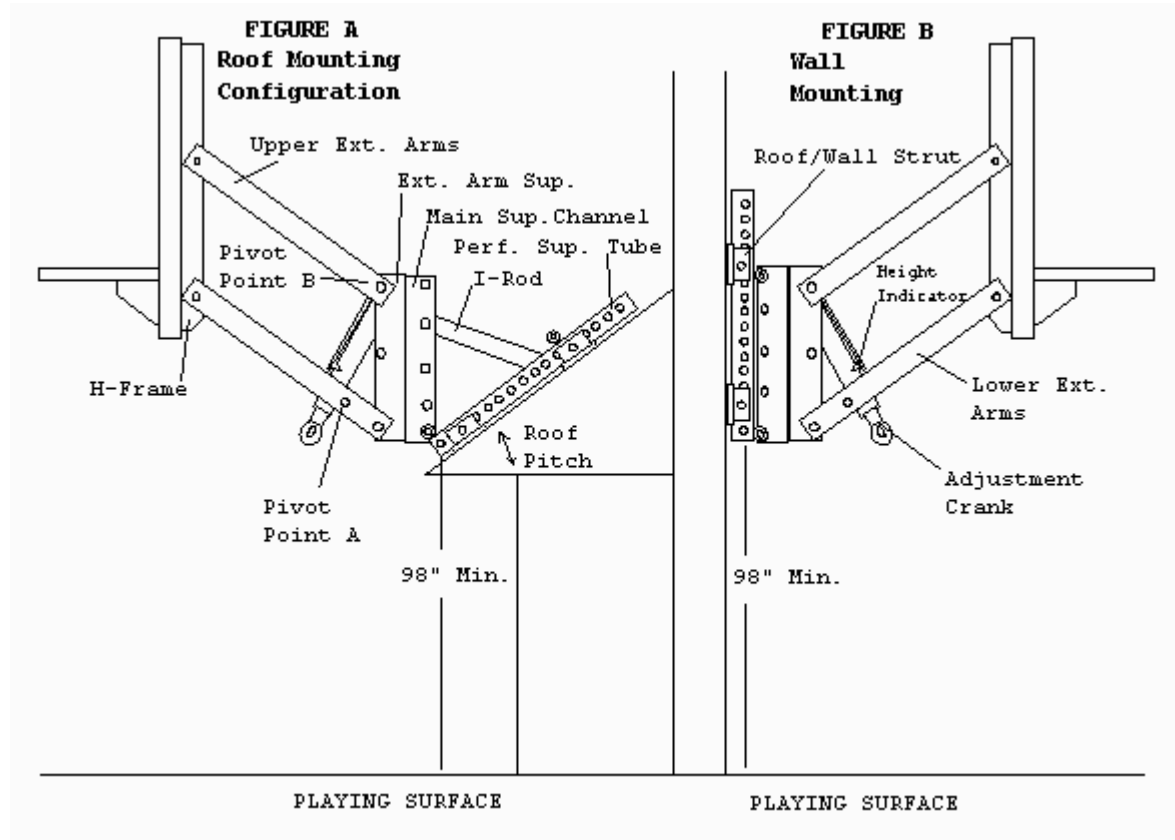


# FIRST TEAM SPORTS, INC

## RoofMaster Assembly Instructions



### Bill of Materials

A (2) Roof/Wall Strut	L (1) Rim Height Stickers	W (4) 1/2" x 1 1/2" Hex Bolt
B (2) Perforated Tube	M (1) 3/8" x 13" Hex Bolt	X (1) 1/2" x 8" Hex Bolt
C (1) I-Rod	N (4) 3/8" x 2 1/2" Hex Bolt	Y (4) 1/2" x 12" Hex Bolt
D (1) Main Sup. Channel	O (10) 3/8" Flatwasher	Z (1) 1/2" x 13" Hex Bolt
E (1) Ext. Arm Support	P (5) 3/8" Lockwasher	AA (12) 1/2" Nylon Flatwasher
F (2) Upper Ext. Arm	Q (5) 3/8" Hex Nut	BB (4) 5/16" x 1" Mach. Screw
G (2) Lower Ext. Arm	R (4) 1/2" x 4 1/2" Hex Bolt	CC (4) 5/16" Flatwasher
H (1) H-Frame	S (8) 1/2" Lockwasher	DD (4) 5/16" Lockwasher
I (1) Adjustment Crank	T (8) 1/2" Hex Nut	EE (4) 5/16" Hex Nut
J (1) Height Indicator	U (6) 1/2" Locknut	FF (2) Lift Spring
K (1) Crank Handle	V (4) 1/2" Flatwasher	GG (1) Anti-Seize Lubricant

**NOTE: Immediately unpack all components and cross check against bill of materials. Report any shortages to First Team customer service at 1-888-884-6677.**

### **WARNING!! WARNING!! WARNING!! WARNING!! WARNING!!**

Proper installation of this basketball structure requires adequate roof or wall structure integrity. Consult with an architect or engineer if you are uncertain about whether your roof or wall is sufficient to

support this structure adequately.

**WARNING!! WARNING!! WARNING!! WARNING!! WARNING!!**

Because each installation situation is unique, the anchoring hardware required to attach this system to your roof/wall is not included with the unit. It is up to you to determine what hardware is suitable for your particular installation. It is advisable to consult with an architect or engineer if you are unsure about selecting the appropriate mounting hardware. Inadequate or improper installation of this basketball system can result in serious injury or death!

Read and understand all instructions completely before proceeding with installation.

**IMPORTANT!!! IMPORTANT!!! IMPORTANT!!!**

**WITH THIS BASKETBALL GOAL YOU SHOULD HAVE RECEIVED SOME ANTI-SEIZE LUBRICANT. DURING ASSEMBLY YOU WILL PERIODICALLY BE ASKED TO SMEAR A GENEROUS PORTION OF THIS LUBRICANT ON CERTAIN BOLTS. THIS LUBRICANT IS VERY IMPORTANT AND VERY MESSY AND WILL STAIN. HAVE CLEAN UP RAGS AVAILABLE. IF YOU DO NOT WISH TO STAIN YOUR HANDS TRY USING A BRUSH OR OTHER UTENSIL TO SPREAD LUBRICANT. MAKE SURE TO SPREAD A GENEROUS LAYER OF ANTI-SEIZE LUBRICANT OVER THE ENTIRE SHAFT OF THE BOLT WHEN INSTRUCTED. DO NOT APPLY ANTI-SEIZE LUBRICANT TO ANY BOLTS OTHER THAN THOSE INSTRUCTED. THIS LUBRICANT WILL GUARD AGAINST RUST, AND HELP ENSURE PROPER PIVOT OPERATION IN YEARS TO COME.**

Your RoofMaster basketball system is designed to be mounted to either a pitched roof (0-45 degree) or vertical wall surface. If you plan to mount your RoofMaster to your rooftop follow the instructions below under the heading "Roof Mounting." If you are mounting to a vertical wall surface, skip to the section under "Wall Mounting."

## **ROOF MOUNTING**

1. Using (4) 3/8"x 2 1/2" hex bolts, flatwashers, lockwashers & hex nuts, assemble the (2) roof/wall struts to the (2) perforated support tubes as shown in Figure C. Be sure to place (1) 3/8" flatwasher between the welded tabs on the roof/wall struts and the perforated support tubes to prevent paint wear. Just attach bolts finger tight for now. You may need to adjust their positioning later. Don't worry about "Distance A" (Figure C), "Distance A" will vary depending on your particular configuration.
2. Next, using (2) 1/2"x 4 1/2" hex bolts, lockwashers, & hex nuts attach the main support channel to the front pivot tubes welded to the front of the perforated supports as shown in Figure D. **Spread Anti-Seize lubricant on both of these bolts, (do not get lubricant on bolt threads).**
3. The next step is to position the assembly on your roof to determine the appropriate configuration for your roof pitch. Place the structure on your roof as shown in Figure A. Using (1) 1/2"x 8" hex bolt and locknut attach one end of the I-Rod to the Main Support Channel and the other end to one set of pre-drilled holes in the perforated tubes using (1) 3/8"x 13" hex bolt, (2) flatwashers, (1) lockwasher and (1) hex nut. The various holes in the perforated tubing are provided so that you may attach the I-Rod in the appropriate holes to level the Main Support Channel front-to-back as shown in Figure A. It may be necessary to relocate the backside roof/wall strut if it obstructs the necessary attachment for the I-Rod. **Spread Anti-Seize lubricant on the shaft of both of these bolts, (do not get lubricant on bolt threads).**
4. Secure the entire assembly to the roof as shown in Figure A. It is important that the bottom of the

Perforated Support Tubes be no lower than 98" above the playing surface (shown in Figure A). If this point is lower than 98" the unit may not adjust fully to 10'. Additionally, make certain the entire assembly is sitting squarely on the roof (not at an angle) before fixing structure to the roof. This will insure that the backboard will be square with your playing surface. **HARDWARE FOR SECURING ASSEMBLY TO ROOF IS NOT SUPPLIED AND IS THE RESPONSIBILITY OF THE CUSTOMER.**

NOTE: After you are satisfied that the structure is adequately fastened to the roof and that the roof is adequate to support the weight of this basketball system, you may proceed with the rest of the installation.

5. Using (4) ½"x 1½" hex bolts, flatwashers, lockwashers and hex nuts fasten the Extension Arm Support to the Main Support Channel. The channels bolt together in a face-to-face fashion. You have been supplied (4) extra nylon flatwashers. These flatwashers can be sandwiched between the channels if necessary to "fine tune" the front-to-back leveling of the Extension Arm Support. Simply place one or two nylon washers at each of the upper or lower attachment points to pitch the Extension Arm Support forward or back. Additionally, adjust the side-to-side level of the Extension Arm Support. When you are satisfied with both the "front-to-back" and "side-to-side" leveling of the Extension Arm Support, tighten all hardware. **ATTN: Make sure the Extension Arm Support is right-side-up. The welded tabs inside the channel should be at the top.**

6. Attach the Lower Extension Arms using (1) ½"x 12" hex bolt, (2) nylon flatwashers and (1) ½" locknut. Place one nylon flatwasher between the extension arm and the extension arm support. The nylon washers eliminate paint wear and provide free movement at the pivot points. Remember, the nylon flatwashers go BETWEEN the extension arms and the side of the extension arm support.

7. Attach the Upper Extension Arms using (1) ½"x 12" hex bolt, (2) nylon flatwashers, and (1) ½" locknut. Additionally, while attaching the extension arms make sure to also attach the Adjustment Crank. The yoked clevis of the adjustment crank should be cradled between the two welded tabs at the top of the extension arm support. Also attach the Rim Height indicator at this time. The welded tube on the rim height indicator fits between the yoked clevis on the adjustment crank. NOTE OF CLARIFICATION: The Upper Extension Arms, Adjustment Crank and Rim Height Indicator are all attached using the same ½"x 12" hex bolt mentioned above.

8. Next, using (1) ½"x 13" hex bolt and locknut attach the bottom end of the adjustment crank to the set of welded tubes on the lower extension arms as shown in Figure A. **Spread Anti-Seize lubricant on the shaft of this bolt.**

9. Bolt the H-Frame to the extension arms using (2) ½"x 12" hex bolts, (4) nylon washers and (2) ½" locknuts. Remember to place the nylon washers between the extension arms and the sides of the H-Frame.

10. Unpackage backboard. IF YOU PURCHASED AN ACRYLIC (plexiglass) BACKBOARD you will find two rubber gaskets packaged in with the backboard. One gasket goes behind the backboard between the H-Frame and the backside of the board. You will use the other gasket later in the assembly to be used on the face of the backboard between the rim and the face of the backboard. This eliminates any steel-to-acrylic contact.

11. IF YOU PURCHASED A TEMPERED GLASS BACKBOARD you should find (4) grommets mounted in the four rim holes in the glass. If the grommets are not there, check in the box, they may have fallen out during shipping. If the grommets are missing and cannot be located, DO NOT PROCEED WITH INSTALLATION, call First Team immediately for replacements, 1-888-884-6677.

Grommets prevent glass breakage when tightening rim bolts.

12. Remove and discard the plastic shipping strap located at the top of the backboard frame joint.

13. Hang backboard on H-Frame lining up the four holes at the top of the backboard frame with the four holes in the top of the H-Frame. Loosely attach board at these four points using the 5/16" hardware that came with the backboard.

14. Loosely attach backboard to H-Frame at the four points along the bottom of the backboard frame as well. Use the 5/16" hardware provided in the bolt kit. Remember, IF YOU HAVE AN ACRYLIC BACKBOARD, make sure to get the gasket sandwiched between the backboard and the face of the H-Frame. (We recommend tape to hold it in place during assembly) Also, be sure the holes in the backboard and the holes in the H-Frame are aligned so the rim bolts will be able to pass thru when attaching rim.

15. IF YOU PURCHASED A TEMPERED GLASS BACKBOARD, check once again to make sure all (4) grommets are in place in the backboard rim mounting holes. When you are satisfied with rim hole/H-Frame alignment, attach rim following the instructions provided in the rim box. Then tighten the 5/16" hardware at both the top and bottom of the backboard frame.

16. Next, using a measuring tape crank unit until rim measures 10' from playing surface. Make a pencil mark on the side of the adjustment crank where the height indicator stops. Repeat this step for 9 ½', 9', 8 ½', 8', 7 ½', 7', 6 ½' and 6'. When finished peel and apply each rim height sticker lining up the pencil mark with mark provided on each respective sticker.

NOTE: If the system is mounted at a point higher than 8' (see Figure A) the unit may not be adjustable to the 6' range. Utilize as many height stickers as is appropriate for your application.

17. Next, using the adjustment handle, crank unit upward as far as possible. Then attach (2) lift springs from pivot point A to pivot point B as shown in Figure A. You may find it helpful to loop a rope over pivot point B and attach it to one end of the spring. Then with the spring already attached to pivot point A pull down on the rope, extending the spring until it hooks itself over pivot point B.

18. Make sure all hardware has been tightened. If unit is difficult to crank you may have over tightened the bolts at the main pivot points, try loosening them slightly. Check over the unit periodically to make sure no hardware has loosened as the unit ages.

Installation of your First Team RoofMaster Basketball System is complete!

TIP: Find a safe and handy location to store your crank handle. If you ever lose your crank handle, replacements can be purchased by calling First Team at 1-888-884-6677. We hope you enjoy your RoofMaster basketball system.

## **WALL MOUNTING**

1. Using (4) 3/8"x 2 ½" hex bolts, flatwashers, lockwashers & hex nuts, assemble the (2) roof/wall struts to the (2) perforated support tubes as shown in Figure C. Be sure to place (1) 3/8" flatwasher between the welded tabs on the roof/wall struts and the perforated support tubes to prevent paint wear. Just attach bolts finger tight for now. You may need to adjust their positioning later. Don't worry about "Distance A" (Figure C), "Distance A" will vary depending on your particular configuration.

2. Next, using (4) ½"x 4 ½" hex bolts, lockwashers, & hex nuts attach the main support channel to the

front and back pivot tubes welded to the perforated supports as shown in Figure E. **Spread Anti-Seize lubricant on both of these bolts, (do not get lubricant on bolt threads).**

3. The next step is to position the assembly on your wall. Position structure on wall as shown in Figure B. It is important that the bottom of the perforated support tubes be no lower than 98" above the playing surface (shown in Figure B) If this point is lower than 98" the unit may not adjust fully to 10'.

4. Secure the assembly to wall. **HARDWARE FOR SECURING ASSEMBLY TO WALL IS NOT SUPPLIED AND IS THE RESPONSIBILITY OF THE CUSTOMER.** While securing structure to wall it is important to place a level on the side of the Main Support Channel to insure that the structure is level side to side before finishing attachment. Adjust as necessary until level.

NOTE: After you are satisfied that the structure is adequately fastened to the wall and that the wall is adequate to support the weight of this basketball system, you may proceed with the rest of the installation.

5. Continue installation by skipping back to #5 under **Roof Mounting** and follow instructions from that point.

FIGURE C

Top View

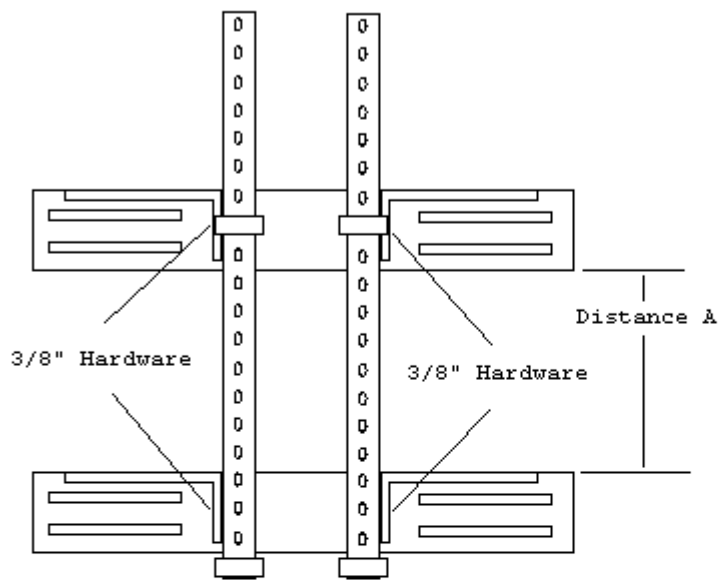


FIGURE E

Side View

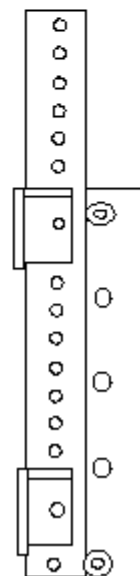
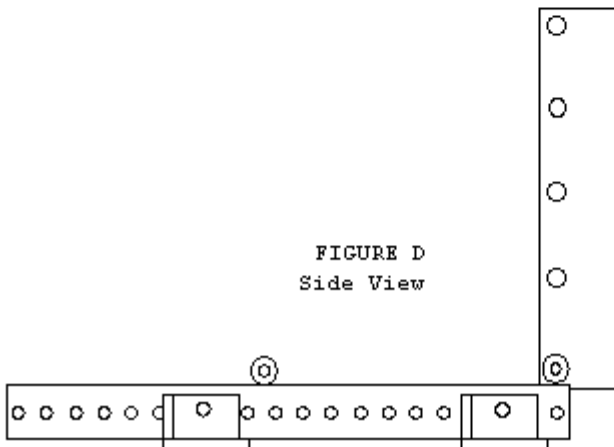


FIGURE D

Side View



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