

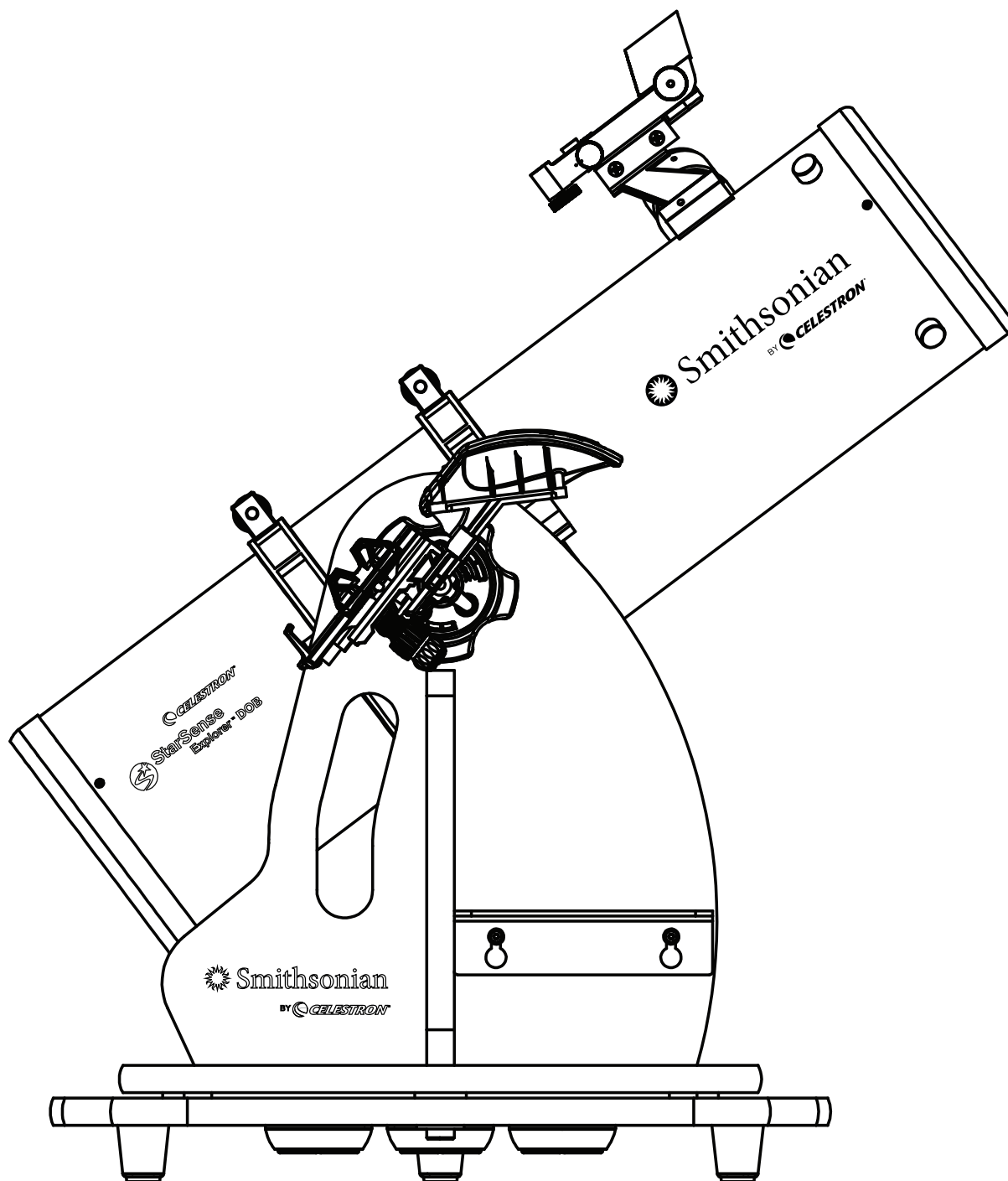


BY  **CELESTRON**

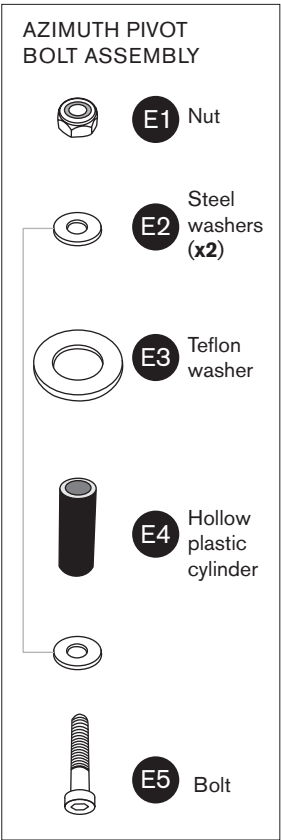
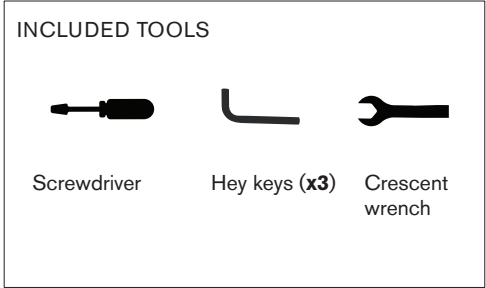
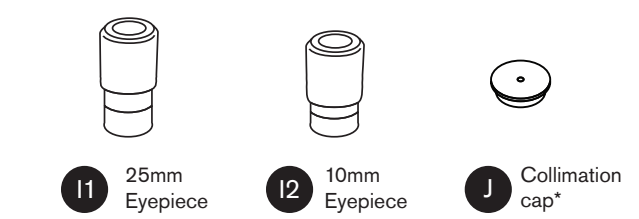
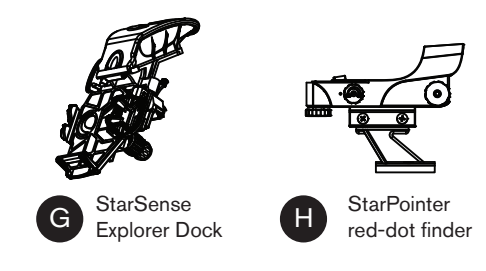
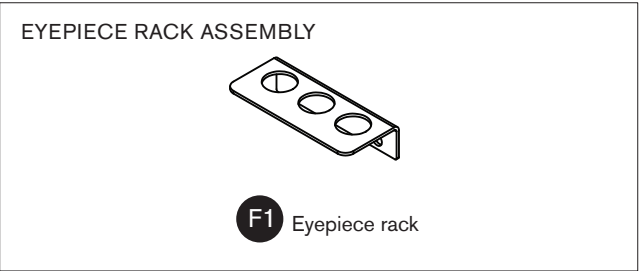
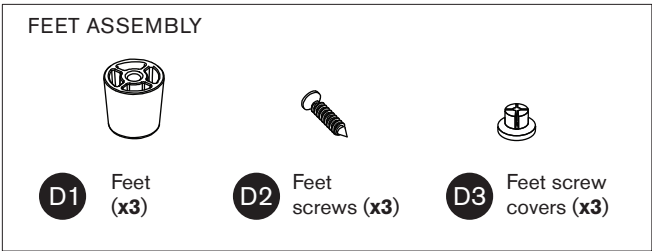
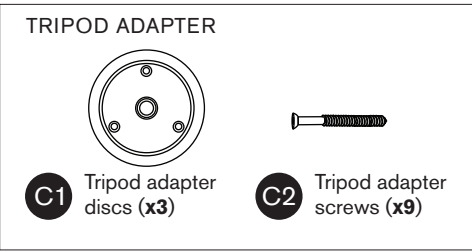
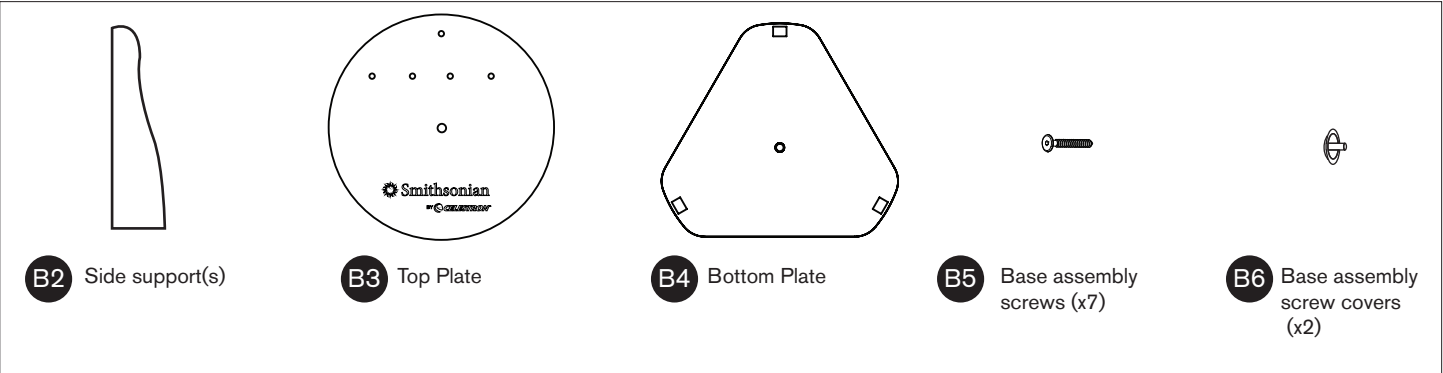
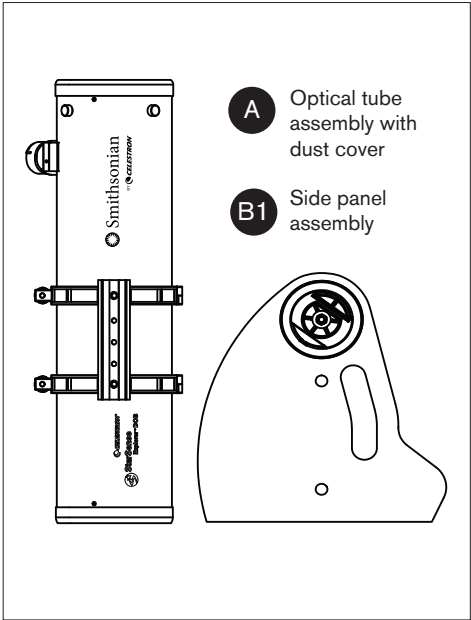
StarSense Explorer 130 Tabletop Dobsonian

QUICK SETUP GUIDE

#22212

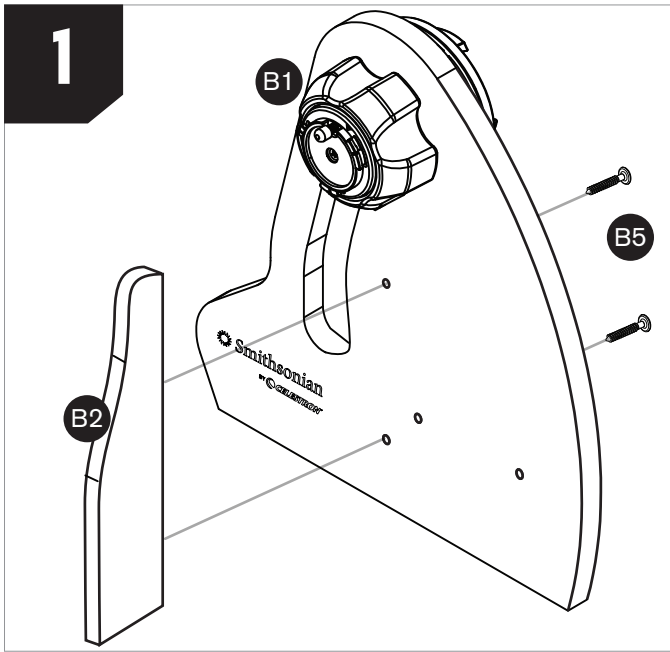


What's in the Box

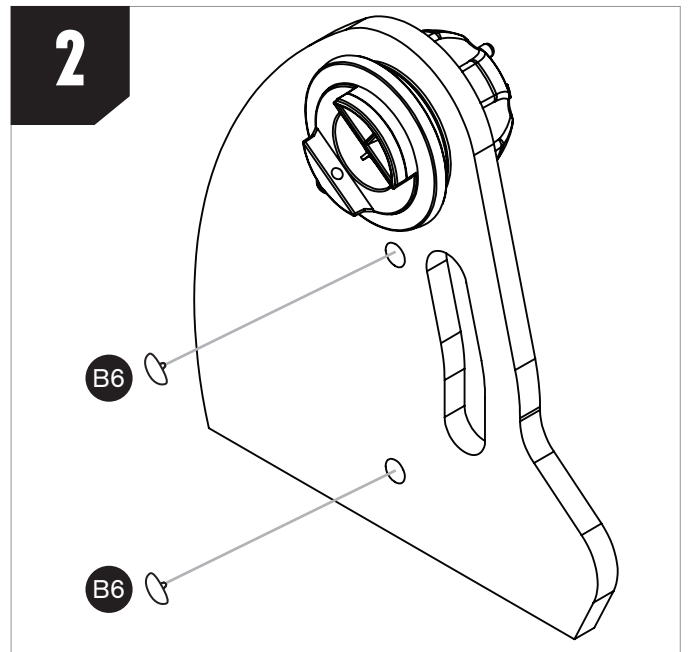


*For collimating your telescope's optics, refer to the full instruction manual at celestron.com.

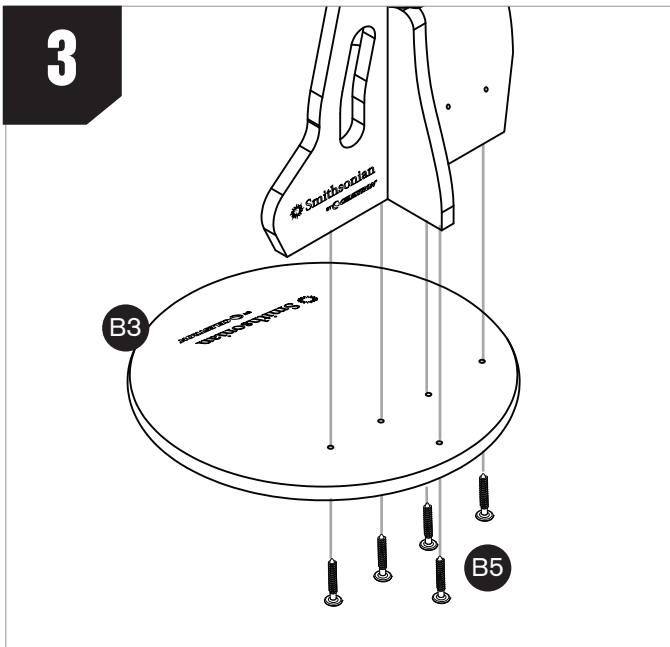
Assembly



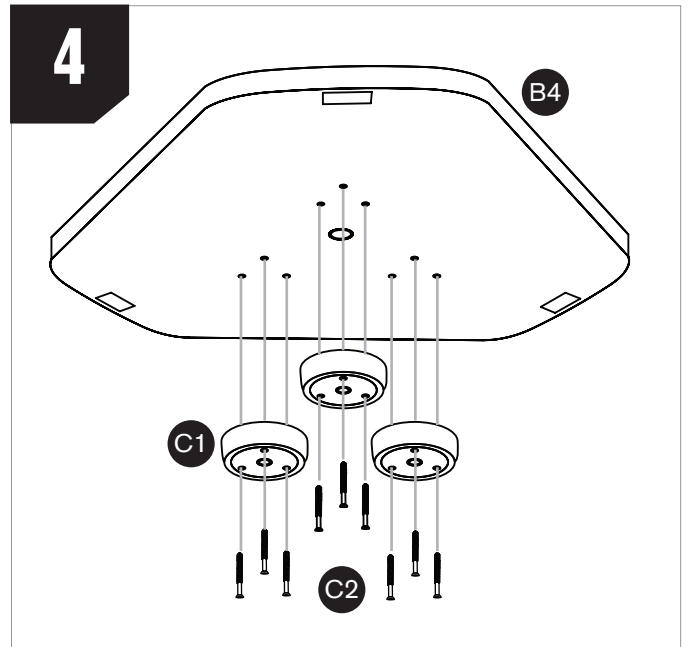
1. Connect the side support (B2) to the side panel (B1) with the base assembly screws (B5). The supports go on the on the same side of the panels as the Smithsonian by Celestron logo.



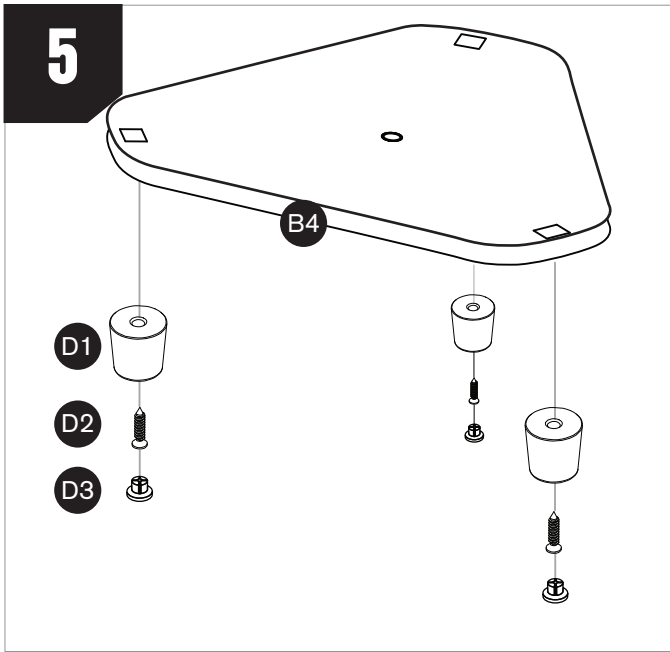
2. If desired, you can install the cosmetic screw covers (B6) on the screws installed in Step 1. Press the covers firmly onto the screw heads. There will be 2 screw covers to install.



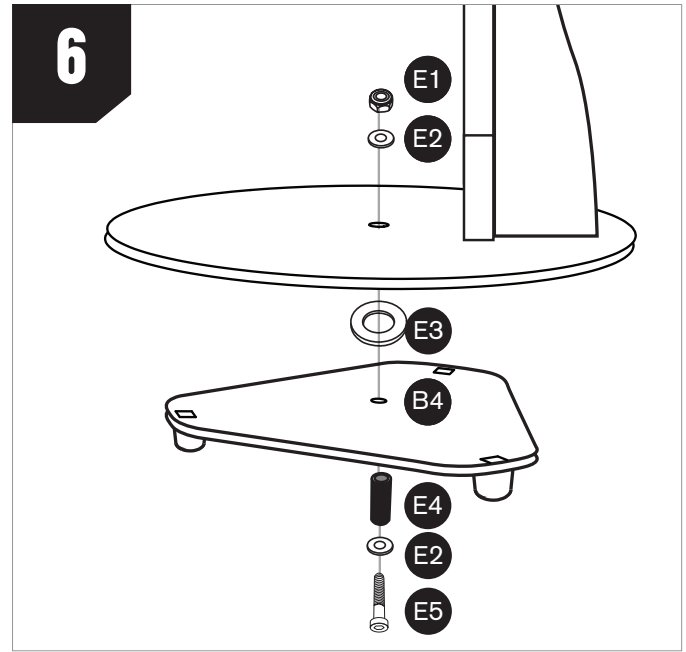
3. Connect the assembly to the top plate (B3) using the base assembly screws (B5). Orient the top plate so the side with the logo faces upward. There will be 5 screws to install.



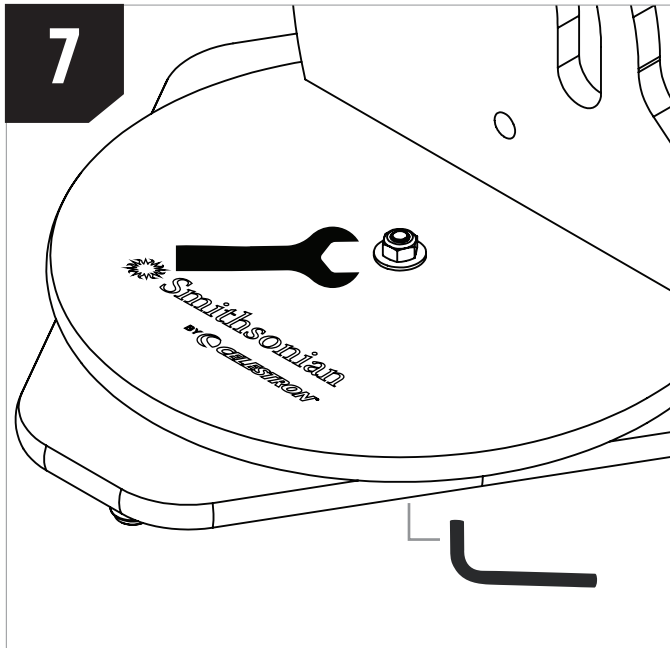
4. Attach the 3 tripod adapter discs (C1) to the bottom plate (B4) using the tripod adapter screws (C2). Thread the screws firmly into the predrilled pilot holes but do not overtighten or you may strip the wood.



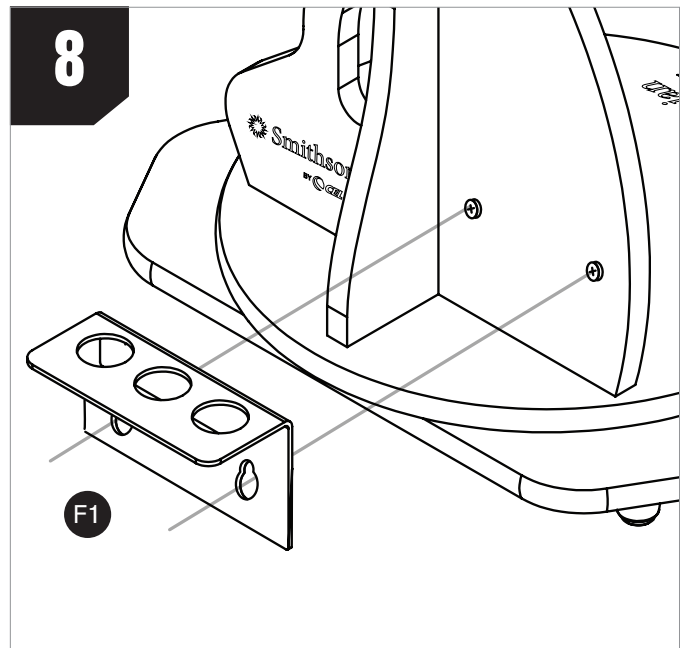
5. Attach the 3 feet (**D1**) to the bottom plate (**B4**) using the feet screws (**D2**). Thread the screws firmly into the predrilled pilot holes. Once installed, press the feet screw covers (**D3**) onto the ends of the feet.



6. Connect the assembly to the bottom plate (**B4**). Place one of the steel washers (**E2**) and the plastic cylinder (**E4**) onto the bolt (**E5**). Then, insert the bolt through the central hole in the bottom plate. Next, place the Teflon washer (**E3**) over the plastic cylinder (**E4**) now protruding from the bottom plate. Take the assembled base and lower it onto the bottom plate so that the plastic cylinder goes through the central hole in the top plate. Now, place the remaining steel washer (**E2**) on the end of the bolt protruding from the top plate. Thread the nut (**E1**) onto the bolt. Go to Step 7 for instructions to tighten the bolt.

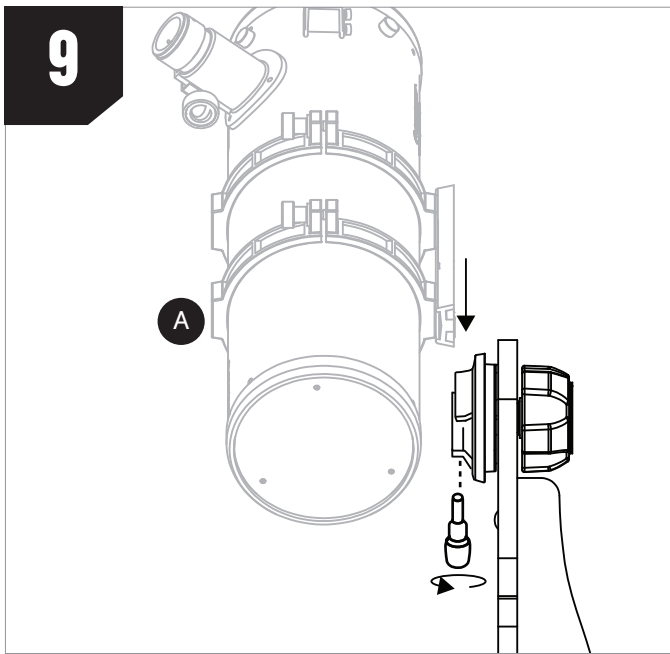


7. Use the crescent wrench and large hex key to tighten the nut onto the bolt. Hold the head of the bolt stationary with the hex key while using the crescent wrench to tighten the nut. **DO NOT OVERTIGHTEN THE NUT!** With some force, you should still be able to move the steel washer underneath the nut with your fingers. If the washer cannot be moved with your fingers, slightly loosen the nut.

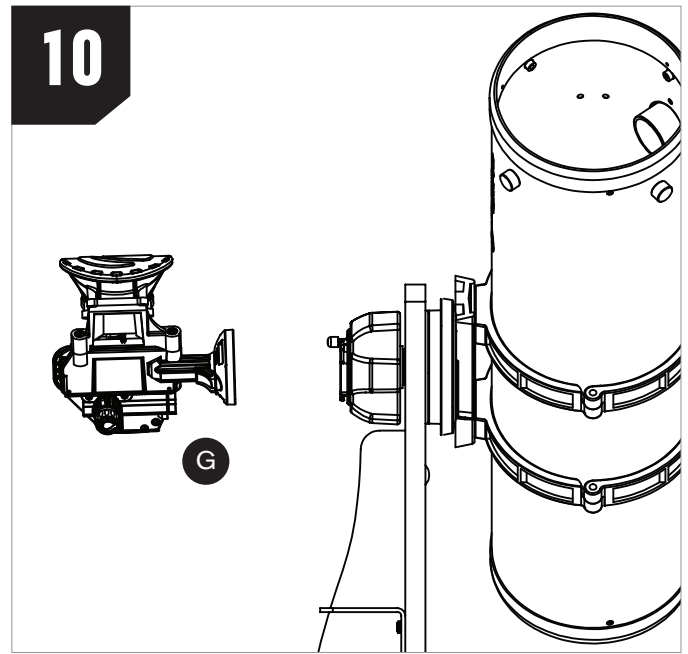


8. Install the eyepiece rack (**F1**) by placing the keyholes in the rack over the mounting screws pre-installed in the side panel, then push the rack downwards.

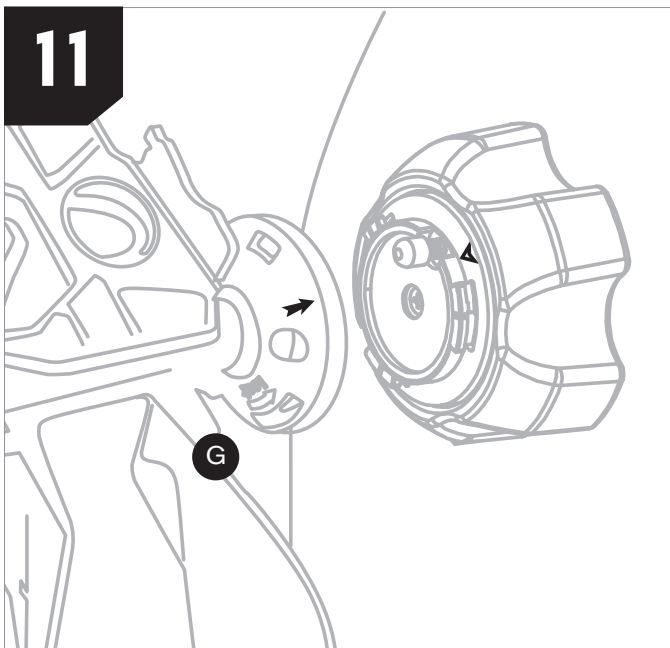
NOTE: If you want to remove the rack for storage or transport, simply pull it upward.



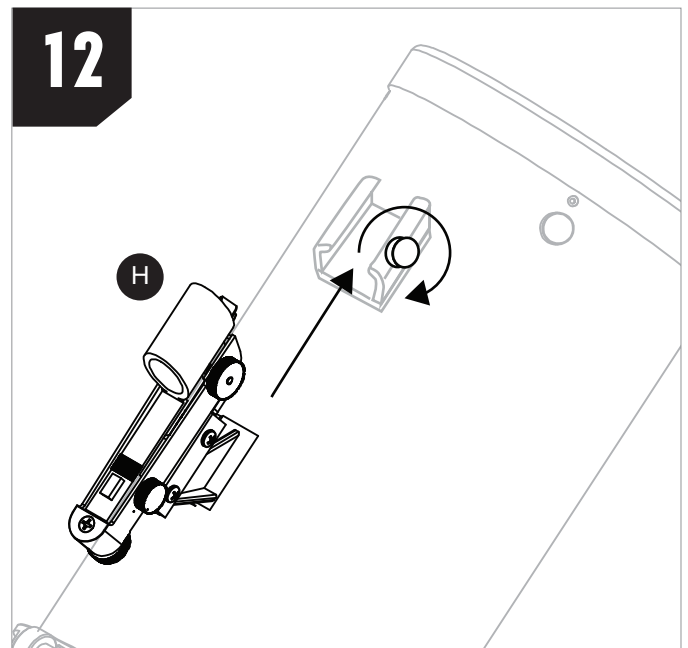
- 9.** Loosen the knob on the dovetail holder on the side panel. Then, insert the dovetail connected to the optical tube with the tube rings, and retighten the knob until the dovetail is secure in the holder.



- 10.** Install the StarSense dock (**G**). Insert the bayonet mount on the side of the dock into the port on the side panel of the base.



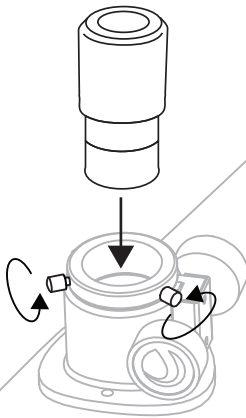
- 11.** Line up the arrow on the dock with the alignment mark on the base and press inward while turning the dock counterclockwise until the orange release button snaps into place in the hole on the dock. To remove the dock, press the orange release button and turn the dock clockwise until the bayonet mount releases.



- 12.** Install the StarPointer red dot finderscope (**H**) onto the optical tube assembly. First, loosen the thumbscrew on the finderscope holder. Insert the base of the StarPointer into the holder and tighten the thumbscrew.

13

I1

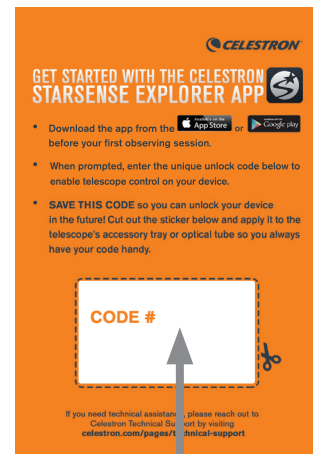


- 13.** Loosen the thumbscrews on the end of the focuser, remove the focuser's cover cap, and insert the 25mm eyepiece. Retighten the thumbscrews on the focuser to secure the eyepiece in place.

Downloading and Activating the App

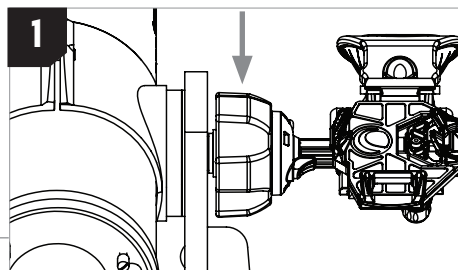
Before you take your telescope outside, download the StarSense Explorer app to your mobile device. Search for "Celestron StarSense Explorer" in the Apple App Store or Google Play. The app is large, so we recommend downloading it while connected to Wi-Fi.

Once you have downloaded the app, locate the orange postcard in your telescope box. Launch the app. When prompted, enter the activation code on the postcard to activate the app. Your code will unlock up to 5 devices.

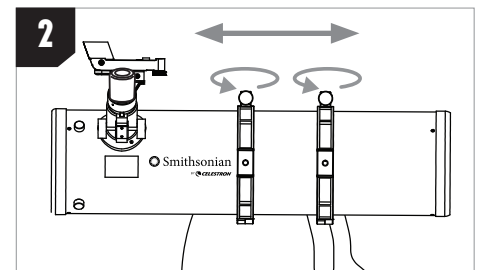


Balancing the Telescope

For best altitude (up-and-down) motions, the telescope optical tube should be roughly balanced on the base.



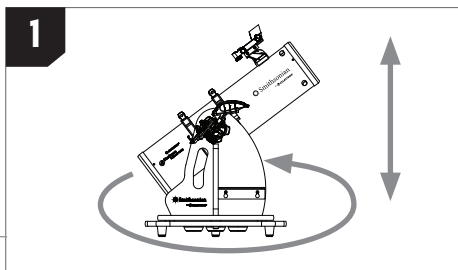
- 1.** To check balance, loosen the altitude tensing knob so the altitude axis moves freely. Note if the telescope wants to tilt forward (front-heavy) or back (back-heavy).



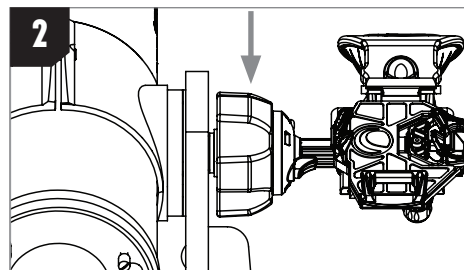
- 2.** Loosen the tube ring knobs and slide the telescope forward or back in the rings/clamp so it is balanced. Retighten the knob(s) when done.

Moving the Telescope

The StarSense Explorer Tabletop Dobsonian telescope moves freely in altitude (up-and-down) and azimuth (left-to-right).

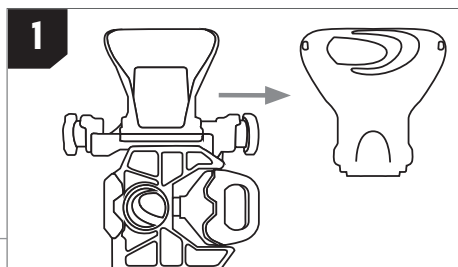


1. Simply move the tube by pushing it in the desired direction.

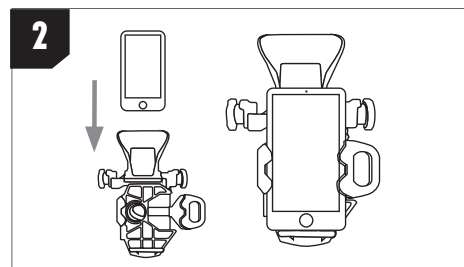


2. If the altitude motion moves too freely, or the telescope moves up or down with no force being applied, tighten the altitude tensioning knob. Conversely, if it takes much force to move the telescope upwards or downwards, loosen the knob.

Attaching the Smartphone



1. Remove the large cap covering the mirror on the front of the StarSense dock.



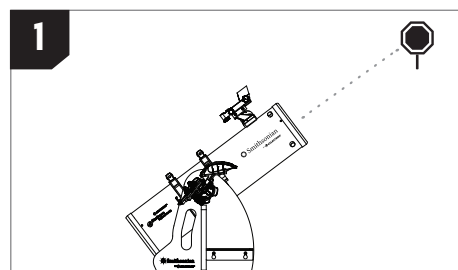
2. Pull open the spring-loaded slider on the top of the phone dock and set the phone into the holder so it is flush with the bottom lip of the phone holder. Slowly release the slider to secure the phone in place.

Aligning the StarPointer

The StarPointer red dot finderscope is one of the most important parts of your telescope. Although the StarSense Explorer app will locate and center objects for you, having the StarPointer properly aligned will help you align the app to the telescope. The first time you assemble your telescope, you need to align the finder to the telescope's main optics. It's best to do this during the day.*

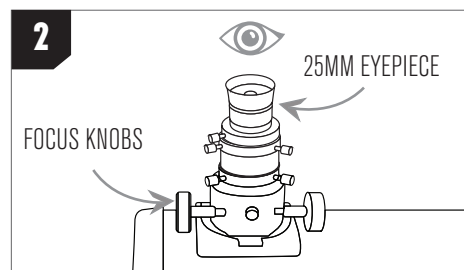


***SOLAR WARNING!** Never attempt to view the Sun through any telescope without a proper solar filter!



1. Choose a Target

Take the telescope outside during the day and find an easily recognizable object, such as a streetlight, car license plate or sign. The object should be as far away as possible, but at least a quarter mile away.



2. Center the Target in the Eyepiece

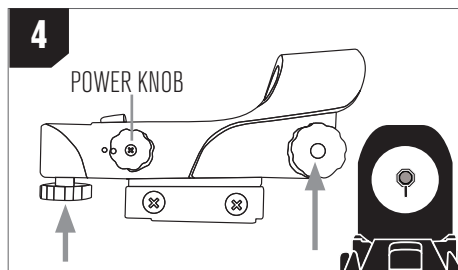
Look through the telescope using the 25mm eyepiece. Move the telescope until the object you chose lies in the center of the view. If the image is blurry, gently turn the focus knobs until it comes into sharp focus.

NOTE: The image in your telescope may appear inverted. This is perfectly normal in an astronomical telescope.



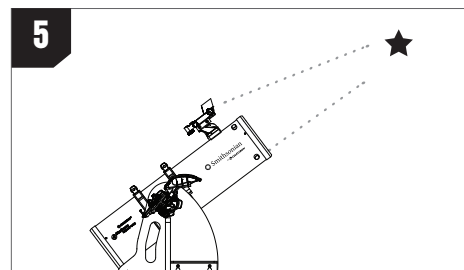
3. Look Through Finderscope

Pull the battery protection tab out of the StarPointer and turn it on to maximum brightness using the on/ off knob. Look through the StarPointer and locate the red dot.



4. Adjust the Finderscope

Without moving the telescope, use the two adjustment knobs to move the red dot until it appears over the same object you are observing in the telescope's low-power eyepiece.



5. Your Finderscope is Now Aligned!

It should not require realignment unless it is bumped or dropped. Now, when you look through the StarPointer, the red dot will indicate where the telescope is pointing. Don't forget to turn off the red dot when you are finished to conserve battery.

Your First Night Out

Congratulations! Your telescope is now set up and you are ready to explore the cosmos. Take the telescope outside, insert your 25mm eyepiece, remove the lens cap, insert your smartphone into the holder, and launch the StarSense Explorer app. The tutorial in the app will walk you through the steps to find your first astronomical target.

For more information on this product, please visit the respective product page on celestron.com/ssetelesopes



Celestron Tools for Astronomers

Bonus Software

Your purchase includes software for your computer. You don't need to download this software to use your telescope, but it can enhance your experience.



Celestron Starry Night Astronomy Software

Celestron Starry Night, the premier astronomy software on the market, takes you on a guided tour of our Solar System's past, present, and future. It can help you learn about the night sky and plan your next observing session. Use Starry Night to model exactly how the night sky will appear from your backyard, a neighboring town, or anywhere on Earth.

MINIMUM SYSTEM REQUIREMENTS

Windows:

- Windows 7 or higher
- 500MHz or higher processor
- 128 MB RAM
- 850 MB hard disk space
- 32 MB OpenGL-capable graphics card
- Monitor with 1024x768 pixel resolution (recommended)

Mac:

- Universal binary (PPC/Intel-compatible)
- OS X 10.4 or higher (10.5 or higher for Elementary)
- G3 450 MHz or higher processor
- 128 MB RAM
- 850 MB hard disk space
- 32 MB OpenGL-capable graphics card
- Monitor with 1024x768 pixel resolution (recommended)

Safety Instructions

- There is a risk of explosion if the battery is replaced with an incorrect type.
- The included battery is not rechargeable.
- Only use the battery as originally intended to avoid a short circuit. Connecting the conductive material directly to the battery's positive and negative sides will cause a short circuit.
- Do not use a damaged battery.
- Do not store the battery in an extremely cold or hot environment. Doing so can reduce battery life.
- Remove batteries if drained or if product is to be left unused for a long time.
- When replacing the battery, refer to the instruction manual and ensure the positive and negative sides are oriented correctly.
- Do not put the battery in fire.
- Dispose of the battery according to local regulations.

NEED ASSISTANCE? Contact Celestron Technical Support
celestron.com/pages/technical-support

This product is designed and intended for use by those 14 years of age and older. Product design and specifications are subject to change without prior notification. Made in China | 06-26



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UK: Unit 2 Transigo, Gables Way, Thatcham RG19 4JZ, United Kingdom



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FCC IDENTIFIER: 2A2FG-93974

NOTE: FCC certification is for the Bluetooth Remote Control included with this product. Model # 93974

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC NOTE: This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

WARRANTY



celestron.com/pages/warranty



SOLAR WARNING: Never attempt to view the Sun through any telescope.



BATTERY WARNING	
	• INGESTION HAZARD: This product contains a button cell or coin battery. • DEATH or serious injury can occur if ingested. • A swallowed button cell or coin battery can cause Internal Chemical Burns in as little as 2 hours. • KEEP new and used batteries OUT OF REACH OF CHILDREN • SEEK IMMEDIATE MEDICAL ATTENTION if a battery is suspected to be swallowed or inserted inside any part of the body.