

BOSSA NOVA DRUMS - INSTALLATION GUIDE

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MATERIALS	
ITEM	MATERIAL
BODY/ POST EXTENSION	POWDER COATED STEEL
HARDWARE	STAINLESS STEEL
DRUMHEAD	SYNTHETIC/ PLASTIC
PORTABLE BASE	HDPE

Pre-install Instructions

Determine layout style and mark layout. The drums can be laid out in a variety of styles such as an arc, cluster, or straight-line. Mark the location of one drum. Measuring from this point, mark the locations of the other two drums. Note that drums must maintain a 9" distance between each drum to meet ASTM requirements for a designated play area. Drums must also be installed in-ground or have surface-mount hardware covered by surfacing to be ASTM compliant.

IN GROUND MOUNT								
ITEM NO.	PART NUMBER	DESCRIPTION	DRUM-LRG-MOSS-IG	DRUM-MED-MOSS-IG	DRUM-SML-MOSS-IG	DRUM-LRG-TAUPE-IG	DRUM-MED-TAUPE-IG	DRUM-SML-TAUPE-IG
1	DRUM-LRG-MOSS	BOSSA NOVA DRUM-LARGE-MOSS	1	-	-	-	-	-
2	DRUM-MED-MOSS	BOSSA NOVA DRUM-MEDIUM-MOSS	-	1	-	-	-	-
3	DRUM-SML-MOSS	BOSSA NOVA DRUM-SMALL-MOSS	-	-	1	-	-	-
4	DRUM-LRG-TAUPE	BOSSA NOVA DRUM-LARGE-TAUPE	-	-	-	1	-	-
5	DRUM-MED-TAUPE	BOSSA NOVA DRUM-MEDIUM-TAUPE	-	-	-	-	1	-
6	DRUM-SML-TAUPE	BOSSA NOVA DRUM-SMALL-TAUPE	-	-	-	-	-	1
7	91845A031	3/8"-16 HEX NUT, SS	4	4	4	4	4	4
8	POST-STL-IG-EXT-FP	IN GROUND STEEL POST EXTENSION (POWDER-COATED)	1	1	1	1	1	1
9	92240A624	3/8"-16 HEX HEAD SCREW, 1"LG. SS	4	4	4	4	4	4
10	209728-12	LOCTITE HEAVY DUTY THREADLOCKER, 0.2OZ, BLUE 242	1	1	1	1	1	1
SURFACE MOUNT								
ITEM NO.	PART NUMBER	DESCRIPTION	DRUM-LRG-MOSS-SM	DRUM-MED-MOSS-SM	DRUM-SML-MOSS-SM	DRUM-LRG-TAUPE-SM	DRUM-MED-TAUPE-SM	DRUM-SML-TAUPE-SM
1	DRUM-LRG-MOSS	BOSSA NOVA DRUM-LARGE-MOSS	1	-	-	-	-	-
2	DRUM-MED-MOSS	BOSSA NOVA DRUM-MEDIUM-MOSS	-	1	-	-	-	-
3	DRUM-SML-MOSS	BOSSA NOVA DRUM-SMALL-MOSS	-	-	1	-	-	-
4	DRUM-LRG-TAUPE	BOSSA NOVA DRUM-LARGE-TAUPE	-	-	-	1	-	-
5	DRUM-MED-TAUPE	BOSSA NOVA DRUM-MEDIUM-TAUPE	-	-	-	-	1	-
6	DRUM-SML-TAUPE	BOSSA NOVA DRUM-SMALL-TAUPE	-	-	-	-	-	1
11	9267K43	35/64" HEX NUT CAP	4	4	4	4	4	4
12	POW 07315	3/8"-16 WEDGE EXPANSION ANCHOR, 3.75"LG. SS	4	4	4	4	4	4

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PORTABLE MOUNT								
ITEM NO.	PART NUMBER	DESCRIPTION	DRUM-LRG-MOSS-PM	DRUM-MED-MOSS-PM	DRUM-SML-MOSS-PM	DRUM-LRG-TAUPE-PM	DRUM-MED-TAUPE-PM	DRUM-SML-TAUPE-PM
1	DRUM-LRG-MOSS	BOSSA NOVA DRUM-LARGE-MOSS	1	-	-	-	-	-
2	DRUM-MED-MOSS	BOSSA NOVA DRUM-MEDIUM-MOSS	-	1	-	-	-	-
3	DRUM-SML-MOSS	BOSSA NOVA DRUM-SMALL-MOSS	-	-	1	-	-	-
4	DRUM-LRG-TAUPE	BOSSA NOVA DRUM-LARGE-TAUPE	-	-	-	1	-	-
5	DRUM-MED-TAUPE	BOSSA NOVA DRUM-MEDIUM-TAUPE	-	-	-	-	1	-
6	DRUM-SML-TAUPE	BOSSA NOVA DRUM-SMALL-TAUPE	-	-	-	-	-	1
13	91185A867	3/8"-16 THUMB SCREW, 1"LG. SS	4	4	4	4	4	4
14	PM-PS-24	UNIVERSAL PORTABLE MOUNT STAND - 24" OUTER DIAMETER	1	1	1	1	1	1
7	91845A031	3/8"-16 HEX NUT, SS	4	4	4	4	4	4
DRUM SETS								
ITEM NO.	PART NUMBER	DESCRIPTION	DRUM-SET-MOSS-IG	DRUM-SET-TAUPE-IG	DRUM-SET-MOSS-SM	DRUM-SET-TAUPE-SM	DRUM-SET-MOSS-PM	DRUM-SET-TAUPE-PM
1	DRUM-LRG-MOSS	BOSSA NOVA DRUM-LARGE-MOSS	1	-	1	-	1	-
2	DRUM-MED-MOSS	BOSSA NOVA DRUM-MEDIUM-MOSS	1	-	1	-	1	-
3	DRUM-SML-MOSS	BOSSA NOVA DRUM-SMALL-MOSS	1	-	1	-	1	-
4	DRUM-LRG-TAUPE	BOSSA NOVA DRUM-LARGE-TAUPE	-	1	-	1	-	1
5	DRUM-MED-TAUPE	BOSSA NOVA DRUM-MEDIUM-TAUPE	-	1	-	1	-	1
6	DRUM-SML-TAUPE	BOSSA NOVA DRUM-SMALL-TAUPE	-	1	-	1	-	1
8	POST-STL-IG-EXT-FP	IN GROUND STEEL POST EXTENSION (POWDER-COATED)	3	3	-	-	-	-
9	92240A624	3/8"-16 HEX HEAD SCREW, 1"LG. SS	12	12	-	-	-	-
7	91845A031	3/8"-16 HEX NUT, SS	12	12	-	-	12	12
10	209728-12	LOCTITE HEAVY DUTY THREADLOCKER, 0.2OZ, BLUE 242	3	3	-	-	-	-
11	9267K43	35/64" HEX NUT CAP	-	-	12	12	-	-
12	POW 07315	3/8"-16 WEDGE EXPANSION ANCHOR, 3.75"LG. SS	-	-	12	12	-	-
13	91185A867	3/8"-16 THUMB SCREW, 1"LG. SS	-	-	-	-	12	12
14	PM-PS-24	UNIVERSAL PORTABLE MOUNT STAND - 24" OUTER DIAMETER	-	-	-	-	3	3

IN GROUND INSTALLATION

Step 1: Assemble Drums

After applying a few drops of thread-locking fluid to the ends of the bolt threads, use the 3/8" hex head bolts and 3/8" hex nuts to secure the post extensions to each drum.

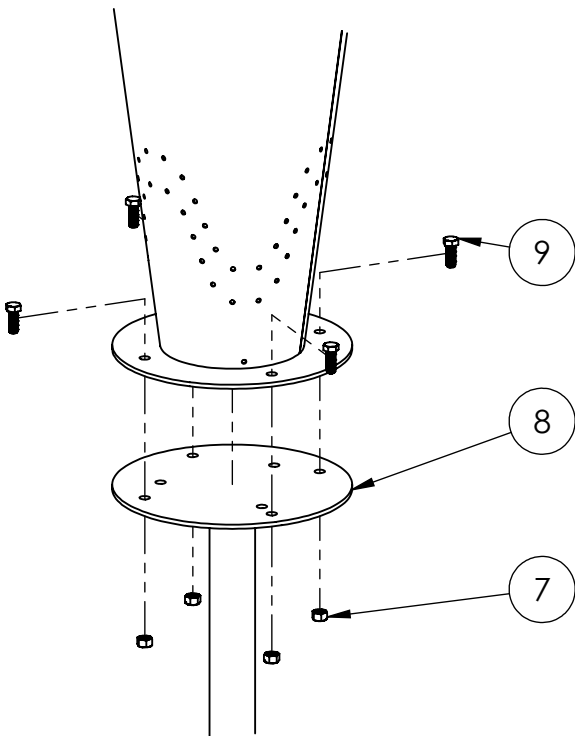
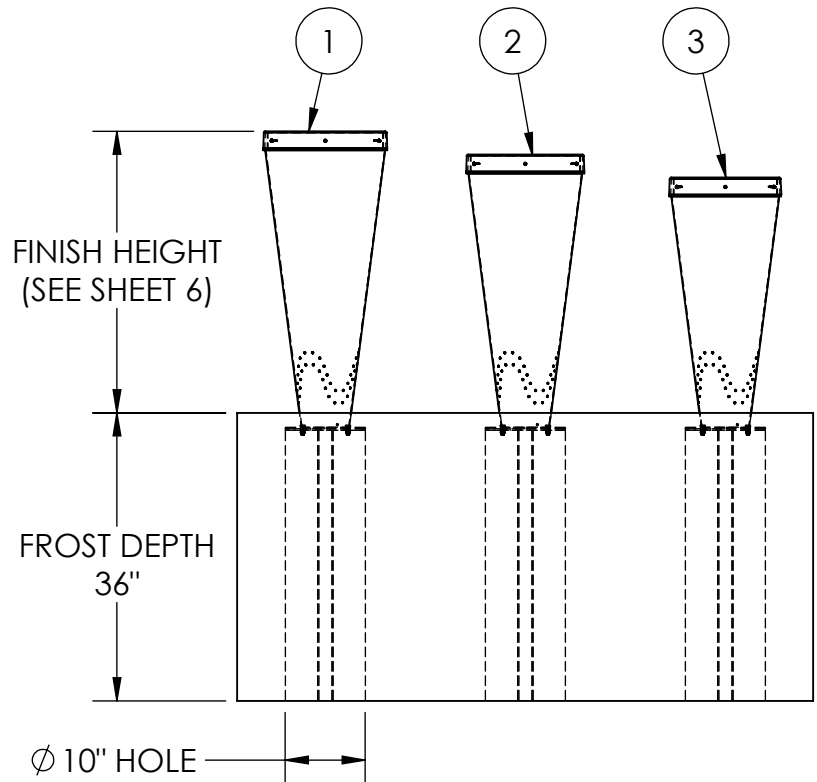
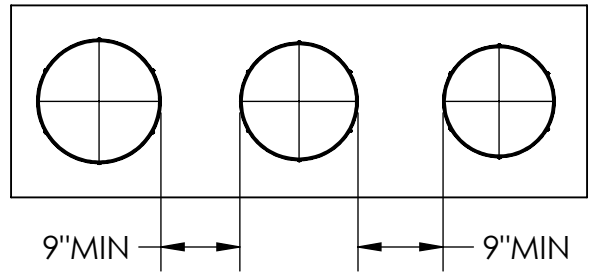
Step 2: Dig holes. After choosing your layout, excavate (3) 10" DIA holes 34" deep at the marked locations (1 hole per drum).

Step 3: Place Drums

With two people, place each drum into its hole and verify the finish height of each drum. Adjust the hole depth if necessary to achieve the proper finish height. See sheet 6 for finish height recommendations.

Step 4: Pour Concrete

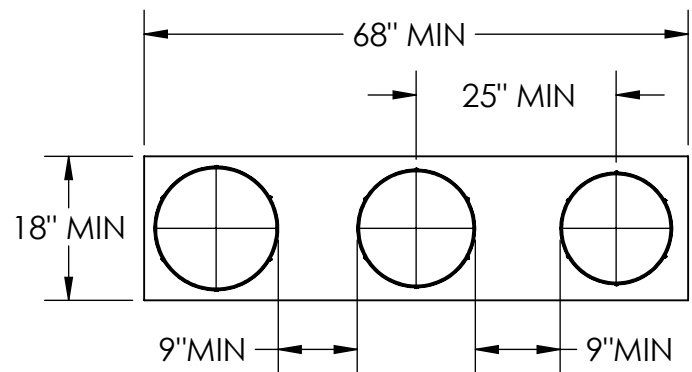
Pour concrete around the post extension within the hole and check that the drums are level. Leave concrete to set according to the concrete manufacturer's recommendations. If necessary, brace each drum to hold it level during the curing process. Approximately (9) 80lb bags of concrete will be needed for a full set, (3) bags per drum.



SURFACE MOUNT INSTALLATION

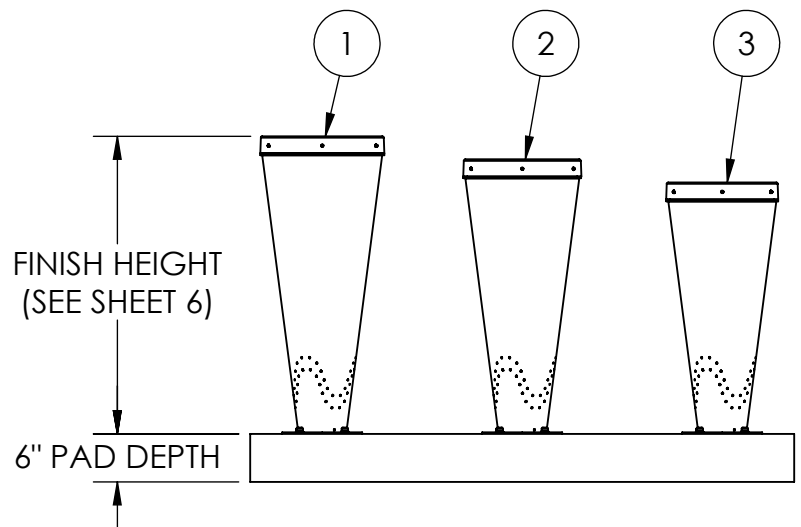
Step 1: Pour Slab

Pour a concrete slab at least 18" long x 18" wide x 6" thick for each drum. A slab of 18" long x 68" wide x 6" deep can be used if drums are installed in a line. If using an existing slab, verify that the footing meets these dimensions. Make sure to verify the desired spacing between drums before pouring concrete. Verify that there is at least 9" of space between each drum (at least 25" apart center to center) if installed in a designated play area. Allow concrete to cure according to the manufacturer's recommendations.



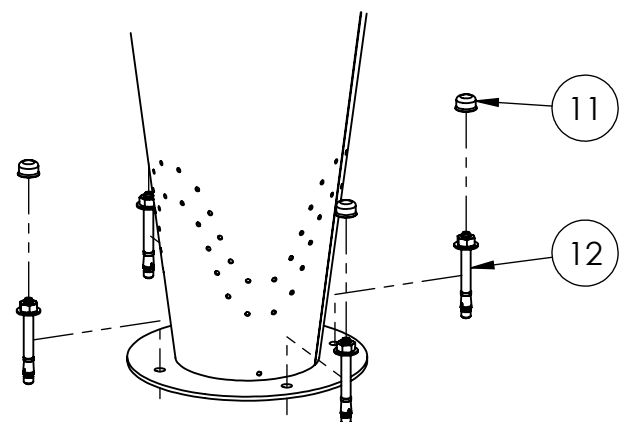
Step 2: Drill pilot holes.

With two people, place each drum individually over the marked locations. Verify that there is at least 9" of space between each drum (at least 25" apart center to center) if installed in a designated play area. Mark the locations of the mounting holes at the base of each drum. Set drums aside. Using a hammer or rotary drill and masonry bit, drill 3/4" holes 4" deep into the concrete at the marked locations.



Step 3: Secure drums.

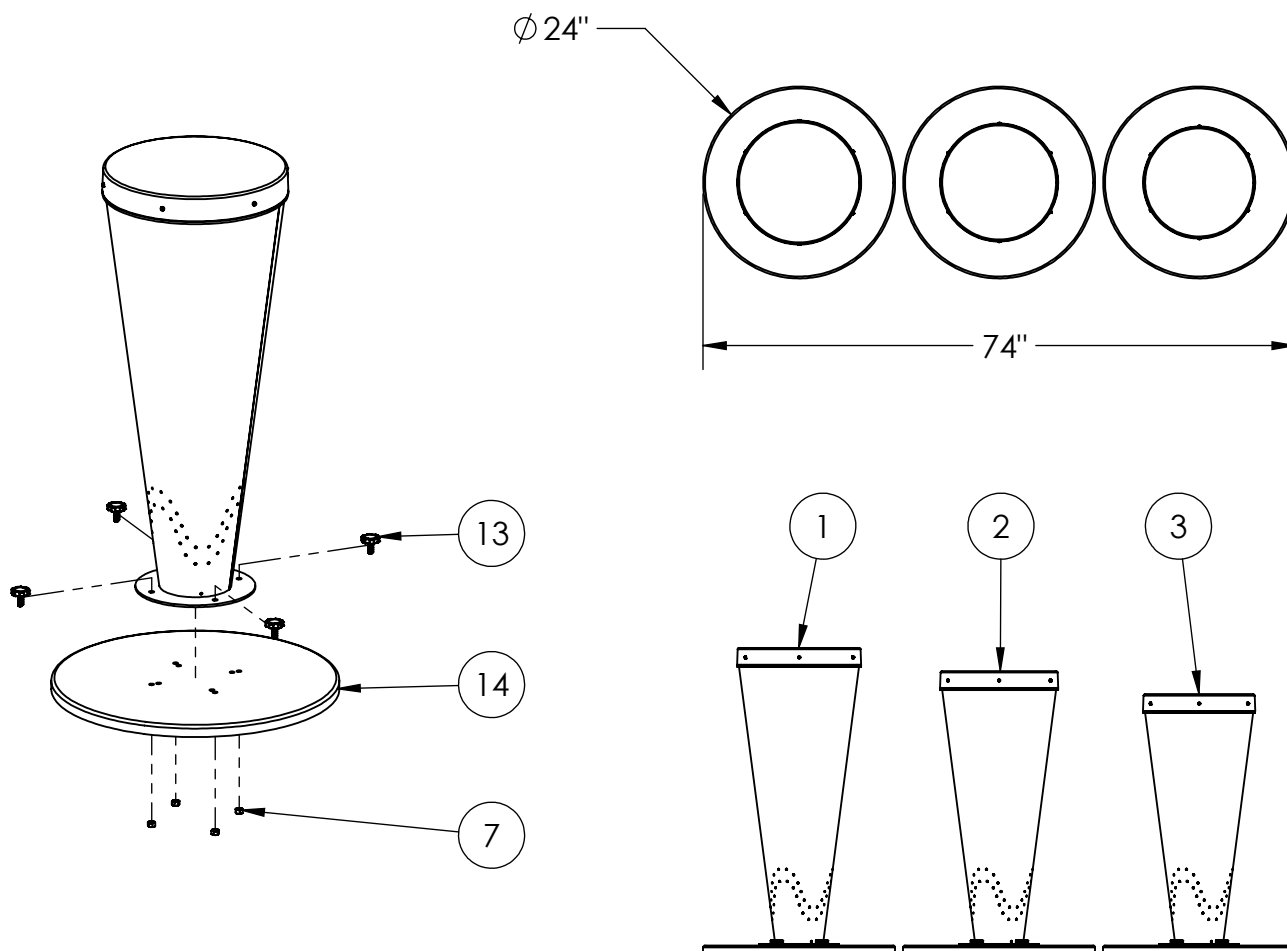
Place the drums back over the pilot holes. If the concrete pad is at an angle, steel washers can be used as shims to adjust the levelness of each drum. Insert anchor bolts through the base of each drum and into the pilot holes. Position the anchor nuts so that they are flush with the top of the bolts. Pound the anchor bolts into the holes until the anchor washers are flush with the drum base. Tighten the anchor bolts until they are snug. Cover the bolt heads with the caps.



PORTABLE MOUNT INSTALLATION

Step 1: Attach Drums to Bases

Using the provided hardware, secure each of the drums to the portable mount bases. Note that portable mount drums should not be placed in the designated play area, as this will fail to meet compliance standards.



SPECS, FINISH HEIGHT, AND REPLACEMENT PARTS

WEIGHTS AND DIMENSIONS							
IN GROUND MOUNT							
	DRUM-LRG-MOSS-IG / DRUM-LRG-TAUPE-IG	DRUM-MED-MOSS-IG / DRUM-MED-TAUPE-IG	DRUM-SML-MOSS-IG / DRUM-SML-TAUPE-IG				
FINISH HEIGHT (BOLT HEADS COVERED)	35.20	32.31	29.42				
DIAMETER	15.5	14.75	13.5				
WEIGHT	43	39	37				
PACKAGED WEIGHT	50	46	44				
SURFACE MOUNT							
	DRUM-LRG-MOSS-SM / DRUM-LRG-TAUPE-SM	DRUM-MED-MOSS-SM / DRUM-MED-TAUPE-SM	DRUM-SML-MOSS-SM / DRUM-SML-TAUPE-SM				
FINISH HEIGHT	37.20	34.31	31.42				
DIAMETER	15.5	14.75	13.5				
WEIGHT	42	38	36				
PACKAGED WEIGHT	49	45	43				
PORTABLE MOUNT							
	DRUM-SET-MOSS-IG / DRUM-SET-TAUPE-IG	DRUM-SET-MOSS-SM / DRUM-SET-TAUPE-SM	DRUM-SET-MOSS-PM / DRUM-SET-TAUPE-PM				
FINISH HEIGHT	38.2	35.31	32.42				
DIAMETER	24	24	24				
WEIGHT	43	39	37				
PACKAGED WEIGHT	50	46	44				
DRUM SETS							
	DRUM-SET-MOSS-IG / DRUM-SET-TAUPE-IG	DRUM-SET-MOSS-SM / DRUM-SET-TAUPE-SM	DRUM-SET-MOSS-PM / DRUM-SET-TAUPE-PM				
FINISH HEIGHT (LARGE DRUM)	35.20	37.20	38.2				
TOTAL WIDTH	64.75	64.75	74				
DEPTH	15.66	15.66	24				
WEIGHT	133	130	133				
PACKAGED WEIGHT	140	137	140				
REPLACEMENT PARTS							
PART NUMBER	DESCRIPTION	DRUM-LRG-MOSS	DRUM-MED-MOSS	DRUM-SML-MOSS	DRUM-TAUPE-LRG	DRUM-TAUPE-MED	DRUM-TAUPE-SML
DRUM-DRUMHEAD-LRG-MOSS	BOSSA NOVA DRUM DRUMHEAD-LARGE-MOSS	1	-	-	-	-	-
DRUM-DRUMHEAD-MED-MOSS	BOSSA NOVA DRUM DRUMHEAD-MEDIUM-MOSS	-	1	-	-	-	-
DRUM-DRUMHEAD-SML-MOSS	BOSSA NOVA DRUM DRUMHEAD-SMALL-MOSS	-	-	1	-	-	-
DRUM-DRUMHEAD-LRG-TAUPE	BOSSA NOVA DRUM DRUMHEAD-LARGE-TAUPE	-	-	-	1	-	-
DRUM-DRUMHEAD-MED-TAUPE	BOSSA NOVA DRUM DRUMHEAD-MEDIUM-TAUPE	-	-	-	-	1	-
DRUM-DRUMHEAD-SML-TAUPE	BOSSA NOVA DRUM DRUMHEAD-SMALL-TAUPE	-	-	-	-	-	1
92970A203	TAMPER-RESISTANT ROUNDED HEAD DRILLING SCREWS	6	6	6	6	6	6