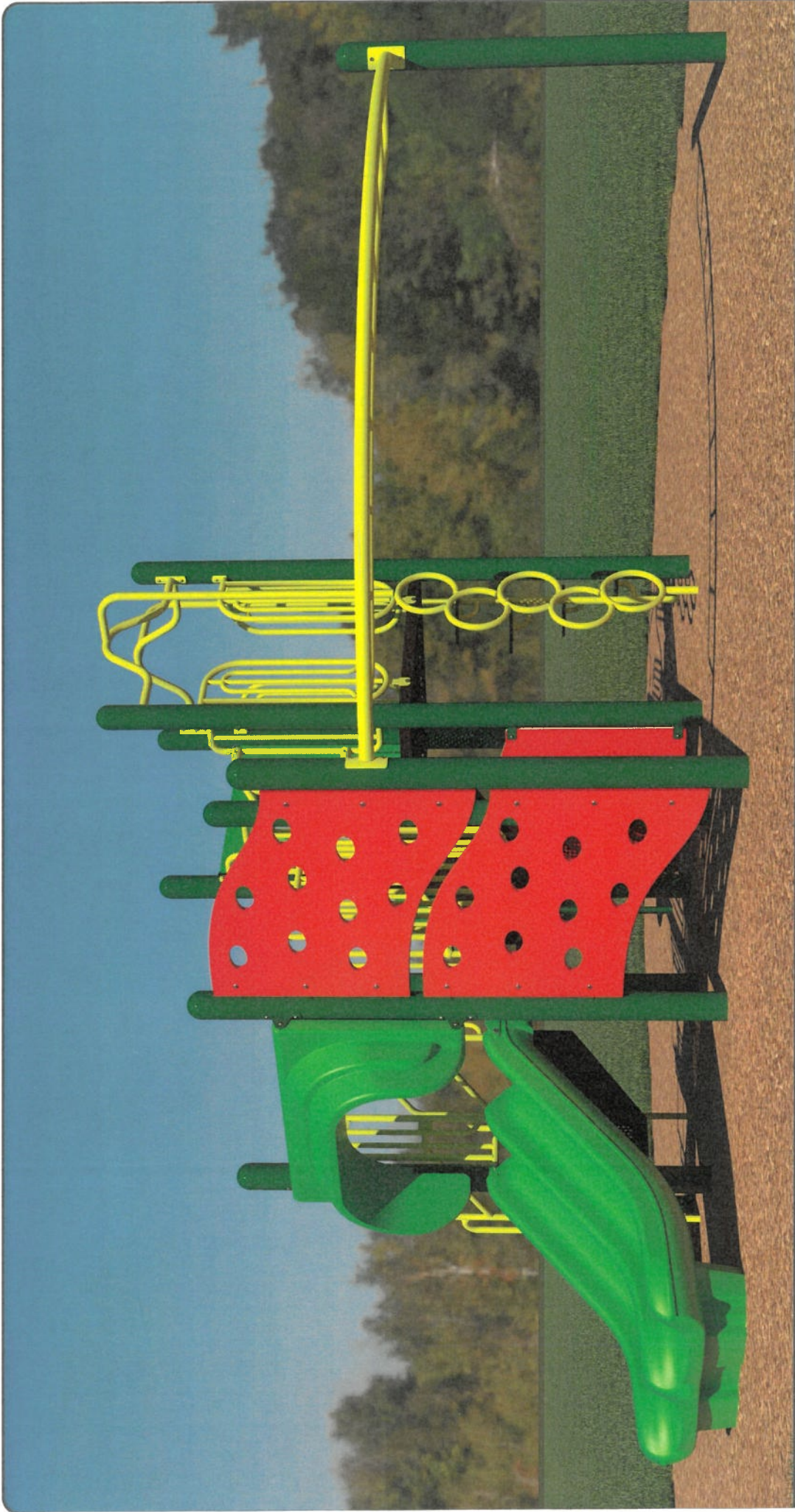




AMENDMENT # 1

**RFQ Playground Equipment Installation and Assembly
Deadline Submission May 8, 2023 2:00 PM**

**Installation Instructions Manual
Unit # B20115**



Brought to you by your local representative

EMCO CORPORATION

PLACENTIA

Colors:

- Posts: Green
- Accents: Cosmo
- Roto-Plastic: Lime
- HDPE - Plastic: Red / White

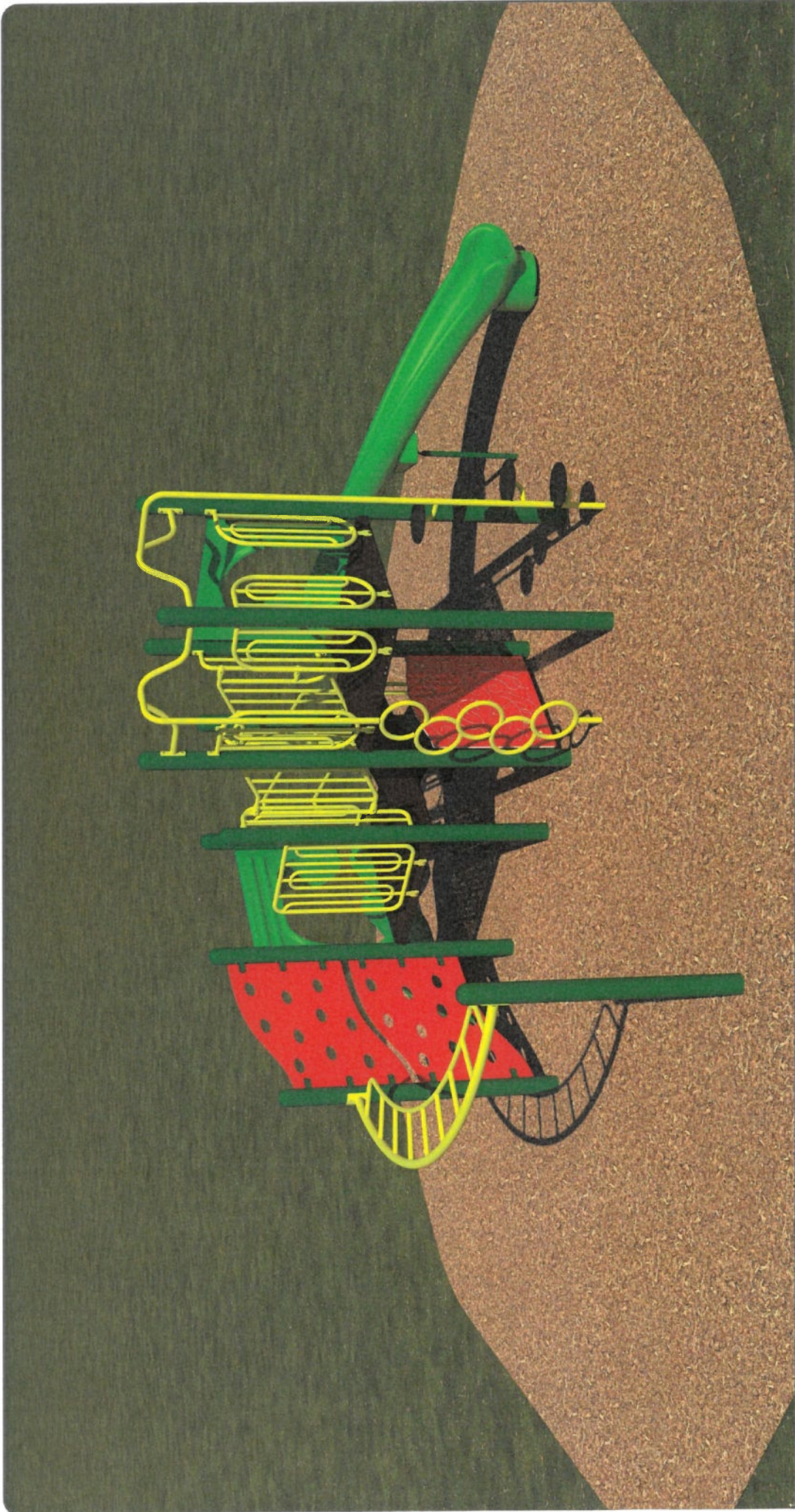


Henderson
Providing Playground Fun

Model No. B504299R0



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© 2021 Henderson Recreation Equipment Limited. All rights reserved. 597-581-8425 | Fax: 519-225-1103 | www.hendersonrecreation.com | 115 Glenborough Drive East, Aurora, Ontario, Canada M1B 2Y9 | This company is not to be responsible for any injury or damage due to the use of any equipment without proper instruction.

Play Structure Site Preparation Information Sheet

Please take the time to review this very **IMPORTANT** information concerning the installation of your new Henderson Recreation Equipment Play Structure. To assist you with preparations for the installation of your new play structure, we have listed a few important details for you to consider that will help to ensure there are no unnecessary delays and additional costs for the installation of your equipment. **If you have any questions, require additional information or if there are any changes to the original site plan, please contact your sales representative or the installation coordinator at 1-800-265-5462.**

Utility Locates:

If installation of your equipment will require digging or excavation, It is important that the underground locations of utilities such as electric, gas, telephone, cable, water or any other private or underground obstructions are known prior to excavation work commencing. Failure to complete this necessary step may result in damage to the underground services or cause a potentially dangerous situation.

Contact Ontario One Call at 1-800-400-2255 to have this service performed by the local utilities.

The utility representative should leave a document with you to indicate there is no conflict with the area designated for the new play structure.

Access to Site:

The installation crew must have sufficient access to the site to enable large trucks and construction machinery close to the play structure location in order to properly install your new play structure. Obstructions such as fences, narrow gates, curbs, drainage ditches etc will impede their work. Please discuss any circumstances that may prohibit access to the site with your sales representative or the installation coordinator as soon as possible.

Additionally, if there is concern over possible damage to lawns or landscaping, this should be discussed with your sales representative or the installation coordinator prior to the installation day.

Please advise us of any working hour restrictions that may apply during this installation.

See Reverse Side for Details Concerning Site Excavation

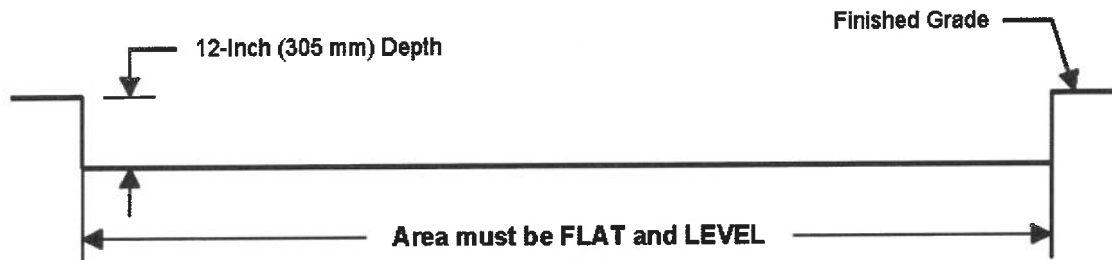
Play Structure Site Excavation Details

All play structures must be installed on a flat and level surface to ensure that the end result is compliant with the CSA Standard. Depending on the physical site, the type of containment border and protective surfacing material chosen, there are several methods of site preparation that will produce acceptable results. Pit Depths or Border Heights will vary depending on surfacing material.

Some examples of the installation types are shown below in sectional views. In all cases, the grade on which the protective surfacing will be installed must be **FLAT** and **LEVEL**. The perimeter dimensions of the protective surface zone required for your equipment are indicated on the drawings that were provided to you.

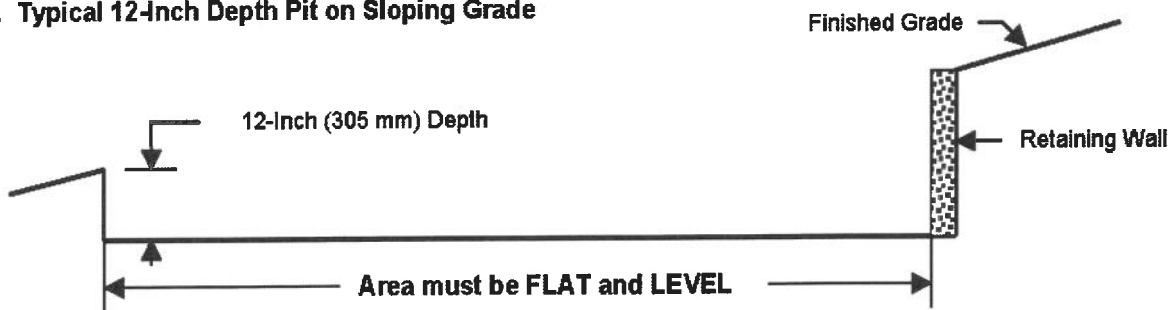
Filter cloth, drainage tiles, borders or protective surfacing material should not be installed prior to the installation of the play structure as any of these can be easily damaged due to the construction activity.

1. Typical 12-Inch Depth Pit on Relatively Level Grade

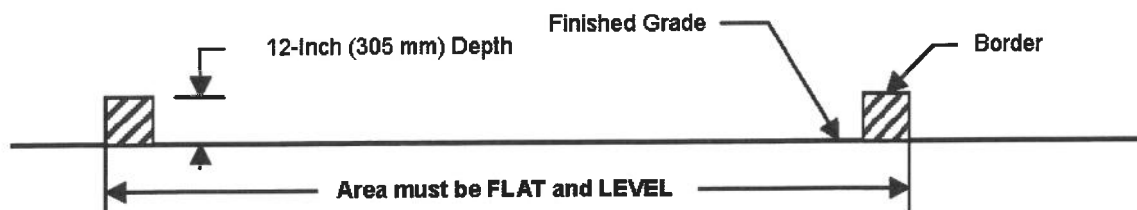


Typically used for loose fill protective surface materials such as sand, gravel, wood chips and engineered wood fibers. Best for containing loose fill materials and maintaining a rigid border.

2. Typical 12-Inch Depth Pit on Sloping Grade



3. Installed on Finished Grade – Must be FLAT and LEVEL



Easiest and most cost effective if grade conditions allow. However it may be difficult to maintain the border in place when using loose fill materials do to the outward pressure of the loose fill material.

WARRANTY

Lifetime

limited warranty on steel support posts against structural failure due to deterioration caused by defects in materials or manufacturing.*

Lifetime

limited warranty on Bolt-N-Go direct-bolt fastening systems against structural failure due to corrosion or deterioration caused by defects in materials or manufacturing.*

20 Year

limited warranty on aluminum post caps and Orbis aluminum clamps against structural failure caused by defects in material or workmanship.*

15 Year

limited warranty on steel rails, loops and rungs against structural failure due to corrosion or deterioration caused by defects in materials or manufacturing.*

10 Year

limited warranty on polyethylene components, sheet plastic, and decks against structural failure due to corrosion or deterioration caused by defects in materials or manufacturing.

10 Year

limited warranty on all site amenities, including all benches, tables, litter receptacles and bike racks, against structural failure due to corrosion or deterioration caused by defects in materials and workmanship.*

5 Year

limited warranty on Berliner Rope Play steel-core ropes and rubber components against structural failure caused by defects in material or workmanship.*

One Year* General Warranty

Henderson Recreation warrants that all products not listed above will be free from defects in materials or manufacturing for one year.

General Warranty Terms

All warranty periods start at the invoice date. If any breach of this warranty occurs within the applicable warranty period, upon proper notification in writing of the defect, Henderson Recreation will, at its option, either repair or replace the defective product or part. Henderson Recreation will provide a repaired or replacement product or part under the terms of this warranty free of charge, but will not be responsible for any freight costs associated with the warranty claim or any labour or other costs associated with dismantling the defective product or part or installing the replacement product or part. A replacement product or part provided pursuant to this warranty will be guaranteed only for the balance of the warranty period applicable to the original product or part.

Warranty Claims

To be valid, all warranty claims must be submitted in writing promptly following discovery of the defect and within the specified warranty period. All warranty claims must be accompanied by a copy of the original invoice (or Henderson Recreation invoice number) and photographs clearly identifying the defect in question.

* Items Not Covered By the Warranty

The following are not covered by the warranty: (i) products that are not installed in conformity with the layout plan and/or installation instructions provided by Henderson Recreation; (ii) products that have not been regularly inspected, maintained and serviced and in accordance with Henderson Recreation's instructions; (iii) products that have been subjected to misuse, abuse, negligence or accident; (iv) products that have been subjected to modification, alteration, repair or addition or substitution of parts by persons other than Henderson Recreation or Henderson Recreation's designers, in a manner which, in the sole judgment of Henderson Recreation, affects the operation or condition of the products; (v) products that have been moved after the initial installation; (vi) damage resulting from vandalism or abnormal use; (vii) damage resulting from Acts of God (such as lightning, tornadoes, etc) or environmental factors (such as salt water, chemical sprays, etc.); (viii) damage due to normal wear and tear; and (ix) cosmetic issues, including but not limited to scratches, dents, marring, natural fading or fading of colours, discoloration and the weathering of wood (including but not limited to raised grain, splitting, checking, twisting, warping, shrinkage, swelling or any other physical property

of the wood). For the purpose of this paragraph, "weathering" does not include fungal decay or rot of any type, while "fungal decay" and "rot" mean attack by wood-destroying fungi that disintegrate the wood cell walls, but exclude surface mold and mildew fungi associated with the weathering of wood.

Liability Exclusions

THIS WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ALL OTHER REPRESENTATIONS AND WARRANTIES OF ANY KIND, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING BUT NOT LIMITED TO ANY WARRANTY OF CONDITION, DESCRIPTION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. NO REPRESENTATION, WHETHER ORAL OR WRITTEN, OF ANY HENDERSON RECREATION REPRESENTATIVE MAY ALTER OR AMEND OR BE SUBSTITUTED FOR THIS WARRANTY. TO THE EXTENT PERMITTED BY LAW, IN NO EVENT WILL HENDERSON RECREATION BE LIABLE IN CONNECTION WITH ANY PRODUCT FOR (A) ANY INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, WHETHER BASED ON TORT, CONTRACT OR OTHER LEGAL THEORY AND WHETHER OR NOT ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, OR (B) ANY DAMAGES WHATSOEVER IN EXCESS OF AN AMOUNT EQUAL TO THE PURCHASE PRICE FOR SUCH PRODUCT.

Product Replacement

Henderson Recreation has a commitment to continuous product development and improvement and therefore reserves the right to make approved substitutions in design or specifications.

Loss or Damage In Transit

Henderson Recreation cannot be held responsible for the loss or damage of products by common carriers. Please check the bill of lading carefully to ensure your product is in good order prior to signing it. After the product departs our plant, we are no longer responsible for any loss, damage, or shortage.

Maintenance

The demand for safety requires regular inspection of playground structures for signs of wear and tear. All necessary repairs should be completed promptly by a qualified repair person. For more information on the regulations concerning playground equipment, installation, maintenance, and protective surfacing, please refer to your local and national safety standards.



Henderson®
Providing Playground Fun

P.O. Box 68, 11 Gilbertson Drive
51700ce, ON Canada N3Y 4K8
1.800.265.5462 | www.hendersonplay.ca

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CSA-Z614 COMPLIANCE CERTIFICATE

ANNEX H COMPLIANCE

Organization: **EMCO - Town of Placentia**

Project:

Model: **B504299R0**

Compliance with Play Equipment Standards

Henderson Recreation Equipment Limited warrants that its products are designed and manufactured to meet or exceed the requirements of the most current edition of the Canadian National Standard CAN/CSA-Z614, "Children's Playspaces and Equipment" at the time of installation or shipment of the product.

For a period of 12 months from the date of installation or shipment, should a non-compliance to the Standard be identified that is caused by improper design, manufacturing or original installation procedure, Henderson Recreation Equipment Limited will make the necessary corrections to the equipment at its cost.

This compliance certificate of CSA Standards compliance does not apply when the cause of the non-compliance is the result of the following:

- Oversights by owner/operator or its designated inspectors that are not identified within the 12 month warranty period
- Oversights by third party inspectors that are not identified within the 12 month warranty period
- Failure of owner/operator to report any non-compliance to Henderson Recreation within the 12 month warranty period
- Vandalism



Henderson
recreation equipment limited

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Regarding Supply and Installation of Playground Equipment Only

This will confirm that the play ground equipment offered by Henderson Recreation is designed to comply with the most current edition of CAN/CSA -Z614, a Guideline on Children's Playspaces and Equipment, A National Standard of Canada. In addition, Henderson Recreation Equipment Limited will undertake to ensure that the installation of the playground equipment proposed complies with the above mentioned standard if the equipment is installed by Henderson Recreation Equipment Limited or its designated agent.

- Abuse
- Damage caused by natural occurrences
- Improper maintenance procedures by owner/operator or designate
- Equipment alterations that are not performed by Henderson Recreation
- Amendments or complete revisions to CAN/CSA-Z614 or ASTM F1487
- Requirements exceeding the scope of CAN/CSA-Z614 or ASTM F1487 that are mandated by various licensing, regulatory or governmental authorities
- Comments and observations offered by play space inspectors related to the design, manufacture and installation of the equipment that exceed or are outside of the scope of CAN/CSA-Z614 or ASTM F1487

Yours truly,

Andrew Henderson, Vice President
Henderson Recreation Equipment Limited

P.O. Box 68, 11 Gilbertson Drive
Simcoe, ON Canada N3Y 4K8
1.800.265.5462 | www.hendersonplay.ca

Rev. 01-17

Use this checklist to help you maintain your new Henderson play equipment in good working condition. Proper maintenance through regular inspection is essential for reducing the possibility of broken equipment, product failure, and injury. Henderson recommends the use of regularly scheduled inspections for Canadian residents or the American Society for Testing and

tions and maintenance (daily, weekly, or monthly) subject to the frequency of use. For further information on playground maintenance please contact the Canadian Standards Association, CAN/CSA Z614, "Children's Playspaces and Equipment" for Canadian residents or the American Society for Testing and

Materials, ASTM F1487, "Standard Consumer Safety Performance Specification for Playground Equipment for Public Use" for United States residents. For area specific standards please refer to your local guidelines. Please make multiple copies of this form and keep one blank master copy.

Type of Inspection: Circle: Daily or Weekly

Daily: visual inspection at beginning of the day

Weekly: complete checklist and file

Required checklist to be completed by playground owner/operator.

Checked by: _____

Date: _____

Type of Inspection	Yes	No	Description of Inspection
Surfacing			The equipment has adequate protective surfacing under and around it and the surfacing materials have not deteriorated. (12" sand, 12"-14" crushed wood)
			Loose-fill surfacing materials have no foreign objects or debris.
			Loose-fill surfacing materials are not compacted and do not have reduced depth in heavy use areas such as under swings or at slide exits.
			Are the rubber wear mats under the high traffic use areas covered by sufficient depth of surfacing material.
General Hazards			There are no sharp points, corners or edges on the equipment.
			There are no missing or damaged protective caps or plugs.
			There are no hazardous protrusions and projections such as bars or bolts.
			There are no potential clothing entanglement hazards, such as open S-hooks or protruding bolts.
			There are no pinch, crush, and shearing points or exposed moving parts.
			There are no trip hazards, such as exposed footings an anchoring devices and rocks, roots, or any other environmental obstacles in the play area.
Deterioration of the Equipment			The equipment has no rust, rot, cracks or splinters, especially where it comes in contact with the ground.
			There are no broken or missing components on the equipment (e.g. handrails, guardrails, protective barriers, steps or rungs on ladders) and there are no damaged fences, benches, or signs on the playground.
			All equipment is securely anchored.
Security of Hardware			There are no loose fastening devices or worn connections, such as S-hooks, chains or connectors.
			Moving components, such as swing hangers, swing rings or nets are not worn.
Drainage			The entire play area has satisfactory drainage, especially in heavy use areas such as under swings and slide areas.
General upkeep of Playgrounds			The entire playground is free from miscellaneous debris or litter such as branches, cans, glass, animal waste, etc.

ACTIONS TAKEN (check all that apply)	Action taken on hazards apparent from this inspection.	Date Completed	Notes
	repair the problem		
	barricade/or closed area		
	notify supervisor		
	other		
	none: no hazardous conditions found		

GENERAL SITE INFORMATION

Inspection Date: _____
 Time: _____
 Location Name: _____
 Inspector: _____

GENERAL EQUIPMENT INFORMATION

Area #: _____
 Part #: _____
 Equipment Present: _____
 Site Location: _____

Inspection Information	Satisfactory	Unsatisfactory	Not applicable
Check equipment stability and check for broken, bent, missing components			
Re-distribute loose-fill surfacing material to areas of "dishing" (i.e. slide exits, overhead components, etc.)			
Check depth of protective surfacing to ensure adequate (check minimum 3 locations)			
Remove broken glass and/or foreign debris on play equipment or concealed in protective surfacing			
Unwrap swings from around top rail (of any swings)			
Check for kinked, twisted, broken or worn swing chain			
Check for drainage problems and/or other issues			
Check all moving components for maintenance concerns (i.e. wear and tear issues, etc.)			
Check condition of site furnishings and site amenities for vandalism			
Check any wood components for cracking, splitting, splintering and gaps greater than 19mm (3/4 inch)			
Check condition of retaining wall/barrier (if present)			
Check condition of access into play area (i.e. pathway, fencing, etc.)			
Check all fittings, bearing hangers, guardrails and components			
Check swing seats for damage and decay			
Check swing chains for kinked, twisted or broken chain			
Check slides for cracks and sharp points			
Check tires for drainage and/or protruding steel components			
Check for graffiti and/or vandalism			
Remove any obvious hazards			

Issues requiring immediate attention:	Additional comments (if any):	Person contacted regarding above noted issue:	Inspectors signature or initials:



PLAYSTEEL
INSTALLATION INSTRUCTIONS
ONGROUND METHOD

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INFORMATION PROVIDED BY HENDERSON:

- Packing slip / customer countsheet
- Installation instructions
- Layout and 3-D drawings

TOOLS TO LAYOUT SITE:

- Plastic cover and plywood or cardboard sheet to affix layout and 3-d drawings
- Butchers cord (50' minimum)
- Spray paint
- Spikes to mark channel locations

TOOLS REQUIRED FOR INSTALLATION:

- 9" and 12" power auger
- Vise grips
- shovels and wheelbarrows
- 24" & 48" levels
- Sledge hammer
- Hammers
- 1/2" variable speed, heavy duty drill
- drill bits 5/16" & 13/32"
- round file
- Imperial socket set
- tape measures - 20' & 25' & 100' long
- 2" x 4" x 3' long wood
- utility knife
- hack saw
- jackall jack
- pipe cutter & reamer
- black Robertson screw bits
- chop saw
- pry bar
- rakes & broom
- bucket and clean rags for concrete cleanup
- trowel
- welder & welding equipment
- 5" wide channel

READING AND UNDERSTANDING THE LAYOUT AND 3-D DRAWINGS:

Before starting the installation of your playstructure, study your layout and 3-d drawings and all the installation instructions carefully for locations of posts, deck heights, component locations. Also check your drawings for the lengths and locations of the required channel. Your layout and 3-d drawing will be marked with the appropriate scales. The overall bordered area required which is marked on the layout drawing should be compared to the actual area you have available for your playstructure, to ensure that it will fit. This overall bordered area includes the actual playstructure area plus a minimum protective surface area that extends around the playstructure to cover the zone of use. Also, notice any no-encroachment zones on your layout drawing. These zones ensure that the equipment is a minimum distance, as required by your local standards or guidelines, away from other equipment, fences, and other obstructions. Next, notice on your layout drawings, the numbers at the post base, these numbers coincide with the

numbers on the bottom of the actual playstructure posts.

TO LAYOUT SITE:

Try to pick a level and dry area if possible ensuring that the actual area dimensions coincides with the layout drawings overall bordered dimensions required. When the area is selected always check for underground utilities (hydro, telephone, water, etc.), then you can proceed further.

Unless otherwise specified on the layout drawings, try to face your playstructure so that any stainless steel slides face north or east to avoid heating by the sun.

First, check your layout drawing for the longest channel section. Use that channel section as your starting channel for further measurements. Determining the placement of this row is as follows:

1) Select an end post on that channel, supporting the highest deck. This will be your starting point.

2) The placement of this starting point in the actual playstructure area should be determined next, by measuring the actual ground space from the starting point to any existing fences, or other obstructions. This measured distance must allow for the zones required, as shown on the layout drawing and discussed earlier. Placement of this point in the actual playstructure area is very important because all other points depend on the accuracy of this starting point.

3) Once the starting point is located in the actual playstructure area, ensure that there is enough area for the entire playstructure and border (with protective surface material) shown on the layout drawing. Using a spike to mark the starting point measure out in all directions to confirm the location is correct.

4) Now that you have your starting point located, you can proceed to layout the channel sections locations.

ONGROUND INSTALLATION - STEPS FOR ONGROUND INSTALLATION:

- 1) laying out and levelling channel sections for main body of playstructure
- 2) assembly of playstructure posts and decks
- 3) laying out and levelling channel sections for components
- 4) installation of components
- 5) checking
- 6) installing protective surface

1) LAYING OUT AND LEVELLING CHANNEL SECTIONS FOR MAIN BODY OF PLAYSTRUCTURE:

Now that the starting point is located, lay the longest channel section in the proper location. This long channel section should be located below the main body of the playstructure in the appropriate location, (with the channel flanges downward) according to the layout drawing. Next, level this long channel section (SEE FIG. 1) in both directions end to end and side to side. Do this by digging down (with a shovel) or driving down (with a sledge hammer) making the channel level in both directions. If using a sledgehammer, be sure only to hit the channel on the edges and not in the middle, do so could cause bending of the channel.

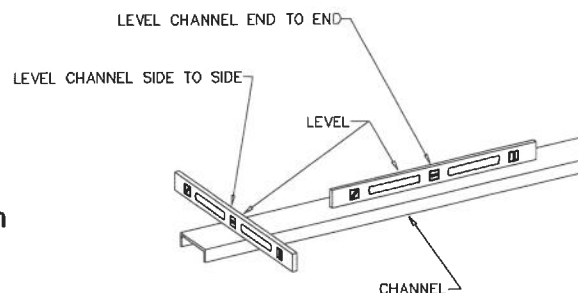


FIG.1

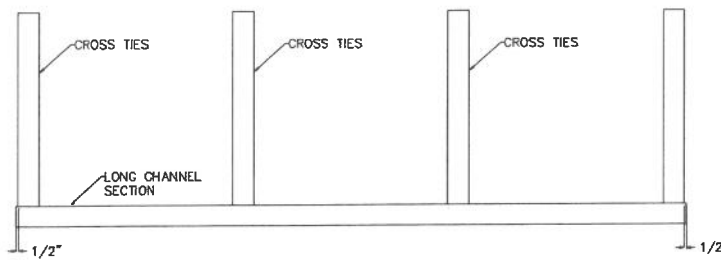


FIG.2

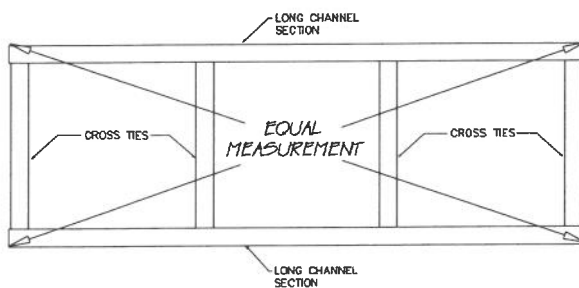


FIG.3

When the first channel section is properly positioned and level, begin to set the cross ties in the proper locations (at a right angle to the first channel) according to the layout drawing provided. Next, using the first channel section as a level guide, ensure that the cross ties are also level in both directions.

Ensure that the cross ties located at the ends of the first channel section is 1/2" in from the end. This 1/2" will allow space for the welds at these corners. When the cross ties are properly positioned and level lay the next long channel section into position at the end of the cross ties. Again ensure that this channel section is level both ways. When these 2 long channel sections and the cross ties are properly positioned and level, check (SEE FIG. 3) that they are square. Do this by measuring the diagonal distance from corner to corner. This measurement must be equal before proceeding.

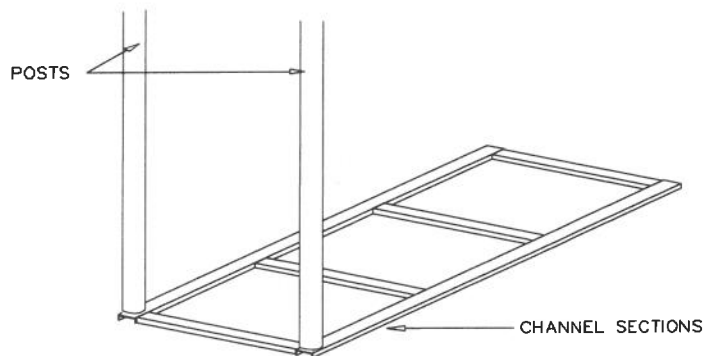
The next step is to place tack welds at the joints of the laid out channel sections. A tack weld is a small temporary 1/4" to 3/8" weld, that could be broken if adjustments are required. Place 1 tack weld on the 4 corners of the channel at each channel section joint. Next, mark with a pencil or marker, the playstructure posts locations on the channel, as per your layout drawings.

2) ASSEMBLY OF PLAYSTRUCTURE POSTS AND DECKS:

Now that the locations have been marked on the channel, locate the numbered posts for the appropriate locations according to the layout and 3-d drawing. Next, select the end corner post on the highest deck and stand this post upright in the appropriate location on the channel. Ensure that the post is positioned with the pre drilled holes in the same direction as shown on the 3-d drawing. Next, with the post sitting squarely on the channel and in the proper place, check to see that the post is plumb on two sides.

If the post is plumb on both sides, tack weld in an "x" pattern. This "x" pattern must be tack welded quickly because cooling of welds causes shrinkage and will cause post to tilt out of plumb. If the post is not plumb in either direction, determine which way it is leaning. You will then tack weld on the opposite side to which it is leaning. Then hold the post level and place the 3 other tack welds. Before continuing ensure that the post is plumb and welded squarely onto the channel.

FIG. 4



Now, use the same procedure (as for the first post) to plumb, the second post.

Ensuring that the posts sit squarely on the channel helps to keep the posts aligned on the long channel sections.

Next, lift the appropriate deck or deckframe into position and connect to the posts with two 3/8" x 1" buttonhead cap screws. While holding the deck level, stand the next 2 posts in place and attach to the deck with two 3/8" x 1" buttonhead cap screws. Do not allow excessive movement during this procedure because the tack welds may break. Next, plumb these posts and set squarely on the channel and tack weld as explained previously.

When the plastisol deck or deckframe has been secure at both ends, the posts should be raised or lowered, in order to achieve proper deck height. Remember, that the deck heights shown on the layout drawing are measured from the finish grade. All posts must be plumb and deck must be level. Next if any of these posts supports a slide pole or wavy slide pole or tower climber or corkscrew or roof, install it now according to component installations. This will help to maintain a constant measurement between the posts and make more sturdy.

Now that you have assembled your first four posts and plastisol deck or deckframe you may proceed to assemble the remainder of the posts with either plastisol decks or deckframes. Do this by physically placing the adjacent plastisol decks or deckframes on the channel and marking the next posts locations on the channel. Remove the plastisol deck or deckframe from this area and prepare the next post installation and assemble deck and post as previously described. Continue this process until all decks and posts are in the appropriate place.

Where a connecting component such as a bridge or crawl tunnel is used, refer to the layout drawing for measurements to locate the next post holes. Place the plastisol deck or deckframe on the channel to complete locating the posts positions. Remove the plastisol deck or deckframe and prepare the post installation as previously described.

After all decks and connecting components are levelled and tack welded to the channel sections place continuous welds on all joints where to this point only tack welds are located. Please chip off any weld scale and paint (dark brown metal rust paint) all welded joints to prevent rusting.

3) LAYING OUT AND LEVELLING CHANNEL SECTIONS FOR COMPONENTS:

See the layout drawing regarding layout of the appropriate length channel sections for the installation of each component. Complete the marking and levelling and tack welding of all channel for all the components, before continuing.

4) INSTALLATION OF COMPONENTS:

See the attached pages for further information on the installation instruction for each component. All component installation instructions ask you to set the component in the appropriate location and alternatively prepare the sub-grade . This means - At the base of the each individual component, place a channel section where the ground attachment (examples - ground legs, ground pipes) would have entered the ground (if this where in-ground installed). Again ensure that this channel section is level both ways and tack weld channel sections together. Next determine the finish height of the components (ensure that slide exit allow water to shed off of the slide bedway). Using a metal cut-off saw cut the ground attachment to the proper length. Attach the component to the deck and attach the ground attachment as described on the component installation instruction and tack weld the it to the channel section. Continue this process for all components. Lastly, place continuous welds on all joints where to this point only tack welds are located. Please chip off any weld scale and paint (dark brown metal rust paint) all welded joints to prevent rusting.

5) CHECKING:

Ensure that all posts are plum on all sides. Make sure all decks are level and to the exact deck

height as shown on layout drawings. Ensure that all components attach to decks as per instructions, no gaps exist due to looseness or misalignment of parts. Next, ensure that all fasteners used throughout the process are firmly secured. Finally, ensure that all joints which require a weld has a good, solid, continuous weld.

6) INSTALL PROTECTIVE SURFACING:

Install protective surface material when the installation of all equipment is completed. The protective surfacing should be evenly distributed and raked level. The playground should not be opened until this step is completed.

FINAL NOTES

INSTALLATION:

While installing any playground equipment, if the site must be left unattended, make sure the area is left safe. Clean-up all tools, cover all open ground holes and erect a snow fence or other barrier to keep children out of the area.

Installation of playground equipment should be carried out strictly in accordance with the manufactures/designers recommendations.

RECYCLING:

Many of our packaging materials can be recycled. Please take the time to separate and deliver them to a recycle centre. THANK-YOU.

TECHNICAL SERVICES:

If you have any questions or concerns regarding the installation of your PLAYSTEEL playstructure, call Henderson Recreation Equipment Limited at:

PHONE: 1-800-265-5462 toll-free

FAX: 1-519-426-8142

MAIL: Henderson Recreation Equipment Limited

11 Gilbertson Drive,
P.O. Box 68,
Simcoe, Ontario,
Canada, N3Y 4K8

PLEASE NOTE, THE FOLLOWING ATTACHED PAGES ARE YOUR COMPONENT INSTALLATION INSTRUCTIONS, AS REQUIRED FOR YOUR PLAYSTRUCTURE.

Torque Requirements

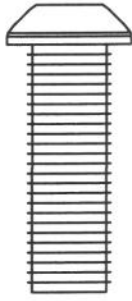
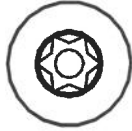
The following are target torque values for typical fasteners. The actual values should be determined by means of a torque wrench. The torque values given are (unless otherwise noted) typical for all lengths of the given fastener size.

Size	Description	Torque in*lbs
1/4"	Carriage Bolt	66
5/16"	Carriage Bolt	132
3/8"	Carriage Bolt	240
7/16"	Carriage Bolt	600
1/2"	Carriage Bolt	600
3/8"	Eye Bolt	240
3/8"	Machine Bolt	240
7/16" x 2 1/2"	Machine Bolt	600
7/16"	Machine Bolt	384
1/2"	Machine Bolt	600
5/16"	Truss Bolt	132
3/8" x 3/4"	Button head Cap Screw	540
3/8"	Button head Cap Screw	240
3/8"	Flat Head Hex Socket Cap Screw	240
5/16"	Hex Head Lag Screw	132
3/8"	Hex Head Lag Screw	240
3/8" x 1/4"	Set Screw	130
3/8" x 3/8"	Set Screw	240
1/2" x 1/2"	Set Screw	316

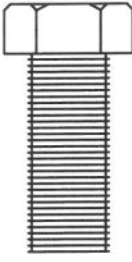
Typical Hardware Key (For Identification of Parts)



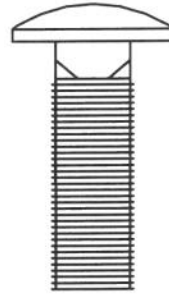
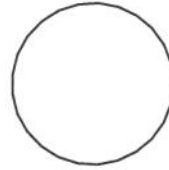
**3/8" Set
Screw**



**3/8" Button Cap
Torx w/Pin**



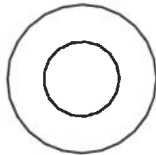
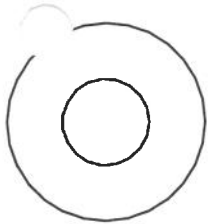
**3/8" Machine
Bolts**



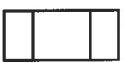
**3/8" Carriage
Bolt**



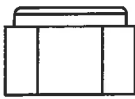
5/16" Quick Link



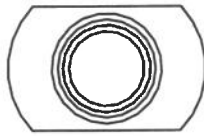
3/8" Flat Washer 5/16" Flat Washer



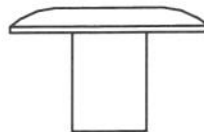
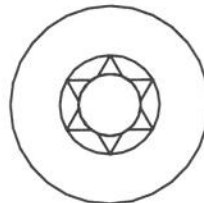
Hex Nut



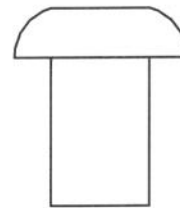
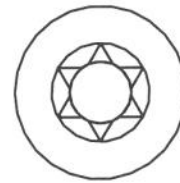
**Lock Nut
w/ Nylon Locking**



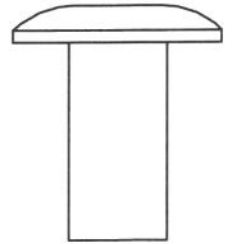
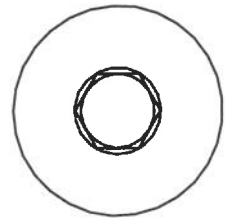
T-Nut



Camtainer Nut



Barrel Nut



Spenco Nut

Tools Required

Impact Gun or Imperial socket set

Parts Included

Nut Insert Tool & extra nut inserts

Step One: Locate Parts

Determine location of either the missing nut insert (go to step 2) or loose nut insert (go to Step 3).

Step Two: Installing A Missing Nut Insert

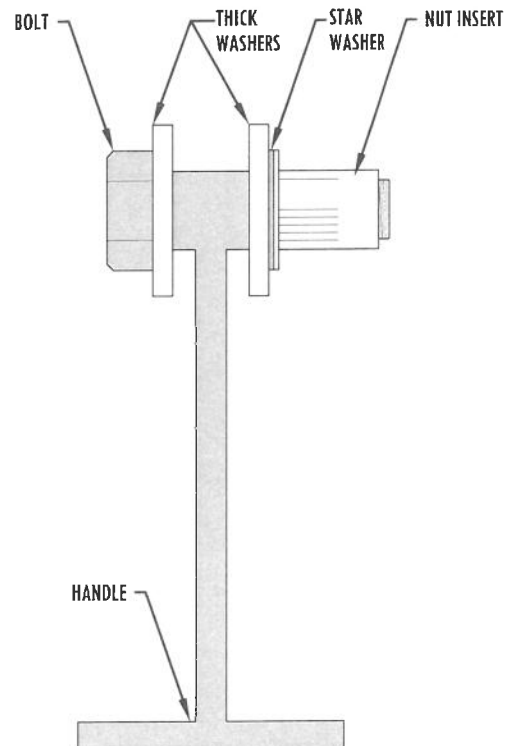
Ensure that the nut insert tool looks as per the figure shown. Fully insert the nut insert into the 13.6 mm diameter hole. While holding handle, tighten down the bolt with an Impact Gun. Remove the tool by unscrewing it from the secured nut insert.

Step Three: Tightening A Loose Nut Insert

Ensure that the nut insert tool looks as per figure shown but without the nut insert. Fully screw the bolt into the nut insert which is in the 13.6 mm diameter hole. While holding handle, tighten down the bolt with an Impact Gun. Remove the tool by unscrewing it from the secured nut insert.

Final Step: Check

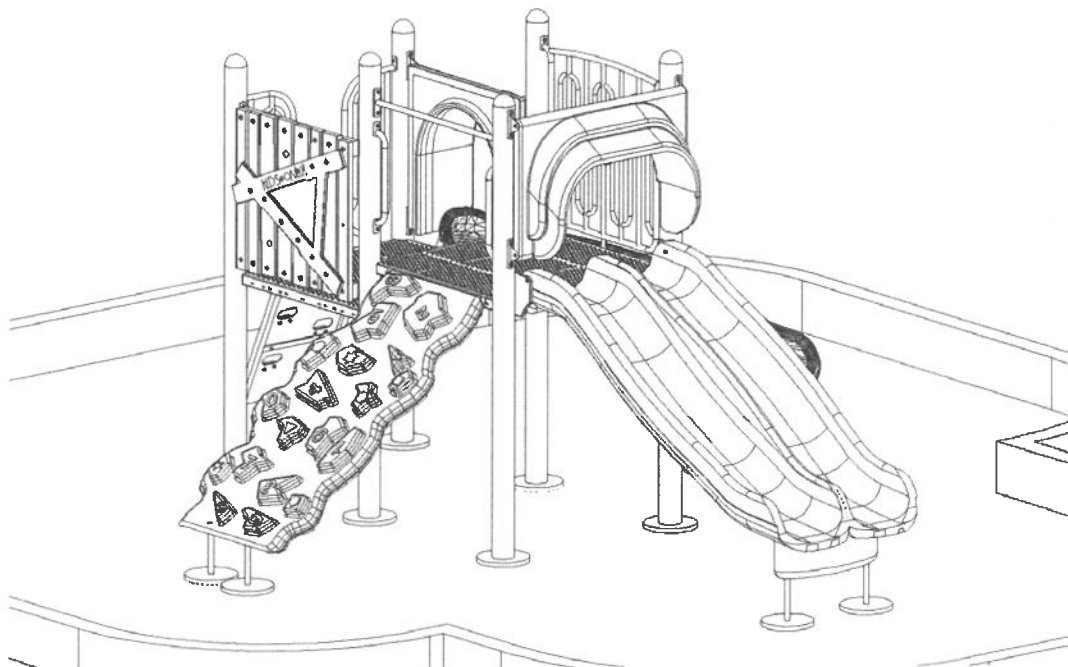
Do a final check to make sure that the Nut Inserts are tightened securely.



Due to hardware shortages, we have replaced the locking flange nut with a 5/16 flatwasher and lock nut 3/8"-16 UNC.

Wherever you see this locking flange nut in the installation instructions, please substitute with a washer and locknut.

In-Ground Installation Instructions for PlaySteel FIT & MAX



Please take the time to review this very **IMPORTANT** information concerning the installation of your new Henderson Recreation Equipment Play Structure. To assist you with the installation of your new play structure, we have listed a few important details for you to consider that will help to ensure there are no unnecessary delays and additional costs for the installation of your equipment. If you have any questions or require additional information, please contact your sales representative or the installation coordinator.

Information Included in this Package

Component Installation Instructions
In-ground Method Installation Instructions
Layout Drawings / 3d Drawings
Packing Slip / Customer Count-sheet

Tools Provided for Installation

Tamper Resistant Key Torx #45

Tools Required for Installation

Allen Socket, 7/32"
Allen Socket, 3/8"
Tamper Resistant Socket T-45T
Bolt Cutters
Claw Hammer
Drill, 1/2" Heavy Duty and Variable Speed
Drill Bit Set
Levels, 24", 48"
Pliers
Pry Bar
Ratchets, 3/8", 1/2" c/w Extension
Round File
Rubber Mallet
Screwdriver Set
Sockets, Deep 1/2" to 3/4", 10mm
Square, Small Corner Square
Tape Measures, 20', 25', 100'
Tin Snips
Utility Knife
Vice Grips
Wire Cutters
Wrenches, 3/8" to 3/4", 10mm

Utility Locates

If installation of your equipment will require digging or excavation, it is important that the underground locations of utilities such as electric, gas, telephone, cable, water or any other private or underground obstructions are known prior to excavation work commencing. Failure to complete this necessary step may result in damage to the underground services or cause a potentially dangerous situation.

Contact your local providers to have this service performed. The utility representative should leave a document with you to indicate there is no conflict with the area designated for the new play structure.

Tools Required for Site Layout

Line Level (50' minimum)
Plumb Bob
Stakes (for Locating)
Spray Paint

Equipment Required for Installation

Auger, 12" Diameter
Chainsaw (for Wood Border)
Cleanup Supplies, Bucket and Clean Rags
Extension Cord, 50'
Generator, 4000 Watt (or Eq. Power Source)
Jack All Jack
Rakes
Shovels
Sledge Hammer
Water / Water Source
Wheelbarrow

Material Required for Post Support

Carriage Bolt, 3/8" x 4" (2 per Ground Hole)
Chain, 4/0 Coil 16" Long (1 per Ground Hole)
Flat Washers, 3/8" (2 per Ground Hole)
Lock Nuts, 3/8" (2 per Ground Hole)
Wood, 2" x 4" x 2' (3 per Ground Hole)

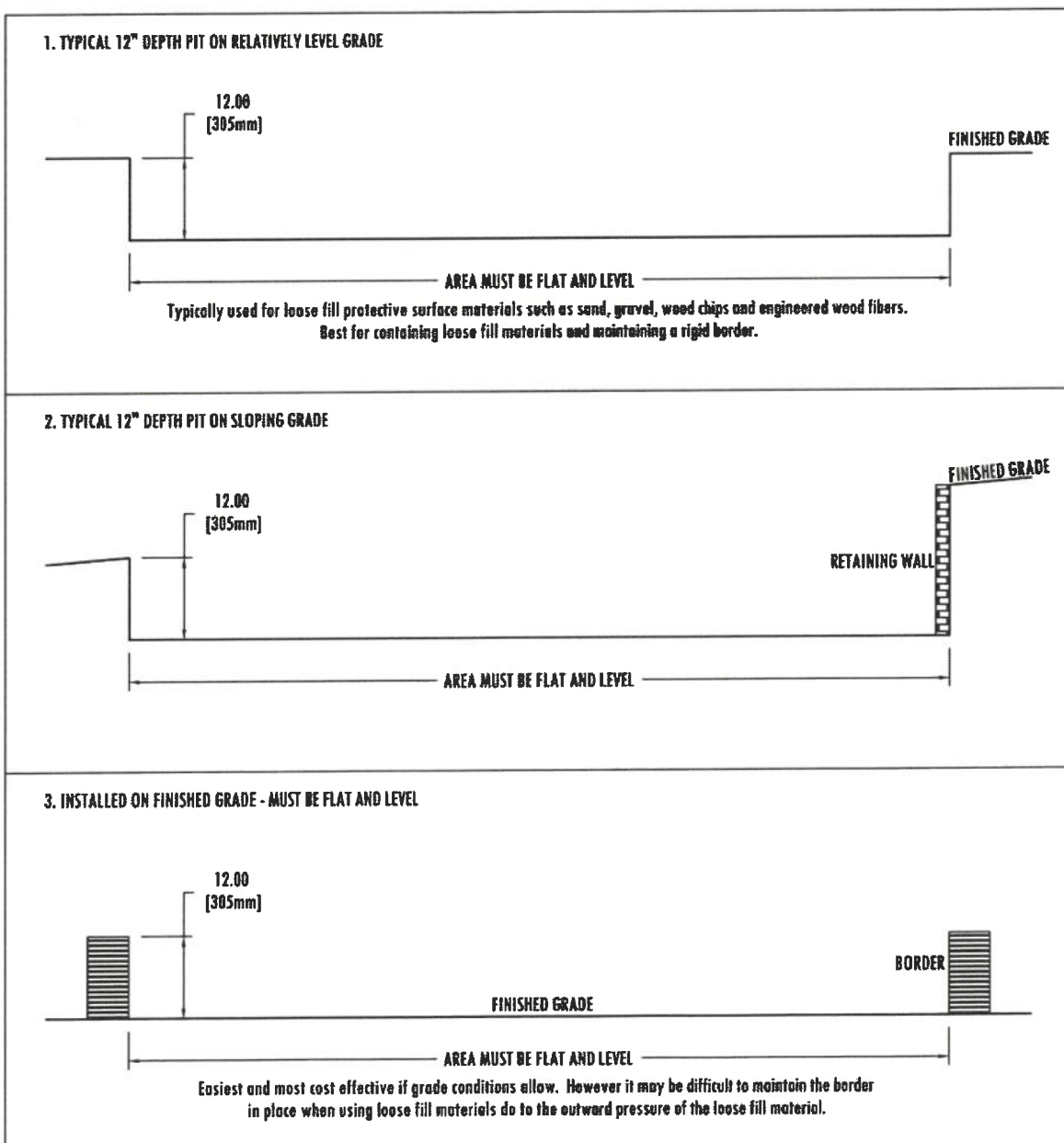
Play Structure Site Excavation Details

All play structures must be installed on a flat and level surface to ensure that the end result is compliant with the CSA (Canada) or ASTM (U.S.) standard. Depending on the physical site, the type of containment border and protective surfacing material chosen, there are several methods of site preparation that will produce acceptable results. Pit Depths or Border Heights will vary depending on surfacing material.

Some examples of the installation types are shown below in sectional views. In all cases, the grade on which the protective surfacing will be installed must be **FLAT** and **LEVEL**. The perimeter dimensions of the protective surface zone required for your equipment are indicated on the drawings that were provided to you.



Filter cloth, drainage tiles, borders or protective surfacing material should not be installed prior to the installation of the play structure as any of these can be easily damaged due to the construction activity.



Understanding Your Layout Drawing

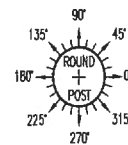
Before beginning the installation of your play structure, study your layout drawing, 3d drawing, and component installation instructions carefully.

IMPORTANT

The required site dimensions are marked on the layout drawing and should be compared to the actual area to ensure that the play structure will fit. This overall bordered area includes the actual play structure plus a minimum protective surface area that extends to cover the zone of use. Note any no-encroachment zones (Canada only) on your layout drawing. This extra space is required for certain play components such as slides, swings and certain rotating equipment and is intended to allow pedestrian traffic near the play equipment in use while minimizing the risk of injury to pedestrians. Depending on the layout arrangement, a no-encroachment zone does not require protective surfacing but must be free of obstructions that would hinder free pedestrian movement.

Your layout drawing is used to identify post locations. The numbers at the post bases coincide with the numbers on the bottoms of the actual structure posts.

PlaySteel Fit & Max compass Locate the hole closest to the bottom end of the post to determine side 0.



You will use these to orient the post in the appropriate direction within the site. A post compass is provided on your layout drawing that identifies your unique post direction. Your layout drawing is also marked with a scale key that can be used to obtain additional measurements not directly provided.

Laying Out Your Play Structure

Always begin by measuring the prepared site to ensure that it is large enough to safely contain your play structure, including all required safety zones. If the site is not large enough, your play structure will not comply with the CSA (Canada) or the ASTM (U.S.) standard.

Unless otherwise specified, face the play structure so that any stainless steel slides face north or east to avoid heating by the sun.

It is generally easier to install a play structure from the lowest to the highest deck. Lower decks are typically supported by shorter posts. Shorter posts are easier to stand and balance than taller posts. Once the lower decks are installed, they can be used to balance the taller posts and decks.

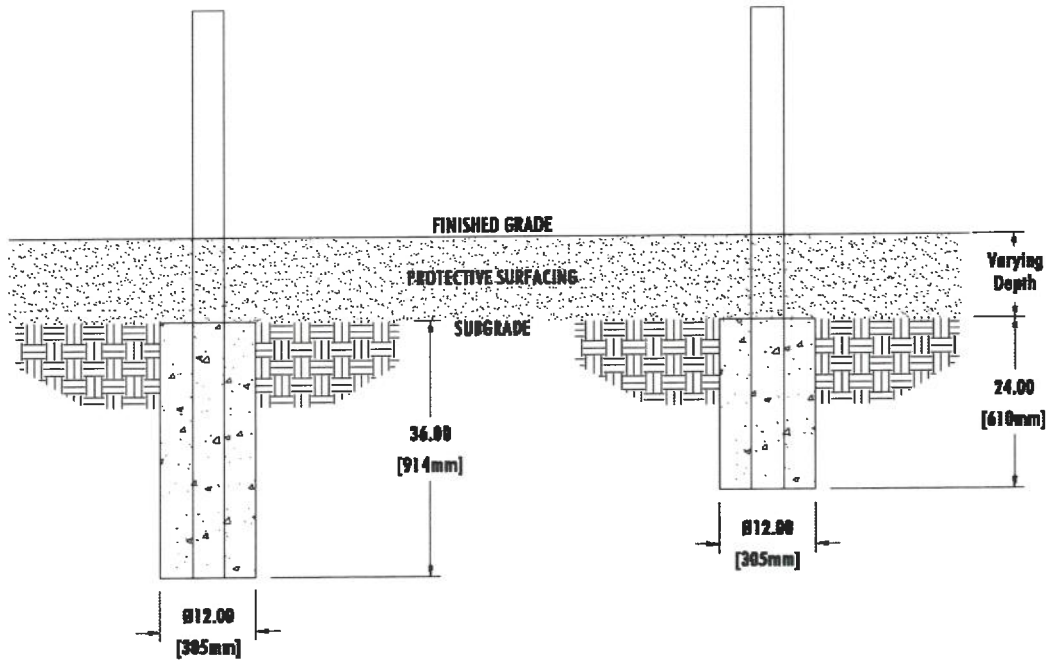
Your layout drawing will contain a starting dimension from the edge of the site to the lowest deck. Other optional starting points will also be dimensioned. Use the scale key for measurements if you wish to start at a location not directly dimensioned. In certain circumstances it may be beneficial to assemble the play structure starting in areas that are dimensionally critical. An example of this may be when you are required to mate a wheelchair ramp or bridge with an existing concrete curb. In this scenario it would be prudent to assemble the play structure starting with that wheelchair ramp or bridge.

Once you have determined a starting point, translate this point into the prepared site by measuring in from the edge of the site. Placement of this point is very important because all other points depend on its accuracy. Once the starting point is located in the prepared site, confirm that there is enough area in the opposite directions to safely contain the play structure.

Now that you have your starting point located, begin to layout the rest of the post locations. You can layout post locations by measuring with a tape measure and marking the location with a stake (or spray paint), or by using the physical component. For example, if installing a deck, set the deck in the appropriate location and mark the locations of the posts with stakes (or spray paint). Remove the deck and use the stakes (or spray paint) to indicate where to auger the holes.

Drilling Ground Holes

Once post locations are marked, auger ground holes for them. Hole depth may need adjustment based on the geographical location of the installation site. High frost areas may require a deeper hole. It may be necessary to dig out the bottom of the hole by shovel after the power auger has been removed to ensure proper depth.



IMPORTANT

All included installation drawings assume a 48" deep hole. If you have asked for a different ground hole depth, the post length supplied to you will already be adjusted to match your required depth. In this case it is your responsibility to adjust your ground hole depths accordingly. Failure to do so could result in your play structure being too high or too low once the protective surfacing has been added to the site.

Always confirm the depth your posts have been cut for by finding the depth number on the Post Holes page included within this package.

Post #	1	Post #	2
Post Type	5 Round Post - Aluminum Cap	Post Type	5 Round Post - Aluminum Cap
Length	108	Length	82
0	105.5	0	78.5
15		15	
30		30	
45		45	
60		60	
75		75	
90		90	
105		105	
120		120	
135		135	
150		150	
165		165	
180		180	43
195		195	
210	4, 9, 15, 5, 55	210	
225		225	
240	57	240	
255		255	
270		270	5
285		285	
300	57	300	
315		315	
330	17, 53	330	
345		345	



Order Number
18-10000
Drawing Number
B50000R1

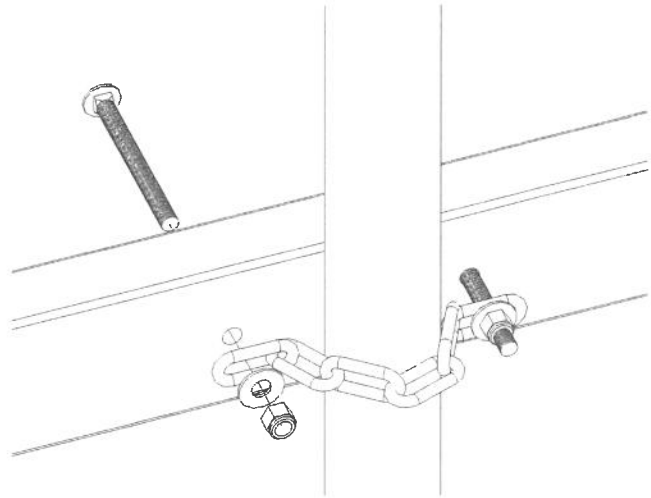
Surface Depth:
48

- Install Type
- In Ground
 - On Ground
 - Mixed

Supporting The Play Structure

Once four post holes have been drilled, locate the appropriate numbered posts according to the layout drawing. Stand the posts upright in the ground holes and ensure that they are positioned in the appropriate direction identified by the post compass. Lift the deck into position and fasten using the hardware identified in the deck installation instruction.

Once the deck has been connected at all four corners, the posts should be raised in order to achieve the proper deck height. To brace the posts in place you will need a way to support them. Start by drilling out two 7/16" holes in one 2' length of 2" x 4". The holes should be 7" apart and centred on the board in both directions. Using a 16" length of chain, two 3/8" x 4" carriage bolts, two 3/8" flat washers, and two 3/8" locknuts, fasten the chain around the post and tighten to the board. Tighten until the brace does not move along the post. A rubber mallet can be used to test the strength of your brace. Support the 2" x 4" brace with two other 2" x 4" boards on either side of the ground hole. To raise or lower your deck, slightly loosen the nut, adjust the height and retighten.

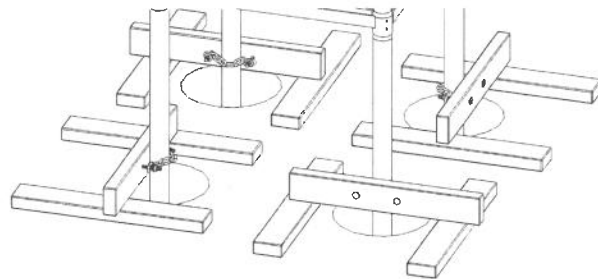


IMPORTANT

The deck heights shown on the layout drawing are measured from finished grade. If the site has been excavated for 12" protective surfacing, a 12" high deck will measure 24" from the sub-grade to the top of the deck.

When arranging braces for a deck it is necessary to alter the directions of the braces under each post. The deck will be unstable if all four braces are facing the same direction.

Whenever you can, install components such as vertical rail panels, turning bars, plastic activity panels, and slide hoods as you go. These will help keep your decks square and rigid as you continue drilling more holes and adding more decks to your play structure.



Continue to assemble the play structure following the procedures that have been outlined thus far. Post locations for attaching decks can be found by measuring out with a tape measure or by using the physical part as a guide.

For connecting components such as bridges or crawl tunnels, refer to the layout drawing or individual instructions for measurements to locate their corresponding post holes.

Continually check your dimensions to make sure you are running true within the site. Each component that is added to the play structure makes it more difficult to readjust the direction of the play structure. If the unit is veering off in any direction that may cause your protective surfacing zone to be smaller than anticipated, correct the problem before continuing to install the remaining components.

Component Installation

Once all decks and connecting components have been attached, it is time to install all the components that connect the play structure and the ground. These components include slides, climbers, and stairs. The attached individual installation instructions will detail ground hole locations and the assembly procedure for these components.

Most multiple deck play structures contain infill panels. These are easy to miss on the layout and 3d drawings, but they must be installed to ensure a safe playground. The customer count-sheet will identify the number of infill panels that have been shipped and should be installed on your play structure.

Checking

Once assembly is complete, do a final check before proceeding. Ensure that all posts are plumb on all sides. All decks should be level and adjusted to the correct height for the amount of protective surfacing required. Ensure all components are attached per their instructions. Finally, ensure that all fasteners are tight and firmly secured.

Concrete Footings

Concrete should be poured only after all posts, decks and components are properly and securely installed. While adding concrete to the ground holes, prevent splashing on the equipment. As the ground hole is being filled, use a shovel to stir the concrete to remove any air pockets. Fill the ground hole completely to sub-grade level.

After the concrete had been poured, ensure that all posts and decks have remained level and plumb. The recommended setting time for concrete is 24 to 48 hours. After the concrete has set, remove all wooden braces and chain. These may pose a hazard if left in the protective surfacing.

Note: 1 cubic yard (27 cubic feet) of ready-mix concrete will fill approximately nine 12" diameter 48" deep ground holes.

Protective Surfacing Installation

Install protective surface material after all concrete footings have been placed and set, as well as all wooden braces have been removed. The protective surfacing should be evenly distributed and raked level. The playground should not be opened until this step is complete.

Installation Safety

While installing any playground equipment, if the site must be left unattended, make sure the area is left safe. Clean up all tools, cover all open ground holes, and erect a snow fence or other barrier to keep children out of the area.

Installation of playground equipment should be carried out strictly in accordance with the manufacturer's recommendations.

Recycling

Many of our packaging materials can be recycled. Please take the time to separate and deliver them to a recycling centre. Thank you!

Torque Requirements

The following are target torque values for typical fasteners. The actual values should be determined by means of a torque wrench. The torque values given are (unless otherwise noted) typical for all lengths of the given fastener size.

Size	Description	Torque in*lbs
1/4"	Carriage Bolt	66
5/16"	Carriage Bolt	132
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3/8"	Machine Bolt	240
7/16" x 2 1/2"	Machine Bolt	600
7/16"	Machine Bolt	384
1/2"	Machine Bolt	600
5/16"	Truss Bolt	132
3/8" x 3/4"	Button head Cap Screw	540
3/8"	Button head Cap Screw	240
3/8"	Flat Head Hex Socket Cap Screw	240
5/16"	Hex Head Lag Screw	132
3/8"	Hex Head Lag Screw	240
3/8" x 1/4"	Set Screw	130
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1/2" x 1/2"	Set Screw	316

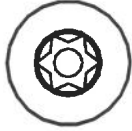
Typical Hardware Key (For Identification of Parts)



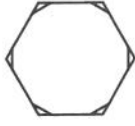
3/8" Set Screw



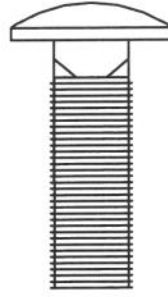
3/8" Button Cap Torx w/Pin



3/8" Machine Bolts



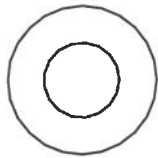
3/8" Carriage Bolt



5/16" Quick Link



3/8" Flat Washer



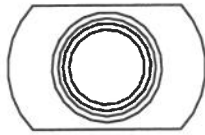
5/16" Flat Washer



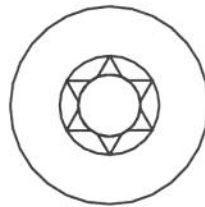
Hex Nut



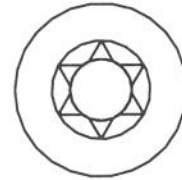
Lock Nut w/ Nylon Locking



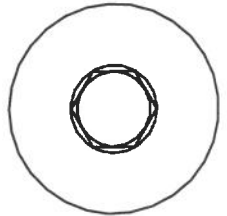
T-Nut



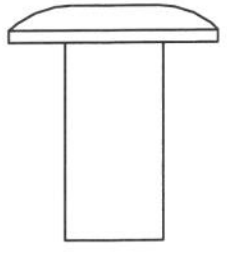
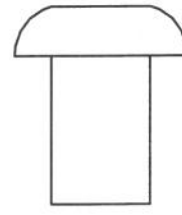
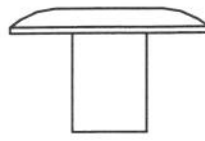
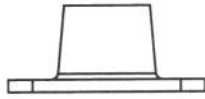
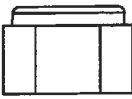
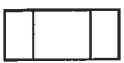
Camtainer Nut



Barrel Nut



Spenco Nut



Tools Required

Impact Gun or Imperial socket set

Parts Included

Nut Insert Tool & extra nut inserts

Step One: Locate Parts

Determine location of either the missing nut insert (go to step 2) or loose nut insert (go to Step 3).

Step Two: Installing A Missing Nut Insert

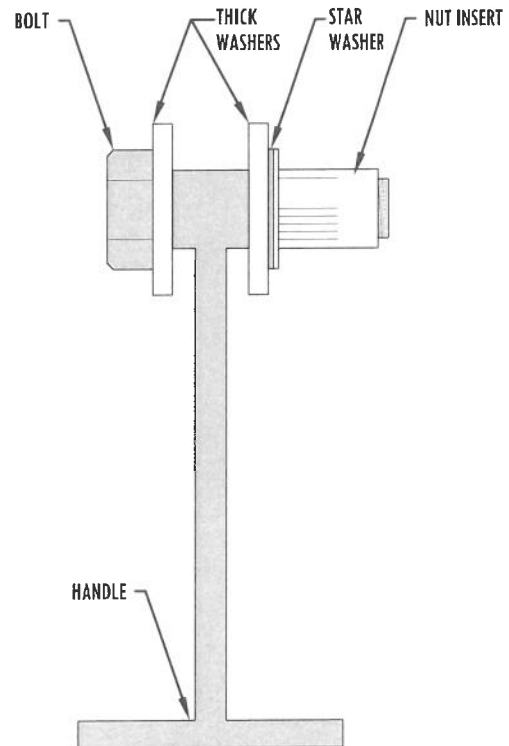
Ensure that the nut insert tool looks as per the figure shown. Fully insert the nut insert into the 13.6 mm diameter hole. While holding handle, tighten down the bolt with an Impact Gun. Remove the tool by unscrewing it from the secured nut insert.

Step Three: Tightening A Loose Nut Insert

Ensure that the nut insert tool looks as per figure shown but without the nut insert. Fully screw the bolt into the nut insert which is in the 13.6 mm diameter hole. While holding handle, tighten down the bolt with an Impact Gun. Remove the tool by unscrewing it from the secured nut insert.

Final Step: Check

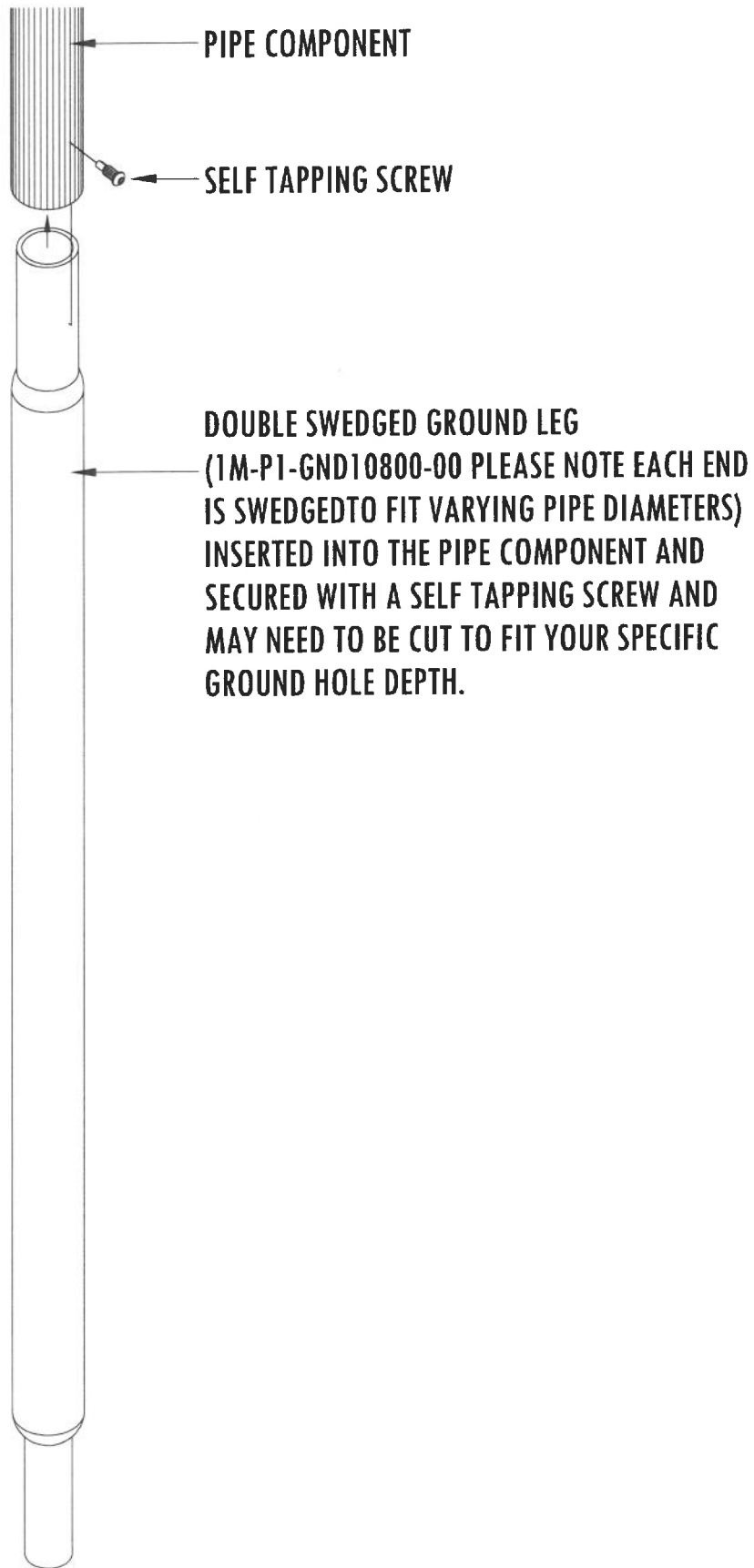
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Due to hardware shortages, we have replaced the locking flange nut with a 5/16 flatwasher and lock nut 3/8"-16 UNC.

Wherever you see this locking flange nut in the installation instructions, please substitute with a washer and locknut.

PIPE COMPONENT AND DOUBLE SWEDGED GROUND LEG DETAIL

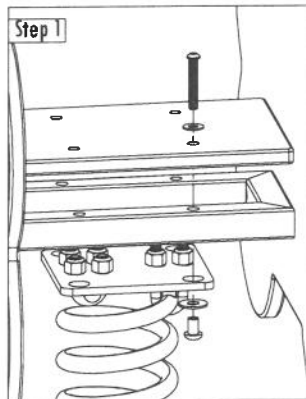
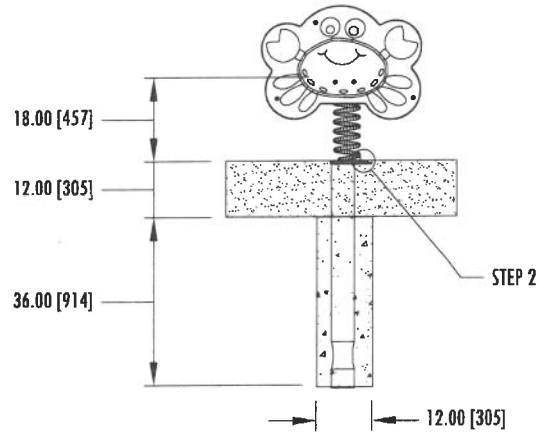
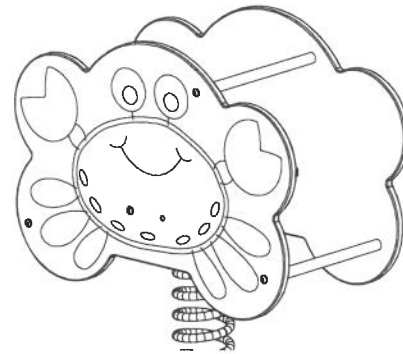


This Instruction Applies To The Following Modules :

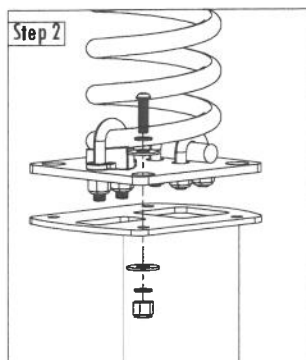
- | | |
|-------------------------------|----------------------------------|
| MT005 - Whale Motion Toy | MT221 - Fire Rescue Motion Toy |
| MT006 - Car Motion Toy | MT225 - Whale Motion Toy |
| MT007 - Bird Motion Toy | MT226 - Train Motion Toy |
| MT011 - Train Motion Toy | MT227 - Horse Motion Toy |
| MT013 - Dino Motion Toy | MT228 - Bulldozer Motion Toy |
| MT014 - Rhino Motion Toy | MT230 - Elephant Motion Toy |
| MT021 - Elephant Motion Toy | MT231 - Jet Boat Motion Toy |
| MT213 - Shark Motion Toy | MT232 - Airplane Motion Toy |
| MT216 - SUV Motion Toy | MT233 - Triceratops Motion Toy |
| MT217 - Jet Motion Toy | MT234 - Race Car Motion Toy |
| MT218 - Mr. Crabby Motion Toy | MT235 - Motorcycle Motion Toy |
| MT220 - Pig Motion Toy | MT-240 - Motorcycle Spring Rider |
| | MT246 - Puppy Spring Rider |

Parts List

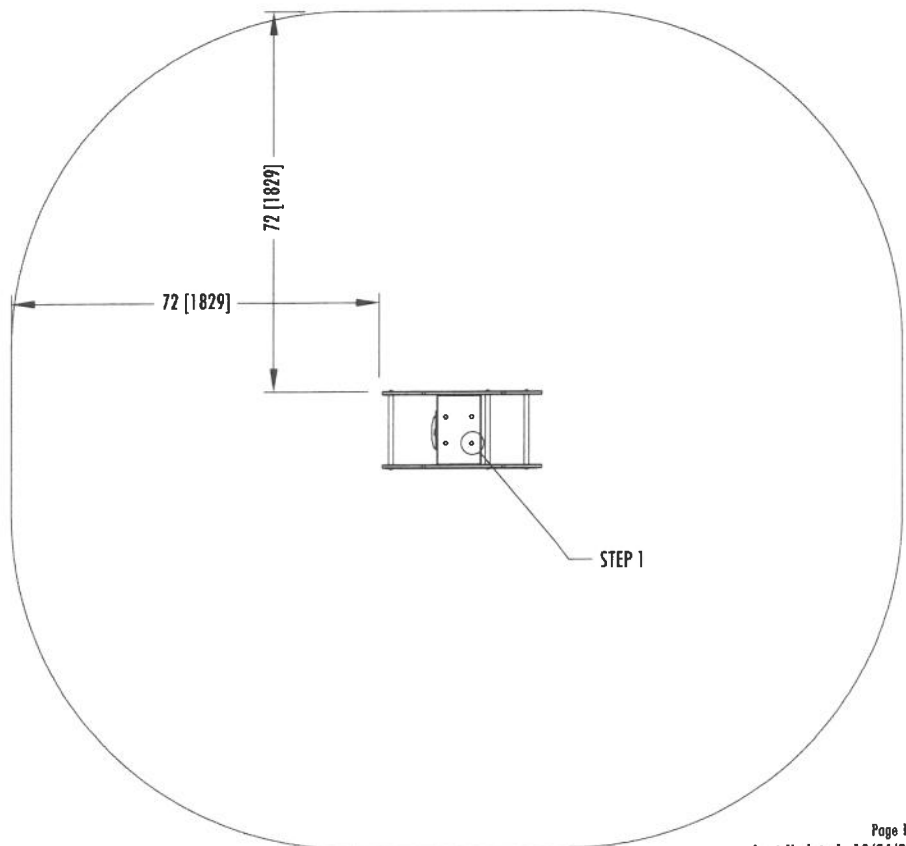
- | | | |
|----|-------------------|-------------------------------------|
| 1 | | Motion Toy Assembly |
| 1 | 1M-SA-GND00500-01 | Motion Toy Ground Leg |
| 1 | 1S-SA-PSP04700-00 | Spring Assembly |
| 4 | 2T-0606 | Button Cap Torx w/Pin 3/8" x 1-1/2" |
| 4 | 2T-0610 | Button Cap Torx w/Pin 3/8" x 2-1/2" |
| 4 | 4L-0600 | Lock Nut w/ Nylon Locking 3/8" |
| 4 | 4R-0603 | Barrel Nut 3/8" x 3/4" |
| 12 | 5F-0500 | Flat Washer 5/16" S/S w/ 3/8" hole |
| 12 | 5F-0800 | Flat Washer 1/2" |



2-1/2" Button Cap, 5/16" Flat Washer, 1/2" Flat Washer, Barrel Nut (x4)



1-1/2" Button Cap, 5/16" Flat Washers, 1/2" Flat Washers, Lock Nut (x4)



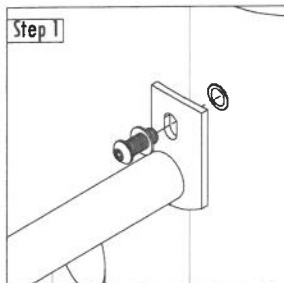
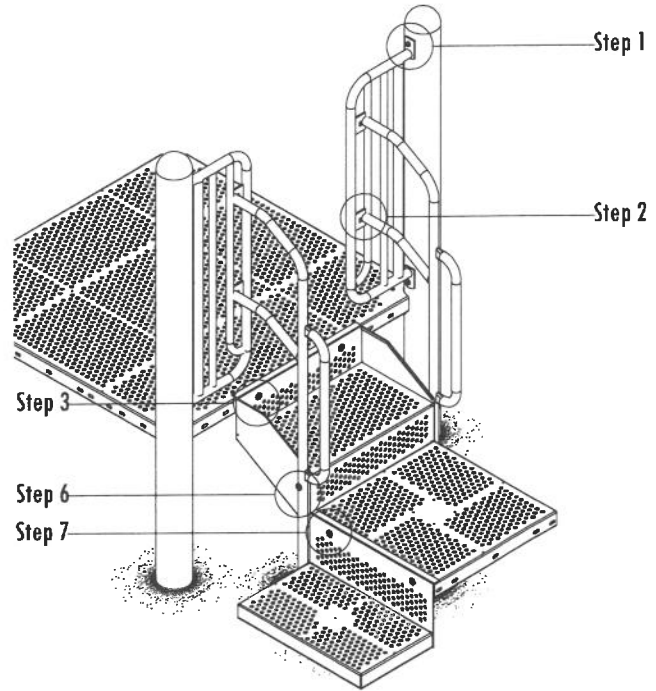
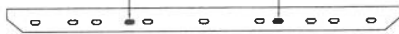
This Instruction Applies To The Following Modules :

- ST092 & ST102 - Transfer Station 2FT
- ST093 & ST103 - Transfer Station 3FT
- ST094 & ST104 - Transfer Station 4FT
- ST095 & ST105 - Transfer Station 5FT

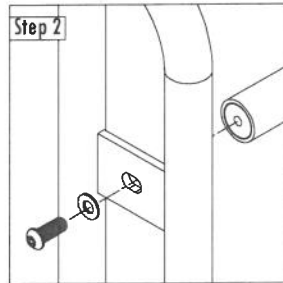
Parts List

2	GND10000	Transfer Station Ground Leg
2	HDR01300	Stair Barrier Rail- Upper 16"
2		Transfer Step Handrails
1	DCK02500	Transfer Deck
1		Accessible Stair
1	STR03500	Transfer Station Step
24	2T-0604	Button Cap Torx w/Pin 3/8" x 1"
2	2T-0608	Button Cap Torx w/Pin 3/8" x 2"
2	4L-0600	Lock Nut w/ Nylon Locking 3/8"
16	4N-0600	Locking Flange Nut 3/8"
26	5F-0500	Flat Washer 5/16" S/S w/ 3/8" Hole

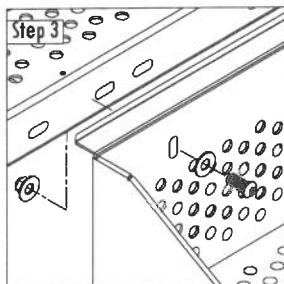
DECK HOLES USED



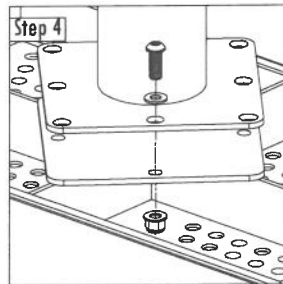
Step 1
1" Button Cap Torx, Flat Washer (x4)



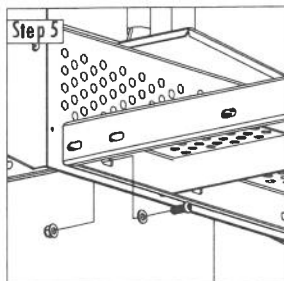
Step 2
1" Button Cap Torx, Flat Washer (x4)



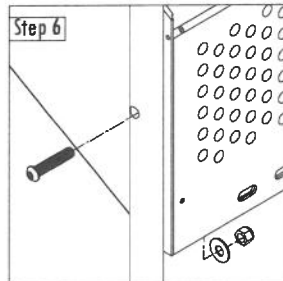
Step 3
1" Button Cap Torx, Flat Washers, Locking Flange Nut (x2)



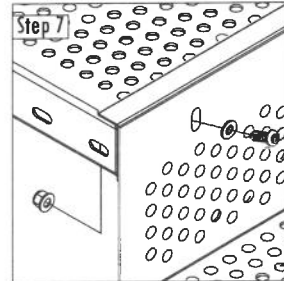
Step 4
1" Button Cap Torx, Flat Washers, Locking Flange Nut (x8)



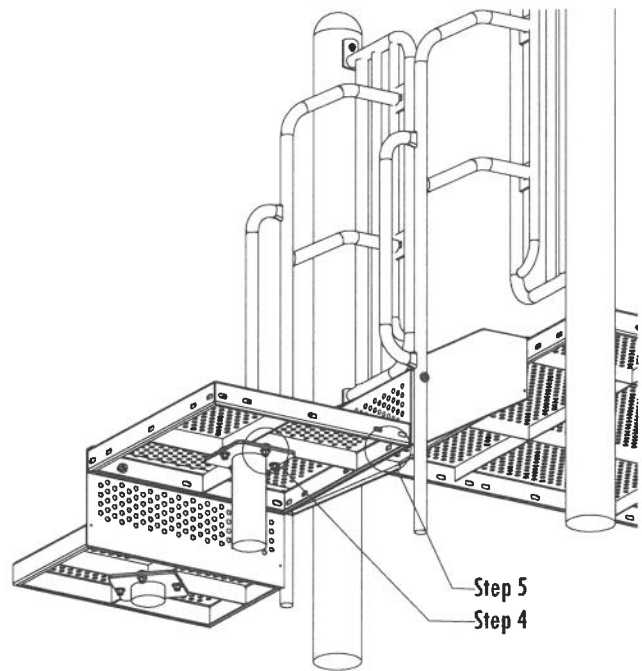
Step 5
1" Button Cap Torx, Flat Washers, Locking Flange Nut (x2)



Step 6
2" Button Cap Torx, Flat Washer, Lock Nut (x2)



Step 7
1" Button Cap Torx, Flat Washers, Locking Flange Nut (x2)



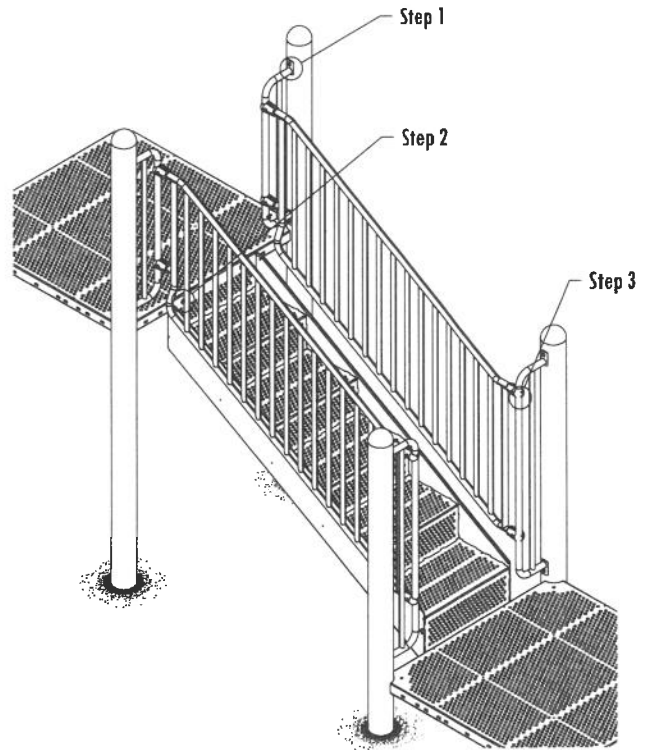
This Instruction Applies To The Following Modules :

ST061	Accessible Step Deck 12"	(1 Steps)
ST063	Accessible Step Deck 24"	(2 Steps)
ST067	Accessible Step Deck 48"	(5 Steps)
ST068	Accessible Step Deck 48"	(5 Steps)

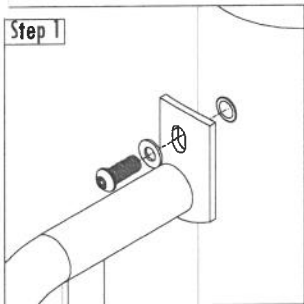
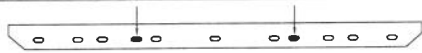
Parts List

2	BPN056	Accessible Step Deck Upper (37")
2	BPN057	Accessible Step Deck Lower (51")
8	CLP001	1.315" Tubing Clamp
2	HDR086	Accessible Step Deck Handrail
1		Accessible Stair

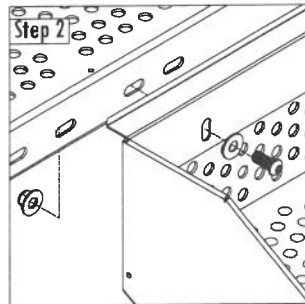
12	2T-0604	- Button Cap Torx w/ Pin 3/8" x 1"
8	2T-0610	- Button Cap Torx w/ Pin 3/8" x 1-1/2"
8	4L-0601	- SSLock Nut 3/8"-16 UNC .41h-11/16W
4	4N-0600	- Locking Flange Nut 3/8"
12	5F-0500	- Flat Washer 5/16" S/S w/ 3/8" Hole



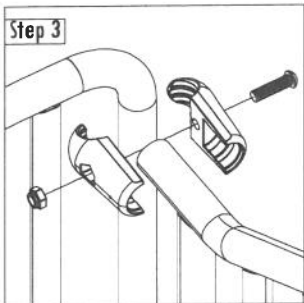
DECK HOLES USED



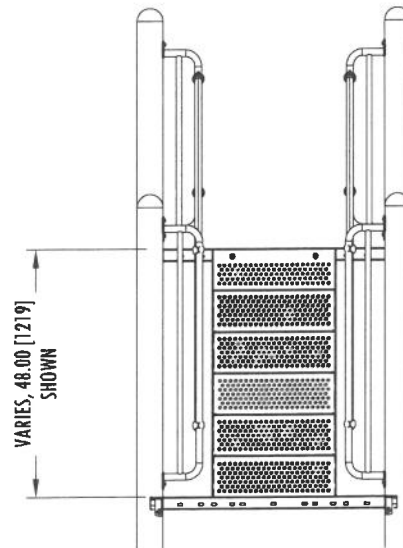
1" Button Cap, Flat Washer (x8)



1" Button Cap, Flat Washer, Locking Flange Nut (x4)



1-1/2" Button Cap Torx, Locknut (x8)

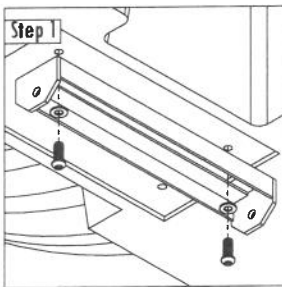
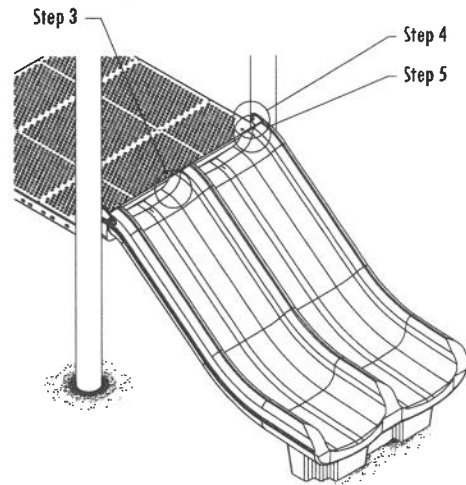
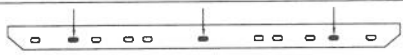


Parts List

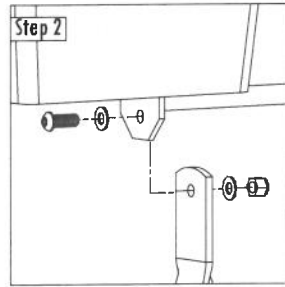
- 1 PSL01301 3' Double Tot Poly Slide
- 1 GND00100 Universal Ground Leg Mount
- 2 GND00200 Universal Ground Leg
- 2 SHP05000 Plastic String Guard

- 2 1C-0512 - Carriage Bolt 5/16" x 3"
- 6 2T-0604 - Button Cap Torx w/ Pin 3/8" x 1"
- 3 2T-0608 - Button Cap Torx w/ Pin 3/8" x 2"
- 2 4C-0500 - Camtainer Nut 5/16"
- 2 4L-0600 - Lock Nut w/ Nylon Locking 3/8"
- 11 5F-0500 - Flat Washer 5/16" S/S w/ 3/8" Hole

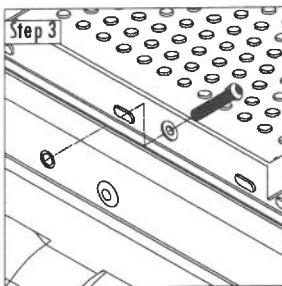
DECK HOLES USED



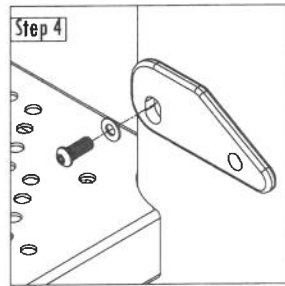
1" Button Cap Torx, Flat Washer (x2)



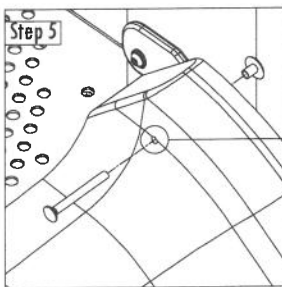
1" Button Cap Torx, Flat Washer, Lock Nut (x2)



2" Button Cap Torx, Flat Washer (x3)

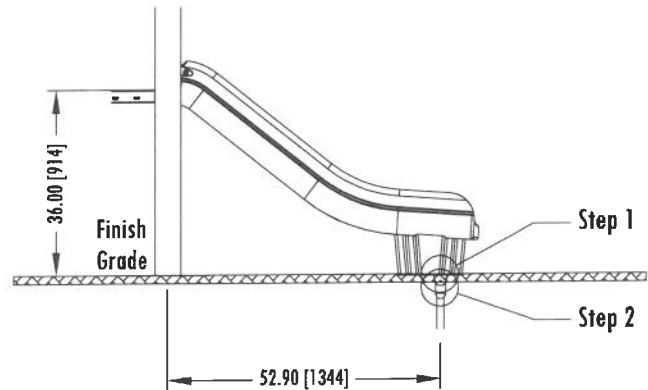
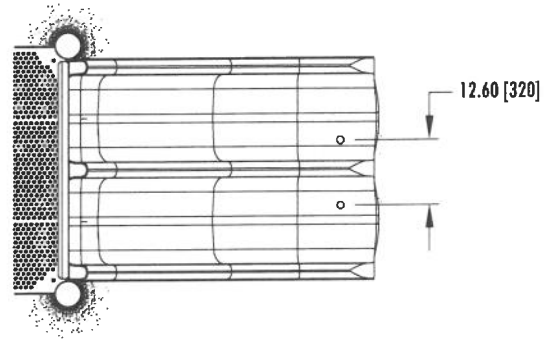


1" Button Cap Torx, Flat Washer (x2)



3" Carriage Bolt, Camtainer Nut (x2)

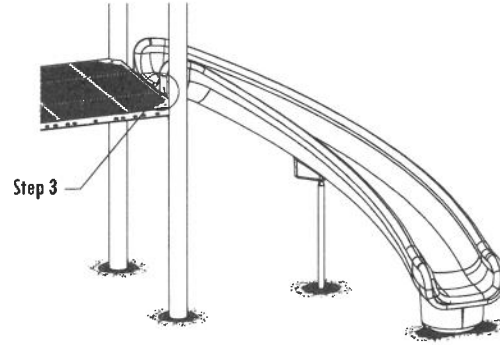
Drill 7/16" Hole Through Slide
(Drill From Outside In, Using String Guard as Guide)



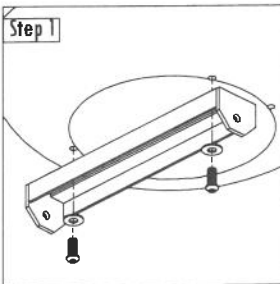
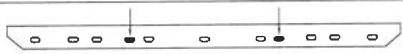
Parts List

- 1 PSL03300 The Big Curve Twister Slide 5'
- 1 GND00100 Universal Ground Leg Mount
- 2 GND00200 Universal Ground Leg
- 1 GND01500 Slide Mid Support Mount
- 1 GND08300 Twister Slide Mid Support Leg

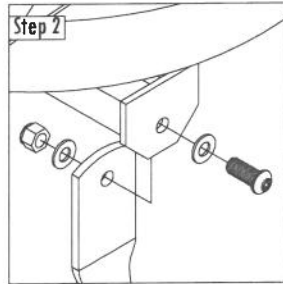
- 7 2T-0604 - Button Cap Torx w/ Pin 3/8" x 1"
- 2 2T-0608 - Button Cap Torx w/ Pin 3/8" x 2"
- 3 4L-0600 - Lock Nut w/ Nylon Locking 3/8"
- 12 5F-0500 - Flat Washer 5/16" S/S w/ 3/8" Hole



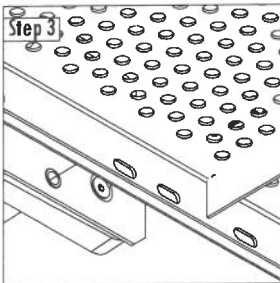
DECK HOLES USED



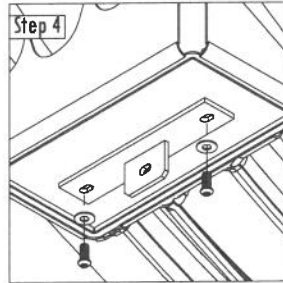
1" Button Cap Torx, Flat Washer (x2)



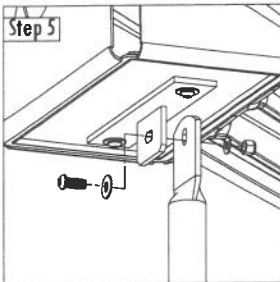
1" Button Cap Torx, Flat Washers, Lock Nut (x2)



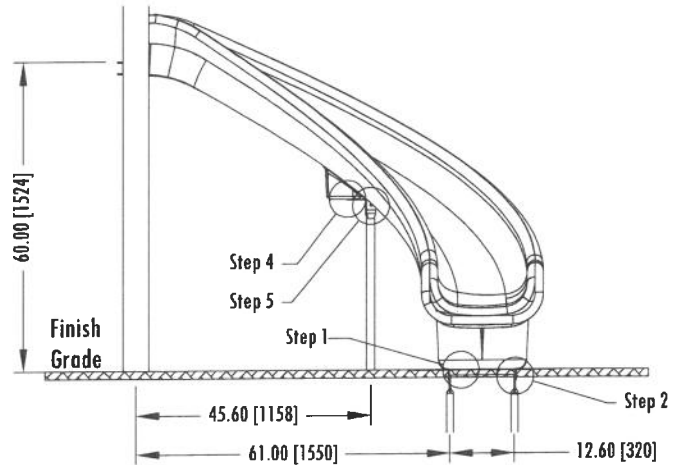
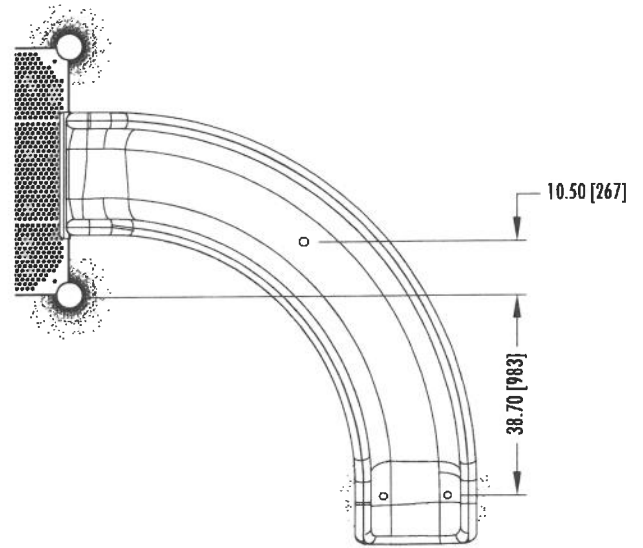
2" Button Cap Torx, Flat Washer (x2)



1" Button Cap Torx, Flat Washer (x2)



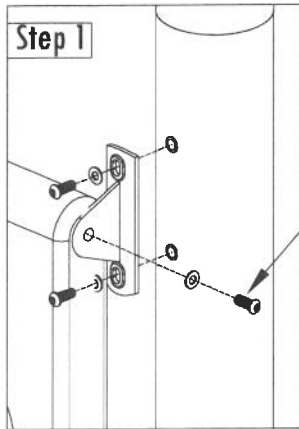
1" Button Cap Torx, Flat Washers, Lock Nut



Parts List

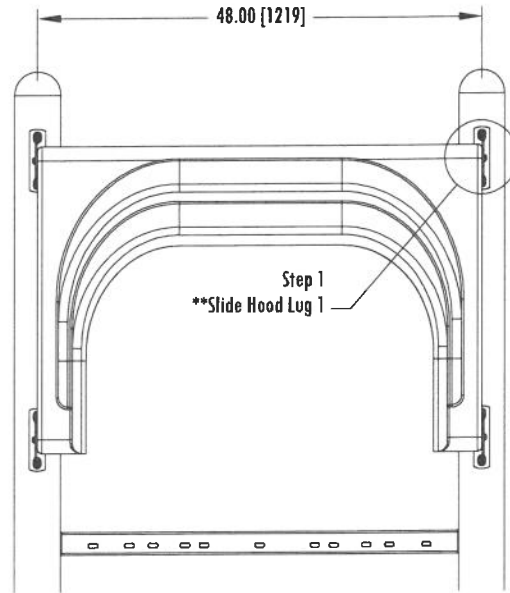
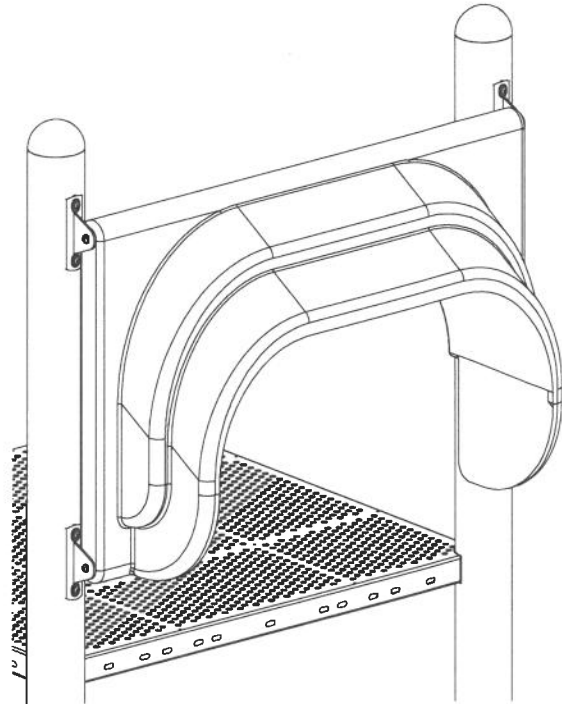
- 4 BRK12800 Slide Hood Lug 1
- 1 PPN00800 B5 Double Slide Hood

- 8 2T-0604 - Button Cap Torx w/ Pin 3/8" x 1"
- 4 2T-0606z - Button Cap Torx w/ Pin 3/8" x 1-1/2" (no locktite)
- 12 5F-0500 - Flat Washer 5/16" S/S w/ 3/8" Hole



NO LOCKTITE

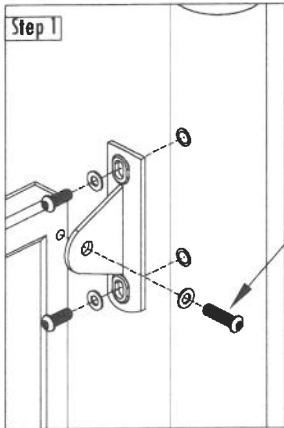
- 1" Button Cap, Flat Washer (x8)
- 1-1/2" Button Cap, Flat Washer (x4)



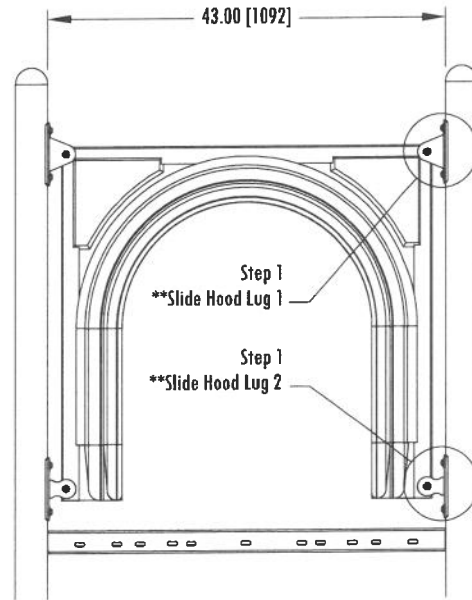
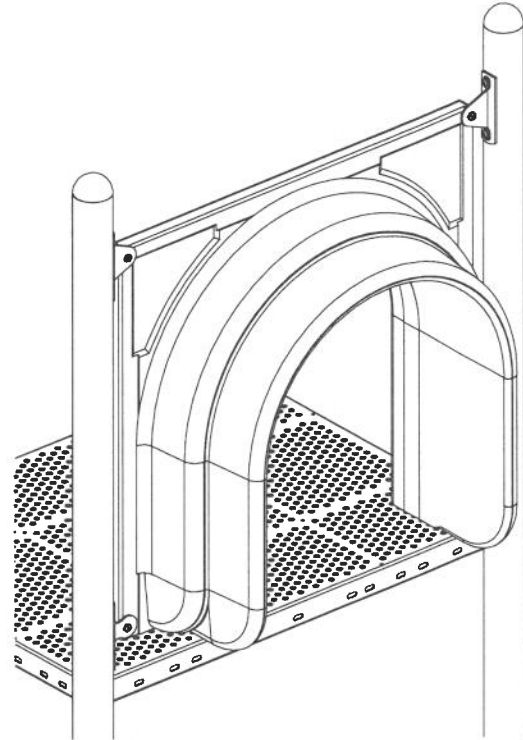
Parts List

- 2 BRK12800 Slide Hood Lug 1
- 2 BRK12800 Slide Hood Lug 2
- 1 PPN00700 B4 B5 Single Slide Hood

- 8 2T-0604 - Button Cap Torx w/ Pin 3/8" x 1"
- 4 2T-0606z - Button Cap Torx w/ Pin 3/8" x 1-1/2" (no locktite)
- 12 5F-0500 - Flat Washer 5/16" S/S w/ 3/8" Hole

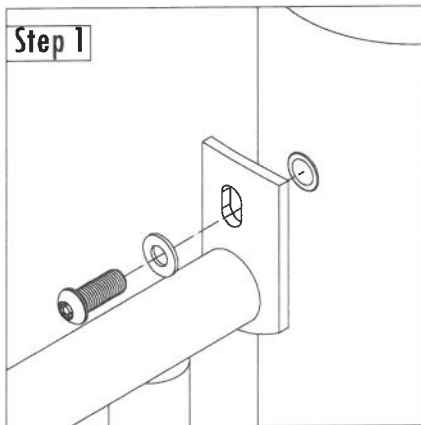
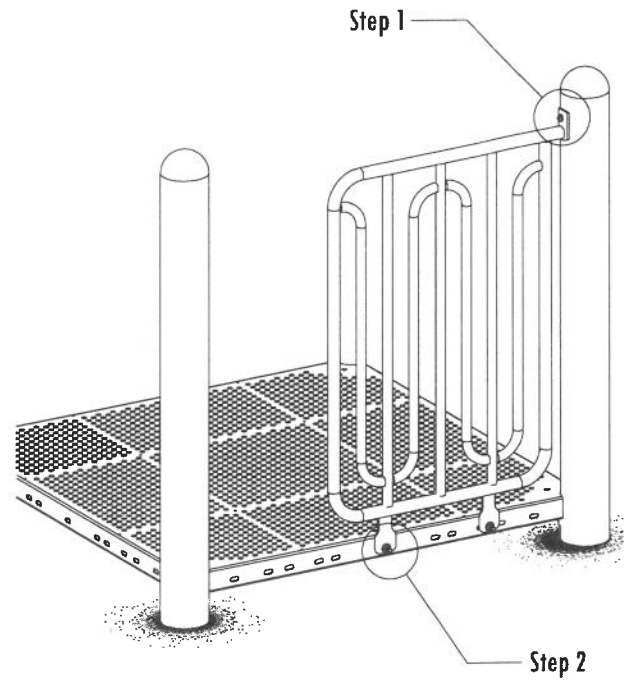


1" Button Cap, Flat Washer (x8)
1-1/2" Button Cap, Flat Washer (x4)

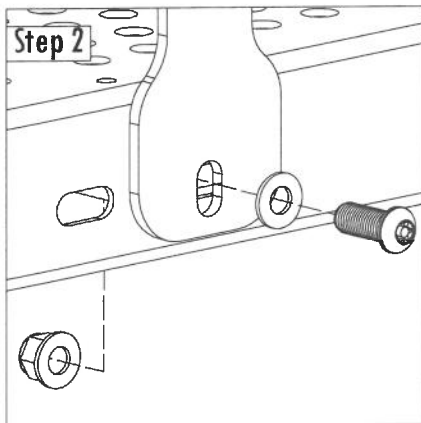


Parts List

- 1 BPN01200 Open Rail
- 3 2T-0604 - Button Cap Torx w/ Pin 3/8" x 1"
- 2 4N-0600 - Locking Flange Nut 3/8"
- 3 5F-0500 - Flat Washer 5/16" S/S w/ 3/8" Hole



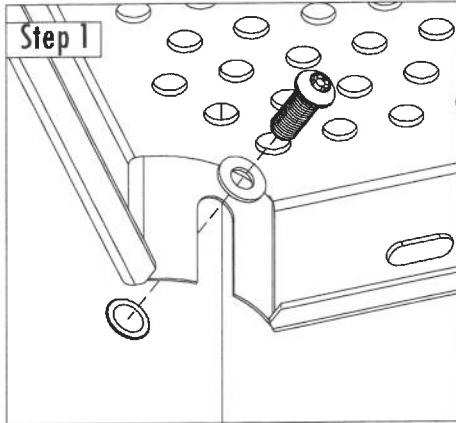
1" Button Cap, Flat Washer (x1)



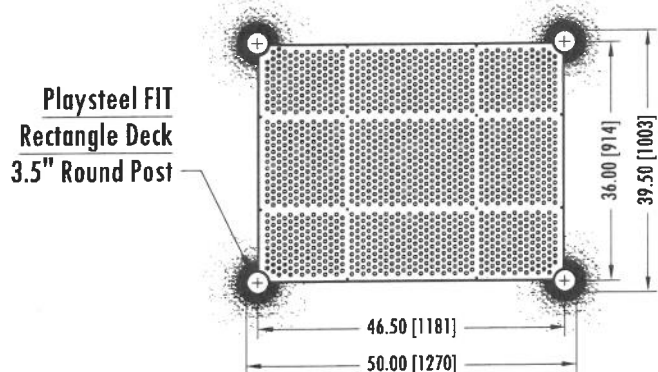
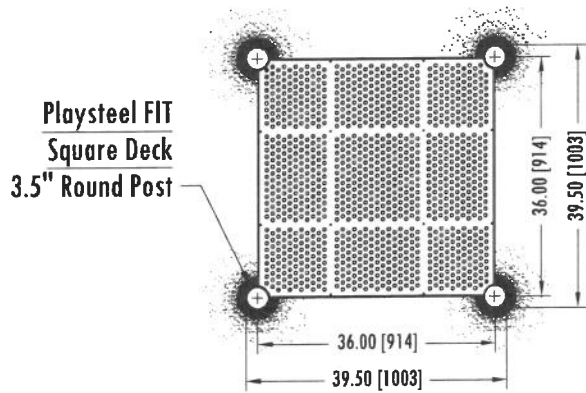
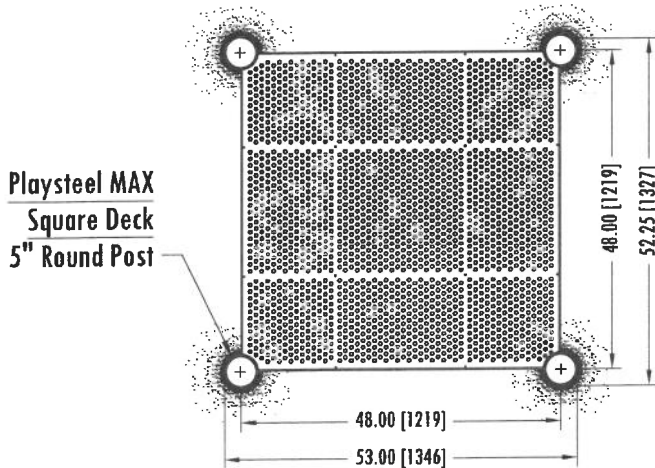
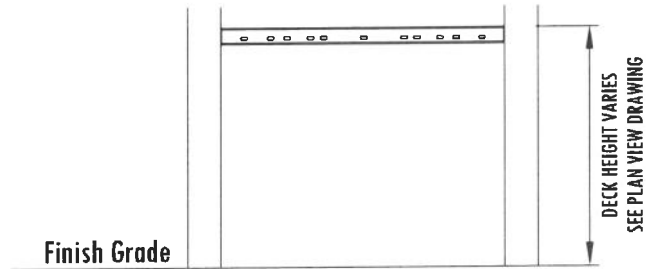
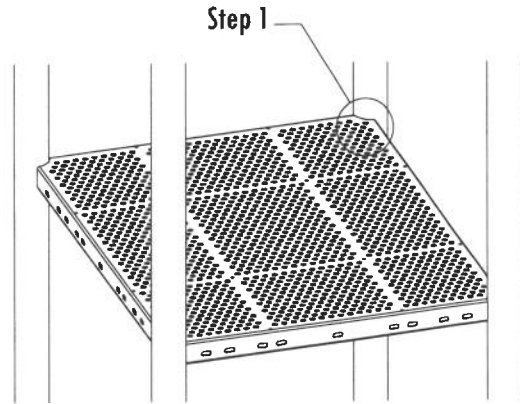
1" Button Cap, Flat Washer, Locking Flange Nut (x2)

Parts List

1		Deck
4	2T-0604	Button Cap Torx w/ Pin 3/8" x 1"
4	5F-0500	Flat Washer 5/16" S/S w/ 3/8" Hole

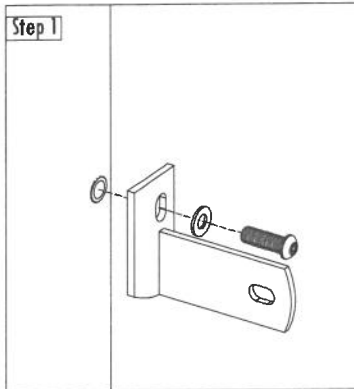
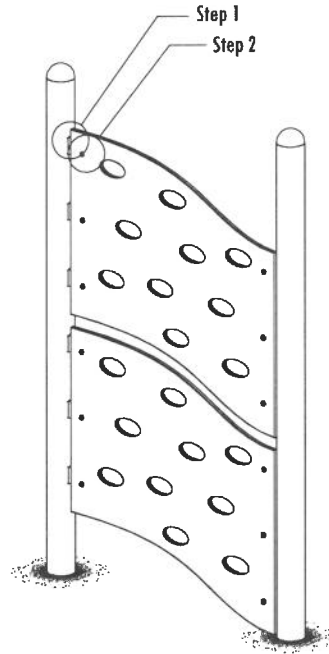


1" Button Cap, Flat Washer (x4)

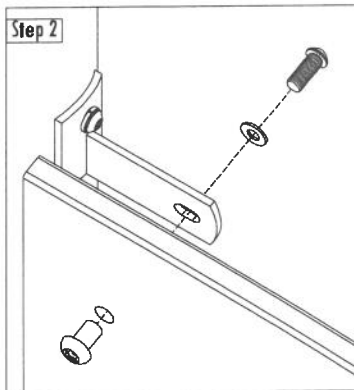


Parts List

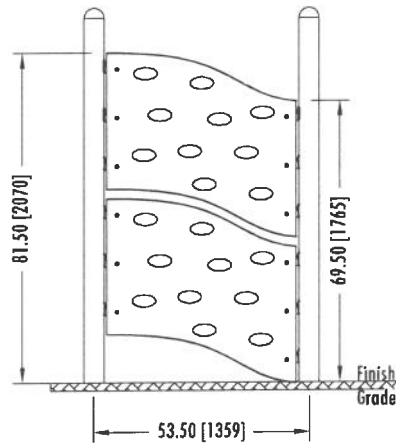
2		Double Wave Climber Panel
12	BRK00400	Sheet Plastic Bracket
24	2T-0604	Button Cap Torx w/ Pin 3/8" x 1"
12	4R-0603	Barrel Nut 3/8" x 3/4"
24	5F-0600	Flat Washer 3/8"



1" Button Cap Torx, Flat Washer (x12)

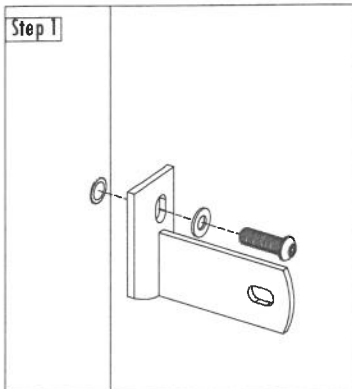


1" Button Cap Torx, Flat Washer,
Barrel Nut (x12)

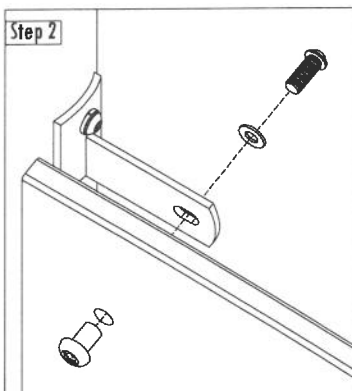


Parts List

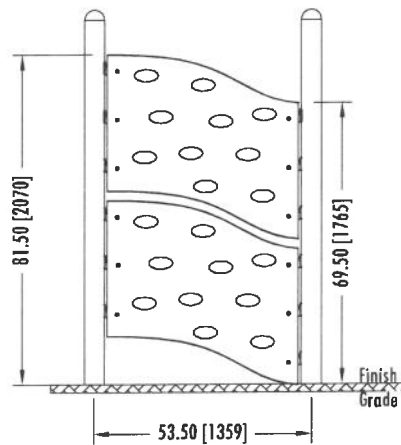
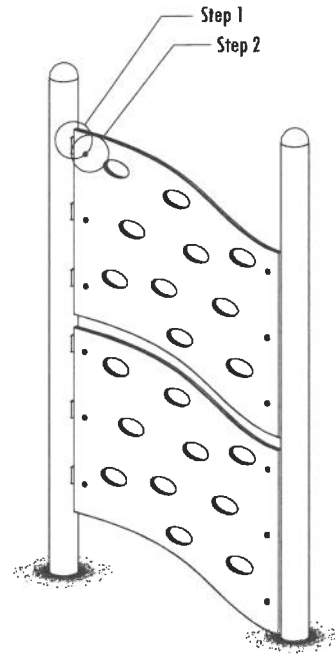
2		Double Wave Climber Panel
12	BRK00400	Sheet Plastic Bracket
24	2T-0604	Button Cap Torx w/ Pin 3/8" x 1"
12	4R-0603	Barrel Nut 3/8" x 3/4"
24	5F-0600	Flat Washer 3/8"



1" Button Cap Torx, Flat Washer (x12)



1" Button Cap Torx, Flat Washer, Barrel Nut (x12)



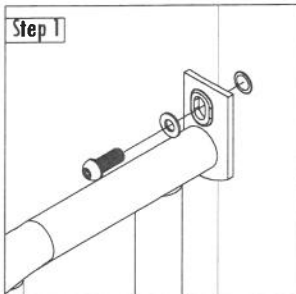
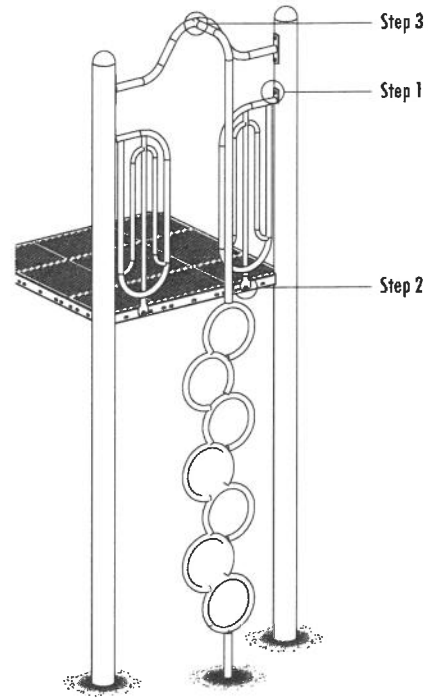
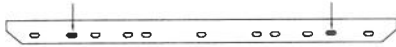
This Instruction Applies To The Following Modules :

- CB443 Ring Climber 3'
- CB444 Ring Climber 4'
- CB445 Ring Climber 5'
- CB446 Ring Climber 6'
- CB447 Ring Climber 7'
- CB448 Ring Climber 8'

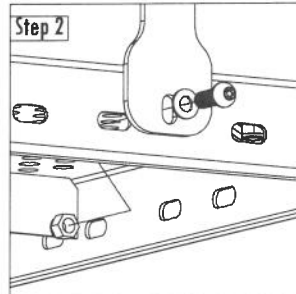
Parts List

- 1 Ring Climber
 - 1 Pole Connector
 - 2 Safety Railing
-
- 8 2T-0604 - Button Cap Torx w/ Pin 3/8" x 1"
 - 1 2T-0610 - Button Cap Torx w/ Pin 3/8" x 2-1/2"
 - 2 4L-0600 - Lock Nut w/ Nylon Locking 3/8"
 - 11 5F-0500 - Flat Washer 5/16" S/S w/ 3/8" Hole

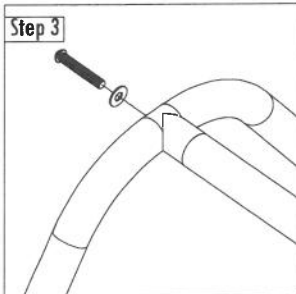
DECK HOLES USED



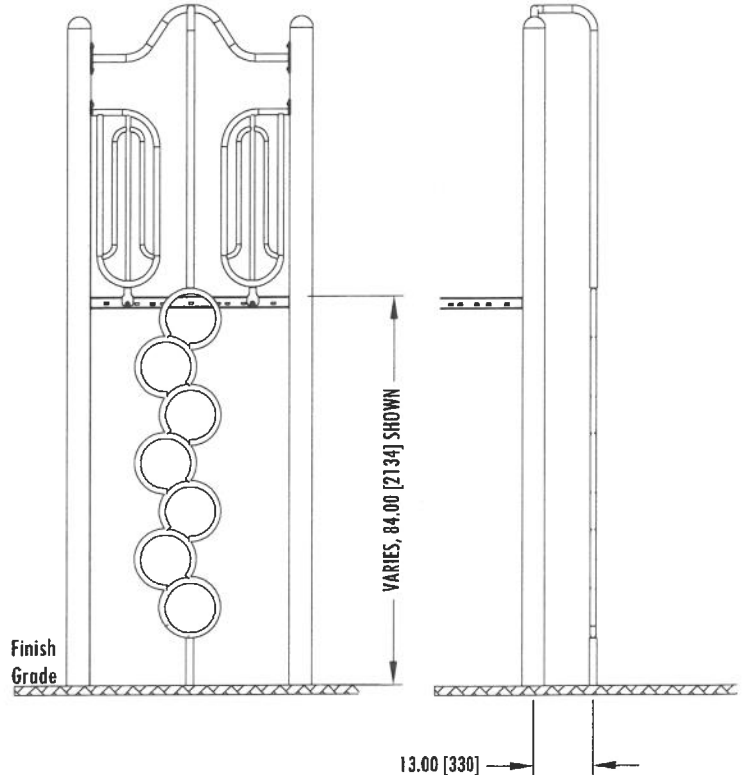
1" Button Cap Torx, Flat Washer (x6)



1" Button Cap Torx, Flat Washer, Lock Nut (x2)



2-1/2" Button Cap Torx, Flat Washer (x1)



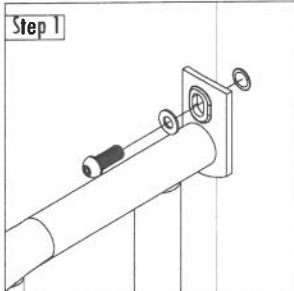
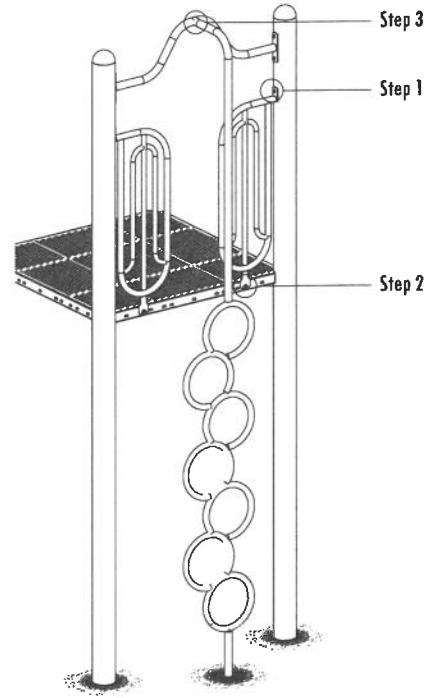
This Instruction Applies To The Following Modules :

- CB443 Ring Climber 3'
- CB444 Ring Climber 4'
- CB445 Ring Climber 5'
- CB446 Ring Climber 6'
- CB447 Ring Climber 7'
- CB448 Ring Climber 8'

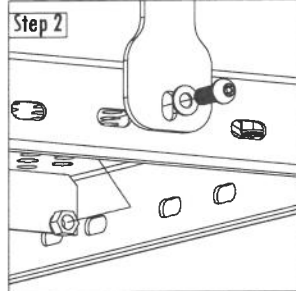
Parts List

- 1 Ring Climber
 - 1 Pole Connector
 - 2 Safety Railing
-
- 8 2T-0604 - Button Cap Torx w/ Pin 3/8" x 1"
 - 1 2T-0610 - Button Cap Torx w/ Pin 3/8" x 2-1/2"
 - 2 4L-0600 - Lock Nut w/ Nylon Locking 3/8"
 - 11 5F-0500 - Flat Washer 5/16" S/S w/ 3/8" Hole

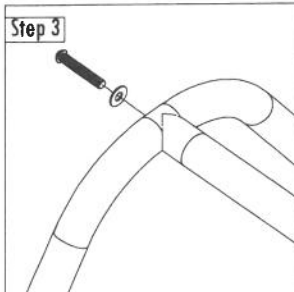
DECK HOLES USED



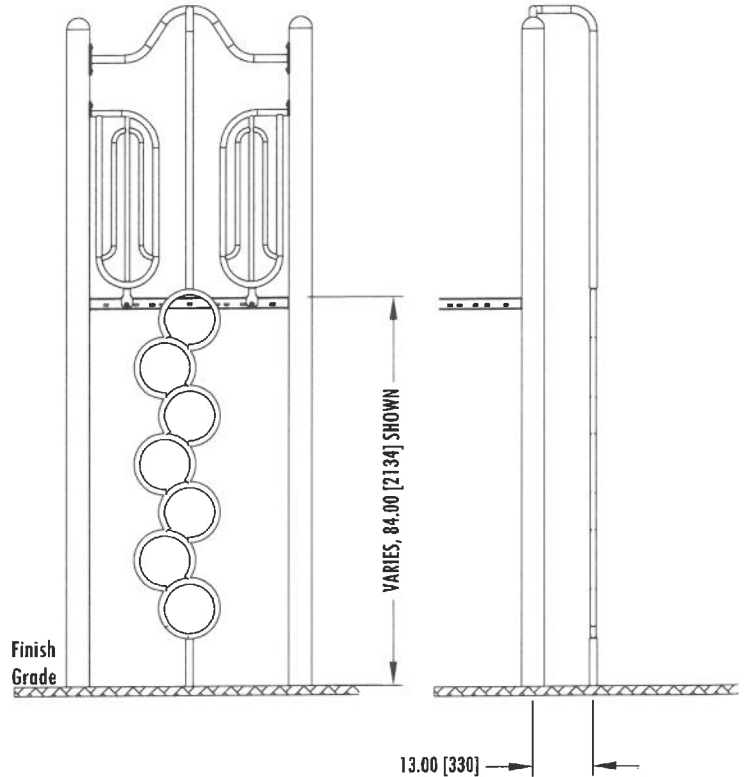
1" Button Cap Torx, Flat Washer (x6)



1" Button Cap Torx, Flat Washer, Lock Nut (x2)



2-1/2" Button Cap Torx, Flat Washer (x1)

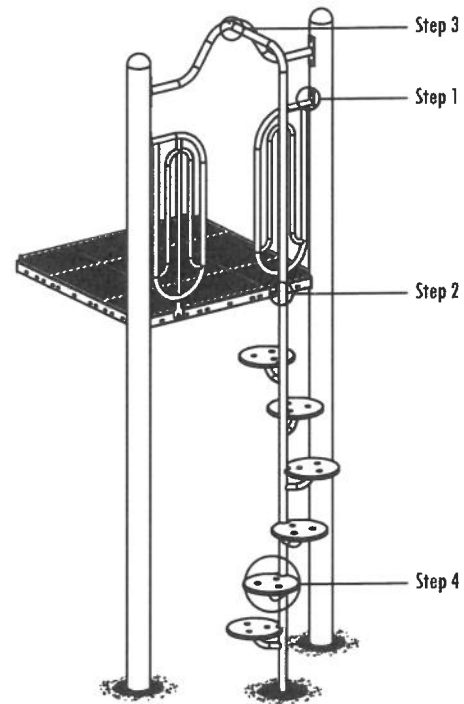


This Instruction Applies To The Following Modules :

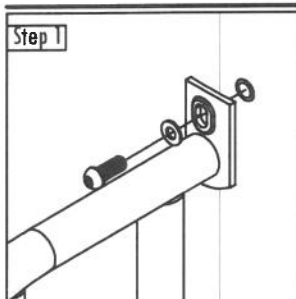
- CB313 Space Walk 3'
- CB314 Space Walk 4'
- CB315 Space Walk 5'
- CB316 Space Walk 6'
- CB317 Space Walk 7'

Parts List

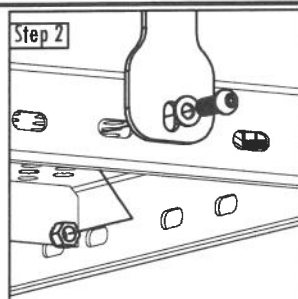
- 1 Space Walk
- 2-6 Space Walk Step
- 1 Pole Connector
- 2 Safety Railing
- 8 2T-0604 - Button Cap Torx w/ Pin 3/8" x 1"
- 6-18 2T-0604 - Button Cap Torx w/ Pin 3/8" x 1-1/2"
- 1 2T-0610 - Button Cap Torx w/ Pin 3/8" x 2-1/2"
- 8-20 4L-0600 - Lock Nut w/ Nylon Locking 3/8"
- 23-47 5F-0500 - Flat Washer 5/16" S/S w/ 3/8" Hole



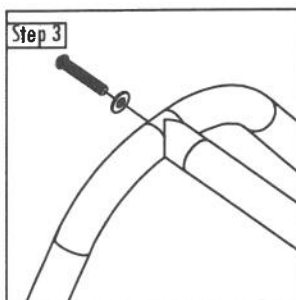
DECK HOLES USED



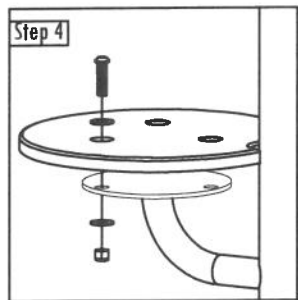
1" Button Cap Torx, Flat Washer (x6)



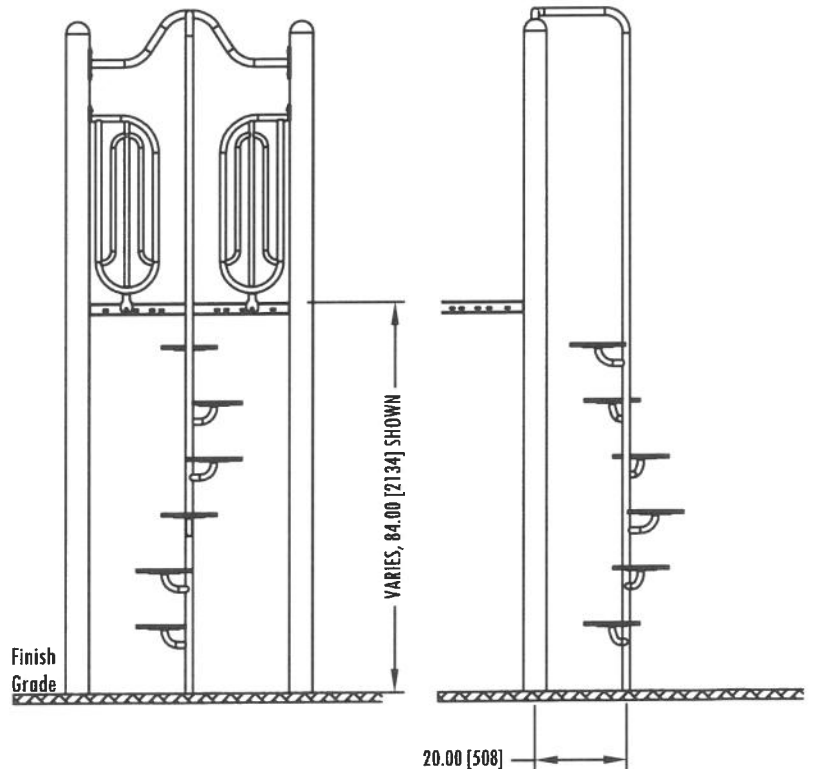
1" Button Cap Torx, Flat Washer, Lock Nut (x2)



2-1/2" Button Cap Torx, Flat Washer (x1)



1-1/2" Button Cap Torx, Flat Washer, Lock Nut (x2)



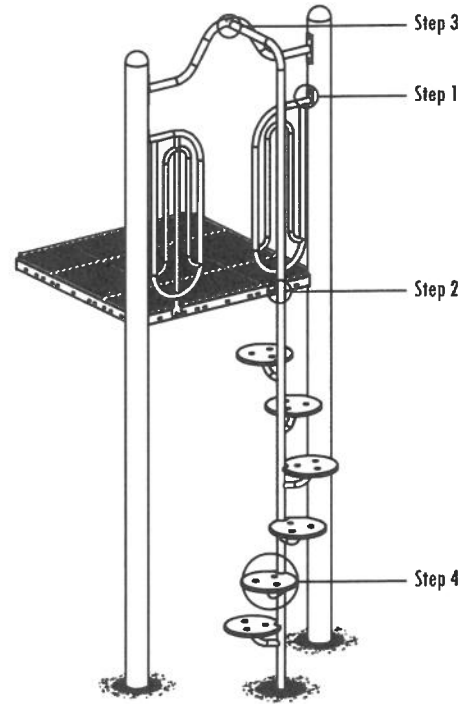
This Instruction Applies To The Following Modules :

- CB313 Space Walk 3'
- CB314 Space Walk 4'
- CB315 Space Walk 5'
- CB316 Space Walk 6'
- CB317 Space Walk 7'

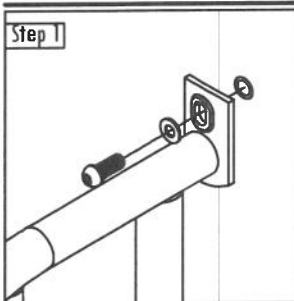
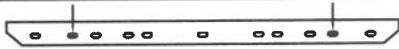
Parts List

- 1 Space Walk
- 2-6 Space Walk Step
- 1 Pole Connector
- 2 Safety Railing

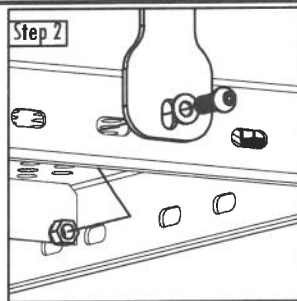
- 8 2T-0604 - Button Cap Torx w/ Pin 3/8" x 1"
- 6-18 2T-0604 - Button Cap Torx w/ Pin 3/8" x 1-1/2"
- 1 2T-0610 - Button Cap Torx w/ Pin 3/8" x 2-1/2"
- 8-20 4L-0600 - Lock Nut w/ Nylon Locking 3/8"
- 23-47 5F-0500 - Flat Washer 5/16" S/S w/ 3/8" Hole



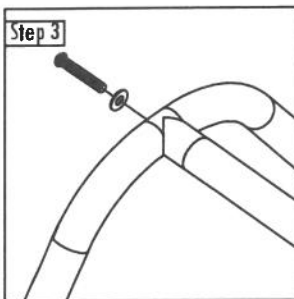
DECK HOLES USED



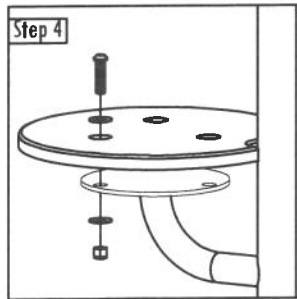
1" Button Cap Torx, Flat Washer (x6)



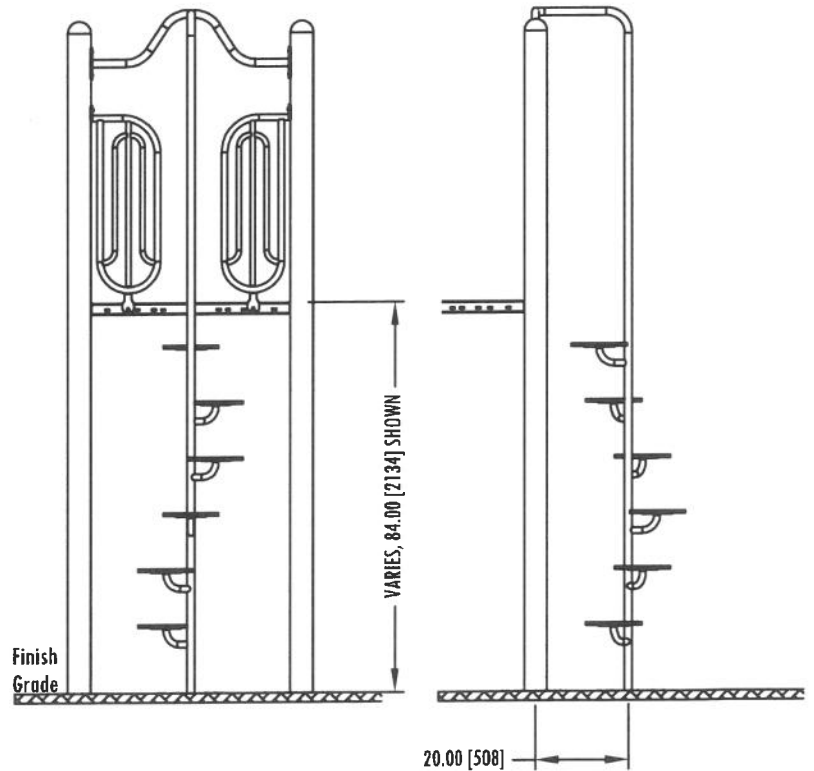
1" Button Cap Torx, Flat Washer, Lock Nut (x2)



2-1/2" Button Cap Torx, Flat Washer (x1)



1-1/2" Button Cap Torx, Flat Washer, Lock Nut (x2)



OFFICE USE ONLY

PLAYSTEEL SQ
N/A

PLAYSTEEL MAX
B5-CB313-01
B5-CB314-01
B5-CB315-01
B5-CB316-01
B5-CB317-01

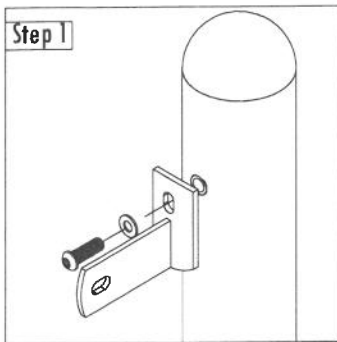
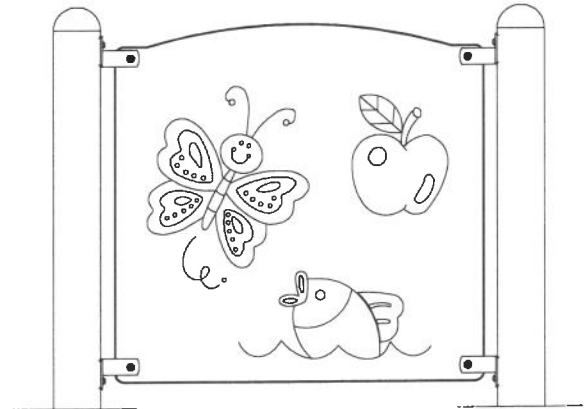
PLAYSTEEL FIT
B3-CB313-01 B4-CB313-01
B3-CB314-01 B4-CB314-01
B3-CB315-01 B4-CB315-01
B3-CB316-01 B4-CB316-01
B3-CB317-01 B4-CB317-01

ORBIS
N/A

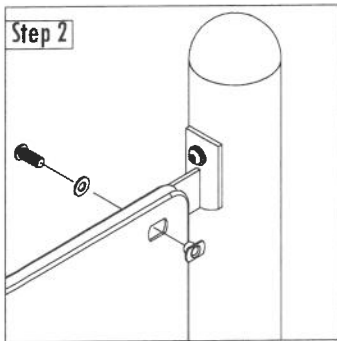
PLAYTOTS
N/A

Parts List

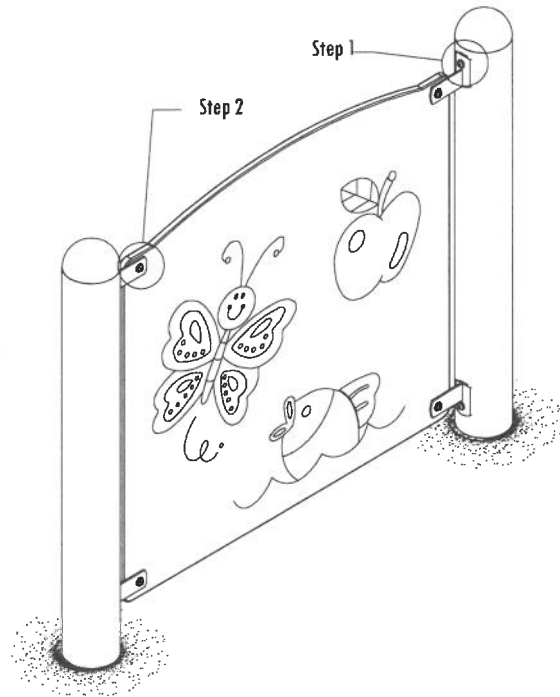
- 1 Sheet Plastic Panel
- 4 BRK00400 Sheet Plastic Bracket
- 8 2T-0604 - Button Cap Torx w/ Pin 3/8" x 1"
- 4 4D-0600 - T Nut 3/8"
- 8 5F-0500 - Flat Washer 5/16" S/S w/ 3/8" Hole



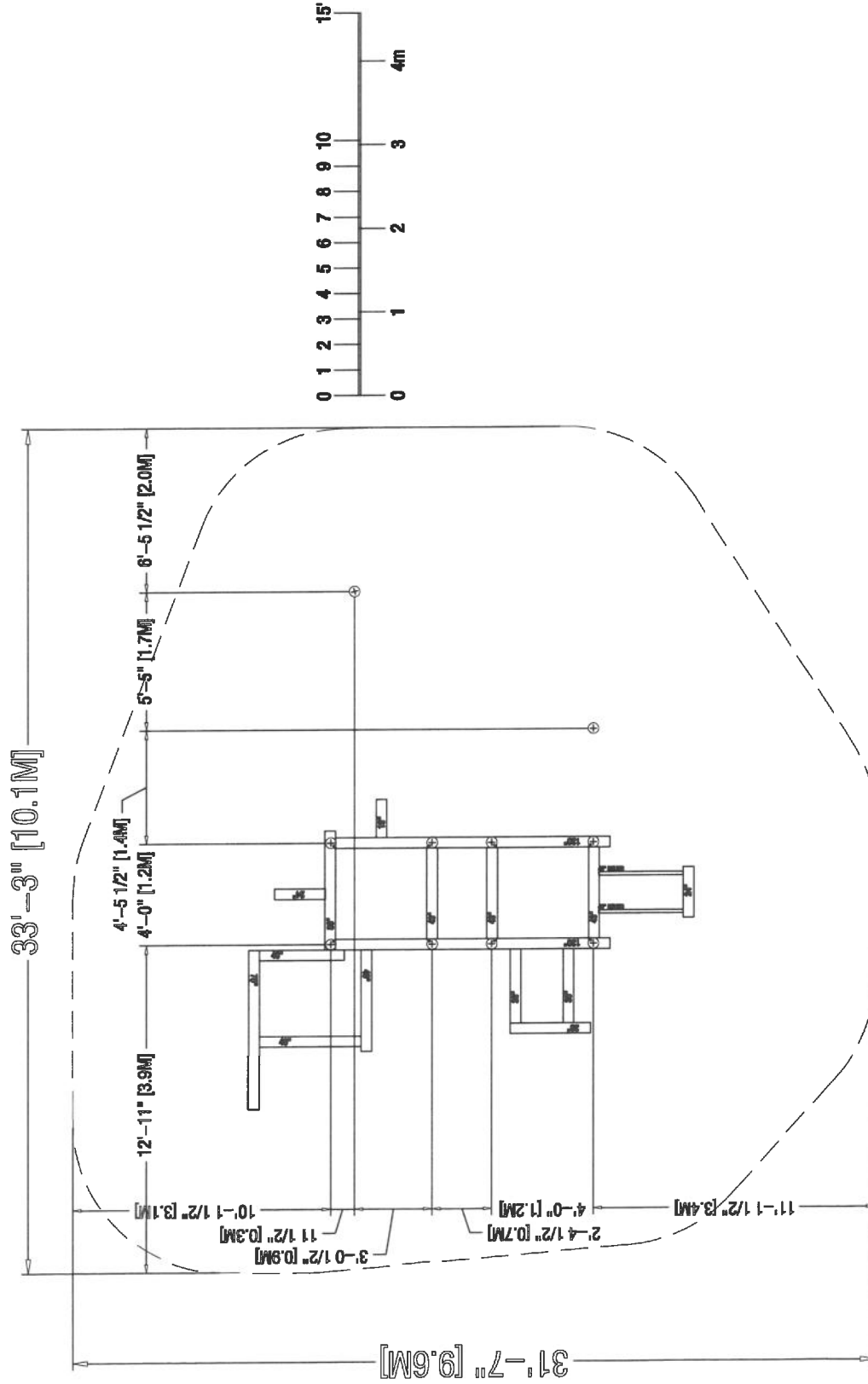
1" Button Cap, Flat Washer (x4)



1" Button Cap, Flat Washer, T Nut (x4)



B5-AP002-01	B5-AP017-01	B5-AP036-01	B5-AP067-01	B5-AP084-01	B5-AP111-01	B5-AP129-00	B5-AP146-01	B5-AP156-00
B5-AP004-01	B5-AP019-01	B5-AP037-01	B5-AP068-01	B5-AP086-01	B5-AP114-01	B5-AP130-01	B5-AP150-00	B5-AP157-00
B5-AP006-01	B5-AP021-01	B5-AP058-01	B5-AP069-01	B5-AP093-00	B5-AP116-01	B5-AP132-01	B5-AP151-00	B5-AP163-00
B5-AP010-01	B5-AP023-01	B5-AP059-01	B5-AP072-01	B5-AP096-01	B5-AP118-01	B5-AP139-01	B5-AP152-00	
B5-AP013-01	B5-AP027-01	B5-AP062-01	B5-AP078-01	B5-AP104-01	B5-AP119-01	B5-AP143-01	B5-AP153-00	
B5-AP015-01	B5-AP034-01	B5-AP064-01	B5-AP080-01	B5-AP108-01	B5-AP121-01	B5-AP145-01	B5-AP154-00	



Channel Layout Drawing

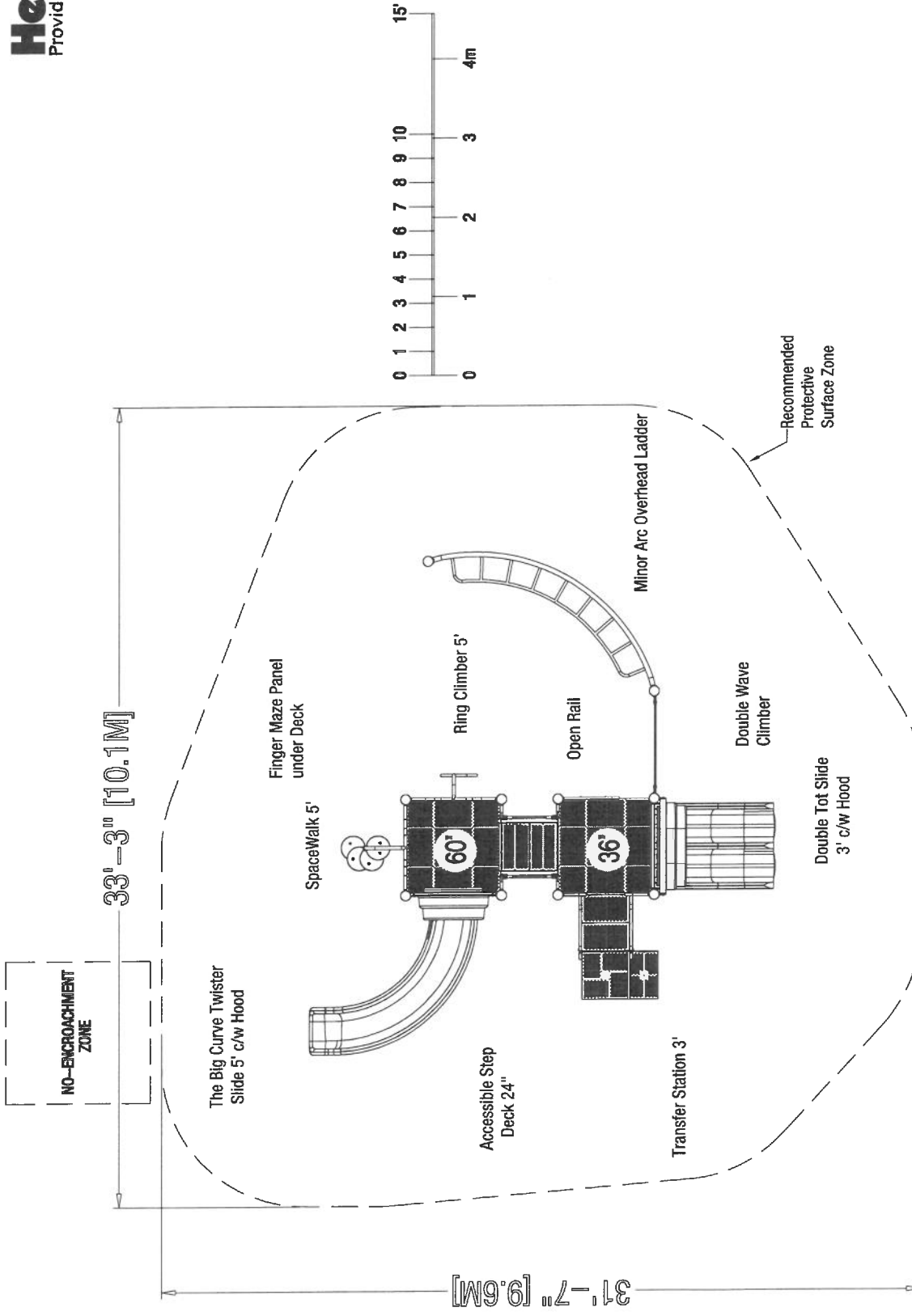
B504299R0

Henderson Recreation Equipment Ltd.
 PO Box 68, 11 Gilbertson Drive
 Simcoe, ON, Canada, N3Y 4K8
 T. 1.800.265.5462
 F. 519.426.9360
 www.hendersonplay.ca

Installation Type | Onground
 Depth of Surfacing | 12"

WARNING
 Installation Over A Hard Surface Such
 As Concrete, Asphalt, Or Packed Earth
 May Result In Serious Injury Or Death
 From Falls.

Henderson®
 Providing Playground Fun



Model No. B504299R0

Henderson Recreation Equipment Ltd.
PO Box 68, 11 Gilbertson Drive
Simcoe, ON, Canada, N5Y 4K3
T: 1.800.265.5462
F: 519.426.9380
www.hendersonplay.ca

Salesperson |
Drawn By |
Date Drawn |
Revised By |
Revision Date |

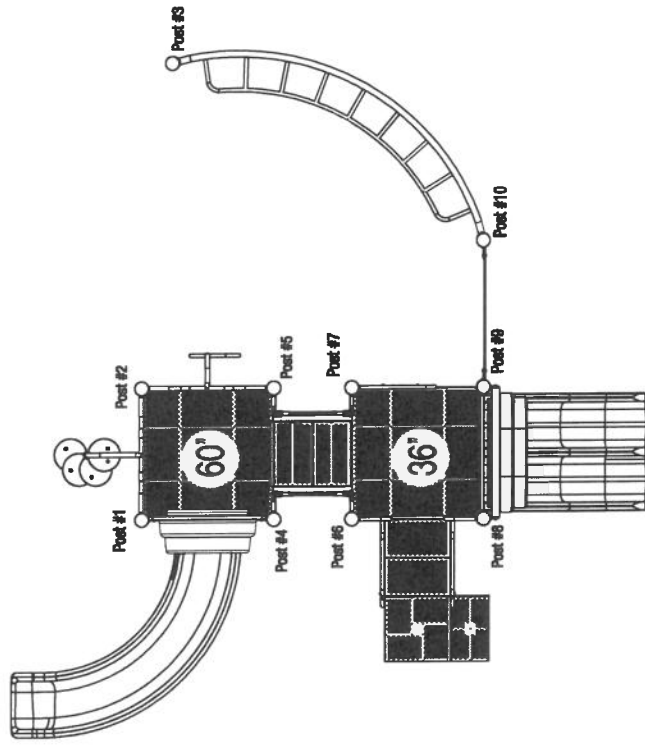
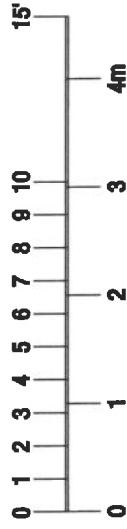
Product Line | Playsteel MAX
Standard Compliance | ASTM F 1487
Best User Age | 2 to 12 yrs.
Protective Surfacing Type |
Accessibility |
Number of Children | 23
Fall Height |

Border Area |
Border Perimeter |
Installation Type |

WARNING: All play equipment shall have a protective surfacing area that consists of an adequate free fall height to meet the critical fall heights as specified by the CAN/CSA Z614, ASTM F1487 and the U.S. Consumer Product Safety Commission.

33'-3" [10.1M]

31'-7" [9.6M]



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 www.hendersonplay.ca

Post Numbers Drawing

B504299R0

WARNING
 Individuals Over A Height Exceeding 6'6"
 Are Cautioned Against Use. Excessive Use
 May Result In Serious Injury Or Death
 From Falls.

Henderson®
 Providing Playground Fun

