



Assembly Guide for the Juno Pole Bracket Kit

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The Juno Pole Bracket allows small cameras to be attached to a Ron Thompson Gangster Carp Pole for pole aerial photography. The bracket fits on the end of the second or third smallest pole sections of the carp pole (for 30.8 or 26.6 feet [8.1 or 9.4m] height). The hinged camera tray locks securely at any angle for horizontal, oblique, or nadir photography or video.

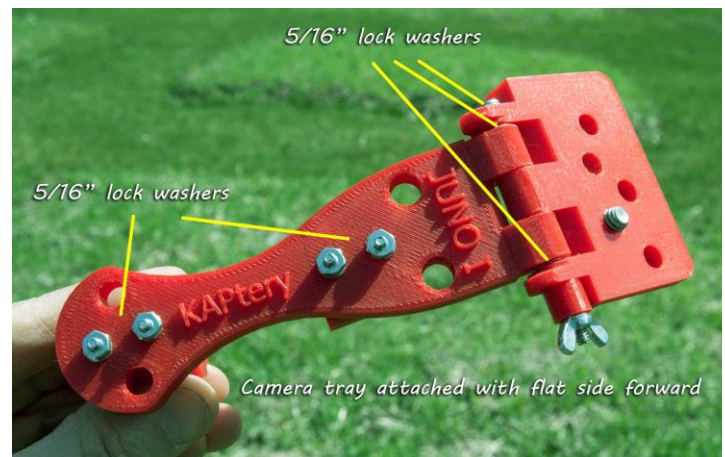
An option includes clamps for using the 32-foot telescoping pole from The Mast Company. Larger clamps fit the second smallest section of The Mast Company pole (for 28 feet height) and the standard clamps fit the smallest section.

Assembly

1. To attach the camera tray to the bracket, the long bolt must pass through three lock washers and a plastic spacer.
 - a. Fit the camera tray onto the bracket with the smooth side of the tray facing the same way as the text on the bracket.
 - b. Place one lock washer on the bolt and start the bolt into either end of the camera tray.
 - c. Insert a second lock washer into the space between the tray and bracket as the bolt is slid through the hole. Push the washer into place with a hard object.
 - d. Insert the third lock washer between the tray and bracket as the bolt is slid all the way through.
 - e. Place the plastic spacer on the end of the bolt.
 - f. Thread the wing nut onto the end of the bolt.

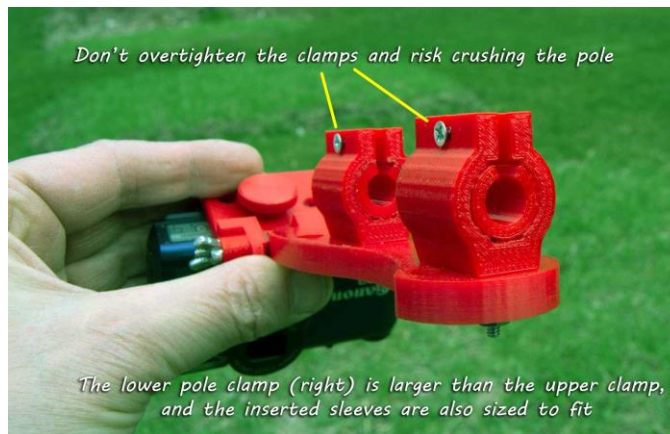
2. Insert thumb screw

- a. The camera can sit on either side of the camera tray. One side has a lip which can prevent the camera from rotating around the thumb screw, the other side is flat and allows the camera to rotate to any position (e.g., for portrait mode oblique photos).
- b. Select a hole for the thumb screw that will hold your camera in the desired position. New holes can be easily drilled. Plastic filament is included to melt (soldering iron) into existing holes if new holes must be too close to them.
- c. The thumb screw should thread through the plastic but turn easily when it is all the way in. If the screw does not turn freely, it is difficult to tighten the camera securely.



3. Attach the pole clamps

- a. The two standard pole clamps are not the same size. The larger clamp is labelled "BIG." The smaller one goes closer to the camera tray. The optional larger clamps are both the same size and are labelled "17mm."
- b. Insert the flat-head machine screws (larger ones) through the clamps then through the large part of the bracket.
- c. Put a lock washer on each screw and thread a nut on each screw against the lock washer.
- d. Before the nuts are tightened very much, insert the end of the pole to ensure that the two clamps are aligned. Then remove the pole and tighten the screws with a Phillips head screwdriver.
- e. Thread the smaller size flat head machine screws through the opening of the two clamps. These screws are shorter than the four screws holding the clamps on. No nuts are required. These screws do not have to be very tight, and making them too tight can **crush the end of the pole** and strip the threads in the plastic.
- f. To use the second smallest section of the carp pole, insert the two bushings into the clamps. The two bushings are different sizes to accommodate the taper of the pole. Bushings are also included with the optional 17mm clamps to reduce the interior diameter to 13mm.



The back of the camera is snug against the lip to prevent rotation. The bushings are in place to accommodate the penultimate pole section.