

G-80090TR

Galileo®



1564 - 1642

Instructions

G-80090TR

FOR ADDITIONAL HELP
PLEASE VISIT:



WWW.COSMOSOPTICS.COM

**IF YOU NEED ANY FURTHER HELP WITH YOUR GALILEO TELESCOPE
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OR E-MAIL US AT CUSTOMERSERVICE@COSMOSOPTICS.COM**

GALILEO G-80090TR OPERATING INSTRUCTIONS INTRODUCTION

THIS TELESCOPE HAS BEEN PRODUCED TO PRECISE SPECIFICATIONS.

PRIOR TO USING YOUR NEW GALILEO TELESCOPE, PLEASE READ THE FOLLOWING SETUP AND USAGE INSTRUCTIONS. IT IS IMPORTANT TO PROPERLY ASSEMBLE YOUR TELESCOPE IN ORDER TO ALLOW IT TO FUNCTION PROPERLY.

USE THE TELESCOPE FOR TERRESTRIAL (LAND) VIEWING BEFORE ATTEMPTING TO VIEW ASTRONOMICAL OBJECTS. THIS WILL FAMILIARIZE YOU WITH HOW POWERFUL EACH EYEPIECE WILL BE, AS WELL AS INTRODUCE YOU TO THE FUNCTIONS OF YOUR ACCESSORY LENSES.

THE IMAGE YOU SEE WILL BE UPSIDE DOWN AND BACKWARD. THIS IS DUE TO THE FACT THAT YOUR TELESCOPE IS AN ASTRONOMICAL TELESCOPE AND HAS BEEN MANUFACTURED FOR ASTRONOMICAL OBSERVATIONS. IN ASTRONOMICAL VIEWING, THERE IS NO UP OR DOWN, NO RIGHT OR LEFT.

WE RECOMMEND YOU BEGIN WITH THE LOWEST POWER EYEPIECE, 20MM WHEN USING YOUR TELESCOPE. AS YOU INCREASE THE POWER TO 6MM YOUR POWER WILL BE HIGHER, BUT THE IMAGE WILL APPEAR DARKER. THIS IS DUE TO THE BASIC PHYSICAL PROPERTIES OF THE TELESCOPE. THE HIGHER THE POWER YOU USE, THE DARKER THE IMAGE WILL APPEAR AND YOUR VIEWING FIELD WILL BE MORE NARROW.

PLEASE BE PATIENT WHEN USING YOUR TELESCOPE. IT IS A VERY SENSITIVE INSTRUMENT THAT IS CAPABLE OF USING HIGH POWER. HOWEVER, THE MORE POWER YOU USE, THE MORE SENSITIVE THE TELESCOPE BECOMES. AS A RESULT THE SLIGHTEST MOVEMENT OF THE TELESCOPE COULD CAUSE YOU TO LOSE THE IMAGE YOU HAVE IN YOUR EYEPIECE. PRACTICE WILL ENABLE YOU TO KNOW HOW MUCH MOVEMENT TO EXPECT WITH EACH EYEPIECE AND IT'S CORRESPONDING POWER.

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ACCESSORIES

- A. FULLY ADJUSTABLE TRIPOD



- B. EYEPIECES

20MM EYEPIECE =40X (LEAST POWERFUL- MOST LIGHT)
6MM EYEPIECE =133X (MOST POWERFUL- LEAST LIGHT)



- C. MARS-EYE ELECTRONIC FINDER:
USED TO LOCATE OBJECTS PRIOR TO
USING MAIN TELESCOPE
PLEASE NOTE YOU MUST ALIGN THE
FINDER WITH THE MAIN TUBE PRIOR TO
INITIAL ASTRONOMICAL OR TERRESTRIAL USE.



- D. 1.25 INCH HELICAL RACK & PINION FOCUSER.
ALLOWS FOR PRECISE FOCUSING.



- E. TRACKER MOUNT



- F. VERTICAL ADJUSTMENT



- G. HORIZONTAL ADJUSTMENT



- H. GALILEO STELLARIUM CD-ROM
FROM ANY LOCATION YOU CAN SEE THE
SKY AS IT APPEARS AT ANY TIME OF DAY,
OR EVEN IN THE FUTURE.



NOTE: SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

G-80090TR TELESCOPE

ASSEMBLY INSTRUCTIONS

CAUTION: NEVER POINT YOUR TELESCOPE AT THE SUN. VIEWING THE SUN WITH THIS TELESCOPE OR EVEN THE UNAIDED EYE CAN RESULT IN BLINDNESS OR OTHER SERIOUS EYE DAMAGE.

1. REMOVE ALL PARTS FROM BOX AND IDENTIFY THEM.

TELESCOPE W/MOUNT ATTACHED
TRIPOD(PREASSEMBLED)
MARS-EYE FINDER
EYEPIECES(6MM + 20MM)
ACCESSORY TRAY
CD-ROM

2. EXTEND TRIPOD LEGS EQUALLY AND TIGHTEN LOCKING KNOBS.

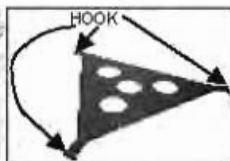


3. ATTACH TRACKER MOUNT TO TRIPOD AS SHOWN.
(DO NOT OVER TIGHTEN)

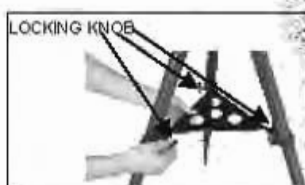
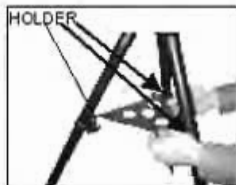
NOTE : TENSION SPRING & WASHER
LOCATED HERE



4. ATTACH ACCESSORY TRAY



ACCESSORY TRAY



- (1) SPREAD TRIPOD LEGS APART SO THE TRAY WILL FIT UNDERNEATH
(2) PLACE THE TRAY'S HOOK OVER THE HOLDER'S METAL ROD AND PUSH DOWN
(3) TIGHTEN THE HOLDER'S LOCKING KNOB TO HOLD THE ACCESSORY TRAY IN PLACE

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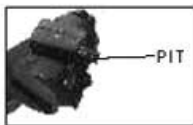
5. ATTACH THE TELESCOPE TO THE TRACKER MOUNT. LOOSEN CONNECTING TRACK KNOB AT THE TOP OF THE TRACKER MOUNTING BRACKET. SLIDE THE TELESCOPE INTO AND CENTER IT IN THE MOUNTING BRACKET. TIGHTEN THE CONNECTING KNOB.



6. LOOSEN SCREW ON MARS-EYE FINDER AND SLIDE ONTO BRACKET. TIGHTEN ATTACHMENT SCREWS. (PLEASE SEE FURTHER INSTRUCTIONS ON MARS'EYE FINDER).



7. ATTACH VERTICAL ADJUSTMENT TO TRACKER MOUNT. **TIGHTEN THE THUMB SCREW. MAKE SURE THE THUMB SCREW MATCHES THE PIT.**



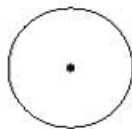
8. ATTACH HORIZONTAL ADJUSTMENT TO TRACKER MOUNT. **TIGHTEN THE THUMB SCREW. MAKE SURE THE THUMB SCREW MATCHES THE PIT.**



9. REMOVE CAPS WHEN TELESCOPE IS IN USE, AND REPLACE WHEN NOT IN USE. THIS WILL KEEP THE TELESCOPE'S OPTICS CLEAN.



10. THE COLLIMATION SPOT ON THE PRIMARY MIRROR IS FOR THE OPTICAL ALIGNMENT OF THE TELESCOPE, AND IS NOT A DEFECT.



FEATURES OF G-80090TR



HOW TO USE EYEPIECES & ACCESSORIES

PROPER PLACEMENT OF THE EYEPIECES AND ACCESSORIES ARE IMPORTANT IN ORDER TO ASSURE EASY OPERATIONS AND CLEAR VIEWING.

PLEASE CONSIDER USING YOUR ACCESSORIES IN THE FOLLOWING ORDER. BY DOING THIS YOU WILL BETTER UNDERSTAND THE IMPACT EACH INDIVIDUAL ACCESSORY HAS ON THE FUNCTION OF YOUR TELESCOPE.

1. FOCUSING TUBE - TURN FOCUSING WHEELS

TOWARD THE TELESCOPE UNTIL IT WILL GO NO FURTHER. TO FOCUS BEGIN TO TURN THE FOCUSING KNOBS TOWARD YOUR BODY, SLOWLY, UNTIL THE IMAGE IS CLEAR. NOTE: YOU MUST HAVE AN EYEPIECE INSERTED IN ORDER TO VIEW IMAGE. PLEASE READ FURTHER.



2. EYEPIECE INSERTION - INSERT AN EYEPIECE

INTO THE RECEIVING END OF THE FOCUSING TUBE. WE SUGGEST YOU ALWAYS BEGIN WITH THE LOWEST POWER EYEPIECE (20MM). THE LOWER THE NUMBER ON THE EYEPIECE, THE HIGHER THE POWER YOUR TELESCOPE WILL BE USING. ALSO AS YOU INCREASE YOUR POWER YOU WILL DECREASE THE FIELD OF VIEW AND THE BRIGHTNESS OF YOUR TELESCOPE. WE SUGGEST YOU ALWAYS USE THE LOWEST POWER REQUIRED TO VIEW YOUR SUBJECT.



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MARS-EYE ELECTRONIC FINDER MOUNTING & ALIGNMENT

TO MOUNT:

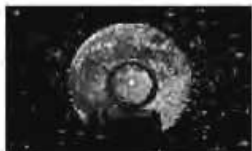
- 1) REMOVE MARS-EYE ELECTRONIC FINDER FROM BOX.
- 2) LOOSEN THUMB SCREWS ON SIDE OF FINDER AND SLIDE FINDER ONTO DOVETAIL MOUNT LOCATED AT TOP OF MAIN TELESCOPE TUBE.
- 3) TIGHTEN THUMB SCREWS.

TO CHECK ALIGNMENT WITH MAIN TELESCOPE: (IMPORTANT!)

- 1) THE MARS-EYE ELECTRONIC FINDER IS NOT PRE-SET AT FACTORY. THE FOLLOWING WILL ALLOW YOU TO ADJUST THE ALIGNMENT.
- 2) DURING THE DAY LIGHT HOURS, AIM THE MAIN TELESCOPE AT AN OBJECT AT LEAST 1/4 MILE OR MORE IN THE DISTANCE AND BRING IT INTO FOCUS. (VERY IMPORTANT)
- 3) ONCE YOU HAVE CENTERED THE REFERENCE ITEM IN THE MAIN TUBE, TIGHTEN ALL KNOBS AND ADJUSTMENTS TO PREVENT ANY MOVEMENT.
- 4) REMOVE CIRCULAR BATTERY SAVER LOCATED BENEATH FRONT OF FINDER (BE SURE TO SAVE AND REPLACE THE BATTERY SAVER WHEN NOT IN USE.)
- 5) TURN FINDER ON BY SLIDING ON/OFF SWITCH FORWARD. ON/OFF SWITCH IS LOCATED ON THE RIGHT SIDE OF THE FINDER.
- 6) LOOK THROUGH THE FINDER AND LOCATE THE RED DOT.



- 7) IF THE OBJECT IN THE MARS-EYE FINDER IS NOT THE OBJECT YOU SEE THROUGH THE MAIN TELESCOPE TUBE, ADJUSTMENT IS REQUIRED.
- 8) TO MOVE THE RED DOT UP AND DOWN, SIMPLY TURN THE ELEVATION SCREW LOCATED ON THE REAR BOTTOM OF THE FINDER TO HEIGHT REQUIRED.
- 9) TO MOVE THE RED DOT LEFT AND RIGHT, SIMPLY TURN THE WINDAGE SCREW LOCATED AT THE FRONT LEFT SIDE OF THE FINDER TO THE PROPER POSITION.
- 10) THESE ADJUSTMENTS WILL ALLOW YOU TO POSITION THE RED DOT ON THE SAME OBJECT CENTERED IN THE MAIN TELESCOPE.



POWER CHART

EYEPIECE	POWER
6MM	133X
20MM	40X

GETTING THE MOST FROM YOUR TELESCOPE

TAKE THE TIME TO BECOME FAMILIAR WITH YOUR NEW TELESCOPE. LEARN THE NAMES OF THE VARIOUS PARTS, WHERE THEY ARE LOCATED AND THEIR FUNCTION. IT IS BEST TO PERFORM THESE FUNCTIONS DURING THE DAY TIME.

WHEN SETTING UP FOR A VIEWING SESSION, PLACE THE TELESCOPE IN AN AREA SHELTERED FROM THE WIND IF POSSIBLE. THE BEST NIGHT TIME VIEWING WILL BE AWAY FROM CITY LIGHT AND WHEN THE ATMOSPHERE IS "STEADY".

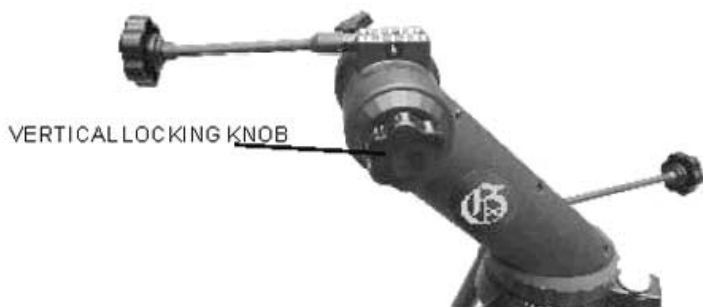
WITH A LITTLE PRACTICE YOU WILL LEARN TO JUDGE WHEN VIEWING CONDITIONS ARE GOOD. LOOK FOR THE NIGHTS WHEN THE STARS SHINE BRIGHTLY WITH LITTLE OR NO TWINKLING.

USE LOW POWER TO TAKE ADVANTAGE OF THE WIDER FIELD OF VIEW AND BRIGHTER IMAGE. RESERVE YOUR HIGHER POWERS FOR THOSE NIGHTS WHEN VIEWING CONDITIONS ALLOW FOR DETAILED OBSERVATIONS.

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TRACKER MOUNT LOCATING OBJECT

BEFORE LOCATING NEW OBJECT, RE-ALIGN YOUR VERTICAL AXIS



- A. LOOSEN VERTICAL LOCKING KNOB ENOUGH TO WHERE TELESCOPE CAN BE MANUALLY ADJUSTED UP AND DOWN.



- B. LOOSEN AZIMUTH LOCKING KNOB ENOUGH TO WHERE TELESCOPE CAN BE MANUALLY ADJUSTED LEFT AND RIGHT.
- C. POINT YOUR TELESCOPE IN THE DIRECTION OF YOUR TARGET OBJECT, ZEROING IN USING THE MARS EYE RED DOT FINDERSCOPE. (SEE PAGE 14)
ONCE OBJECT IS LOCATED THROUGH THE MARS EYE FINDERSCOPE, TIGHTEN BOTH THE VERTICAL LOCKING KNOB AND AZIMUTH LOCKING KNOB FIRMLY. DO NOT OVER TIGHTEN.

TRACKER MOUNT LOCATING OBJECT

- D. USING THE LOWEST POWER EYEPIECE (20 MM), LOOK THROUGH THE TELESCOPE TO SEE YOUR TARGET OBJECT.



- E. IF THE OBJECT IS NOT CENTERED IN THE EYEPIECE, USE THE TOP FLEX CABLE (MICRO VERTICAL ADJUSTMENT) FOR PRECISE UP AND DOWN MOVEMENTS, AND THE BOTTOM FLEX CABLE (MICRO HORIZONTAL ADJUSTMENT) FOR PRECISE LEFT AND RIGHT MOVEMENTS TO CENTER YOUR TARGET OBJECT IN THE EYEPIECE.

REMEMBER AS THE EARTH ROTATES THE OBJECT WILL DRIFT OUT OF VIEW IN THE EYEPIECE. USE THE TOP AND BOTTOM FLEX CABLES TO MAKE SIMULTANEOUS UP/DOWN AND LEFT/RIGHT MICRO ADJUSTMENTS TO KEEP YOUR TARGET OBJECT CENTERED IN YOUR EYEPIECE.

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TRACKER MOUNT LOCATING OBJECT

F. AS YOU MAKE UP/DOWN (VERTICAL) MICRO ADJUSTMENTS, BE CAREFUL TO MAKE SURE THE VERTICAL ADJUSTMENT GUIDE LINES DO NOT EXCEED THEIR PARAMETERS.



FIGURE 1.

G. WHEN THE GUIDE LINES APPEAR AS IN THE PICTURE BELOW, (FIGURE 2) RE-SET THE VERTICAL ADJUSTMENT USING THE TOP FLEX CABLE (MICRO VERTICAL ADJUSTMENT) TO MATCH FIGURE 1, THEN REPEAT STEP A. THROUGH STEP E.



FIGURE 2.

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