

## Installation Instructions Universal Models UN5048 and UN5049 Tall and Short Drum Kit



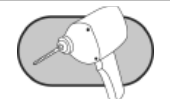
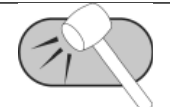

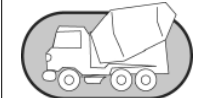

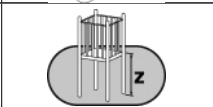


Assembly View (representative model)

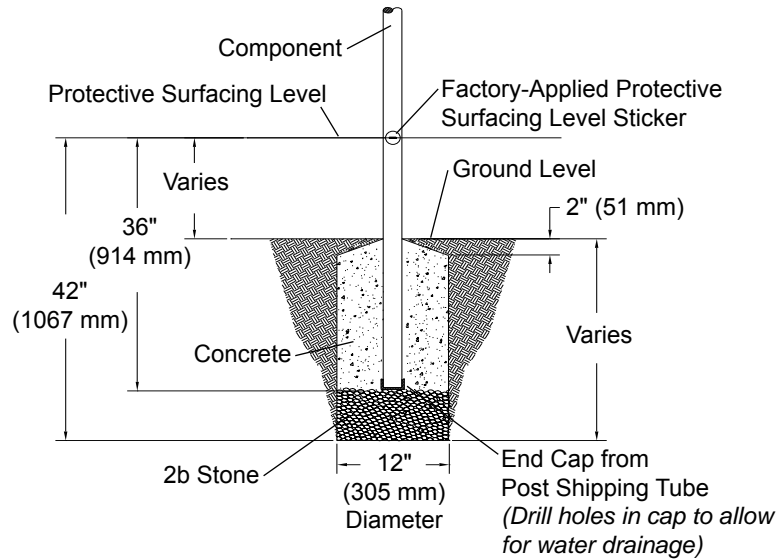
Model	Deck Height
ZZUN5048	30" (762 mm)
ZZUN5049	20" (508 mm)

### Installation Preparation

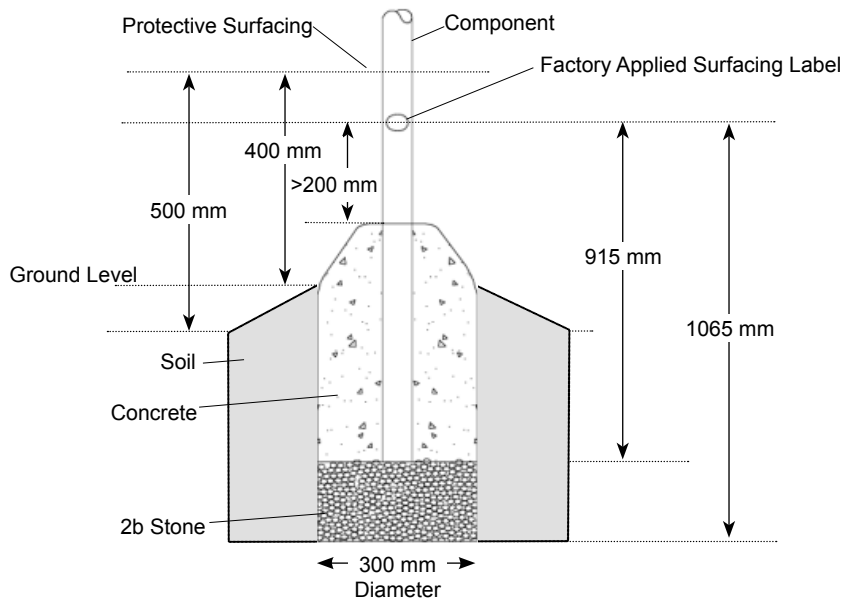
Recommended Crew: ..... Two (2) adults  
 Installation Time: ..... 3 installation-hours  
 Concrete Required: ..... 0.24 cubic yard (0,18 cubic meters)  
 Use Zone: ..... Refer to Master Drawing  
 User Group Age (years): ..... ASTM/CSA: 2-12, EN: 2-14

ICON KEY	
	Fully Tighten Hardware
	Do <b>Not</b> Fully Tighten Hardware
	Drill
	Hammer
	Add 1 Drop of Thread Locking Adhesive
	Pour Concrete
	Dig Footing Holes
	Critical Fall Height

# Installation Instructions



Component Footing Detail (ASTM/CSA)

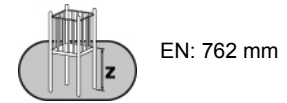
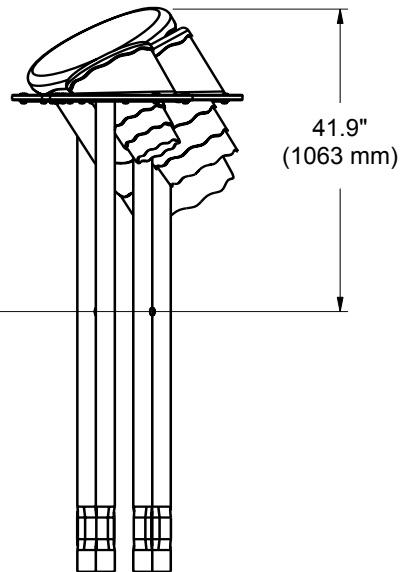
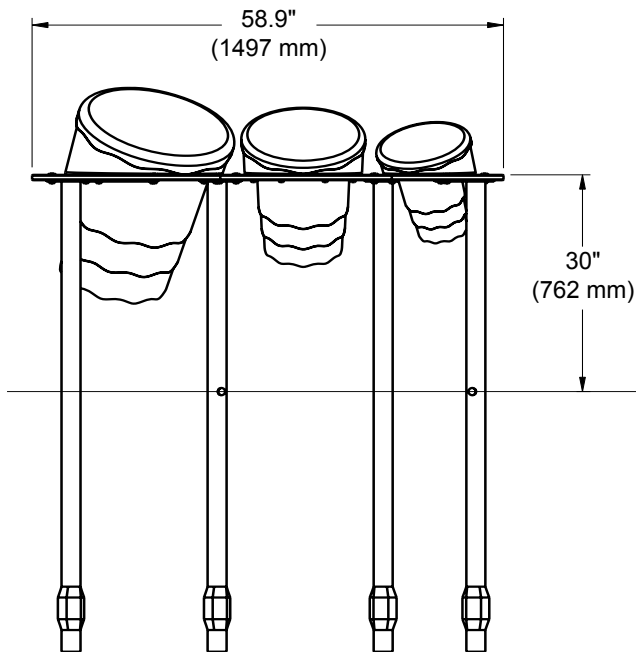
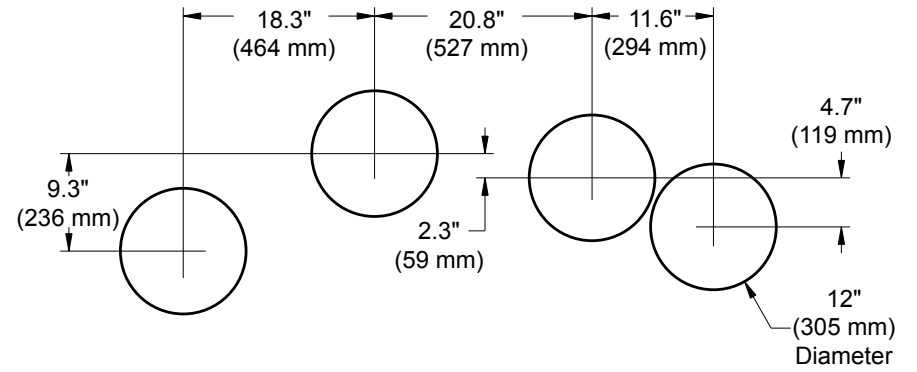
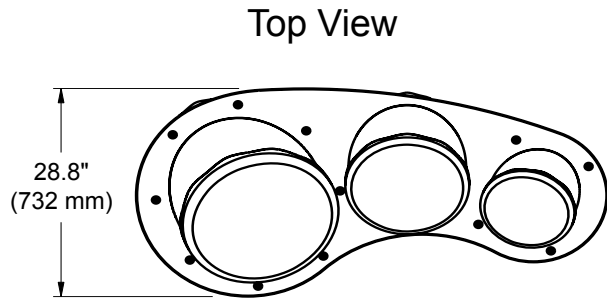


Footing Detail - Component Post (EN)

## FOOTING NOTES

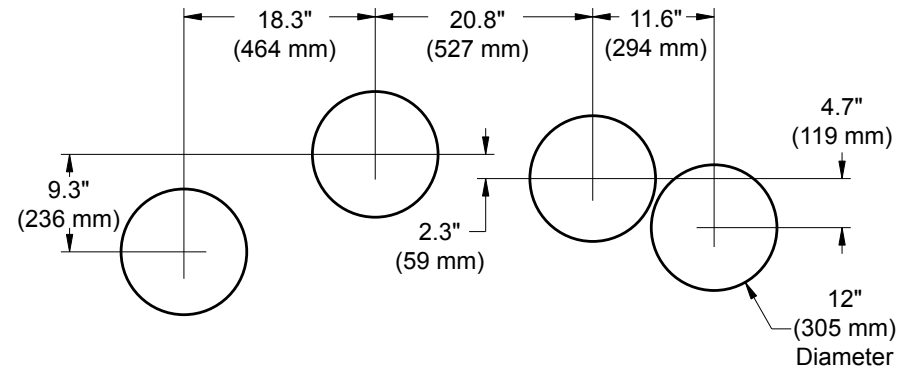
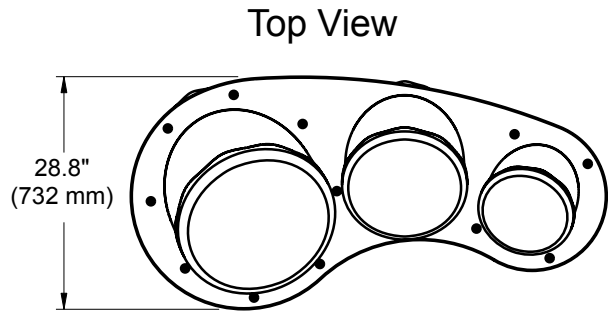
- Component footing depth equals 42 in. (1067 mm) less the depth of the protective surfacing material. The post is designed to have 24" (610 mm) in concrete.  
*Example:* If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).
- All support posts and component support legs shall have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.
- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.
- Do not encase bottom of support post in concrete. Place post directly on packed stone.
- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.  
For example:
  - If local soil is loose or unstable, a larger footing may be required.
  - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.
- Base of footing must be below frost line.
- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.

# Installation Instructions

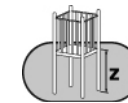
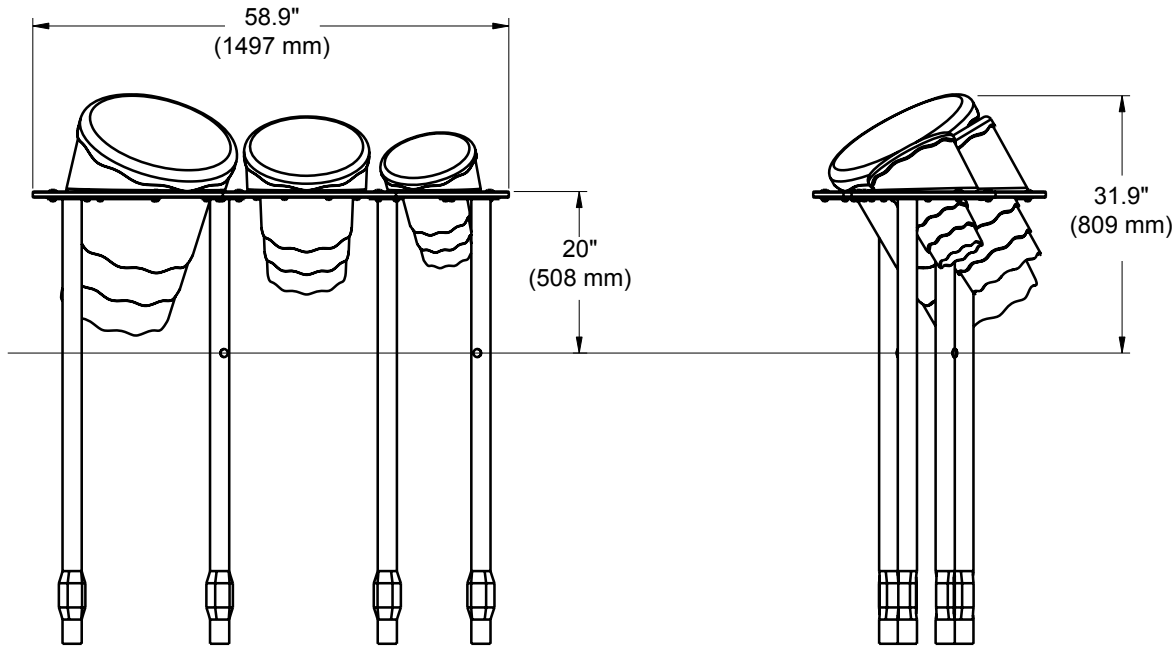


**Elevation View  
UN5048**

# Installation Instructions



**Footings Diagram**

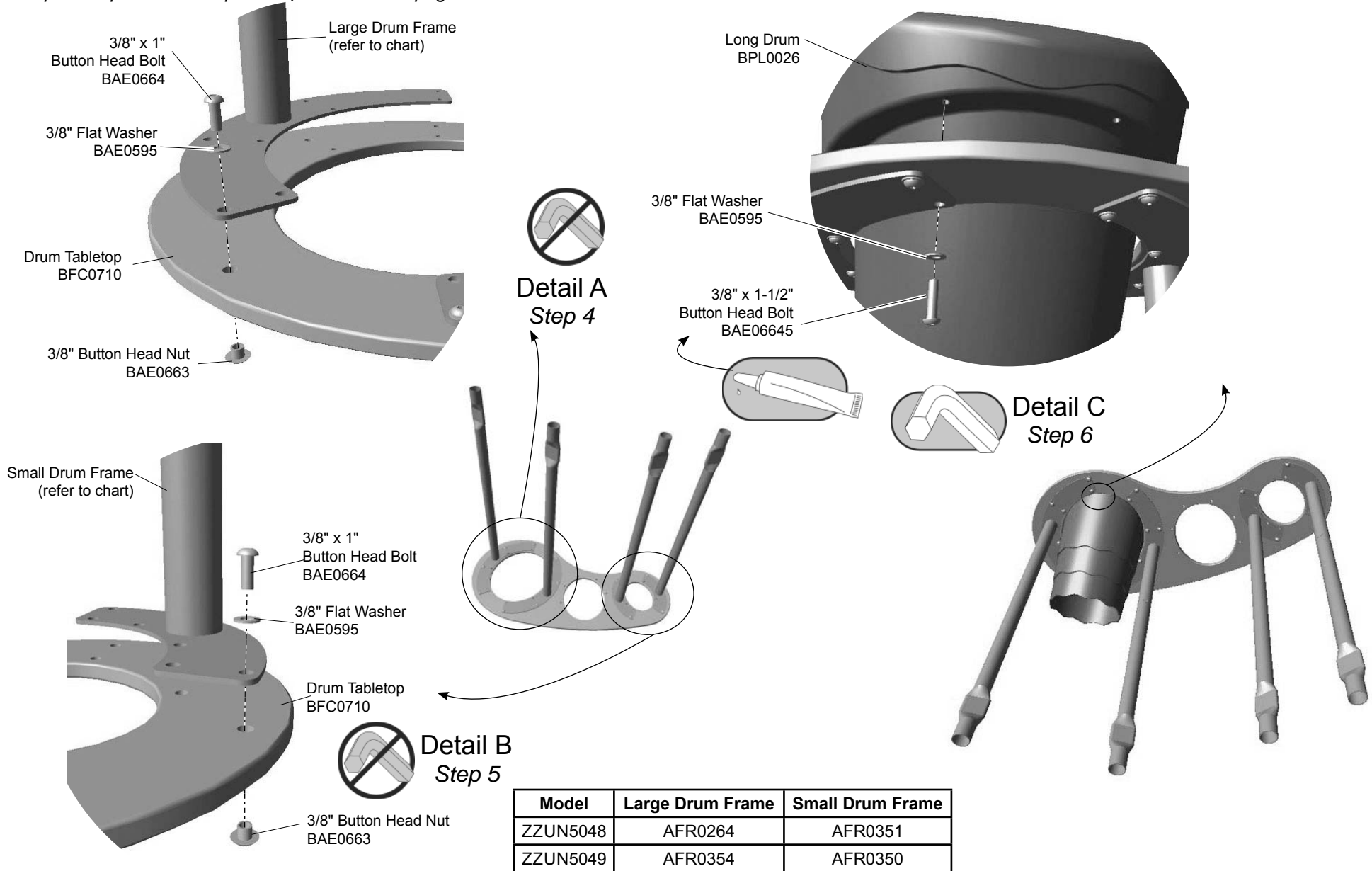


EN: 510 mm

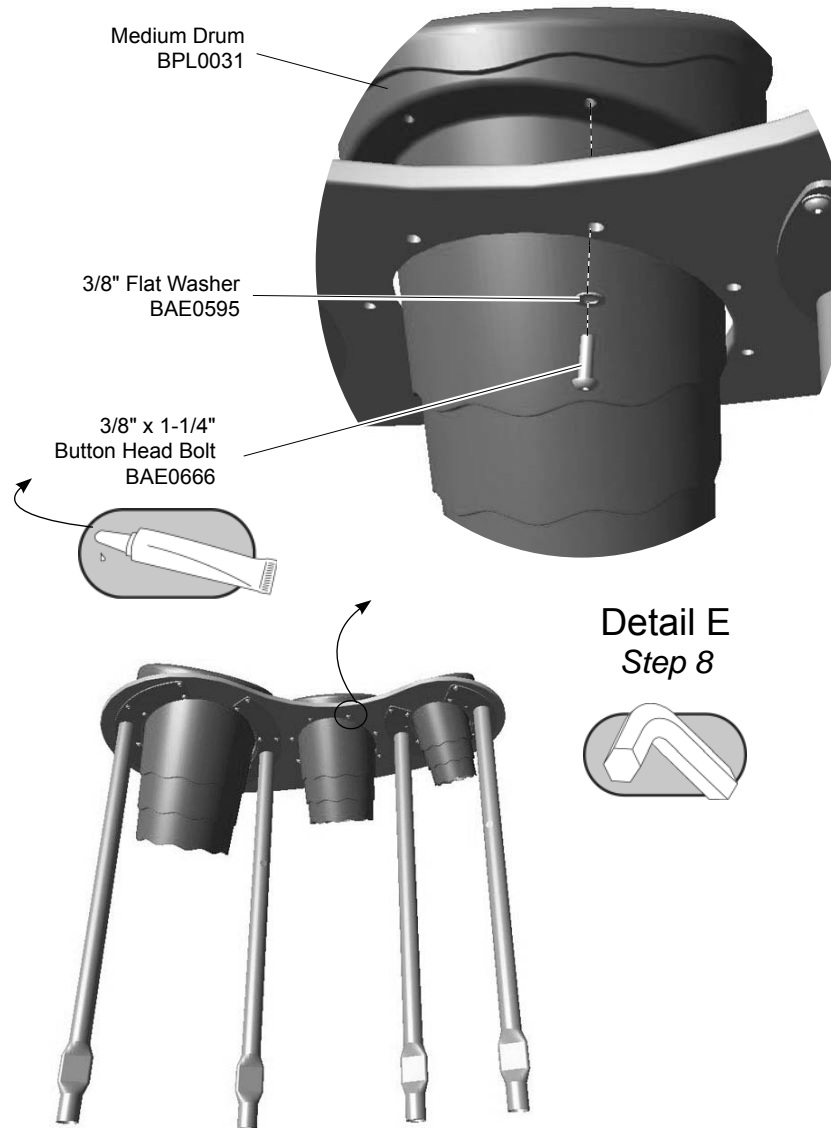
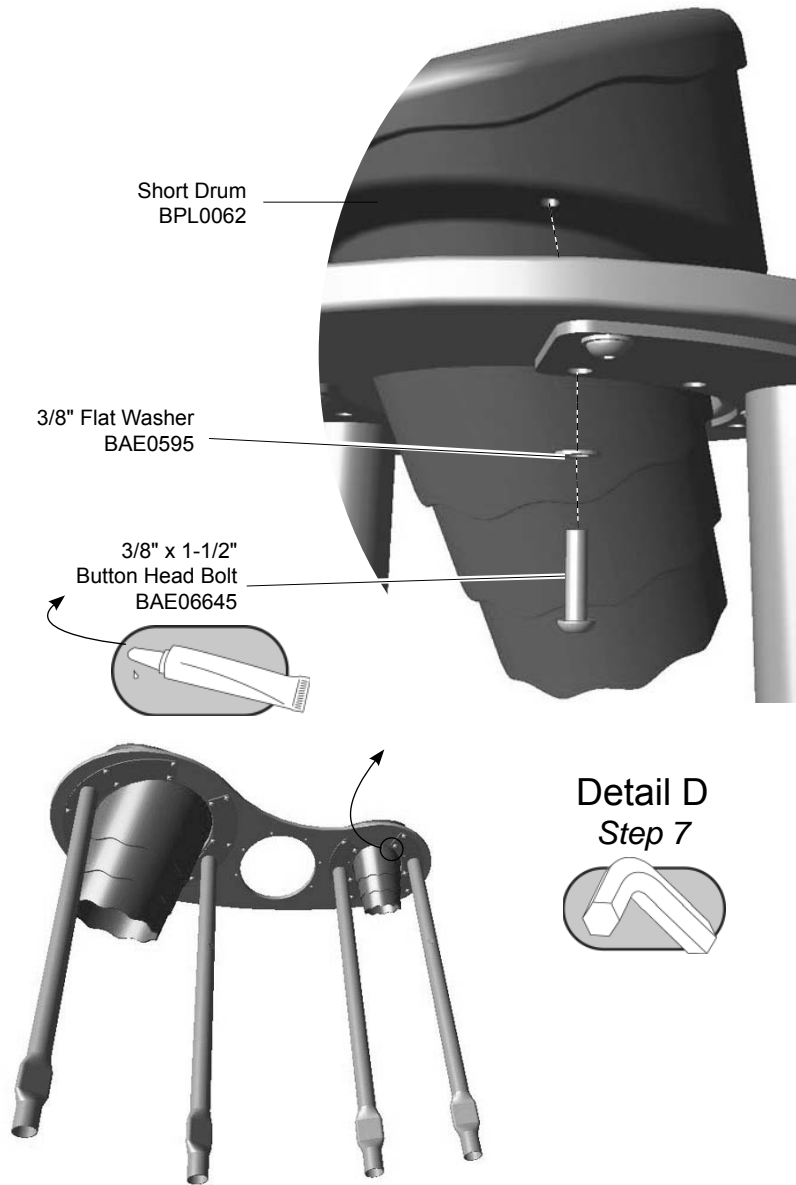
**Elevation View  
UN5049**

# Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 7.



# Installation Instructions



# Installation Instructions

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**Notes Before You Begin:** Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

**Carefully read and understand these installation instructions before you begin.**

**Step 1:** Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

**Step 2:** Separate and identify all components and hardware.

**Step 3:** Excavate footings as shown in the **Component Footing Details** on page 2 of this document.

**Attach the larger drum frames to the drum tabletop.**

**Step 4:** See **Detail A**. Select the drum tabletop, (2) two larger drum frames and the appropriate hardware. There are (8) eight connections. Lay the tabletop flat on the ground. Place the mounting plates of the drum frames on top of the tabletop so that they encircle the large cutout. Align the outside holes in the frame mounting plates with the outside holes around the cutout. Attach as shown in the *outer ring of holes only*. Leave the connections loose.

**Attach the smaller drum frames to the drum tabletop.**

**Step 5:** See **Detail B**. Select the drum tabletop assembly, (2) two smaller drum frames and the appropriate hardware. There are (4) four connections. Place the mounting plates of the drum frames on top of the tabletop so that they encircle the small cutout. Attach as shown in the *outer ring of holes only*. Leave the connections loose.

**Attach the drums to the frame assembly.**

**Step 6:** Attach the long drum to the frame assembly. See **Detail C**. Select the long drum, and the appropriate hardware. There are (6) six connections. Place the long drum in the large hole. Align holes in the large drum with inside holes around the large cutout section. Apply a drop of loctite to the bolt threads and attach as shown.

**Note:** There will be unused inside holes on the frame.

**Step 7:** Attach the short drum to the frame assembly. See **Detail D**. Select the short drum and the appropriate hardware. There are (4) four connections. Align the holes in the small drum with the inside holes around the small cutout section. Apply a drop of loctite to the bolt threads and attach as shown.

**Note:** There will be unused inside holes on the frame.

**Step 8:** Attach the medium drum to the frame assembly. See **Detail E**. Select the medium drum and the appropriate hardware. There are (6) six connections. Align the holes in the medium drum with the holes around the medium cutout section. Apply a drop of loctite to the bolt threads and attach as shown.

**Final Details.**

**Step 9:** Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

**Torque Specifications:**

*Bolts and nuts* - Snug tighten and then tighten an additional one half turn.

**UN5048 - TALL DRUM KIT**

PART NO.	DESCRIPTION	QTY.
AFR0264	FRAME - 65-1/4" x 24-19/32" x 9-1/16"	2
AFR0351	FRAME - 65-1/4" x 13-15/16" x 5-7/16"	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0595	WASHER - 3/8" SAE FLAT	28
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	12
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	12
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	10
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	6
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1
BAE0910	TOOL - 1/4" SHORT HEX KEY WRENCH	1
BFC0710	SHEET - 28.80" x 58.94" x .75" - DRUM KIT	1
BPL0026	MISC - 20.00" DIA. x 24.95" DRUM	1
BPL0031	MISC - 15.50" DIA. x 18.23" DRUM	1
BPL0062	MISC - 12.00" DIA. x 14.18" DRUM	1

**UN5049 - SHORT DRUM KIT**

PART NO.	DESCRIPTION	QTY.
AFR0350	FRAME - 55-1/4" x 13-15/16" x 5-7/16"	2
AFR0354	FRAME - 55-1/4" x 24-19/32" x 9-1/16"	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0595	WASHER - 3/8" SAE FLAT	28
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	12
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	12
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	10
BAE0666	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD - SS	6
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1
BAE0910	TOOL - 1/4" SHORT HEX KEY WRENCH	1
BFC0710	SHEET - 28.80" x 58.94" x .75" - DRUM KIT	1
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BPL0031	MISC - 15.50" DIA. x 18.23" DRUM	1
BPL0062	MISC - 12.00" DIA. x 14.18" DRUM	1



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For Customer Service, Call  
**800-233-8404** or  
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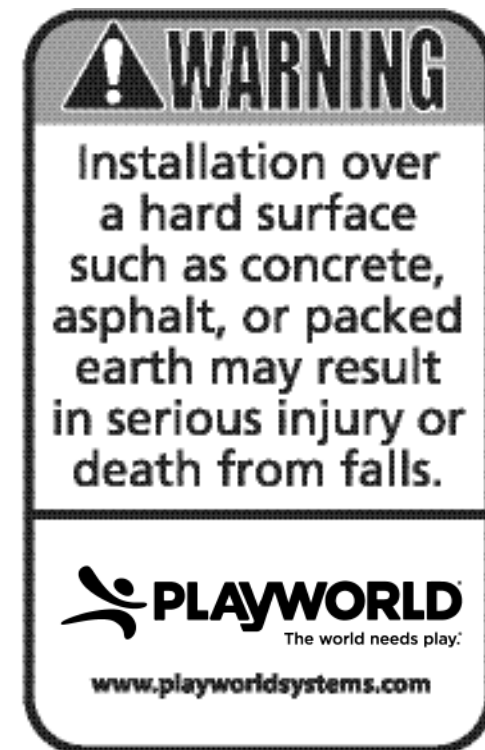


# Installation Instructions

## FINAL INSPECTION

- Playworld Systems® insists on the installation of protective surfacing within the use zone of each play structure in accordance with the applicable standard for your area, appropriate for the fall height of each structure.
- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. Refer to the inspection and maintenance schedule in the back of this booklet.
- Perform a thorough final check on the installed equipment to insure all equipment is installed as specified by manufacturer's installation instructions.
  - Review all Installation Instructions for specified dimensions. Make sure dimensions called for in instructions agree with actual installation.
  - Double check height dimensions. Height measurements are taken from the top of the protective surfacing material.
  - Insure all fasteners are tightened according to tightening torque specifications listed on your installation instructions.
  - Clean dried concrete off of components and any other affected surface.
  - Touch-up any scratches or installation damage to powder coated finish with color-matched spray paint.
  - Allow adequate time for proper curing, both for concrete and urethane cement if rubber safety surfacing tiles have been installed.
  - Insure that protective surfacing is properly installed according to recommendations. Footings must not be exposed. Refer to the florescent orange sheet included in the front of the installation instruction booklet titled "Owners Manual".
  - Insure that hard surface warning/Playworld Systems® identification labels (shown below) are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines. For areas complying with ASTM F-1487 or CSA Z-614 an age appropriate label must be applied in a visible location.

- Dispose of all packaging material properly. These materials which include large plastic bags and sheets can be a suffocation hazard. Dispose of these materials out of reach or contact of small children.



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#### Fasteners

- Inspect for loose fasteners. Tightening torque specifications are:  
Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- Inspect drive rivets to insure they are intact and secure.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

#### Plastic Parts

- Inspect all plastic surfaces for sharp points, cracks or jagged edges. If any damage is detected and is determined to be unsafe, barricade equipment to prevent use until repair is completed. Minor burrs or sharp edges may be removed by using a sharp utility knife or block plane to remove sharp burr.

#### Castings

- Inspect the aluminum castings to insure they are properly secured to the component.
- Visually inspect the castings for cracks or breakage. If any damage is detected, barricade the equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

#### Welds

- Inspect all welded joints. If any broken welds are detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

#### Finish

- Inspect metal parts for finish damage. To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

#### Footings

- Inspect component to be solid in footing and secure. If any damage is detected, barricade equipment to prevent use until repair is completed.

#### Surfacing

- Refer to the specific surfacing maintenance detail sheet for additional information.

#### Replacement Parts

- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

## Equipment Maintenance Universal Models UN5048 and UN5049 Tall and Short Drum Kit



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# Inspection Form

## Preventive Maintenance

**... for Safety's Sake!**

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

### INSPECTION CHECKLIST

	Frequency	Inspection Code	Date	Date Repairs Completed
Inspect plastic parts for damage.	Medium			
Inspect surfacing to insure proper depth and distribution.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			
Inspect footing to insure support is secure and footing is not damaged.	Low			

<b>Inspection Codes</b>
<b>P</b> = Pass <b>F</b> = Fail
<b>NA</b> = Not Applicable

Inspector: Name (Please Print) \_\_\_\_\_ Signature: \_\_\_\_\_ Date: \_\_\_ / \_\_\_ / \_\_\_

### MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) \_\_\_\_\_ Signature: \_\_\_\_\_ Date: \_\_\_ / \_\_\_ / \_\_\_

