ScopeRoller CG4 Standard Instructions

Instructions? How complicated is this? Not very, but even smart people sometimes make mistakes.

Dimensions

The caster assemblies are 0.987" +– .007" square. The Celestron CG-4 and Orion EQ-2 tripod leg interiors are 1.00" inside. The caster assemblies should slide inside with little or no effort, as long as you insert the assembly square to the end of the tripod leg. .

Installation

1. The bottom of the tripod legs has a little plastic spike, which you can see in the picture below. It is held into the tripod legs by a bolt. Unscrew the nut from the bolt, withdraw the bolt, and then remove the plastic spike.
2. Insert the Delrin leg insert into the tripod leg until the hole through the insert is lined up with the bolt hole.
3. Insert the bolt through the bolt hole.
4. Tighten the nut onto the bolt.
5. Repeat for the other two legs.

When you insert the caster assembly into the hollow tripod leg, make sure that the bottom of the caster leg assembly will be parallel to the ground—otherwise the caster assembly will be under excessive stress, and will eventually break, as well as roll and rotate very poorly. If you put a caster assembly in wrong, it will be *very* obvious. It will look like this:

Use & Warnings

Each caster has a wheel brake. Press down on one side of the brake with your foot to lock the wheel; press down on the other side to unlock it. We recommend that you use the wheel brake only where you are concerned about the mount rolling down a slope, or if there is risk that someone (children, unobservant adults) or something (large pets or livestock) may run into it. Even on slopes of as much as ten degrees, we have not had a problem with mounts moving on their own. There is also some slight risk that if you forget to unlock one caster, and push

forcefully at the top of the mount, you *might* cause the entire mount to fall over because one caster is locked. It isn't likely, but we figured that we better warn you.

These casters are intended for use on solid surfaces, such as concrete, asphalt, and hard packed earth or gravel. We do not recommend using them on sand, dirt, or uneven surfaces—although you may find that they work fine under your particular conditions. The casters are rated by the manufacturer at 110 pounds capacity each, so a mount, tripod, and optical tube assembly weighing a total of 120 pounds should not be a problem—and this much weight would be far in excess of what the mount and tripod is designed to support. The casters are not intended to support severe shocks, such as dropping the entire mount several feet onto concrete.

The casters add approximately 3" to the height of your mount. If your mount is on a slope (such as when rolling down a driveway), it is *possible* that the extra height may move the center of gravity sufficiently to increase the risk of tipping. Cow-tipping is a common rural sport, but mount-tipping is not recommended. When rolling your mount, make sure that you hold the mount securely to prevent tipping.

Construction

The casters and legs are made in the United States of America.

Comments, requests for technical assistance, and suggestions should be directed to:

Clayton E. Cramer
ScopeRoller
36 Sunburst Road
Horseshoe Bend, ID 83629
United States of America
(208) 761-5916
casters@claytoncramer.com