

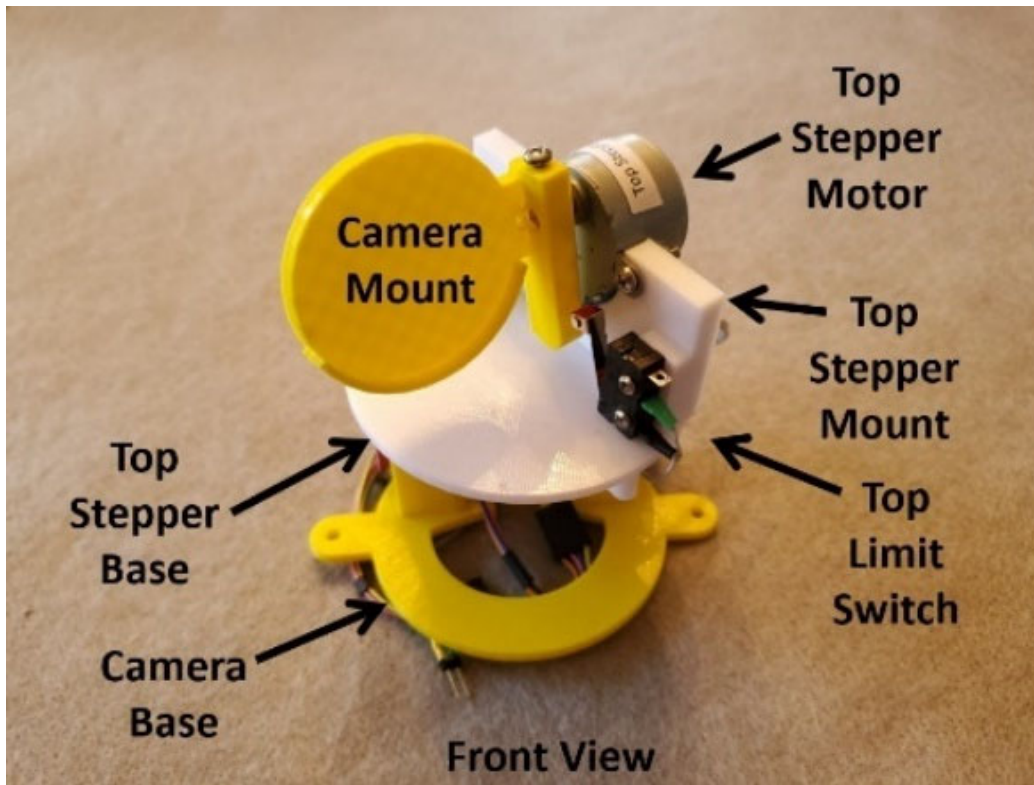
**Rover Camera Mount Assembly**  
**Jackson State University MARRS STEM Workshop**  
**February 27, 2021**

**Objective:** Complete the Camera Mount assembly and process successfully.

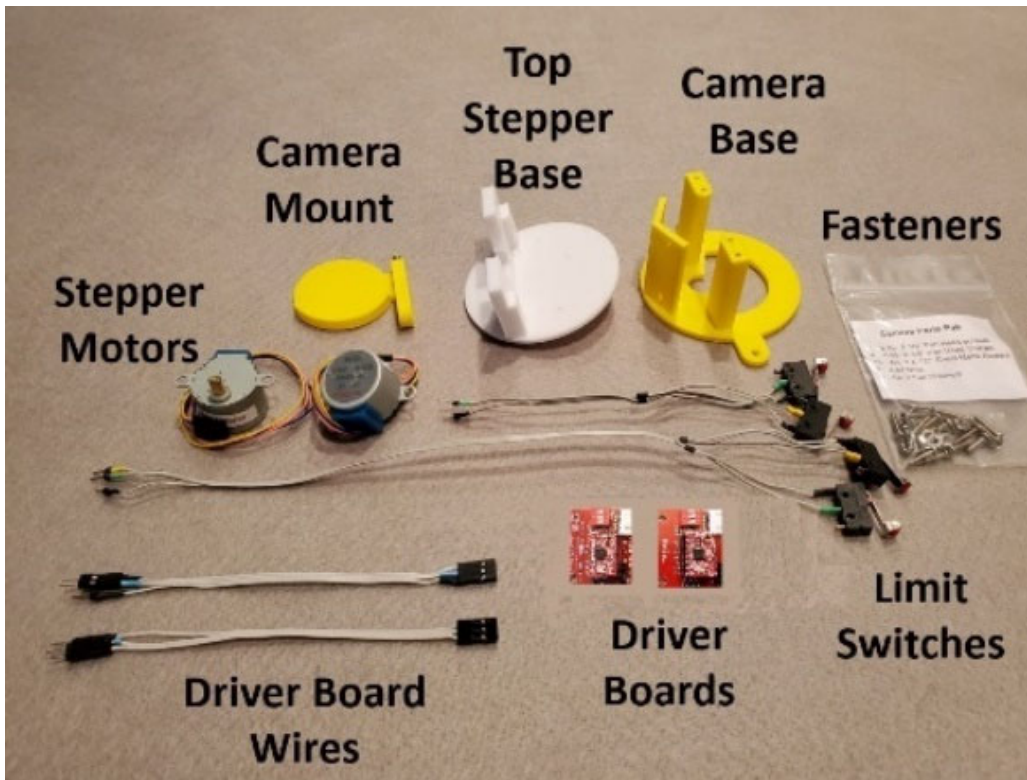
**Tools and materials:** Needle nose pliers, Phillip's screwdriver, camera parts kit.

### 1. Camera Mount Parts Identification

(1) Assembled Rover Camera Mount. The major parts are the camera mount base, top stepper base, top stepper mount, camera mount; top and bottom stepper motors, top and bottom limit switches. A miniature video camera (not shown) is attached to the camera mount with a magnetic plate. The photo shows all the parts that have been assembled.



(2) Verify that your Camera Mount package has all required parts. The parts include the camera base, top stepper base, camera mount, two stepper motors – both are the same, two pairs of limit switches (top switches have long wires and bottom switches have short wires, two driver boards, one fastener package (screws and nuts), and a pair of driver board wires. The photos show the individual parts of the camera mount unit to be assembled.



(3) Fasteners used in the assembly of the camera mount are machine screws and nuts and self-tapping sheet metal screws.



**Note: These parts are easily lost. It is recommended that a towel or other fabric be used to cover your work area.**

