## ADJUSTABLE BASKETBALL SYSTEM ASSEMBLY INSTRUCTIONS AND OWNER'S MANUAL

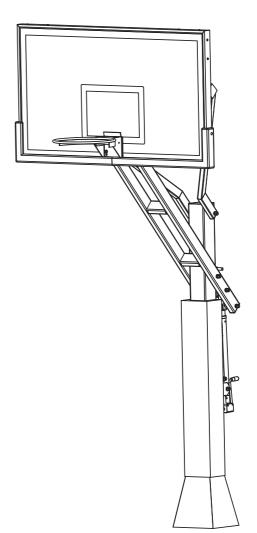
## MODEL: CV684A/CV664A



FAILURE TO COMPLY WITH ANY OF THE WARNINGS IN THESE INSTRUCTIONS MAY RESULT IN SERIOUS PERSONAL INJURY.

FAILURE TO COMPLY MAY ALSO RESULT IN PROPERTY DAMAGE. PLEASE HEED ALL WARNINGS AND CAUTIONS TO ENSURE YOUR SAFETY.

DO NOT ATTEMPT TO ASSEMBLE THIS SYSTEM WITHOUT CAREFULLY READING AND FOLLOWING ALL INSTRUCTIONS. BEGIN BY IDENTIFYING AND TAKING INVENTORY OF ALL PARTS USING THE PARTS LIST PROVIDED.



Keep this instruction manual in case you have to contact the manufacturer for replacement parts.

### TOOLS AND MATERIALS REQUIRED FOR ASSEMBLY (Not Included)

- 1. 2 Adjustable Wrenches
- 2. Socket Set
- 3. 9/16" Wrench
- 4. 3/4" Wrench
- 5. 15/16" Wrench
- 6. 1/2" Wrench
- 7. Hammer or Mallet
- 8. Tape Measure
- 9. Shovel

- 10. Concrete-1/2 yard or 14-16 Bags, (80 lb. bags)
- 11. Phillips Head Screwdriver
- 12. A minimum of 2 Ladders
- 13. Carpenter's Level
- 14. Water Supply

# \*\*A MINIMUM OF SIX ADULTS IS REQUIRED TO LIFT UNIT INTO PLACE\*\*



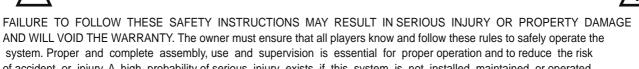
# **BEFORE YOU START**



- A. Identify and inventory all parts using the checklist boxes in the parts list. Be sure to keep the hardware bags and their contents separate.
- B. Test fit all Bolts by inserting them into the respective hole. If necessary, carefully scrape away any excess powder coating buildup from inside the holes. Do not scrape away all of the powder coating. Bare metal may rust.



# SAFETY INSTRUCTIONS



of accident or injury. A high probability of serious injury exists if this system is not installed, maintained, or operated properly.

• If using a ladder during assembly, use extreme caution. Follow all warnings and cautions on the ladder carefully. • 6 people are required to lift the unit into place. • Before digging, contact the appropriate agency to locate underground power cables, gas, and water lines. Do not install the system within 20 feet of overhead power lines. • Climate, corrosion, or misuse could result in system failure. • If technical assistance is required, contact the manufacturer. • Minimum operational height is 7'6" to the Rim. Most injuries are caused by misuse and /or failure to follow instructions. Use caution when using the system.

Verify all parts listed on packing list are present prior to installation.

$\begin{array}{c} 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 $						
PARTS LIST					1	1
ПЕМ	QTY	DESCRIPTION			14—	
A	1	Main Post			1	
В	1	Actuator				
С	2	Spring-Assist Cartridge	Some Nylon washers may be factory assembled.			
D	1	Pole and gusset padding				C +
E	1	Rim Height Sticker				1512
F	1	Main Extension Arm	ITEM		DESCRIPTION	
G H	2	Upper Extension Arm Backboard	1	2	Nylon Washer M18	
	1		2	2	Nylon Washer M16	15 12
j	1	Safety rod 20mmdia Sleeve for Spring Cartridge	3	2	Nylon Washer M12	Removable handle
ĸ	1	Rim Height Indicator	4	1	6mm Lock Pin	A 1 U5
L	1	Flex Rim (Separate pack)	5	2	Hex Bolt M18x320mm	
M	1	Rim Pad (Pre-attached)	6	1	Hex Bolt M16x295mm	
N	1	Backboard mounting bracket	7	2	Hex Bolt_M16x320mm	
	1	UND PARTS	8	1	Hex Bolt M16x185mm	
U1	1	Anchor Template	9	1	Hex Bolt M16x135mm	
U2	4	18mm Anchor J-bolts	10	2	Hex Bolt M12x70mm	U4
U3	8	Thick washer for J-bolt	11	4	Washer for M18 Bolt	U2-
U4	12	Hex nut M18	12	10	Washer for M16 Bolt	
U5	4	Anchor Rebar 36"L	13	4	Washer for M12 Bolt	
U6	4	Lock Washer M18	14	2	Lock Nut M18	
RIM HARDWARE			15	5	Lock Nut M16	
R1	4	Carriage bolt M10x55mm	16	2	Lock Nut M12	
R2	4	Washer M10	17	2	Carriage bolt M10x35mm	
R3	4	Flange nut M10	18	2	Washer M10	3
R4	4	Carriage bolt M10x110mm	19	2	Lock nut M10	J

NOTE: Before digging, call to locate any buried utility lines.

NOTE: At rim height 10', distance from the face of backboard to the front of Main Post(A) is for the concrete footing: ", Choose the proper location to dig

### STEP A

a. Dig a hole 48" deep and 21"x 21"square . The edge of the hole should be flush with the edge of the playing surface. If you live in an area where heavy frost can occur, it may pose a problem, consult your local building inspector to determine the appropriate hole depth.

NOTE: The hole must be at least 48" deep.

- b. Build a form before pouring the concrete pad, to ensure that the top of the concrete remains straight and square. The form should be placed about 1/2" above the playing surface to allow for water drainage.
- c. Bell out the bottom of the hole.

NOTE: A square hole prevents the rotation of the concrete.

NOTE: The area behind the playing surface must be cleared off by at least 3 feet to enable the user to stand behind the pole to adjust the Rim height.

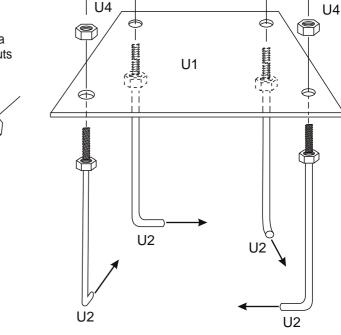


- A. Thread a 18mm Hex Nut (U4) onto each of the 18mm J-Bolts (U2). Securely tighten the Nuts all the way down to the end of the threads.
- B. Slide the threaded end of the J-Bolts through the holes in the Anchor Template (U1) and secure each J-Bolt with a 18mm J-Bolt Hex Nuts(U4) as shown. Securely tighten all Nuts at this time.

NOTE: Make sure the curved "J" ends of the J-Bolts are oriented in a rectangular pattern, as shown.

U2

114



U4

21″

48″

U4

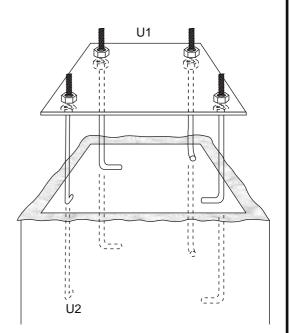
21″

#### STEP C

- a. Mix the concrete according to the instructions on the bags. Note that a thicker mix of concrete will dry stronger than a thin mix. Pour the concrete into the hole, stopping approximately 18 inches from the top of the hole.
- b. Insert the four pieces of Anchor Rebar (U5) into the hole, pushing each piece firmly to the bottom of the hole. The four pieces should be arranged in a square approximately 8 inches wide so that each piece of rebar will be positioned next to the J-Bolts when the J-Bolt Template is placed in the cement.
- c. Finish filling the hole to the top with concrete. The top of the concrete should reach just above the level of the top of the form.

#### STEP D

- a. Position the J-Bolt Template (U1) over the hole so that it is centered, with the sides of the plate square with the sides of the hole.
- b.Push the J-Bolts (U2) into the concrete until the J-Bolt Template is resting flat against the surface of the concrete.
- c. Grasp the tops of the J-Bolts and agitate the Template assembly back and forth repeatedly to eliminate any air bubbles in the concrete. Lift the Template slightly above the concrete when agitating. Make sure the Template is resting on the concrete after agitating. Form the concrete into a downward slope away from the Pole to allow water runoff.
- d. Clean off any concrete that may be on the J-Bolt Template or the exposed portions of the J-Bolts.
- e. Using a carpenter's level, make sure the Template is square to and level with the playing surface.
- f. Allow the concrete to cure for a minimum of 5-7 days before installing the rest of your basketball system. In cold , wet weather or humid climates, allow additional time for the concrete to cure.



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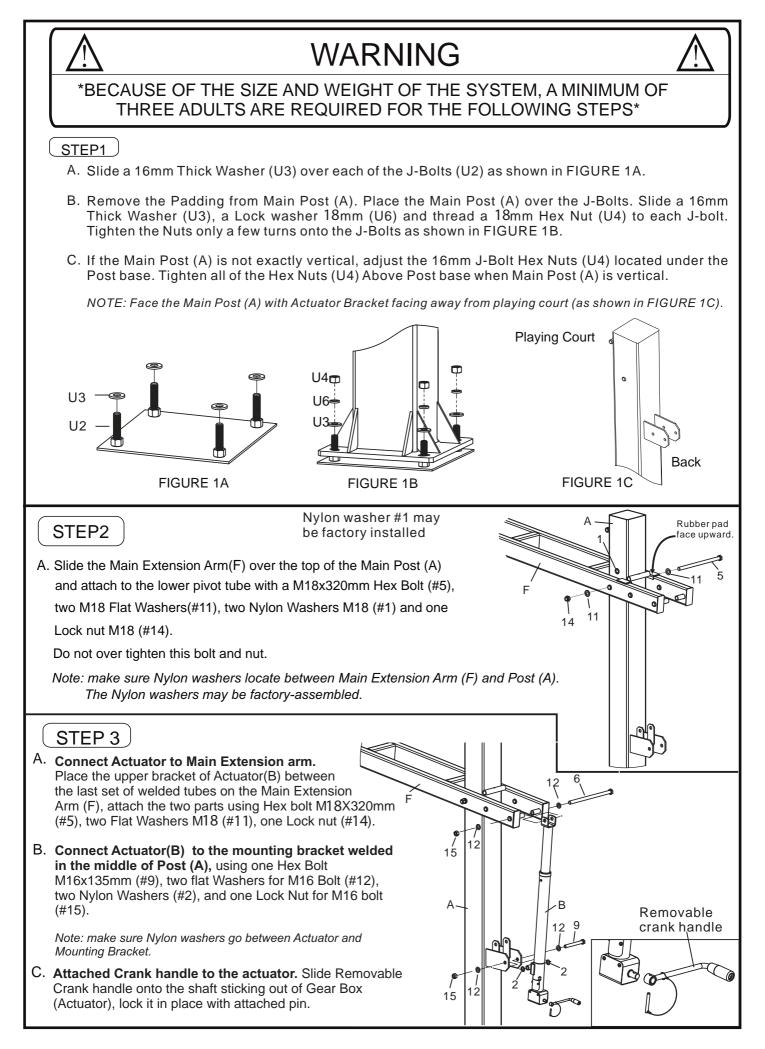
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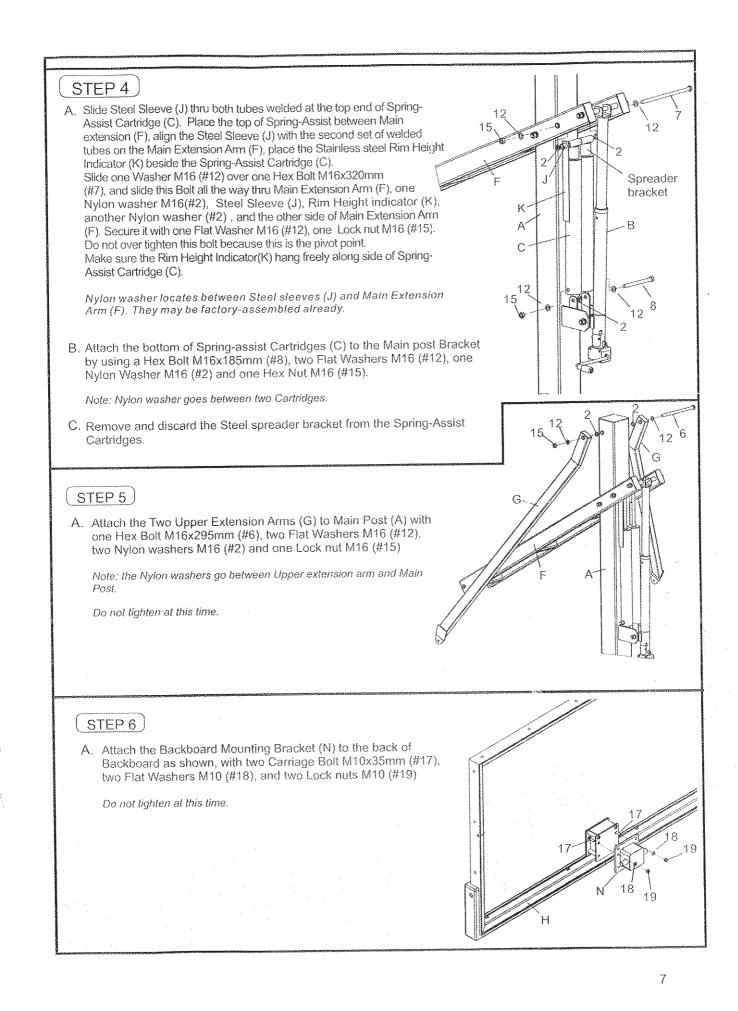
YOU ARE NOW FINISHED WITH THE INITIAL ASSEMBLY STEPS. DO NOT PRO-CEED WITH THE ASSEMBLY UNTIL THE CONCRETE HAS FULLY CURED. CUR-ING WILL TAKE A MINIMUM OF 72 HOURS. IN HUMID CLIMATES OR WET WEATHER, ALLOW ADDITIONAL TIME FOR THE CONCRETE TO CURE.

# WARNING



NEVER USE THE SYSTEM WITHOUT FOLLOWING THE CEMENTING INSTRUCTIONS . FAILURE TO FOLLOW ALL OF THESE INSTRUCTIONS AND WARNINGS COULD LEAD TO SERIOUS PERSONAL INJURY OR PROPERTY DAMAGE AS LISTED ON PAGE ONE.







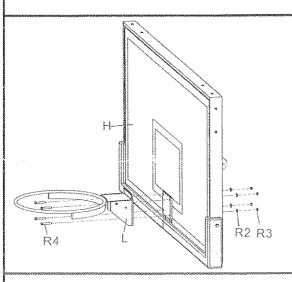
Crank the Main extension arm as low as possible.

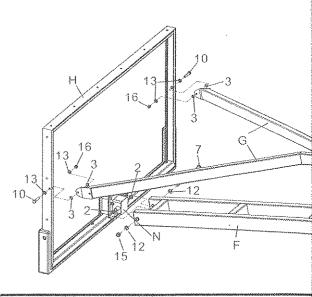
A. Attach the Backboard assembly to Main Extension Arm (F) by using a Hex Bolt m16x320mm (#7), two M16 Flat Washers(#12), two Nylon washers (#2) and one Lock Nut M16 (#15).

Note: Nylon washers go between Main extension arm Bracket (F) and Backboard mounting bracket.

B. Connect Upper Extension Arms (G) to Backboard (H), using 2 Hex bolts M12x70mm (#10), 4 Flat Washers M12 (#13), 4 Nylon washers M12 (#3) and 2 Lock nuts M12 (#16).

Note: Put Nylon washers on both side of Upper extension connecting plate.





#### STEP 8

A. Remove the screws on Rim spring box cover, open the Spring box.

(Rim Spring Box cover may not be factory-assembled.)

- B. Mount the rim to the Mounting bracket on Backboard (H) using the hardware supplied in rim box (Carriage bolt M10x110mm -long one).
  Lift the backboard a little bit to align holes if needed.
- C. Re-attach Spring box cover to the Rim with removed screws.

NOTE: Use a level to make sure rim is level side to side before tightening nuts.

Tighten the two bolts and nuts used in STEP 6.

