

<b>PLAYCRAFT SYSTEMS®</b>	<b>TOT</b>
<b>INSTALLATION MANUAL</b>	6/9/20

<b>PLAYCRAFT SYSTEMS TODDLER SERIES</b>	<b>PROJECT NAME</b>

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<b>TODDLER SERIES ASSEMBLY INSTRUCTIONS INCLUDED</b>		
<input checked="" type="checkbox"/>	<b>ACTIVITY</b>	<b>SECTION</b>
<input type="checkbox"/>	Toddler Bridge	PC-3181
<input type="checkbox"/>	Toddler Learning Center	PC-3182
<input type="checkbox"/>	Toddler Climb N' Slide	PC-3183

**IMPORTANT! THIS MANUAL CONTAINS:**

- General Installation Guidelines
- Maintenance & Safety Information
- Construction Views



**WARNING:** Read all instructions thoroughly before installation. Improperly assembled playground equipment can present a serious safety hazard. Appropriate impact attenuating safety surfacing material is required under and around all playground equipment and must be maintained.

If you have any questions during assembly, please contact your Playcraft Representative or:

**Playcraft Systems®**  
 123 North Valley Road, Grants Pass, OR 97526  
 Phone: 800-333-8519 Fax: 541-955-6130

# GENERAL INSTALLATION GUIDELINES

# TOT - 01

## TOT - 01.1 PLEASE READ THE FOLLOWING VERY CAREFULLY BEFORE INSTALLATION

1	<b>IMPORTANT:</b> Due to the wide variety, modularity, and flexibility of our products, we found it necessary to publish these general installation guidelines. These guidelines are intended for use by experienced playground equipment installers and/or general contractors skilled in assembly and installation of playground equipment. As with any project, general construction knowledge and professional judgment may be required. If any questions or concerns arise during the installation or maintenance of your equipment, please contact the factory and ask to speak to a customer service representative at <b>1-800-333-8519</b> .
2	As an installer of Playcraft Playground Equipment you are responsible for understanding the recommendations for surfacing and providing an appropriate impact attenuating safety surfacing material. The owner of the playground equipment is responsible for maintaining an appropriate level of impact attenuating safety surfacing material under and around all playground equipment.
3	<b>ATTENTION INSTALLER:</b> Upon completion of project, ensure that a copy of the Playground Equipment Manual and Maintenance Kit with all of its contents has been given to the owner of this playground equipment as a product and safety reference and as guidelines for preventative maintenance. <b>Please make it clear to the owner that the Playground Equipment Manual and Maintenance Kit are to be kept on hand at the playground site at all times.</b>
4	Read all instructions thoroughly before installation. Improperly assembled playground equipment can present a serious safety hazard. An appropriate impact attenuating safety surfacing material is required under and around all play structures and must be maintained.

## TOT - 01.2 RECOMMENDED TOOLS

### You may need the following tools for installation:

Adjustable End Wrenches	Hacksaw	Metal File	Shovel / Spade
Carpenter's Level	Hammer	Post Hole Digger	Tape Measure
Combination Wrenches	Hex Wrenches	Ratchet Set	Wheelbarrow
Drill & Bits	Impact Driver	Rubber Mallet	
Electric Extension Cord	Liquid Thread Lock (LOCTITE®)	Safety Glasses	

## TOT - 01.3 TIGHTENING TORQUE FOR HARDWARE (SCREWS, BOLTS AND NUTS)

Tighten all screws, bolts, and nuts snugly. After fasteners are snugly tightened, turn nuts and screws an additional one-half turn. **IMPORTANT:** Set screws should be turned an additional full turn after snug tightening. Once equipment or components are fully assembled, with hardware tightened/torqued, any excess threads (more than two) extending past the nut should be cut off and filed smooth. **Use liquid thread lock (such as LOCTITE® Threadlocker) with all threaded hardware.**

**WARNING:** Liquid thread lock (prior to curing) helps to eliminate the common problem of "thread seizure" in stainless steel hardware by serving as a lubricant during assembly.

## TOT - 01.4 GENERAL INSTALLATION GUIDELINES

1	Before you begin, read completely through all instructions carefully.
2	Identify all structural components included with your order. Check parts against your packing slip located in the front pocket of the installation manual.
3	Refer to Section TOT - 02 for safe playground layout. Confirm that the equipment you purchased and its use zones will fit in your site. Site layout is a critical part of overall installation. A clear level site is required for proper installation.
4	While referring to the mounting diagram in Section TOT - 03 and top view(s) provided in the assembly instructions, identify each footing pier location and excavate each hole; one at a time and prior to assembly.

**IMPORTANT:** If soil conditions are loose or unstable, larger diameter footings are required. Inquire with local contractors for appropriate recommendations.

# GENERAL INSTALLATION GUIDELINES

# TOT - 01

## TOT – 01.4 GENERAL INSTALLATION GUIDELINES (CONTINUED)

5	Pour the concrete prior to assembly. All concrete must cure for at least 72 hours prior to being disturbed.
6	While referring to the following assembly instructions, erect the equipment (main structure first) and plumb and level as you proceed.
7	Do not fully tighten hardware until assembly is complete.
8	Affix Hard Surface Warning and Designed for Ages (age appropriate) warning labels to equipment. Labels should be placed in a conspicuous area such as by the main equipment access point. For replacement or additional warning labels, please contact customer service at 1-800-333-8519. <b>(Refer to Section TOT - 04.2 for label type and correct placement)</b>
9	<b>WARNING:</b> Never install play equipment over concrete, asphalt, or bare ground. Always use a resilient impact attenuating safety surfacing material.
10	<p>Do not let children play on or near play equipment until assembly and installation is complete and an impact attenuating safety surfacing material is installed.</p> <p>The impact attenuation of the protective surfacing under and around playground equipment should be rated to have a critical height value of at least the height of the highest accessible part of the equipment. To determine the highest accessible part of equipment, refer to the current publication of the CPSC, "Handbook for Public Playground Safety", Publication 325 at <a href="http://www.cpsc.gov">www.cpsc.gov</a>. The critical height for surfacing is to be rated in accordance with ASTM 1292, "A Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment". Contact the manufacturer of unitary surfacing materials (rubber matting) for the critical height ratings of their products.</p> <p>The entire area under and around all playground equipment must be covered with an impact attenuating safety surfacing material. Refer to the current publication of the CPSC, "Handbook for Public Playground Safety" for recommendations on the type and depth of the impact attenuating surfacing material.</p> <p><b>For a copy of the current publication of the CPSC "Handbook for Public Playground Safety"</b> <b>Write To:</b> U.S. Consumer Product Safety Commission      <b>Call Toll Free:</b> 1-800-638-2772 Office of Information and Public Affairs      <b>Visit the C.P.S.C. web site:</b> <a href="http://www.cpsc.gov">www.cpsc.gov</a> Washington, D.C. 20207</p>
11	Good drainage around structural supports is important (i.e. at the end of slides) because they tend to become the lowest points and need the most active drainage. Inquire with local contractors for appropriate recommendations.
12	Many surfacing materials can become compacted due to weather and use, which reduces their impact attenuation. It is strongly recommended that the surfacing be checked weekly and material added or replaced as necessary.

## TOT – 01.5 SAFETY DURING INSTALLATION

1	After doing a layout of <b>all</b> footings and <b>before</b> digging footing holes, be sure to inquire about underground utilities that may exist. Call 811, a federally-mandated national "Call Before You Dig" phone number.
2	Do not leave the job site unattended without making sure that all fastening hardware on all main structures and components has been tightened. We suggest roping off construction areas and covering all holes that do not have a piece of equipment in them with plywood or other suitable material. <b>Ready or not, children will use unattended equipment.</b>
3	Due to the weight involved with the structure you have purchased, it is advisable that a party of two to four persons of average build assemble the structure.

# GENERAL SAFETY RECOMMENDATIONS

# TOT - 02

General safety recommendations applicable to the installation and maintenance of play equipment supplied by Krauss Craft, Inc.

## TOT - 02.1 USE ZONES

Use zones are the areas under and surrounding each piece of play equipment that must be covered by an appropriate impact attenuating safety surfacing material as described above.

The specific size of these use zones depends on the type of play equipment as follows:

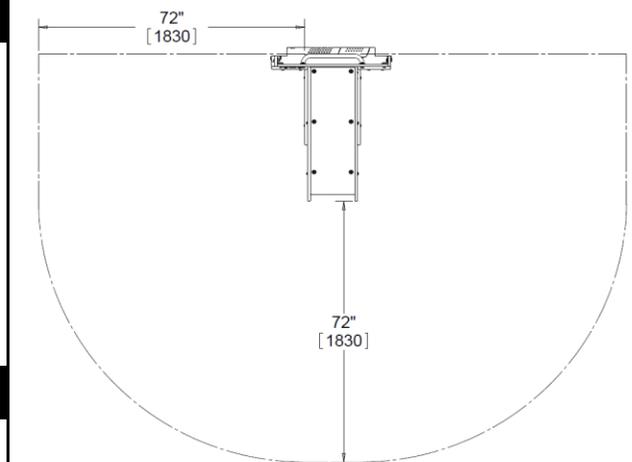
### TOT – 02.1.1 SLIDES

The minimum use zone for a slide is 72 in. or 1830 mm around the access component, platform, and slide chute sides.

The minimum lower exit end use zone for a slide is 72 in. or 1830 mm in the direction of decent.

**IMPORTANT:** No other play structure's use zone shall overlap the lower exit end use zone of a slide.

Refer to the ASTM F 2373, Section 11.5



### TOT – 2.1.2 ALL OTHER PLAY EQUIPMENT

Stationary play equipment use zones must extend at least 72 in. or 1830 mm in all directions from the equipment's perimeter.

## TOT – 02.2 SURFACES

All play equipment must be installed over an appropriate impact attenuating safety surfacing material. It is the responsibility of the playground designer, installer, and operator to ensure that the size, type, and depth of impact attenuating safety surfacing material used complies with the CPSC Handbook. This impact attenuating safety surfacing material must cover the entire use zone area to a depth appropriate for the height of play equipment. See the "Use Zones" section for specific dimensions for specific types of play equipment. Please refer to the CPSC "Handbook for Public Playground Safety", Publication 325 at [www.cpsc.gov](http://www.cpsc.gov) for more detailed information regarding these issues.

<b>APPROPRIATE</b>	<b>Unitary Safety Surfacing:</b> Pour-in-place rubber or rubber tiling.
<b>INAPPROPRIATE</b>	<b>Loose Fill Materials:</b> Bark nuggets, Wood Mulch, Wood Chips, Pea Gravel and Sand. <b>Other:</b> Turf, Undisturbed Natural Ground, Undisturbed Compacted Sand, Decomposed Granite, Asphalt, Concrete, or any other hard surfacing.

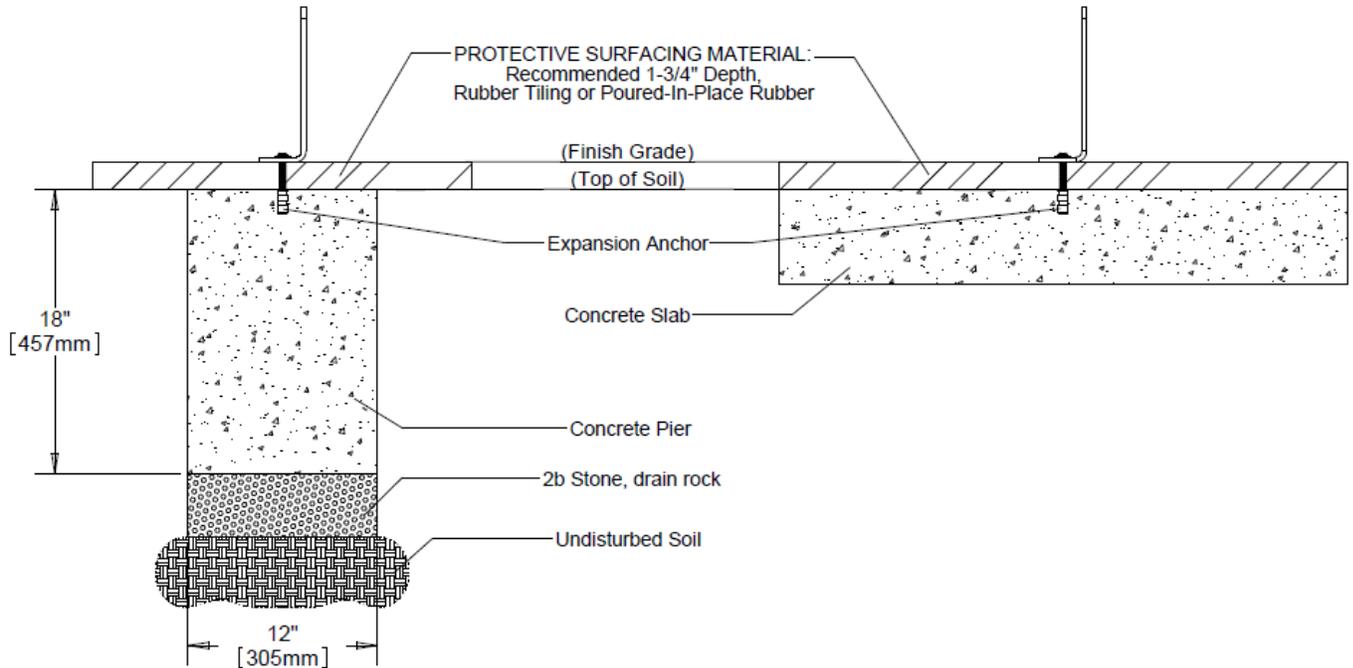
## TOT - 02.3 OTHER IMPORTANT ITEMS

During the installation and maintenance process, ensure that:

<b>1</b>	<b>WARNING:</b> Contact burn injuries can occur when metal play surfaces are located in direct sun. To avoid the risk of such burn injuries the United States Consumer Product Safety Commission recommends in its handbook for public playground safety that metal play surfaces such as stainless steel slides and bare or painted metal crawl tubes should be located and installed in shaded areas and out of direct sunlight. The proper location of metal play surfaces must be addressed during the play area planning process.
<b>2</b>	There are no exposed concrete footings to trip over or fall on. The top of all footings must be at or below the bottom of the layer of impact attenuating safety surfacing material.
<b>3</b>	All bolt threads protruding beyond the nut are cut and de-burred until end is smooth to the touch. Sharp edges and/or points of any kind must be eliminated. No more than two threads may be exposed beyond the end of the nut.
<b>4</b>	All bolts, screws, set screws, and/or other fasteners are securely tightened. Missing bolts, set screws or other fasteners must be replaced immediately.

# MOUNTING OPTIONS

TOT - 03



## TOT - 03.1 IMPORTANT ITEMS

1	Larger footings (more concrete) may be required due to weather conditions and poor, unstable, loose or granitic soil. Before changing footing dimensions we recommend that the footings be reviewed and approved by a registered engineer.
2	Base of all footings must be below the frost line. Determine depth of frost line for your area and adjust footing as required.
3	Krauss Craft, Inc. recommends the use of a unitary safety surfacing such as poured-in-place-rubber or rubber tiles at a minimum thickness of 1-3/4 in for fall heights up to 3 feet throughout the use zone. When choosing an appropriate impact attenuating safety surfacing material, check with material manufacturer for recommended depth/thickness.
4	This equipment is designed to be installed on a level site. If compressing soil, footings must be cast against undisturbed soil. All decks and play components must be plumb and level.

For more information, refer to the current publication of the USCPSC  
 "Handbook for Public Safety"

For a copy, write to:  
**U.S. Consumer Product Safety Commission**  
 Office of Information and Public Affairs  
 Washington, D.C. 20207  
 Or call  
**Toll-Free: 1-800-638-2772**  
**Website: www.cpsc.gov**

# SAFETY / WARNING LABELS

## TOT - 04

### TOT - 04.1 CHILD SAFETY PRECAUTIONS – PLEASE READ CAREFULLY

1	On-site adult supervision required while children are at play.
2	Warn children not to climb or walk on top of playground equipment (framework) not intended for such use.
3	All play equipment should be used in the manner for which it was intended.
4	Children should be dressed appropriately. Avoid loose fitting clothing such as scarves, ponchos, and clothing that could become easily entangled on equipment.
5	Children should be cautioned to avoid walking too close, between, or in front of moving items.
6	Children should be advised to "wait their turn" on activities such as a slide; therefore each child is able to slide down and safely move to the side before another child begins their descent.
7	Children's personal toys (bikes, wagons, etc.) should be stowed away from the play structure area.

### TOT - 04.2 WARNING LABEL ATTACHMENT

1	For additional Warning Labels, call (800) 333-8519. Standard set includes (1) Hard Surface warning label and (1) Designed for Ages (age appropriate) warning label.	
2	Attach in a conspicuous location, such as near an entry.	
3	To apply, clean surface with alcohol, remove protective backing and apply to panel.	

# GENERAL MAINTENANCE

## TOT - 05

**IMPORTANT:** To ensure the safest play area and equipment possible, periodic inspections should be performed and recorded on a daily, weekly, and monthly basis. Some form of maintenance program should be established and strictly adhered to. A comprehensive list of maintenance steps, including a sample playground maintenance safety inspection form, can be found in the maintenance manual included with your equipment.

### **TOT - 05.1 YOUR GENERAL MAINTENANCE PROGRAM SHOULD INCLUDE AT MINIMUM, THE FOLLOWING:**

1	Appropriate impact attenuating safety surfacing material must be maintained under and around all playground equipment.
2	The equipment and play area must be kept clean and free of any miscellaneous debris or litter.
3	Moving parts such as ropes, chains, swing hangers, bridges, etc. must be inspected regularly to determine if excessive wear is occurring. Any parts showing excessive wear or damage must be replaced.
4	All bolts, hardware, collars, and fittings must be checked regularly and tightened if necessary.
5	Any broken or missing end caps on pipe must be replaced.
6	Check all Steel and Poly Surfaces and replace or repair as required.
7	Make sure warning labels are legible and in a conspicuous location.

**For further information or questions about maintenance or for replacement parts, please contact your Playcraft representative or Krauss Craft, Inc. customer service at 1-800-333-8519.**