



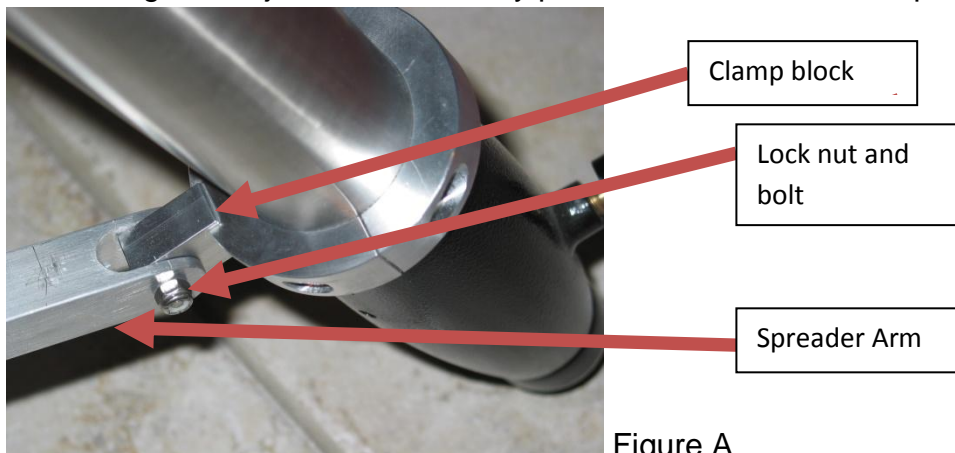
## Telescope Performance Improvements

### CGEM/EQ6/CG5/Atlas Spreader and Heavy Duty Battery Tray Installation

Thank you for your purchase- Your spreader and tray have been carefully designed specifically to improve the stiffness and stability of the tripod. The spreader exerts pressure on the top portion of the tripod and physically locks such that motion and play is removed. The spreader also provides much needed control and support for the tripod legs while folded.

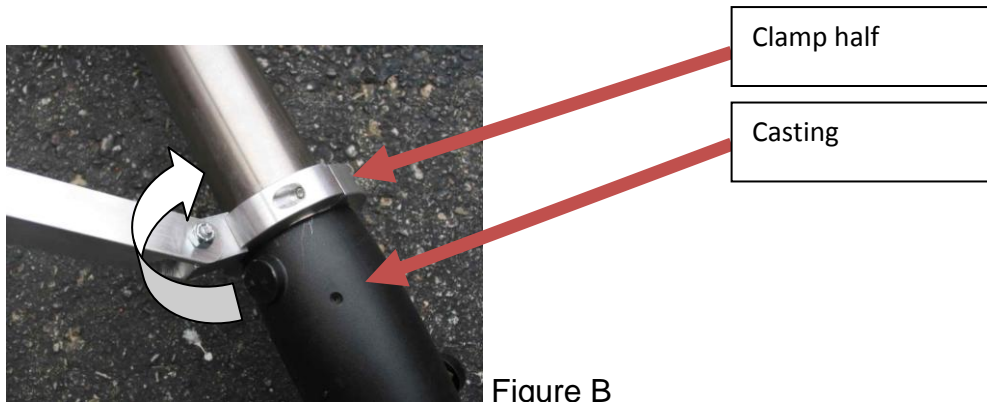
#### ASSEMBLY and ADJUSTMENT

- 1- Slide the small blocks attached to the clamp rings into the slotted end of the spreader arms.
- 2- Slide one of the provided #8 stainless steel screws through the slotted end holes and through the clamp block.
- 3- Spin on one of the provided nylock stainless lock nuts onto the screw and tighten **JUST** snug so the joint can still easily pivot. Do this for all 3 clamps See figure A



- 4- Remove the socket head #10 screws from each clamp half and separate the clamps. Place one clamp around your tripod leg near the bottom of the tube right above the casting as seen in figure B below.

5-Reassemble the clamp halves to each clamp but keep the screws loose at this time (just snug) so as to allow rotational adjustment. See figure B below



6-Open the spreader as shown in figure C below and carefully rotate the clamps so the legs are evenly spaced then **\*SNUG UP THE CLAMP SCREWS\***

Press down on the center of the spreader- **YOU WILL FEEL TENSION**, this is normal.

7- The spreader will tension the top of the tripod. If the tension is not sufficient (there should be a good snap action when the center is pushed down), release the tension and move the clamps up slightly (1/4" to start) and secure the socket head screws in the clamp halves. (they can be moved slightly more or less as required, every tripod is slightly different)

Once the tension is to your liking (you should have to push down with your hand and feel a moderate amount of tension) Tighten the clamp halves fully- do not over torque the screws.

See figure C (extended) and figure D (folded)



Figure C



Figure D

8-If you purchased the Optional Heavy duty battery tray- assemble the tray onto the spreader as shown and secure with the supplied clamp (on bottom of tray) as shown- Finger tighten the hand clamp knob only



Center of  
tripod fits to  
center of tray

9- The Battery tray and spreader will easily support large auto size and style deep cycle batteries to 50lbs+. Pads are already applied to the tray to protect the spreader arm finish.

6- The center set screws of the tripod are lock-tited in place and adjusted to provide motion over center- Do not adjust these set screws. See figure E



Do not adjust

Figure E

7-It is recommended that once your TPI spreader is tensioned, that the original Eyepiece holder/tray be also installed and the center knob tightened.

\*\*\*\* make sure to loosen the bolt BEFORE releasing tension from the TPI spreader\*\*\* or the eyepiece tray will be very difficult to loosen and remove.

## CARE and CLEANING

Your spreader and tray are made from 6061-T6 aircraft aluminum with superior corrosion resistance and strong mechanical properties. The parts are clear anodized and will provide many years of trouble free service.

Clean the parts with a damp cloth and a mild cleaning solution like Windex or equivalent as required. The fasteners on your TPI products are all stainless steel. A VERY light lubrication with a thin oil may be applied to the pivot points if required or desired depending on your location and frequency of use.

Comments or questions please contact Dave Yates at [dave@tpiastro.com](mailto:dave@tpiastro.com)