



BISON ADJUSTABLE FOOTBALL

Customer Service
(800) 247-7668

PARTS LIST

Item	Qty	Description	Item	Qty	Description
A	1	Pole plate (4 1/2" or 5 9/16")	K	4	3/4" Lock washers
B	1	Pan cover	L	2	Anti rotation collar (4 1/2" or 5 9/16")
C	1	Ground socket top	M	2	3/8" x 2 1/2" or 3 1/2" Long Grade 8 Hex Bolt
D	1	Hole cover plate	N	2	3/8" Hex lock nut
E	1	Height adjustment nut	O	2	Socket sides
F	1	Height adjustment screw (4 1/2" or 5 9/16")	P	1	Socket bottom
G	7	1/4" x 1/2" Self tapping screws	Q	4	3/8" x 1" Hex head bolt
H	2	3/8" x 1" Roll pins	R	4	3/8" Lock washer
I	4	3/4" x 3" Fully threaded hex bolts	S	4	3/8" Hex nuts
J	8	3/4" Jam nuts	T	4	5/16" x 1" Truss head screw

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

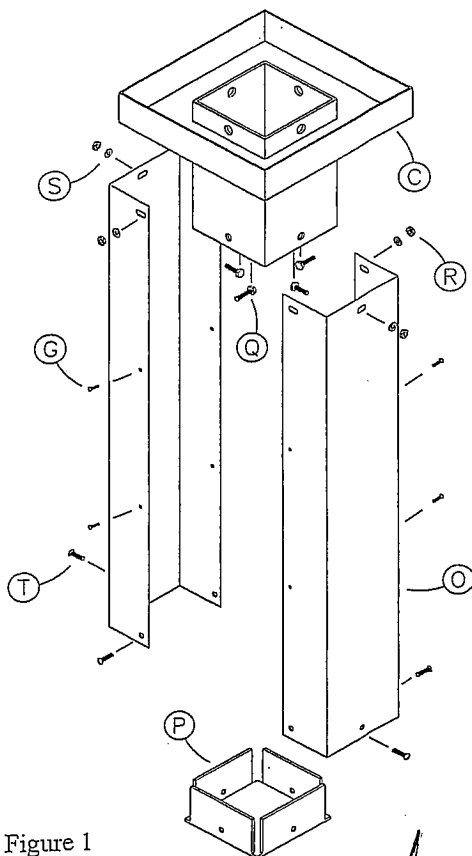


Figure 1

1. Assemble the *socket sides* (O) to the outside of the *socket top* (C) using 3/8" *bolts* (Q), *lock washers* (R) and *nuts* (S); and to the outside of the *socket bottom* (P) using 5/16" *Truss head screw* (T). (See Figure 1) The *socket sides* should overlap. (See Figure 2) Use the 1/4" *self tapping screws* (G) to connect the *socket sides*. (See Figure 1) Tape the side seams to prevent concrete from seeping into the socket. Leave the bottom edges open to allow drainage.

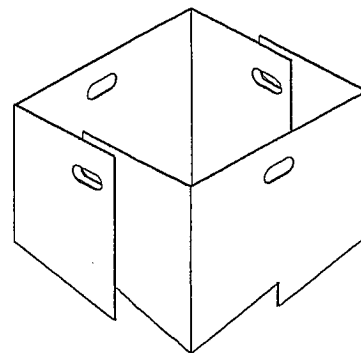


Figure 2

7. Insert the *adjustment nut* (E) into the bottom of the gooseneck pole. Using a 3/8" drill bit, drill 2 holes approximately 180° apart through the pole and about 1" into the adjustment nut. Stop drilling prior to reaching the internal threads of the nut. Drive the *roll pins* (H) through the pole and into the nut. Heavily grease all threaded areas. Screw the *adjustment screw* (F) completely into the *adjustment nut* (E). (See Figure 5)
8. Place the pole assembly into the socket. Using the 3/4" x 3" *hex bolts* (I), 3/4" *jam nuts* (J) and 3/4" *lock washer* (K) loosely secure the gooseneck pole so that it is plumb and that the front end of the pole is 5' behind the end line. Two of the 3/4" x 3" *Hex bolts* (I) must go through the holes provided in the *anti rotation collar* (L). (See Figure 3 & 4)

Caution!!!

Check the adjustment plate to be certain it is on the bottom of the socket.

9. To achieve official 10' height rotate the entire gooseneck pole counter clockwise to raise and clockwise to lower. Each 360° rotation will adjust the height by one inch. If you incorrectly installed your socket too deep, too shallow, or the field is not level you may need to shim the bottom of the socket or cut off the lower end of the pole.
10. Tightly secure the gooseneck so that it is level and that the top section is parallel with the playing surface. (See Figure 4) Using the 3/8" *grade 8 bolt* (M), and the 3/8" *hex nut* (N) loosely secure the *anti rotation collar* (L).
11. Slide the *Anti-rotation collar* (L), the *Pan cover* (B) and the *pole plate* (A) onto the gooseneck pole. (See Figure 4)
12. When you are confident that the gooseneck is positioned properly, loosen the front and rear 3/4" hex bolt (I). This will allow the holes in the anti-rotation collar to line up with the end of the hex bolts. Retighten the 3/4" hex bolt and jam nuts. Using the 3/8" *grade 8 bolts* (M), and 3/8" *hex lock nut* (N) tighten the *anti rotation collar* (L) to the gooseneck pole.
13. Proceed with the instructions provided with your goalposts to finish installation.
14. Using the 1/4" x 1/2" *self tapping screw* (G), secure the *pole plate* (A) to the *cover pan* (B) with the holes provided. If your socket is not perpendicular with the ground you may need to drill your own holes in the cover pan. Once the pole plate is fastened to the cover pan place the cover pan into the socket.
15. When you remove the gooseneck pole from the ground socket, you may want to install the *hole cover plate* (D). With the holes provided and using the 1/4" x 1/2" *self tapping screws* (G), secure the *hole cover plate* (D) to the *cover pan* (B).
16. To help keep rain from entering the socket it is advisable to seal around the pole and pan cover with silicone caulk.

Caution!!!

Use the hole cover when the Football System is not in use to help prevent accidents and injuries.

2. You will need to locate each ground socket so that it is centered on the playing field. See chart for the distance behind the field end line to locate the center of the socket for each model. Dig a 30" diameter hole that is a minimum of 53" deep at each of these locations, it is recommended to bell out the bottom of the hole to 42" in diameter to strengthen the footing, and to dig a 24" diameter gravel pit 24" deep. (See Figure 3)

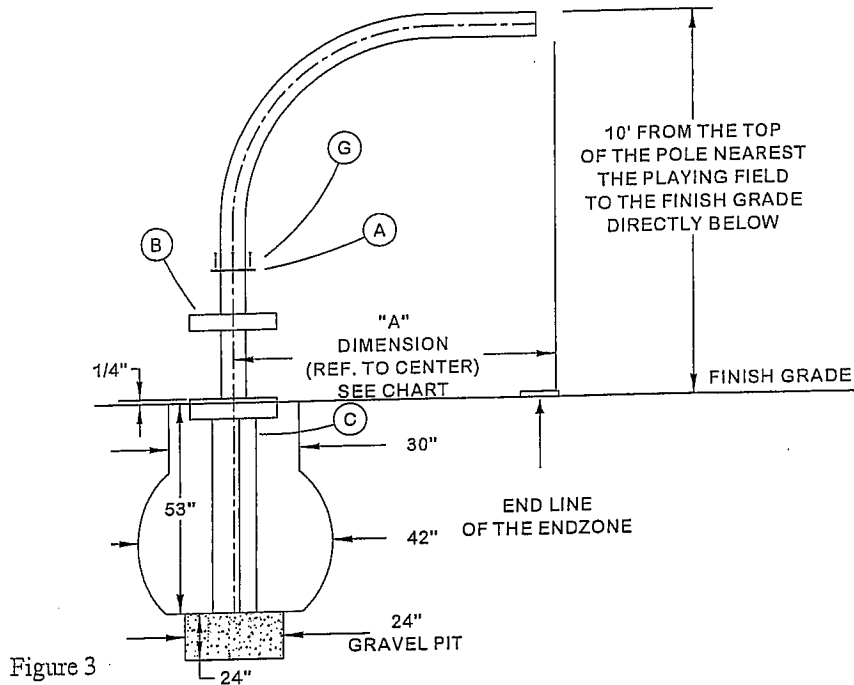


Figure 3

	FB45HS	FB45CG	FB55HS	FB55CG	FB58HS	FB58CG
DIMENSION "A"	67-1/2"	67-1/2"	76"	76"	100"	100"

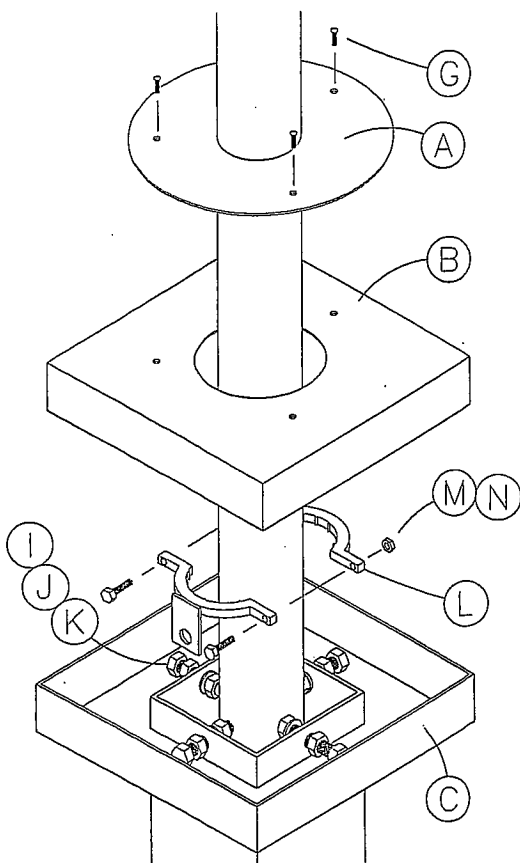


Figure 4

3. Make sure that you have a broomstick or similar pole to vibrate air pockets and settle the concrete. The 30" diameter by 53" deep hole will require approximately 8 cubic feet. of 3000 PSI concrete (24 to 26 60# bags of premix concrete). You will need to adjust the amount depending on the size of hole you prepare. Have the proper amount of concrete before you start to ensure proper strength of the footing.
4. Before mixing the concrete place the ground socket in the hole on top of the gravel pit that you prepared. This will prevent the concrete from entering the tube, and allow future water drainage. Position the socket so that it is level, plumb and square with the field. The top of the square pan should be approximately a 1/4" above the finish grade of the playing field. (See Figure 3)
5. Mix concrete according to the directions on the bag. It is advantageous to have the mixture "wet". This will increase your working time and allow batches to mix in the hole. Fill the hole around the socket with concrete making sure to vibrate the concrete to allow it to surround the socket completely.
6. Allow concrete to cure 5-7 days before continuing installation.

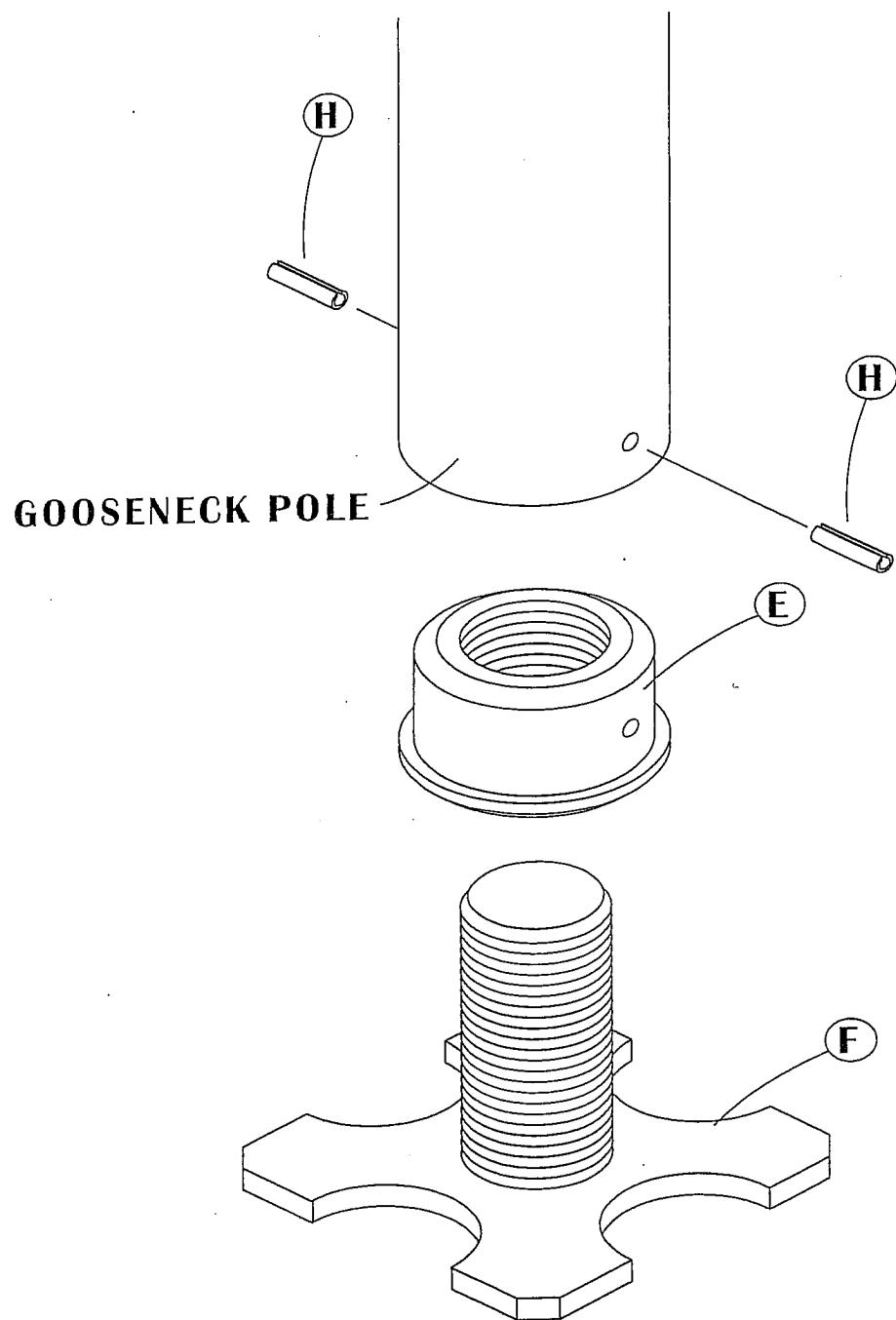


Figure 5

FB45S (FB55S) Deluxe Adjustable Height Goalpost Ground Sleeves

Sleeves shall be specifically designed to allow removable and adjustable installation of Bison gooseneck style football goalposts.

Sleeves shall consist of an 8" square steel structure with a powder coated finish, a minimum of 50" long with a formed pan, that is welded and hot dip galvanized, attached at the top of the structure to allow for bury below the playing surface.

Sleeve design shall allow for rotational goalpost crossbar height adjustment of up to 4" at installation by means of a 2 1/2" diameter threaded adjustable screw located in the bottom of the sleeve to allow exact 10' official crossbar height.

Post shall be adjusted plumb by means of four 3/4" adjusting screws. An anti-rotation device shall hold the goalpost square to the field. An aluminum finish cap shall fill the sleeve pan both when the goal is installed and when it is removed. Specify whether sleeve is used for 4 1/2" OD (FB45S) or 5 9/16" OD (FB55S) goalposts. Shipping weight shall be 120# (FB45S) and 125# (FB55S) each.