—— Installation and Safe Use Manual ——

MODELS: BA781, BA778, BA776, BA781DB, BA778DB, BA776DB

Adjustable Height Single and Double Sided Pole Systems

Customer Service
(800) 247-7668

(Also applies to arm and brace only orders BA776A, BA778A, BA781A, BA77XBR)

PARTS LIST

Item	Qty. Single Sided	Qty. Double Sided	Description	Item	Qty. Single Sided	Qty. Double Sided	Description
A	1	1	Pole	Q*	2	4	3/8” x 1” Hex Bolt
B	1	2	Extension Arm	R*	6	8	3/8” Flat Washer
C	1	2	Backboard Mounting Adapter	S*	6	8	3/8” Lock Washer
D	2	4	Backboard Brace	T	0	4	3/8” Hex Nut
E	1	2	Extension Brace (BA781, BA781DB only)	U	0	4	3/8” x 6” Hex Bolt (BA776DB Only)
F	3	5	Band Clamps (5 on BA781, 9 on BA781DB)	V	0	4	1/2” x 7” Hex Bolt (BA778DB Only)
G	1	2	Backboard (ordered separately)	W	0	4	1/2” x 8” Hex Bolt (BA781DB Only)
H	1	2	Rim and Net (ordered separately)	X	4	8	1/2” Flat Washer (3/8” on BA776)
I	2	0	1/2” U-Bolt (3/8” on BA776)	Y	4	4	1/2” Lock Washer (3/8” on BA776)
J	1	1	Pole Caps	Z	4	4	1/2” Hex Nut (3/8” on BA776)
K	3	5	5/16” x 2” Carriage Bolt (5 on BA781, 9 on BA781DB)	AA	2	4	1/2” Square Head Set Screw
L	3	5	5/16” Flange Nut (5 on BA781, 9 on BA781DB)	BB	2	4	1/2” Thin Jam Nut
M*	2	4	7/16” x 1 1/2” Carriage Bolt	CC	1	2	1/4” x 1” Roll Pin
N*	2	4	7/16” Flat Washer	DD	1	1	Pole Pad (optional)
O*	2	4	7/16” Lock Washer	EE	TBD	TBD	Quick Dry Concrete (supplied by costumer)
P*	2	4	7/16” Hex Nut				

*Use depends on Backboard (G) model selected.

Additional quantities of some items included on BA781, BA781DB, BA776DB and BA776DB, Double Sided Pole Systems.

- 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.

WARNING!
Improper installation, maintenance or use may cause product failure and serious personal injury.

1. Call your local utility locator service, usually by dialing 811, before digging to avoid serious injury or service interruption.

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2. Select the location for the concrete base footing based on safe play area of the selected pole system. See Figure 11. Dig a 12” diameter hole that is a minimum of 36” deep, (48” deep on BA778 and BA781) 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.

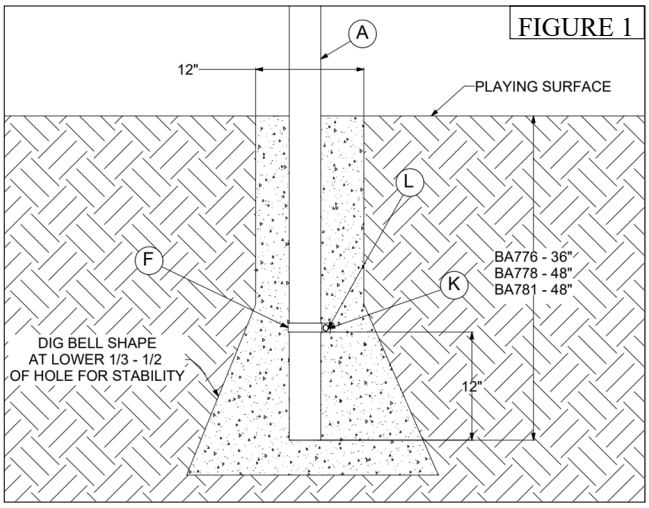


FIGURE 1

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. of 3000 PSI *Quick Dry Concrete* (EE). If the hole is 48” deep, it will require 4 cubic feet. You will need to adjust the amount depending on the size of hole you prepared. Having too much onsite is better than having too little.

4. Attach one *Band Clamp* (F) with *5/16” x 2” Carriage Bolt* (K), and *5/16” Flange Nut* (L) approximately 12” from the bottom end of pole. See Figure 1.

5. 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.

6. Consult Figure 11 to determine the proper dimensions to the top of the *Pole* (A) from the finished playing surface. Insert *Pole* (A) into the concrete while vibrating concrete to allow it to surround the *Pole* (A) completely. You will need to brace the *Pole* (A) to maintain *Pole* (A) height and insure that the *Pole* (A) stays plumb until the concrete cures.

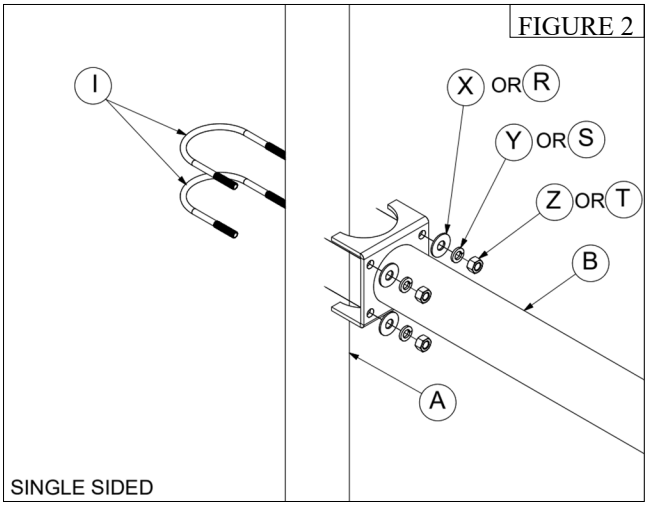


FIGURE 2

7. Trowel the top of the concrete and clean excess from *Pole* (A). **Allow the footing to cure for at least 48 hours.** Only after the concrete has cured you should proceed.

8. On BA778 and BA781 single sided pole systems attach the *Extension Arm* (B) to the *Pole* (A) using 1/2” *U Bolts* (I), *1/2” Flat Washers* (X), *1/2” Lock Washers* (Y), and *1/2” Hex Nuts* (Z). Use 3/8” hardware (R)(S)(T) on BA776 Pole Systems. See Figure 11 to determine the proper height from the bottom of the *Extension Arm* (B) to the actual playing surface. Tighten all hardware. See Figure 2.

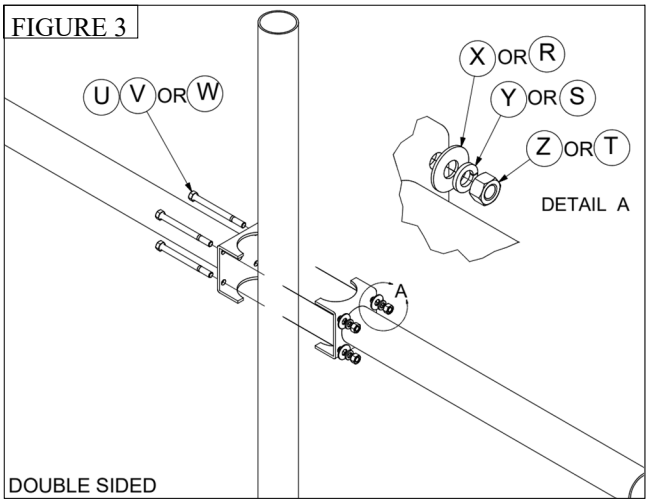


FIGURE 3

9. If you are installing a double sided adjustable height pole system, substitute appropriate size hex bolts, washers, lock washers, and nuts provided to attach two *Extension Arms* (B) back to back at the same height, then proceed to #10 below to add *Backboards* (G) and *Rims* (H). Disregard any unused hardware. See Figure 3.

10. Slide two *Band Clamps* (F) onto each *Extension Arm* (B). Attach *Rims* (H) and *Backboards* (G) to the *Backboard Mounting Adapters* (C) using the hardware provided with the *Rims* (H). See Figure 4 and Figure 5.

FIGURE 4

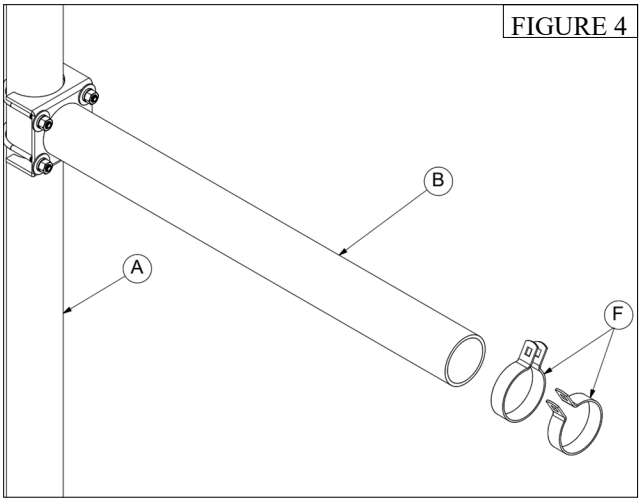
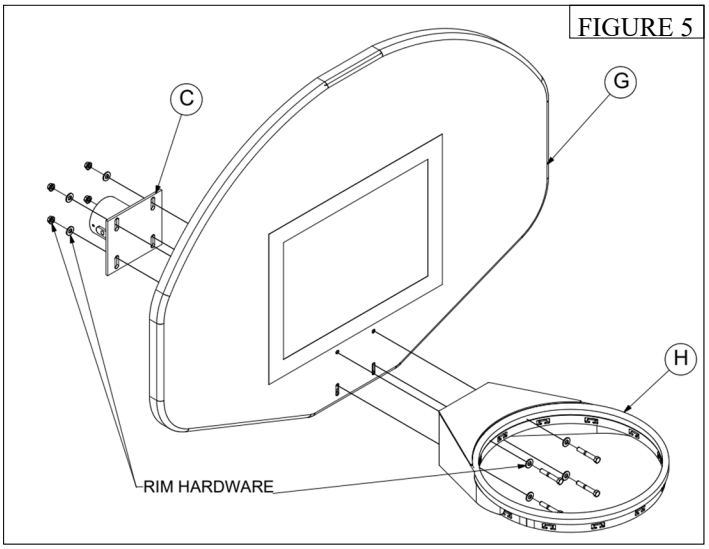
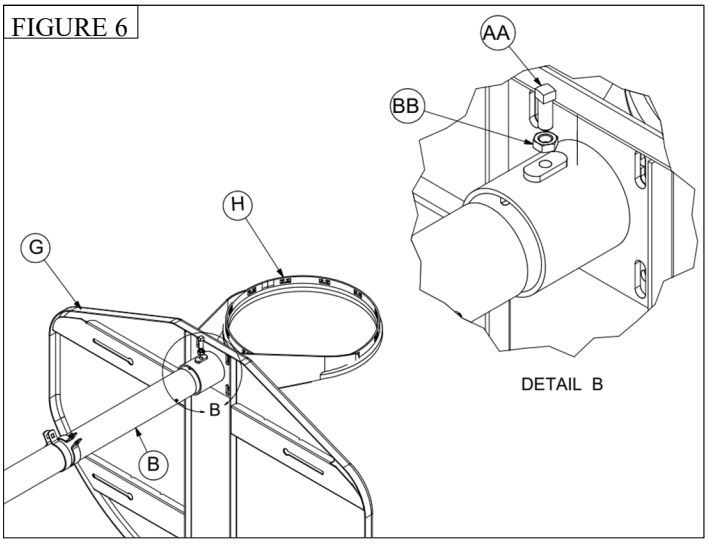


FIGURE 5



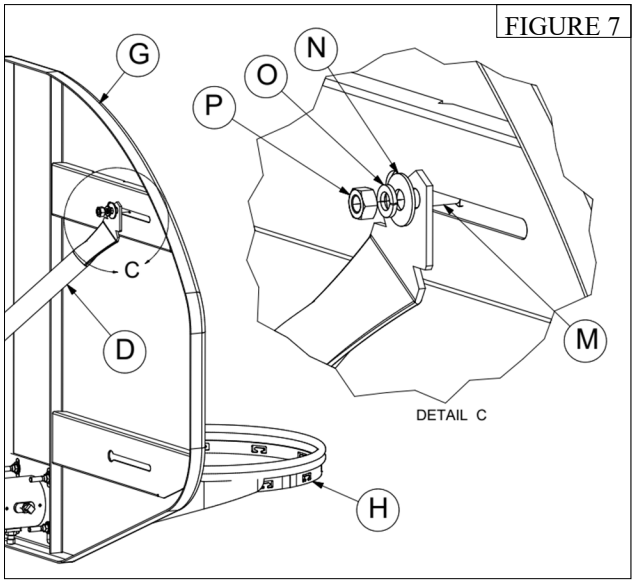
11. Place the *Backboard Mounting Adapter* (C), *Backboard* (G), and *Rim* (H) assembly on to the end of the pole. It is easiest to place assembly onto the end of the pole upside down and then rotate 180° before installing and tensioning the *1/2" Square Head Set Screws* (AA) and *1/2" Thin Jam Nuts* (BB). Confirm that the *Rim* (H) and *Backboard* (G) are level. Tighten the *1/2" Square Head Set Screws* (AA) against the *Extension Arm* (B), then tighten the *1/2" Jam Nuts* (BB) to lock the *1/2" Square Head Set Screws* (AA). See Figure 6.

FIGURE 6



12. Use the *Backboard Braces* (D) to add stability to the *Backboard* (G). Exact method of attachment will depend on the *Backboard* (G) being used. In all cases the *Backboard Braces* (D) will need to have the two ends bent to match the appropriate angle between the *Band Clamps* (F) and the mounting on the rear of the *Backboard* (G). This can easily be accomplished in a number of ways including contacting the end of the *Backboard Braces* (D) on a concrete surface. For fan-shaped or rectangular *Backboards* (G) with horizontal slots in the rear use *7/16" x 1 1/2" Carriage Bolts* (M), *7/16" Flat Washer* (N), *7/16" Lock Washers* (O) and *7/16" Hex Nuts* (P) on the backboard end. See Figure 7.
For Backboards with 3/8" threaded holes in the rear of the *Backboard* (G) use *3/8" x 1" Hex bolts* (Q), *3/8" Flat Washers* (R) and *3/8" Lock Washers* (S). In all cases the lower end of the *Backboard Braces* (D) are attached to the *Band Clamps* (F) using *5/16" x 2" Carriage Bolts* (K) and *5/16" Flange Nuts* (L) tighten all *Backboard Brace* (D) hardware only when *Backboard* (G) is plumb and rim is level.
See Figure 8.

FIGURE 7



13. Drill a 1/4" diameter hole into the *Extension Arm* (B) using the pilot hole in the *Backboard Mounting Adaptor* (C) as a guide. Insert *1/4" x 1" Roll Pin* (CC) with a hammer to reduce risk of rotation or movement. See Figure 9.

14. BA781 and BA781DB pole system includes an *Extension Brace* (E) to add additional stability to the 72" *Extension Arm* (B). Use *Band Clamps* (F), *5/16" x 2" Carriage Bolts* (K) and *5/16" Flange Nuts* (L) to attach each end of the *Extension Brace* (E) to the *Pole* (A) and *Extension Arm* (B). See Figure 10.

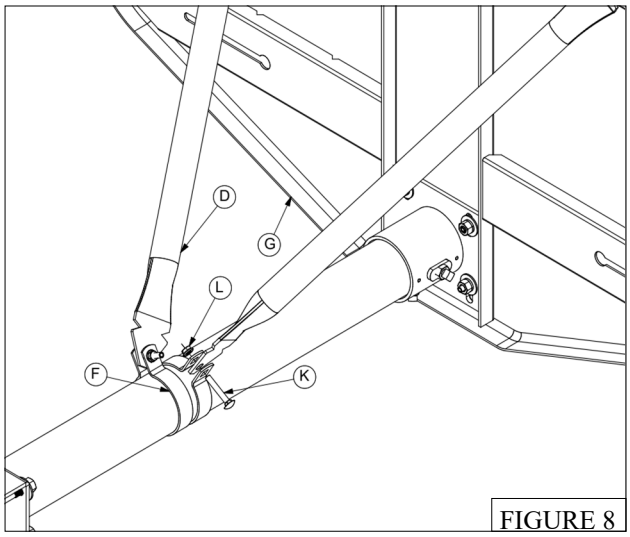


FIGURE 8

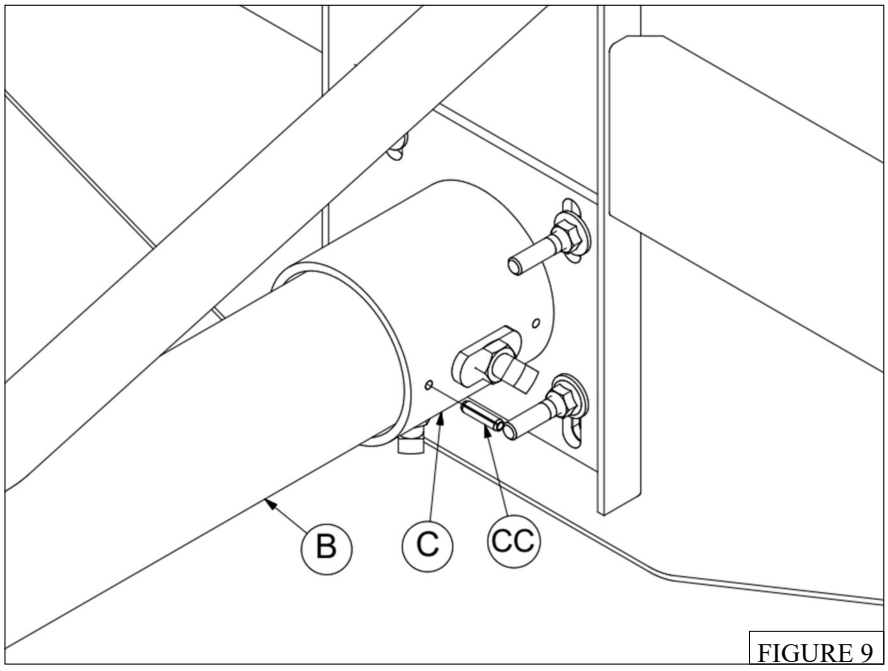


FIGURE 9

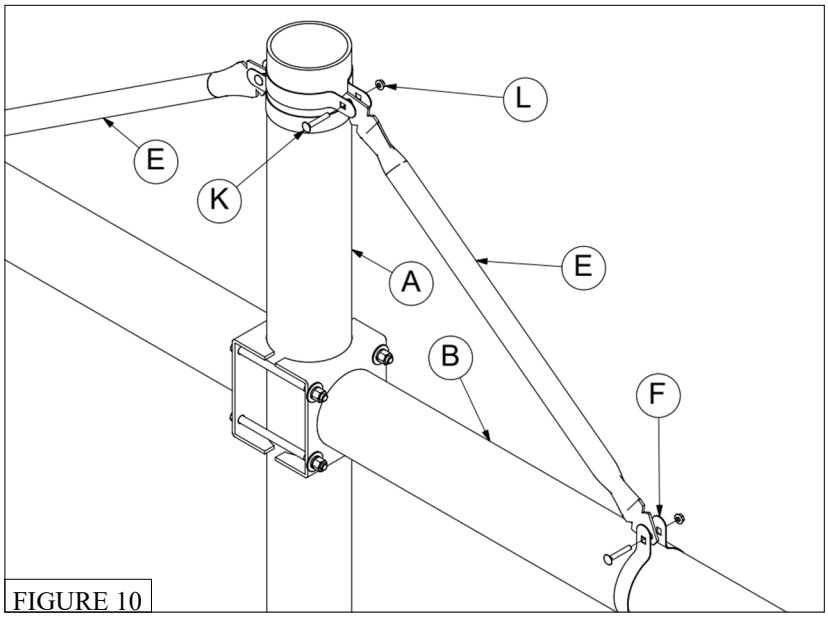


FIGURE 10

15. Attach *Nets (*H) and *Optional Pole Pads* (AA) if applicable.

16. System is ready for play.

FIGURE 11