

Assembly Guide : 50mm Refractor Telescope

INTRODUCTION

Congratulations! You have bought a wonderful telescope. This is a precision optical instrument, and you have many wonderful evenings of observing the night sky ahead of you. This on-line guide is to help you assemble your telescope properly.

We know that many people are visually oriented and that pictures of the assembly process would be helpful. Since your telescope assembly guide and instruction manual does not have a lot of pictures, we have put together this online guide to help you assemble your telescope for your first night of observing.

Once your telescope is assembled and ready to go, the rest is up to you. Learning astronomy is all the fun anyhow! So let's get started . . .

ASSEMBLING THE TELESCOPE

Step 1 Remove the tripod from the box, and extend the legs as shown in Figure 1 below.



Figure 1 – Extending the tripod legs.



Step 2 Be sure to secure the tripod by pressing down on the center bracket until it locks in place as shown in Figure 2 below.

Figure 2 – Locking the tripod in place.

Step 3 Remove the tube securing screw from the main telescope tube as shown in Figure 3.



Figure 3 – Removing the telescope tube securing screw.



Step 4 Notice that the tripod mount head is angled. As shown in Figure 4 below, the “big” end of the telescope goes on the left, and the “little end” (the side you look through), goes on the right. (see also, Figure 5)

Figure 4 The telescope mount.

Step 5 Attach the main telescope tube to the mount as shown below.



Figure 5 – Attaching the main telescope tube to the tripod.



Figure 6 – Tightening the securing screw and nut.

Step 6 Tighten the securing screw with the nut, make sure that it is good and tight, but not too tight. You will need to loosen the screw in order to adjust the telescope up and down.

Step 7 Remove the finder scope nuts from the main tube.



Figure 7 – Removing the finder scope nuts.



Step 8

Attach the finder scope – the skinny side goes toward the back of the telescope! You can adjust the finder scope by using the adjustment screws on the finder scope bracket to align the scope. Do this after you are completely finished assembling the telescope.

Figure 8 — Attaching the finder scope.

Step 9 Insert the angle prism as shown below. Tighten it in place using the small set screw on the side of the main focusing tube.



Figure 9 – Inserting the angle prism.



Step 10 Now you can insert an eyepiece right into the angle prism, and hold it in place with the set screw. To switch eyepieces, just loosen the set screw and switch to the other eyepiece.

Figure 10 – Inserting the eyepiece.

Step 11 Smile! You did it. Now go enjoy your telescope. You probably will want to align the sighting scope during the day-time because it is easier. You should do this outside and point the telescope at something at least 50 yards away.



Figure 11 — Ready to observe.

Thanks again for your business. We hope you enjoy your new telescope!

This online guide, all of the text, and every individual photograph depicted herein are copyright 2003-2014 by The Green Group LLC. Permission to download the text and/or photographs depicted herein is granted solely for the purpose of assisting the assembly of a telescope purchased from The Green Group or its affiliated companies. Any other use is strictly forbidden. Purchasers of telescopes from The Green Group are further permitted to make one printed copy of these instructions for the purpose of assisting in the assembly of telescopes purchased from The Green Group. No permission is granted to reproduce, transmit, or publish the URL to this page, nor is permission granted to reproduce, transmit or publish a hyperlink to this page. Willful violation of copyright protection is a crime, and infringement enforcement action will be rigorously pursued. The Green Group will pay a cash reward to natural persons who assist in the identification of anyone engaged in an unauthorized use of this material.
