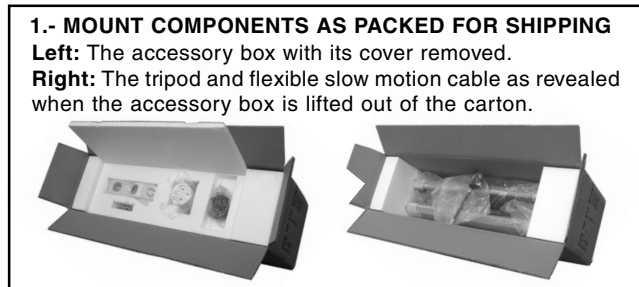


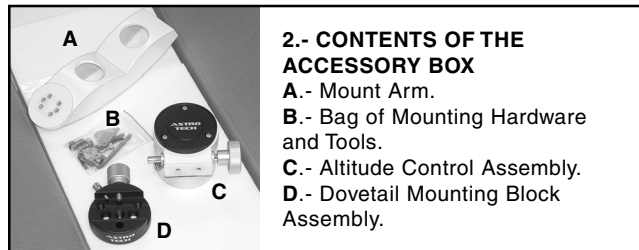
ASTRO-TECH VOYAGER

Thank you for purchasing this **Astro-Tech Voyager** altazimuth mount with dual-axis slow motion controls. You'll find that the Voyager is one of the most stable, flexible, and precise mounts available for casual backyard and grab-and-go astronomy. It also makes a very stable platform for terrestrial observing, such as birdwatching, nature studies, and scanning the scenery from the home with a view.

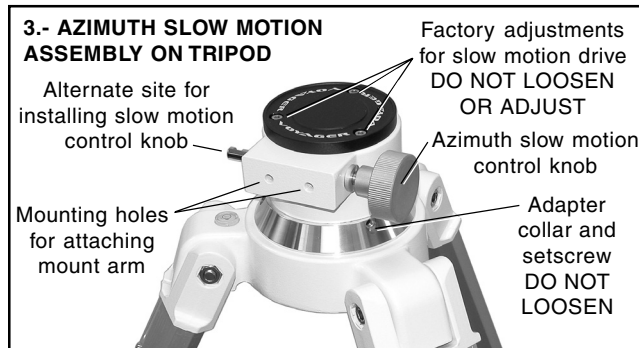
UNPACKING: Your Astro-Tech Voyager mount is shipped complete with all the hardware and tools you will need to assemble it. Illustration #1 below shows the way the Voyager components are packed within the shipping carton. There is a Styrofoam accessory box immediately under the shipping carton flaps. Lifting the accessory box out of the carton will reveal the pre-assembled tripod and azimuth slow motion control assembly in its own compartment. The slow motion control cable is packed in with the tripod assembly.



The Styrofoam accessory box contains the die-cast mount arm, the altitude control assembly, the dovetail mounting block, and the hardware/tool bag, as shown in illustration #2 below.

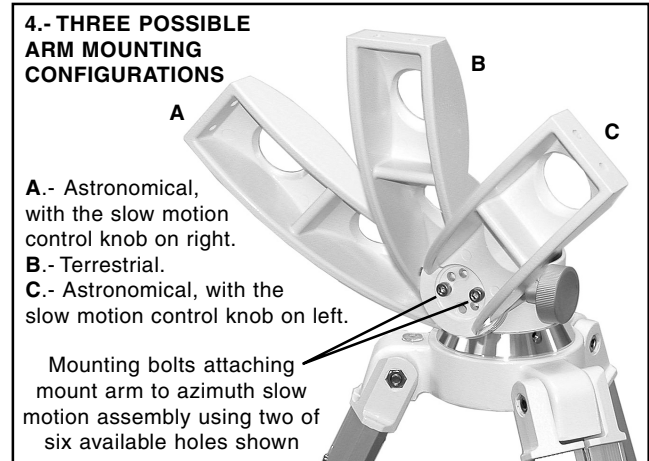


ASSEMBLING THE ARM TO THE TRIPOD: Lift the tripod out of the carton and set it up by pulling outward on the legs. The azimuth slow motion control assembly is already attached to the tripod, as shown in illustration #3 below. There are two holes for mounting the arm to the slow motion control as shown.



Bolt the mount arm to the holes in the azimuth slow motion control assembly using two of the four smaller 4mm hex head bolts supplied in the accessory bag. The arm can be mounted in any of three orientations, as can

be seen in illustration #4 below.

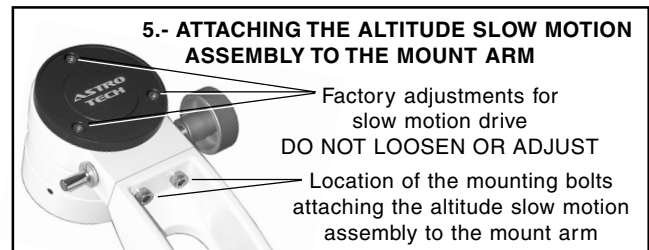


Orientation A is primarily for astronomical observing with the azimuth slow motion control knob positioned on the right side of the mount. You can either move the slow motion control knob from the position shown here to the alternate site for installing the knob shown in illustration #3, or you can attach the flexible slow motion cable at the alternate site. When attaching the flexible cable, be sure that the lock knob on the cable fully engages the flat spot on the slow motion control shaft to keep the cable from slipping on the shaft.

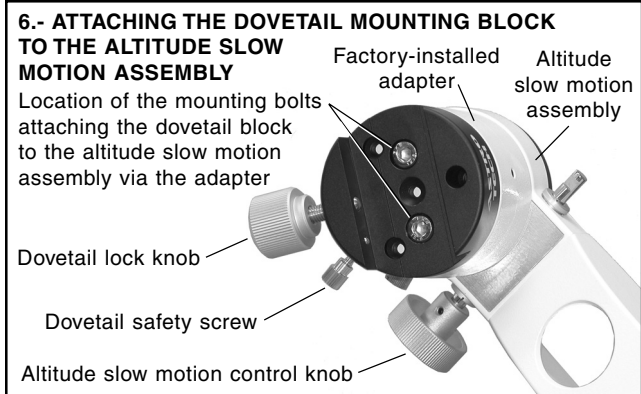
Orientation B is primarily for terrestrial observing.

Orientation C is primarily for astronomical observing with the azimuth slow motion control knob positioned on the left side of the mount. You can leave the slow motion control knob positioned as shown. Alternatively, you can remove it and replace it with the flexible slow motion cable if you are using a relatively long focal length refractor and might find the cable's extra length more convenient.

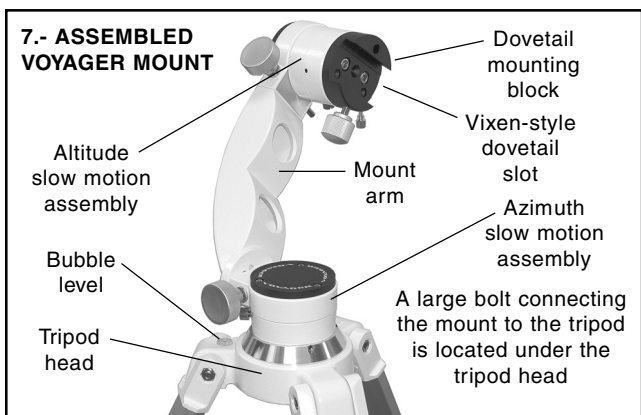
ASSEMBLING THE ALTITUDE SLOW MOTION ASSEMBLY TO THE ARM: Once you've installed the mount arm in the desired orientation, bolt the altitude slow motion control assembly to the top of the arm. Use the second pair of 4mm hex head bolts supplied in the accessory bag. The bolts fit through the underside of the top of the mount arm casting and into the two holes in the slow motion assembly as shown in illustration #5 below.



ASSEMBLING THE DOVETAIL MOUNTING BLOCK TO THE ALTITUDE SLOW MOTION: Bolt the dovetail mounting block to the altitude slow motion assembly using the two large 6mm hex head bolts remaining in the accessory bag. The bolts fit through the dovetail block into two of the holes in the circular adapter that has been factory-installed on the altitude slow motion assembly. See illustration #6 at the top of the next page. There are four holes in the adapter. The dovetail block can only be bolted into the narrower-spaced pair of holes.



That's it. Your Astro-Tech Voyager is ready to use. It should look like the mount in illustration #7 below.



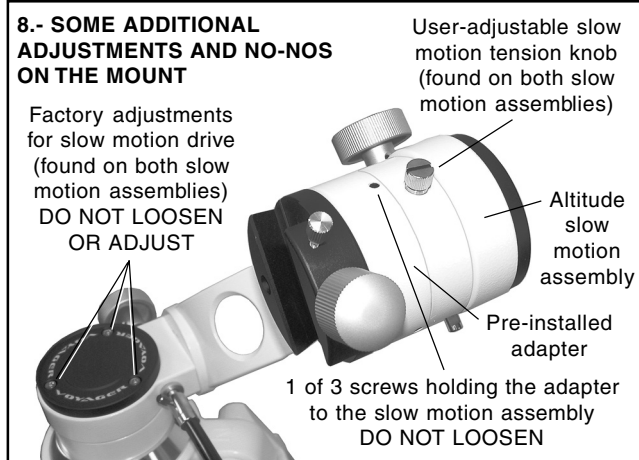
SOME ADDITIONAL POINTS ABOUT YOUR VOYAGER MOUNT: In illustration #8, at the top of the next column, are some additional items not mentioned previously. There are three recessed slow motion drive adjustments on both the altitude and azimuth slow motion assemblies. These are factory slow motion adjustments only. Attempting to remove, loosen, tighten, or otherwise adjust them in the field will result in 1.- probably losing the motion in your slow motion controls, and 2.- definitely voiding your one-year warranty.

Three recessed set screws hold the factory-installed dovetail mounting block adapter (shown in illustrations #6 and #8) onto the altitude slow motion assembly. Do not loosen or remove these setscrews, as the dovetail block and your telescope could fall off the mount if you do. One of the screws is shown in illustration #8. The others are on the opposite side of the adapter.

There are large user-adjustable tension knobs on both slow motion assemblies. With a very heavy scope, you can tighten or loosen these knobs as needed (using the triangular key tool supplied with the mount) to adjust the built-in clutches so they hold your scope firmly at any desired angle when unattended.

The Voyager's dovetail mounting block has an industry standard Vixen-style dovetail slot, lock knob, and safety screw. It will accept any Vixen-style mounting shoe or dovetail bar, such as those found on Astro-Tech scopes, among many others.

Voyager has a 20 pound maximum payload capacity. However, a very heavy scope, combined with a poorly



adjusted clutch, may allow your scope to tilt suddenly when your back is turned, causing possible damage to your scope and/or mount. A little care and common sense is recommended when using Voyager.

In illustration #3 on the first page, three recessed setscrews are shown in the chrome adapter collar visible between the azimuth slow motion assembly and the tripod. These setscrews hold the slow motion assembly firmly in the adapter. They will probably never need adjustment. However, if the mount starts to loosen on the tripod with extended use, tighten the large bolt underneath the tripod head that holds the mount to the tripod and tighten these setscrews to restore a firm connection.

When assembling the mount initially, paint in the various bolt holes may require a little extra force to overcome when first bolting the parts together. After using the mount a time or two, that paint will become compressed and the mount connection points may loosen up slightly. Simply tighten all bolts again and the mount should stay solid from that point on.

The tripod is used with different mounts. There is an "N" for "north" cast into the top of the tripod for when the tripod is used with an equatorial mount. This can be ignored when using the altazimuth Voyager.

Knobs on the insides of the tripod legs allow you to adjust the height of the tripod. Hand-tighten the knobs only. Do not overtighten.

With a little care, your Astro-Tech Voyager should give you many years of observing enjoyment. *Clear skies!*

SOME VOYAGER ACCESSORIES WORTH CONSIDERING: Two optional Voyager accessories are available. One is a rugged aluminum extension tube with 0.45" thick walls that threads between the Voyager tripod and altazimuth slow motion control assembly. The extension adds 8" to the height of the Voyager to permit more comfortable viewing with long focal ratio refractors, as well as providing more observing comfort for tall observers using short focal ratio refractors and catadioptric scopes.

The second optional accessory is a handy black-finished machined aluminum tray that holds up to five 1.25" eyepieces and three 2" eyepieces conveniently located just a few inches away from the mount's azimuth control knob so they are always close at hand. The tray bolts between the Voyager's azimuth slow motion control/tripod assembly and the mount arm.