



Listening Tubes

installation instructions

NOTES: Please check for any damage caused by the shipping company and take appropriate steps to file a claim, if needed.

*Please call **Digsafe** and check for any underground utilities before digging anywhere.

Materials needed

Water source, cordless driver w bit to fit screws, 4' piece of rebar to stir the concrete in the post holes, Post hole shovel, 2' level, 1-2 50 lb bags of premixed concrete (not included). Concrete amounts can be easily calculated at <http://www.quikrete.com/Calculator/Main.asp>. Amount required depends on how deep you dig the holes.

- 1) Remove pieces from packaging/pallet.
- 2) Go to spot where you would like to place this instructional piece (science of sound!), and dig a hole 30"-48" deep depending on whether you need to go below the frost line.
- 3) Fill bottom 6" of hole with drainage stone.
- 4) Put post in hole, and adjust height with more or less drainage stone until it sits at a height comfortable for the age group to put their ears up to the ends of the tubes.
- 5) While you are doing the next step, use your level to make sure the post stays plumb in 2 adjacent directions.
- 6) Pour in concrete powder together with water enough to make a thick slurry, and stir up and down with the rebar to remove any air pockets, all the while checking for plumb.
- 7) Once concrete sets, backfill the rest of the hole with dirt.
- 8) Take the top piece with the lazy susan swivel on it, center it on the plate on top of the point, then from underneath, screw the 1" screws through the plate into the underside of the bottom of the tube assembly.
- 9) Wood is treated with kid-friendly preservative, but as is the case with all wood facing the elements, it needs to be cared for, so check it periodically for rough spots, splinters, etc, and sand them out, and treat it with kid-friendly wood preservative (we have it available if you can't find it) once or twice a year to keep the wood from deteriorating.

