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TASCO 30060402

Tasco Novice 60x700mm Refractor Telescope Instruction Manual

Your guide to exploring the cosmos with ease.

Introduction

Welcome to the world of astronomy with your new Tasco Novice 60x700mm Refractor Telescope. This telescope is designed for budding astronomers and enthusiasts, offering a reliable and easy-to-operate platform for viewing celestial objects. With a maximum magnification of 420x, you can observe the rings of Saturn, Jupiter, and other bright deep-space objects. Its refractor design, combined with high-quality glass optics, ensures clear, bright, and crisp images. The rack and pinion focus and alt-azimuth mounts enhance its user-friendliness for all ages. Its portability and rugged construction make it suitable for both home use and on-the-go observations.



Figure 1: The Tasco Novice 60x700mm Refractor Telescope fully assembled.

Safety Information

- **Never look directly at the sun through your telescope or its finderscope.** Doing so can cause immediate and

irreversible eye damage, including blindness.

- Do not leave the telescope unsupervised, especially when children are present.
- Handle optical components with care to avoid scratches or damage.
- Ensure the tripod is stable on a flat, secure surface to prevent tipping.

Package Contents

Before beginning assembly, please verify that all components listed below are present in your package:

- Telescope Optical Tube (60x700mm Blue Refractor)
- Adjustable Tripod
- 6x24 Finderscope
- Eyepieces (various magnifications, e.g., H12.5mm, H25mm)
- Diagonal Mirror
- Moon Filter
- Accessory Tray
- Carrying Bag (Bonus)



Figure 2: Unpacked components of the Tasco Novice Telescope.

Setup Guide

1. Assembling the Tripod

1. Carefully remove the tripod from its packaging.
2. Extend the tripod legs to their full length. Ensure the leg locks are securely fastened.
3. Attach the accessory tray to the center brace of the tripod. This tray provides stability and a convenient place for your eyepieces.
4. Adjust the height of the tripod legs to a comfortable viewing level. The large knobs on the side allow for easy adjustment, even for younger users.



Figure 3: The adjustable tripod base.

2. Attaching the Telescope Optical Tube

1. Locate the mounting bracket on the telescope optical tube.
2. Align the mounting bracket with the alt-azimuth mount on the tripod head.
3. Securely fasten the optical tube to the mount using the provided screws or knobs. Ensure it is firmly attached to prevent accidental movement.

3. Installing the Finderscope

1. Slide the finderscope into its bracket on the main telescope tube.
2. Tighten the small screws on the bracket to hold the finderscope in place.
3. Align the finderscope with the main telescope by looking through both and adjusting the finderscope until both show the same distant object (e.g., a distant tree or building during the day).

4. Inserting Eyepieces and Diagonal

1. Insert the diagonal mirror into the focuser tube of the telescope. Secure it with the thumbscrew.
2. Choose an eyepiece (start with the lowest magnification, e.g., H25mm, for a wider field of view).
3. Insert the chosen eyepiece into the diagonal mirror. Secure it with the thumbscrew.

Operating Your Telescope

Focusing

Once you have aimed your telescope at an object using the finderscope, look through the eyepiece. Turn the focus knob slowly until the image appears sharp and clear. For best results, make small, precise adjustments.



Figure 4: Observing through the Tasco Novice Telescope.

Magnification and Eyepieces

Your telescope comes with different eyepieces to provide varying magnifications. Lower power eyepieces (e.g., H25mm) offer a wider field of view and a brighter image, ideal for viewing the full Moon, star clusters, and constellations. Higher magnification eyepieces (e.g., H12.5mm) are used to focus on finer details of the Moon and planets, such as mountains, ridges, and craters. Remember that higher magnification also makes the image dimmer and more susceptible to atmospheric conditions.

Observing Celestial Objects

- **Moon:** The Moon is one of the easiest and most rewarding objects to observe. Use the moon filter to reduce glare and enhance contrast.
- **Planets:** Jupiter and Saturn are often visible and offer stunning views of their features, such as Jupiter's major moons and Saturn's rings.
- **Star Clusters and Nebulae:** Many bright star clusters and nebulae can be observed, appearing as fuzzy patches or

collections of stars.

- **Light Pollution:** For optimal viewing, try to observe from locations with minimal light pollution.

Maintenance

- **Cleaning Lenses:** Use a soft, lint-free cloth specifically designed for optical lenses. Gently wipe away dust. For stubborn smudges, use a specialized optical cleaning solution sparingly.
- **Storage:** When not in use, store your telescope in a dry, dust-free environment. Use the provided carrying bag for protection.
- **Avoid Extreme Temperatures:** Do not expose the telescope to extreme hot or cold temperatures, as this can affect its performance and longevity.

Troubleshooting

Problem	Possible Cause	Solution
Image is blurry or out of focus.	Improper focus; atmospheric conditions.	Adjust the focus knob slowly. Wait for stable atmospheric conditions.
Cannot find objects.	Finderscope not aligned; incorrect aiming.	Align the finderscope with the main telescope. Practice aiming at bright, easy-to-find objects first.
Image is dim.	High magnification eyepiece; light pollution.	Switch to a lower magnification eyepiece. Move to a darker viewing location.
Telescope is unstable.	Tripod legs not fully extended or locked; uneven surface.	Ensure all tripod leg locks are secure. Place the tripod on a flat, stable surface.

Specifications

Feature	Detail
Brand	TASCO
Model Name	30060402
Optical Design	Refractor
Objective Lens Diameter	60 Millimeters
Optical Tube Length	402 Millimeters
Maximum Magnification	420x
Finderscope	6x24 Reflex
Eyepiece Lens Description	Barlow (includes various eyepieces)
Telescope Mount Type	Altazimuth Mount
Focus Type	Manual Focus (Rack and Pinion)

Feature	Detail
Item Weight	7.9 Pounds
Product Dimensions (LxWxH)	30.5"D x 11"W x 8"H
Material	Blend
Skill Level	Beginner

Warranty and Support

Tasco products are manufactured to high standards and are designed to provide years of reliable use. For specific warranty information, including terms and conditions, please refer to the warranty card included with your product or visit the official Tasco website. If you encounter any issues or require technical assistance, please contact Tasco customer support through their official channels. Keep your purchase receipt as proof of purchase for any warranty claims.
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