

## Important Notes for Your Safety

Ensure that there is no rocking movement in the Floor Socket when equipment is tightened up under tension. If there is any movement, or any doubt concerning the stability of the Floor Socket, installation must be checked by an experienced contractor. Do not use the apparatus.

Any activity involving motion or height creates the possibility of serious injury including permanent paralysis and even death, from landing or falling on the neck, head or other parts of the body.

You assume a risk of serious injury in using gymnastic apparatus. However, this risk can be reduced by strictly following these rules at all times.

1. Use the equipment only under the supervision of a trained and qualified instructor.
2. Equipment must be used only when protected by proper matting as recommended by the International Gymnastics Federation (F.I.G.). If in doubt concerning proper matting, do not use the equipment.
3. Equipment must be used with proper spotting equipment and qualified spotters suitable to the activity or skill. Always consult an instructor.
4. Know your own limitations and the limitations of the equipment. Follow progressive learning techniques and always consult an instructor.
5. Always inspect the equipment for proper stability before each use.
6. Always inspect the equipment for loose fittings and parts. Replace any worn, defective or missing parts.
7. Always inspect the equipment for improper or unsafe installation. If in doubt, do not use the equipment.

# GYMNASTICS FLOOR SOCKETS



## Assembly Instructions

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### Sales & Service

Spieth Anderson International Inc.

Head Office	National US Sales Office
135 Forestview Rd.	4608 Fairlane Avenue
P.O. Box 40	Fort Worth, Texas
Orillia, Ontario	USA 76119
Canada L3V 6H9	
(705) 325-2274	(817) 536-3366

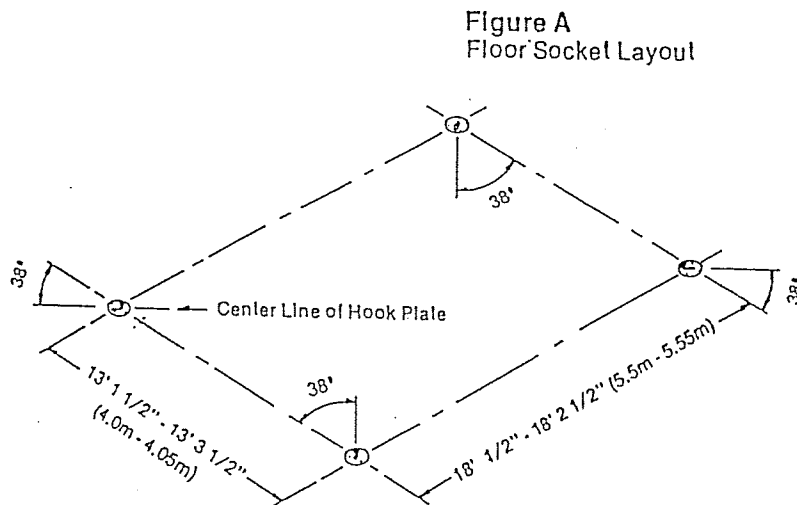
### Warning

Gymnastics Floor Sockets are subjected to great stress. While they are designed to withstand the tremendous forces of the sport, proper and safe initial installation is absolutely critical. A poorly installed Floor Socket is very dangerous, no matter how well designed it may be. No expense should be spared in ensuring your Floor Sockets are properly and safely installed. Not only are mistakes highly dangerous, they are both costly and difficult to correct.

Under no circumstances should Floor Sockets be installed by inexperienced personnel. Spieth Anderson recommends only the use of a qualified, experienced contractor. The importance of this point must not be underestimated.

No two construction sites are the same and frequently socket installation must be adapted to meet unanticipated construction circumstances. For example, poor original floor construction by current standards, substandard concrete, electrical conduits, steel reinforcing mesh, rods and air pockets. While the age of a facility often indicates potential problems, brand new facilities are just as frequently subject to difficulties.

Only an experienced contractor will know how to safely and correctly overcome these problems. These instructions are intended as a general guide for the experienced contractor.



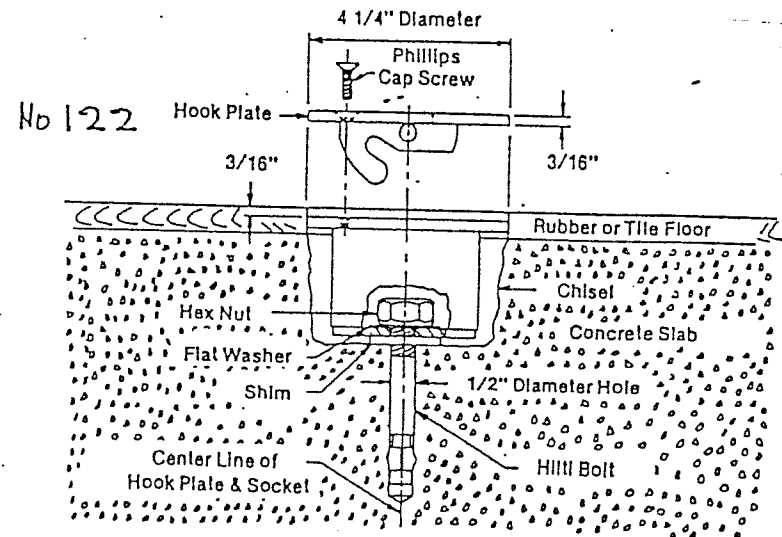
### Installation of Floor Sockets in standard Tile/Rubber Floors

You will have received four Floor Sockets complete with Top Hook Plates, four Hilti Bolts and hardware.

### Required Equipment

- 1 -  $1/4"$  Concrete Drill
- 1 -  $1/2"$  Electric Drill with  $4-1/4"$  diameter Hole Saw
- 1 - Impact Drill with  $4"$  Core Bit,  $1/2"$  Bit and Chisel
- 1 - Phillips Screwdriver
- 1 -  $3/4"$  Socket Wrench
- 1 - Hammer
- 1 - Vacuum Cleaner
- 12 - Steel Flat Washers (Shims)
- Safety Glasses and Shoes

Figure B  
Installation Tile / Rubber Floor



## Installation in Standard Tile/Rubber Floors (Figure B)

Locate the position of the Floor Sockets according to the Layout measurements shown in Figure A. Using the Phillips screwdriver, remove the Phillips Cap Screws from the Chrome Top Plates on the Sockets and remove the Plates.

Using the 1/4" Concrete Drill, drill a center hole 4-1/2" deep for each of the four (4) Floor Sockets. This will guide the centering of each socket throughout the installation.

Using the 1/2" Electric Drill with the 4-1/2" Hole Saw attached, drill through the Tile/Rubber until you hit concrete. Remove and discard Tile/Rubber. Continuously vacuum away the dust.

Using the Impact Drill fitted with the 4" Core Bit, drill to a depth of 2-1/2" from the top of the finished floor. Chisel out this concrete core and discard. Continuously vacuum away the dust.

Using the Impact Drill fitted with the 1/2" Bit, exactly in the center of the hole just completed, drill to a depth of 4-1/2". It is important that all concrete dust is continuously vacuumed with absolutely no dust remaining in either hole.

Insert the Hilti Bolt into the 1/2" diameter hole. Fit the red Socket Base over the top of the Hilti Bolt. Place the Flat Washer on the Hilti Bolt. Screw the Hex Nut on to the Hilti Bolt approximately 1/4". Hammer down the Hex Nut until it is flush with the bottom of the red Socket Base. Using the 3/4" Socket Wrench, tighten the Hex Nut securely.

Set the Top Hook Plate on the Socket. It is imperative that the Top Plate is exactly flush with the finished Floor.

If the Top Plate is too high, remove the Top Plate, Hex Nut, Flat Washer, and Socket Base and chisel out just enough concrete to bring the Top Plate flush with the finished floor.

If the Top Plate is too low, remove the Top Plate, Hex Nut, Flat Washer and Socket Base and using the Steel Washers, shim up the Base to exact height you are lower than the finished floor. If you must shim more than 1/2", the entire Socket Base must be equally shimmed with washers, not just the socket center.

Reposition all removed parts. Securely re-tighten the Hex Nut. Replace the top

Top Plate and screw into position ensuring the open sided hooks face away from the equipment being set up.

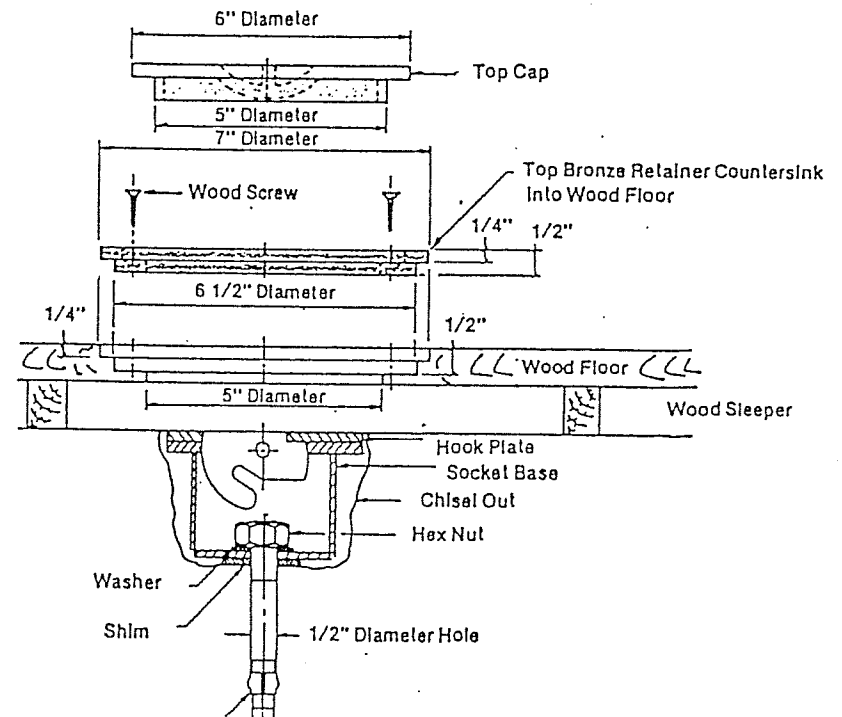
## Installation of Floor Sockets in Floating Floors

You will have received four Floor Sockets complete with Top Hook Plates, four Hilti Bolts and hardware and four (4) bronze Top Retainer Rings complete with Top Caps.

### Required Equipment

- 1 - Router complete with a Trammel Point Attachment
- 16 No. 8 Wood Screws
- 1 - Impact Drill with 4" Core Bit, 1/2" Bit and Chisel
- 1 - Phillips Screwdriver
- 1 - 3/4" Socket Wrench
- 1 - Hammer
- 1 - Vacuum Cleaner
- 12 - Steel Flat Washers (Shims)
- Safety Glasses and Shoes

Figure C  
Installation in Floating Floors



### Installation in Floating Floors (Figure C)

Locate the position of the Floor Sockets according to the layout measurements shown in Figure A. Using the Phillips screwdriver, remove the Phillips Cap Screws from the Chrome Top Hook Plates on the Sockets and remove Plates.

Before starting to router out the finished wood floor, re-check the precise thicknesses of the bronze Top Retainer Plate as this Plate must sit exactly flush with the finished floor. Router out a 7" diameter circle exactly  $\frac{1}{4}$ " deep. Now decrease diameter to 6- $\frac{1}{2}$ " and cut exactly  $\frac{1}{4}$ " deep, for a total of  $\frac{1}{2}$ " from the finished floor. Now decrease diameter to 5" and cut through the wood floor. Continuously vacuum dust through this operation. If you have now encountered wood sleepers, cut them out to concrete.

Using the Impact Drill fitted with the 4" Core Bit, drill through the concrete to a depth of 2- $\frac{1}{2}$ ". Chisel out this concrete core and discard. Continuously vacuum away the dust.

Using the Impact Drill fitted with the  $\frac{1}{2}$ " Bit, exactly in the center of the hole just completed, drill to a depth of 4- $\frac{1}{2}$ ". It is important that all concrete dust is continuously vacuumed with absolutely no dust remaining in either hole.

Insert the Hilti Bolt into the  $\frac{1}{2}$ " diameter hole. Fit the red Socket Base over the top of the Hilti Bolt. Place the Flat Washer on the Hilti Bolt. Screw the Hex Nut onto the Hilti Bolt approximately  $\frac{1}{4}$ ". Hammer down the Hex Nut until it is flush with the bottom of the red Socket Base. Using the  $\frac{3}{4}$ " Socket Wrench, tighten the Hex Nut securely.

Replace the chrome Top Hook Plate on the Socket Base, replace the Cap Screws and tighten securely. Ensure that the open sided hooks face away from the equipment being set up. It is not imperative that the Top Hook Plates be exactly flush with the concrete sub-floor. A variance of  $\frac{1}{8}$ " -  $\frac{1}{4}$ " higher or lower, is acceptable. However, if the Top Hook Plate is far too low or high, shim up or drill deeper as described in the Standard Tile/Rubber Floor assembly section of the booklet.

Insert the bronze Top Retainer Plate into the finished wood floor using No. 8 Wood Screws. Tighten securely.

### Installation of Threaded Socket into Standard Tile/Rubber Floor

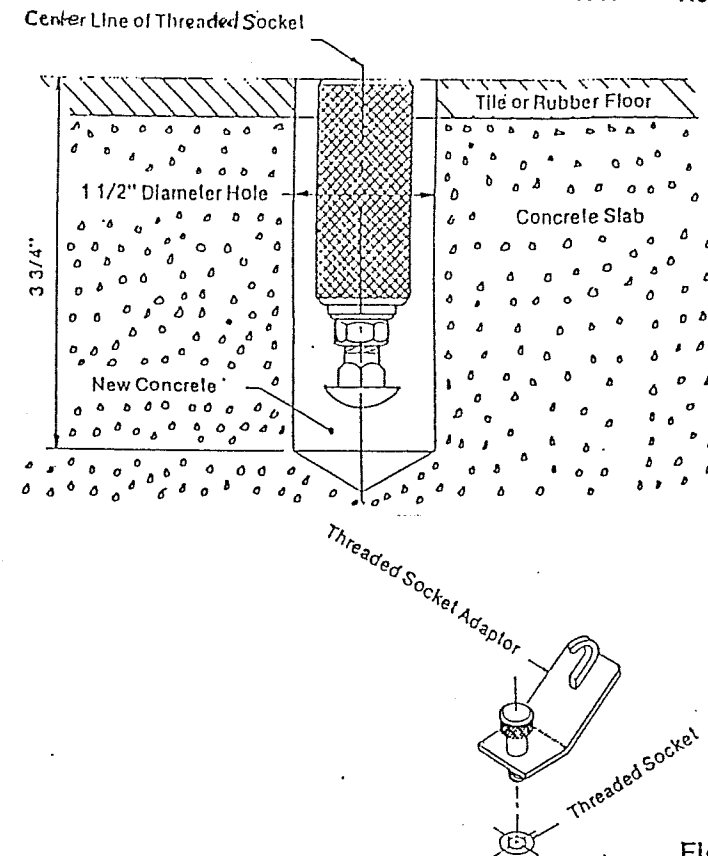
The Threaded Socket cannot be used in Floating Floors. It is intended for use only in Standard Tile/Rubber Floors. It is to be used with the Threaded Socket Adaptor.

Locate the Threaded Sockets according to the layout, measurements illustrated in Figure A. Using a 1- $\frac{1}{2}$ " Core Drill, drill to a depth of 3- $\frac{3}{4}$ ". Vacuum this hole clean.

Fill the hole  $\frac{2}{3}$  full with Por-Rok® or a quick setting cement. Push the Socket into the hole until it is flush with the finished floor. Excess concrete will be displaced. Wipe clean.

Concrete must harden for 24 hours before initial use.

**Figure D**  
**Installation of Threaded Socket into Tile/Rubber Floor No. 181**



**Figure E No 184**