



VB24

2-3/8" Diameter Floor Socket with or without Floor Plates for Floating Wood Floors



Customer Service
(800) 247-7668

Notice:

While this product is most commonly used for volleyball systems, it can also be used for tennis, pickleball and other net games that include posts of the same size and where removable installation is desired.

PARTS LIST

Item	Qty	Description	Item	Qty	Description
A	1	VB24 Floor Socket	B	1	VB24 Cap
C		VB22-CV or VB23-CV (ordered separately)			

◆ Read all instructions before proceeding.

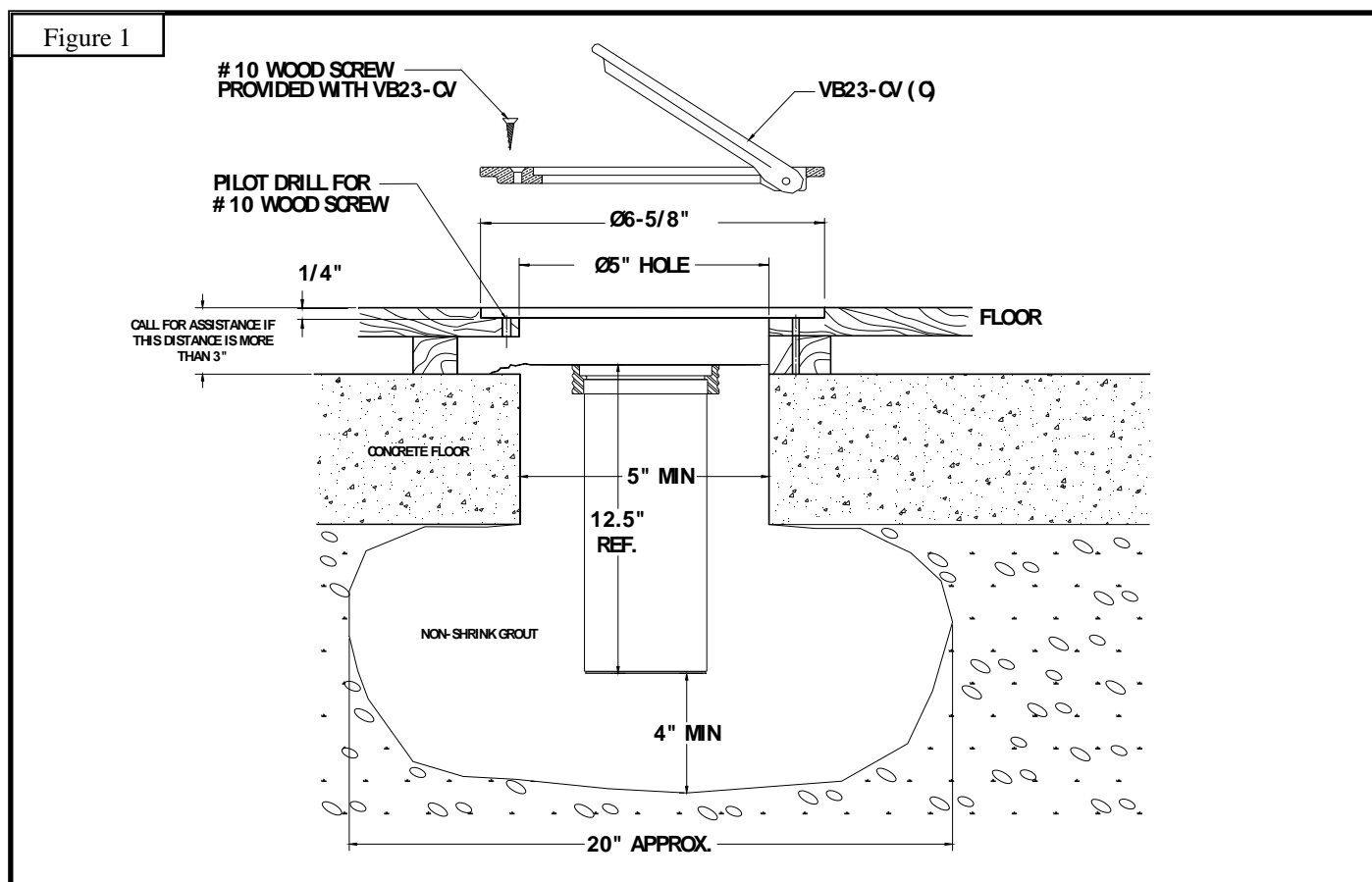
VB24 Floor Socket Installation on Typical Ground Level Floating Wood Floors with VB23-CV Brass Floor Plate

SEE FIGURE 1

CAUTION: Consult a professional installer if court is not on a floor with solid ground below the subfloor.

1. Determine the desired location for the *VB24 floor sockets (A)* (see volleyball or badminton court diagrams). Usually sockets will be installed 36' apart measured to the center of each post for volleyball and 20' apart for badminton.
2. Use the brass floor plate and a pencil to draw a circle on the floor at each location.
3. Cut a hole through the wood floor that is 1-1/2" *SMALLER* in diameter than the circle drawn in step #2 above. This hole should be approximately 5" in diameter. **CAUTION:** If you cut the hole on the large, pencil circle, it will not be possible to install the brass floor plate properly.
4. Measure the distance from the top of the floor to the concrete surface below. If the distance is greater than 3" call Bison Customer Service for guidance as you will need to make field modifications to your socket.
5. Drill or break out a 5" minimum diameter hole in the concrete either through the concrete or approximately 13" deep into the concrete if the concrete is extra deep. Use of a rotary hammer drill and a chisel or core drill is recommended. (see Figure 1)
6. If the thickness of the concrete allowed you to go through it, excavate the soil, sand, and gravel below the concrete to an approximate diameter of 20". The depth of the hole should be approximately 18" from the top surface of the wood floor.
7. Rout an accurate recess in the wood floor that allows flush and clean installation of the brass floor plate. This recess will be approximately 1/4" deep. Take caution in this step to avoid a sloppy, oversized, or over depth recess. (see Figure 1) You will need to rout relief in the wood to accommodate the hinge mechanism and the three thickened areas of the brass floor plate.

8. Install duct tape over the top of the socket to avoid grout entering the socket during installation.
9. Set the socket into the prepared hole to insure that the socket fits neatly. Rework holes if necessary.
10. Fill the hole in the concrete with premixed, non-shrink grout to within approximately 4" of the top surface of the concrete. Using a pole, vibrate the grout to insure the hole is filled.
11. Install socket into hole. You will need to work assembly into hole to allow the grout to surround the sleeve. If grout does not flow out the top of the hole in the concrete, remove assembly and add more grout.
12. Install brass floor plate to floor using wood screws. It is best to drill a pilot hole into the wood.
13. **CAUTION:** Do not allow use of sockets for 10 days as permanent structural damage to the socket installation may occur.
14. Discard VB24 Floor Socket Cap (B).

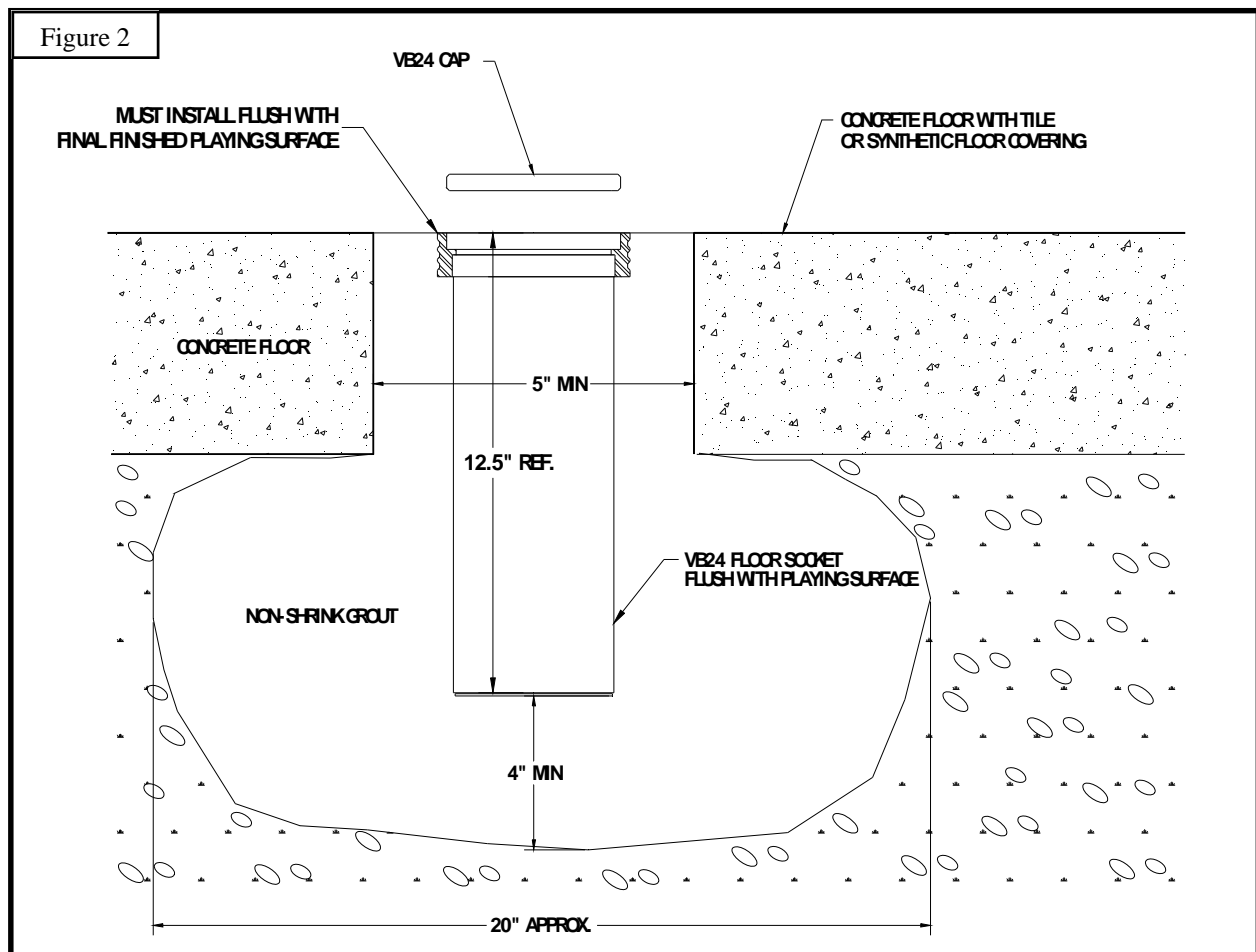


VB24 Floor Socket Installation on Synthetic Over Concrete, Tile Over Concrete, or Concrete Floor

SEE FIGURE 2

1. Determine the desired location of the floor sockets (see court diagrams). Usually sockets will be installed 36' apart measured to the center of each post for volleyball and 20' for badminton.
2. Use the top of the VB24 Socket (A) and a pencil to draw a circle on the floor at each location.
3. On **synthetic** floors use a razor blade knife to accurately cut away the synthetic flooring so that the top of the socket fits cleanly in the cutaway hole.
On **tile** floors it is easier to remove all tiles that are affected by the hole being careful not to damage tiles so they can be cut and reinstalled later.

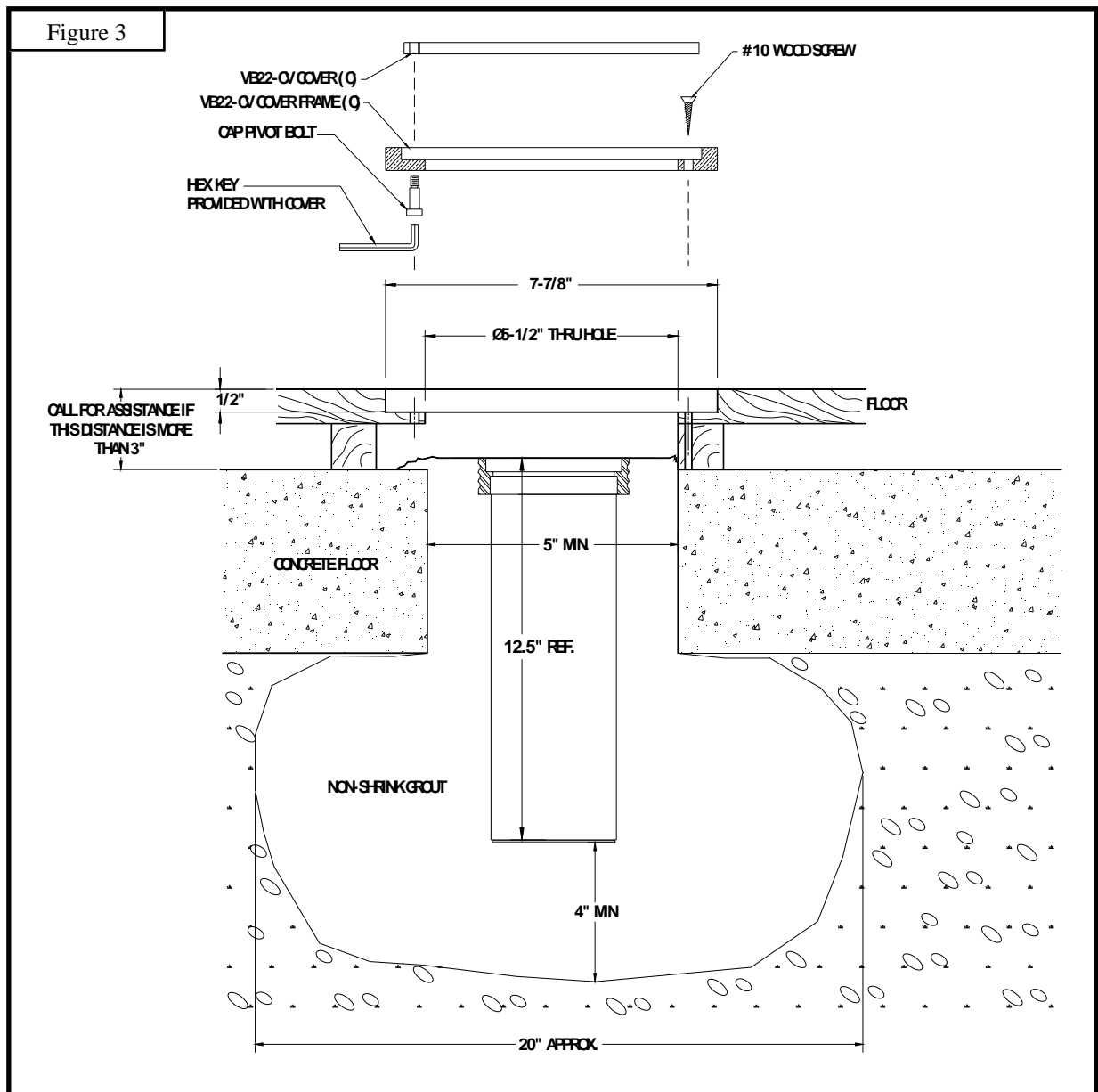
4. Drill or break out a 5" minimum diameter hole in the concrete either through the concrete or approximately 13" deep into the concrete if the concrete is extra deep. Use of a rotary hammer drill and concrete chisel or core drill is recommended.
5. If the thickness of the concrete allowed you to go through it, excavate the soil, sand, and gravel below the concrete to an approximate diameter of 20". The depth of the hole should be approximately 16" from the playing surface.
6. Chisel away additional concrete to allow for the top ring of the socket until the socket fits neatly and straight in the prepared hole and so that the top of the socket ring will install flush with the original top of the synthetic, tile or concrete floor.
7. Fill the hole in the concrete with premixed, non-shrink grout to within approximately 4" of the top surface of the concrete subfloor. Using a pole, vibrate the grout to insure the hole is filled.
8. Install the socket into the hole. You will need to work assembly into the hole to allow the grout to surround the sleeve. If grout does not flow out of the top of the hole and around the upper ring, remove assembly and add more grout. Be careful not to allow excess grout into the socket.
9. Using a level on the inside of the socket verify that the socket is perpendicular to the playing surface.
10. Remove all excess grout and clean remaining synthetic or tile floor.
11. After allowing two (2) hours for the grout to set, clean socket, and install top cap (B).
12. **CAUTION:** Do not use for 10 days as permanent structural damage to the socket installation may occur.



VB24 with VB22-CV Floor Socket Installation on Typical Ground Level Wood Floors (Disregard If Floor Sockets are Existing)

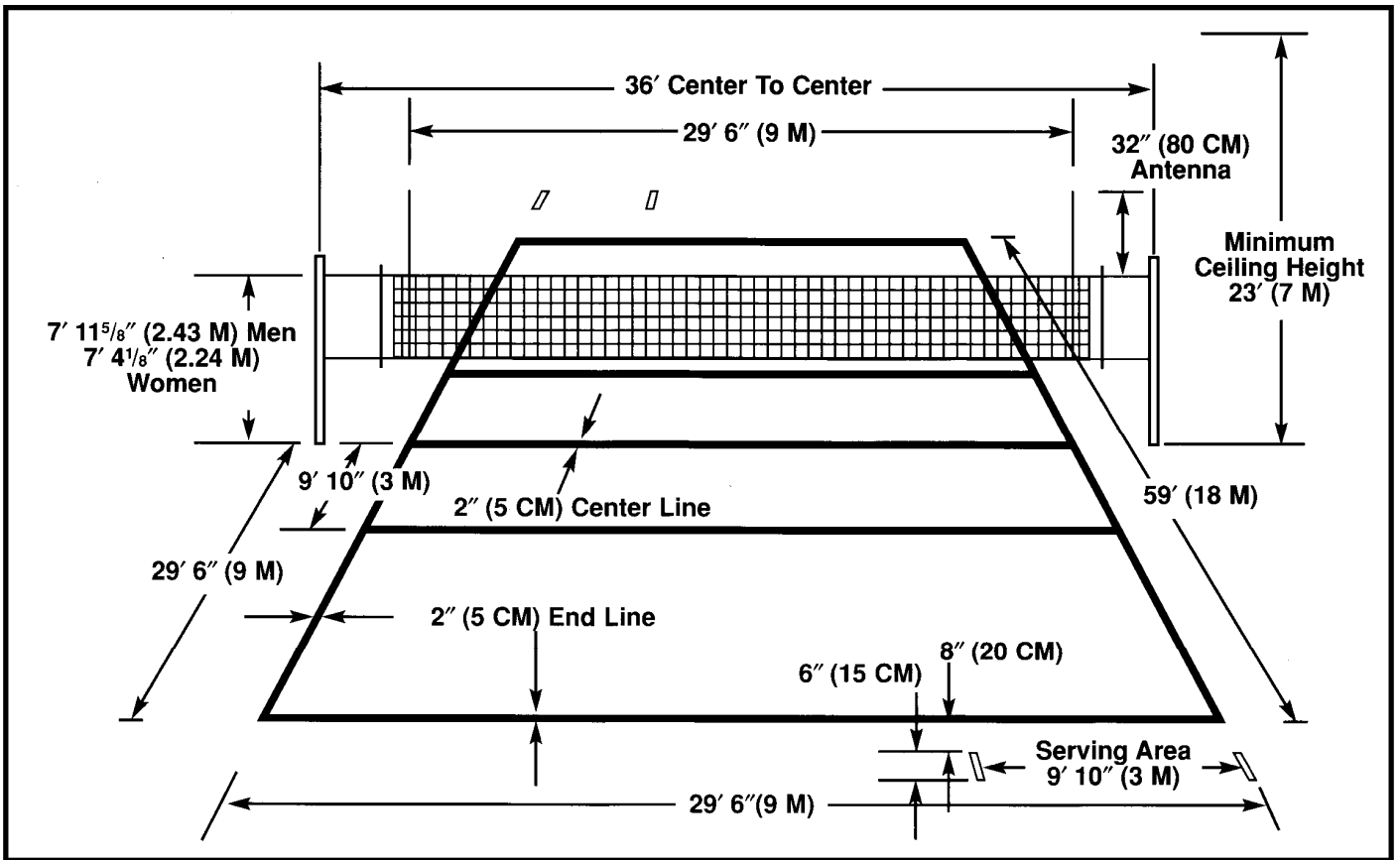
SEE FIGURE 3

1. Determine the desired location of the floor sockets (see court diagrams). Usually sockets will be installed 36' apart measured to the center of each post for volleyball and 20' for badminton.
2. Use the outside diameter of the VB22-CV (C) machined floor plate and a pencil to draw a circle on the floor at each location.
3. Cut a hole in the wood floor that is 2 1/2" **SMALLER** in diameter than the circle drawn in #2 above. This hole should be approximately 5 1/2" diameter. **CAUTION:** If you cut a hole on the large pencil circle, it will not be possible to install the floor plate properly. (see Figure 3)
4. Measure the distance from the top of the floor to the concrete surface below. If distance is greater than 3" call Bison Customer Service for guidance as you will need to make field modifications to your socket.



5. Drill or break out a 5" diameter hole in the concrete either through the concrete or approximately 13" deep into the concrete if the concrete is extra deep. Use of a rotary hammer drill and chisel or core drill is recommended.
6. If the thickness of the concrete allowed you to go through it, excavate the soil, sand, and gravel below the concrete to an approximate diameter of 20". The depth of the hole should be approximately 18" from the top surface of the wood floor. (see Figure 3)
7. Rout an accurate recess in the wood floor that allows flush and clean installation of the VB22-CV floor plate. This recess will be approximately 1/2" deep. Take caution in this step to avoid a sloppy, oversized, or over depth recess. (see Figure 3)
8. Set the socket into the prepared hole to insure that it will install perpendicular to the playing surface. Rework hole if necessary.
9. Fill the hole in the concrete with premixed, non-shrink grout to within approximately 4" of the top surface of the concrete. Using a pole, vibrate the grout to insure the hole is filled.
10. Install socket into hole. You will need to work assembly into hole to allow the grout to surround the sleeve. If grout does not flow out the top of the hole in the concrete, remove assembly and add more grout. Be careful not to allow excess grout into the socket.
11. Using a level on the inside of the socket verify that the socket is perpendicular to the playing surface.
12. Assemble the 2 piece floor plate following the instructions provided with the floor plate.
13. Attach the machined floor plate to the wood floor using the brass wood screws provided. You will need to put a cutout in the floor for the cover pivot bolt. The floor plate should be oriented so that the cap swings away from the playing court when opened to install posts. When installed, the top of the floor plate should be flush with the top of the wood floor.
14. **CAUTION:** Do not allow use of sockets for 10 days as permanent structural damage to the socket installation may occur.

Volleyball Court Diagram



Badminton Court Diagram

