



**CH47**

# **Installation Instructions**



# Installation Instructions

## CH47

Required Crew: 2 Required but 3-4 Recommended  
Concrete: 21-23, 80 lb. bags

### Required Tools:

- Wheelbarrow
- Step Ladder (6' or taller)
- Shovel
- Tape Measure
- Digging Bar or Pick
- Level
- Allen Wrench (Provided)
- Open end or Box Wrenches: 9/16", 3/4"
- Hammer or Mallet
- Ratchet Handle & Sockets: 3/4"
- Marker Pen
- Drill: Cordless or electric, or impact driver
- Phillips bit

**It is important that you choose to protect your vision by wearing proper safety glasses during each and every phase of this construction process.**

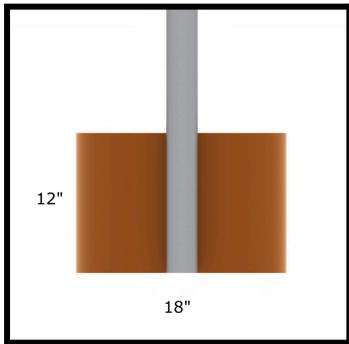
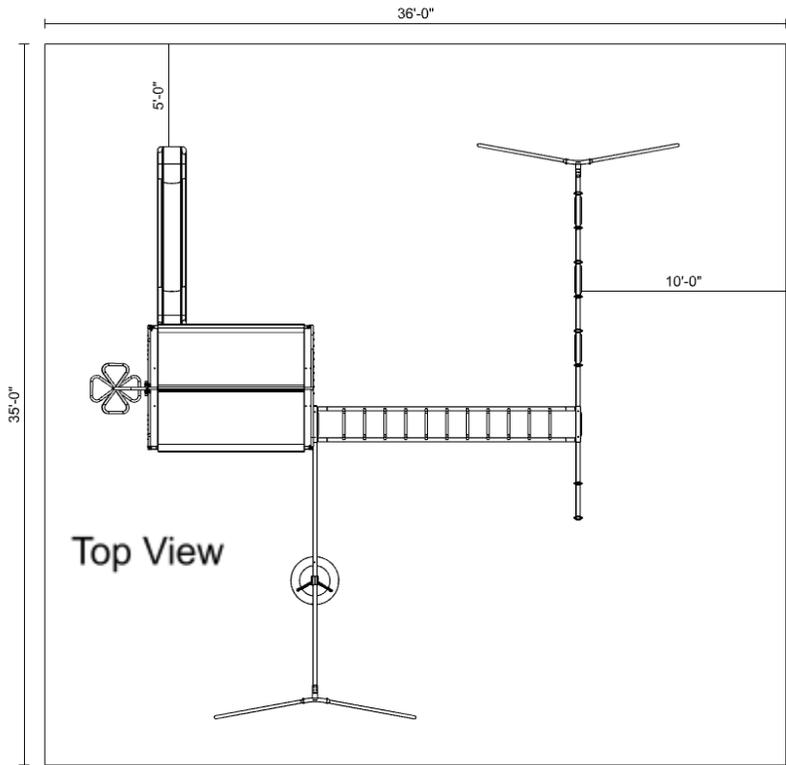
### **PLEASE READ AND UNDERSTAND ALL INSTRUCTIONS BEFORE BEGINNING**

The CH47 can be installed as a one to two day project. The normal time required to install the CH47 is about 12-15 hours for a two man crew. This time requirement will vary depending upon the composition of the soil and the speed of the installers. Mix and pour the concrete as the last step.

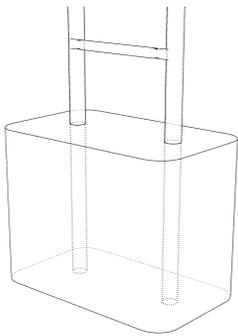
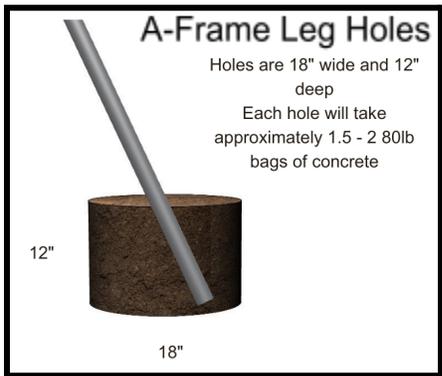
**\*Before digging, please obey local laws by notifying your local underground utilities marking organization\***

**Ground Space: 29' x 29'**

**Residential Minimum Play Space 36' x 35'**



**Platform Leg Holes**  
 Holes are 18" wide and 12" deep.  
 Each hole will take approximately  
 one 80lb bag of concrete.

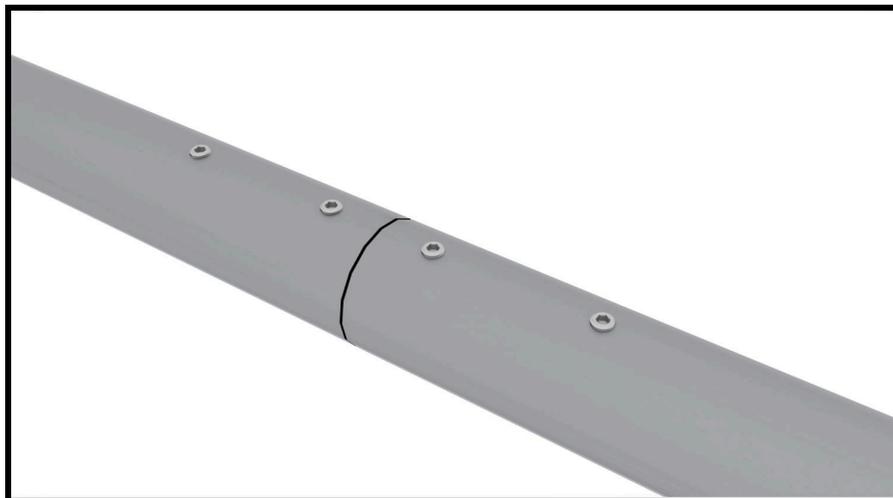
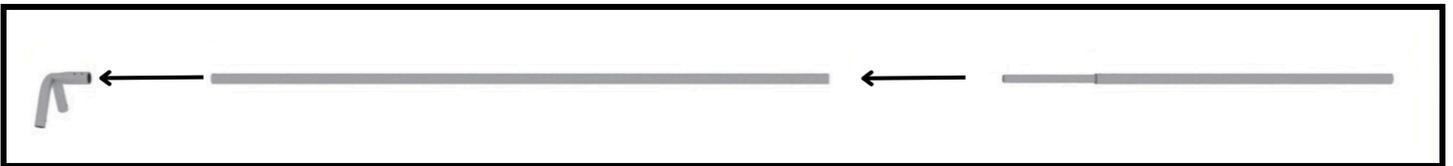


**Vertical Ladder Hole**  
 28"L x 20"W x 24"D  
 Cement: Approximately 6-7 80lb bags

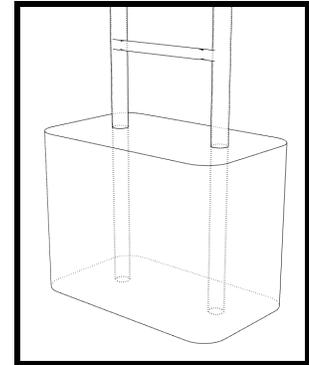
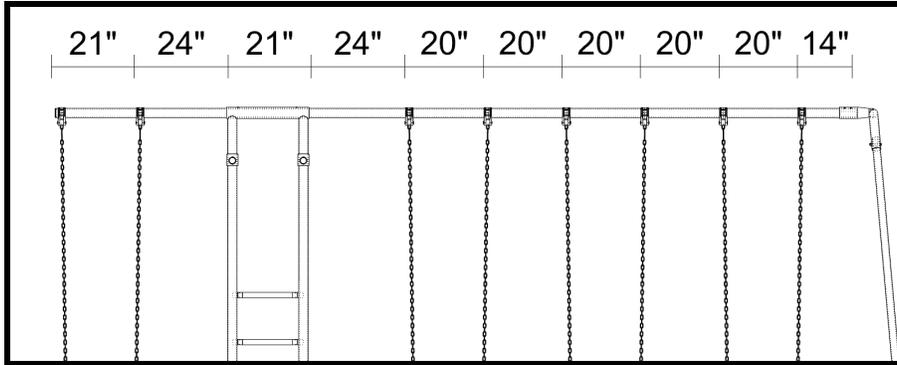
# Assembly

## 1. Top Rail Assembly

- a. Slide the undrilled end of the 11'6" top rail as far as it will go into the sleeve of the triple end.
- b. Insert and tighten 4 of the  $\frac{3}{8}$ " x  $\frac{3}{8}$ " set screws into the triple end sleeve to secure the top rail in place.
- c. Slide the insert of the 5'6" top rail into the other end of the 11'6" top rail and secure with 2 more  $\frac{3}{8}$ " x  $\frac{3}{8}$ " set screws.
- d. Insert plastic plug into the open end of the top rail.



2. Lay the top rail assembly on the ground in the area where you want to install the swing set. Using the diagram below, determine where the vertical ladder will go and mark the ground for the ladder hole. Move the top rail assembly and dig the hole.

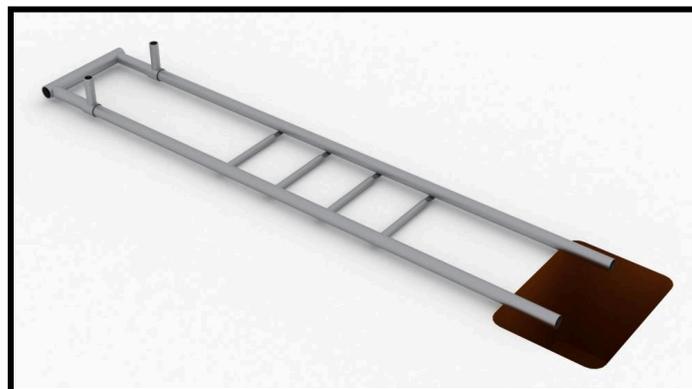


Vertical Ladder Holes

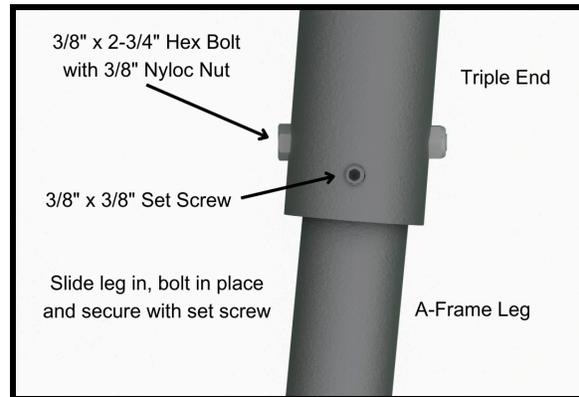
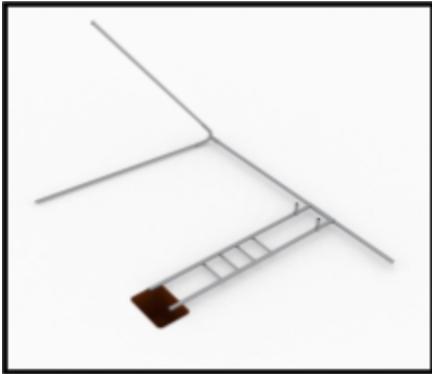
28"L x 20"W x 24"D

Cement: Approximately 6-7 80lb bags

3. Lay one of the upright ladders (the one with no holes drilled above the rungs) on the ground with the bottom of the ladder laying just over the hole you just dug. Note: be sure to situate the ladder so that when the unit is finally standing, the rungs will be facing opposite of where the monkey bars will go.
- a. Make a mark 15" from the top of the 8' Upright Ladder onto each Ladder Rail. Move the Adjustable Sleeves to these marks and position them to receive the Horizontal Ladder. This is accomplished by turning them to point at a 90 degree angle toward what will become the inside of the structure. Secure set screws.



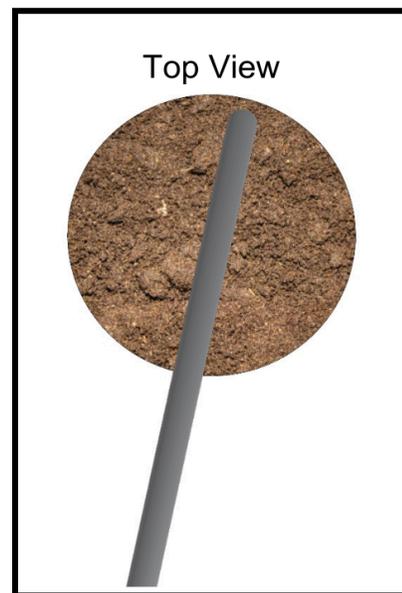
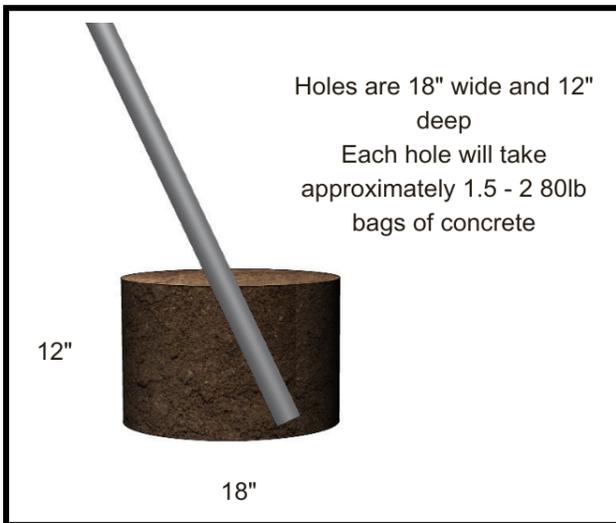
4. Turn the top rail on its side and slide the top rail into the sleeve at the top of the ladder and position it according to the diagram above. Loosely install two  $\frac{3}{8}$ " x  $\frac{3}{8}$ " set screws into the top of the ladder sleeve. Insert the two A-frame legs (1  $\frac{7}{8}$ " x 10' pipe) into the sleeves of the triple end and secure using two  $\frac{3}{8}$ " x 2  $\frac{3}{4}$ " hex bolts and two  $\frac{3}{8}$ " nyloc nuts. Insert and tighten set screws into the triple ends with the allen wrench provided. Tighten as hard as you can, but do not use power tools for this!



5. Using two strong adults, stand the swing frame up, allowing the ladder to fall into the hole previously dug. Please note that the set will not be level at this point. Check to make sure that the top rail is still in its proper place inside the ladder top sleeve. Adjust as necessary by holding onto the ladder securely and push or pull the A-frame section, causing the top rail to slide inside the top sleeve. When you are satisfied that the top rail is in the proper position, securely tighten the set screws in the top sleeve of the ladder.

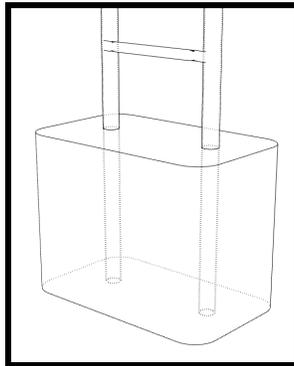


6. With the ladder still standing in its hole, situate the A-frame end to the desired position in the play area. Mark the ground where the A-frame leg holes will be. Move the legs out of the way and dig the holes. Place the legs into the holes.



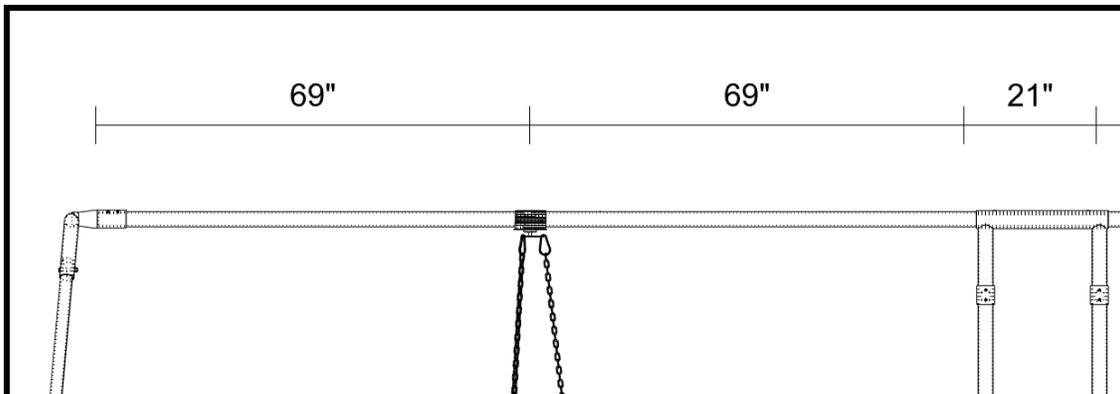
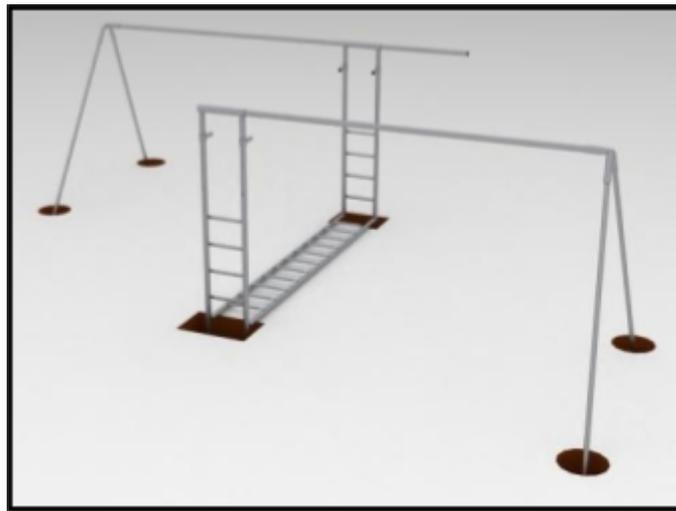
7. Measure from about the middle of the top rail to the ground. This measurement should be 8'. Determine the level of the swing set by using a level along the length of the top rail. Remove from, or add soil to the holes as necessary to put the unit to the correct height and to make it level.

8. Lay the 12'6" Horizontal Ladder up next to the standing ladder, and using it as a guide, mark and dig the hole for the opposite vertical ladder.

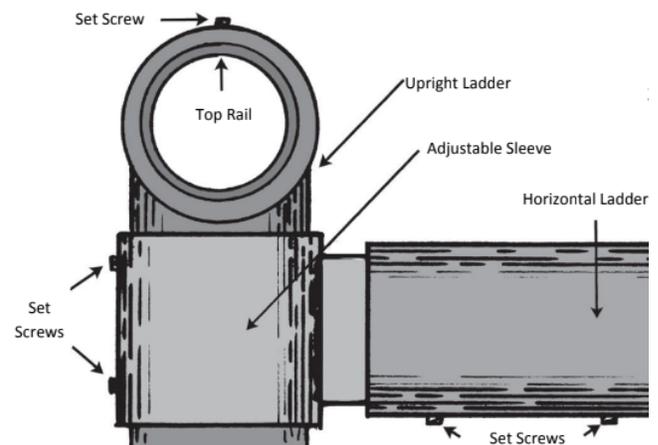
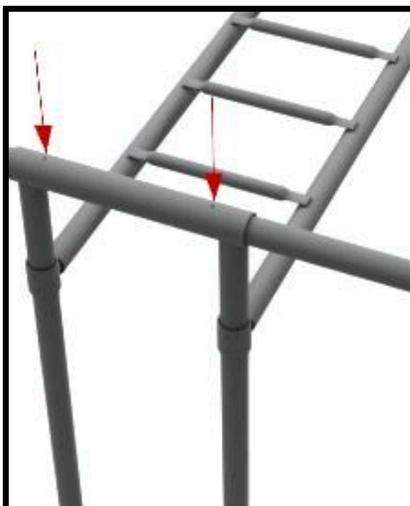
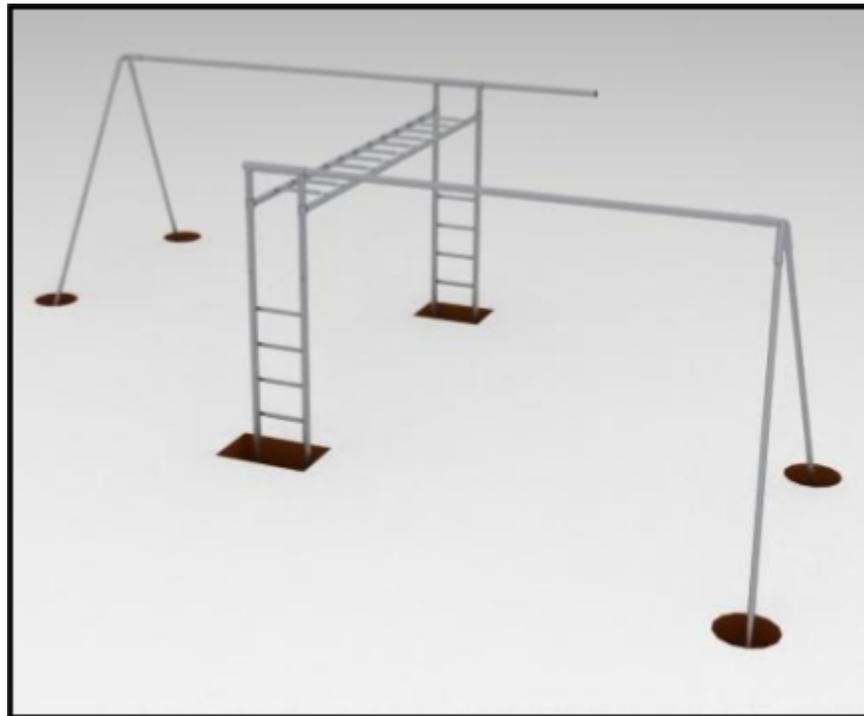


Vertical Ladder Holes  
28"L x 20"W x 24"D  
Cement: Approximately 6-7 80lb bags

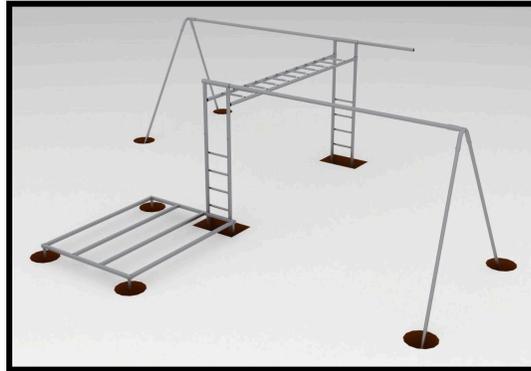
9. Repeat Steps 3 thru 7 for the opposite vertical ladder, the only difference being that the ladder will be at the end of the top rail.



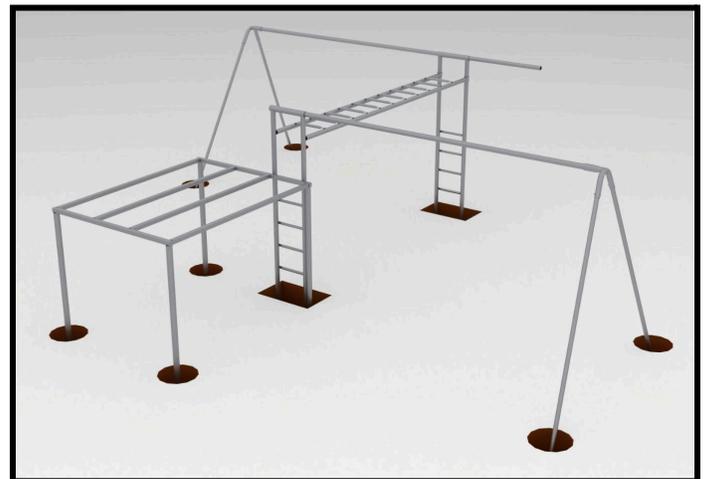
10. Using two strong adults, lift the horizontal ladder and sleeve it onto the adjustable sleeves of the vertical upright ladder. Have one of the adults support the horizontal ladder in place while the other places the second vertical ladder (the one with holes drilled above the rungs) into its hole and sleeve the horizontal ladder onto its adjustable sleeves as well. Tighten the set screws of all the adjustable sleeves, and secure the horizontal ladder to the adjustable sleeves by tightening two  $\frac{3}{8}$ " x  $\frac{3}{8}$ " set screws at each corner of the horizontal ladder.



1. Place the 6' x 8' joist system on the ground next to the upright ladder with holes drilled into it. Please note that there are two holes drilled through the side of the joist system on one side. This will be where the vertical ladder goes. Using the joist system as a guide, mark the ground at each of the 4 corners to dig the platform leg holes. Typically, we combine the ladder hole and the closest platform leg hole since they are so close together. Once marked, dig the holes.



2. Sleeve the 2 3/8" x 6' Platform Leg Posts onto the joist system at each corner and secure with a 3/8" x 3/8" set screw. We recommend aligning the leg so that the set screw is facing towards the center of the platform. Place the platform into the holes and line up the holes that are drilled in both the platform and the vertical ladder.



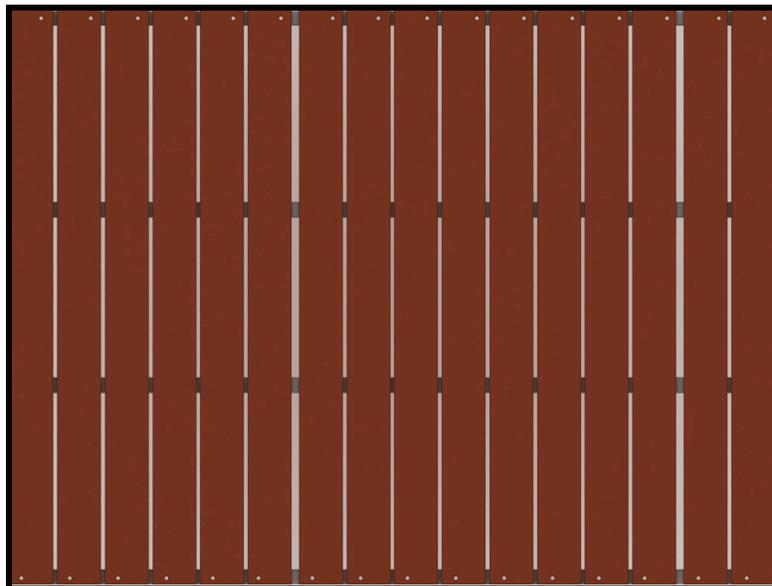
3. Secure the ladder to the platform using two 2  $\frac{3}{8}$ " x 5" carriage bolts, two  $\frac{3}{8}$ " flat washers, two  $\frac{3}{8}$ " lock washers and two  $\frac{3}{8}$ " hex nuts. At this point, make sure that everything is level and make any necessary adjustments.



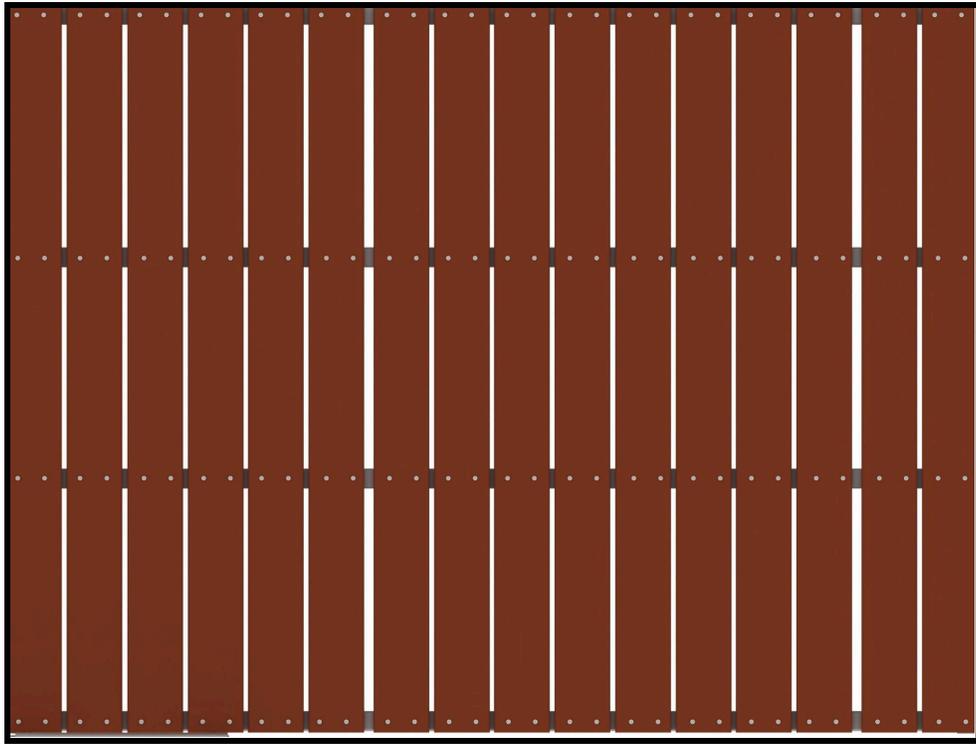
4. At this point, if it's possible, we recommend cementing in the structure and allowing the concrete to cure before continuing on to the rest of the install. Although it's not required, it will make the rest of the installation easier.
5. Take the sixteen lengths of plastic lumber and lay them across the joist system perpendicular to the middle joists. Ensure that there is equal spacing between the boards. (There will be approximately  $\frac{3}{4}$ " of space between each board; this allows for drainage during inclement weather).



6. Using a high-quality  $\frac{13}{64}$ " drill bit designed for metal drilling (and we highly recommend having multiple backups in case they get dull), drill a pilot hole through the plastic lumber board and through the top wall of the joist system. Secure with the  $\frac{1}{4}$ " x  $2 \frac{1}{2}$ " pan head phillips machine screws. Follow the pattern shown in the image below:



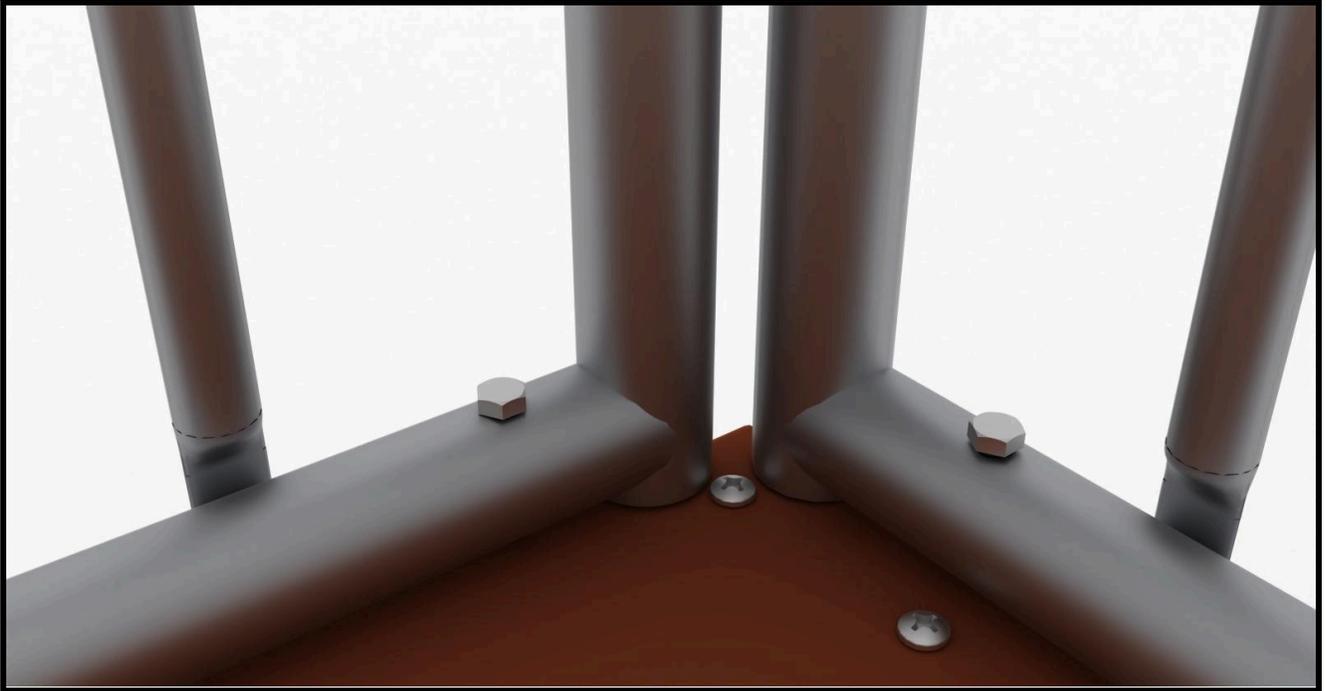
7. Once the boards are secured in place, continue drilling more pilot holes and securing them with the phillips machine screws until each board is secured with two screws at each of the four joists (See image below):



8. Place the four barriers on the platform and arrange them with the rungs facing outwards. Loosely secure them together using two pairs of panel clamps at each corner (one near the tops of the barriers, one near the bottom). The panel clamps are secured using  $\frac{3}{8}$ " x 2" carriage bolts and  $\frac{3}{8}$ " hex nuts. Adjust the position of the barriers in a way that all the barriers are lined up along the edges of the platform. Tighten the panel clamps.



9. There are two predrilled holes in the bottom rails of each barrier. Secure the barriers to the platform using the  $\frac{1}{4}$ " x  $2\frac{3}{4}$ " lag screws. Be careful not to overtighten.



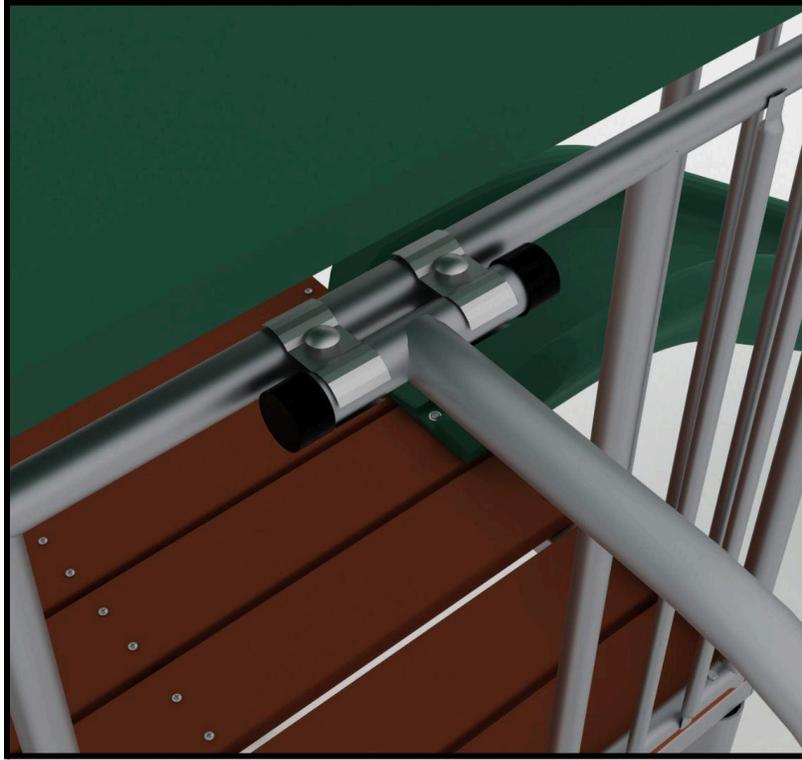
10. To assemble the canopy, insert the “U” shaped ridge pole into the stubs on the two barriers with openings. Loosen the set screws of the canopy rail sockets at each corner of the platform. Slide the two canopy rails up and off of the barriers. Slide the canopy rails through the pockets of the canopy. Drape the canopy over the ridge pole and reattach the rails and canopy sockets, keeping the canopy as tight as possible. Note: to extend the life of the canopy, we recommend taking it down each winter.



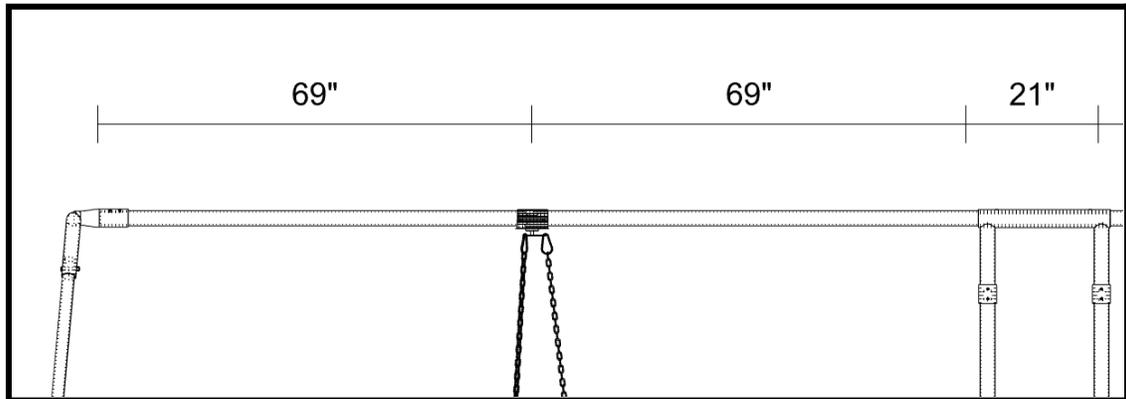
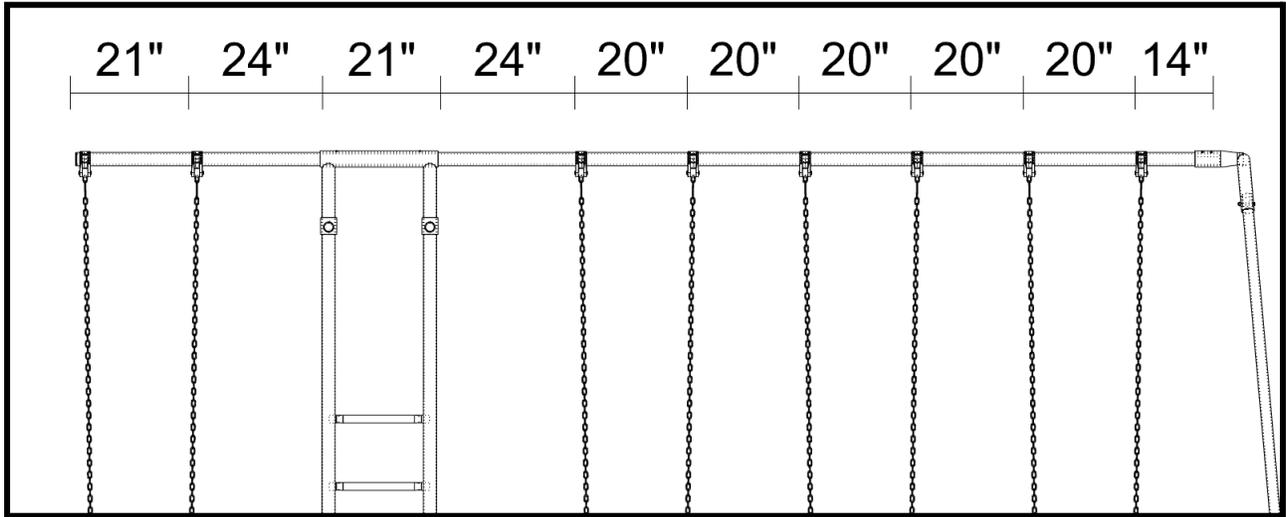
11. Attach the slide foot to the slide using the 3 hex bolts and washers. Instructions are included in the bag with the bolts. Be careful not to overtighten.
12. Attach the slide to the platform using two #14 x 1 3/4" Truss Screws and two 5/16" flat washers.

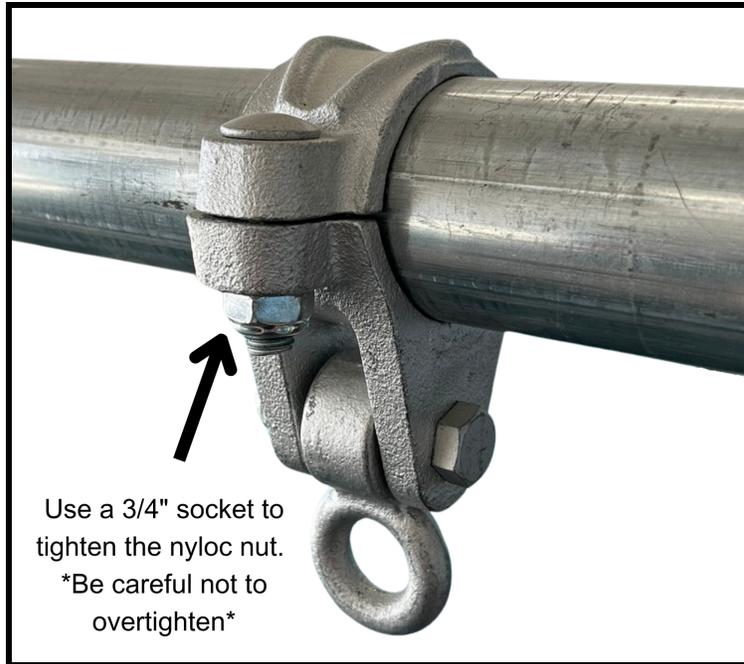


13. To attach the triangle climber, hold the triangle climber up to the platform and mark the ground where the hole needs to be. Move the climber, and dig a hole that is 18" in diameter and 12" deep. Set the triangle climber in the hole, and at the top of the pole, attach the triangle climber to the barrier with 2 pairs of panel clamps (see image). Ensure the triangle climber is level and straight, then tighten the panel clamps to secure in place.



14. Secure swing hangers to the top rail at the following locations:



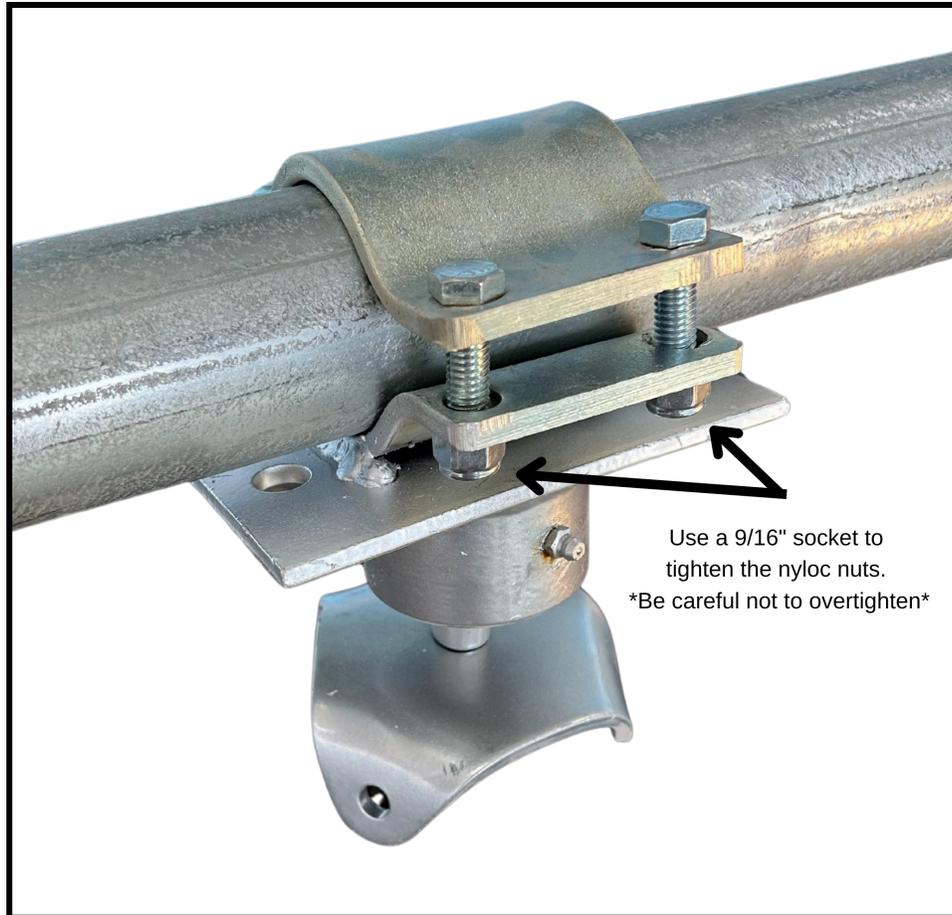


## Swing Hanger Assembly

1. Loosen and remove the two nyloc jam nuts.
2. Reassemble the swing hanger onto the top rail. Tighten securely so that the hanger is firmly attached in place and cannot slide or swivel along the top rail.

**IMPORTANT:** We recommend you check the pendulum in the swing hangers at least every **6 months** for wear.

# Tire Swivel Assembly



1. Loosen and remove the four nyloc nuts.
2. Reassemble the tire swivel onto the top rail. Tighten securely so that the hanger is firmly attached in place and cannot slide or rotate along the top rail.

**IMPORTANT:** We recommend you check the tire swivel at least every **6 months** for wear, and regrease at least annually.

# Cementing In the Swing Set

When you are satisfied that the structure is level, mix and pour the concrete according to the package directions. You will use approximately 5 to 6 80lb. bags in each ladder hole, 1 80lb bag in each platform leg hole, 1 ½ 80lb bags in each a-frame leg hole, and 1 80lb bag in the fire pole hole.

Concrete will cure faster in warm conditions and slower in cold conditions. The package directions on the concrete you buy will indicate approximate curing times. If you are in doubt, it is better to wait longer allowing the concrete more time to cure. We recommend 3-5 days before use.

The amount of concrete to be used in each hole may vary. For example: If you are installing your play structure into a grassy area, you may want to leave the concrete about three to four inches below the top of the hole. This will allow you to replace the sod and have enough soil depth for the grass to continue growing. As a result of this, you will use a lesser amount of concrete than someone who chooses to fill the concrete to the top of the hole. The concrete should only be filled to the top of the hole if you are planning to install 6 – 12 inches of soft fall ground cover. The concrete footings should never be exposed as this presents a potential risk of injury to those who use this play equipment.

**Double Check and Secure:** Before using your swing set, double check and secure any loose set screws or nuts and bolts. **Allow all of the concrete to cure completely before using your playground. (3-5 days).**

After concrete has cured, assemble and attach swing chains and seats.

**IMPORTANT:** If you do not cement in your swing set, any and all warranties will be immediately void.

# Read Before Use

Congratulations! You have just purchased one of the finest pieces of playground equipment available. Your family will enjoy many hours of fun with this fine equipment. Playground equipment can be most enjoyable, but there are some dangers if not used properly. You should be aware of the following:

Equipment should be installed in a level area, free from obstructions, with enough space to allow for adequate clearance in all directions when equipment is in maximum use.

Keep objects away from equipment that could interfere with persons using it or that could be hazardous.

Misuse or abuse of this playground equipment is dangerous and can cause serious injury.

This equipment should be inspected before each use and any worn, defective or missing parts should be replaced.

Children should play on equipment only with adult supervision and should be duly warned of the potential hazards in this type of equipment when used improperly. Children should be instructed as to proper caution to take in its use.

Equipment should NOT be used when it is wet or icy.

Equipment should only be used in a well-lit area.

Do NOT use equipment when tired, under stress or emotionally upset.

Do NOT overcrowd.

Do NOT use equipment when under the influence of alcohol or drugs.

Do NOT attempt somersaults or gymnastic stunts on or using this equipment.

Know your own limitations and exercise caution at all times.

Do not jump off of equipment when dismounting. It is a dangerous practice to jump on or off equipment.

Do not attempt to use equipment for something other than the use for which it was designed and intended, or in a manner other than that for which it was designed and intended.

**While every attempt is made by Rocky Mountain Swing Sets to ensure the highest degree of safety in all of our equipment, we cannot guarantee freedom from injury. The user assumes all risk of injury due to use. All merchandise is sold on this condition, which no representative of the company can waive or change.**

# Maintenance of Your Playground

We hope that you and your family will enjoy many hours of great family fun while using your Rocky Mountain Swing Set product. We appreciate your business. Our goal is to provide safe, durable and fun products using the best materials available. Your product should be mostly maintenance free. However, you should consider the following suggestions with regard to the upkeep of your new swing set.

- 1. Chains and Connectors:** The chains are coated with the highest quality bright zinc coating and the highest quality polymer coatings available. However, over time the zinc coating may become discolored or eventually have surface rust appear. The polymer coating may also become discolored with time and may eventually crack. This depends mostly upon environmental conditions and normally will not affect the durability and safety of the product. However, these items should be inspected regularly for excessive wear and should be replaced as necessary.
- 2. Swing Hangers:** These items are coated with a high quality galvanizing. However, swing hangers may become discolored or may eventually rust. Should this happen, a touch-up using a cold galvanizing compound followed by a coat of silver aluminum spray paint will make them look new again. These items can be purchased in aerosol cans (“spray paint”) at most hardware stores and at Rocky Mountain Swing Sets. The brass bushings inside of the swing hanger are impregnated with lubricant and will not generally require any further lubrication. However, these should be periodically inspected for wear and replaced as necessary. Note: Twisting the chains while swinging will put extra wear on the swing hanger parts. If your children enjoy this practice, please inspect the swing hangers more frequently.
- 3. Welds:** The heat from the welding process will damage the galvanizing that is on the pipe when it arrives to us from the manufacturer. This damage to the galvanizing is restricted to the actual weld. When your equipment is built, Rocky Mountain Swing Sets will repair this damage using a cold galvanizing compound spray along with a top coat of silver aluminum. This is a time tested and durable process. However, when you are inspecting your playground equipment, if you notice that some surface rust has appeared on the welds, simply apply a fresh coat of the cold galvanizing compound and the silver aluminum top coat to keep your structure looking new. (These spray products can be purchased in aerosol cans (“spray paint”) at most hardware stores and at Rocky Mountain Swing Sets)

4. **Swing Seats:** These should be inspected at least twice annually and should be replaced as necessary.
5. **Plastic Lumber Platforms:** If you have purchased a structure which includes a platform, the plastic lumber does not need to be finished or stained. It is 100% maintenance free. However, you may need to occasionally hose it down to remove dirt and other debris that may collect after many hours of use.
6. **Vinyl Canopies:** If you have purchased a structure which includes a vinyl canopy, this product should be inspected occasionally for wear and will need to be replaced as necessary. Depending on your environmental conditions, the normal life expectancy of the vinyl canopy is 3-5 years. To help extend the lifespan of the canopy, take it down during the winter.
7. **Slides:** Slides should never be lifted at the bottom. Lifting the slide at the bottom will almost always cause the slide to crack at the top where it has been attached to the platform or bracket. Cracks and wear such as is caused by this practice are easily identifiable and will not be covered under the product warranty. Slides should be inspected at least annually to ensure that the sliding surface is in good condition. Also inspect the side rails to be sure that the plastic has not been cut or gouged in any manner which would present the risk of injury while sliding.
8. **Fasteners:** All fasteners should be periodically inspected to make certain that they are tight and secure. Re-secure as necessary.

**\*For safety, please inspect all moving parts on a regular basis. (Every 6 months) Especially pay attention to wear within the swing hanger.**

# To Help Prevent Injuries from Falls & Other Hazards

1. Never attach, or allow children to attach the following items to your swing set: Ropes, jump ropes, clotheslines, pet leashes or any similar type of item to your swing set. Any item such as these may present a strangulation hazard.
2. Periodically inspect all nuts, bolts, set screws, clevis, and carabineer or "S" hooks. Make certain that these are functionally safe and secure. If you have any doubt as to the safety and security of any connector or fastener, replace it.
  - 2a. You should periodically check the brass bushings in the swing hangers. Look for excessive wear in the bushing and replace as necessary.
  - 2b. If your playground has a tire swing: The tire swing knuckle should be lubricated twice annually to prevent wear.
3. Never allow children to wear bicycle helmets when using playground equipment.
4. Remove drawstrings from hoodies and jackets. Remove attached mittens and gloves. These can become entangled with the equipment and present the risk of strangulation or other hazards.
5. Playground surfaces can become hot in the sun. Children should be required to wear shoes and socks when using this or any playground equipment.
6. Check for and remove sharp points or edges in the playground equipment.
7. Remove tripping hazards from the playground area. Items such as exposed concrete footings, tree stumps, rocks or any item that may be present in your space that a child could trip over while playing should be removed.
8. Regularly check the play equipment and the surfacing surrounding it to be certain that both are in good condition.
9. Parental Supervision is recommended. The best ingredient for a safe playground is good parental supervision while the kids are using the equipment.
10. Remember to play safely, take turns, share with each other and have fun!

# Residential Products Limited Lifetime Warranty

Rocky Mountain Swing Sets works to build heavy duty products that will stand up to the heavy use of active children. You can trust Rocky Mountain Swing Sets because of the way we design and build our products. We make products that are simple to own, and easy to maintain. This adds up to the best value on playground products that you can count on, and that kids will play on time after time.

Rocky Mountain Swing Sets warrants to the original purchaser/property owner that its residential grade products are free from defects in materials and workmanship. This warranty is non-transferrable and will be honored only after proper registration.

This warranty is not extended to cosmetic items such as scratches, dents, fading, discoloring, paint wear, rust, weathering, or decorations. The warranty as stated is valid only if equipment is properly installed as detailed in the installation instructions provided and is used in a normal and expected manner. Excessive and or use above that which is normally expected may void the warranty. All parts are subject to normal wear for the purpose of which they were designed.

When attached to the structure, plastic slides should not be lifted up from the bottom for any reason. Cracks at the top of the slide that result from lifting the bottom of the slide will not be covered under the terms of this warranty.

This warranty is void should the equipment be subject to vandalism, misuse, neglect, abuse, improper installation, tampering, or accident. This equipment is not to be altered, or modified, by anyone other than Rocky Mountain Swing Sets or its authorized agent. This warranty does not cover damage resulting from flood, fire, catastrophe or other acts of nature.

To the extent permitted by law, Rocky Mountain Swing Sets shall not be liable for any direct, indirect, special, incidental, or consequential damages.

Should it be found that your product has parts that are defective within the warranty period, contact Rocky Mountain Swing Sets. *Unauthorized returns will be refused and returned to the sender.* The defective part(s) must be photographed from a minimum of three different angles that clearly show the problem, and the installation of the defective part by itself and in relation to the rest of the structure. After speaking with a representative at Rocky Mountain Swing Sets: Return parts, freight prepaid, to the Rocky Mountain Swing Sets' plant with proof of purchase for repair or replacement. Rocky Mountain Swing Sets will evaluate the part(s) and the photographs and decide if the part(s) in question should be repaired or replaced. This warranty does not cover costs related to removal, transportation and/or labor.

This equipment is rated as commercial grade for residential use and is intended to be used in a private residential environment. This equipment may not meet all of the safety guidelines as described by the CPSC as it relates to public use/commercial playground equipment. For more information on public or commercial playgrounds, please visit [www.cpsc.gov](http://www.cpsc.gov).

Rocky Mountain Swing Sets sales representatives or its agents are not authorized to modify or substitute claims which are not part of this exclusive written warranty. This warranty is void if the product is in any way modified from its original state, or if it is used for purposes other than the purpose for which it was intended.

**\*For children with special needs who may spend many hours of the day swinging, we recommend our heaviest swing set, the Arch Swing Model. This is the product for you!**