



IN STOCK
ST14U

Customer Service
(800) 247-7668

1'- 4' Fan & Rectangle

Item	Qty	Description	Item	Qty	Description
A	4	Extension Assembly	J	4	Saddle Clamp Half
B	3	2" x 8" x 84" Wall Boards	K	1	1/4" Allen Wrench
C	2	Chain Eye Brackets	L	8	7/16" x 1 1/2" Carriage Bolt
D	2	3/16" Proof Chain 60"	M	8	7/16" Flat Washer
E	12	3/8" x 2 1/2" Flange Elevator Bolt	N	8	7/16" Lock Washer
F	16	3/8" Hex Nut	O	8	7/16" Hex Nut
G	20	3/8" Flat Washer	P	2	Turnbuckle
H	16	3/8" Lock Washer	Q	2	Chain Connector
I	4	3/8" x 2 1/2" Hex Bolt	R	2	Chain Connector Bracket

CAUTION !!!

Wall mount structures require a minimum ceiling and wall height as well as an acceptable wall mounting surface. Brick, block, or poured concrete walls are superior. It is inadvisable to mount structures to walls with wood or steel studs unless additional work approved by an engineer is done to provide additional support. Bison does not provide wall anchors with any structure. The purchaser assumes liability for the installation of any wall mounting structure. Consult a professional architect, engineer, or contractor to determine safe methods of installation to your facility's wall construction.

Note!!!

All assembly materials are supplied except hardware to attach the wall board to the customer's wall. Attachment method and type of anchor used are the responsibility of the installer.

- ◆ Inspect all contents prior to installation. Report any missing parts to dealer immediately.
- ◆ Read all instructions before proceeding.

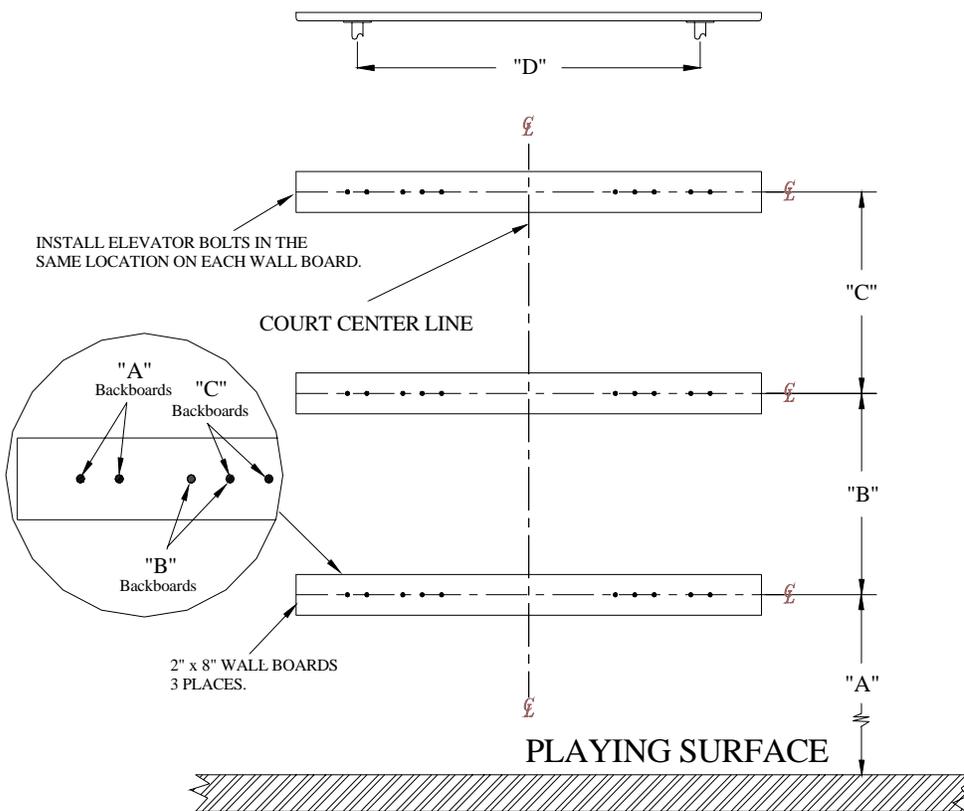
TOOLS/MATERIALS REQUIRED

1 each Hammer	1 each Level
1 each 9/16" , 5/8"Wrench	1 each Hand drill & 3/8" drill bit
1 each Adjustable wrench	1 each Tools for mounting wall boards
1 each Pliers	Suitable wall anchors and drill bits

1. Using the Wall Board Layout Diagram (**Fig 1**), determine the appropriate pre-drilled holes on the 2"x 8" wall boards (B). Using a hammer, install the flanged elevator bolts (E) into the back of each wall boards in the appropriate holes (**Fig 2**).

WALL BOARD LAYOUT DIAGRAM.

FIGURE 1



Mount Holes	Bison Backboard Models	DIM "A" FROM PLAYING SURFACE
"A"	BA42XL	9' 9 1/2" +/-1/4"
"C"	BA495, BA47, BA407, BA407C, BA44XL, BA465	10' 2" +/-1/4"
"A"	BA42E, BA472, BA455	9' 9 1/8" +/-1/4"
"A"	BA48	9' 3" +/-1/4"
"B"	BA407G	9' 9 1/2" +/-1/4"
"C"	BA485	10' 1 3/4" +/-1/4"

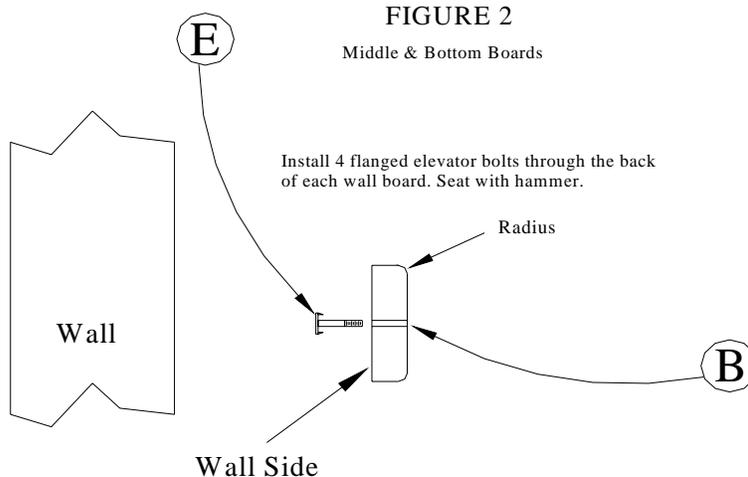
Bison Backboard	Dimension "B"
BA42XL, BA407G	35 1/2" +/-1/4"
BA495, BA47, BA465, BA485, BA407, BA407C, BA44XL	20" +/-1/4"
BA42E, BA472, BA455	36" +/-1/4"
BA48	42" +/-1/4"

Distance: Wall to Face of Backboard	Dimension "C"
2' to 3'	2' +/- 1"
3' to 4'	3' +/- 1"
over 4'	4' +/-1"

Center to Center Distance For Extension Assemblies	Dimension "D"
"A"	62"
"B"	42"
"C"	35"

FIGURE 2

Middle & Bottom Boards



2. Mount *chain eye brackets* (C) to the top *wall board* using $3/8$ " *flat washers* (G), $3/8$ " *lock washers* (H), and $3/8$ " *hex nuts* (F). This wall board assembly will be mounted in the top position on the wall (**Fig 3**). **Top board, chain eye brackets, chains, ect. are optional for extensions of 2' or less.**

3. Mark the center line of the court on the wall. Fasten the 3 *wall boards* to the wall at the heights indicated on the chart and centered with the center line of the court (**Wall Board Layout Diagram**). Drill holes in *wall boards* according to position and type of wall anchor chosen.

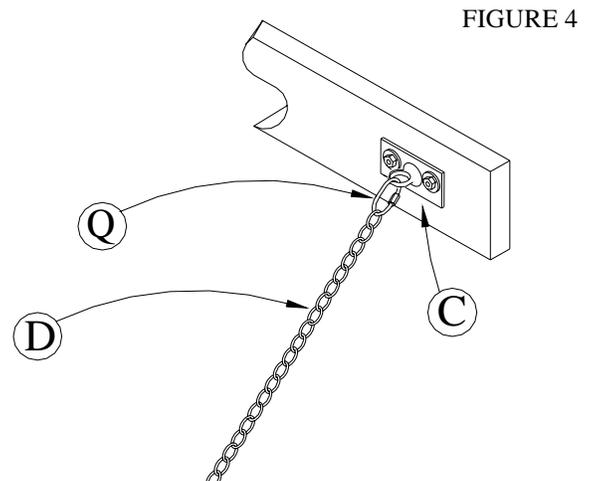
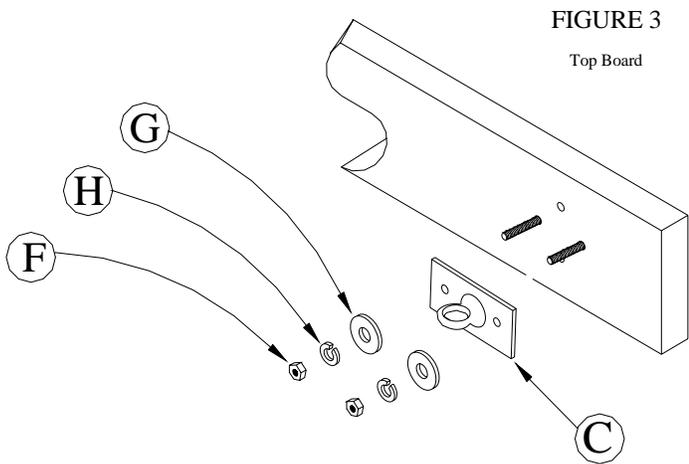
Anchor each wall board in no less than four places. If the wall is masonry (Brick over block), block, or poured concrete **and** it's possible to drill through the wall **and** you have access to the other side of the wall it is strongly recommended that the installer bolts through the wall using $1/2$ " bolts.

Warning!!!

Severe injury to players or fans may result from failure to select a proper anchoring system given the construction and condition of the wall or the improper use of the proper anchoring system.

Note!!!

Bison model **BA950** Fail-Safe Structure Catch is strongly recommended for systems installed over bleachers.



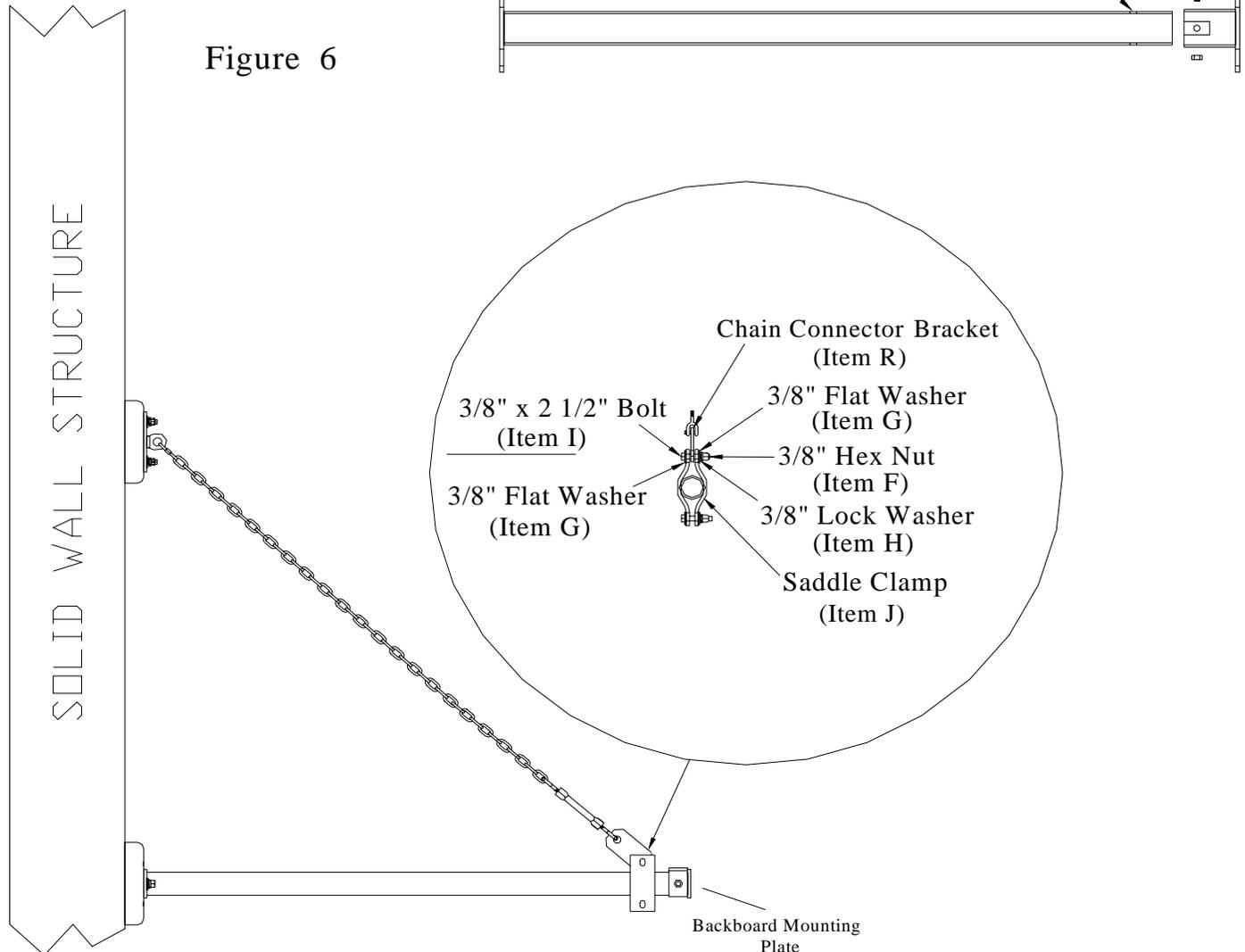
4. Attach a *chain connector* (Q) and a $3/16$ " *proof chain* (D) to each *chain eye bracket* (C). (**Figure 4**)

5. Attach *extension assemblies (A)* to the middle wall board using $3/8''$ hex nuts (F), flat washers (G), and lock washers (H) (Fig 6). You may need to support the *extension assemblies* until step # 9 is complete. Do not tighten the hex socket set screws. These will be tightened in a later step. If you desire a different extension length and/or use the **BA980 Height Adjuster** refer to the table for adjusted frame tube lengths. You will have to redrill and reattach the mount to the frame tube when you reach the appropriate length (Fig 5).

Desired Extension	Tube length with BA980 height adjuster	Tube length without BA980 height adjuster
12''	3''	7 1/2''
24''	15''	19 1/2''
36''	27''	31 1/2''
48''	39''	Stock

Figure 5

Redrill and reinstall bolt and lock nut if the tube length is altered for a shorter setback



6. Mount the 4 *saddle clamp halves* (J) to the *extensions* (A) using 3/8" *hex bolts* (I), *flat washers* (G), *lock washers* (H), and *hex nuts* (F). Attach a *chain connector bracket* (R) between each set of *saddle clamps* (**Fig 6**). Attach a *turnbuckle* to each *chain* and then attach each *turnbuckle* to each *chain connector bracket*. Using a level on the *extensions* adjust the *chains* with the *turnbuckles* (P) until the *extensions* are level. **Do not remove excess chain until the assembly is complete.**
7. Attach the lower *extension assemblies* to the lower wall board as outlined in step # 5. You may need to support these *extensions* until the backboard is attached.
8. The *extensions* should extend the same distance from the wall for wall to face of backboard positioning.

Warning!!!

Failure to have all mounting plates in the same plane will create stress on the backboard and may result in breakage of glass backboards before, during, or after

9. Mount the backboard to the structure. In most cases the 7/16" *hardware* (Items L-O) is required. Some backboards might require hardware not provided with this unit. Make sure the backboard is level.
10. When you are confident that the board is level, the proper distance from the wall, and there is no stress on the backboard due to misalignment, tighten all bolts & set screws.
11. Mount the rim and net insuring that the rim is 10' from the playing surface and level.
12. Check to insure that all bolts are tight. When all the steps are complete, remove excess chain using a bolt cutter or hacksaw.
13. Install backboard padding if applicable.
14. Do not allow play until you are confident the structure is securely mounted to the wall. The structure must be capable of supporting 1000 lbs. to be considered safe for play.

Note!!!

**WALL MOUNTED STRUCTURES SHOULD BE CHECKED
YEARLY FOR LOOSE BOLTS OR ANCHORS.**