

Quick Start Guide for the KAPtery [Redstone Rig Kit](#)

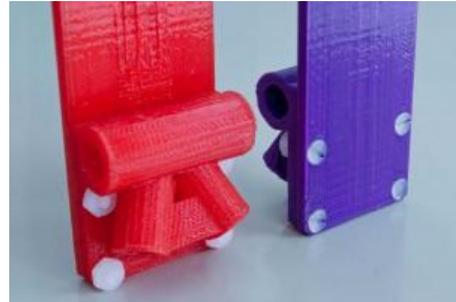
Full Assembly Guide, Parts List, and 3D Printing guide at [KAPtery.com/guides](http://kaptery.com/guides)

For spare parts: [KAPtery.com](http://kaptery.com) Technical support: <http://kaptery.com/contact/>

Assembling your Redstone Rig

Step 1. Attach leg brackets to upper frame

Fasten four nylon screws and bolts for each bracket as shown. The included bolts are nylon but the nuts are either nylon or steel.



Step 2. Drill camera tray for tripod screw

The goal is to fasten the camera to the tray with its back snug against one of the tray's lips and its center of mass centered along the long axis of the tray. Almost every camera will require a hole drilled in a different location.

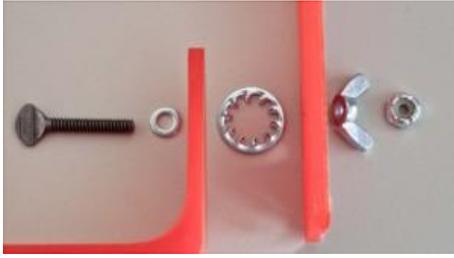


Balance the tray on a pencil as shown with camera back against a lip. Mark the location of the tripod socket on the tray (this requires a few steps of measuring and marking – see the [Redstone Rig Kit guide at kaptery.com/guides](http://kaptery.com/guides)).

Scratch a lead hole with a blade to get the drill bit started, and drill a small hole. Slowly enlarge the hole, sighting through it with the camera in place to check the location.



The thumb screw must turn freely in the hole before you try to thread it into the camera or you risk stripping the threads in the camera's tripod socket. But a tight fit prevents the thumb screw from falling out of the tray when the camera is not mounted. If the camera mounts too far from the lip, enlarge the hole toward the lip so the camera can be screwed on snug against the lip.



The wing nut goes on the outside of the frame.

Step 3. Attach camera tray to upper frame

The wide camera trays have a choice of three holes for the thumb screw. Use the one which allows your camera to balance best (front to back) with the lens extended. Connect the hardware as shown. The nylon insert lock nut should be threaded onto the end of the thumb screw just far enough so the screw end is flush with the outside of the nut.

Step 4. Configuring legs and bumpers



The traditional configuration is with four legs which protect the camera from dirt and wet grass during setup and against hard landings. There are two sizes of tubing — the thicker one is only for leg loops to replace the oak dowel legs (use short dowel pieces to attach loops to the brackets).

Step 5. Attaching the rig to a suspension system

Insert the shaft from a Picavet or pendulum into the bracket on top of the the rig frame. If required, enlarge the hole slightly with a 5/16" drill bit. Insert two cotter pins through the bottom of the shaft: one through the hole in the plastic bracket and one below the frame. Don't trust a single pin.



Step 6. Safe flying

Always secure the camera to the Redstone Rig with a lanyard. The wrist strap on point & shoot cameras works well for this.

Caution: The plastic parts of the Redstone Rig are 3D printed from poly lactic acid (PLA) which will deform if it gets too hot. Don't leave the rig in a closed car in direct sunlight on a hot day.