

FIRST TEAM SPORTS, INC.

INVADER™ EZ-CRANK

PORTABLE BASKETBALL GOAL

ASSEMBLY INSTRUCTIONS

Revised - 04/15/10



BILL OF MATERIALS

(1) BASE TANK	(1) BACKBOARD MOUNT	(2) 5/16" X 3/4" HEX BOLT
(1) LOWER POST	(2) SPRING CUP	(2) 5/16" X 1 1/2" HEX BOLT
(1) MID POST	(2) RIM SPRING	(1) 5/16" X 2 1/2" HEX BOLT
(1) TOP POST	(1) FLEX GOAL	(4) 5/16" X 4" HEX BOLT
(2) POLE BRACE	(1) POST CAP	(18) 5/16" FLAT WASHER
(2) TRANSPORT WHEEL	(1) NET	(9) 5/16" LOCK NUT
(1) AXLE ROD	(2) 2 3/4" MOUNT SPACER	(2) 3/8" X 3 1/2" HEX BOLT
(8) ARM SPACER (1/2")	(2) CRANK SPACER (7/8")	(2) 3/8" LOCK NUT
(1) ACTUATOR	(1) ACTUATOR CAP	(5) 1/2" X 7" HEX BOLT
(1) ACTUATOR HANDLE	(1) 1/8" X 1 1/4" SCREW	(10) 1/2" FLAT WASHER
(1) PLASTIC TUBE	(1) 1/8" LOCK NUT	(5) 1/2" LOCK NUT
(1) BACKBOARD	(4) 5/16" X 5/8" HEX BOLT	

PLEASE NOTE: HARDWARE DESCRIBED ABOVE IS AMERICAN STANDARD. HARDWARE PROVIDED MAY BE METRIC EQUIVALENT. IT IS RECOMMENDED TO HAVE AN ADJUSTABLE WRENCH AVAILABLE DURING ASSEMBLY.

1. Unpackage all components and cross check against bill of materials to make sure all parts and hardware are included. If any parts are missing, call First Team toll free 1-888-884-6677 immediately.
2. Place BASE TANK on the ground on a flat, solid working surface.
3. Locate the 3" diameter LOWER POST section. The vertical post is comprised of 3 sections, the LOWER POST section is the one with the threaded connectors welded in the middle of the post. NOTE: One end of the post is "reduced" in diameter, this is the top end.
4. Locate the 3" diameter MID POST section. It is the section that has a hole drilled at both ends of the post and two additional holes drilled approximately 12.5" and 14.5" from the bottom end of MID POST. Again, the "reduced" end of the post goes to the top.
5. Insert the reduced end of the LOWER POST into the bottom end of MID POST until the holes line up for the joint attachment bolt. If the posts do not seat together easily, tap them 4 to 5 times onto a scrap piece of wood.

6. Attach LOWER POST to MID POST at the post joint using (1) 3/8" x 3.5" hex bolt (2) 3/8" flatwashers and (1) 3/8" locknut as shown. BE CERTAIN TO INSERT BOLT WITH BOLT THREADS PROTRUDING OUT THE BACK SIDE OF POST – AWAY FROM PLAYING AREA!!!!

7. Following the procedure laid out above, attach the TOP POST section to the MID POST section and secure using (1) 3/8" x 3.5" hex bolt (2) 3/8" flatwashers and (1) 3/8" locknut. BE CERTAIN TO INSERT BOLT WITH BOLT THREADS PROTRUDING OUT THE BACK SIDE OF POST – AWAY FROM PLAYING AREA!!!! REMEMBER TO TAP POST SECTIONS TOGETHER ON A PIECE OF WOOD TO MAKE SURE SECTIONS ARE "SEATED" TIGHTLY TOGETHER!



8. There is a post receiver section on the front of the BASE TANK. While a second person holds the post assembly in position on the BASE TANK, attach the TRANSPORT WHEELS and the post assembly to the BASE TANK using the 1/2"x 22" AXLE ROD included. NOTE: AXLE ROD runs through both wheels and through hole drilled in the bottom of the LOWER POST section.



9. Next, attach (2) POLE BRACES to the threaded attachments on the LOWER POST and to the BASE TANK attachment holes as shown. Each POLE BRACE attaches to the LOWER POST using (1) 5/16" x 5/8" hex bolt and (1) 5/16" washer. The POLE BRACES attach to the BASE TANK using (1) 5/16" x 3/4" hex bolt, (2) flatwasher and (1) 5/16" locknut. (place a flatwasher on top and bottom side of BASE TANK when attaching

POLE BRACE)



10. ATTENTION!!! ATTENTION!!! REMOVE PLUG AT BACK OF BASE TANK AND FILL BASE TANK WITH SAND! DO NOT PROCEED WITH ASSEMBLY UNTIL BASE TANK HAS BEEN COMPLETELY FILLED WITH SAND. BASE TANK must be filled with sand before completing assembly. Sand provides necessary ballast to guard against tipping. WITHOUT PROPER BALLAST IN PLACE UNIT MAY TIP OVER CAUSING SERIOUS INJURY OR PROPERTY DAMAGE!!!



SAND IS RECOMMENDED! USE OF WATER AS BALLAST IS UNSAFE AND IS STRICTLY PROHIBITED!

11. Attach ACTUATOR BRACKET to MID POST using (2) 5/16" x 4" hex bolt, (4) flat washer and (2) 5/16" locknut as shown. NOTE: FOR SAFETY, ATTACH ACTUATOR BRACKET SO THREADED PORTION OF BOLT PROTRUDES AWAY FROM PLAYING AREA. HEADS OF BOLTS SHOULD BE ON THE FRONT SIDE OF MID POST!



12. Attach LOWER ARMS to TOP POST using (1) 1/2" x 7" hex bolt, (2) flat washer, (1) 1/2" locknut and (2) ARM SPACER as shown. NOTE: ARM SPACERS are sandwiched BETWEEN the LOWER ARMS and the TOP POST to prevent metal to metal contact.



13. Attach UPPER ARMS to TOP POST using (1) $\frac{1}{2}$ " x 7" hex bolt, (2) flat washer, (1) $\frac{1}{2}$ " locknut and (2) ARM SPACER as shown. NOTE: ARM SPACERS are sandwiched BETWEEN the UPPER ARMS and the TOP POST to prevent metal to metal contact.

14. Assemble ACTUATOR. Attach ACTUATOR HANDLE to the bottom of the ACTUATOR using small $\frac{1}{8}$ " x $1\frac{1}{4}$ " screw and lock nut. NOTE: IF NOT ALREADY ASSEMBLED, SLIDE PLASTIC TUBE OVER ACTUATOR BODY as shown (holes to the top).

15. Attach the ACTUATOR to the ACTUATOR BRACKET using (1) $\frac{5}{16}$ " x $2\frac{1}{2}$ " hex bolt, (2) flat washer and (1) $\frac{5}{16}$ " locknut as shown.

16. Attach upper end of ACTUATOR to LOWER ARMS using (1) $\frac{1}{2}$ " x 7" hex bolt, (2) flat washer, (1) $\frac{1}{2}$ " locknut and (2) CRANK SPACER ($\frac{7}{8}$ "). NOTE: ARM SPACERS are sandwiched BETWEEN the LOWER ARMS and the ACTUATOR to keep ACTUATOR centered on $\frac{1}{2}$ " bolt.



17. Lay BACKBOARD face down on a working surface.

18. Your BACKBOARD MOUNT is designed with a notch on both sides that allows the BACKBOARD MOUNT to be bent into a "Y" shape. Bend BACKBOARD MOUNT into a "Y" shape as shown.



19. Lay BACKBOARD MOUNT onto back side of BACKBOARD lining up the four rim holes in the BACKBOARD with the four rim holes in the BACKBOARD MOUNT. Also, make sure the holes at the top of the BACKBOARD MOUNT match up to the threaded inserts in the BACKBOARD.

20. Using (2) 5/16" x 4" hex bolt, (2) SPRING CUP, (2) RIM SPRING, (2) flat washer and (2) 5/16" hex nut attach FLEX GOAL (TOP HOLES) to BACKBOARD and BACKBOARD MOUNT as shown. NOTE: The heads of the hex bolts should be on the front face side of backboard with the flat washers and hex nuts on the back side of BACKBOARD MOUNT. Hex bolts will pass through SPRING CUP, SPRING, FLEX GOAL, BACKBOARD AND BACKBOARD MOUNT.

21. Using (2) 5/16" x 1 1/2" hex bolts, (4) flat washer and (2) 5/16" lock nut, attach FLEX GOAL (BOTTOM HOLES) to BACKBOARD and BACKBOARD MOUNT.

22. Next, using (2) 5/16" x 5/8" hex bolts and flatwashers, secure left and right top sides of BACKBOARD MOUNT to threaded inserts in BACKBOARD plastic structure. CAUTION!!!! DO NOT OVERTIGHTEN HEX BOLTS!! TIGHTEN UNTIL SNUG!



23. Attach BACKBOARD/BACKBOARD MOUNT/FLEX GOAL assembly to the ends of the LOWER ARMS and UPPER ARMS using (2) 1/2" x 7" hex bolt, (4) flat washers, (2) 1/2" locknut, (4) ARM SPACERS and (2) 2 3/4" long BACKBOARD MOUNT SPACERS. NOTE: BACKBOARD MOUNT SPACERS fit inside the BACKBOARD MOUNT to help prevent over tightening 1/2" hex bolts. (See photo)



24. Check over unit to make sure all hardware is tightened adequately (NOT TOO TIGHT).

25. Place POST CAP on top of post.

26. Place ACTUATOR CAP on top of ACTUATOR.

26. Hang net.

To transport unit, tip forward and roll as shown below.



Congratulations! Assembly of your INVADER E-Z crank adjustable basketball goal is complete. Always read and obey all notices and warnings.

