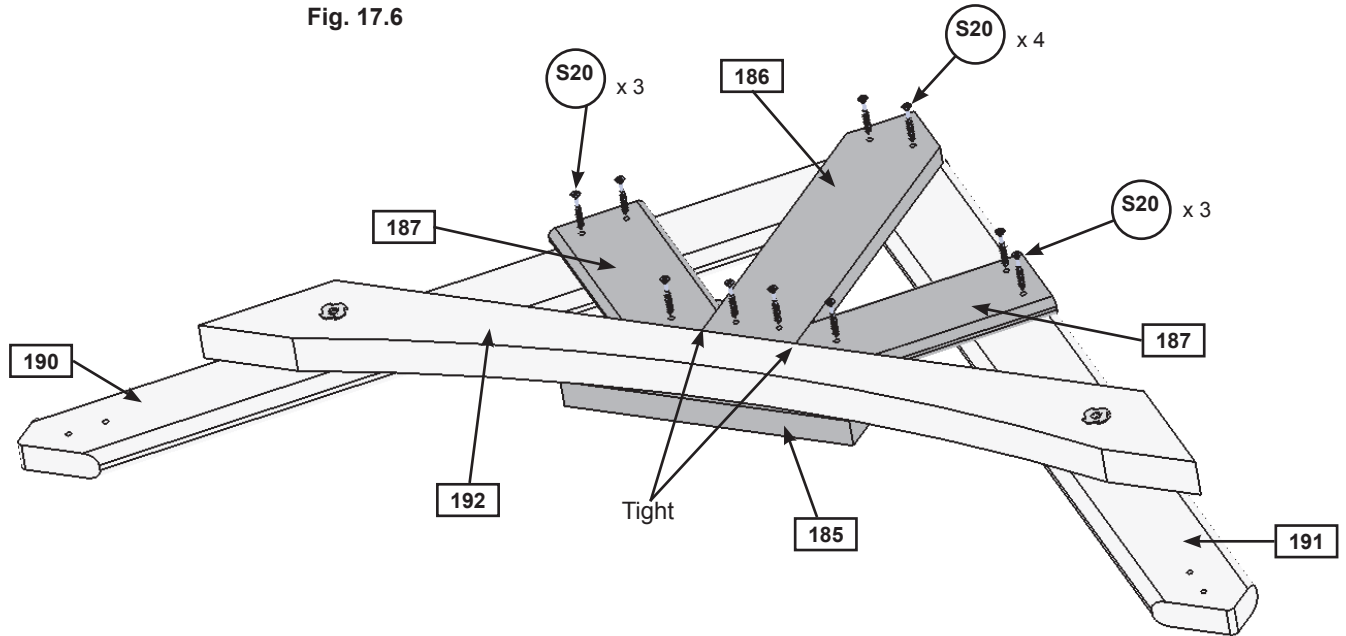
## Step 17: Gable Angle Support Assembly Part 3

**E:** Place (186) Centre Gable on (185) Sunburst, tight to the top of (192) Gable Bottom so the tip is centred at the peak of the Gable Angle Support Assembly. (fig. 17.6)

**F:** Place 1 (187) Side Gable tight to each side of (186) Centre Gable so they are tight to the top of (192) Gable Bottom. (fig. 17.6)

**G:** Attach (186) Centre Gable with 4 (S20) #8 x 1-3/8" Wood Screws and both (187) Side Gables with 3 (S20) #8 x 1-3/8" Wood Screws per board as shown in fig.17.6.

Fig. 17.6



### Wood Parts

- 1 x 186 Centre Gable FSC 1 x 4 x 13-1/2"
- 2 x 187 Side Gable FSC 1 x 4 x 8-1/2"

### Hardware

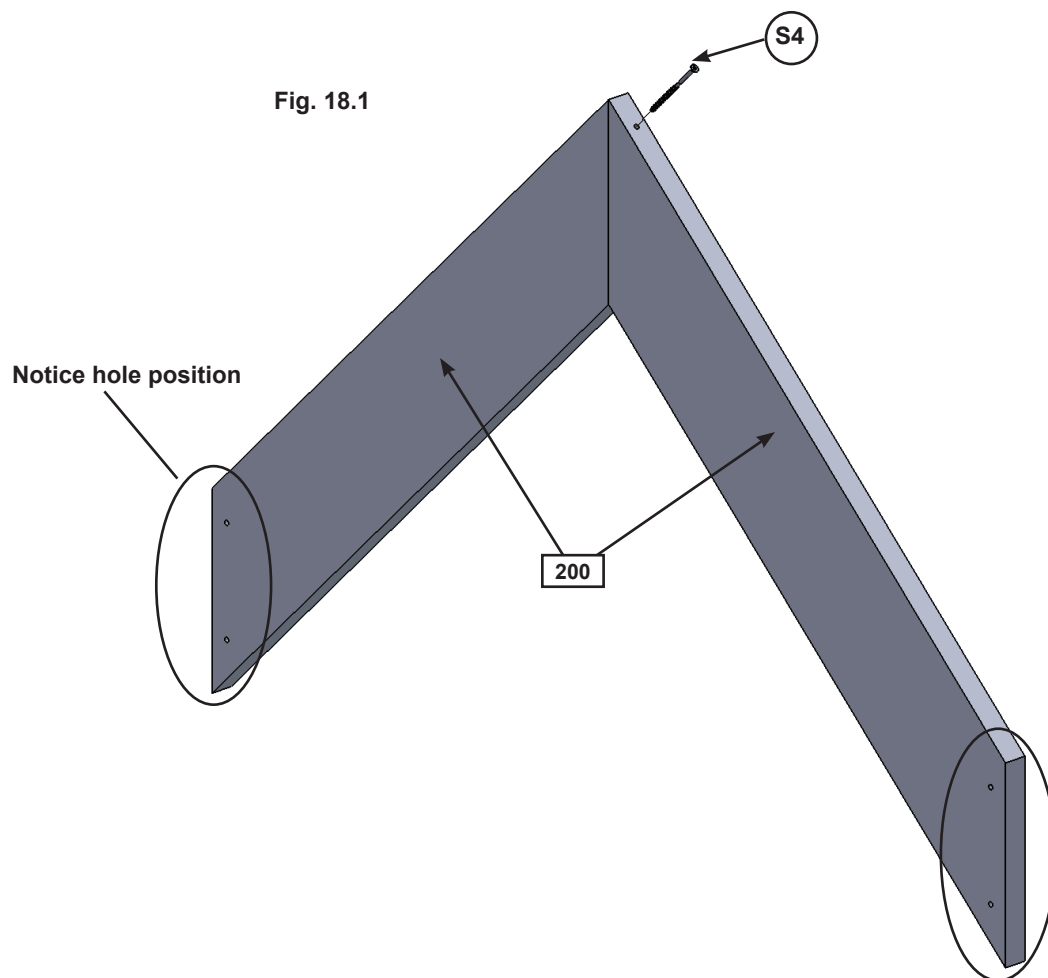
- 10 x S20 #8 x 1-3/8" Wood Screw

## Step 18: Roof Spacer Assembly



**A:** Attach 1 (200) Roof Spacer to another at the peak using 1 (S4) #8 x 3" Wood Screw. Notice the pilot holes are towards the bottom of the board. (fig. 18.1)

**B:** Make sure the assembly is square.



### Wood Parts

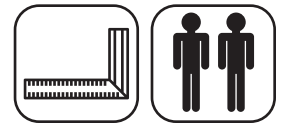
2 x 200 Roof Spacer FSC 5/4 x 6 x 32-1/4"

### Hardware

1 x S4 #8 x 3" Wood Screw

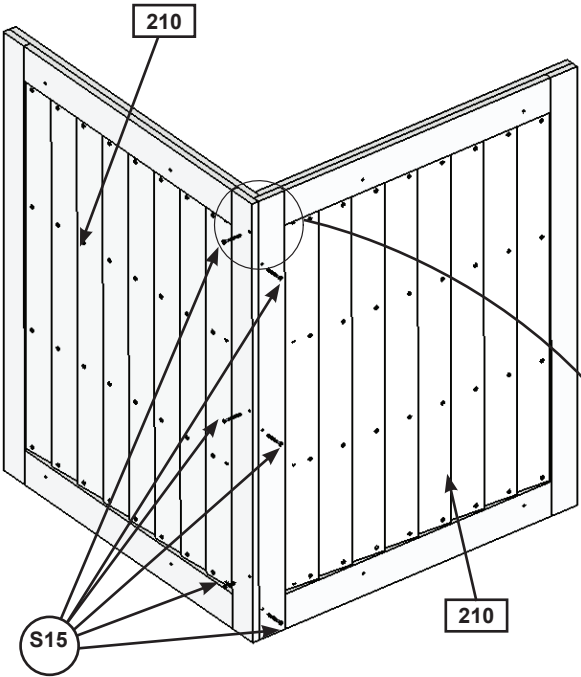
# Step 19: Small and Large Roof Assemblies

## Part 1



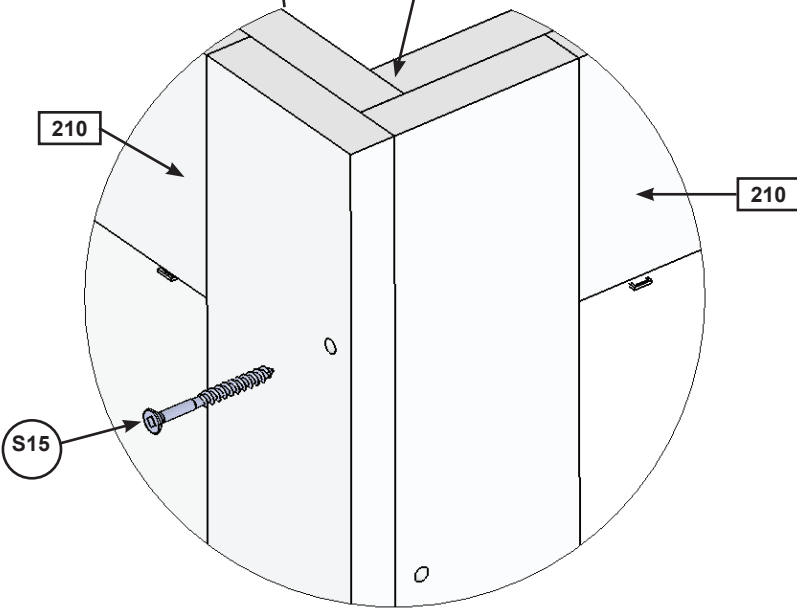
**A:** Connect 1 (210) Large Roof Panel to a second (210) Large Roof Panel so the one panel overlaps the other and the inside angle is square and tight. Attach panels together with 3 (S15) #8 x 1-3/4" Wood Screws per panel. (fig. 19.1 and 19.2)

Fig. 19.1



Notice overlap is flush

Fig. 19.2



### Wood Parts

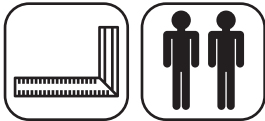
2 x **210** Large Roof Panel FSC 1-1/4 x 31-3/4 x 41"

### Hardware

6 x **S15** #8 x 1-3/4" Wood Screw

# Step 19: Small and Large Roof Assemblies

## Part 2



**B:** Connect 1 (211) Small Roof Panel to a second (211) Small Roof Panel so the one panel overlaps the other and the inside angle is square and tight. Attach panels together with 3 (S15) #8 x 1-3/4" Wood Screws per panel. (fig. 19.3 and 19.4)

Fig. 19.4

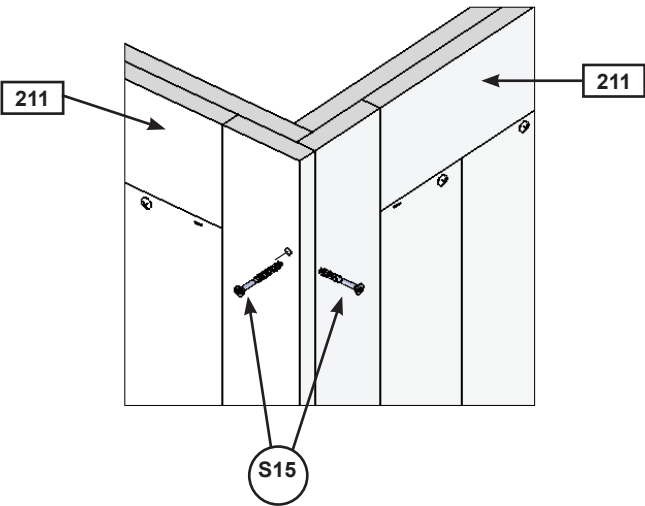
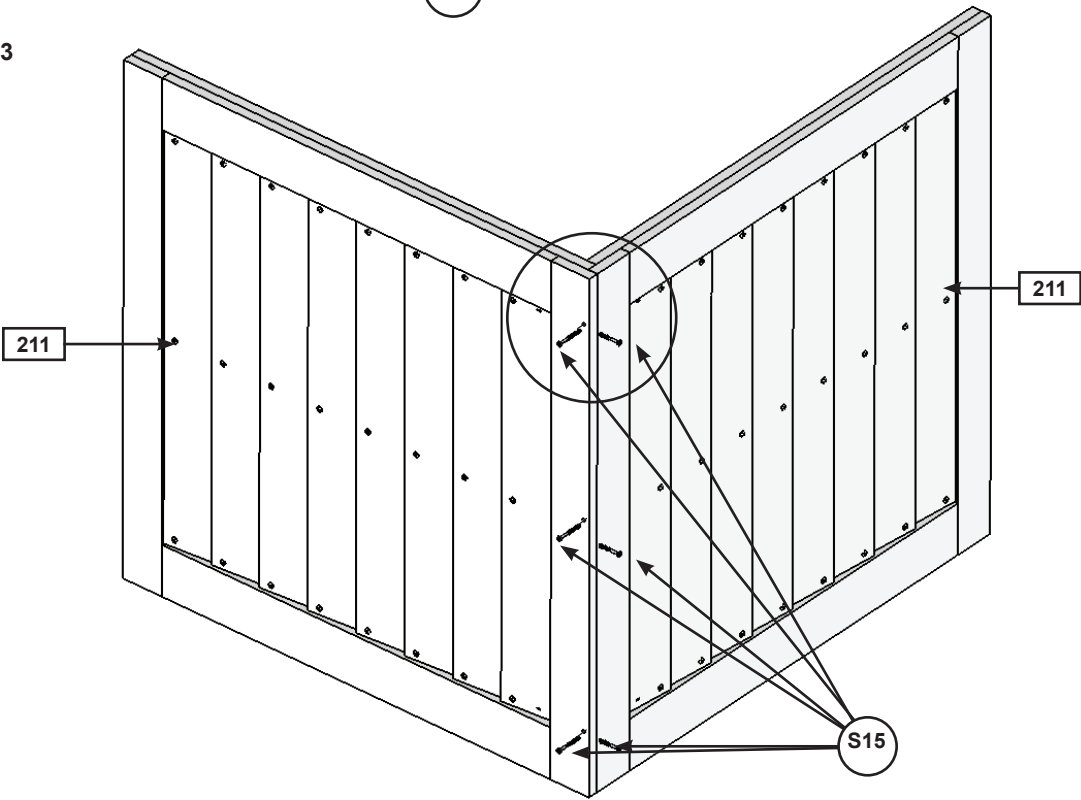


Fig. 19.3



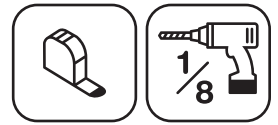
**Wood Parts**

2 x 211 Small Roof Panel FSC 1-1/4 x 31-3/4 x 32-1/2"

**Hardware**

6 x S15 #8 x 1-3/4" Wood Screw

## Step 19: Small and Large Roof Assemblies Part 3



**C:** Place Roof Spacer Assembly from Step 18, on top of the Small Roof Assembly, flush to the edge as shown in fig. 19.5.

**D:** Measure 1/2" in from the edge and 7" up from the bottom of each (211) Small Roof Panel and mark. Follow with 11" up from the first mark and then 11" up from the second mark. Pre-drill with a 1/8" drill bit at all 6 marks. (fig. 19.6 and 19.7)

**E:** Attach Roof Spacer Assembly to Small Roof Assembly with 3 (S3) #8 x 2-1/2" Wood Screws per side. (fig. 19.6 and 19.7)

Fig. 19.5

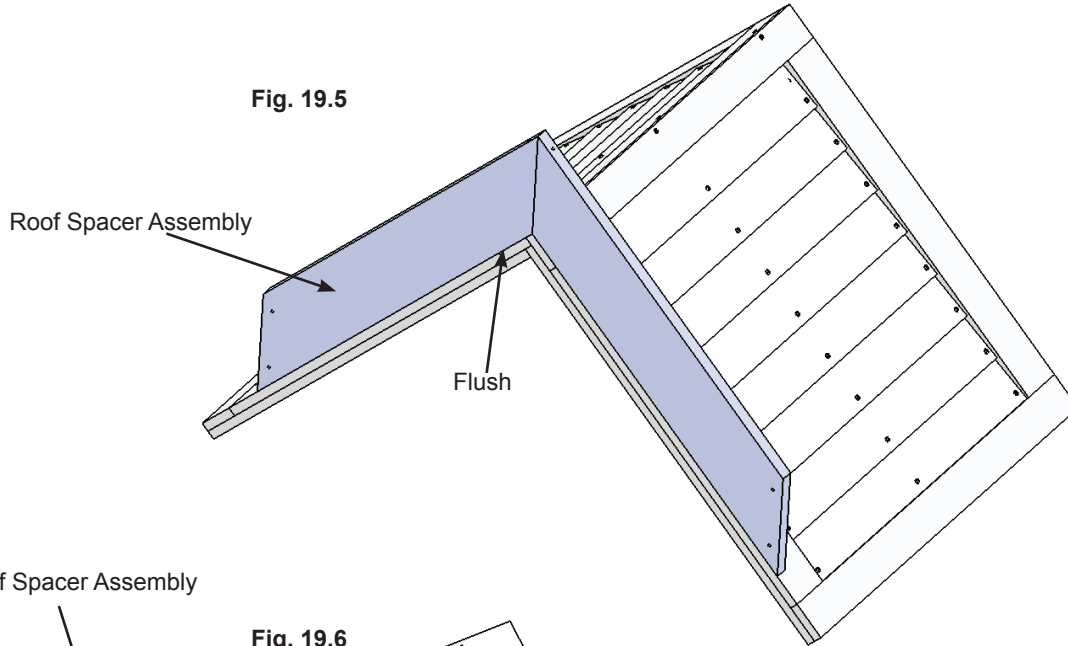


Fig. 19.6

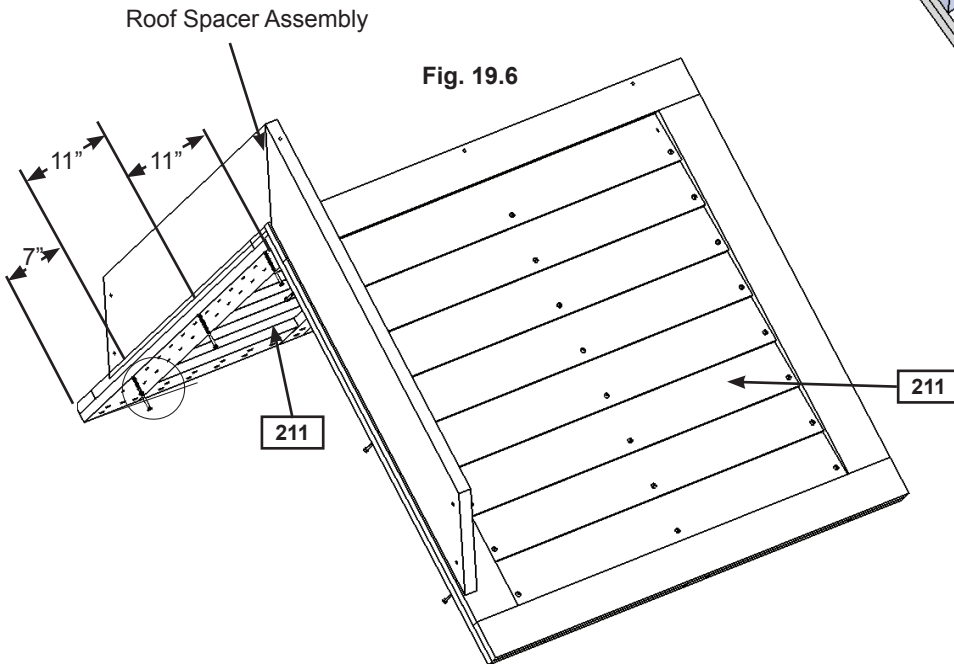
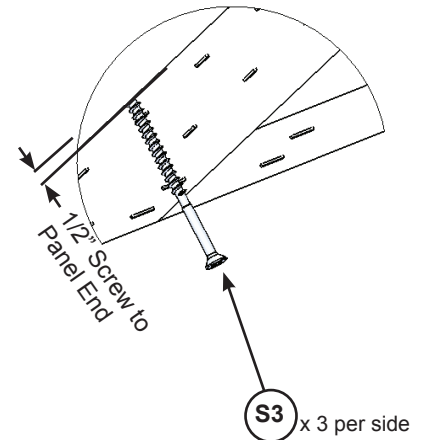


Fig. 19.7



### Hardware

6 x (S3) #8 x 2-1/2" Wood Screw

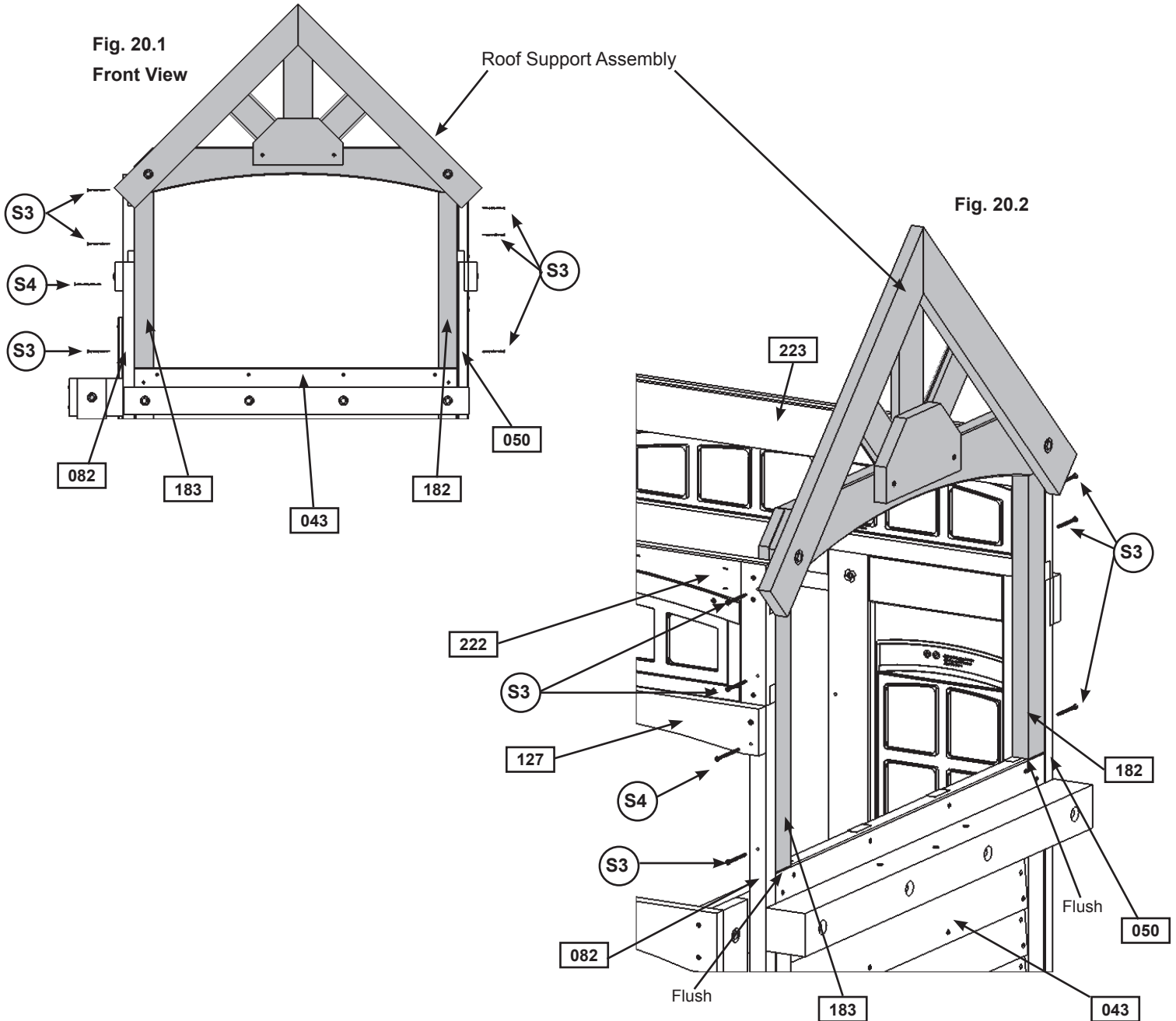
# Step 20: Attach Roof Support Assemblies Part 1



**A:** Place Roof Support Assembly, from Step 16, Part 3, on the top of (043) SW Side Panel, flush to the front. (fig. 20.1 and 20.2)

**B:** Attach (182) Top Post Right to (050) Narrow Window Panel with 1 (S3) #8 x 2-1/2" Wood Screws and to (223) B Transom with 2 (S3) #8 x 2-1/2" Wood Screws. (fig. 20.1 and 20.2)

**C:** Attach (183) Top Post Left to (082) SL Post with 1 (S3) #8 x 2-1/2" Wood Screw, to (127) Front Top with 1 (S4) #8 x 3" Wood Screw and to (222) F Transom with 2 (S3) #8 x 2-1/2" Wood Screws. (fig. 20.1 and 20.2)



## Hardware

6 x (S3) #8 x 2-1/2" Wood Screw

1 x (S4) #8 x 3" Wood Screw

## Step 20: Attach Roof Support Assemblies Part 2



**D:** Make sure the distance between (040) Wall Cafe Window Panel and (050) Narrow Window Panel is 36". (fig. 20.3 and 20.4)

**E:** On the Slide Side, attach Gable Angle Support Assembly, from Step 17, Part 3, to the ends of (127) Front Top, (040) Wall Cafe Window Panel, (100) Back Top and (050) Narrow Window Panel with 2 (S4) #8 x 3" Wood Screws per side as shown in fig. 20.4. (190) Right Gable Angle and (191) Left Gable Angle must be flush to the tops of (127) Front Top and (100) Back Top.

Fig. 20.3

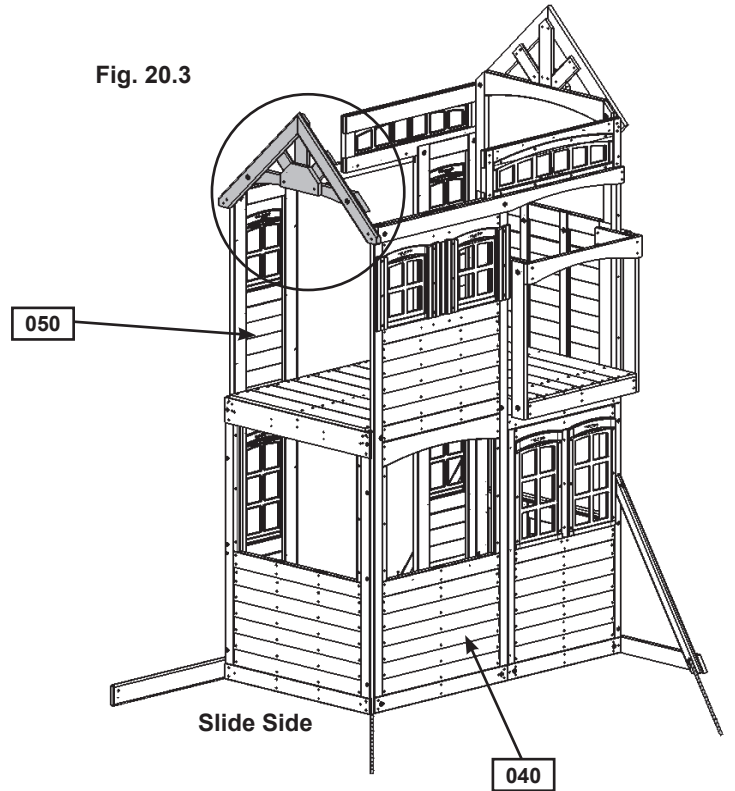
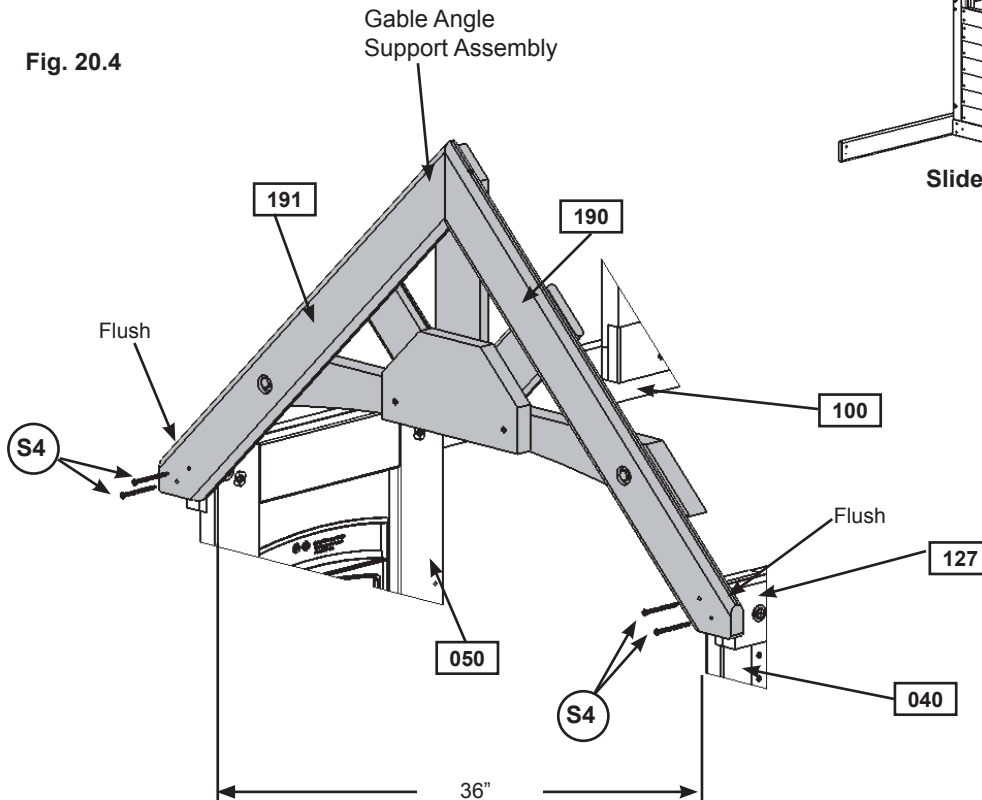


Fig. 20.4



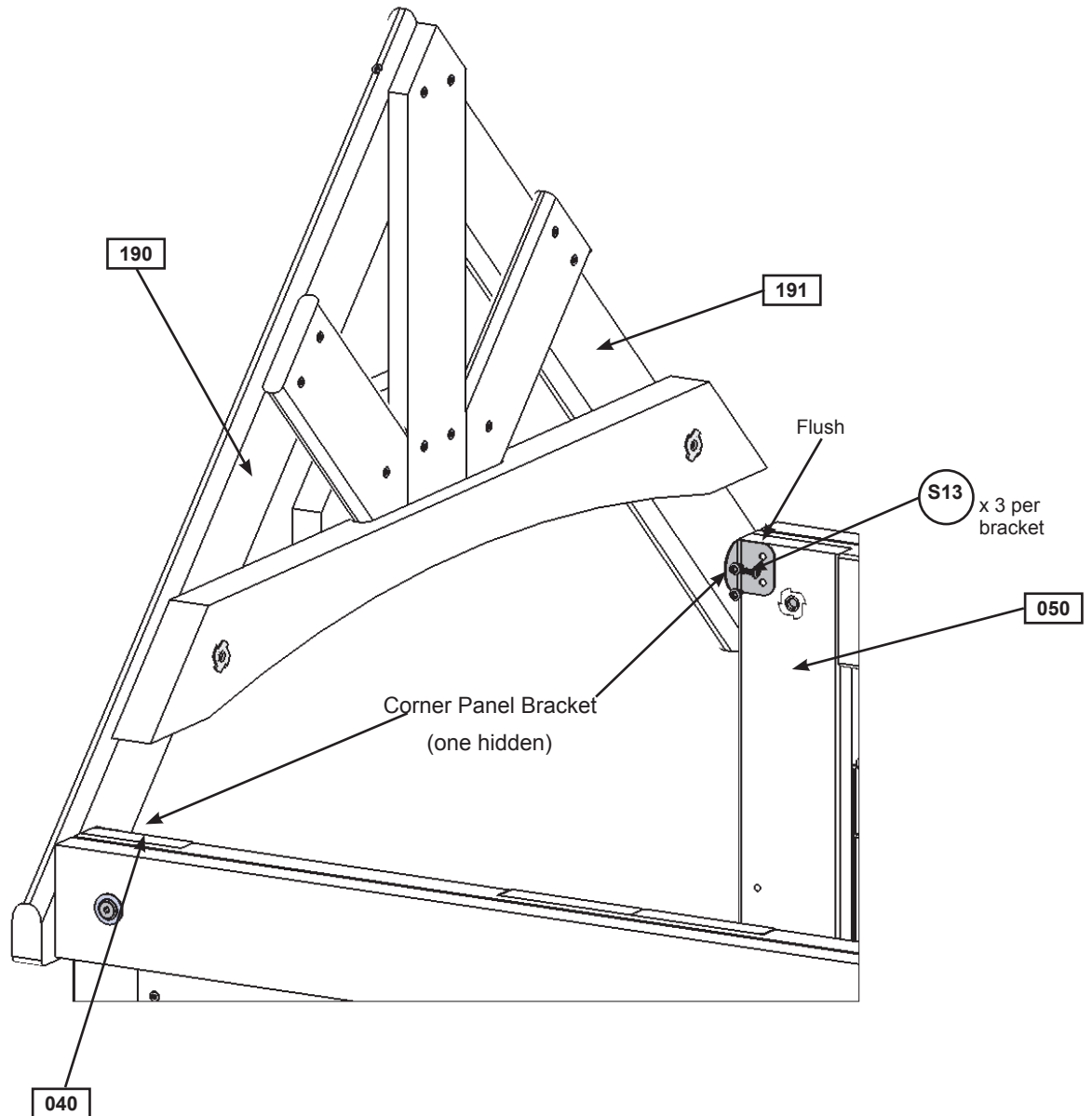
### Hardware

4 x (S4) #8 x 3" Wood Screw

## Step 20: Attach Roof Support Assemblies Part 3

**F:** From inside the assembly attach (191) Left Gable Angle to (050) Narrow Window Panel and (190) Right Gable Angle to (040) Cafe Wall Window Panel using 1 Corner Panel Bracket with 3 (S13) #6 x 5/8" Pan Screws per side. (fig. 20.5)

Fig. 20.5



### Hardware

6 x (S13) #6 x 5/8" Pan Screw

### Other Parts

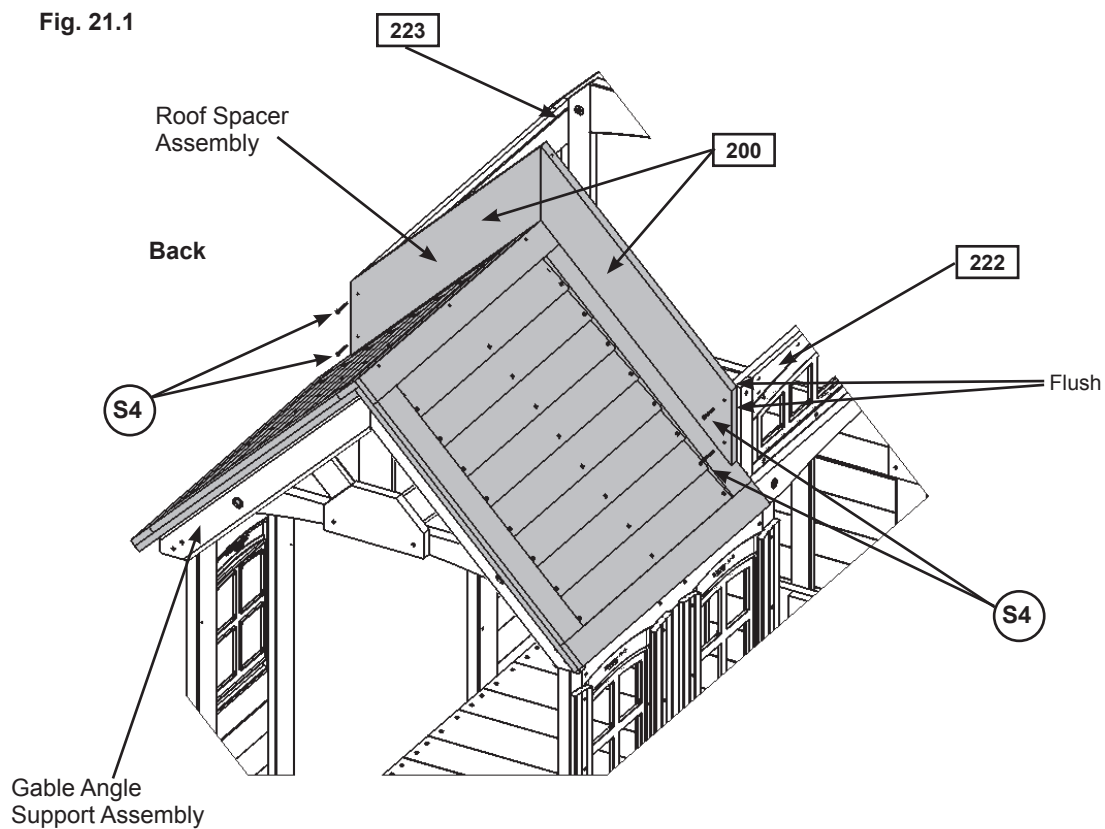
2 x Corner Panel Bracket

## Step 21: Attach Roof Assemblies to Fort Part 1



**A:** With 2 people on the ground and at least 1 person in the fort, lift the Small Roof Assembly with Roof Spacer Assembly, from Step 19, Part 3, up and over the Back side of the fort. Guide the Roof Assembly onto the fort so the Roof Spacer Assembly sits flush to the top and outside edges of both (222) F Transom and (223) B Transom. (fig. 21.1)

**B:** Attach each (200) Roof Spacer to (222) F Transom and (223) B Transom with 2 (S4) #8 x 3" Wood Screws per side. (fig. 21.1)



### Hardware

4 x (S4) #8 x 3" Wood Screw

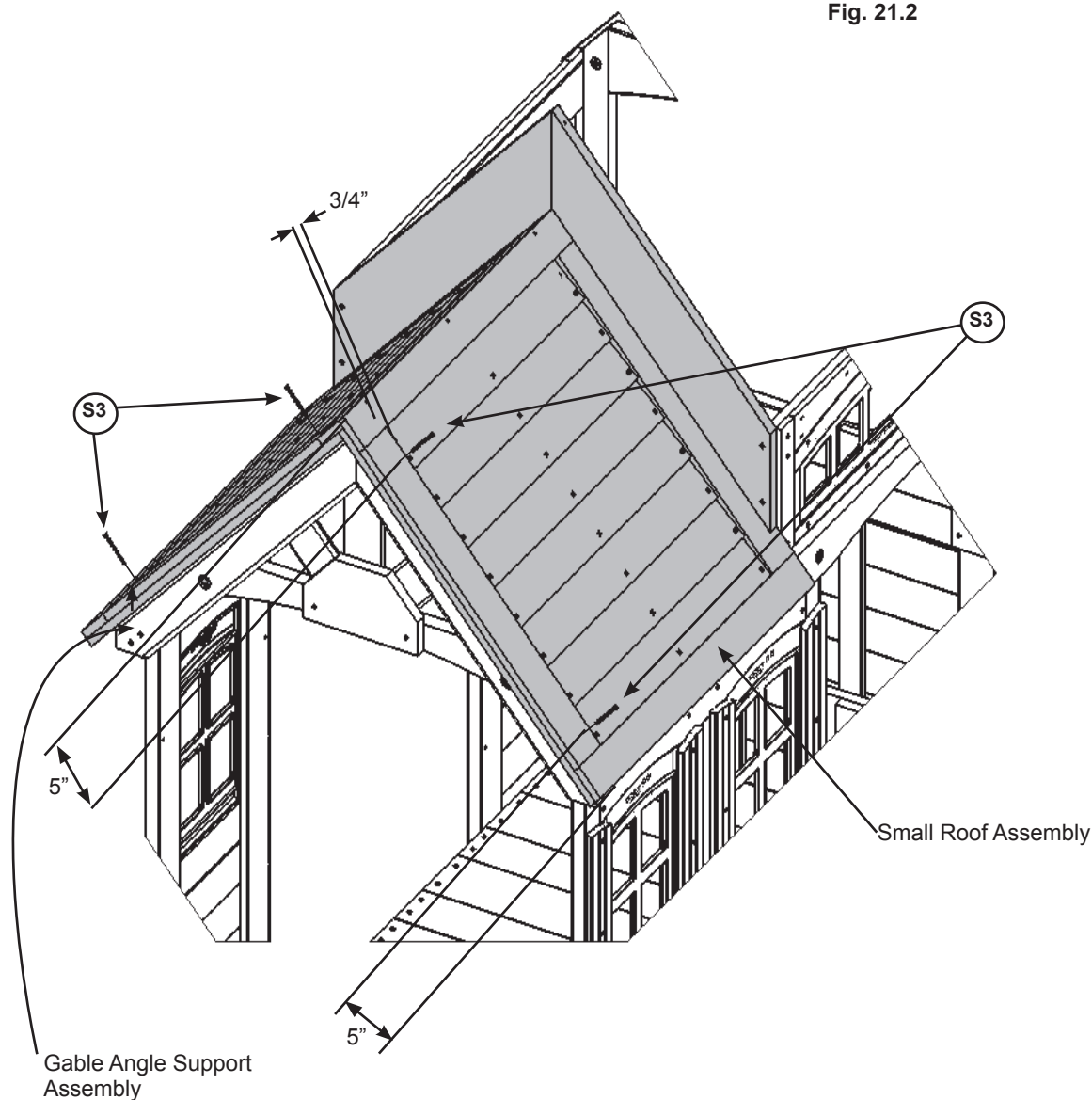
## Step 21: Attach Roof Assemblies to Fort Part 2



**C:** Make sure the Small Roof Assembly lays flat on the Gable Angle Support Assembly and it overhangs by 2". (fig. 21.2)

**D:** Measure 3/4" from the edge, 5" up from the ends of both panels and 5" down from the peak on each panel, pre-drill with a 1/8" drill bit then attach the Small Roof Assembly to the Gable Angle Support Assembly with 2 (S3) #8 x 2-1/2" Wood Screws per side, as shown in fig. 21.2.

Fig. 21.2



### Hardware

4 x (S3) #8 x 2-1/2" Wood Screw

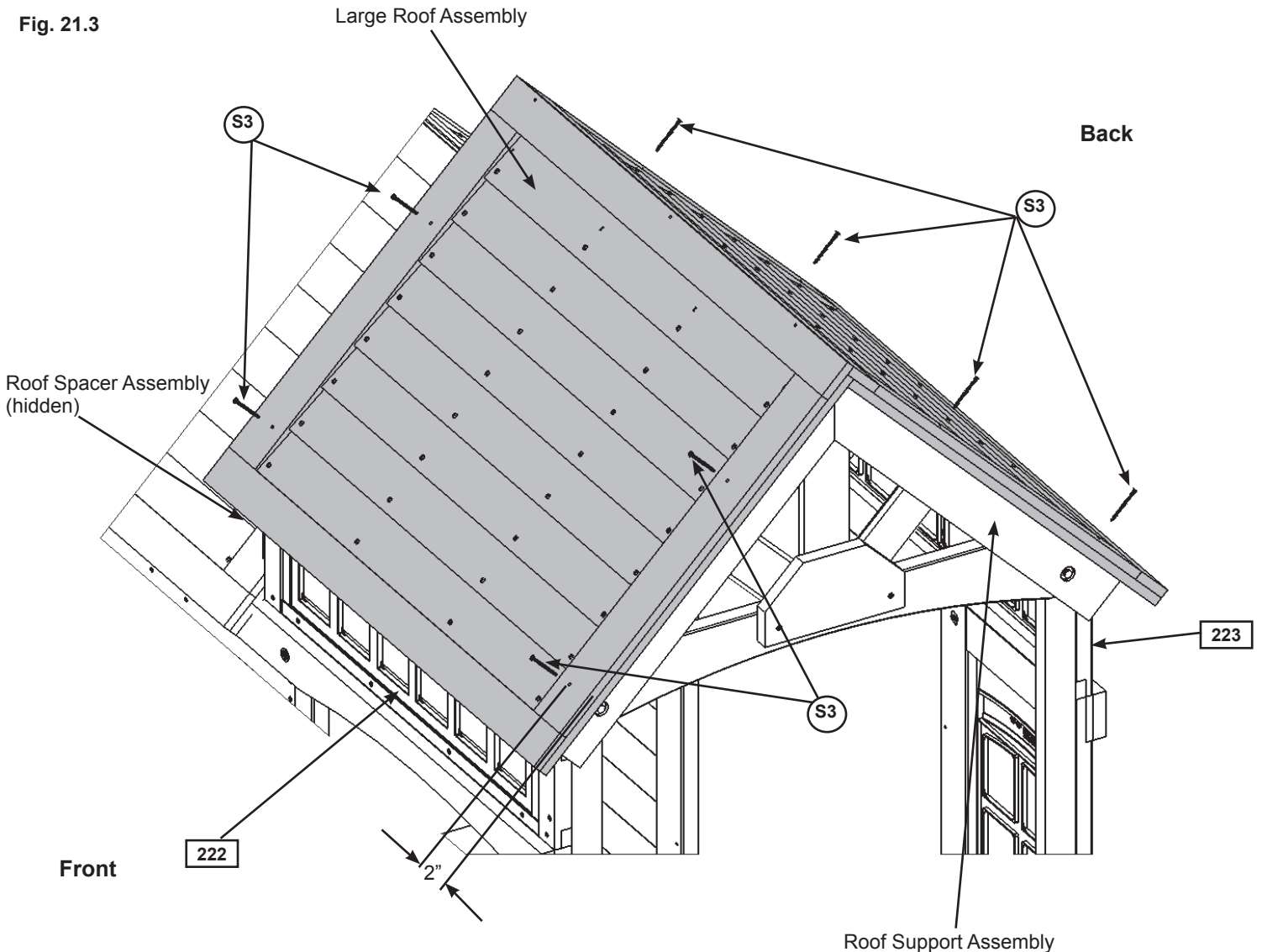
## Step 21: Attach Roof Assemblies to Fort Part 3



**E:** With 2 people on the ground and at least 1 person in the fort, lift the Large Roof Assembly, from Step 19, Part 1, up and over the Back side of the fort. Guide the Roof Assembly onto the fort so it sits on top of the Roof Support Assembly, (222) F Transom and (223) B Transom and Roof Spacer Assembly. (fig. 21.3)

**F:** Make sure the Large Roof Assembly lays flat on the Roof Support Assembly and it overhangs by 2". (fig. 21.3)

**G:** Using the factory drilled holes as a guide attach the Large Roof Assembly to the Roof Support Assembly and Roof Spacer Assembly with 4 (S3) #8 x 2-1/2" Wood Screws side as shown in fig. 21.3.



### Hardware

8 x (S3) #8 x 2-1/2" Wood Screw

# Step 22: Lower Crowsnest Assembly

## Part 1

**A:** Attach 1 (330) Crowsnest Side flush to the inside edge of the panel post on both (050) Narrow Window Panel and (040) Wall Cafe Window Panel using 3 (S15) #8 x 1-3/4" Wood Screws per side. Each (330) Crowsnest Side must sit tight to top of (152) Floor. Notice pilot holes towards bottom of boards. (fig. 22.1 and 22.2)

Fig. 22.1

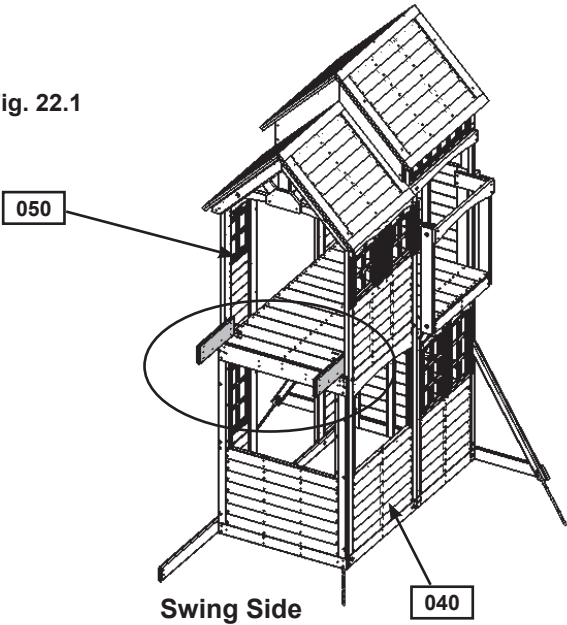
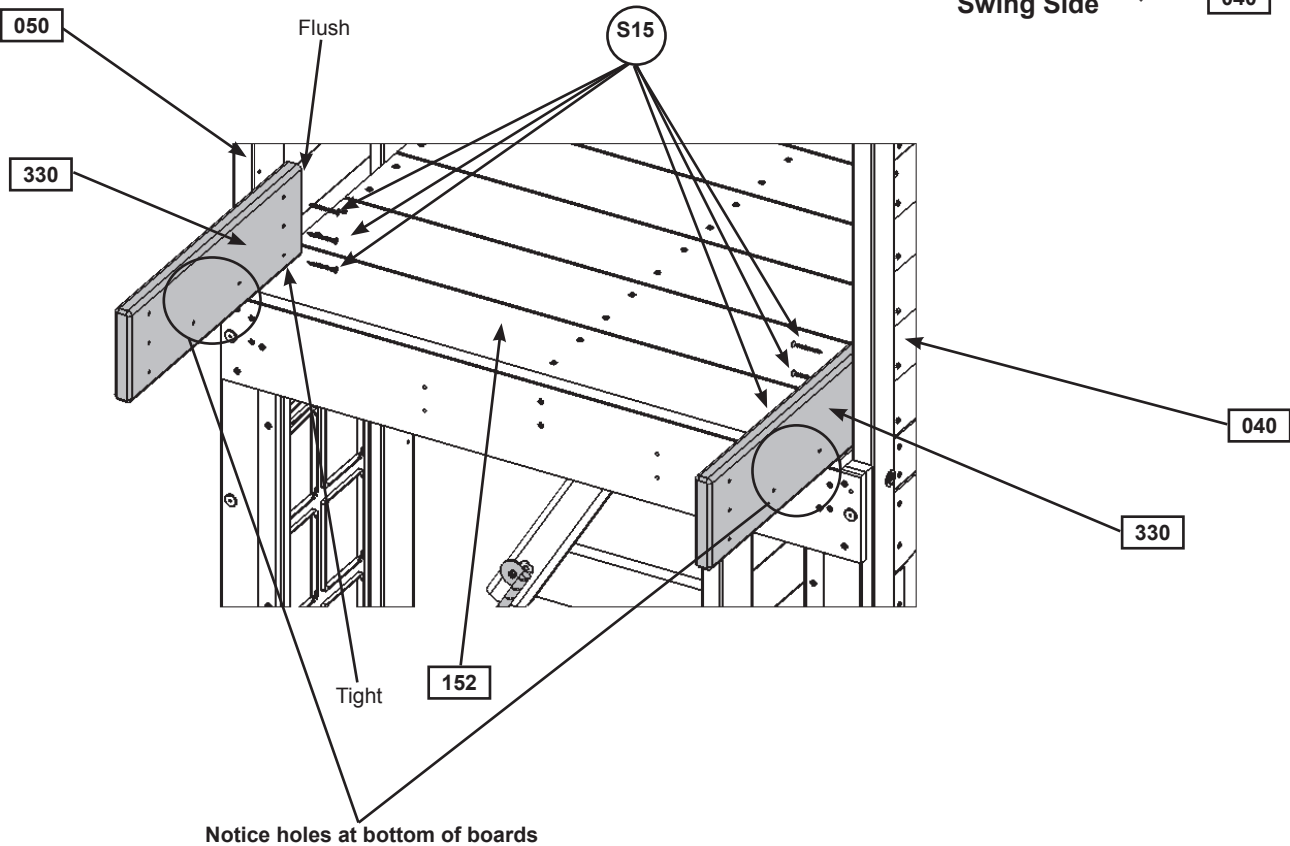


Fig. 22.2



### Wood Parts

2 x 330 Crowsnest Side FSC 5/4 x 6 x 18"

### Hardware

6 x S15 #8 x 1-3/4" Wood Screw

# Step 22: Lower Crowsnest Assembly Part 2

**B:** Attach 4 (333) Crowsnest Joists to (332) Crowsnest Front and (331) Crowsnest Back using 4 (S3) #8 x 2-1/2" Wood Screws per joist as shown in fig. 22.3.

**C:** Flush to the bottom of each (330) Crowsnest Side attach assembly just built using 3 (S15) #8 x 1-3/4" Wood Screws per board. (332) Crowsnest Front is to face out and (331) Crowsnest Back is to face towards the fort. (fig. 22.4)

Fig. 22.3

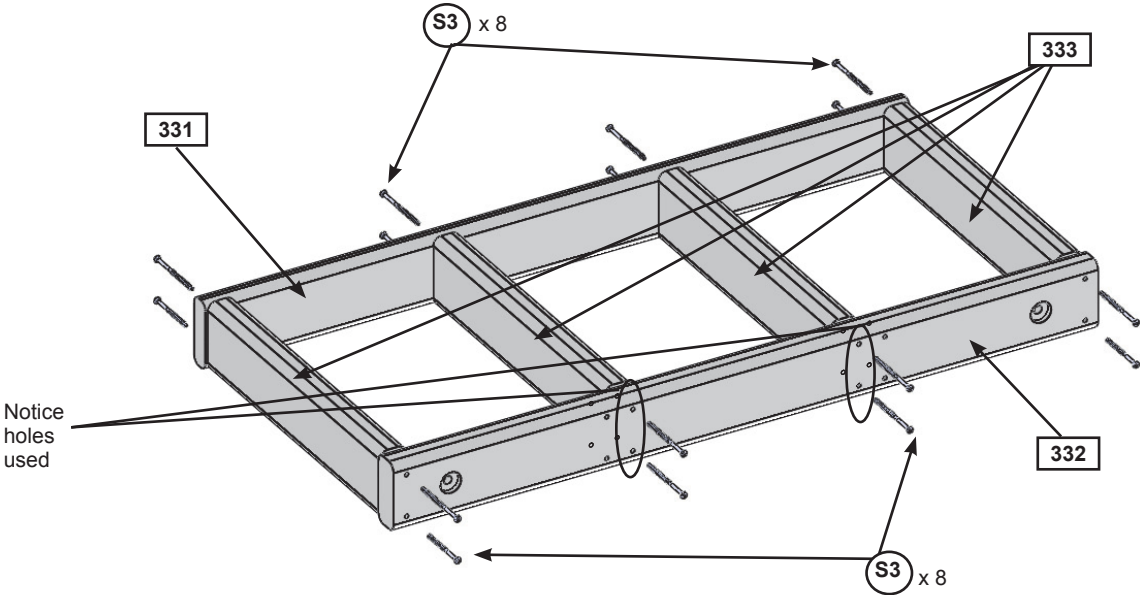
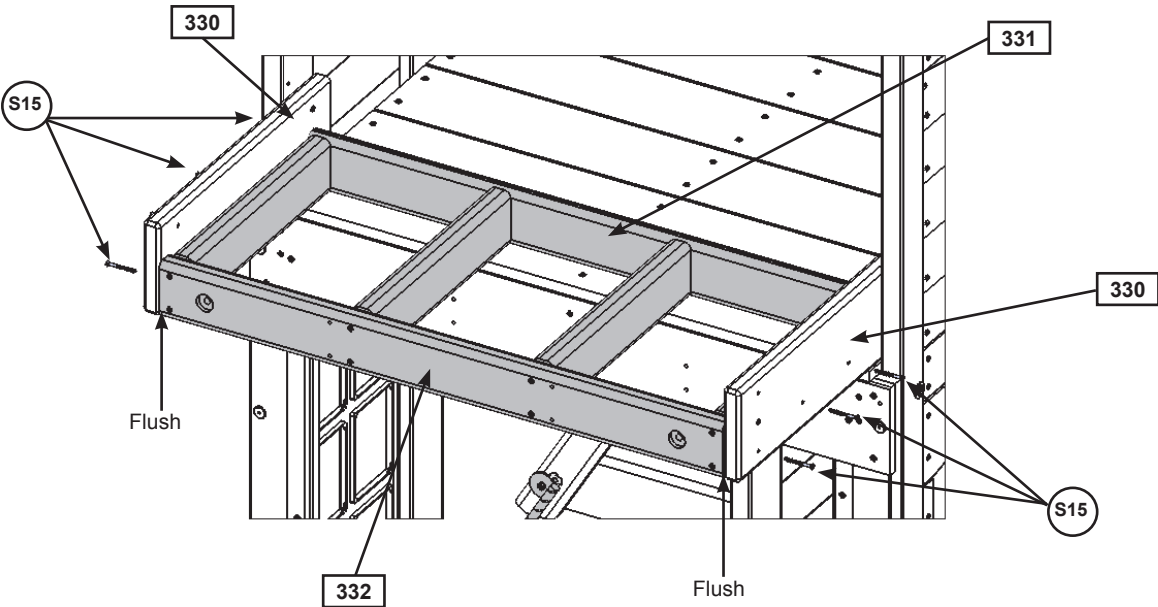


Fig. 22.4



Wood Parts	
1 x	331 Crowsnest Back FSC 5/4 x 4 x 33-7/8"
1 x	332 Crowsnest Front FSC 2 x 4 x 33-7/8"
4 x	333 Crowsnest Joist FSC 2 x 4 x 14-5/16"

Hardware	
16 x	S3 #8 x 2-1/2" Wood Screw
6 x	S15 #8 x 1-3/4" Wood Screw

# Step 23: Upper Crowsnest Assembly Part 1



**A:** Attach (340) Crowsnest SL Top to 2 (341) Crowsnest Uprights using 2 (G8) 5/16 x 2" Hex Bolts (with lock washer, flat washer and t-nut), making sure the notched ends are facing out. (fig. 23.1)

**B:** Attach 1 (342) Crowsnest Short to (340) Crowsnest SL Top using 6 (S15) #8 x 1-3/4" Wood Screws as shown in fig. 23.2.

Fig. 23.1

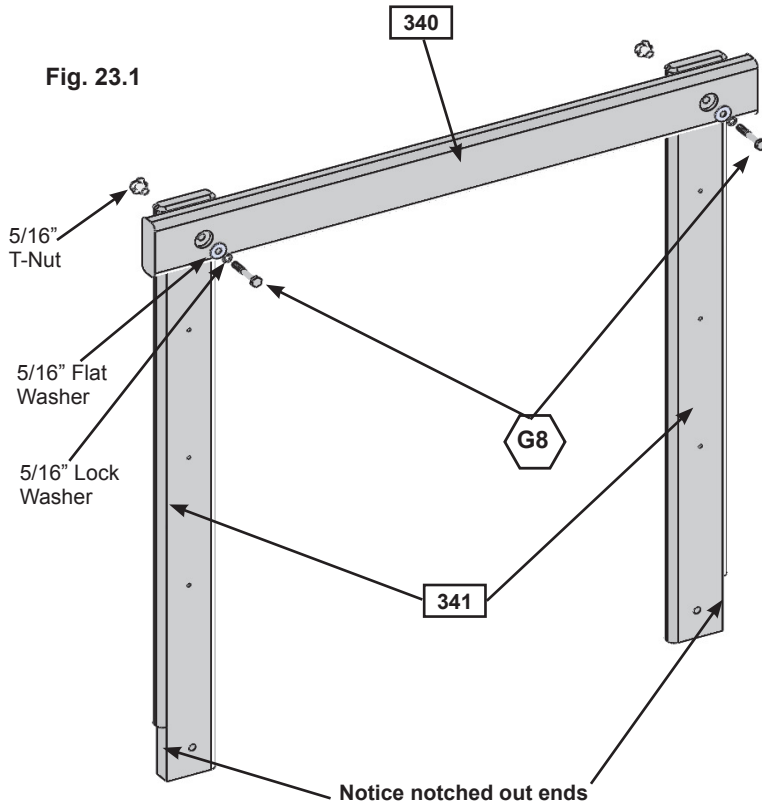
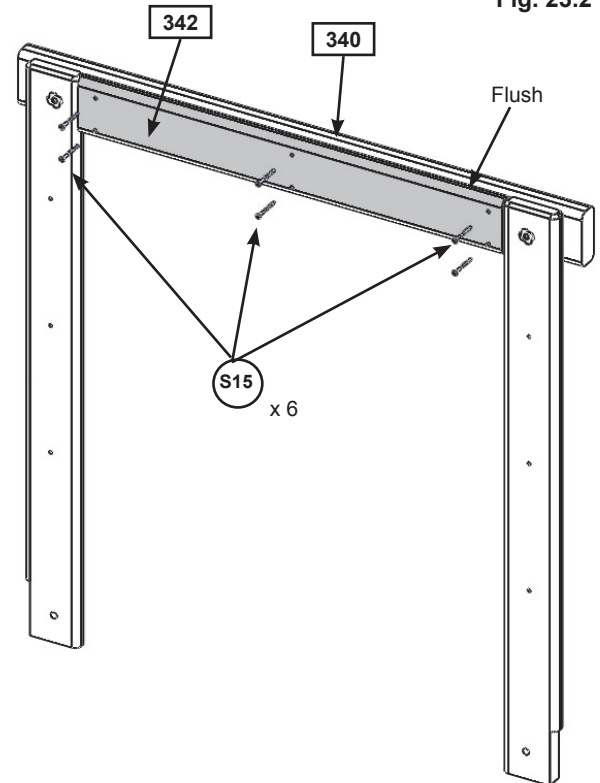


Fig. 23.2



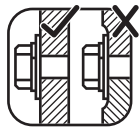
## Wood Parts

- 1 x 340 Crowsnest SL Top FSC 2 x 4 x 33-7/8"
- 2 x 341 Crowsnest Upright FSC 5/4 x 4 x 34-1/4"
- 1 x 342 Crowsnest Short FSC 5/4 x 4 x 25-1/2"

## Hardware

- 6 x S15 #8 x 1-3/4" Wood Screw
- 2 x G8 5/16 x 2" Hex Bolt  
(5/16" lock washer, 5/16" flat washer, 5/16" t-nut)

# Step 23: Upper Crowsnest Assembly Part 2



**B:** Attach the bottom of each (341) Crowsnest Upright to (332) Crowsnest Front using 2 (G8) 5/16 x 2" Hex Bolts (with lock washer, flat washer and t-nut). (fig. 23.2 and 23.3)

Fig. 23.2

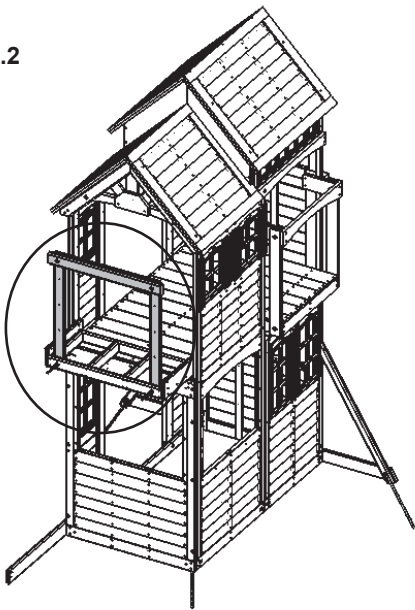
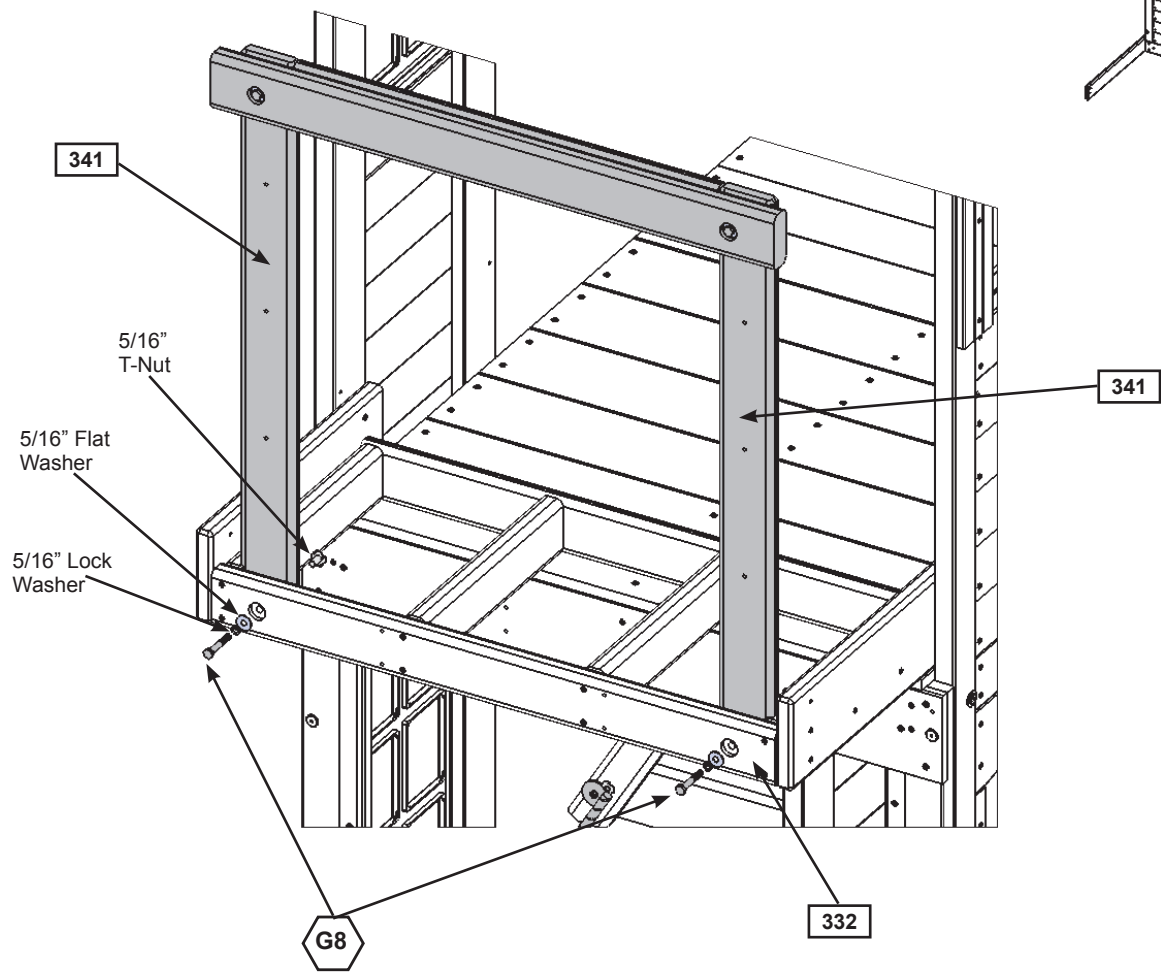


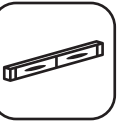
Fig. 23.3



**Hardware**

2 x  5/16 x 2" Hex Bolt  
(5/16" lock washer, 5/16" flat washer, 5/16" t-nut)

## Step 24: Crowsnest Floor Assembly Part 1



**A:** Make sure the frame is level, then attach 1 (334) Crowsnest Gusset flush to the top of (332) Crowsnest Front, to each of the interior (333) Crowsnest Joists on the outside of each joist using 1 (S3) #8 x 2-1/2" Wood Screw per Gusset. (fig. 24.1 and 24.2)

**B:** Attach each (334) Crowsnest Gusset to (332) Crowsnest Front in the remaining holes using 2 (S4) #8 x 3" Wood Screws per gusset. (fig. 24.1 and 24.2)

Fig. 24.1

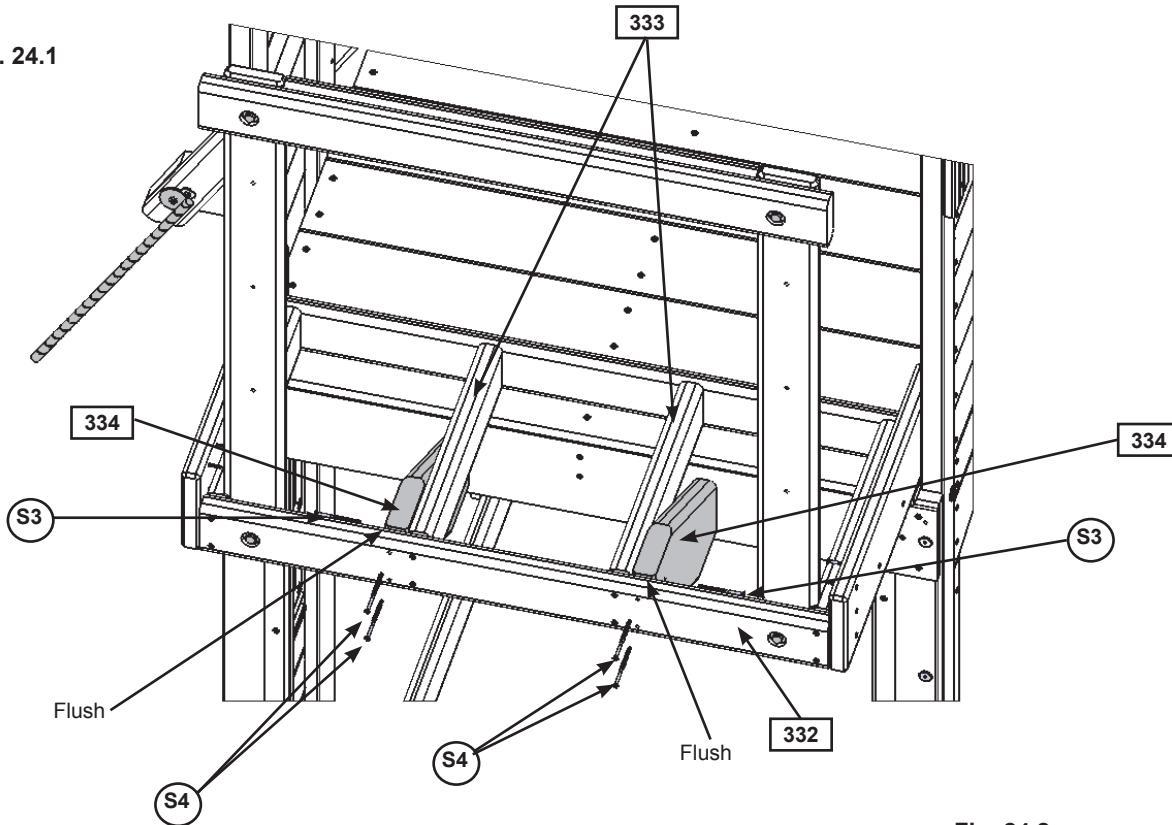
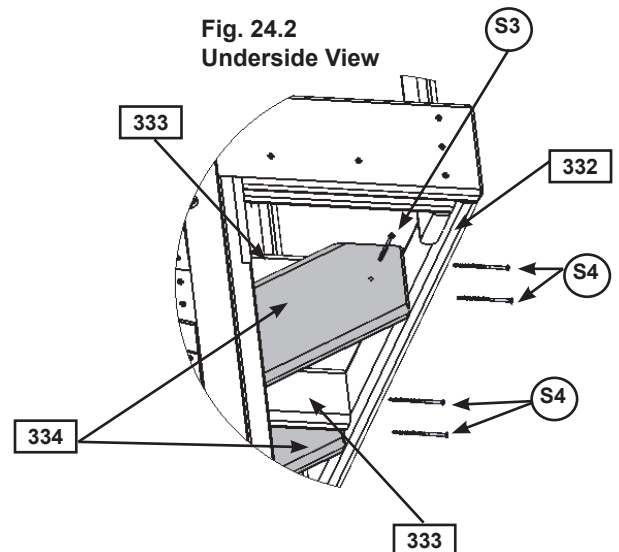


Fig. 24.2  
Underside View



### Wood Parts

2 x **334** Crowsnest Gusset FSC 2 x 6 x 15"

### Hardware

2 x **S3** #8 x 2-1/2" Wood Screw

4 x **S4** #8 x 3" Wood Screw

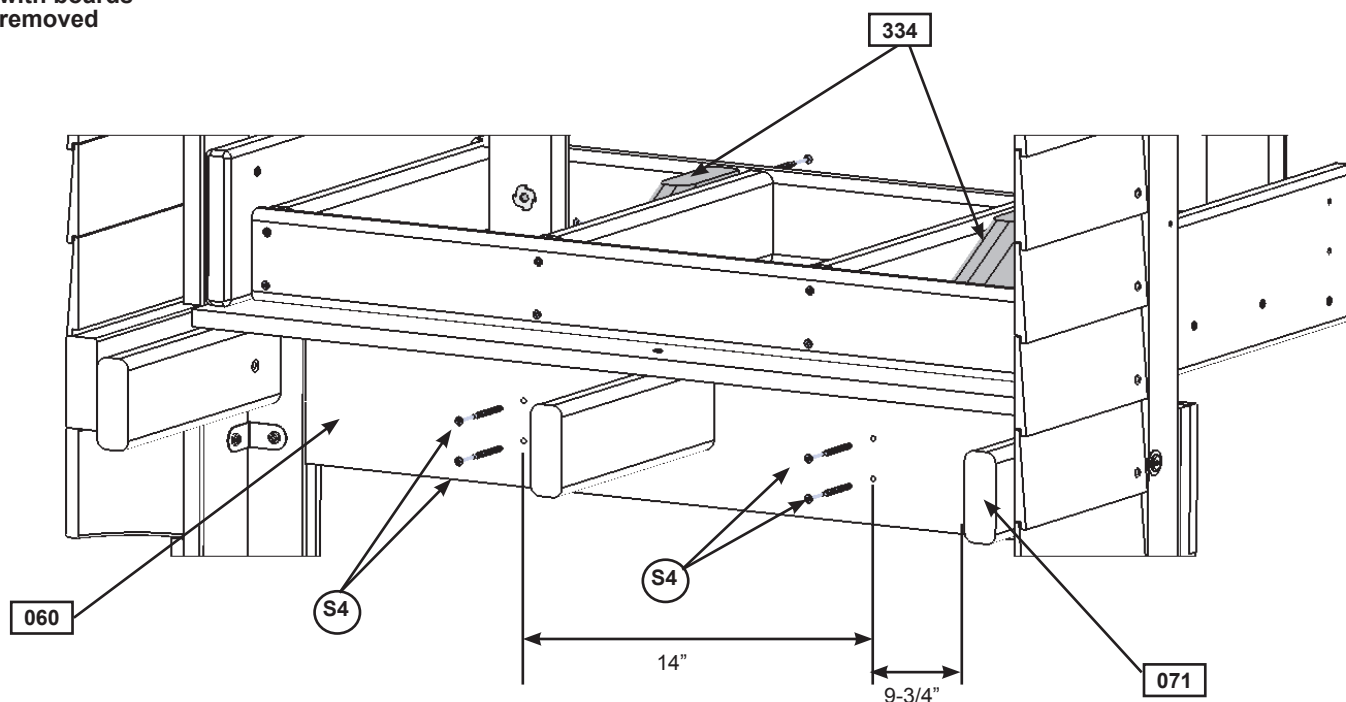
## Step 24: Crowsnest Floor Assembly Part 2



**C:** Measure 9-3/4" from inside edge of (071) Front Floor and attach (060) SL Panel to 1 (334) Crowsnest Gusset using 2 (S4) #8 x 3" Wood Screws as shown in fig. 24.3

**D:** Measure 14" from screws in Step C and attach (060) SL Panel to the second (334) Crowsnest Gusset using 2 (S4) #8 x 3" Wood Screws as shown in fig. 24.3.

**Fig. 24.3**  
Inside Fort View  
with boards  
removed



### Hardware

4 x (S4) #8 x 3" Wood Screw

## Step 24: Crowsnest Floor Assembly Part 3

**E:** Lay down (344) Crowsnest Gap flush to front of (332) Crowsnest Front and (345) Crowsnest Floor flush to back of (331) Crowsnest Back. In between (344) and (345) place 2 (346) Crowsnest Floor. (fig. 24.4 and 24.5)

**F:** Attach the floor and gap boards to each (333) Crowsnest Joist using 6 (S20) #8 x 1-3/8" Wood Screws per board. (fig. 24.5)

Fig. 24.4

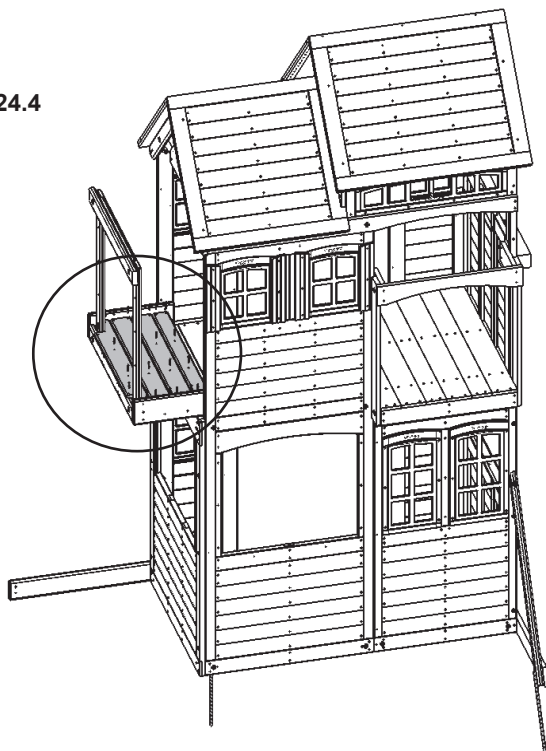
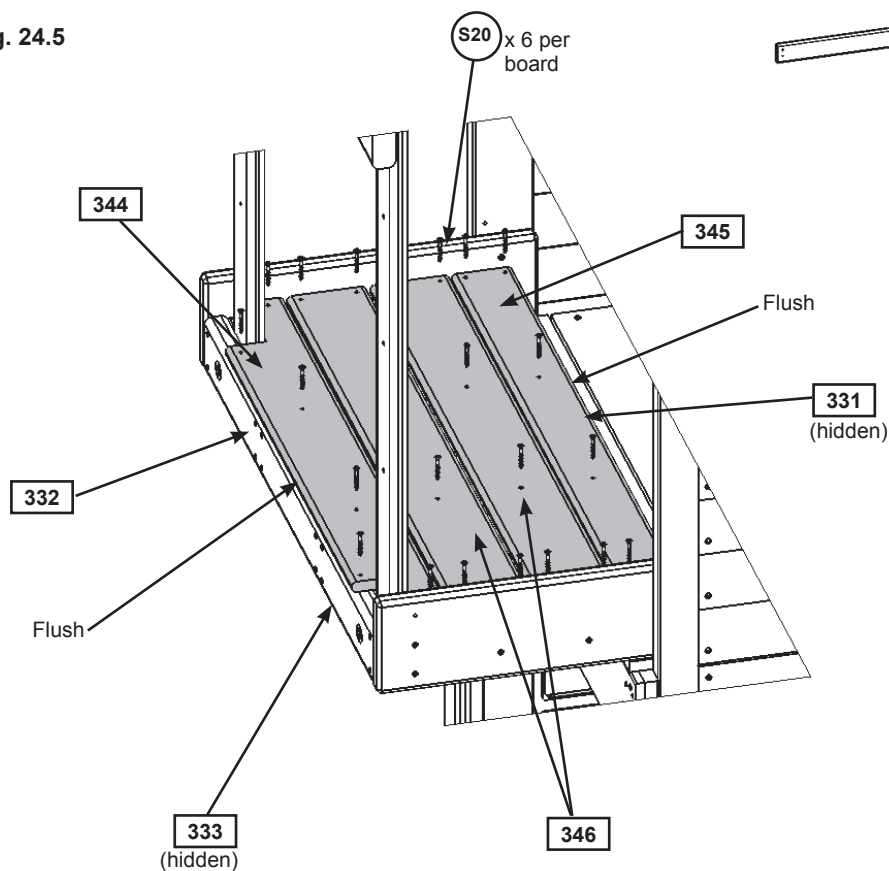


Fig. 24.5



### Wood Parts

- 1 x 344 Crowsnest Gap FSC 1 x 5 x 33-7/8"
- 1 x 345 Crowsnest Floor FSC 1 x 4 x 33-7/8"
- 2 x 346 Crowsnest Floor FSC 1 x 5 x 33-7/8"

### Hardware

- 24 x S20 #8 x 1-3/8" Wood Screw

# Step 25: Crowsnest Wall Assembly

## Part 1

**A:** Place 1 (348) Crowsnest Face on the front of each (341) Crowsnest Upright, flush to the outside edges and attach from inside the fort using 3 (S15) #8 x 1-3/4" Wood Screws per board as shown in fig. 25.1, 25.2 and 25.3.

Fig. 25.1

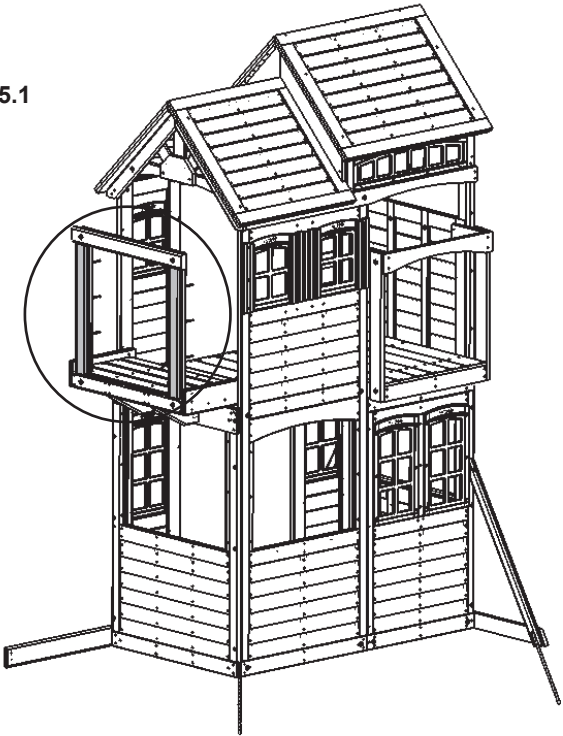


Fig. 25.2

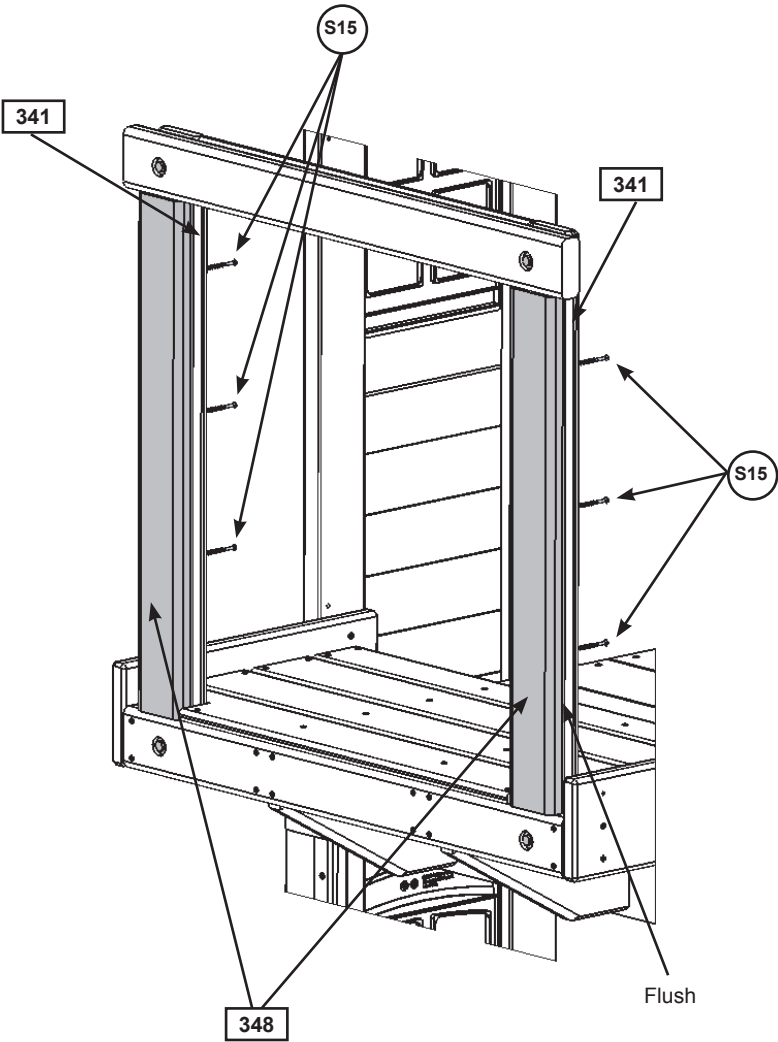
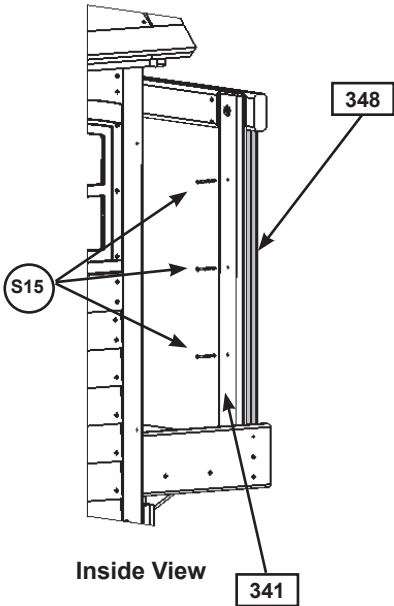


Fig. 25.3



### Wood Parts

2 x **348** Crowsnest Face FSC 2 x 4 x 27-3/4"

### Hardware

6 x **S15** #8 x 1-3/4" Wood Screw

## Step 25: Crowsnest Wall Assembly Part 2

**B:** Place 1 (347) Crowsnest Wall in between (330) Crowsnest Side and (341) Crowsnest Upright, flush to front of each (348) Crowsnest Face and tight to the floor boards. Attach (330) Crowsnest Sides from outside to (347) Crowsnest Wall in the top hole and to (333) Crowsnest Joist in the bottom hole using 2 (S15) #8 x 1-3/4" Wood Screws per side and from the inside with 1 (S15) #8 x 1-3/4" Wood Screw per side. (fig. 25.4, 25.5 and 25.6)

**C:** Attach (347) Crowsnest Walls to each (348) Crowsnest Face using 3 (S3) #8 x 2-1/2" Wood Screws per side. (fig. 25.4, 25.5 and 25.6)

Fig. 25.6

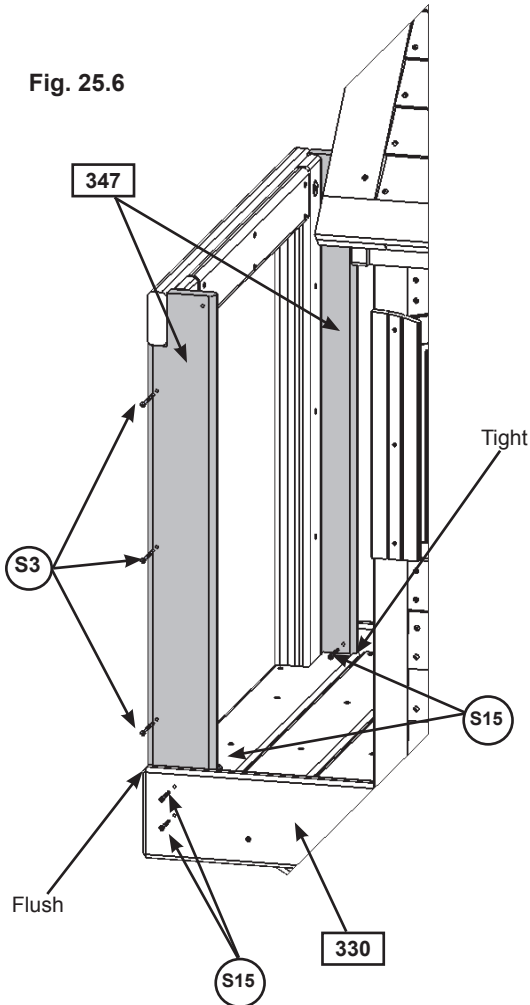


Fig. 25.4

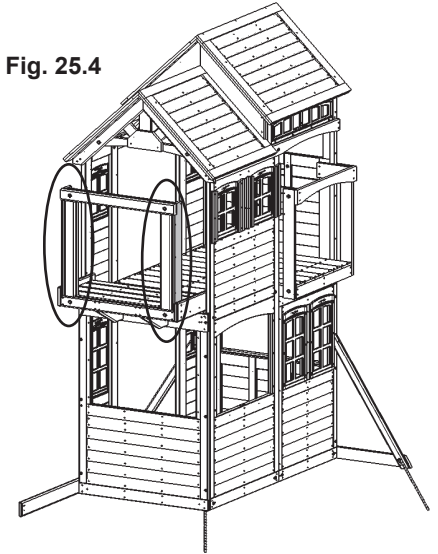
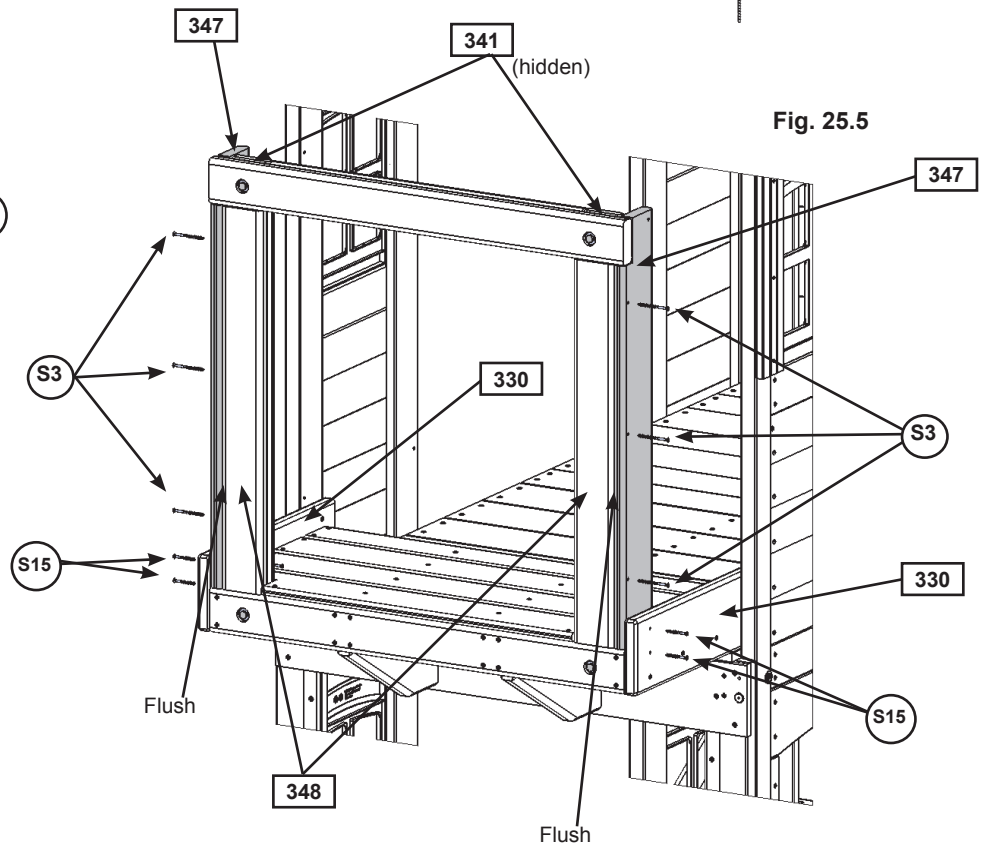


Fig. 25.5



### Wood Parts

2 x **347** Crowsnest Wall FSC 5/4 x 5 x 31"

### Hardware

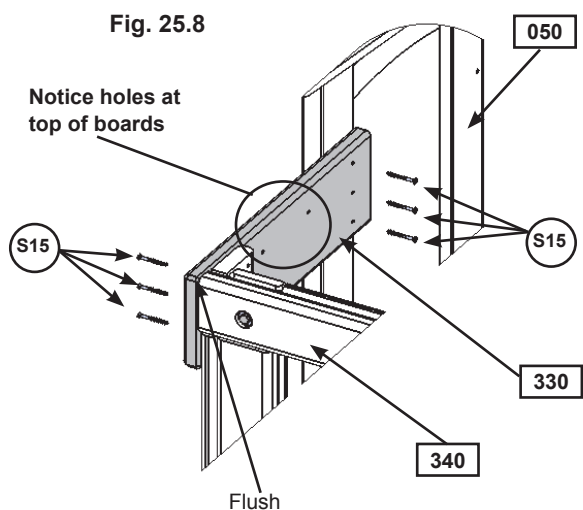
6 x **S3** #8 x 2-1/2" Wood Screw

6 x **S15** #8 x 1-3/4" Wood Screw

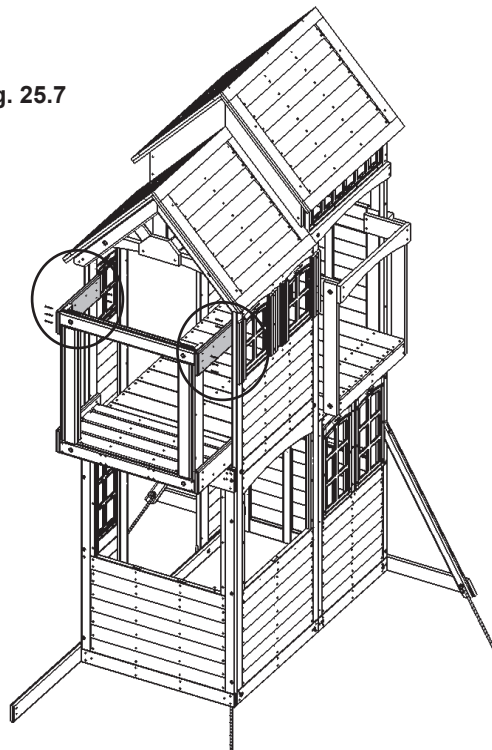
## Step 25: Crowsnest Wall Assembly Part 3

**D:** Flush to the front and top of each (340) Crowsnest SL Top attach 1 (330) Crowsnest Side using 3 (S15) Wood Screws per side. Notice the pilot holes are towards the top of the boards. (fig. 25.7, 25.8 and 25.9)

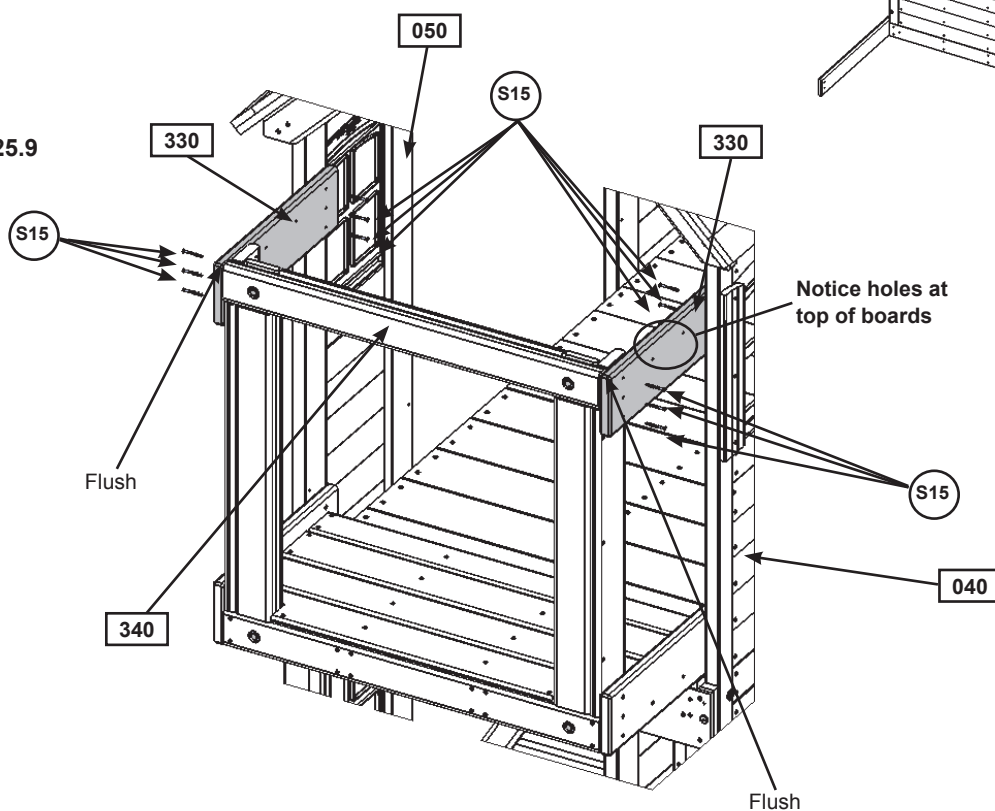
**E:** Attach the other end of each (330) Crowsnest Side to (050) Narrow Window Panel and (040) Wall Cafe Window Panel using 3 (S15) #8 x 1-3/4" Wood Screws per side. (fig. 25.7, 25.8 and 25.9)



**Fig. 25.7**



**Fig. 25.9**



### Wood Parts

2 x **330** Crowsnest Side FSC 5/4 x 6 x 18"

### Hardware

12 x **S15** #8 x 1-3/4" Wood Screw

## Step 25: Crowsnest Wall Assembly Part 4

**F:** In between (347) Crowsnest Wall and (050) Narrow Window Panel evenly space and attach 2 (166) Wall Boards to both (330) Crowsnest Sides using 4 (S20) #8 x 1-3/8" Wood Screws per board. (166) Wall Boards are to be tight to the floor board and bevelled edges at the top and facing out. (fig. 25.10 and 25.11)

**G:** In between (347) Crowsnest Wall and (040) Wall Cafe Window Panel evenly space and attach 2 (166) Wall Boards to both (330) Crowsnest Sides using 4 (S20) #8 x 1-3/8" Wood Screws per board. (166) Wall Boards are to be tight to the floor board and bevelled edges at the top and facing out. (fig. 25.10 and 25.11)

**H:** Attach each (347) Crowsnest Wall to each (330) Crowsnest Side with 1 (S15) #8 x 1-3/4" Wood Screw per board. (fig. 25.11)

Fig. 25.10

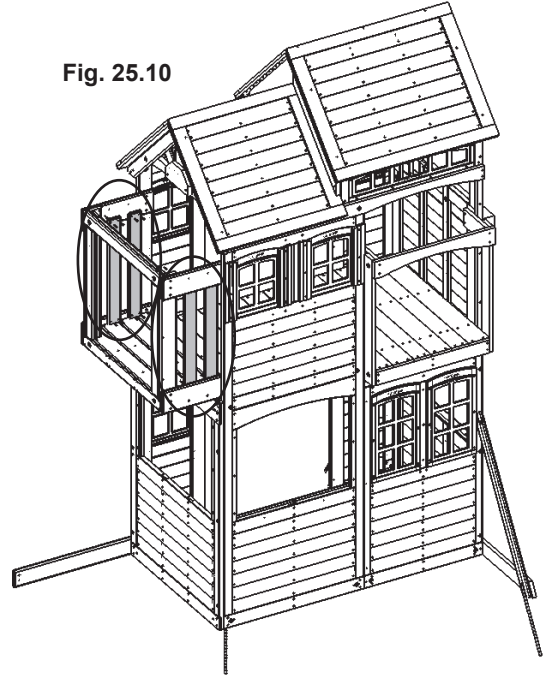
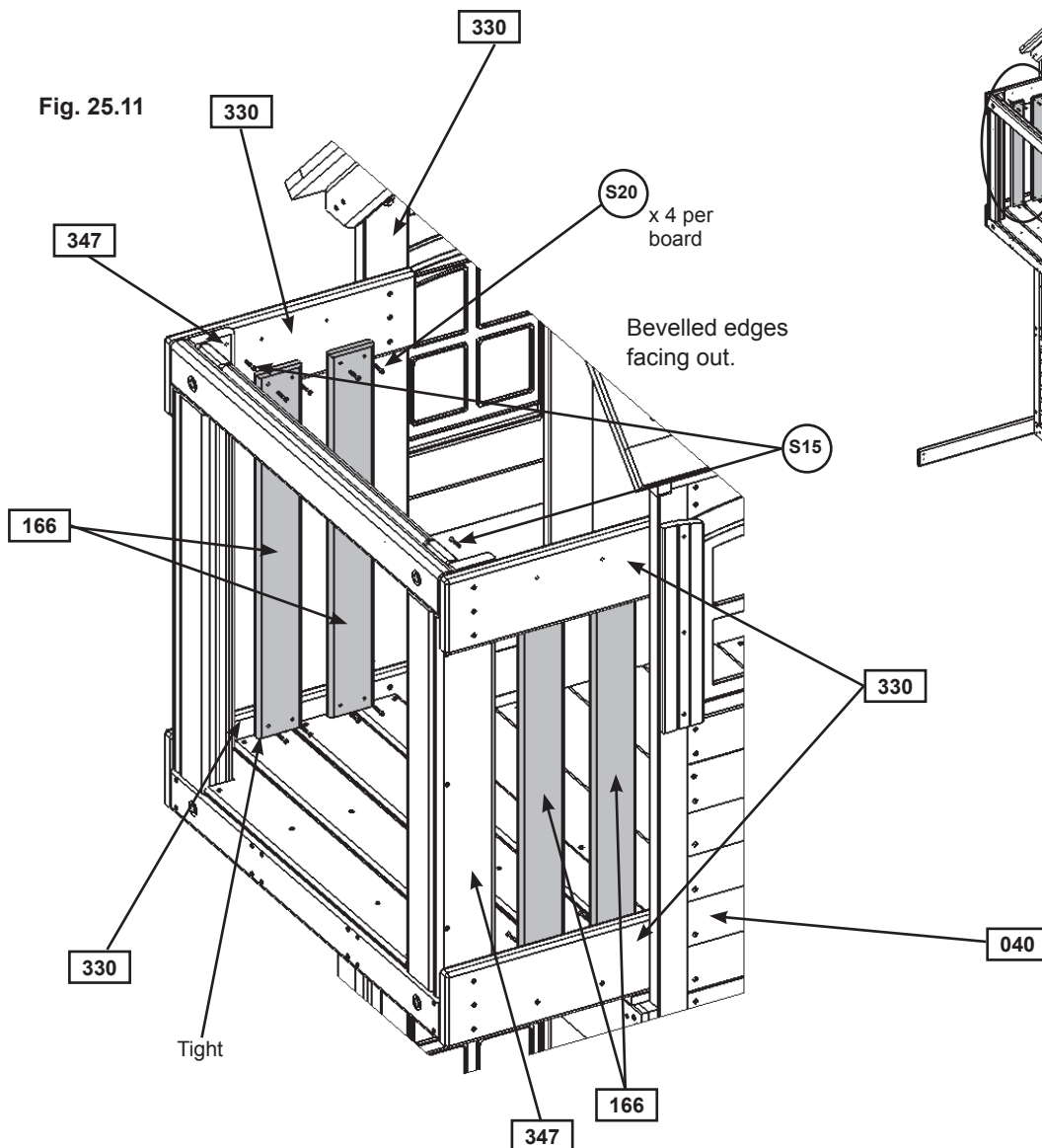


Fig. 25.11



### Wood Parts

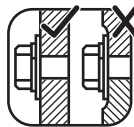
4 x **166** Wall Board FSC 1 x 4 x 26-1/2"

### Hardware

16 x **S20** #8 x 1-3/8" Wood Screw

2 x **S15** #8 x 1-3/4" Wood Screw

# Step 26: Attach Heavy T-Bracket to Fort



**A:** Attach Heavy T-Bracket to (044) SW Wall using 2 (WB7) 5/16 x 3" Wafer Bolts (with flat washer and t-nut). (fig. 26.1 and 26.2)

Fig. 26.1

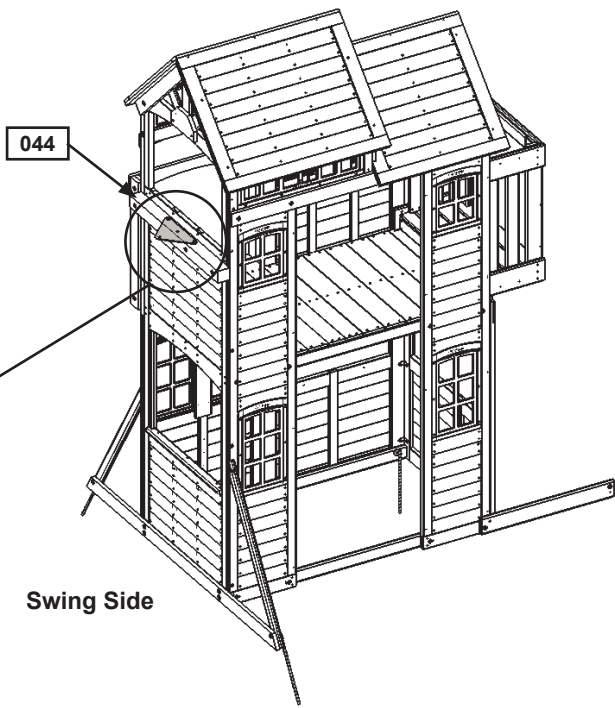
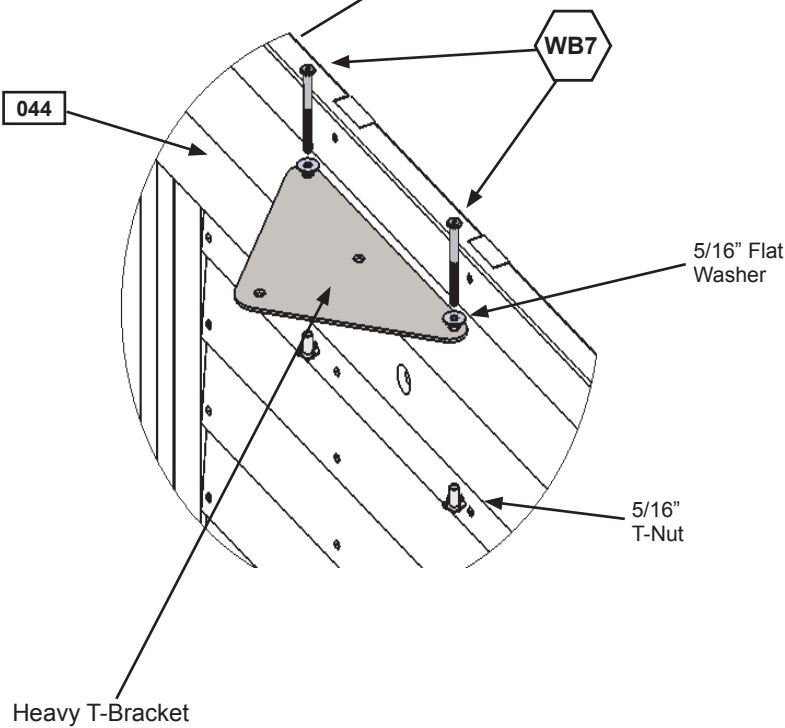



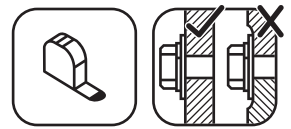
Fig. 26.2



**Hardware**  
2 x  5/16 x 3" Wafer Bolt  
(5/16" flat washer, 5/16" t-nut)

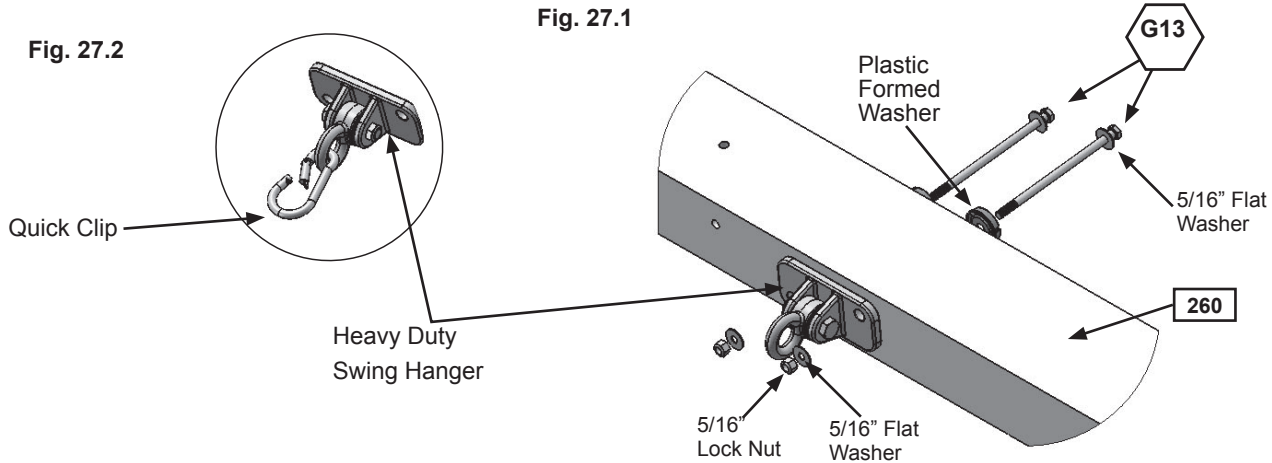
**Other Parts**  
1 x Heavy T-Bracket

## Step 27: Swing Beam Assembly



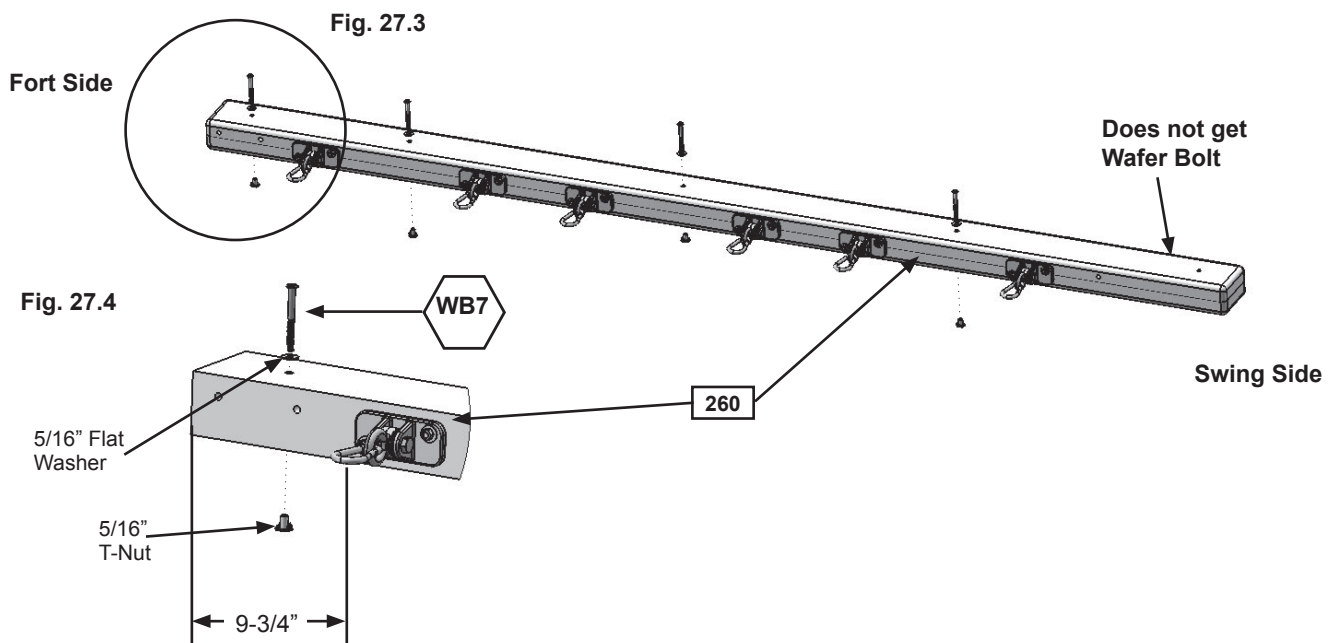
**A:** Attach 6 Heavy Duty Swing Hangers to (260) Engineered SW Beam using 2 (G13) 5/16 x 6-1/8" Hex Bolt (with 2 flat washers, plastic formed washer and lock nut) per swing hanger, as shown in fig. 27.1.

**B:** Attach 1 Quick Clip to each Heavy Duty Swing Hanger. (fig. 27.2)



**C:** Install 4 (WB7) 5/16 x 3" Wafer Bolts (with flat washer and t-nut) in (260) Engineered SW Beam, as shown in fig. 27.3 and 27.4. A Wafer Bolt does not get installed on the Swing Side of the beam.

**IMPORTANT! MAKE SURE ALL 4 BOLTS ARE ATTACHED. THEY WILL MINIMIZE CHECKING OF WOOD.**



### Wood Parts

1 x (260) Engineered SW Beam FSC 3 x 5-1/4 x 110"

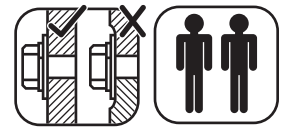
### Hardware

12 x (G13) 5/16 x 6-1/8" Hex Bolt  
(5/16" flat washer x 2, 5/16" lock nut  
& plastic formed washer)  
4 x (WB7) 5/16 x 3" Wafer Bolt  
(5/16" flat washer, 5/16" t-nut)

### Other Parts

6 x Heavy Duty Swing Hangers  
6 x Quick Clips

# Step 28: Swing Post Assembly Part 1



**Note: Keep all bolts from Step 28 series loose until start of Step 30**

**A:** Place (270) SW Block Angle on top of (271) Block SW and attach 2 Heavy L-Brackets on top of (270) SW Block Angle feeding 2 (G17) 3/8 x 6" Hex Bolts (with 2 flat washers, plastic formed washer and lock nut) through both boards as shown in fig. 28.1 and 28.2.

**B:** Attach 3 (WB7) 5/16 x 3" Wafer Bolts (with flat washer and t-nut) to all three holes in each (272) SW Post as shown in fig. 28.3 and 28.4. **IMPORTANT! MAKE SURE ALL 6 BOLTS ARE ATTACHED TO MINIMIZE CHECKING OF WOOD.**

**C:** Place (270) SW Block Angle and (271) Block SW assembly in between 2 (272) SW Post (Heavy L-Brackets towards the outside). Place 1 Heavy G-Bracket on the top (272) SW Post and attach with (G26) 3/8 x 9-1/4" Hex Bolt (with 2 flat washers and 1 lock nut), as shown in fig. 28.5.

Fig. 28.1

Bottom View

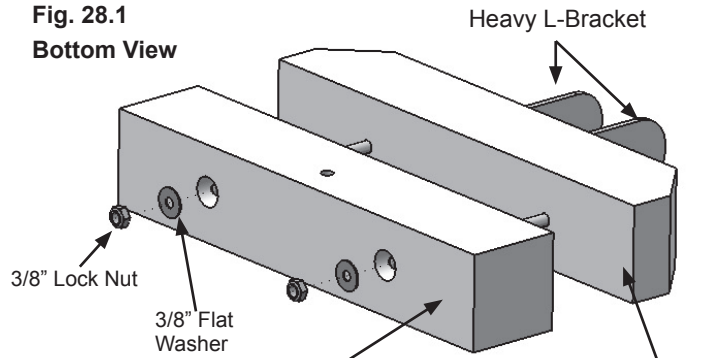


Fig. 28.2  
Top View

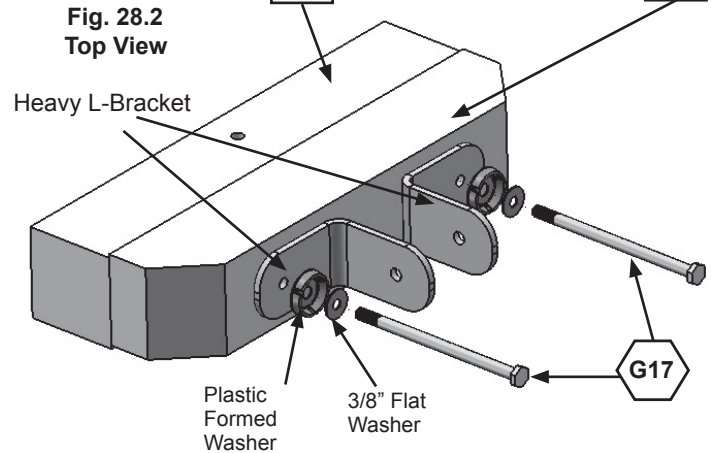


Fig. 28.3

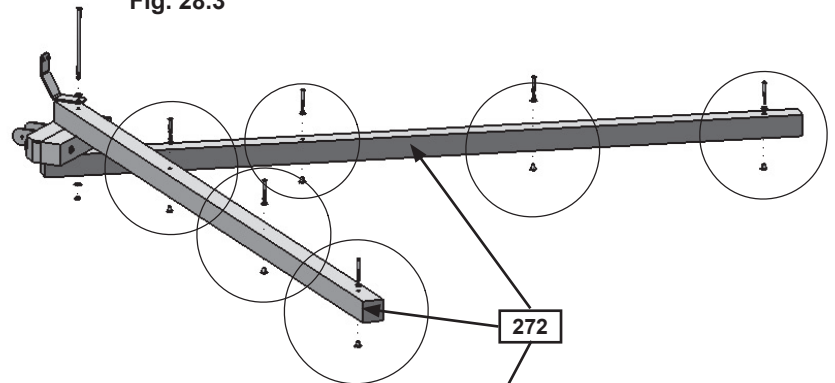


Fig. 28.4

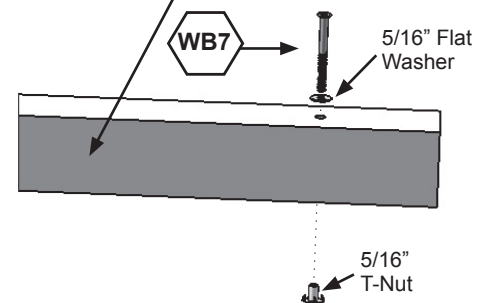
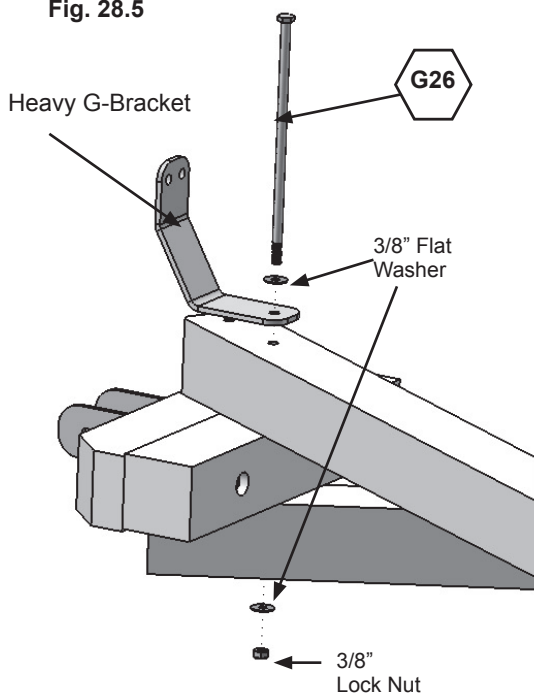


Fig. 28.5



## Wood Parts

- 1 x [270] SW Block Angle FSC 2-1/2 x 3 x 15"
- 1 x [271] Block SW FSC 2-1/2 x 3 x 15"
- 2 x [272] SW Post FSC 4 x 4 x 105"

## Hardware

- 2 x [G17] 3/8 x 6" Hex Bolt  
(3/8" flat washer x 2, plastic formed washer & 3/8" lock nut)
- 1 x [G26] 3/8 x 9-1/4" Hex Bolt  
(3/8" flat washer x 2 & 3/8" lock nut)
- 6 x [WB7] 5/16 x 3" Wafer Bolt  
(5/16" flat washer & 5/16" t-nut)

## Other Parts

- 2 x Heavy L-Bracket
- 1 x Heavy G-Bracket

## Step 28: Swing Post Assembly Part 2



**D:** Attach KidKraft plaque to centre of (260) Engineered SW Beam (over top of t-nut) using 4 (S18) #6 x 1" Wood Screws. (fig. 28.6)

**E:** Place (260) Engineered SW Beam on Heavy T-Bracket and attach to fort with 1 (G17) 3/8 x 6" Hex Bolt (with 2 flat washers, plastic formed washer and lock nut) and 1 (G18) 3/8 x 9" Hex Bolt (with 2 flat washers, plastic formed washer and lock nut) as shown in fig. 28.7 and 28.8.

**F:** Place (260) Engineered SW Beam (end without Wafer Bolt from Step 27) in between Heavy L-Brackets assembled in Step A making sure holes are lined up then attach Swing Post Assembly to Swing Beam Assembly using 1 (G20) 3/8 x 4" Hex Bolt (with 2 flat washers and lock nut) through Heavy L-Bracket. (fig. 28.9)

**G:** Attach (260) Engineered SW Beam to Heavy G-Bracket with 1 (G17) 3/8 x 6" Hex Bolt (with 2 flat washers, plastic formed washer and lock nut). (fig. 28.9)

Fig. 28.7

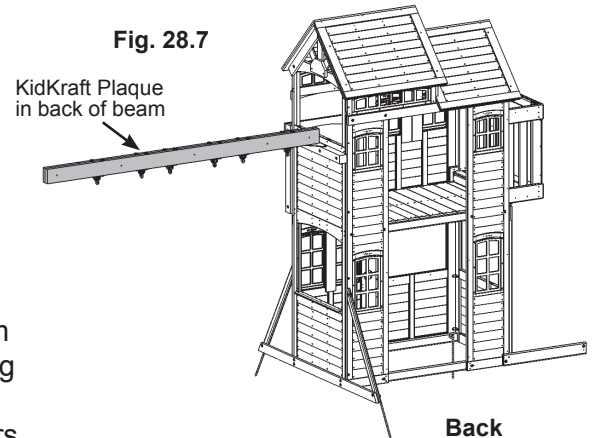


Fig. 28.6  
Front View

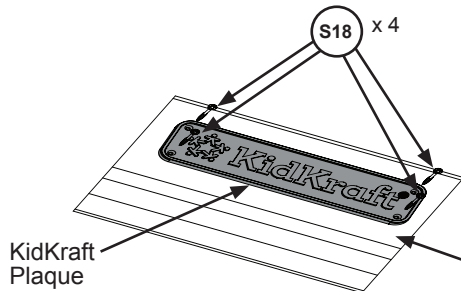


Fig. 28.8

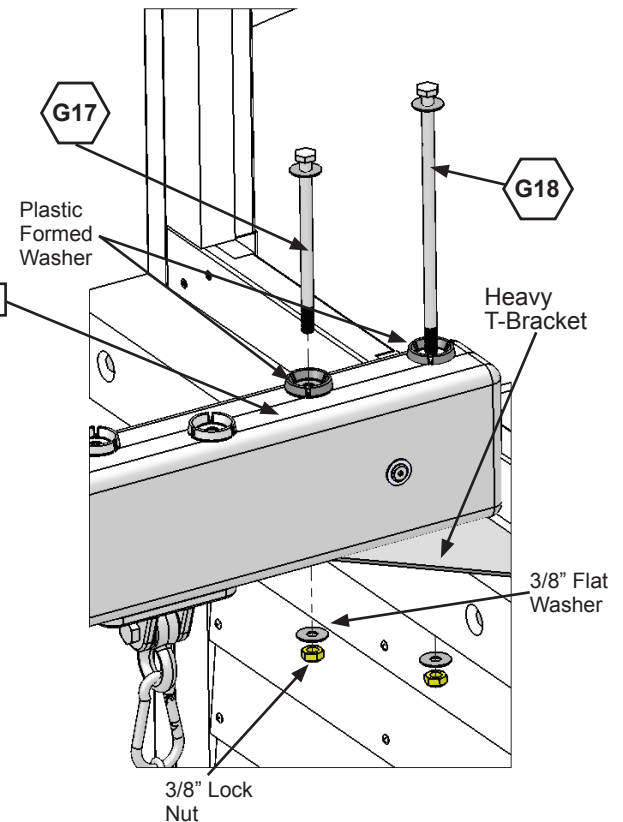
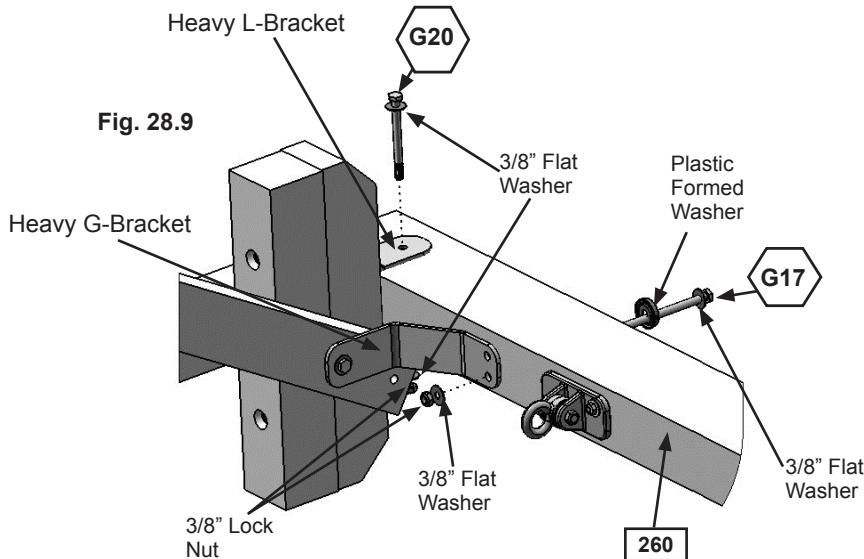


Fig. 28.9



### Hardware

4 x (S18) #6 x 1" Wood Screw

1 x (G20) 3/8 x 4" Hex Bolt  
(3/8" flat washer x 2 & 3/8" lock nut)

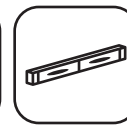
2 x (G17) 3/8 x 6" Hex Bolt  
(3/8" flat washer x 2, plastic formed washer & 3/8" lock nut)

1 x (G18) 3/8 x 9" Hex Bolt  
(3/8" flat washer x 2, plastic formed washer & 3/8" lock nut)

### Other Parts

1 x KidKraft Plaque

## Step 29: Attach Cross Support



**Pre-drill all holes using a 3/16" drill bit before installing the lag screws.**

**A:** Check to make sure the (260) Engineered SW Beam is level and the bottom of the beam to the ground measures 85". (fig. 29.1)

**B:** To adjust for uneven ground, raise or lower the (280) Support Cross on the (272) SW Post. Make sure the Support Cross is level prior to attaching with the lag screws. (fig. 29.2)

Fig. 29.1

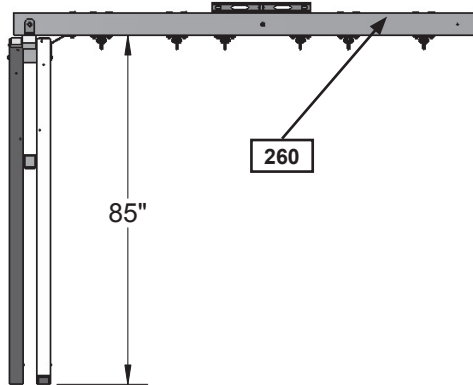
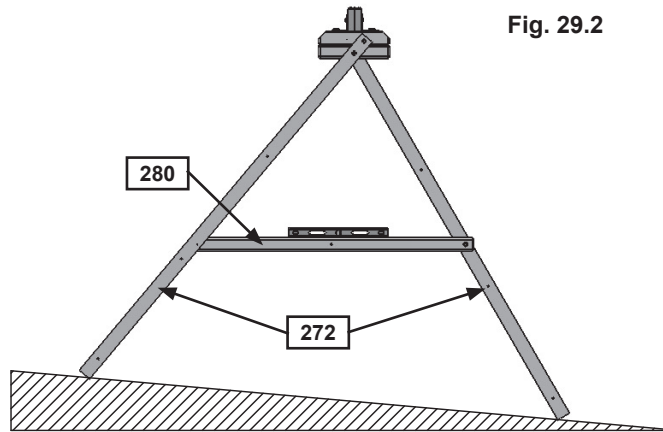


Fig. 29.2



**C:** Place (280) Support Cross between (272) SW Post at the previously determined spot and fasten with 1 (LS9) 5/16 x 4-3/4" Lag Screw (with flat washer) per side. (fig. 29.3 and 29.4) **Notice one side is fastened on the outside and one on the inside. It is important that each side is positioned exactly the same as the diagram. (fig. 29.3) Tighten the lag screw when you are sure (280) Support Cross is level.**

**D:** Attach 1 (WB8) 5/16 x 2-3/8" Wafer Bolt (with flat washer and t-nut) to (280) Support Cross through the middle hole. (fig. 29.3) **IMPORTANT! MAKE SURE THE BOLT IS ATTACHED TO MINIMIZE CHECKING OF WOOD.**

Fig. 29.4

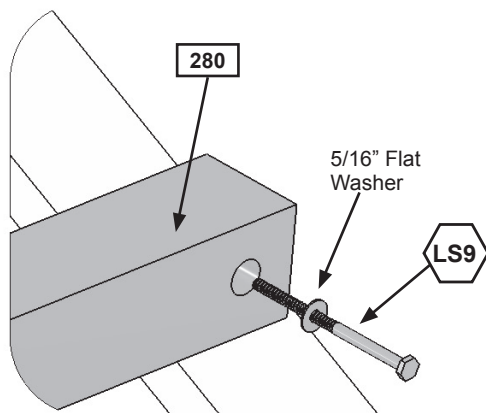
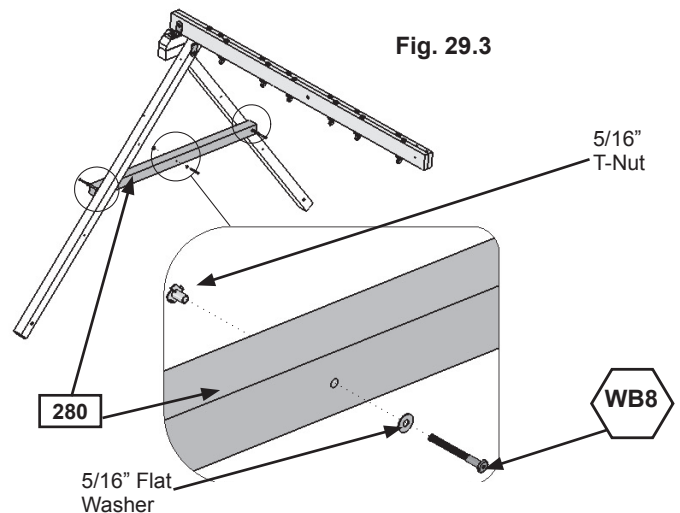


Fig. 29.3



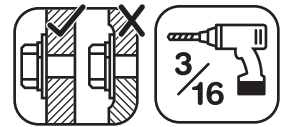
### Wood Parts

1 x (280) Support Cross FSC 2-1/2 x 3 x 64"

### Hardware

2 x (LS9) 5/16 x 4-3/4" Lag Screw  
(5/16" flat washer)  
1 x (WB8) 5/16 x 2-3/8" Wafer Bolt  
(5/16" flat washer, 5/16" t-nut)

## Step 30: Final Swing Post Assembly



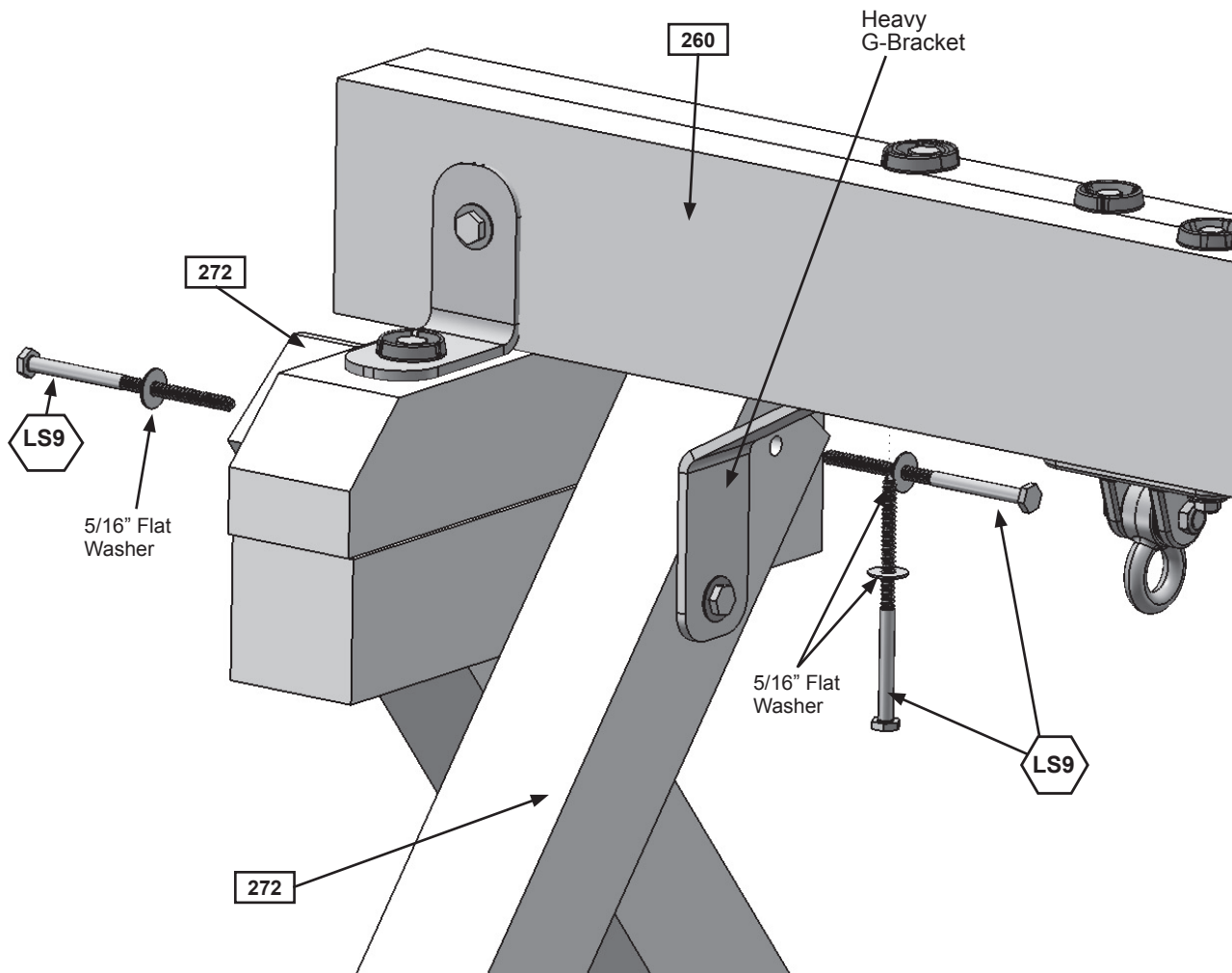
*Pre-drill all holes using a 3/16" drill bit before installing the lag screws.*

*Note: Tighten all bolts from Step 28 series before installing lag screws.*


**A:** Attach 1 (LS9) 5/16 x 4-3/4" Lag Screw (with flat washer) into each (272) SW Post, as shown in fig. 30.1.

**B:** Attach 1 (LS9) 5/16 x 4-3/4" Lag Screw (with flat washer) into remaining hole of the Heavy G-Bracket into (260) Engineered SW Beam. (fig. 30.1)

Fig. 30.1



### Hardware

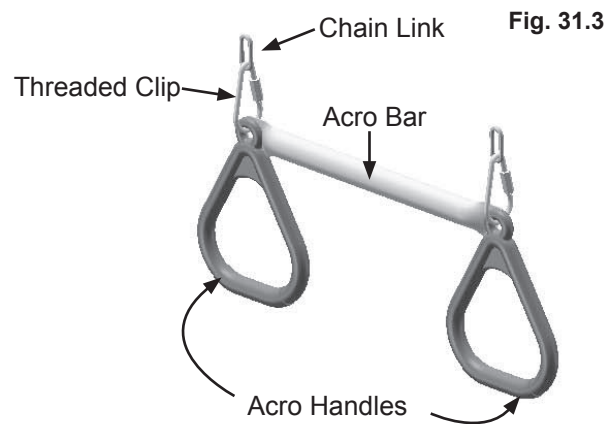
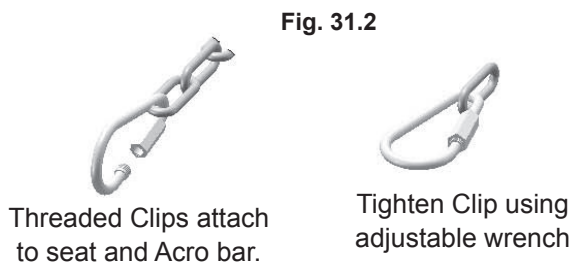
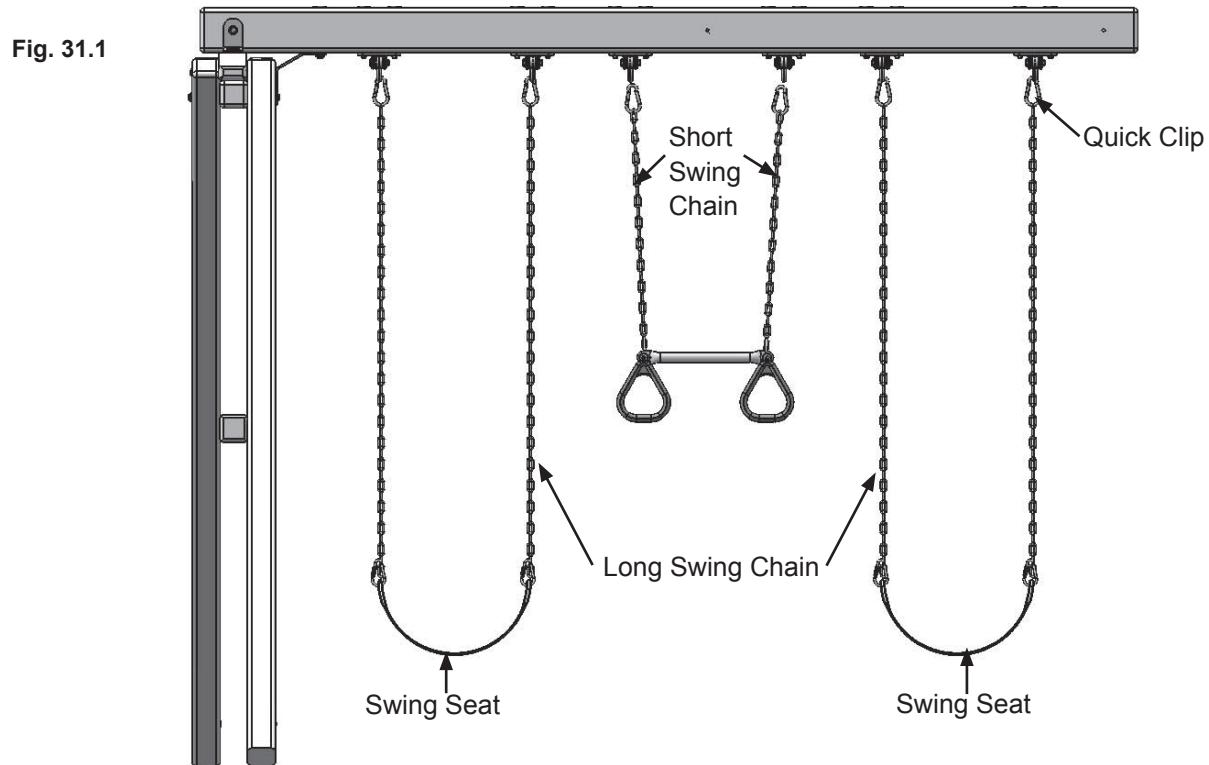
3 x  5/16 x 4-3/4" Lag Screw  
(5/16" flat washer)

## Step 31: Attach Swings

**A:** Using 1 Threaded Clip per chain, join 1 Long Swing Chain to each side of the swing belt seat. Make sure to close the Threaded Clip tightly using an adjustable wrench. (fig. 31.1 and 31.2).

**B:** Using 1 Threaded Clip per chain, join the Short Swing Chain to the Acro Bar and Acro Handle. Make sure to close the Threaded Clip tightly using an adjustable wrench. (fig. 31.2 and 31.3)

**C:** Attach the other end of the swing chains to the Quick Clips attached to the swing hangers. (fig. 31.1)



### Other Parts

1 x Acro Bar  
2 x Acro Handle  
2 x Swing Belt Seat  
2 x Short Swing Chain  
4 x Long Swing Chain  
6 x Threaded Clips

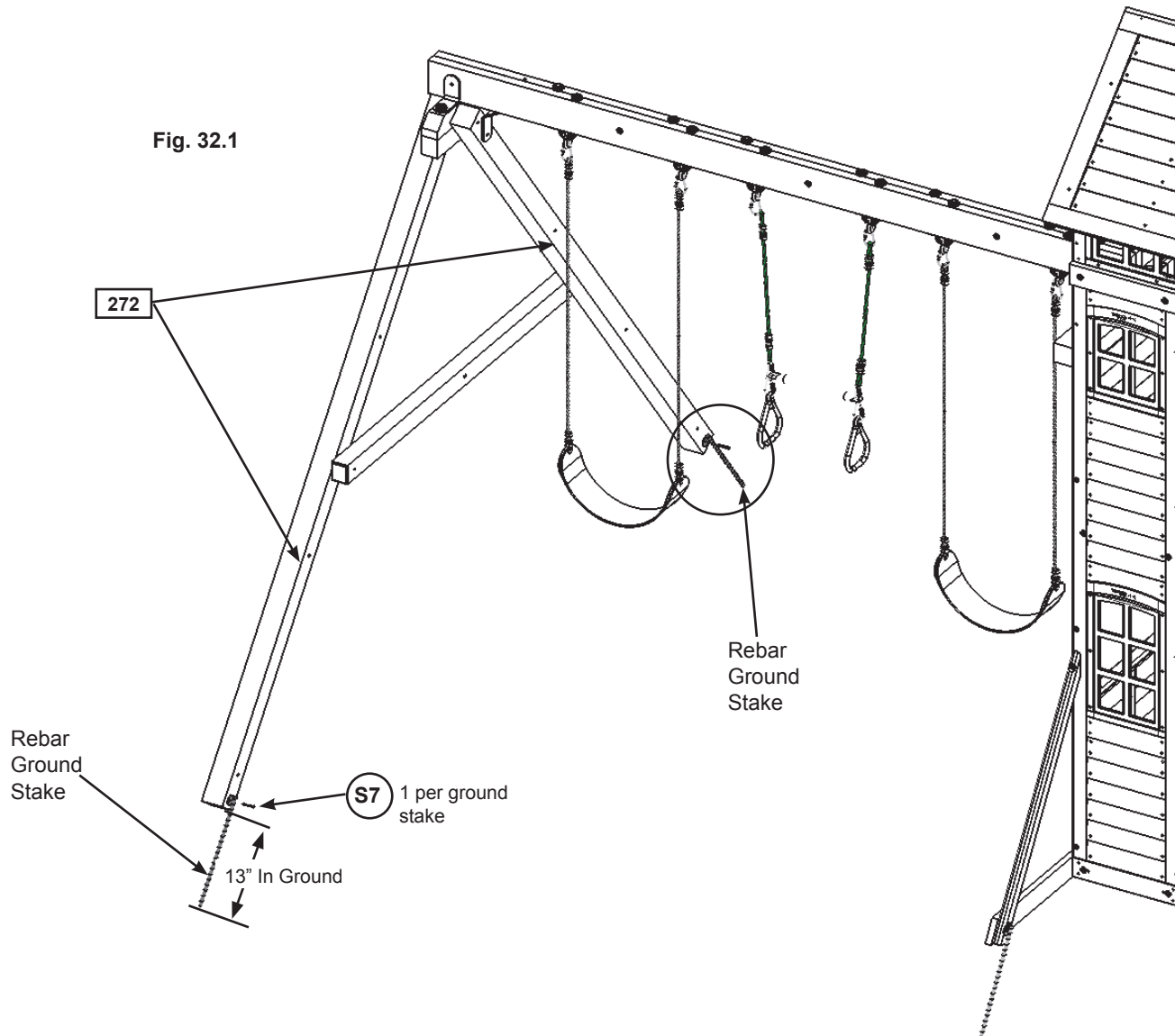
## Step 32: Attach Swing End Ground Stakes

**A:** In the 2 places shown in fig. 32.1 drive the Rebar Ground Stakes 13" into the ground against the boards. Be careful not to hit the washer while hammering stakes into the ground as this could cause the washer to break off.

**B:** Attach ground stakes to (272) SW Posts using 1 (S7) #12 x 2" Pan Screw per ground stake as shown in fig. 32.1.

**C:** After driving stakes into the ground, check for sharp edges caused by the impact of the hammer. Smooth any sharp edges from impact area and touch up with outdoor paint.

**⚠ Warning!** To prevent tipping and avoid potential injury, stakes must be driven 13" into ground. Digging or driving stakes can be dangerous if you do not check first for under-ground wiring, cables or gas lines.



### Hardware

2 x (S7) #12 x 2" Pan Screw

### Other Parts

2 x Rebar Ground Stake

## Step 33: Attach Access Ladder Rockwall Assembly

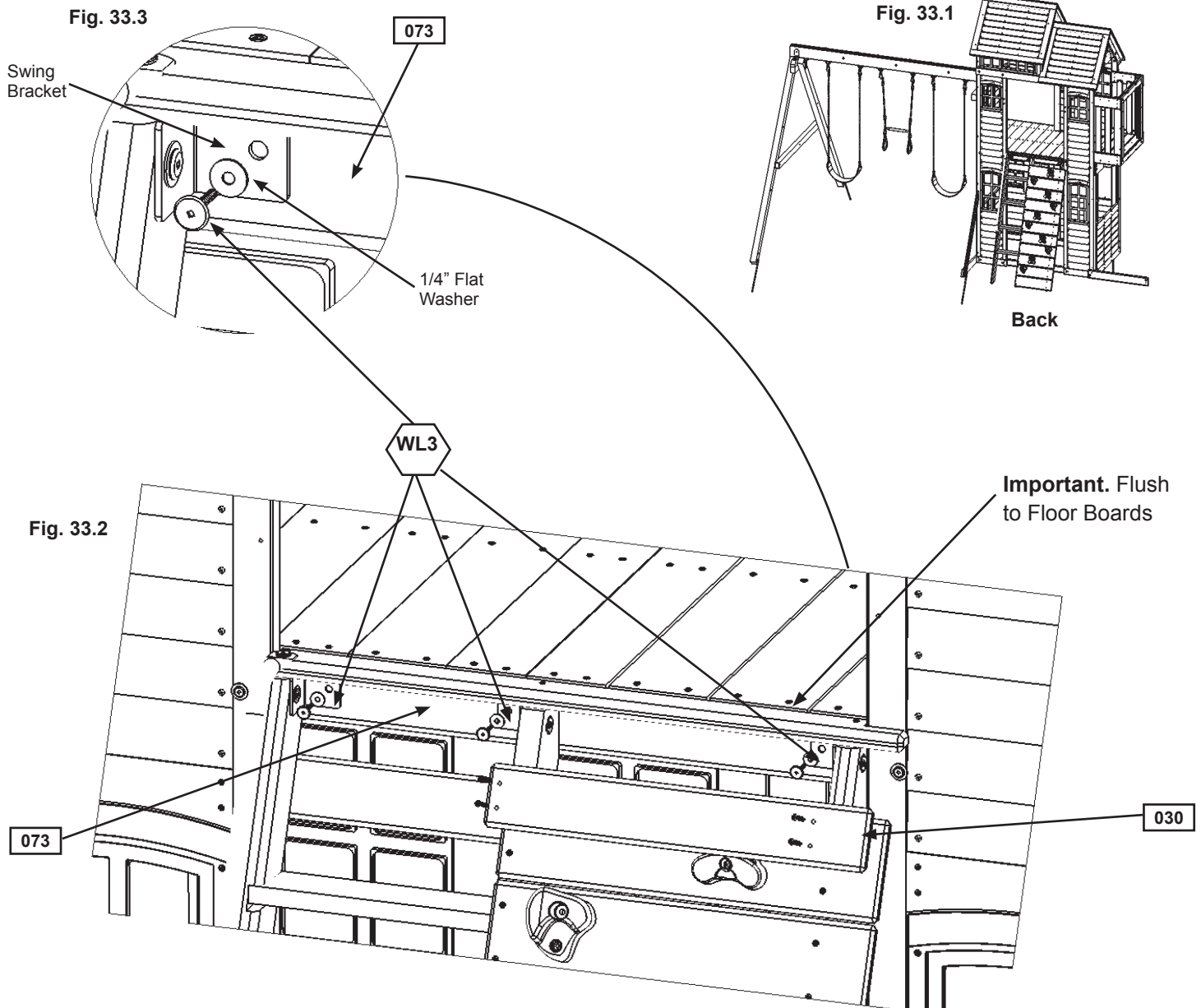


**Pre-drill all holes using a 1/8" drill bit before installing the Wafer Lags**


**A:** Remove (030) Board Access from the Access Ladder Rockwall, previously assembled in Step 3. Set the board and screws aside, they will be re-attached. (fig. 33.2)

**B:** Place the Access Ladder Rockwall on the Back side of the fort and attach to (073) Back Floor with 1 (WL3) 1/4 x 1-3/8" Wafer Lag Screw (with flat washer) in each Swing Bracket. (fig. 33.1, 33.2 and 33.3).

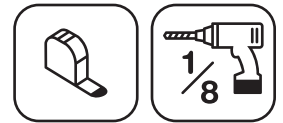
**C:** Re-attach (030) Board Access to the same place it was removed. (fig. 33.2)



### Hardware

3 x  1/4 x 1-3/8" Wafer Lag  
(1/4" flat washer)

## Step 34: Attach Steel Hand Grips to Fort



**Pre-drill all holes using a 1/8" drill bit before installing the Wafer Lags**

**A:** Measure 6" from the top of (025) Top Ladder on each (050) Narrow Window Panel and attach 1 Steel Hand Grip per panel with 2 (WH2) #12 x 1" Wafer Screw (with flat washer) per Steel Hand Grip. (fig. 34.1, 34.2 and 34.3)

Fig. 34.1

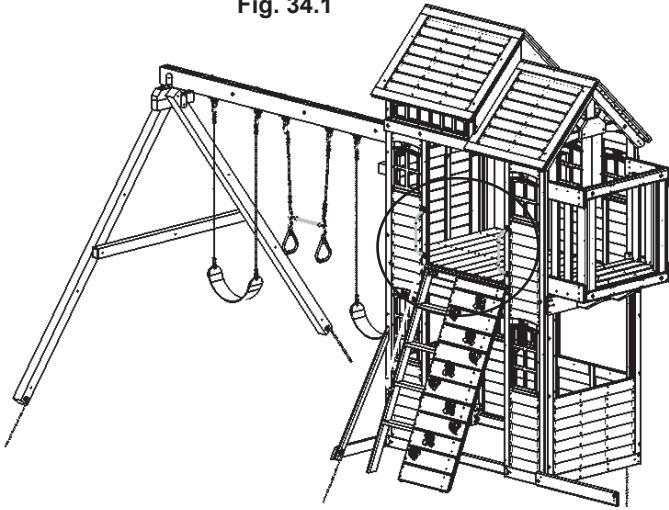


Fig. 34.2

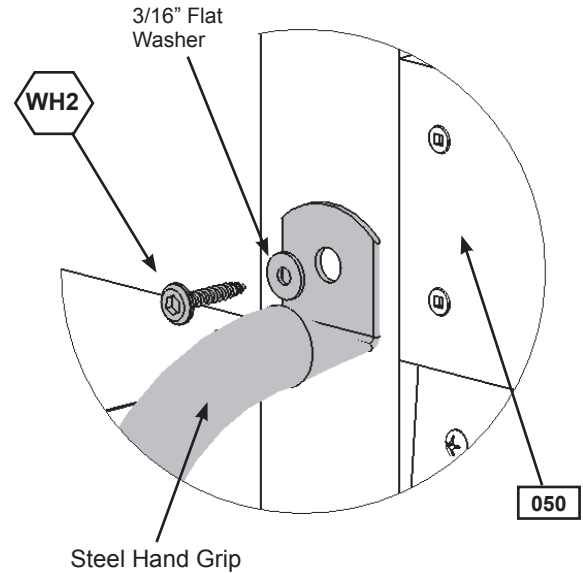
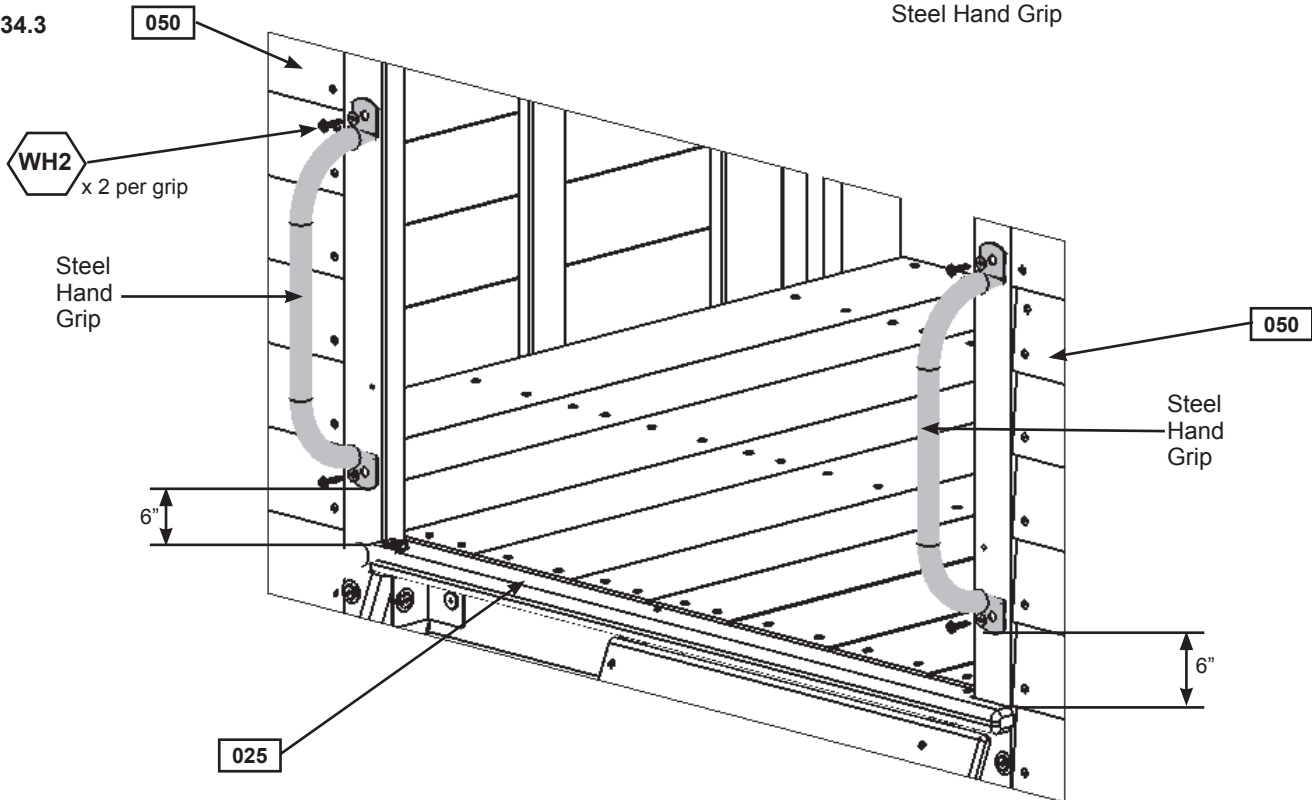


Fig. 34.3



### Hardware

4 x WH2 #12 x 1" Wafer Head Screw  
(3/16" flat washer)

### Other Parts

2 x Steel Hand Grip

## Step 35: Attach Middle Arch to Fort



**A:** Measure 23-3/4" from the top of (025) Top Ladder on each (050) Narrow Window Panel and attach (370) Middle Arch with 4 (S15) #8 x 1-3/4" Wood Screws. (fig. 35.1 and 35.2)

Fig. 35.1

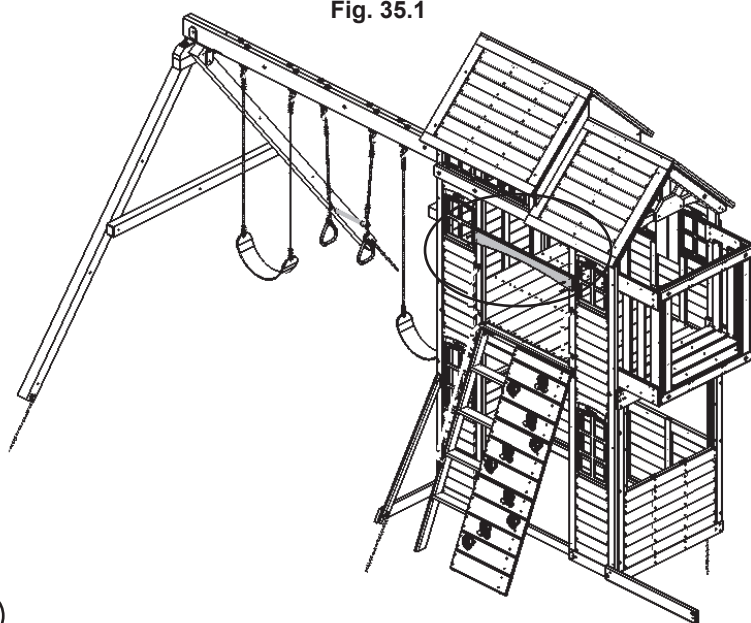
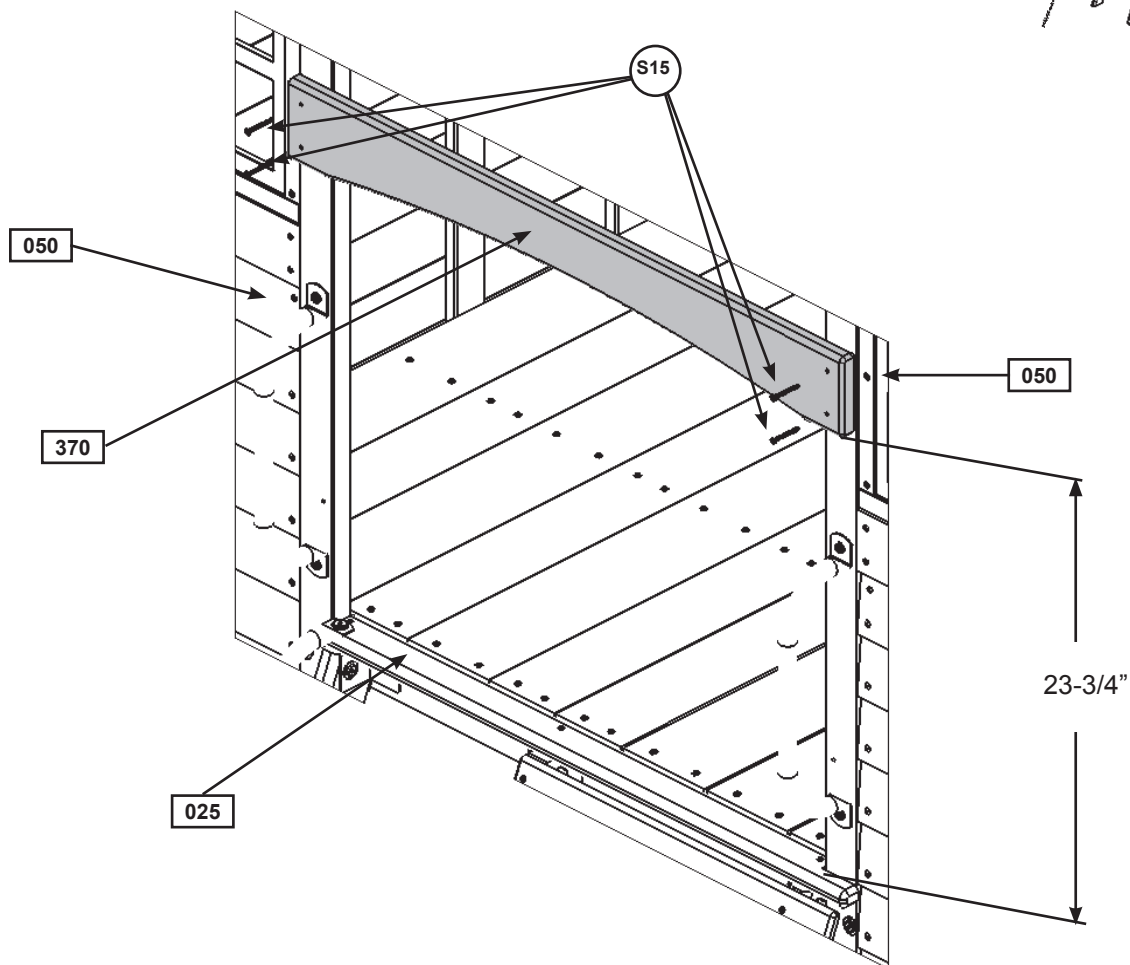


Fig. 35.2



### Wood Parts

1 x **370** Middle Arch FSC 5/4 x 5 x 36-1/4"

### Hardware

4 x **S15** #8 x 1-3/4" Wood Screw

## Step 36: Attach Flower Boxes

**A:** On the front of the assembly place 1 Flower Box under each window and attach to (040) Wall Cafe Window Panel with 2 (S13) #6 x 5/8" Pan Screws per Flower Box. (fig. 36.1, 36.2 and 36.3)

Fig. 36.1

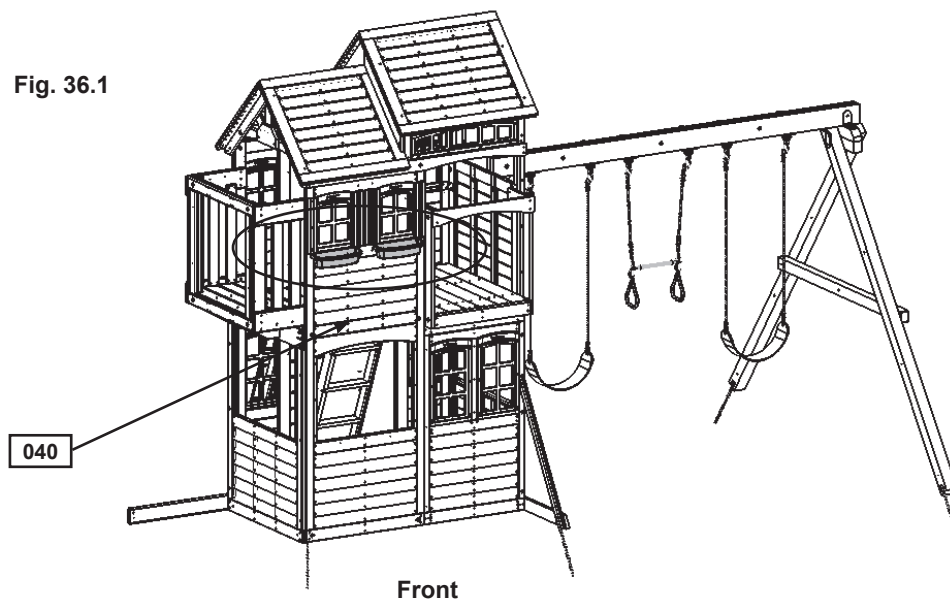


Fig. 36.3

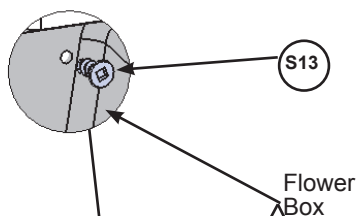
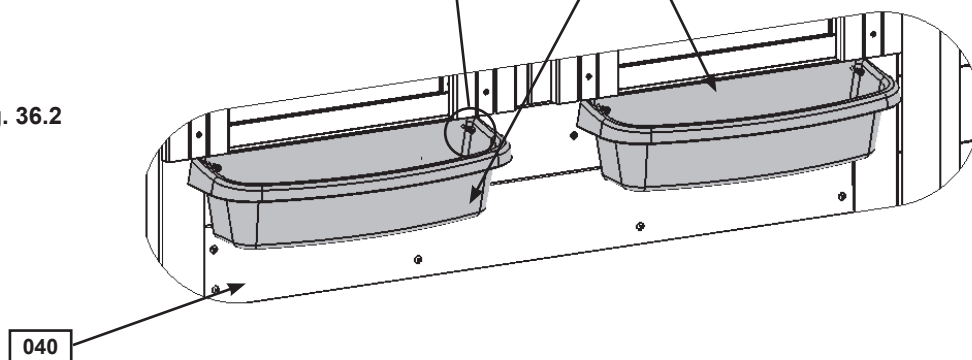


Fig. 36.2



### Hardware

4 x (S15) #6 x 5/8" Pan Screw

### Other Parts

2 x Flower Box

## Step 37: Table Top Assembly

**A:** On the outside of the assembly place (080) Table Top in the opening of (040) Cafe Wall Window Panel, tight to the bottom half of the opening and tight to the corner of the panels, as shown in fig. 37.1 and 37.2. From the top of the assembly attach (080) Table Top to (040) Cafe Wall Window Panel with 2 (S3) #8 x 2-1/2" Wood Screws as shown in fig. 37.2.

**B:** On the outside of the assembly place 2 (081) Table Gussets tight to the bottom of (080) Table Top and tight to (040) Cafe Wall Window Panel so they are centered over the pilot holes and attach from inside the assembly with 2 (S3) #8 x 2-1/2" Wood Screws and to (080) Table Top with 2 (S15) #8 x 1-3/4" Wood Screws as shown in fig. 37.2.

Fig. 37.1

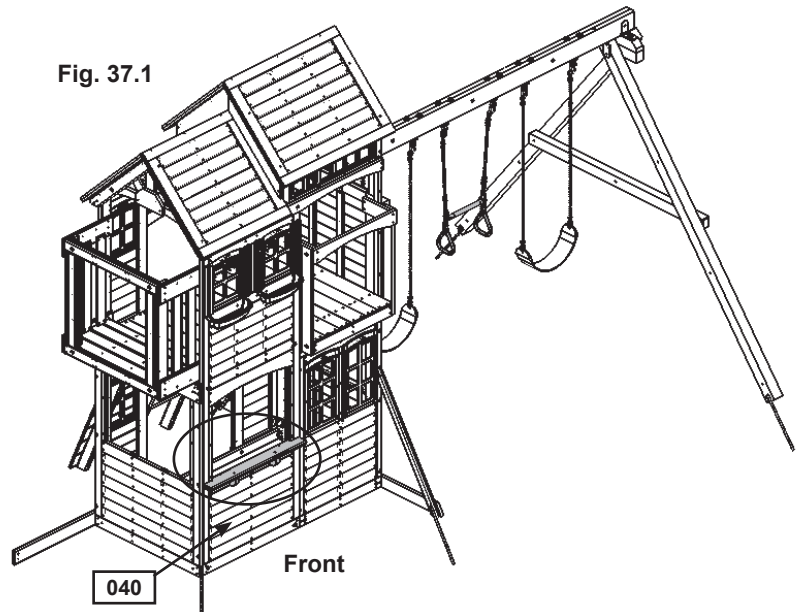
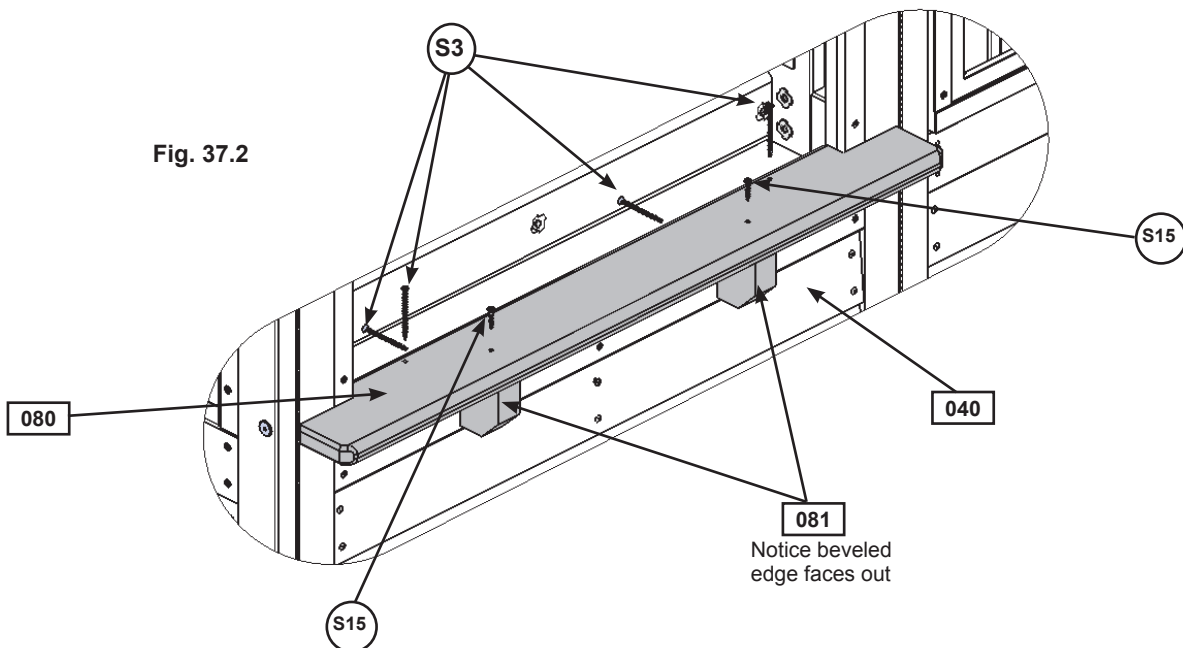


Fig. 37.2



### Wood Parts

- 1 x (080) Table Top FSC 5/4 x 5 x 35-1/2"
- 2 x (081) Table Gusset FSC 2 x 3 x 3"

### Hardware

- 2 x (S15) #8 x 1-3/4" Wood Screw
- 4 x (S3) #8 x 2-1/2" Wood Screw

## Step 38: Attach Cafe Bench to Fort

**A:** Centre Cafe Bench from Step 1 between the two bolts on the bottom of (040) Wall Cafe Window Panel. (fig. 38.1 and 38.2)

**B:** Attach (012) Bench Base Cafe to (040) Wall Cafe Window Panel with the previously attached 4 Corner Brackets using 1 (S10) #8 x 1" Pan Screw per bracket. (fig. 38.2 and 38.3) Note: The inside Corner Brackets sit flush to the top and the outside Corner Brackets sit flush to the bottom of (012) Bench Base Cafes as shown in fig. 38.2.

Fig. 38.1

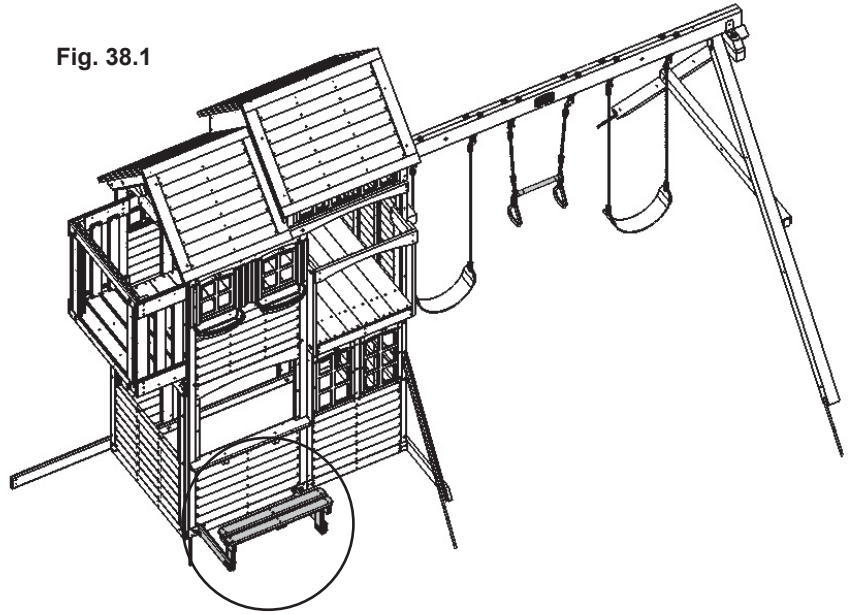


Fig. 38.3

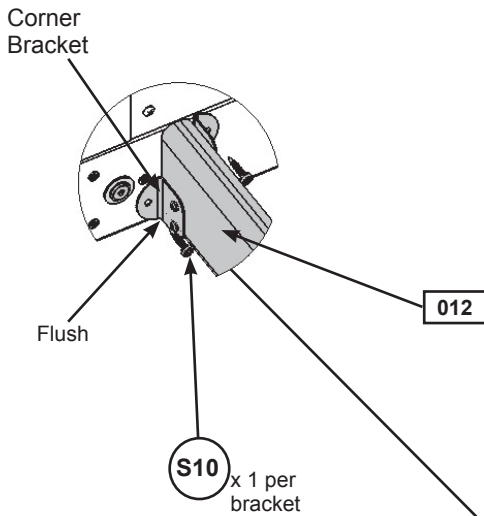
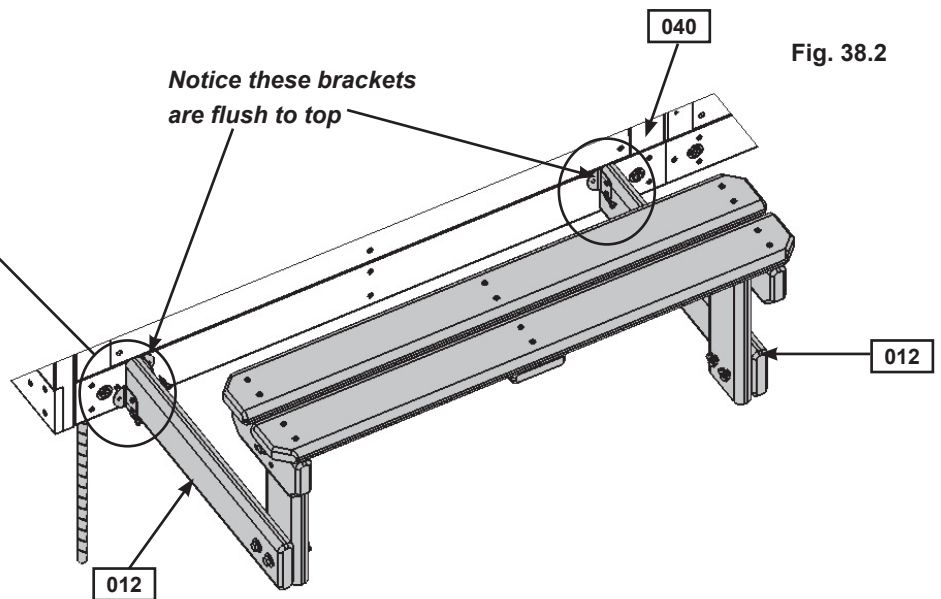


Fig. 38.2



### Hardware

4 x (S10) #8 x 1" Pan Screw

## Step 39: Attach SL Support to Fort



**A:** Attach (400) SL Support to extended end of (074) SL Bottom with 1 (G8) 5/16 x 2" Hex Bolt (with lock washer, flat washer and t-nut) in the top hole. (fig. 39.1 and 39.2)

**B:** Make sure (074) SL Bottom and (400) SL Support are square then attach with 1 (S15) #8 x 1-3/4" Wood Screw. (fig. 39.2)

Fig. 39.1

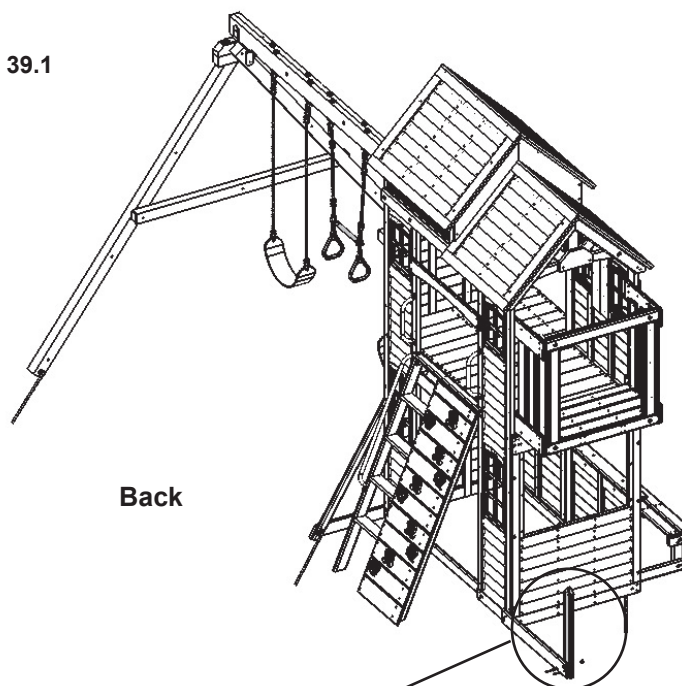
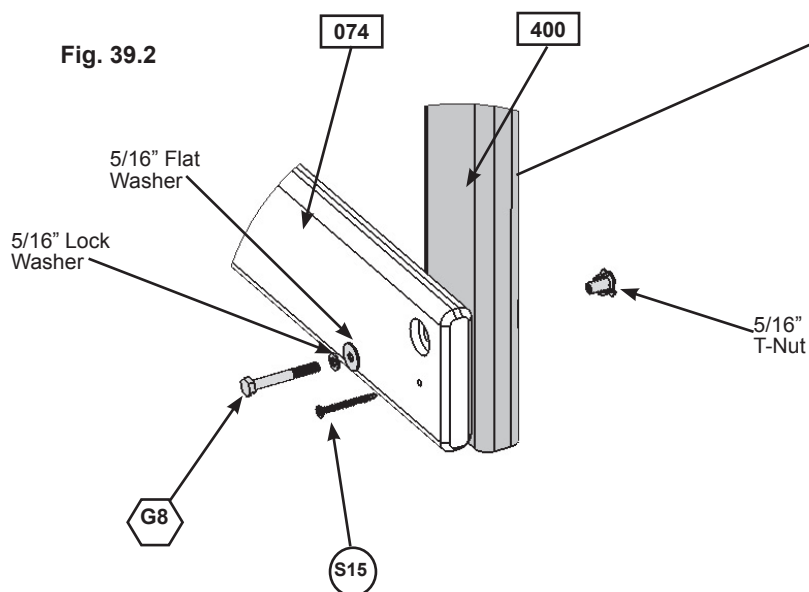


Fig. 39.2



### Wood Parts

1 x (400) SL Support FSC 2 x 4 x 26-1/4"

### Hardware

1 x (G8) 5/16 x 2" Hex Bolt  
(5/16" lock washer, 5/16" flat washer, 5/16" t-nut)

1 x (S15) #8 x 1-3/4" Wood Screw

# Step 40: Slide Section Assemblies Part 1

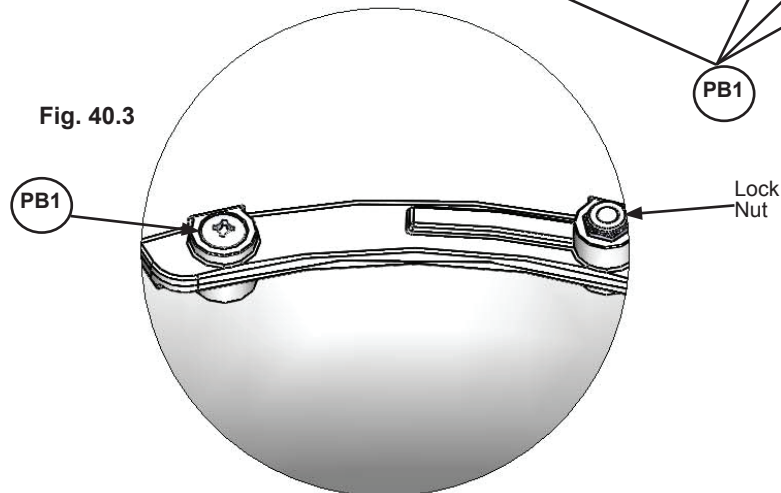
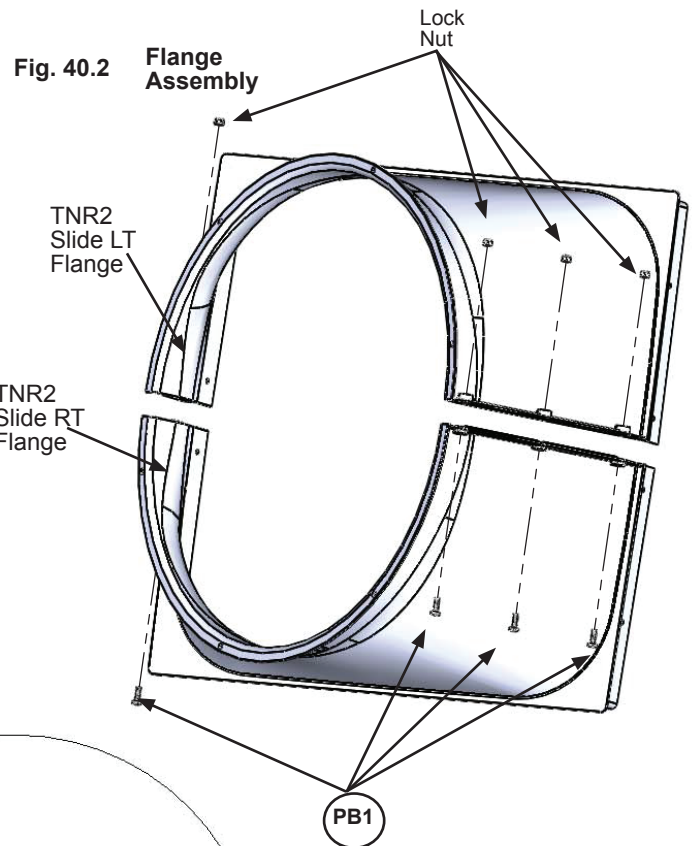
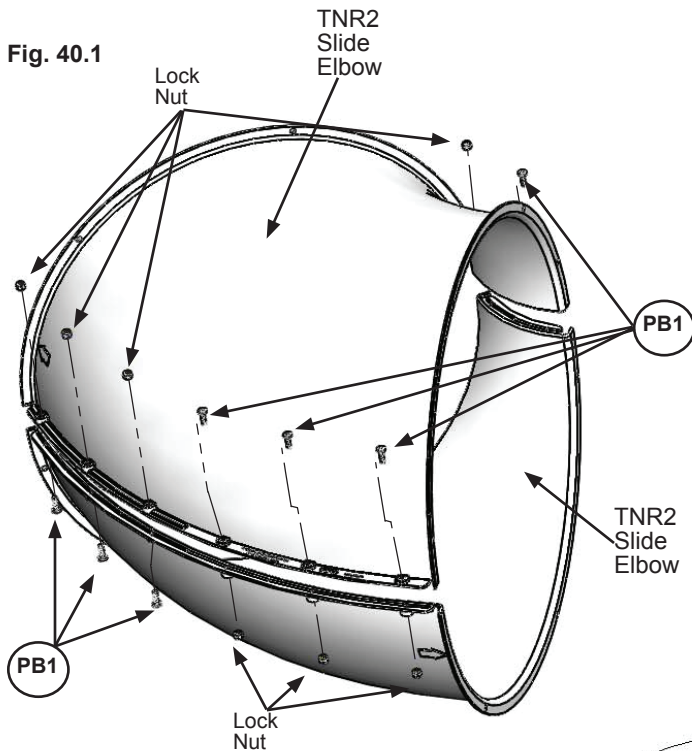


**Note:** When installing Pan Bolts make sure to look at holes so bolts go through the side with the round recess and the lock nuts go through the side with the hexagonal recess. (fig. 40.3)

**A:** Fit 2 TNR2 Slide Elbows together and attach with 8 (PB1) 1/4 x 3/4" Pan Bolts (with lock nut) as shown in fig. 40.1. It is very important to attach bolts as indicated.

**B:** Repeat Step A 3 more times to create 4 Elbow Sections in total.

**C:** Attach TNR2 Slide RT Flange and TNR2 Slide LT Flange together using 4 (PB1) 1/4 x 3/4" Pan Bolts (with lock nut) as shown in fig. 40.2. This creates the Flange Assembly.



## Hardware

36 x PB1 1/4 x 3/4" Pan Bolt  
(1/4" lock nut)

## Other Parts

1 x TNR2 Slide LT Flange  
1 x TNR2 Slide RT Flange  
8 x TNR2 Slide Elbow

# Step 40: Slide Section Assemblies

## Part 2

**Note:** When installing Pan Bolts make sure to look at holes so bolts go through the side with the round recess and the lock nuts go through the side with the hexagonal recess. (fig. 40.3)

**D:** Attach TNR2 Slide Exit Top and the remaining TNR2 Slide Elbow together using 8 (PB1) 1/4 x 3/4" Pan Bolts (with lock nut) as shown in fig. 40.4. It is very important to attach bolts as indicated. This creates the Exit Elbow Assembly.

Fig. 40.4

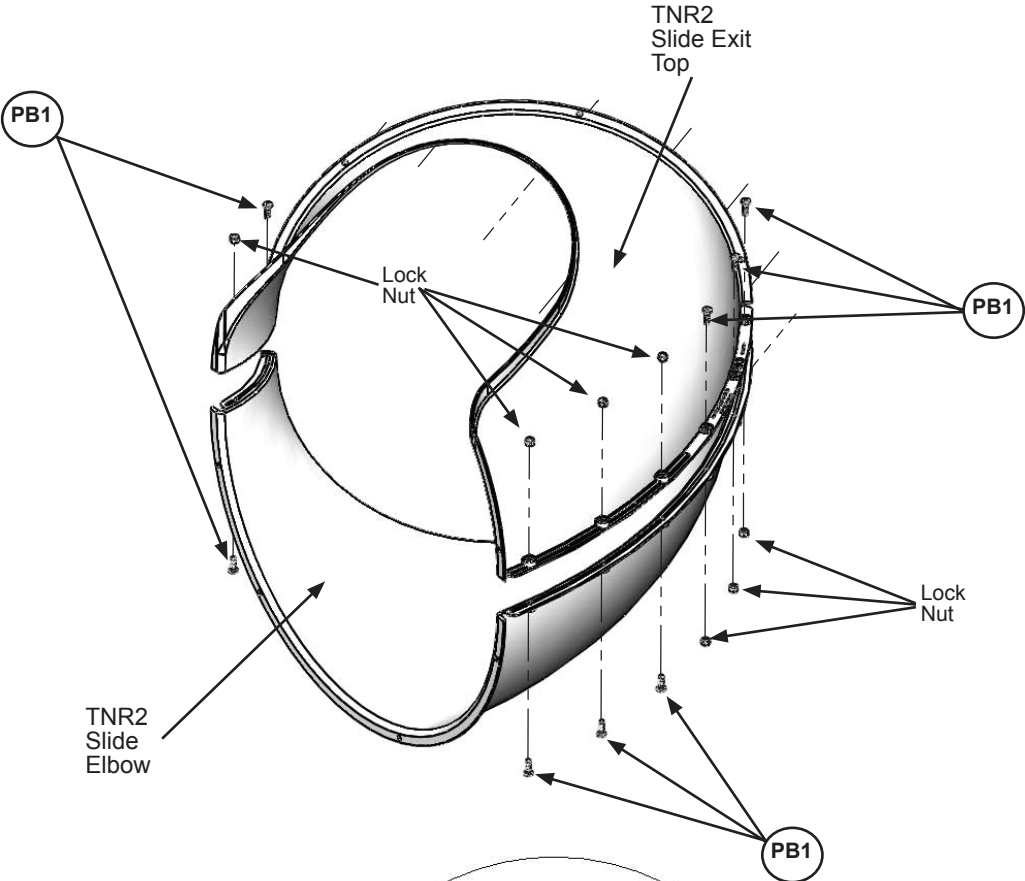
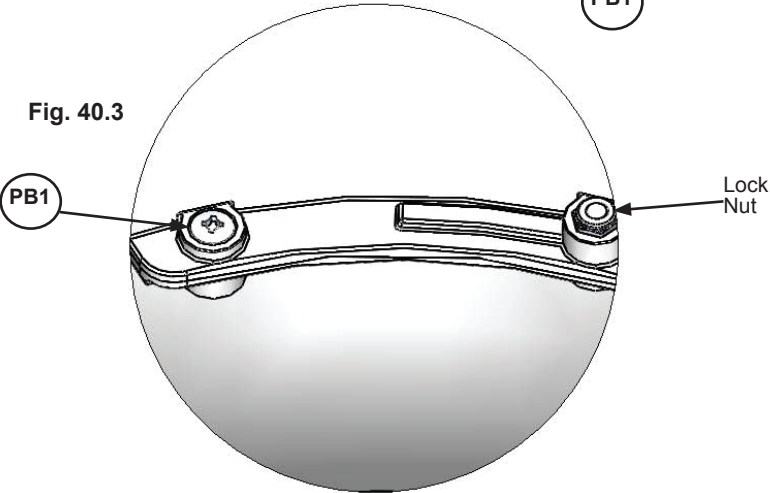


Fig. 40.3



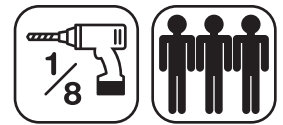
### Hardware

8 x (PB1) 1/4 x 3/4" Pan Bolt  
(1/4" lock nut)

### Other Parts

1 x TNR2 Slide Exit Top  
1 x TNR2 Slide Elbow

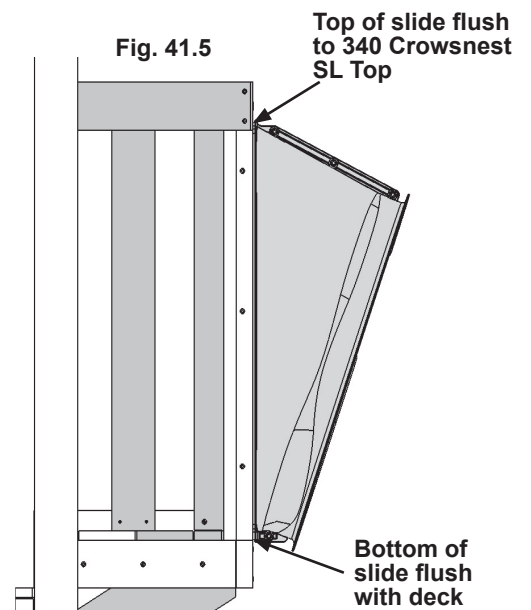
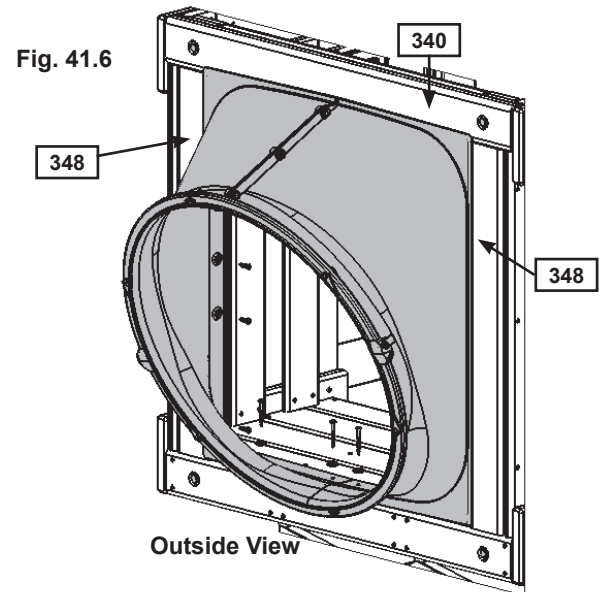
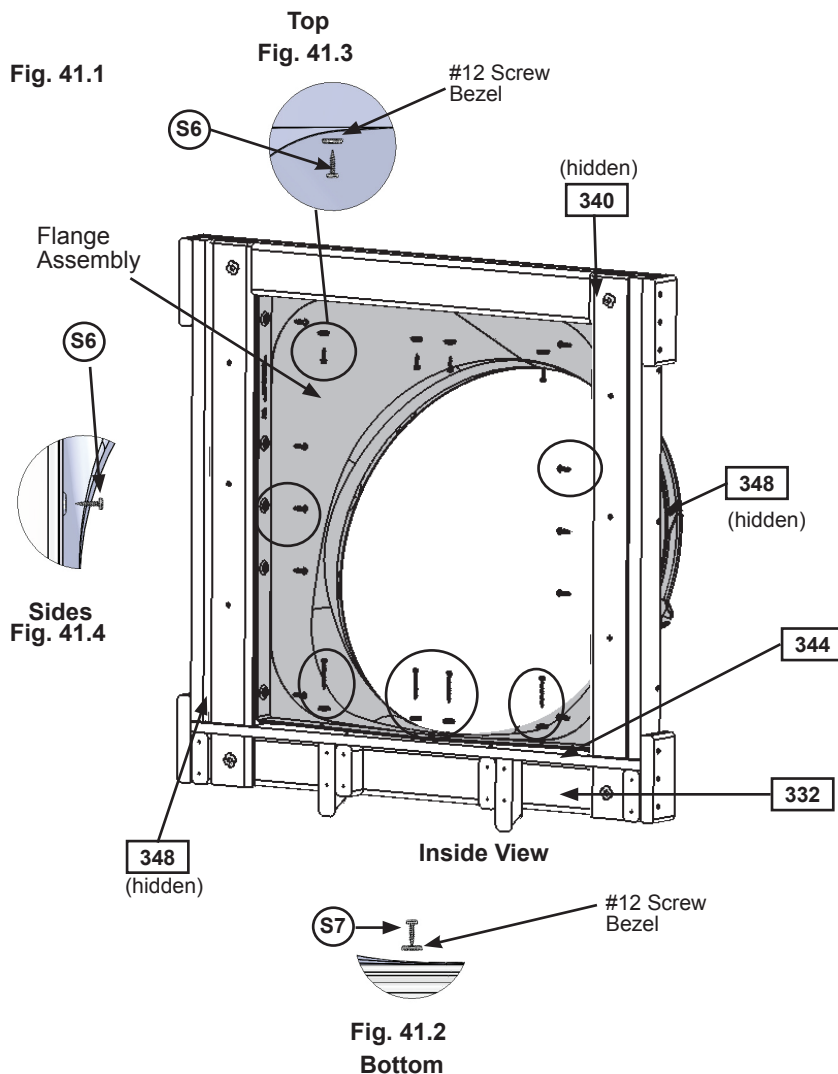
# Step 41: Attach Flange Assembly to Fort



**A:** With a helper place the Flange Assembly flush to the Crowsnest on the fort as shown in fig. 41.1, then pre-drill 1/8" pilot holes in the bottom 4 mounting locations on (344) Crowsnest Gap (approximate spots where circles are on figure), making sure the pre-drilled holes are a minimum of 1" deep.

**B:** Attach Flange Assembly to the Crowsnest through (344) Crowsnest Gap and into (332) Crowsnest Front using 4 (S7) #12 x 2" Pan Screws (with #12 Screw Bezel) in the pre-drilled holes. (fig. 41.1 and 41.2) Make sure the flat surfaces of the Flange Assembly are flush to the Crowsnest as shown in fig. 41.5.

**C:** Attach the Flange Assembly flush to (340) Crowsnest SL Top using 4 (S6) #12 x 1" Pan Screws (with #12 Screw Bezel) as shown in fig. 41.1 and 41.3 and to both (348) Crowsnest Faces using 5 (S6) #12 x 1" Pan Screw per board. (fig. 41.1 and 41.4)



## Hardware

- 14 x (S6) #12 x 1" Pan Screw
- 4 x (S7) #12 x 2" Pan Screw
- 8 x #12 Screw Bezel

# Step 42: Attach Elbow Assembly to Flange Assembly Part 1



**Note:** When installing Pan Bolts make sure to look at holes so bolts go through the side with the round recess and the lock nuts go through the side with the hexagonal recess. Keep all bolts loose until further step.

**A:** Fit one of the Elbow Assemblies to the Flange Assembly by lining up the arrows on each assembly. (fig. 42.2 and 42.3)

**B:** Attach 1 TNR2 Slide Clamp Ring to the top of the joined Assemblies using 3 (PB1) 1/4 x 3/4" Pan Bolts (with lock nut), making sure to match the arrows up with the end of the clamp ring (where a seam will be) as shown in fig. 42.2 and 42.3.

*Use Quadrex Driver as a guide pin for each hole before inserting bolt. (fig. 42.3)*

Fig. 42.1

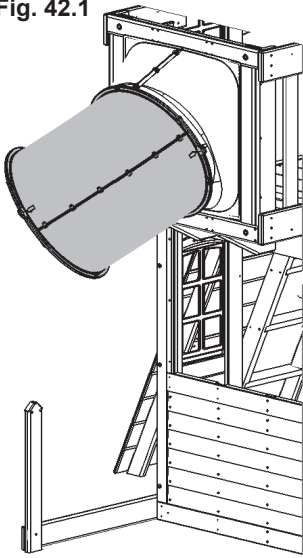


Fig. 42.4



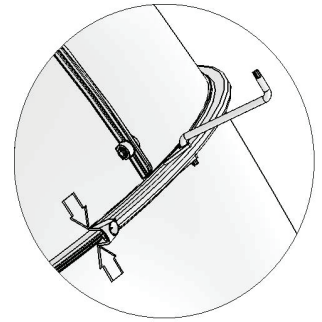
Do not install bolt  
in Clamp Ring ends  
until Step 42D

Quadrex Driver



Use special driver provided  
in locations where the curve  
of the elbow are difficult to  
reach with a standard driver.

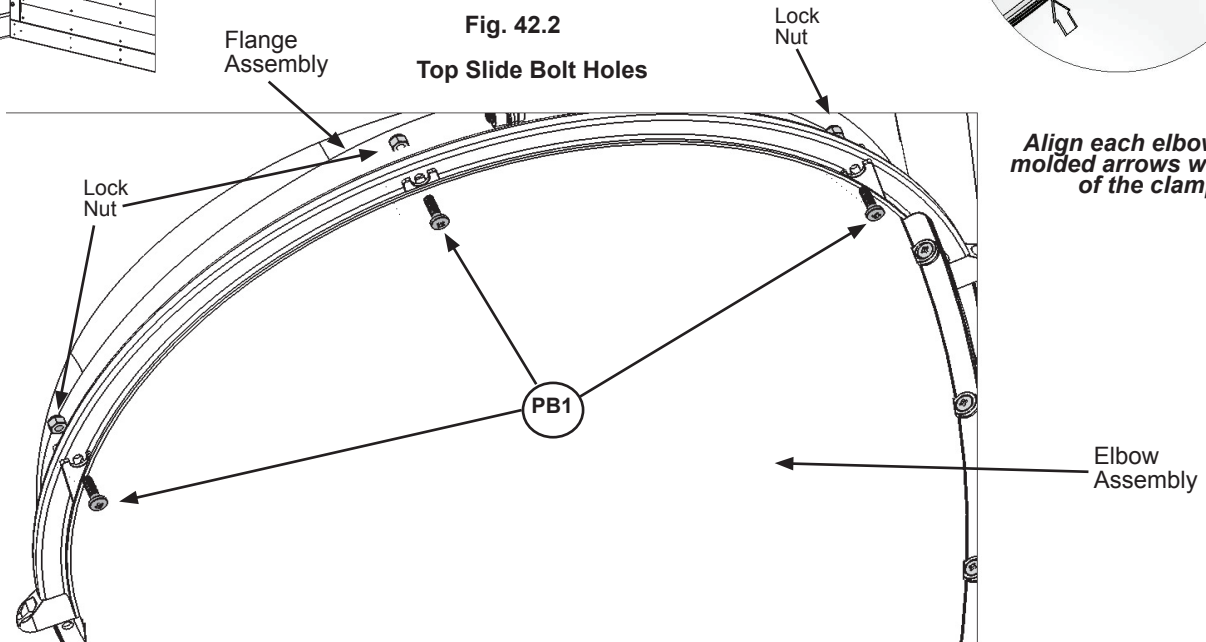
Fig. 42.3



Align each elbow using the  
molded arrows with the seam  
of the clamp ring.

Fig. 42.2

Top Slide Bolt Holes



## Hardware

3 x (PB1) 1/4 x 3/4" Pan Bolt  
(1/4" lock nut)

## Other Parts

1 x Quadrex Driver  
1 x TNR2 Slide Clamp Ring

## Step 42: Attach Elbow Assembly to Flange Assembly Part 2



**Note:** When installing Pan Bolts make sure to look at holes so bolts go through the side with the round recess and the lock nuts go through the side with the hexagonal recess. Keep all bolts loose until further step.

**C:** Attach 1 TNR2 Slide Clamp Ring to the bottom of the joined Assemblies using 2 (PB1) 1/4 x 3/4" Pan Bolts (with lock nut) on one side and 1 (PB1) 1/4 x 3/4" Pan Bolt (with lock nut) in the other side, making sure to match the arrows up with the end of the clamp ring (where a seam will be) as shown in fig. 42.5, 42.6 and 42.7.

**D:** Connect the 2 TNR2 Slide Clamp Rings together in 2 spots using 1 (PB1) 1/4 x 3/4" Pan Bolt (with lock nut) per hole. Make sure seams and arrows line up and then tighten all bolts. (fig. 42.8 and 42.9).

Fig. 42.5

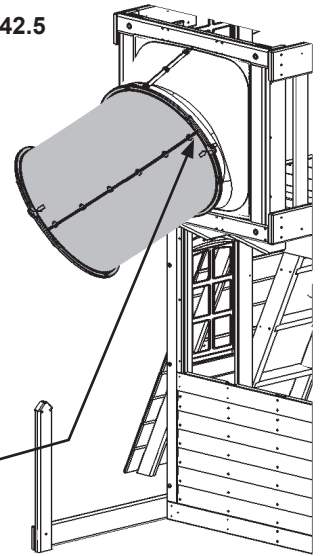


Fig. 42.6

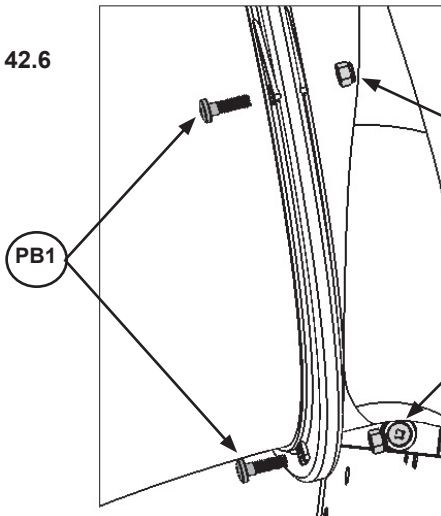


Fig. 42.7 (Side not shown)

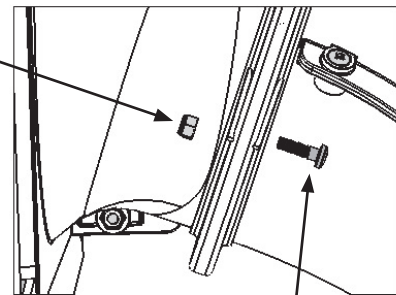


Fig. 42.8

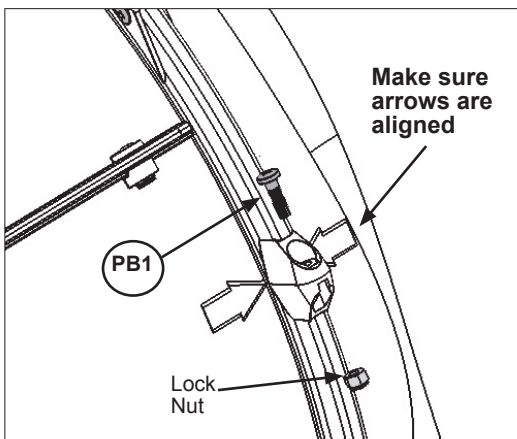
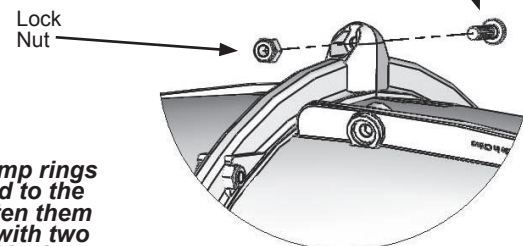


Fig. 42.9



**After the clamp rings are attached to the elbows, fasten them end to end with two pan bolts and lock nuts**

### Hardware

5 x (PB1) 1/4 x 3/4" Pan Bolt  
(1/4" lock nut)

### Other Parts

1 x TNR2 Slide Clamp Ring

# Step 43: Attach Elbow Assembly to Elbow Assembly Part 1



**Note:** When installing Pan Bolts make sure to look at holes so bolts go through the side with the round recess and the lock nuts go through the side with the hexagonal recess. Keep all bolts loose until further step.

**A:** Fit a second Elbow Assembly to the first Elbow Assembly by lining up the arrows on each assembly. Notice the elbow orientation. (fig. 43.1)

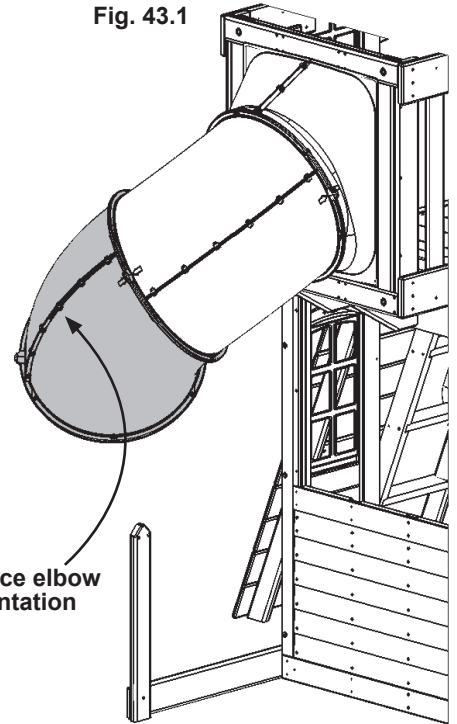
**B:** Attach 1 TNR2 Slide Clamp Ring to the top of the joined Assemblies using 3 (PB1) 1/4 x 3/4" Pan Bolts (with lock nut), making sure to match the arrows up with the end of the clamp ring (where a seam will be) as shown in fig. 43.2 and 43.3.

**Use Quadrex Driver as a guide pin for each hole before inserting bolt.**



Do not install bolt  
in Clamp Ring ends  
until Step 43D

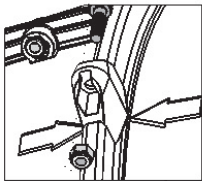
Fig. 43.1



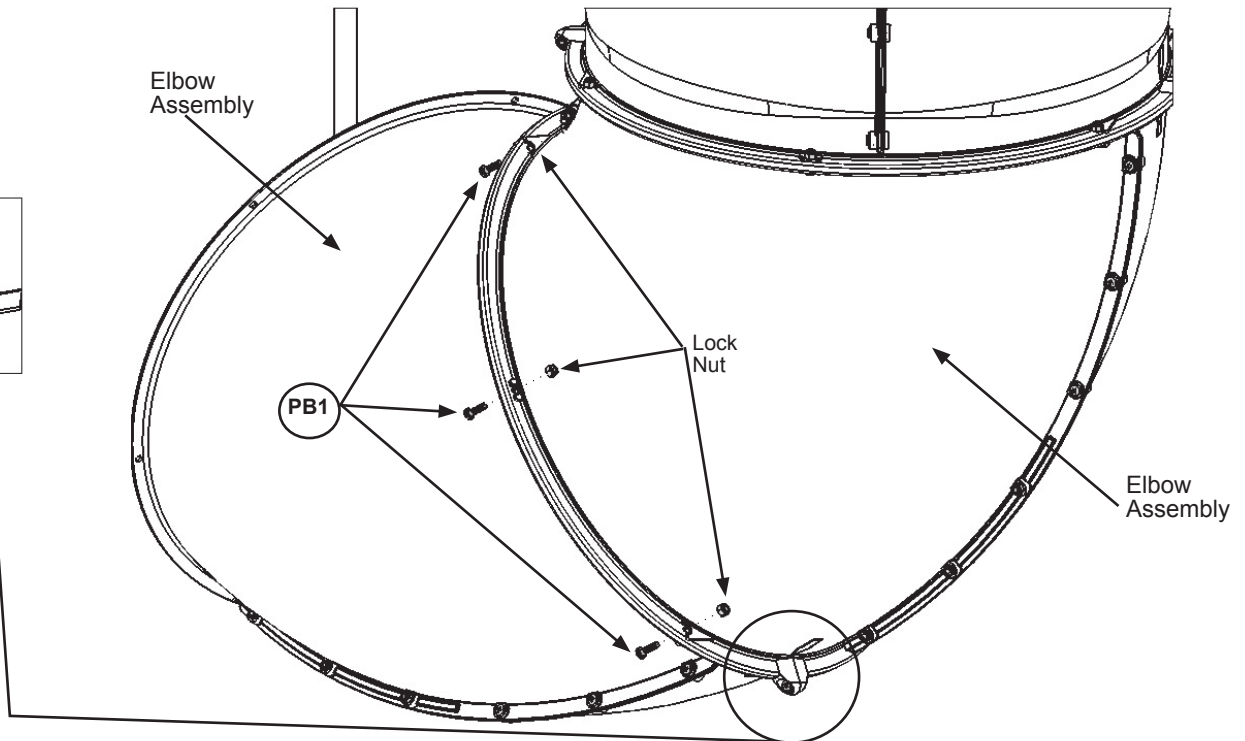
Notice elbow  
orientation

Fig. 43.2  
Top Slide Bolt Holes

Fig. 43.3



Make sure  
arrows are  
aligned



## Hardware

3 x (PB1) 1/4 x 3/4" Pan Bolt  
(1/4" lock nut)

## Other Parts

1 x TNR2 Slide Clamp Ring

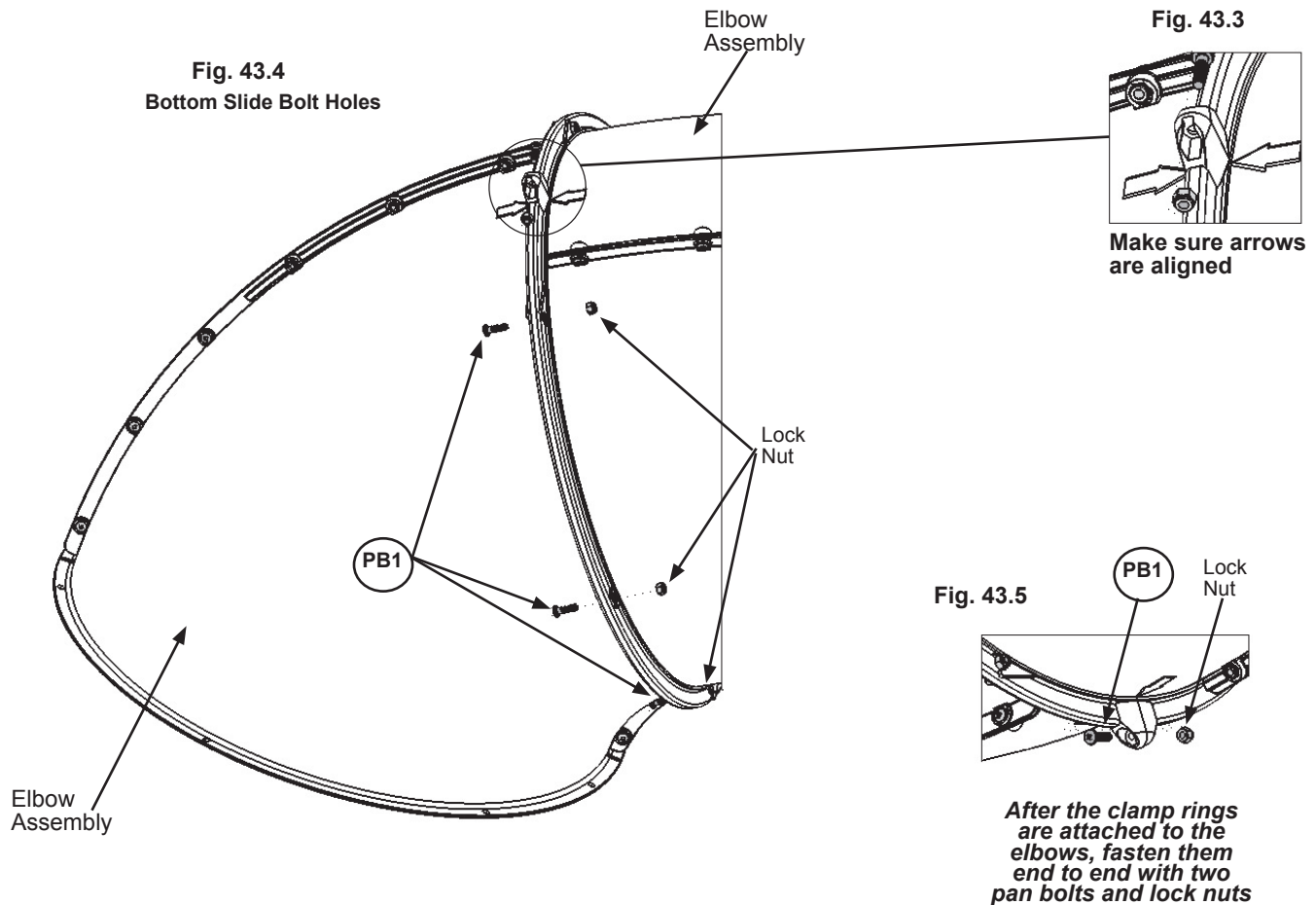
## Step 43: Attach Elbow Assembly to Elbow Assembly Part 2



**Note:** When installing Pan Bolts make sure to look at holes so bolts go through the side with the round recess and the lock nuts go through the side with the hexagonal recess. Keep all bolts loose until further step.

**C:** Attach 1 TNR2 Slide Clamp Ring to the bottom of the joined Assemblies using 3 (PB1) 1/4 x 3/4" Pan Bolts (with lock nut), making sure to match the arrows up with the end of the clamp ring (where a seam will be) as shown in fig. 43.3 and 43.4.

**D:** Connect the 2 TNR2 Slide Clamp Rings together in 2 spots using 1 (PB1) 1/4 x 3/4" Pan Bolt (with lock nut) per hole. Make sure seams and arrows line up and then tighten all bolts. (fig. 43.3 and 43.5).



### Hardware

5 x PB1 1/4 x 3/4" Pan Bolt  
(1/4" lock nut)

### Other Parts

1 x TNR2 Slide Clamp Ring

## Step 44: Attach Elbow Assemblies and TNR2 Slide Support



**Note:** When installing Pan Bolts make sure to look at holes so bolts go through the side with the round recess and the lock nuts go through the side with the hexagonal recess. Keep all bolts loose until further step.

**A:** Attach the two remaining Elbow Assemblies as instructed in Steps 42 and 43.

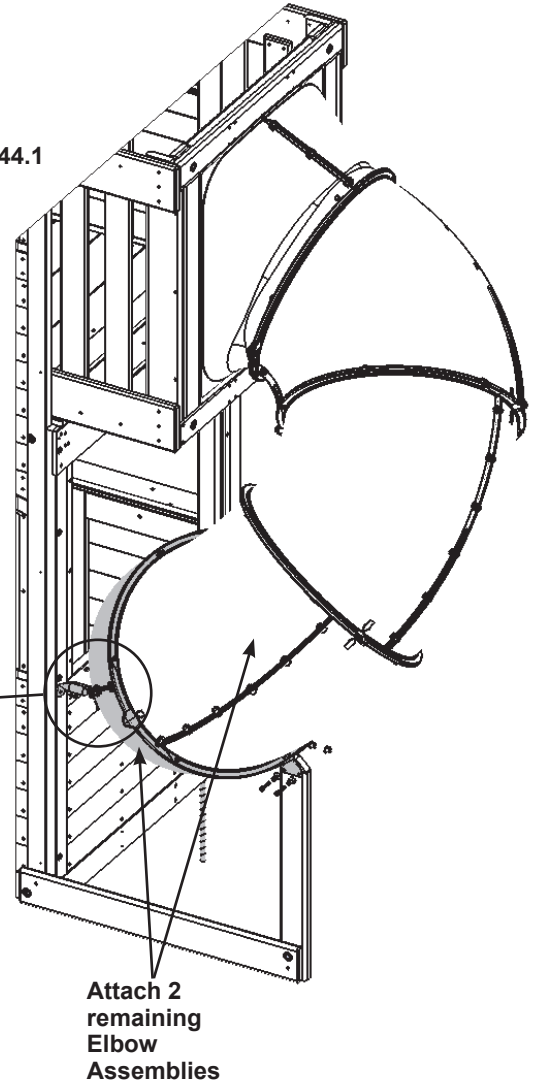
**B:** On the fourth Elbow Assembly attached remove the pan bolt and nut which is facing the fort (installed in Step 40). (fig. 44.1) **The bolt will no longer be needed, but keep the lock nut.**

**C:** Loosely attach TNR2 Slide Support (at the slightly bent end) to the Clamp Ring using 1 (PB6) 1/4 x 1" Pan Bolt (with flat washer and the previously removed lock nut). (fig. 44.2)

**D:** Rotate TNR2 Slide Support and attach to (060) SL Panel using 1 (S6) #12 x 1" Pan Screw as shown in fig. 44.2.

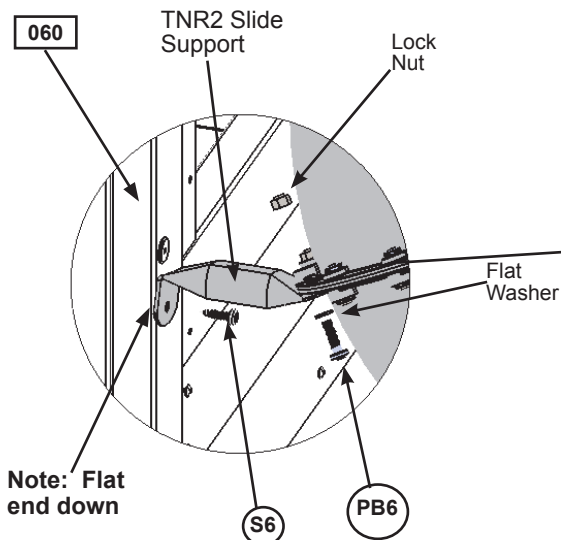
**E:** Fully tighten screw and bolt.

Fig. 44.1



Remove PB1 (1/4 x 3/4" Pan Bolt first then install PB6 (1/4 x 1" Pan Bolt with flat washer)

Fig. 44.2



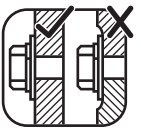
### Hardware

- 1 x (S6) #12 x 1" Pan Screw
- 1 x (PB6) 1/4 x 1" Pan Bolt  
(1/4" flat washer & 1/4" lock nut - previously removed)
- 16 x (PB1) 1/4 x 3/4" Pan Bolt  
(1/4" lock nut)

### Other Parts

- 1 x TNR2 Slide Support
- 4 x TNR2 Slide Clamp Ring

## Step 45: Attach SL Support to Ground Back



**A:** Insert TNR2 Post Mount on (400) SL Support and attach with 2 (PB2) 1/4 x 1-1/4" Pan Bolts (with lock washer and t-nut). **Keep these bolts loose.** (fig. 45.1 and 45.2)

**B:** Use (400) SL Support as a guide to judge the proper bolt location, remove the bottom pan bolt and nut. **The bolt will no longer be needed, but keep the lock nut.** (fig. 45.2)

**C:** Attach the top of the TNR2 Post Mount to TNR2 Slide Clamp Ring using 1 (PB2) 1/4 x 1-1/4" Pan Bolt (with the previously removed lock nut). (fig. 45.2)

Fig. 45.1

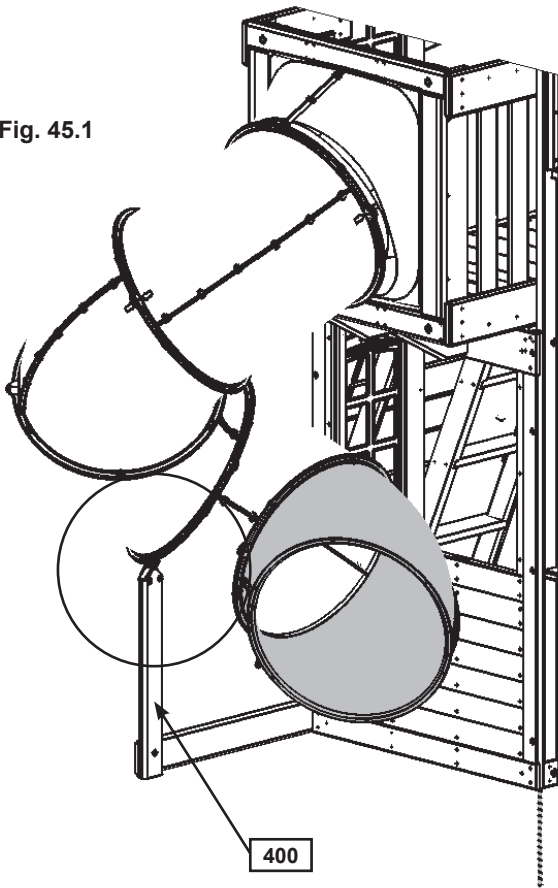
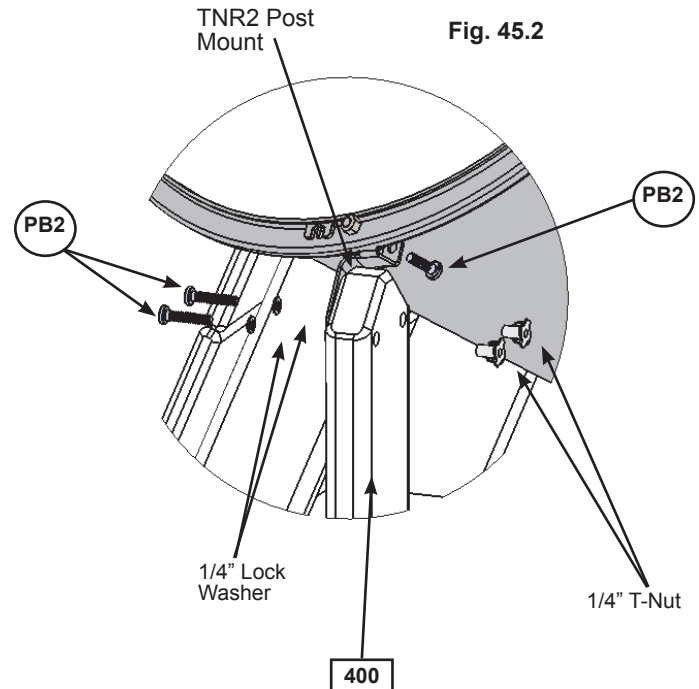


Fig. 45.2



Remove PB1 (1/4 x 3/4" Pan Bolt first then install PB2 (1/4 x 1-1/4" Pan Bolt with previously removed lock nut)

### Hardware

3 x (PB2) 1/4 x 1-1/4" Pan Bolt  
2 - (1/4" lock washer & 1/4" t-nut)  
1 - (1/4" lock nut - previously removed)

### Other Parts

1 x TNR2 Post Mount

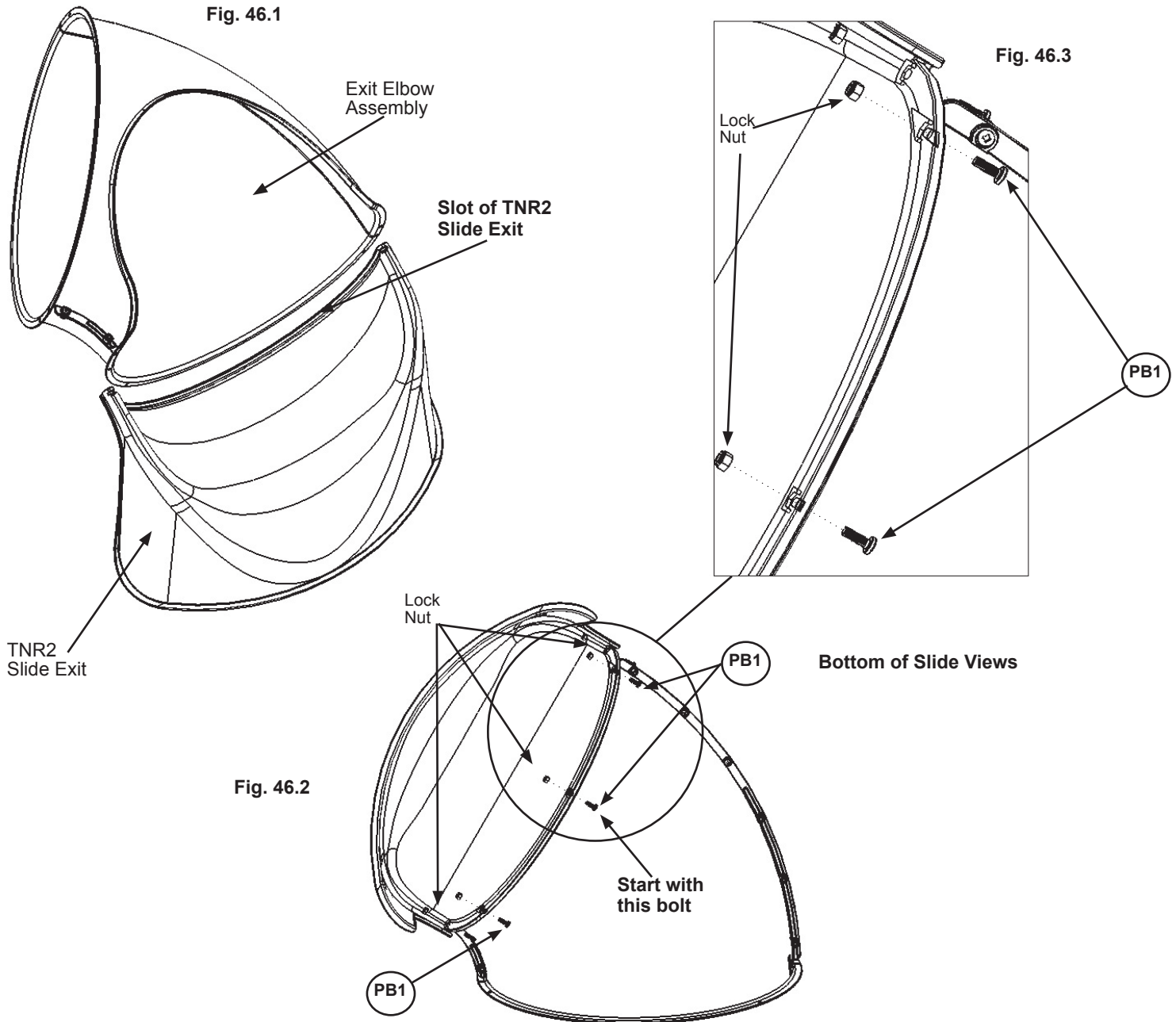
## Step 46: Attach TNR2 Slide Exit to Exit Elbow Assembly



**A:** Insert flange of Exit Elbow Assembly (slide elbow) into the slots on TNR2 Slide Exit. (fig. 46.1)

**B:** Rotate Slide Exit and use Quadrex Driver as a guide pin so the holes are aligned and attach with 5 (PB1) 1/4 x 3/4" Pan Bolts (with lock nuts) starting with the bottom middle hole and working up each side. (fig. 46.2 and 46.3)

**C:** At this point make sure all the slide bolts are tight. **Use a 7/16" open end wrench to hold nut and then tighten bolt with Quadrex Driver on Clamp Rings.**



### Hardware

5 x (PB1) 1/4 x 3/4" Pan Bolt  
(1/4" lock nut)

### Other Parts

1 x TNR2 Slide Exit

## Step 47: Attach Exit End Assembly to Fort



**Note:** When installing Pan Bolts make sure to look at holes so bolts go through the side with the round recess and the lock nuts go through the side with the hexagonal recess. Keep all bolts loose until further step.

**A:** Fit the Exit End Assembly to the last Elbow Assembly by lining up the arrows on each assembly. Notice the elbow orientation. (fig. 47.1)

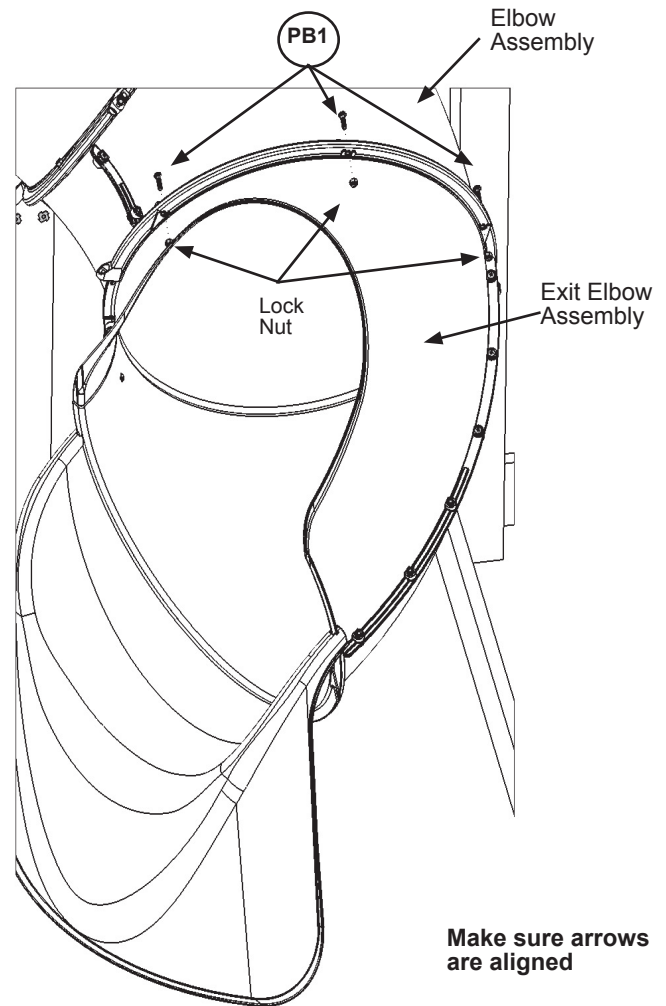
**B:** Attach 1 TNR2 Slide Clamp Ring to the top of the joined Assemblies using 3 (PB1) 1/4 x 3/4" Pan Bolts (with lock nut), making sure to match the arrows up with the end of the clamp ring (where a seam will be) as shown in fig. 47.1.

**Use Quadrex Driver as a guide pin for each hole before inserting bolt.**

**C:** Attach 1 TNR2 Slide Clamp Ring to the bottom of the joined Assemblies using 3 (PB1) 1/4 x 3/4" Pan Bolts (with lock nut), making sure to match the arrows up with the end of the clamp ring (where a seam will be) as shown in fig. 47.2.

**D:** Connect the 2 TNR2 Slide Clamp Rings together in 2 spots using 1 (PB1) 1/4 x 3/4" Pan Bolt (with lock nut) per hole. Make sure seams and arrows line up and then tighten all bolts. (fig. 47.3).

Fig. 47.1 Top Slide Bolt Holes



Make sure arrows are aligned

Fig. 47.2 Bottom Slide Bolt Holes

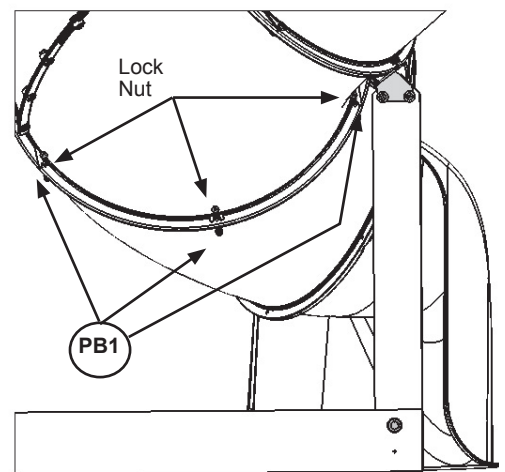
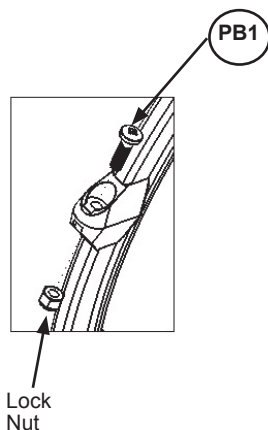


Fig. 47.3

After the clamp rings are attached to the elbows, fasten them end to end with two pan bolts and lock nuts



### Hardware

8 x (PB1) 1/4 x 3/4" Pan Bolt (1/4" lock nut)

### Other Parts

2 x TNR2 Slide Clamp Ring

## Step 48: Attach Ground Stake to SL Support

**A:** In the spot shown in fig. 48.1 drive 1 Rebar Ground Stake 13" into the ground against the (400) SL Support. Be careful not to hit the washer while hammering stake into the ground as this could cause the washer to break off.

**B:** Attach the ground stake to (400) SL Support using 1 (S7) #12 x 2" Pan Screw as shown in fig. 48.2.

**C:** After driving stakes into the ground, check for sharp edges caused by the impact of the hammer. Smooth any sharp edges from impact area and touch up with outdoor paint.



**Warning! To prevent tipping and avoid potential injury, stakes must be driven 13" into ground. Digging or driving stakes can be dangerous if you do not check first for under-ground wiring, cables or gas lines.**

Fig. 48.1

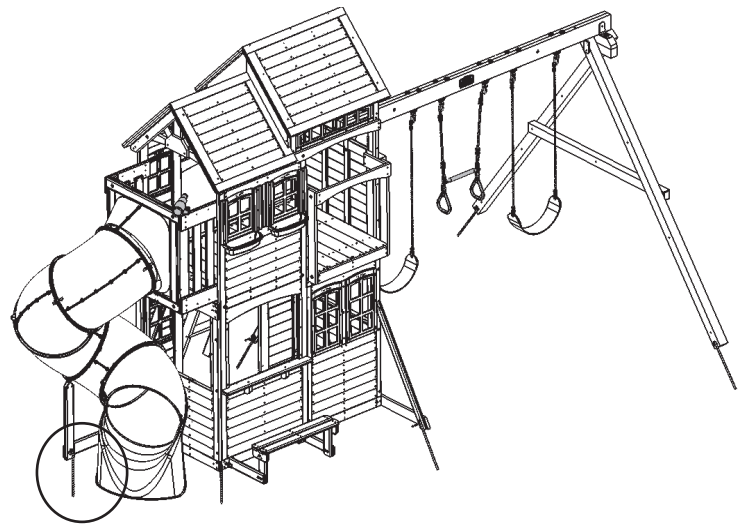
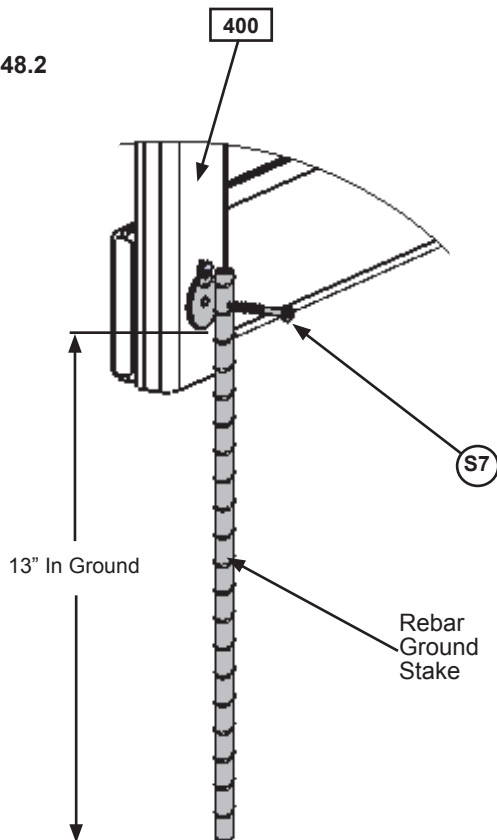



Fig. 48.2



### Hardware

1 x  #12 x 2" Pan Screw

### Other Parts

1 x Rebar Ground Stakes

## Step 49: Attach Telescope



**A:** On the front, outer corner of the Crowsnest pre-drill with a 1/8" drill bit then attach Telescope to (340) Crowsnest SL Top and (330) Crowsnest Side with 2 (S15) #8 x 1-3/4" Wood Screws. (fig. 49.1 and 49.2)

Fig. 49.1

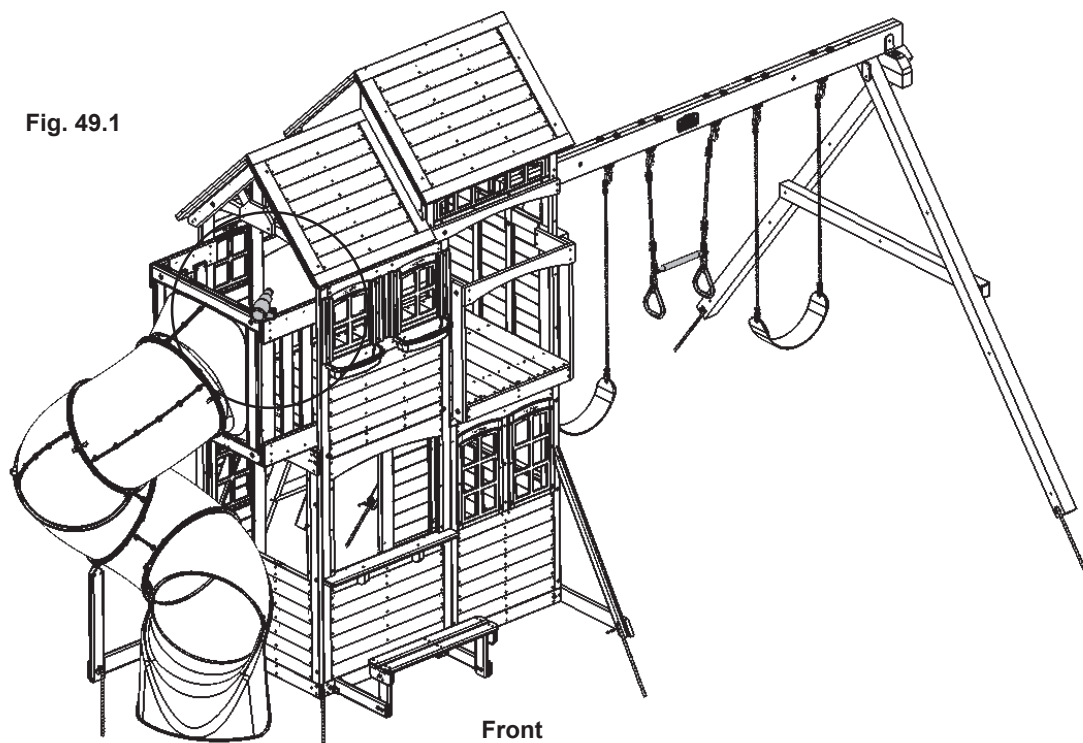
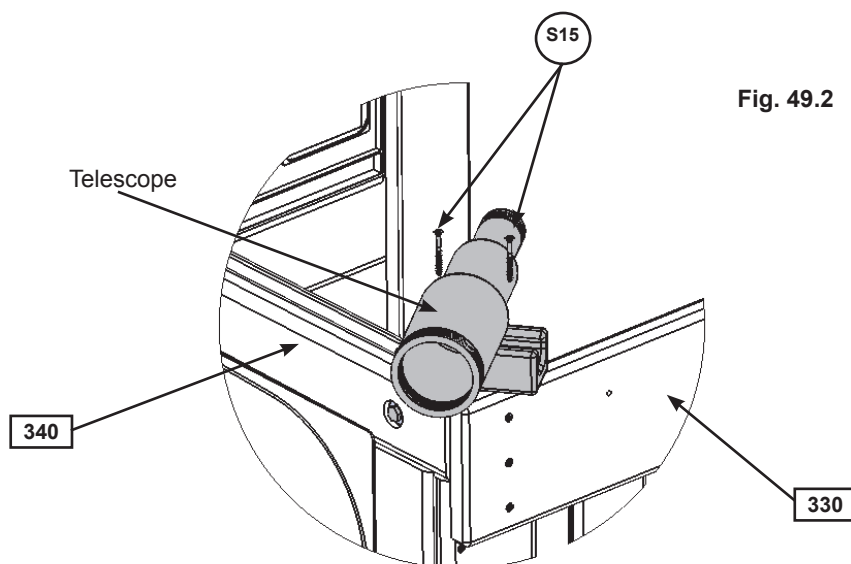


Fig. 49.2



### Hardware

2 x (S15) #8 x 1-3/4" Wood Screw

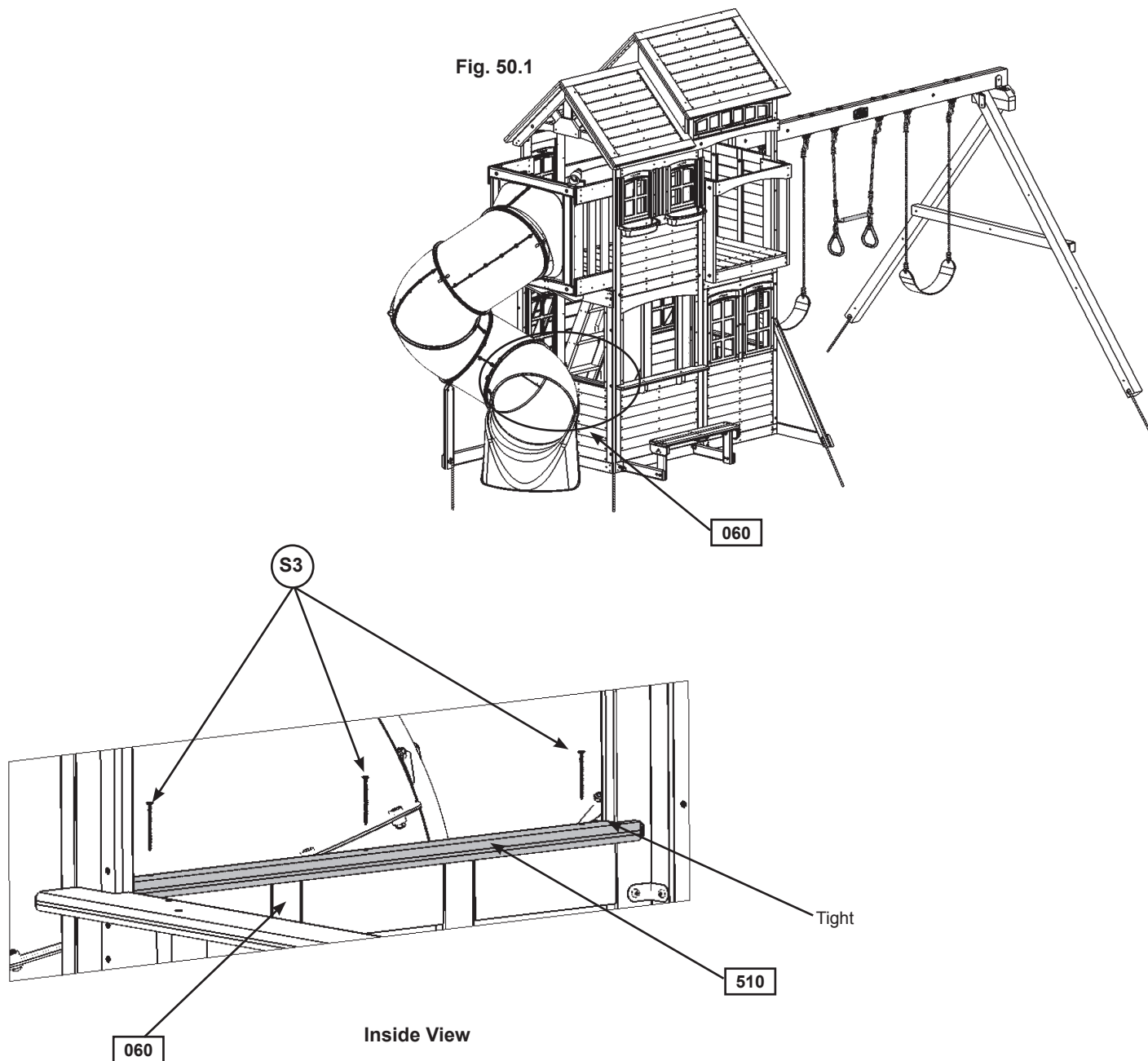
### Other Parts

1 x Telescope

## Step 50: Attach SW Table Top

**A:** In the opening of (060) SL Panel attach (510) SW Table Top, tight to the corners of the panel opening, ledge facing in, with 3 (S3) #8 x 2-1/2" Wood Screws as shown in fig. 50.1 and 50.2.

Fig. 50.1



### Wood Parts

1 x **510** SW Table Top FSC 5/4 x 3 x 34-1/4"

### Hardware

3 x **S3** #8 x 2-1/2" Wood Screw

# Step 51: Lookout Assembly

## Part 1

**A:** Flush to the outside edges of both (122) Posts and flush to the top of the floor boards attach (401) Bottom Board with 4 (S3) #8 x 2-1/2" Wood Screws. (fig. 51.1 and 51.2)

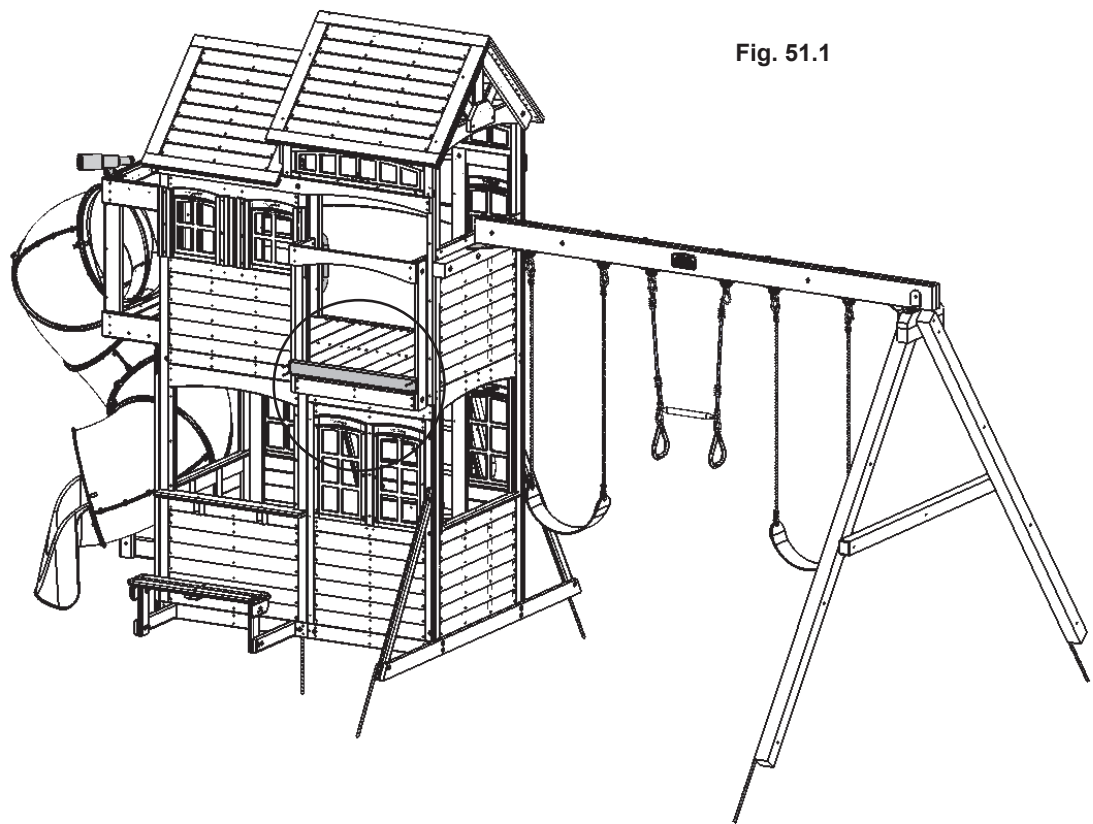
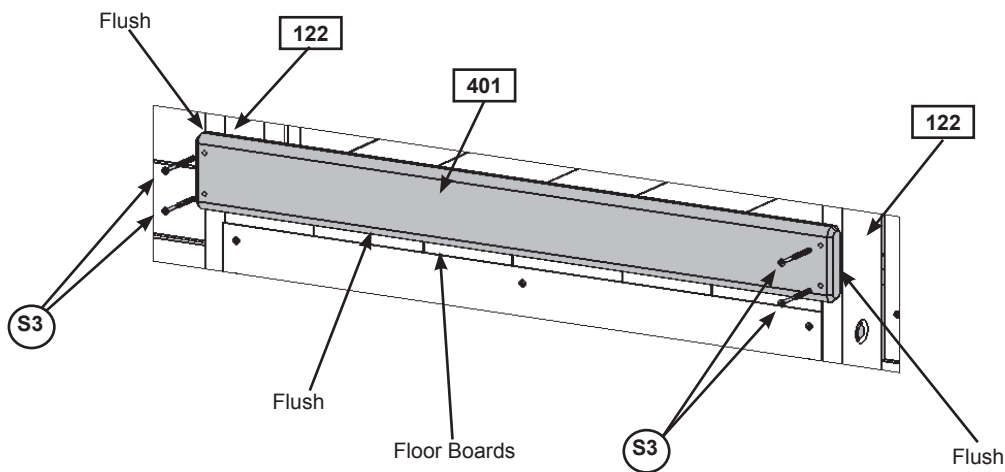


Fig. 51.1

Fig. 51.2



**Wood Parts**

1 x 401 Bottom Board FSC 5/4 x 4 x 30-5/8"

**Hardware**

4 x S3 #8 x 2-1/2" Wood Screw

## Step 51: Lookout Assembly Part 2

**B:** Centre (410) Centre Board between both (122) Posts and place tight to the floor boards then attach to (401) Bottom Board and (125) SL Top with 4 (S20) #8 x 1-3/8" Wood Screws as shown in fig. 51.3 and 51.4.

**C:** Evenly space 2 (411) Wall Boards between (410) Centre Board and each (122) Post, tight to the floor boards, then attach to (401) Bottom Board and (125) SL Top with 4 (S20) #8 x 1-3/8" Wood Screws per board. (fig. 51.3 and 51.4)

Fig. 51.3

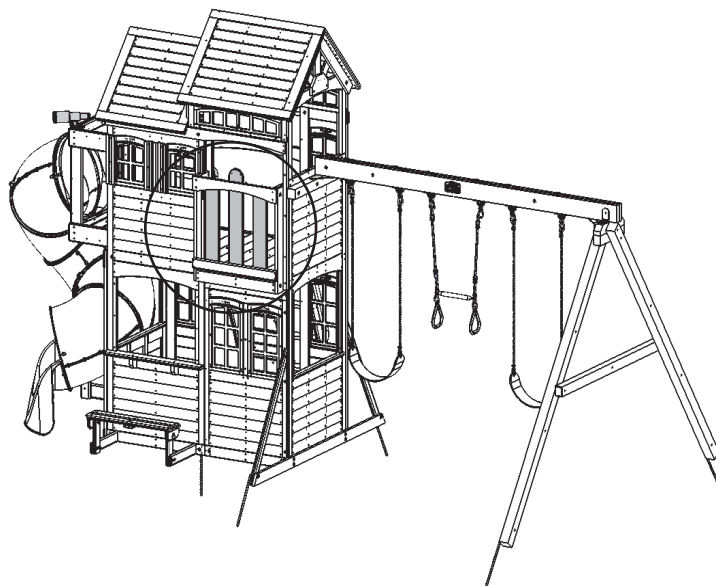
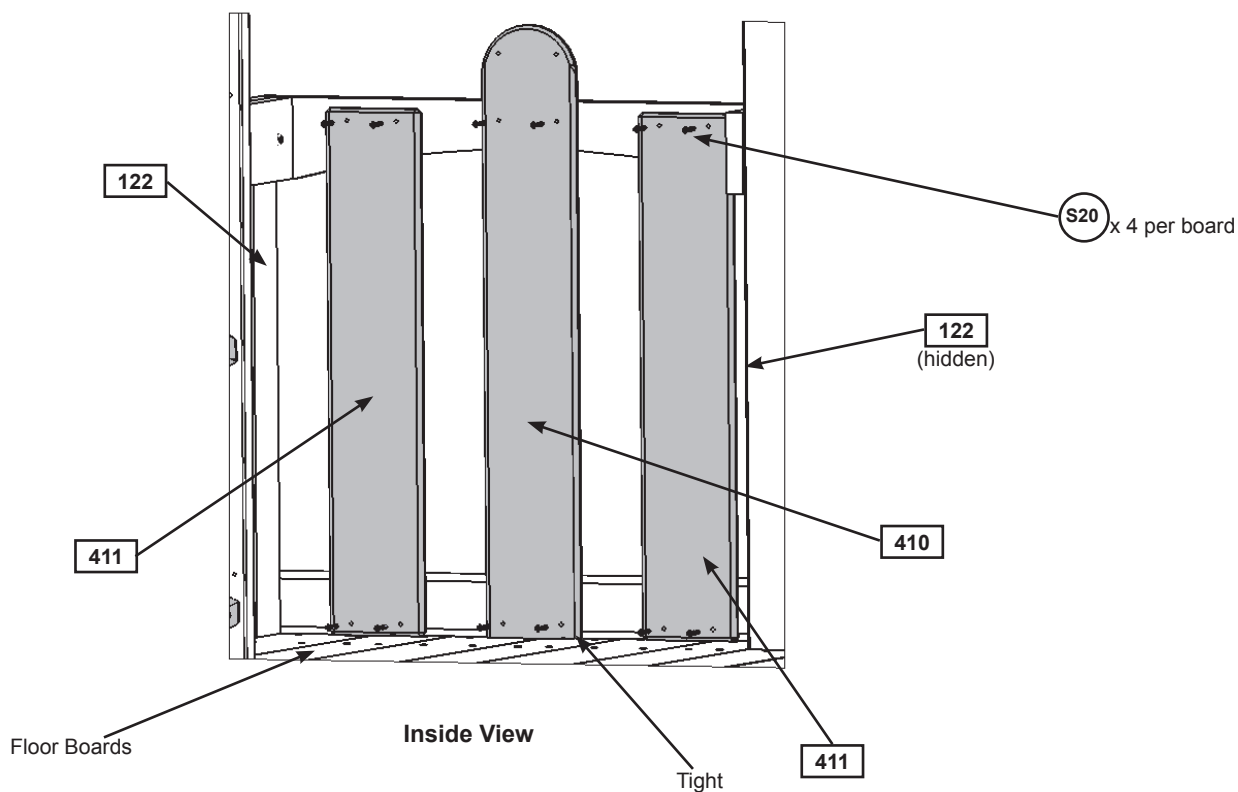


Fig. 51.4



### Wood Parts

- 1 x (410) Centre Board FSC 1 x 6 x 32"
- 2 x (411) Wall Board FSC 1 x 6 x 27-1/2"

### Hardware

- 12 x (S20) #8 x 1-3/8" Wood Screw

## Step 52: Attach Steering Wheel



**A:** Place (165) Steering Wheel Dash on top of (125) SL Top, centred over (410) Centre Board and attach to (125) SL Top with 2 (S3) #8 x 2-1/2" Wood Screws and to (410) Centre Board with 2 (S20) #8 x 1-3/8" Wood Screws. (fig. 52.1, 52.2 and 52.3)

**B:** Pre-drill with a 1/8" drill bit, then attach Steering Wheel to (410) Centre Board and (165) Steering Wheel Dash with 1 (WL5) 1/4 x 2-1/2" Wafer Lag (with flat washer). (fig. 52.1 and 52.4)

Fig. 52.1

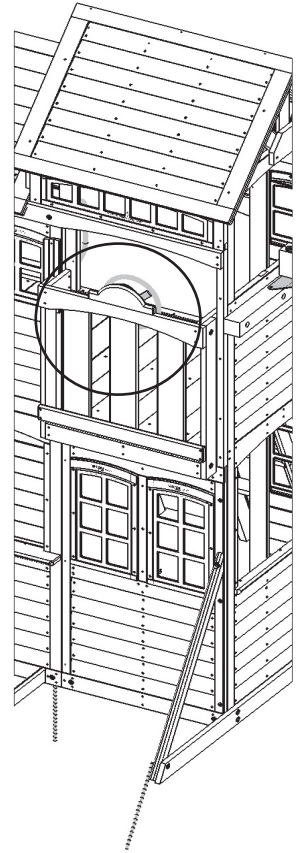


Fig. 52.2

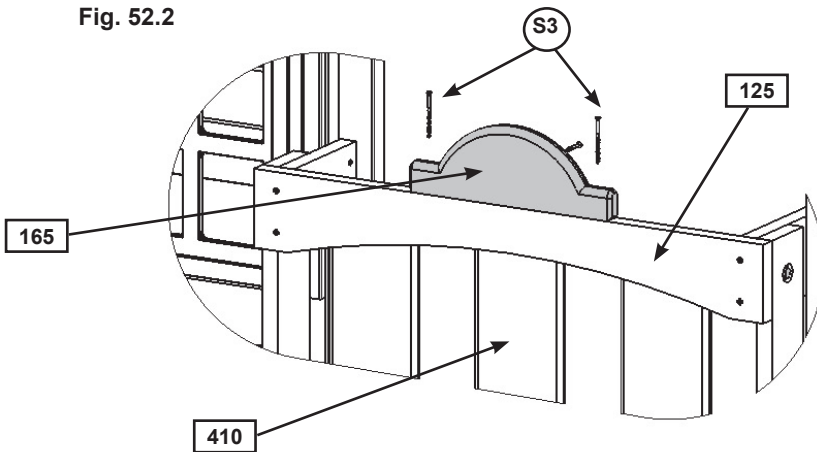
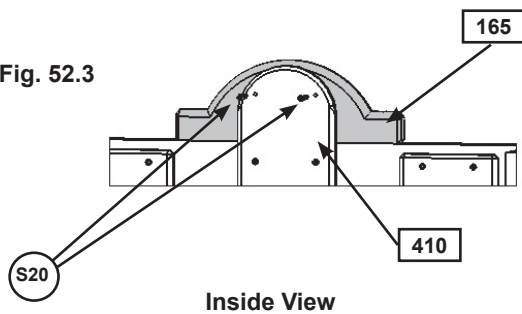
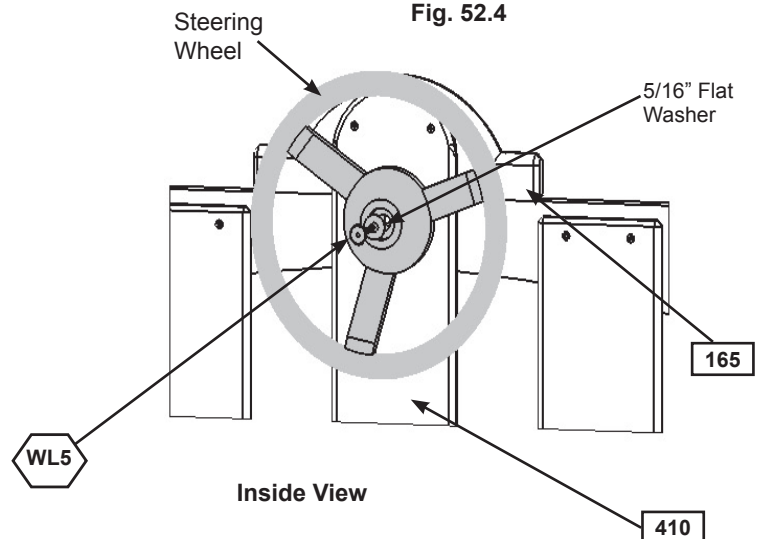


Fig. 52.3



Inside View

Fig. 52.4



Inside View

**⚠ Warning!** Check entire play center for bolts protruding beyond T-Nuts. Use extra washers to eliminate this condition.

### Wood Parts

1 x 165 Steering Wheel Dash FSC 5/4 x 5 x 12-1/8"

### Hardware

2 x S3 #8 x 2-1/2" Wood Screw  
2 x S20 #8 x 1-3/8" Wood Screw  
1 x WL5 1/4 x 2-1/2" Wafer Lag (5/16" flat washer)

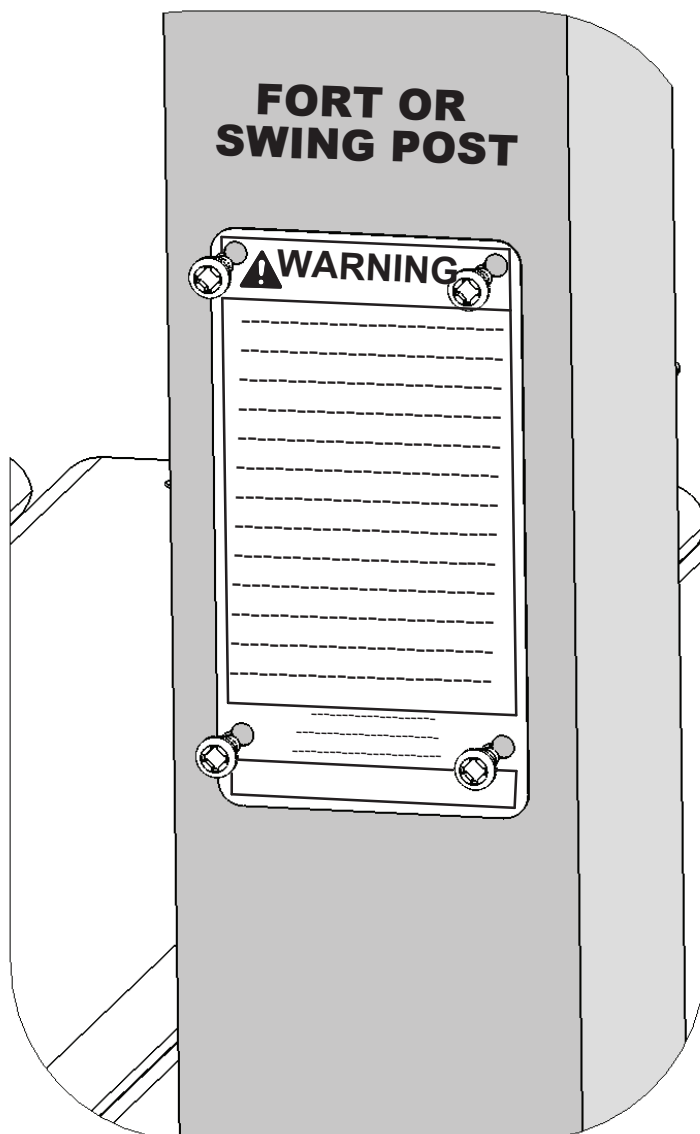
### Other Parts

1 x Steering Wheel

## Final Step: Attach I.D. Plaque

### ATTACH THIS WARNING & I.D. PLAQUE TO A PROMINENT LOCATION ON YOUR PLAY EQUIPMENT! (Fort or Swing Post)

This provides warnings concerning safety and important contact information. A Tracking Number is provided to allow you to get critical information or order replacement parts for this specific model.



Attach with screws provided to a location on your set that is easily seen and read by a supervising adult.



[illegible]

