IRONCLAD SPORTS , INC GAME CHANGER

ADJUSTABLE BASKETBALL SYSTEM
ASSEMBLY INSTRUCTIONS AND OWNER'S MANUAL

MODEL: GC55-LG GC55-MD



WARNING



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.



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

SAFETY INSTRUCTIONS

FAILURE TO FOLLOW THESE WARNINGS MAY RESULT IN SERIOUS INJURY AND/OR PROPERTY DAMAGE.

FAILURE TO DO THESE SAFETY INSTRUCTIONS MAY RESULT IN SERIOUS INJURY, PROPERTY DAMAGE AND WILL VOID WARRANTY.

Owner must ensure that all players know and follow these rules for safe operation of the system.

and supervision is essential for proper operation and to reduce the risk of accident or injury. A high probability of serious injury exists if this system following the instructions carefully. Proper and complete assembly, use To ensure safety, do not attempt to assemble this system without is not installed, maintained, and operated properly.

- If use a ladder during assembly, use extreme caution.
- 4 people are recommended for this operation.
- Seat the pole sections properly (if applicable). Failure to do so could allow the pole sections to separate during play.
- Before digging, contact utility company to locate underground power cables, gas and water lines. Ensure there are no overhead power lines within 20 ft. (7m) radius of pole location.
- Climate, corrosion or misuse could result in system failure.
- If technical assistance is required, contact us:

♠ WARNING

FAILURE TO DO THESE WARNINGS MAY RESULT IN SERIOUS INJURY AND/OR PROPERTY DAMAGE. Owner must ensure that all players know and follow these rules for safe operation of the system.

- Only hang from the rim briefly to regain balance or avoid injuring others.
 Release the rim as soon as possible safely.
- During play, especially when performing dunk type activities, keep palyer's face away from the backboard, and net. Serious injury could occur if teeth/face come in contact with backboard, rim, or net.
 - Do not slide, climb, or play on pole.
- When adjusting height, keep hands and fingers away from moving parts.
- Do not allow children to adjust system.

 During play, do not wear jewelry (rings, watches, necklaces, ets.) Objects may entangle in net.
 - Keep water and organic material away from pole. Pole can rust and fail.
- Check pole and all metal parts
 regularly for rust. completely remove
 rust and repaint with exterior enamel. if
 rust has penetrated any steel parts,
 replace that part immediately.
 - Check system before each use for loose hardware, signs of rust and instability. Repair before each use.
- Wear a mouthguard when playing to

GC55-LG GC55-MD G H. 3 В PARTS LIST ITEM QTY DESCRIPTION **RIM HARDWARE Bottom Pole** Hex bolt M10x55 mm R1 Washer M10 В 1 Top Pole R2 С Actuator R3 Flange nut M10 D Actuator plastic sleeve 1 HARDWARE LIST Mounting plate ITEM QTY DESCRIPTION Ε 2 F 1 Main Extension Arm 14 Nylon Washer M12 G 2 Upper Extension Arm 2 Stud M12x235 1 Backboard 3 Η 3 Hex bolt M12x205 Τ 1 Flex rim 4 Hex Bolt M12x105mm J 1 Rim Height Sticker 5 1 Steel Sleeve Rim Pad (Pre-attached) 2 K 1 6 Hex bolt M12x55 L Crank 7 Hex Bolt M12x30mm 4 Pole padding Flat washer M12 Μ 8 24 9 12 Nylon nut M12 **UNDERGROUND PARTS** U1 Anchor Template 10 Self-tapping screw U4-U6 U2 16mm Anchor J-bolts 11 4 1 Screw drive socket U3 U3 8 Thick washer for J-bolt 12 2 End plug 25x50mm U4⁻ U5 U4 U1⁻ 12 Hex nut M16 13 4 End plug 30x60mm U4 U5 4 Anchor Rebar 36"L 14 End plug 5"x5" 1 U2 15 U6 Lock Washer M16 4 End plug 1/2"dia

Note: GC55-MD comes without backboard pad and pole padding.

INSTALLATION (Day 1 to Day 4)

Prior to anchor system and goal assembly, call utility services for location of underground utility lines before you dig.

This assembly needs 5 days totally.

Day 1: Anchor system installation. **Day 2-4**: Allow concrete to cure.

Day 5: Complete basketball system installation.

THREE PEOPLE ARE NEEDED TO ASSEMBLE THIS UNIT

Figure2

Tools and materials required for assembly

- 1. Hammer or Mallet
- 2. Two Adjustable Wrenches
- 3. 9/16" Wrench
- 4. 3/4" Wrench
- 5. 11/16" wrench
- 6. 1" Wrench
- 7. Shovel

- 8. Concrete 9 Bags (80lbs/bag).
- 9. Electric Drill
- 10. Carpenter's Level
- 11. A minimum of two Ladders
- 12. Water Supply
- 13. Tape measure

Day 1

Anchor system installation

1. Locate your system close to or on the court. Dig a hole as shown in figure 1. Bell out the bottom.

Assemble anchor system as shown in fugure 2: Thread nut M16 (U4) all the way to bottom of threads on J-bolt (U2) insert threads of J-bolt (U2) through hole on anchor plate (U1) and secure with nut (U4).

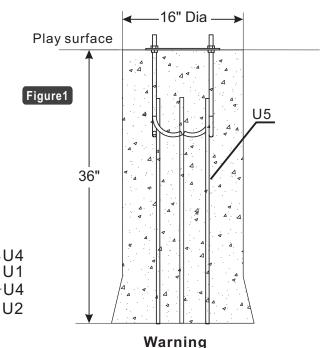
Note: Each leg of anchor bolts should face the anchor bolt to the right. See Figure 2.

- 2. Mix and pour concrete into hole. follow instructions on concrete bag. Stop about 8" below playing surface.
- Insert 4 Rebars (U5) into concrete 8" apart making a square in center on hole.
- **4.** Continue to pour concrete into hole. Use a concrete form or wooden form for top 4", until concrete flush with playing surface.
- **5.** Push anchor system into concrete and agitate to eliminate voids in concrete, level and square anchor plate (U1) to playing surface. Clean off any concrete on anchor plate and exposed threads.

You are finished with anchor system. Allow concrete cure a minimum of 72hrs.



Before digging hole for anchor system, check for buried power, gas, water, and telecommunication lines! Failure to do so could result in serious or fatal injury! Contact your local utility company if unsure.



Never continue to assemble your system without following cementing instructions. Failure to do so may cause serious personal injury or property damage.

INSTALLATION (Day5)

Figure 5

0

Hit

Drive a Self-

tapping screw into this hole with supplied socket in

Front

Small gusset

on front side

hardware pack.

A hammer or mallet may be needed during assembly.

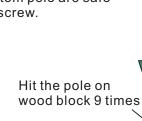
Note: do not over tight all arm nuts and bolts. Failure to do so may cause tube damage and make adjustment of system difficult.

1. Align the Top Pole (#2) with the Bottom Pole (#2) and slide them together. See Figure 3&4.

Important: Make sure the pole looks like Figure 4 before moving to next step. If the pole are installed into place without proper alignment, it is almost impossible to take the two pieces apart for relocation.

- 2. Stand the pole up on a block of wood, hit the bottom pole base plate on wood block until the bottom of Top Pole reaches (or get very close to) the line mark on the back of the Bottom pole. Hit it 9 times at least.
- Drive a Self-tapping screw all the way into the hole on the bottom of Top pole with supplied socket in hardware pack.
 This screw is just for in case. The connection

This screw is just for in case. The connection between Top Pole and Bottom pole are safe enough without using the screw.



4. Place the Pole on the Anchor system. Slide one Thick washer M16 (U3) over each J-bolt (U2). Lift the Pole (A) onto Anchor system, secure with one thick washer (U3), one Lock washer M16 (U6) and one Hex nut (U4) for each J-bolt. See Figure 6.

If the Main Post (A) is not exactly vertical, adjust the 16mm J-Bolt Hex Nuts (U4) located under the Post base (A). Tighten all of the Hex Nuts (U4) Above Post base when Main Post (A) is vertical.

NOTE: Face the Main Post (A&B) with Actuator Bracket facing away from playing court (as shown in FIGURE 7).

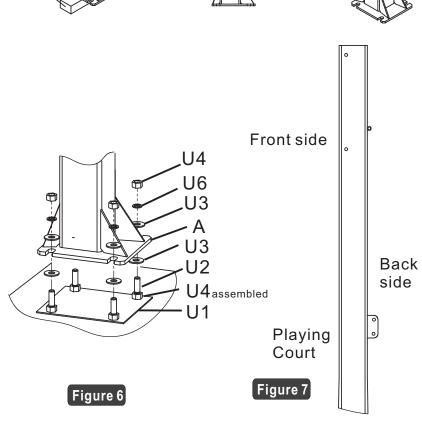


Figure 4

Top Pole

Bottom pole

Big gusset

on back side

Back

Mounting

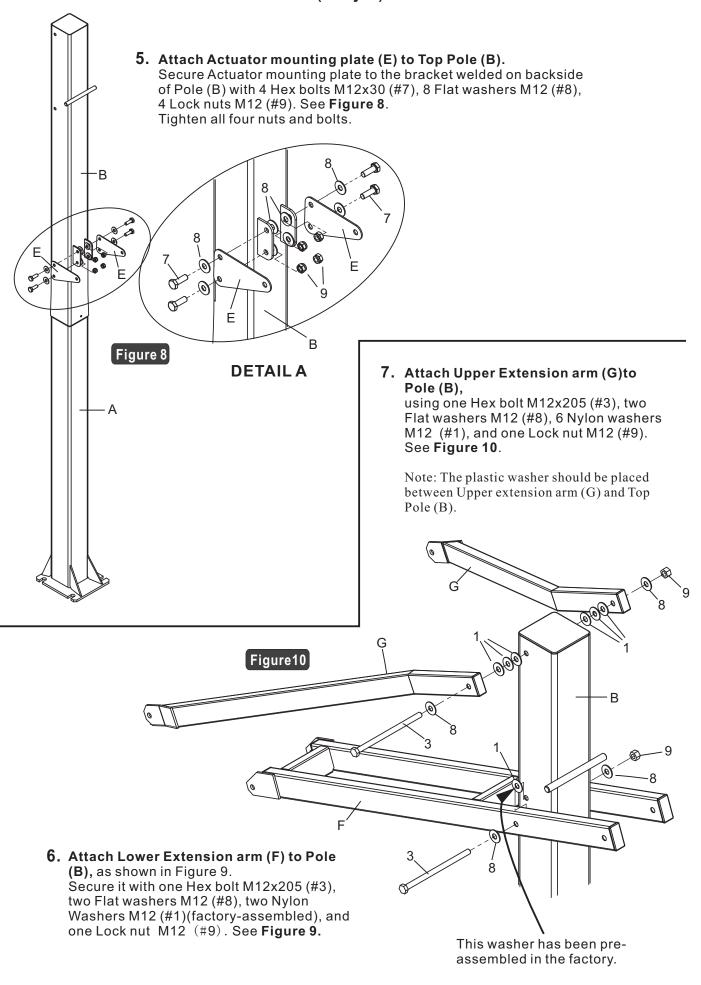
Actuator

bracket for

Figure 3



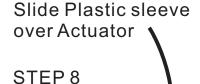
INSTALLATION (Day5)



8. Attach Actuator (C) to Lower extension Arm (F).

Slide Actuator plastic sleeve (D) over top of Actuator (C), align the hole in the Plastic sleeve with the hole in the Actuator, slide one Steel Sleeve (#5) thru both parts, see Figure 8. Hold the Actuator assembly, align Steel Sleeve with the Rear hole of Lower extension Arm (F), Attached them together with one Hex bolt M12x205 (#3), two Flat washers M12 (#8), Two Nylon washers (#1) and one Lock nut M12 (#9). Do not over tighten the bolts.

Figure 11



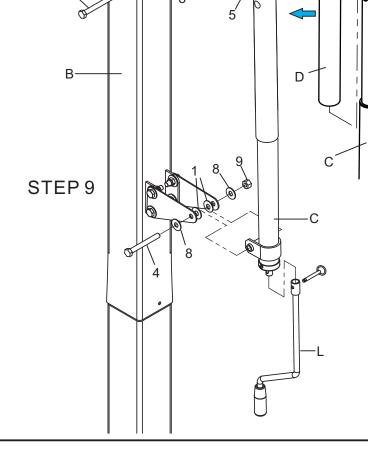
Attached Actuator (C) to Actuator mounting plate (E). See Figure 11

Attach Crank (L) to the bottom of Actuator with supplied Lock pin.

Crank Actuator in between two Mounting plate (E), secure them together with one Hex bolt M12x105 (#4), two Flat washer M12 (#8), two Nylon washers M12 (#1), and one Lock nut (#9).

Do not over tighten this bolt.

Note: make sure Plastic washers go between Mounting plate (E) and Actuator (C). It prevents painted parts from being scratched.



3

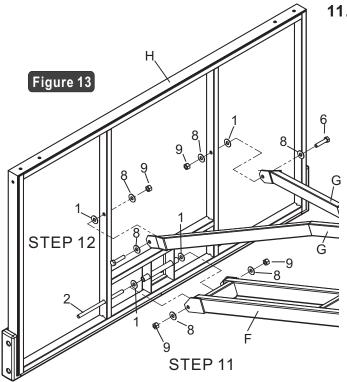
R1 R2 Figure 12 R2 R3

10. Attach Goal (I) to Backboard (H).

Remove the Rim box cover, put Goal against Rim pad (Pre-installed), secure it with 4 Hex bolts M10x45 (R1), 8 Flat washers M10 (R2), 4 Flange nuts M10 (R3) See Figure 12.

Tighten all four bolts and nuts.

Put Rim box cover back and secure it with removed screws.



11. Attach Backboard (H) to Lower Extension arm (F). Turn crank to lower support frame (F) until against

safety stop rod welded on the back of Top Pole (B).

With 3 capable adults, raise the Backboard and rim assembly up and connect Lower Extension arm (F) to the Backboard Bracket using one Stud M12x235 (#2), 2 washers M12 (#8), 2 Plastic washers M12 (#1), and 2 Lock nuts M12 (#9).

Tighten this bolt snugly. See Figure 13.

- 1. Slide the Stud thru from outside of Vertical tubes. After the stud is installed, plug end caps into the holes on the vertical frame, to keep bees from holes. 4pcs plugs can be found in the hardware pack or manual pack.
- 2. The plastic washer goes between backboard bracket (H) and Lower extension arm (F).

12. Attach Backboard (H) to Upper Extension arm (G).

Connect Upper board arm (G) to the Backboard vertical frame (H) using 2 Hex bolts M12x55 (#6), 4 Flat washers M12 (#8), 2 Plastic washers M12 (#1), and two Lock nuts M12 (#9).

Tighten the two bolts and nuts snugly.

See Figure 13.

Note: The plastic washer goes between backboard vertical frame (H) and Upper extension arm (G).

13. Apply Rim Height Sticker

Use a tape measure to crank rim up to exactly 10' from playing surface. Make a line mark on the Actuator (C) against bottom edge of Actuator Sleeve (D).

Crank the rim all the way down to the extreme end. Peel and apply Rim Height sticker (J) to outside of Actuator (C) lining up the mark with the 10' mark on the Rim Height Sticker.

See Detail B.

Apply Pole pad if available.

