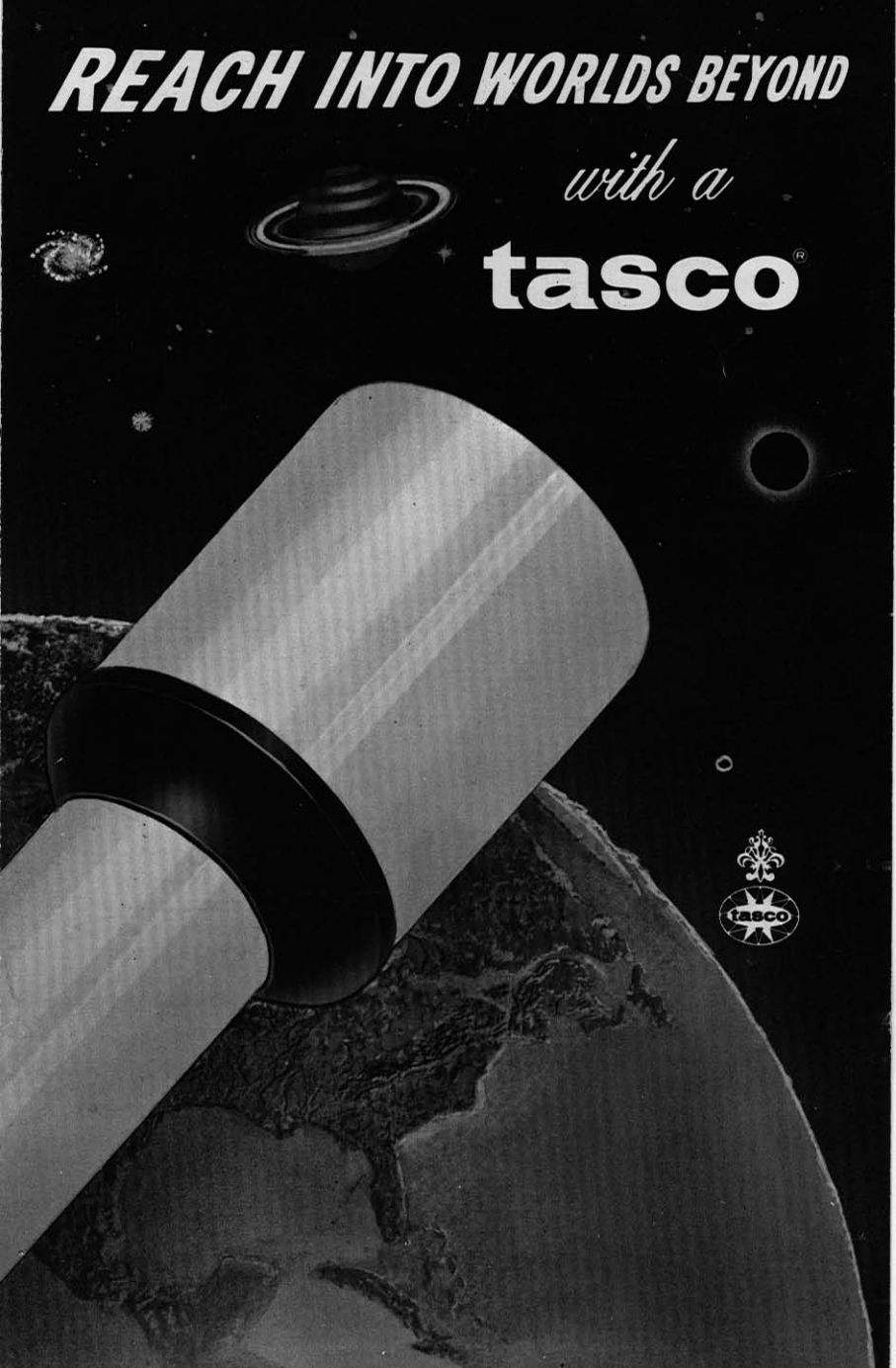
REACH INTO WORLDS BEYOND

with a

tasco®



INSTRUCTION SHEET

#66TE

180 POWER TASCO TELESCOPE

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OPERATING YOUR TASCO 66TE TELESCOPE

It is best to set up your Tasco telescope in daylight hours in order to become completely familiar with its operation.

1. Carefully remove the parts from the box taking care to identify them as per the list on the opposite page.
2. Attach the tripod legs to the base of the tripod head, spread the legs and attach the triangular accessories tray to the brackets of the tripod legs. Use small wing nuts and bolts. Mount the finderscope and bracket on the main telescope tube and fasten securely with the knurled mounting screws.
3. Insert the diagonal prism into the end of the focusing tube. Place the 30X (H20MM) eye lens into the prism. Remove the plastic dust cover from the end of the telescope and aim at a distant object by sighting along the main tube. The further away the object is, the better. Focus the telescope by rotating the pinion knobs until the object comes into focus. Correct for any error in aiming by adjusting up or down. Loosen azimuth locking screw to move the scope in the proper direction. Remove the 30X eye lens and insert the 120X lens (H5MM) and refocus. Be sure that it is centered in the eye piece. Lock the azimuth by tightening the azimuth locking screw. Now by manipulating the three adjusting screws on the finderscope, adjust the finderscope so that the crosshairs intersect the same point of the object that appears in the eye piece of the main telescope. The object will appear upside-down in the finderscope, but this is normal and nothing to be alarmed about. Now, your finderscope is reasonably accurate and in alignment with the main telescope. Further adjustment may be necessary when focusing on a star or a planet. The finderscope may be focused sharply by rotating the eye lens in or out.

CAUTION: The telescope will not produce an image if the diagonal prism is not used. EXCEPTION: 1.5X erecting eye piece.

When using the telescope for terrestrial (viewing objects on earth) use, remove the eye pieces and the diagonal prism. Insert the 1.5X erecting eye piece accessory into the focusing tube of the telescope. Then insert one of the eye lenses into the 1.5 terrestrial eye piece, and focus as before. This accessory will produce an erected image, and it will also increase the power of the eye lens used with it by 50 per cent.

When the H5MM eye lens (120X) is used with the 1.5X terrestrial eye piece, an erected image is produced and magnification is 180X. When the 12.5MM eye lens (48X) is used with the 1.5X erecting eye piece, an erected image is produced and the magnification is 72X.

For celestial (viewing the stars and planets) insert the diagonal prism in the end of the focus tube and then insert one of the eye lenses into the diagonal prism. Locate the star or planet in the finderscope at the intersection of the crosshairs. The object should now be seen in the eye piece of the telescope. Focus until the image is sharpest.

SPECIAL NOTES

The budding astronomer always thinks of power. The power of a telescope is important, but it is not the most important quality of your telescope. Magnification is theoretically unlimited, but the practical number of magnifications should not exceed about 60 power per inch of diameter of the objective lens for ideal viewing. When this ratio is exceeded, the quality of the image produced diminishes rapidly.

For best results in most observations, it is better to employ the lesser powers. This gives the observer the benefit of a larger field of view, a brighter and crisper image, and sharper detail. The high powers should be used only when it is necessary to "move" in closer for a better look at a small area.

As the power is increased, the area covered by the lens decreases and the subject being observed is larger. The brilliance of the image and the sharpness of detail diminish in proportion to the increase of power.

Additional information for more complete coverage of the many ways your telescope can be used may be found in your local library. Many inexpensive books are on sale at news-stands, in book stores, and in the book departments of department stores which will prove interesting and valuable in your work with your telescope.

Like any fine instrument your Tasco telescope should be handled carefully. The lenses should not be taken apart, and the surface of the lenses should be kept free of finger smudges. To clean the surface of the lenses, we recommend wiping with a kleenex-type tissue and blowing the lens off with an ear-type syringe. Sometimes breathing lightly on the surface of the lens to be wiped will help remove surface dirt. Special lens cleaning fluid may also be used. The small bags of Silica Gel are for absorbing moisture. They may be dried in the sun or in an oven to restore absorbent qualities.

ACCESSORIES AVAILABLE FROM YOUR TASCO DEALER

EYE PIECES

Focal Length	Type	3TE	6TE	7TE 7TE2	7TE5	9TE 9TE2	10TE	11TE 11TEA 11TEA2	12TE	12TE2	15TE
SR4MM	(Ramsden)	185X	150X	227X	250X	175X	300X	225X	175X	200X	300X
OR4MM	(Orthoscopic)	185X	150X	227X	250X	175X	300X	225X	175X	200X	300X
H6MM	(Huygens)	117X	100X	152X	167X	117X	200X	150X	117X	133X	200X
OR6MM	(Orthoscopic)	117X	100X	152X	167X	117X	200X	150X	117X	133X	200X
H9MM	(Huygens)	77X	66X	101X	111X	77X	133X	100X	77X	89X	133X
K12MM	(Kellner)	58X	50X	76X	83X	58X	100X	75X	58X	67X	100X
K22MM	(Kellner)	32X	27X	41X	45X	32X	54X	41X	32X	36X	54X
HM25MM	(Huygens)	28X	24X	36X	40X	28X	48X	36X	28X	32X	48X
AH40MM	(Huygens)	17X	15X	23X	25X	17X	30X	22X	17X	20X	30X

ACCESSORIES

2X Barlow (Spec Telescope)	YES	NO	YES	YES	YES	YES	YES	YES	YES	YES
1.5 Erecting eye piece	NO	YES	YES	YES	YES	YES	NO	YES	YES	YES
Sun Diagonal Prism	NO	YES	YES	YES	YES	YES	NO	YES	YES	YES
Star Diagonal prism	NO	YES	YES	YES	YES	YES	NO	YES	YES	YES
Erecting Prism	NO	NO	YES	YES	NO	YES	NO	YES	YES	YES
Sun Filter (Spec telescope)	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Moon Filter (Spec telescope)	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Camera Adapter	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

NOTE: To determine the power developed by any eye piece with each telescope, divide the millimeter-size of the eye piece into the focal length of the telescope objective lens.

EXAMPLE: 4MM eye piece into 1200MM focal length equals 300 power.

YOUR tasco GUARANTEE

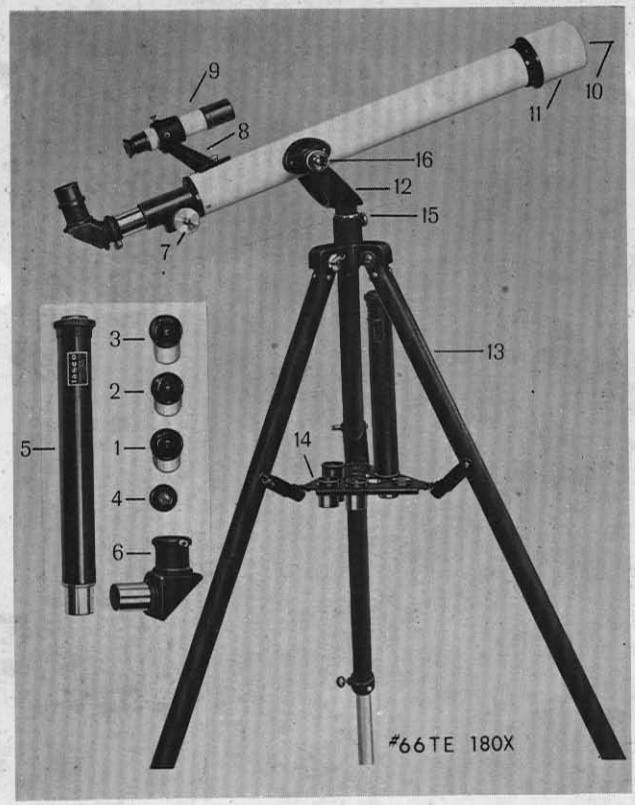
All Tasco Telescopes bear the Tasco Seal of Approval, which is your guarantee that they are free of any defects in regards to material used, as well as workmanship.

Should any Tasco Telescope prove to be defective by reason of material or workmanship, it will be repaired without charge or replaced. When your Telescope is not in use, always keep it protected.

Guarantee is always valid, the only exception being if the Telescope has been abused, or tampered with in any way.

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IMPORTANT FEATURES

1. H5MM eye lens (120X)
2. 12.5MM eye lens (48X)
3. H20MM ele lens (30X)
4. Sun filter
5. 1.5X terrestrial erecting eyepiece (produces upright image, increases power 50 per cent)
6. Diagonal prism (used for viewing stars and planets)
7. Pinion gear with knobs (focusing adjustments)
8. Finder mounting bracket
9. Finderscope (5x24MM) (for finding subject quickly)
10. 50MM objective lens in cell (focal length 600MM)
11. Sunshade
12. Tripod yoke
13. All metal tripod
14. Accessories tray
15. Azimuth locking screw
16. Altitude clamp screw

NOTE: For shipping purposes, the sun filter is screwed into the back of one of the eyepieces. This filter must be removed for normal use and is to be used only for looking directly into the sun.

When writing to us for information, instruction, parts, or service for your telescope, be sure to mention the registered number. This will help us give you better, faster service.