

BA871, BA872

Ultimate Playground Basketball System Instructions



Customer Service
(800) 247-7668

PARTS LIST					
Item	Qty	Description	Item	Qty	Description
A	1	Vertical Pole	I	1	BA47/47A/47P Backboard (2 req'd on Model BA872)
B	1	Extension Arm (2 req'd on Model BA872)	J	1	BA39U/BA39UZC Rim (2 req'd on Model BA872)
C	1	Mounting Plate (Not req'd on Model 872)	K	1	Rim Mounting Hardware (included with BA39U/BA39U-GV)
D*	6	5/8" x 8" Hex Bolts	L*	2	7/16" x 1-1/4" Carriage Bolt (4 req'd on Model BA872)
E*	6	5/8" Hex Nuts	M*	2	7/16" Flat Washers (4 req'd on Model BA872)
F*	6	5/8" D-Shape Flat Washers	N*	2	7/16" Lock Washers (4 req'd on Model BA872)
G*	6	5/8" Lock Washers	O*	2	7/16" Hex Nuts (4 req'd on Model BA872)
H*	8	3/8" x 1-1/2" Spring Pins	P	1	Pole Cap
* Stainless Steel on BA871 and BA872 Coastal System					

Warning!!!
 The *Extension Arm* is EXTREMELY heavy!
 Stay Away from the area Below the *Extension Arm/Backboard* while installing or adjusting!
Serious injury or death may occur.

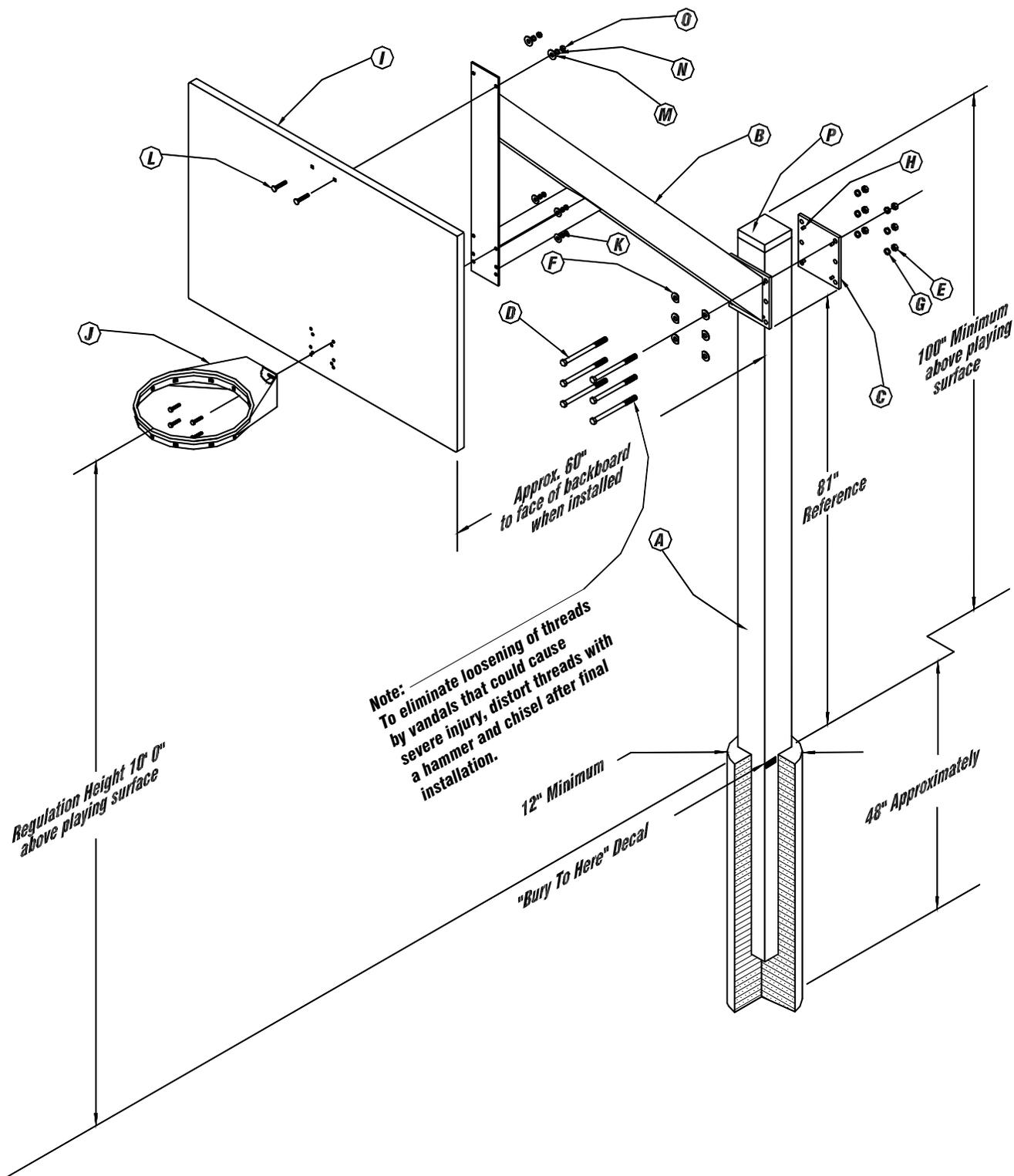
- ◆ To eliminate the possibility of vandals loosening the extension arm clamp bolts, distort the threads with a hammer and chisel when installation is complete.
- ◆ Inspect all contents prior to installation. Report any missing parts to dealer immediately.
- ◆ Read all instructions before proceeding.

TOOLS/MATERIALS REQUIRED	
2 each 15/16" Wrench	1 each Post Hole Digger
2 each 5/8" Wrench	1 each Carpenters Level
2 each 9/16" Wrench	1 each Step Ladder
1 each Tape Measure	9-10 each Pre-Mix Concrete Bags (1/3 Cubic Foot Bags)
Bracing Materials	

1. Position the *Vertical Pole (A)* taking into consideration that the *BA47 Backboard (I)* will be approximately 5' from the front of the *Vertical Pole (A)*. Dig a 12" minimum diameter by 48" deep hole. It is advisable to bell out the bottom of the hole about 4" larger in diameter. A larger diameter hole is always better than a hole that is not large enough.
2. Make sure that you have the following tools available prior to pouring the concrete footing: a level, a broomstick or similar pole, bracing materials, and a tape measure. If you have made your hole larger than 12" Dia. x 48" deep, than you will require more concrete. Having enough concrete before you start will ensure proper strength of the footing.
3. Mix concrete according to instructions on the bag. It is advantageous to have the mixture be "wet". This will increase your working time and allow the batches to mix in the hole. Pour the hole full to ground level. Insert the broomstick into the wet concrete and agitate up and down, REPEAT SEVERAL TIMES. Insert the *Vertical Pole (A)* into the concrete while continuing to agitate broomstick to ensure the mixture fills in good around the *Vertical Pole (A)*. Make sure that at least 100" of pole extends above desired playing surface to ensure official 10'-0" playing height. (Approximately to decal on pole, **see illustration.**) Clean excess concrete off of the *Vertical Pole (A)* with a damp towel and smooth the top of the footing. Level the *Vertical Pole (A)* and apply bracing materials to support while concrete cures.
4. Install 4 (four) *Spring Pins (H)* in *Mounting Plate (C)* so that they are flush with the back side of the *Mounting Plate (C)*. Install 4 (four) *Spring Pins (H)* in the *Mounting Plate (C)* on the *Extension Arm (B)* with the *Spring Pins (H)* flush to the *Backboard (I)* side. These *Spring Pins (H)* are essential to the alignment of the *Extension Arm (B)* to the *Vertical Pole (A)*. Spring pins will be pre-installed in "Hot-Dip" Galvanized poles.
5. After allowing 48 hours curing time for the concrete, mount the *Extension Arm (B)* as shown using hardware provided. The *Extension Arm (B)* can be loosely mounted at the ground level and raised to correct height depending on equipment availability.

WARNING! EXTENSION ARM IS EXTREMELY HEAVY! STAY AWAY FROM THE AREA BELOW THE EXTENSION ARM/BACKBOARD WHILE INSTALLING OR ADJUSTING. SERIOUS INJURY OR DEATH MAY OCCUR.

6. Install the *Model BA47 Backboard (I)* over the top lip on the *Extension Arm (B)* and attach the *BA47 Backboard (I)* to arm with the 7/16" hardware provided (M)(N)(O). Finger tighten only.
7. Install the *Model BA39U Rim (J)* using the hardware provided with it.
8. Tighten all bolts making sure the *Model BA39U Rim (J)* is at the desired height.
9. Install the *Pole Cap (P)*.
10. To eliminate possible loosening of the extension arm bolts by vandals, which could cause serious injury or death, distort the thread on the six 5/8" x 8" *Hex Bolts (D)* with a chisel and hammer



BA79UGP

Cement Base Installation Instructions



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(800) 247-7668

PARTS LIST

Item	Qty	Description	Item	Qty	Description
A	4	"J" Bolts	E	4	5/8" Lock Washer
B	4	3/6" Long Rebar	F	8	5/8" Flat Washer
C	1	Template	G	4	Safety Cap
D	12	5/8" Hex Nuts			

- ◆ Inspect all contents prior to installation. Report any missing parts to dealer immediately.
- ◆ Read all instructions before proceeding.

Note!

Care must be taken to maximize the amount of hard playing surface under and around the goal yet minimizing any interference with driveway traffic especially when the unit is adjusted to its lowest position. Please refer to Figure A and corresponding application chart on page 3 for hole location.

Warning!

On all pole systems with a crank on the backside of the pole the center of pole should be a minimum of 22" from any wall, fence or permanent structure behind the pole to avoid interference with adjusting crank.

Warning!

On Zip Crank and Ultimate Adjustable systems with the crank in the front of the pole the center of the pole should be a minimum of 10" from any wall, fence or permanent structure behind the pole.

1. Dig a hole a minimum of 20" in diameter and 48" deep. Bell out the bottom 12" of the hole to a diameter that is at least 4" larger than the diameter of the hole at the top. Digging the hole too big is better than digging it too small. See Figure A.
2. Prepare the "J" Bolt assembly by first threading a 5/8" Hex Nut (D) on to each "J" Bolt (A) so that approximately 2-1/2" of thread is protruding above the nut. Place the threaded end of the "J" Bolt (A) through the four holes in the Template (C). Thread a second 5/8" Hex Nut (D) onto each "J" Bolt (A) on the top side of the Template (C). Tighten the nuts on both sides of the Template (C), making sure that the same length of "J" Bolt (A) (2" minimum) is protruding above the Template (C) in all four corners and that the "J" Bolt (A) "legs" are pointing toward the center of the Template (C). See Figure A.
3. Before pouring the concrete, make sure you have the required tools available: a level, a broomstick or similar pole to vibrate the concrete, and a tape measure to correctly place the Template (C).

4. A 20" diameter by 48" deep hole will require approximately 1/2 cubic yard of 3000 psi concrete (22-24 60# sacks of premix concrete). Allow for more if the hole is deeper or wider. Make sure you have enough concrete before pouring, because allowing a portion to dry before the hole is completely filled will affect the strength of the footing.
5. You are now ready to complete the most critical portion of the installation. Please note (and avoid) these COMMON INSTALLATION PROBLEMS:
 - ◆ Proceeded without reading instructions fully.
 - ◆ Stopping short of the required hole size.
 - ◆ Underestimated amount of concrete required, part of base/footing dried before you could finish pouring.
 - ◆ Just "eyeballed" the squareness of the base, when assembled, the pole and board are not parallel or square to your driveway/playing surface.
 - ◆ Didn't allow enough time to correctly complete the project. Setting this base properly ensures the function and appearance of your system.
 - ◆ Being overanxious to mount the pole and board before the footing was fully cured. (A defective footing is harder to dig out than to install.)
 - ◆ Damaged threads on J-Bolts making it impossible to install nut.
6. Drive 36" Rebar (B) into the bottom of the hole. Equally space the rebar so that it forms a square.
7. Mix the concrete according to the instructions on the bag. It is a good idea to have the concrete mixture be "wet". This will increase your working time and allow batches to mix in the hole. Pour the hole full to ground level. Insert the broomstick into the wet concrete and agitate it up and down. REPEAT SEVERAL TIMES.
8. Insert the "J" bolt assembly *Template (C)* and "*J*" Bolts (A) into the wet concrete. Be sure the bolt pattern is parallel with the desired position of the backboard and the edge of the playing surface. Use the tape measure to double check. Vibrate the assembly as you insert it so the concrete fills in around the "*J*" Bolts (A). Be sure the *Template (C)* is pressed firmly against the surface of the wet concrete. The top of the concrete footing must be flush with the playing surface.
9. Clean excess concrete from edge of hole and level the concrete from the edge of the *Template (C)* to the edge of the hole. Check the level of the "*J*" Bolts (A) again.
10. ALLOW FOOTING TO DRY FOR SEVEN (7) DAYS. ONLY AFTER CONCRETE HAS CURED FOR SEVEN DAYS SHOULD YOU PROCEED.
11. Once the concrete is cured you may now remove the upper 5/8" Hex Nuts (D) from the "*J*" Bolts (A) and remove and discard the *Template (C)*.
12. Place the 5/8" Hex Nuts (D) you just removed back on each "*J*" Bolt (A) and finger tighten against the nut that is embedded in the concrete footing. Install one 5/8" Flat Washer (F) on top of each 5/8" Hex Nut (D). See Figure B.
13. Install the base of pole over the "*J*" Bolts (A). Place 5/8" Flat Washers (F), 5/8" Lock Washers (E) and 5/8" Hex Nuts (D) on "*J*" Bolts (A) to tighten base down. You can level pole if needed by adjusting the 5/8" Hex Nuts (D) above and below the base plate. Make sure all hardware is tight once leveled. Press Safety Cap (G) over the exposed ends of "*J*" Bolts (A). You are now ready to finish the installation of your basketball system. See Figure B.

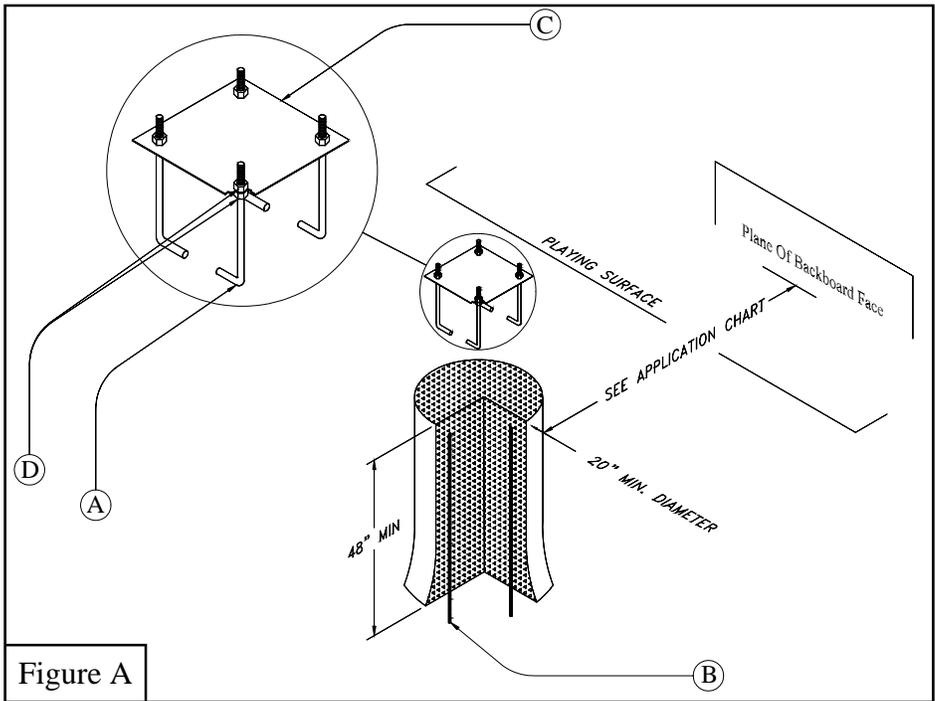


Figure A

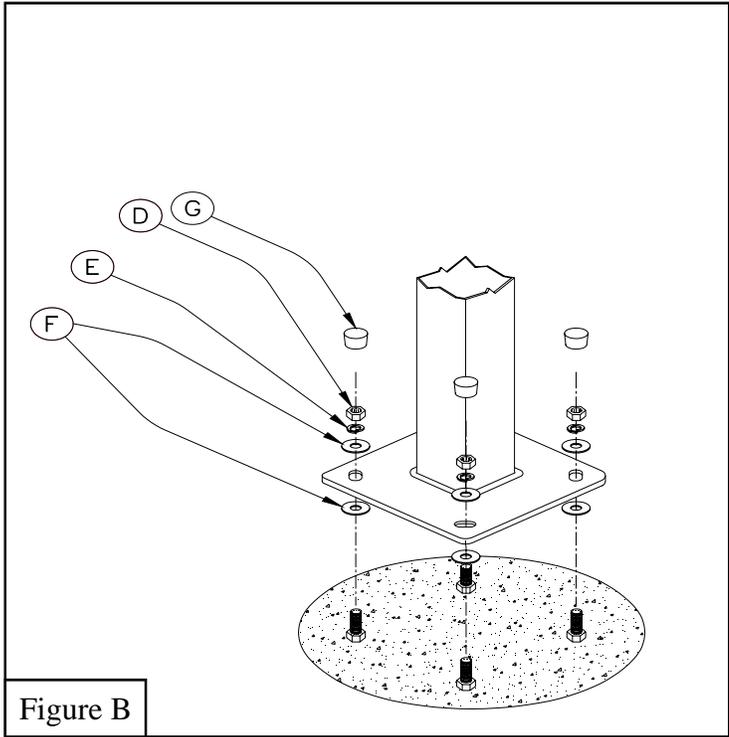


Figure B

Application Chart:

Table shows backboard location in relation to center of hole when the systems are adjusted at 10', 9' and 8' rim heights.

System	Product Code	10' Rim Height	9' Rim Height	8' Rim Height
4" & 5" Zip Crank	BA785U & BA786U	30"	37"	43"
4" Rapid Adjust	BA79U	43"	53"	57"
5" Rapid Adjust	BA79K	55 1/2"	63 1/2"	67 1/2"
6" Ultimate Adjustable	BA870AA	53"	61"	69"
6" Ultimate	BA870A	60"	60"	60"
4" & 5" Qwiklift	BA740QL & BA840QL	36"	39"	42"