

— Installation & Safe Use Manual —

MODELS: PR20, PR29, PR31, PR33, AND BA775 POLES ORDERED SEPARATELY



Tough Duty Gooseneck Basketball Systems

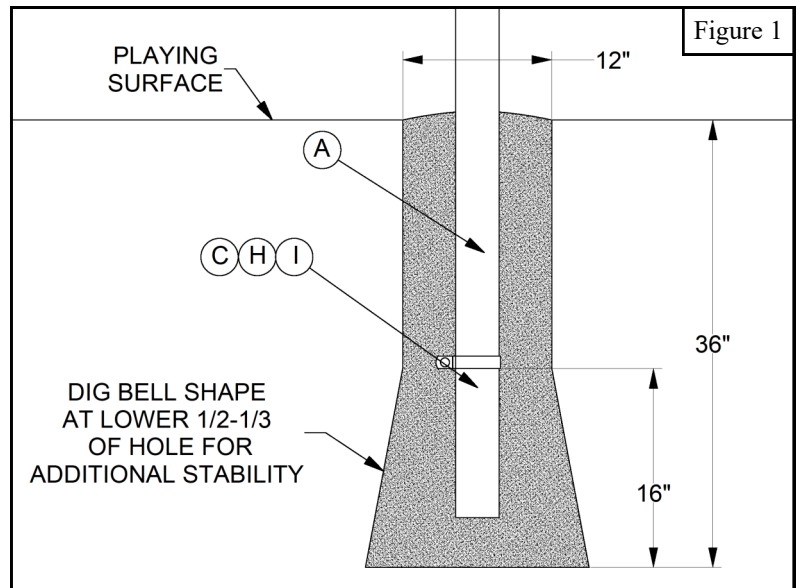
Customer Service
(800) 247-7668

PARTS LIST					
Item	Qty	Description	Item	Qty	Description
A	1	Gooseneck Pole	L	2	7/16" Lock Washer
B	1	Backboard Mounting Bracket	M	2	7/16" Hex Nut
C	3	Band Clamp	N	2	Backboard Brace
D	2	7/16" x 2" Carriage Bolt	O	2	1/2" Set Screw, Square Head
E	2	3/8" x 1" Hex Bolt	P	2	1/2" Jam Nut
F	2	3/8" Flat Washer	Q	1	Backboard (packaged separately)
G	2	3/8" Lock Washer	R	1	Rim, Mounting Hardware, & Net (packaged separately)
H	3	5/16" x 2" Carriage Bolt	S	1	1/4" x 1" Roll Pin
I	2	5/16" x 1" Carriage Bolt	T	TBD	Quick Dry Concrete (supplied by customer)
J	5	5/16" Flange Nut	U	1	Pole Pad (optional)
K	2	7/16" Flat Washer	V	1	Removable Rim Bracket Kit (PR33 only, packaged separately)

- ◆ **Inspect all contents prior to installation. Report any missing parts to dealer immediately.**
- ◆ **Read all instructions before proceeding.**
- ◆ **Save this instruction in the event that the manufacturer must be contacted in the future**

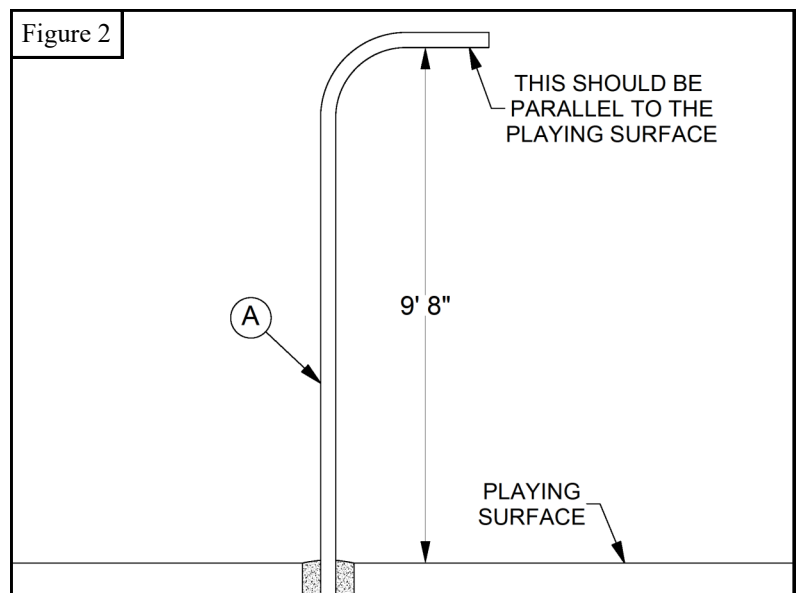
1. Call your local utility locating service, usually by dialing 811, before digging to avoid serious injury or service interruption.
2. Select the location for the concrete base footing. Note that the face of the *Backboard* (Q) will be approximately 38" from the center of the footing. Dig a 12" diameter hole that is 36" deep. Remove additional soil from the bottom 1/3-1/2 of the hole in a bell shape to add pole stability. In areas where the normal frost line is below 36" it is advisable to dig to the normal frost line. See Figure 1.
3. Make sure that you have a level and a broomstick or similar pole to vibrate air pockets out of concrete. A 12" diameter by 36" deep hole with a bell bottom will require approximately 3 cubic ft. or 3000 PSI *Quick Dry Concrete* (T). You will need to adjust the amount depending on the size of hole you prepared. Having too much is better than having too little.
4. Mix concrete according to the directions on the bag. It is advantageous to have the mixture "wet". This will increase your working time and allow batches to mix in the hole. Pour the hole full to ground level.

5. Attach one *Band Clamp* (C) with $5/16"$ x $2"$ *Carriage Bolt* (H), and $5/16"$ *Flange Nut* (I) approximately $12"$ from the bottom end of pole and insert pole into concrete while vibrating concrete to allow it to surround the pole completely. The horizontal extension section of the pole should be parallel to the playing surface, perpendicular to the intended court end line and the lower surface of the horizontal portion of the tube should be $9' 8"$ above the playing surface. You will need to brace the pole to maintain this dimension to insure the rim height will be at official $10'$. See Figure 1 & 2



6. Trowel the top of the concrete smooth and clean any excess off the *Gooseneck Pole* (A). **Allow the footing to cure for at least 48 hours.** Do not proceed any further until concrete is completely cured.

7. Attach the *Rim* (R) and *Backboard* (Q) to the *Backboard Mounting Bracket* (B) using the hardware provided with the *Rim* (R). If you purchased PR33, mount the *Removable Rim Bracket* (V) instead of the *Rim* (R) using the hardware provided with the *Removable Rim Bracket* (V). If you purchased PR33, install and remove *Rim* (R) following the instructions provided with the *Removable Rim Kit* (V). See Figure 3.



8. Slide two *Band Clamps* (C) onto the horizontal portion of the *Gooseneck Pole* (A). See Figure 4.

9. Install the *Backboard Mounting Bracket* (B), *Backboard* (Q), and *Rim* (R) assembly onto the end of the *Gooseneck Pole* (A). It is easiest to install the assembly upside down and then rotate 180° before installing and tensioning the $1/2"$ *Square Head Set Screws* (O). Confirm that the *Rim* (R) and *Backboard* (Q) are level before tightening the $1/2"$ *Square Head Set Screws* (O) against the *Gooseneck Pole* (A). Install and tighten the $1/2"$ *Jam Nuts* (P) to lock the $1/2"$ *Square Head Set Screws* (O) in place. See Figure 4

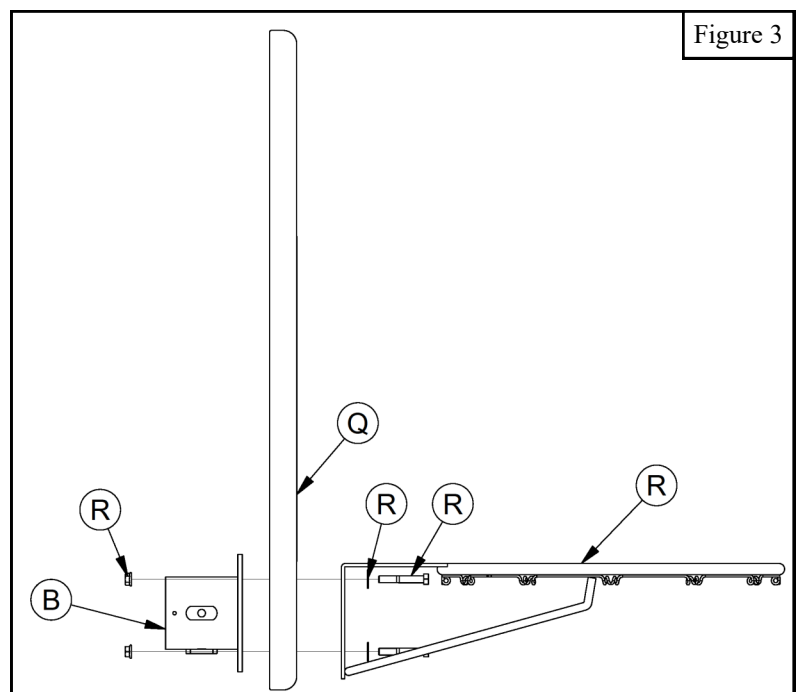


Figure 4

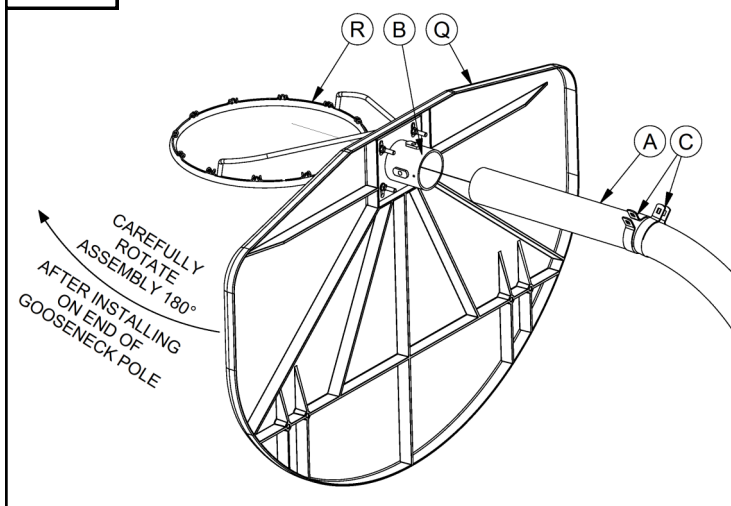
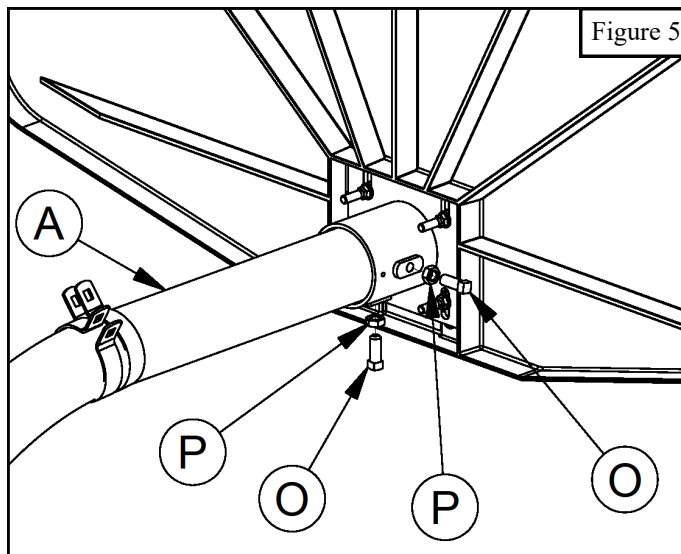
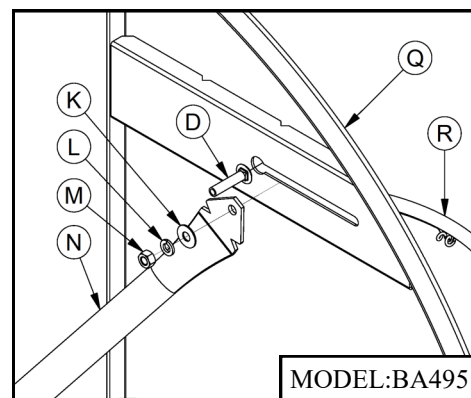
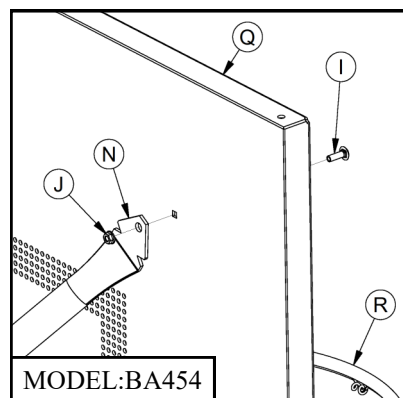
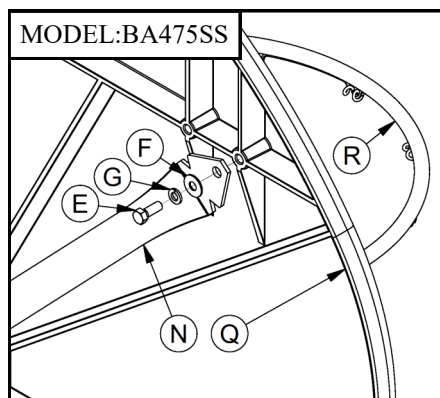


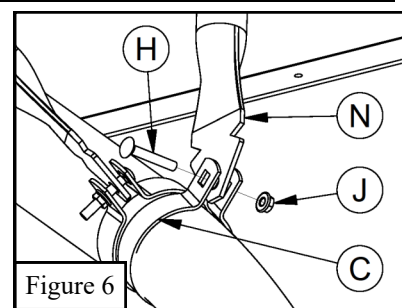
Figure 5



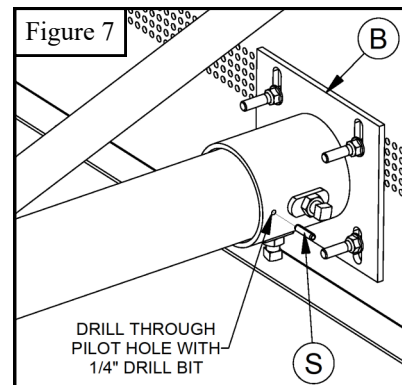
10. Referencing the illustrations below fasten *Backboard Braces* (N) to the *Backboard* (Q). Each model will require different hardware to attach the *Backboard Braces* (N) to the *Backboard* (Q). **BA475SS** requires 3/8" x 1" *Hex Bolts* (E), 3/8" *Flat Washers* (F), and 3/8" *Lock Washers* (G). **BA454** requires 5/16" x 1" *Carriage Bolts* (I) and 5/16" *Flange Nuts* (J). **BA495** requires 7/16" x 2" *Carriage Bolts* (D), 7/16" *Flat Washers* (K), 7/16" *Lock Washers* (L), and 7/16" *Hex Nuts* (M). *Backboard Braces* (N) will need to be bent on the ends to match the angles of the *Backboard* (Q) and *Band Clamps* (C). Exact angle will depend on the *Backboard* (Q) model selected. This can easily be accomplished in a number of ways, including contacting the end of the *Backboard Brace* (N) on a concrete surface. See illustrations below.



11. Attach the other ends of the *Backboard Braces* (N) to the *Band Clamps* (C) using the 5/16" x 2" *Carriage Bolts* (H) and 5/16" *Flange Nuts* (J). See Figure 6.



12. Confirm *Backboard* (Q) and *Rim* (R) are still level before drilling a 1/4" diameter hole into the *Gooseneck Pole* (A) using the pilot hole in the *Backboard Mounting Bracket* (B) as a guide. Install the 1/4" X 1" *Roll Pin* (S) into the hole you just drilled with a hammer to further reduce the risk of rotation or movement. See Figure 7



13. Attach *Net* (R) and optional *Pole Pad* (U) if applicable. The system is now ready for play.