

3500 MASTER BREAK-AWAY GOAL
Installation, operation, and Maintenance Instructions



WARNING

Failure to follow proper installation procedures can result in damage to goal and possible injury to personnel.
Read and understand all installation instructions before proceeding.

TOOLS REQUIRED:

#2 Phillips Screwdriver, 9/16" wrench, and level

INSTALLATION:

- 1) Remove goal and hardware from box and inspect for shipping damage.
- 2) Remove the four cover plate screws and cover plate.
- 3) Remove the two carriage bolts from the hardware bag along with two nuts and washers.
- 4) Install the carriage bolts through the top two goal mounting holes on the backboard, making sure the head of the bolt is on the goal side of the board. Install a washer and nut on each bolt and leave the about 1/2" of space between the board and the head of each bolt.
- 5) Slip the goal over the heads of the carriage bolts (the carriage bolt heads will fit through the large keyhole at the top of the back plate) and slide the goal down onto the bolt. The goal should be fully seated on each carriage bolt. Tighten the carriage bolt nuts enough to pull the goal firmly to the backboard.
- 6) If the backboard is a 42" glass board with two studs in the lower goal mounting position, install a washer and nut from the goal hardware bag and tighten by hand.
All other boards will require the use of the hex head bolts in the lower goal mounting holes. Install the hex bolts from the front and install a washer and nut on the backside of the board. Tighten hand tight.
- 7) Torque the stud nuts to 9 – 11 Ft.-Lbs. Torque all bolt nuts to 15 – 20 Ft.-Lbs.
- 8) Place cover plate over the goal base and secure with the 4 self-tapping screws. Make sure all four screws are tight to prevent vibration and noise from the cover.
- 9) Install the net.

MAINTENANCE:

- 1) Twice annually, remove the cover plate and spray the swing rod and bushings with penetrating lubricant. Lock-Ease® graphite spray is recommended.
- 2) Annually remove the cover plate and inspect moving components for wear, welds for cracks, and goal for overall condition.

OPERATION:

This goal has been designed and manufactured to meet all NCAA and NFSHSA specifications. The goal is factory set to deflect at 165 lbs.

See reverse side for adjustment instructions.



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Adjustment Instructions

The NCAA requires goals to meet a specified range measured with the Fair Court measuring system. The NCAA requirements are 35% to 50% on the goal. The goals on the playing court must also be within 5%. There are several factors that can affect the measurements. The tightness of the rim to the backboard, the backboard connection, and the setting of the rim are the main factors. As an example a loose rim can make the measurement read 12% to 15% higher than the actual setting of the goal.

Gared goals are designed to allow adjustment for setting the rims. The procedure for adjustment is as follows:

1. Using a Phillips screwdriver, remove the four cover plate screws and cover plate.
2. First make sure the rim is securely tightened to the backboard. All four mounting bolts must be tight with no movement of the rim back plate to the board. If the rim bolts are loose, tighten the bolts to make sure the rim is secure and retest.
3. Make sure the backboard is secure to the mounting structure. If the board mounting is loose, tighten the mounting bolts and retest.

There are three (3) adjustment points for the rim. Two vertical return springs and one horizontal breakaway spring.

Tools Required – Phillips Screwdriver, 9/16” wrench, 7/32” Allen Wrench

The model 3000 goal is preset at the factory to 165 lbs breakaway force and 40% to 44% Fair Court measurement.

Adjusting the horizontal spring will change the measurement, but it also affects the breakaway force. One complete turn of the nut on the horizontal spring will change the measurement by 1% to 1.7%. Adjusting the vertical springs will change the measurement, but also affects the amount of return on the goal. Both vertical springs must be adjusted equally. One turn of the vertical springs will change the measurement by 1% to 1.5%.

DO NOT adjust any of the spring nuts more than ¼” from their original factory position.

4. Take a baseline measurement and record the average reading.
5. When the average reading is too high, the springs will need to be tightened to lower the measurement. When the average reading is too low, the springs will need to be loosened to raise the measurement.
6. Adjust the springs in the following sequence until the desired measurement is achieved:
 - a. Tighten or loosen the horizontal spring 1 turn. The 9/16” wrench will be required for this adjustment. Retest
 - b. Tighten or loosen the horizontal spring 1 additional turn. Retest
 - c. Tighten or loosen the vertical springs 1/2 turn. Retest
Note: Both springs must be adjusted equally. The 9/16” wrench and 7/32” Allen wrench will be required for this adjustment.
 - d. Tighten or loosen the vertical springs an additional 1/2 turn. Retest
 - e. Repeat steps a through d if additional adjustment is required.

NOTE: If adjustments larger than ¼” on any of the springs is required, contact a Gared customer service representative for assistance.

7. Replace the cover plate and install the four cover plate screws. Tighten the cover plate screws securely.



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