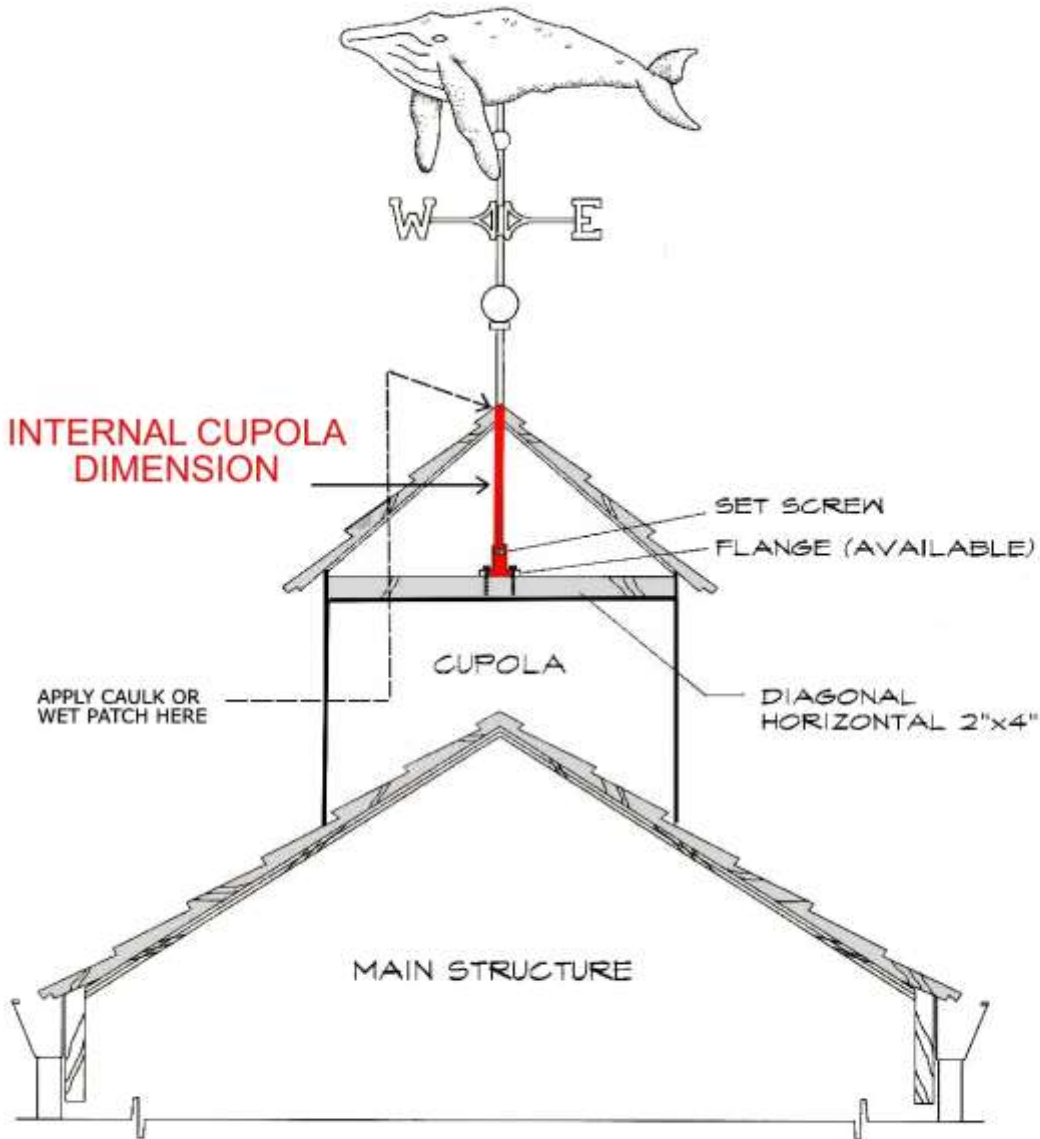


WEATHERVANE INSTALLATION ON A CUPOLA *with Cross Brace*

CUPOLA INSTALLATION DRAWING



Cross-Section view of Cupola

This is the principal mounting method for most cupola applications. Weather vanes are traditionally located at the peak of the cupola in a prominent location. Most cupolas have a cross brace as a structural support onto which the spire can be mounted using a cupola flange.

IMPORTANT: In order to send you the correct length spire (aka stainless steel rod), we need to know the internal distance from the cross brace inside the cupola to the peak of the cupola. That way we can make sure that the correct amount of spire sticks out the top of the cupola to receive the vane sculpture & its components.

Tools and supplies recommended for installing your weather vane:

- Electric drill with a 3/4" dia. long shanked drill bit (or larger to match spire diameter)
- Pilot level
- Medium sized Phillips screwdriver
- Heavy grease (use a grease that does not melt under high temps, ie: wheel bearing grease)
- Silicone Caulk (and optionally, wet patch)
- Compass

Directions for installing your weathervane:

1. Using your level, drill the appropriate sized hole through the peak of the cupola. The hole size will be determined by the largest diameter of the rod we send you for your weather vane.
2. The vertical rod drops down inside the cupola until it hits the cross brace (*fig 1*) **THIS ROD MUST BE PLUMB IN ORDER FOR THE WEATHER VANE SCULPTURE PIECE TO TURN FREELY IN THE WIND** (*fig 2*). (Note: the rod itself does not turn, only the sculpture piece).



Fig 1



Fig 2

3. The cupola flange is screwed to the top of the cross brace and receives the vertical rod. Tighten the setscrew in the cupola flange to secure the rod tightly and caulk the hole at the top of the peak of the cupola. If you'd like, you can optionally apply some wet patch too.
4. Assemble ring, globes & directionals on spire. Use compass to orient the brass directional letter N to true north (*fig 3*).



Fig 3



Fig 4

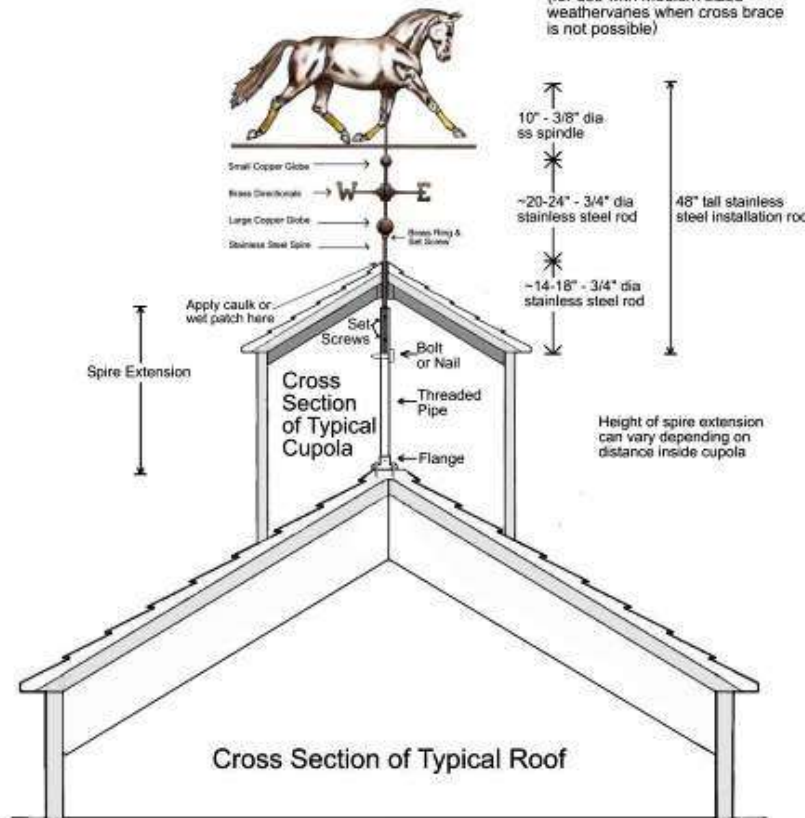
5. Coat the section of the spire that will be covered by the vane sculpture piece with grease.
6. Insert ONE steel ball into the mounting tube at the base of the weather vane ornament. Then slide the vane on top of spire. (*fig 4*). If you have a 3/8" spindle on the top 10" of your rod, check to see that the vane clears the flared section of the spire. If not, add a second ball bearing and check again. (Additional ball bearings are included as backups if you accidentally drop one while installing your weather vane.)

CUPOLA INSTALLATION - *without Cross Brace (for medium sized vanes only)*

West Coast Weather Vanes
(c) wcwv 10/04 LJ Ver 1

Cupola Installation Drawing
Showing Spire Extension & Flange

(for use with Medium sized weathervanes when cross brace is not possible)



Notes:

Stainless Steel rod should be plumb

Use silicon caulking or wet patch to seal the roof where the Stainless Steel Spire emerges

Coat the part of the Stainless Steel spire that is covered by the Weathervane with a heavy grease

A single chrome pivot ball (either 3/8" or 3/4" in diameter) is placed on top of the Stainless Steel Spire just before sliding the weathervane down on top of it. The sculpture piece will pivot on this ball. The second chrome ball is a spare in case you drop the first one.

If you live in an area that receives lightning, the weathervane should be grounded. For additional information call the Lightning Protection Institute at 800.488.6864 or 847.577.7200

This is an alternative mounting method for our medium sized vanes on cupolas where a cross brace is not possible. Based on the internal height dimension inside the cupola, we will fabricate a custom Spire Extension to be used for installing the weathervane.

IMPORTANT: In order to send you the correct length spire (*aka stainless steel rod*) and spire extension, we need to know the internal distance from the peak of the cupola to the roof below it. That way we can make sure that the correct amount of spire sticks out the top of the cupola to receive the vane sculpture & it's components.

Cupola Source:

Country Classics Cupolas

Contact: Kevin Cotter, Owner

(905) 355-3773 or (866) 665-6625

Colborne, Ontario, Canada

Website: <http://www.cupola.ca/>

[Cupola](#) offers galleries of cupolas, historic architecture, art, and picturesque landscapes. Also cupola FAQ, state capitol building histories, wordplay, and Autocad resources.

Vintage Copper

Website: www.vintagecopper.com

Additional Cupola Sources:

We have not worked directly with the cupola manufacturers listed at right, but, have talked or corresponded with them, visited their websites and like what we saw.

Volko Custom Cupolas

Website: <http://www.volko.com/cupolas.htm>

Copper Craft Cupolas

Website:

<http://www.coppercraft.com/cupolas.htm>