

Figure 1: Finished Tug



Figure 2: Controls



Figure 3: Base Plate

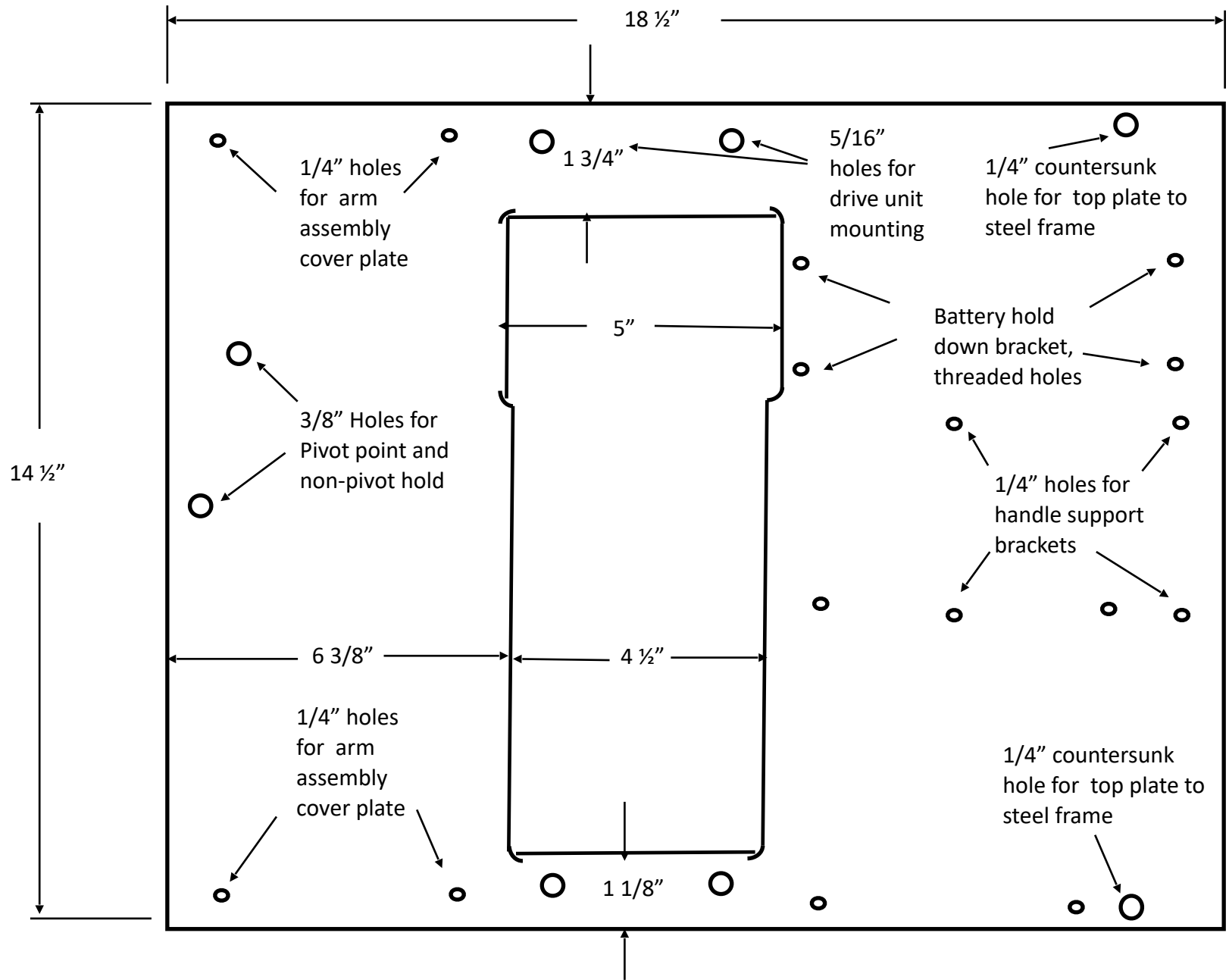


Figure 4: Base Plate Details

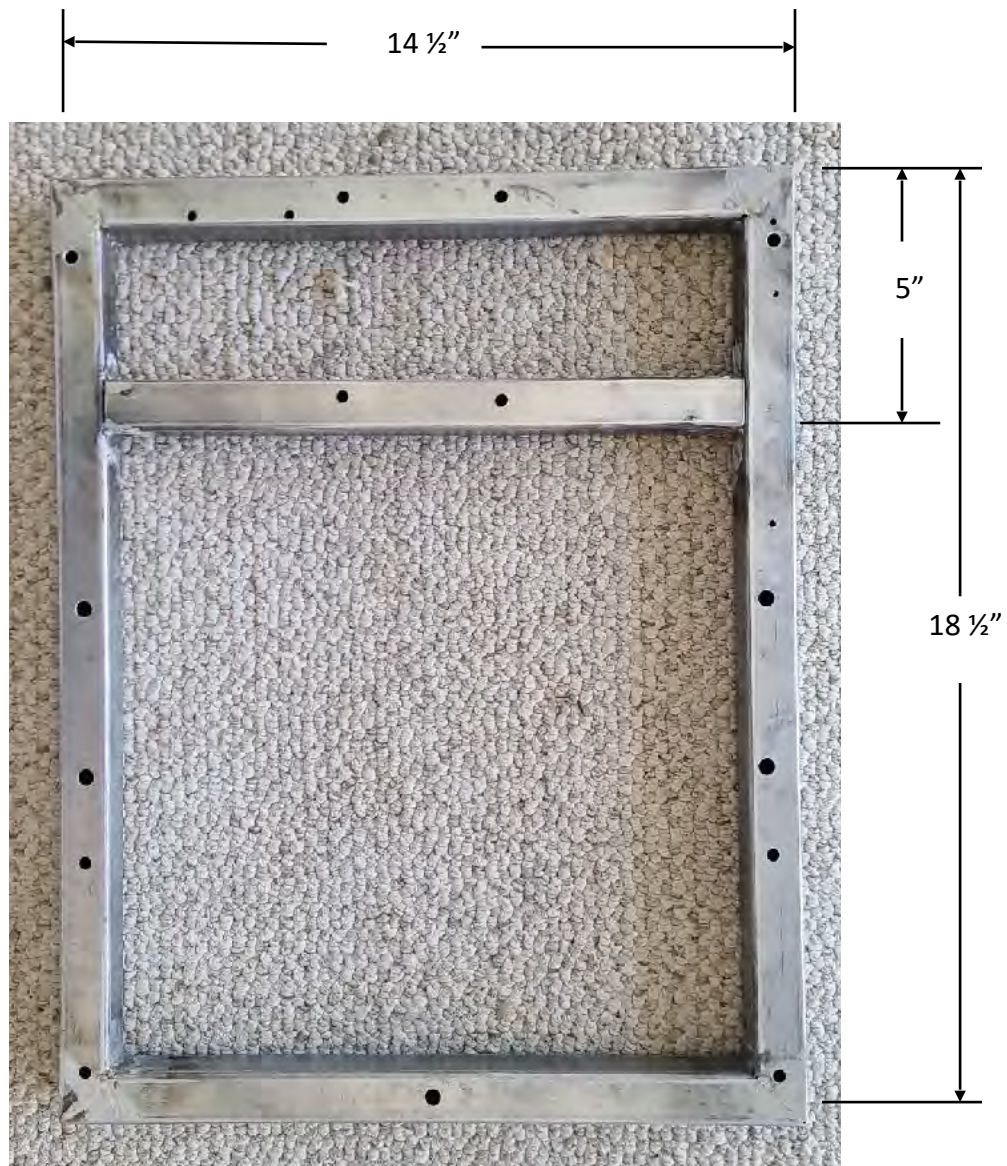


Figure 5: Steel Frame

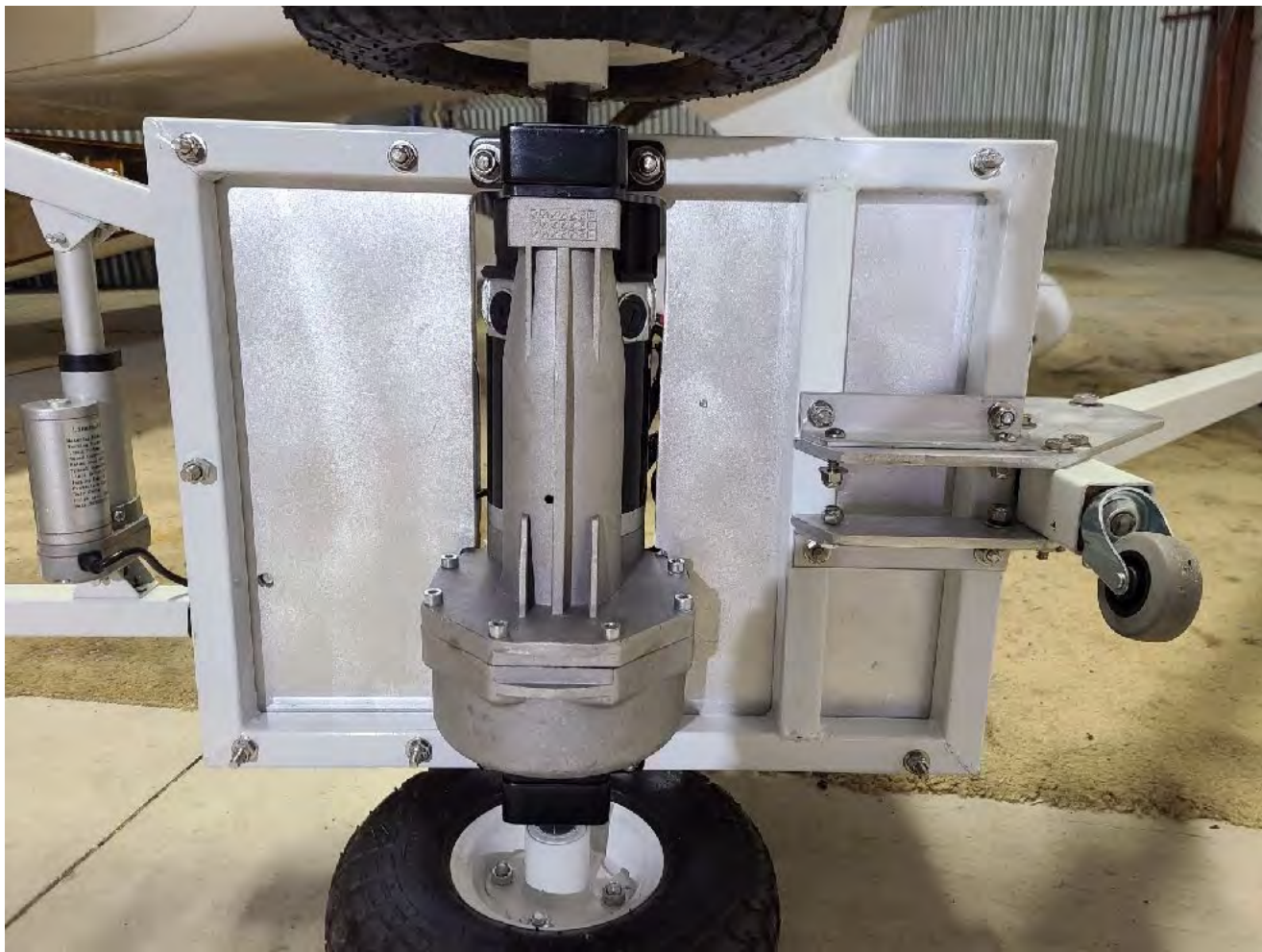
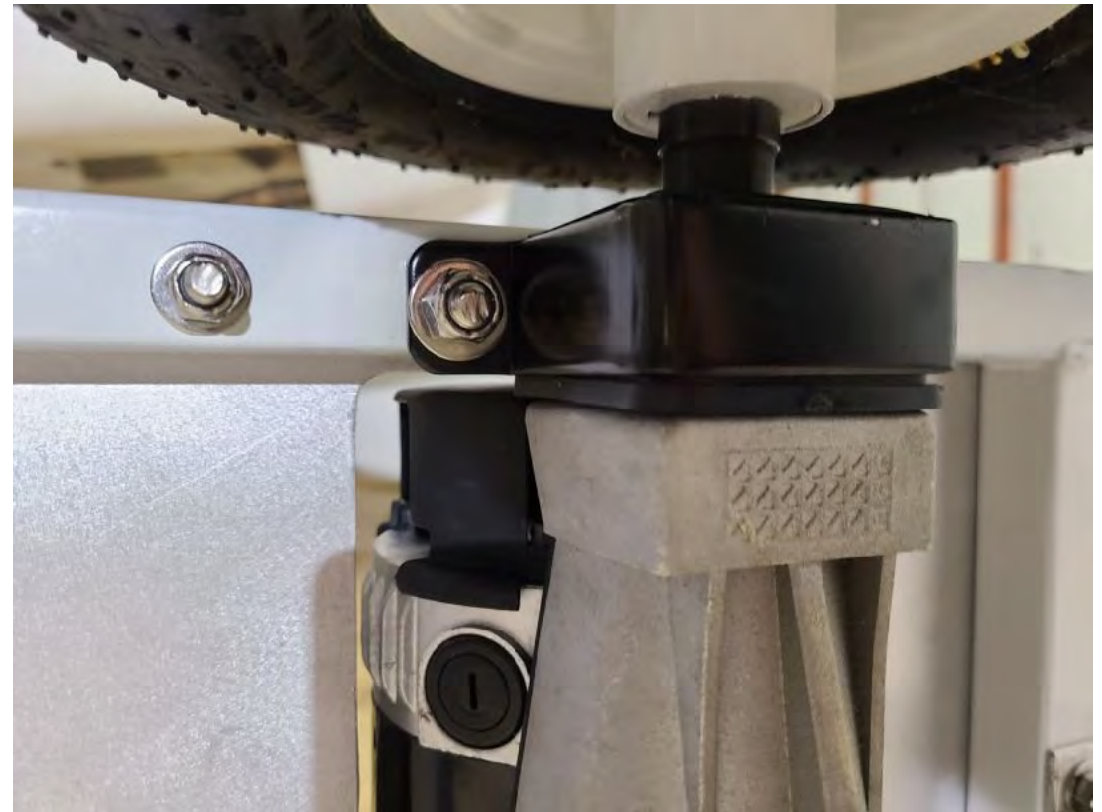


Figure 6: Bottom and motor mounting



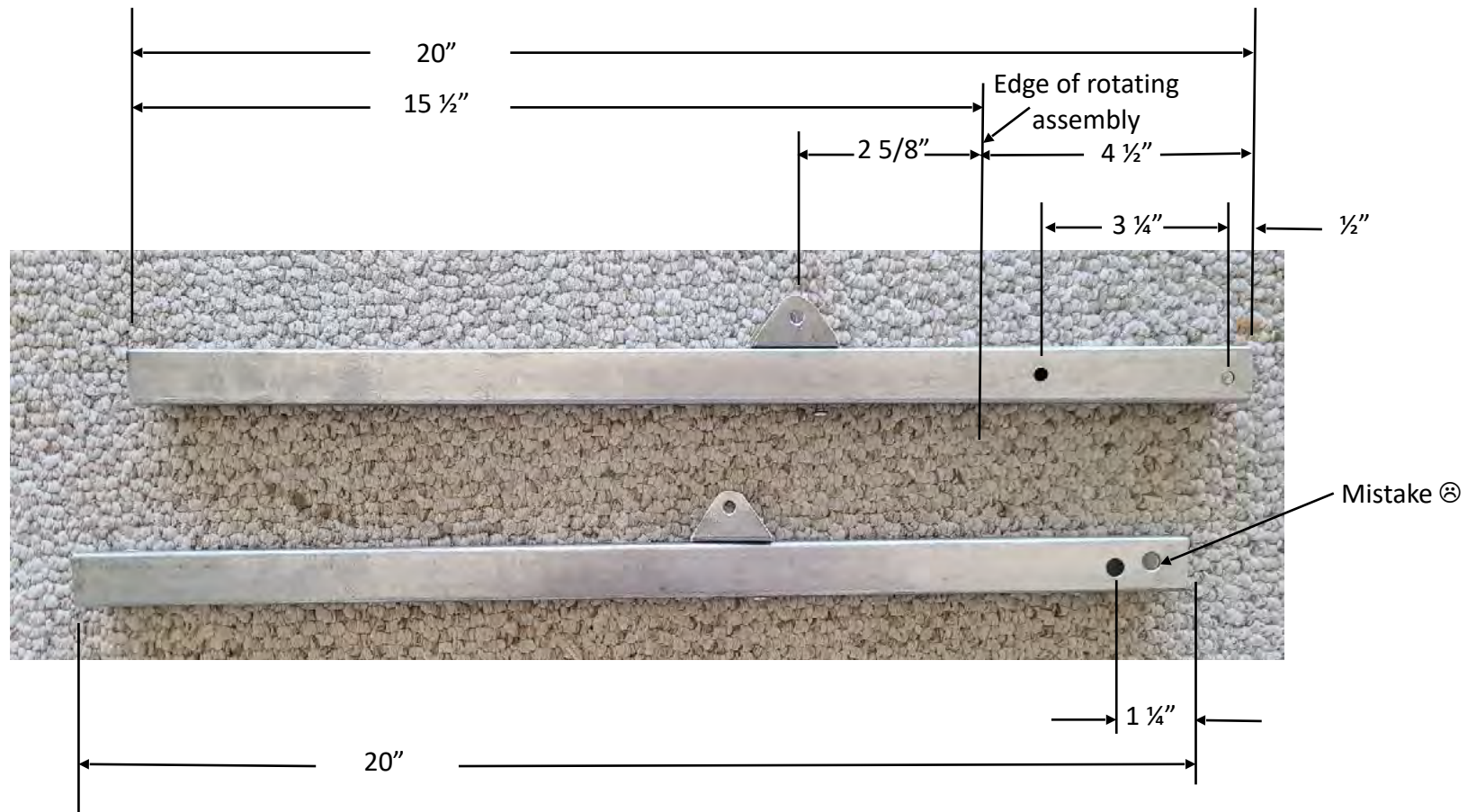


Figure 7: Arms

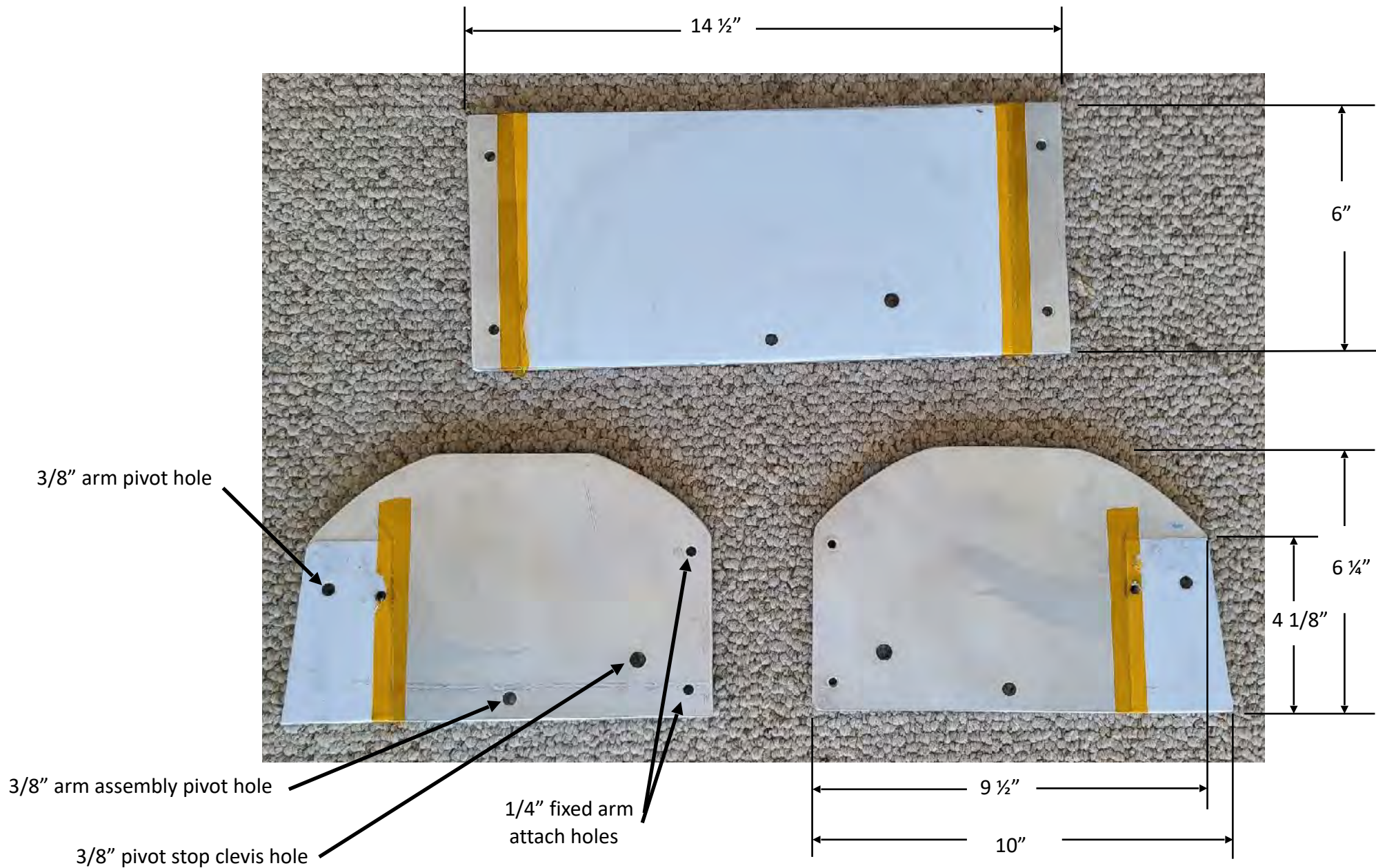


Figure 8: Pivoting Plates and Cover Plate





Figure 9: Linear Actuator and Plane Engagement Pins

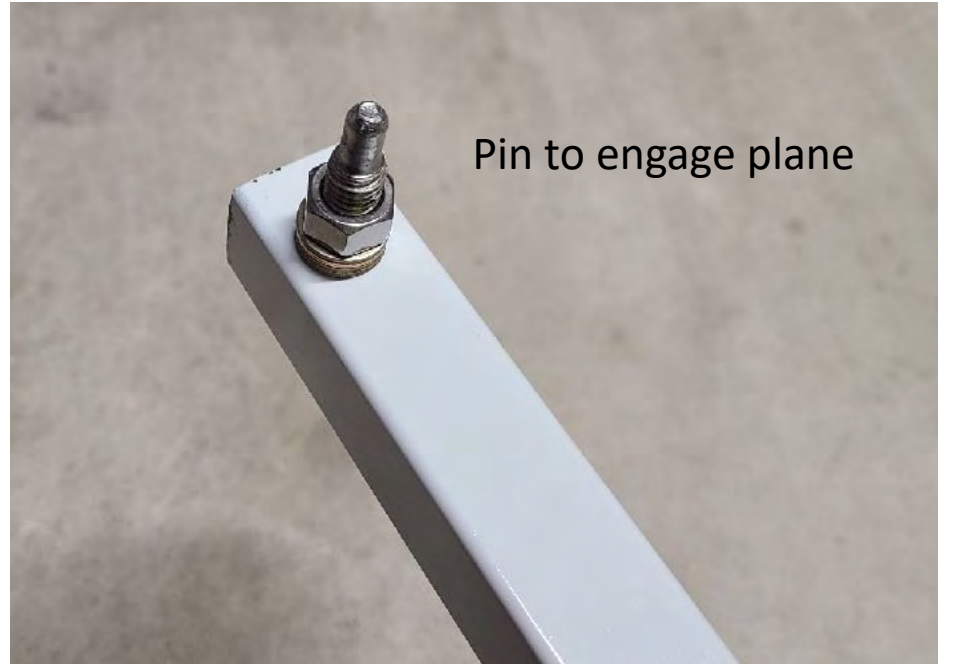




Figure 10: Handle and Foot

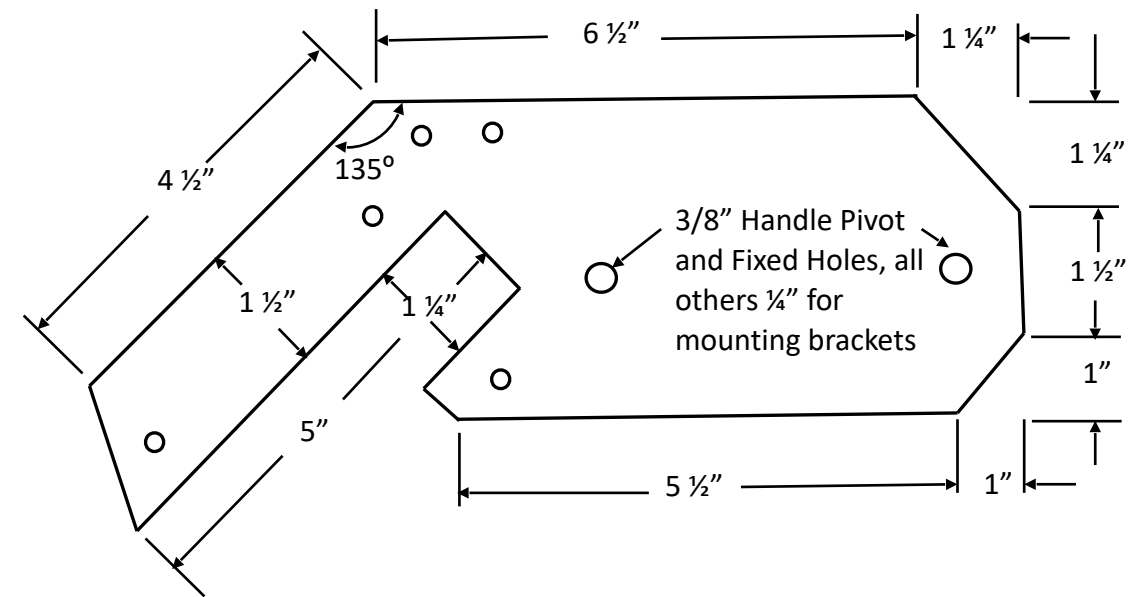
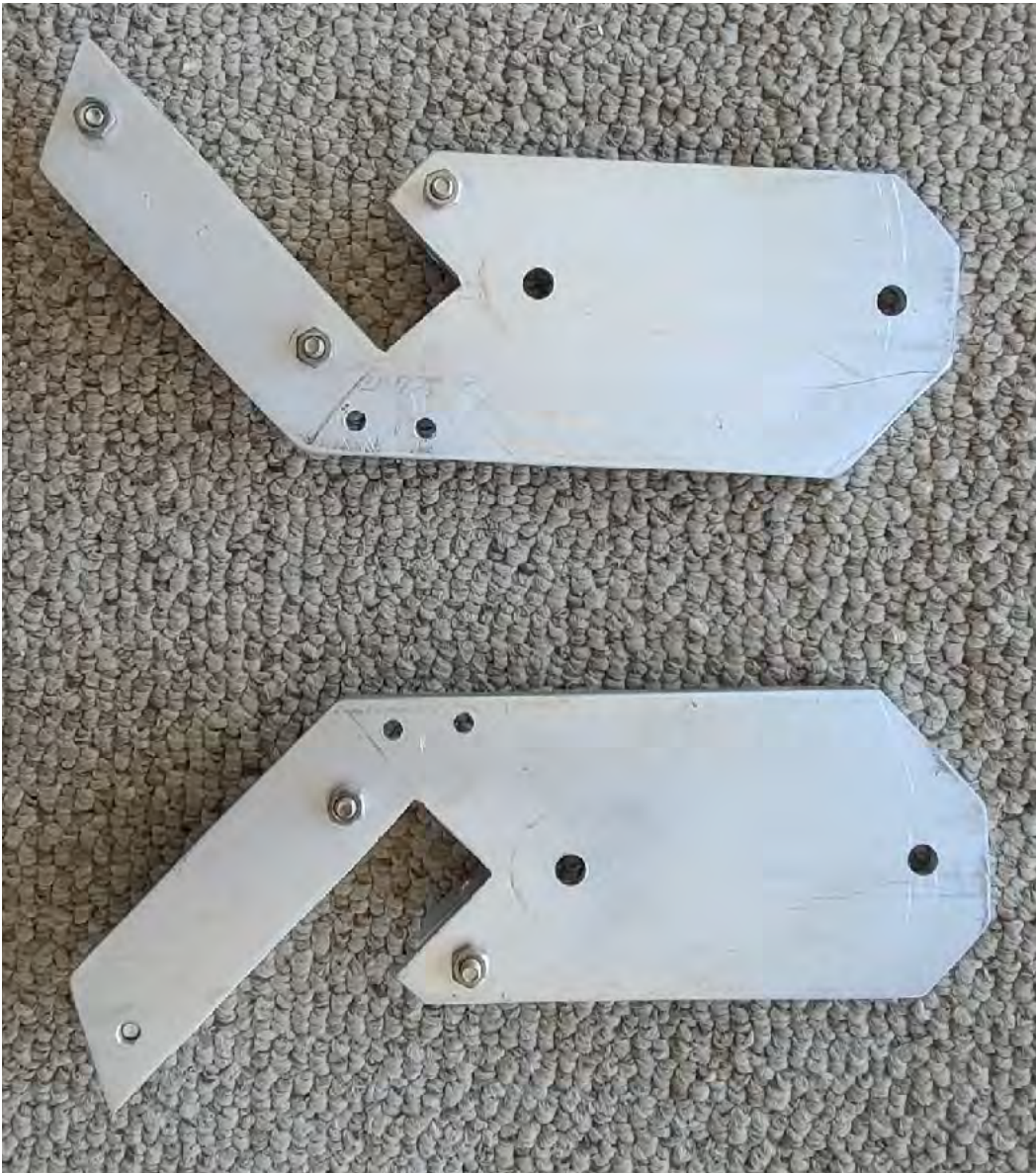


Figure 11: Handle Mounting Plates

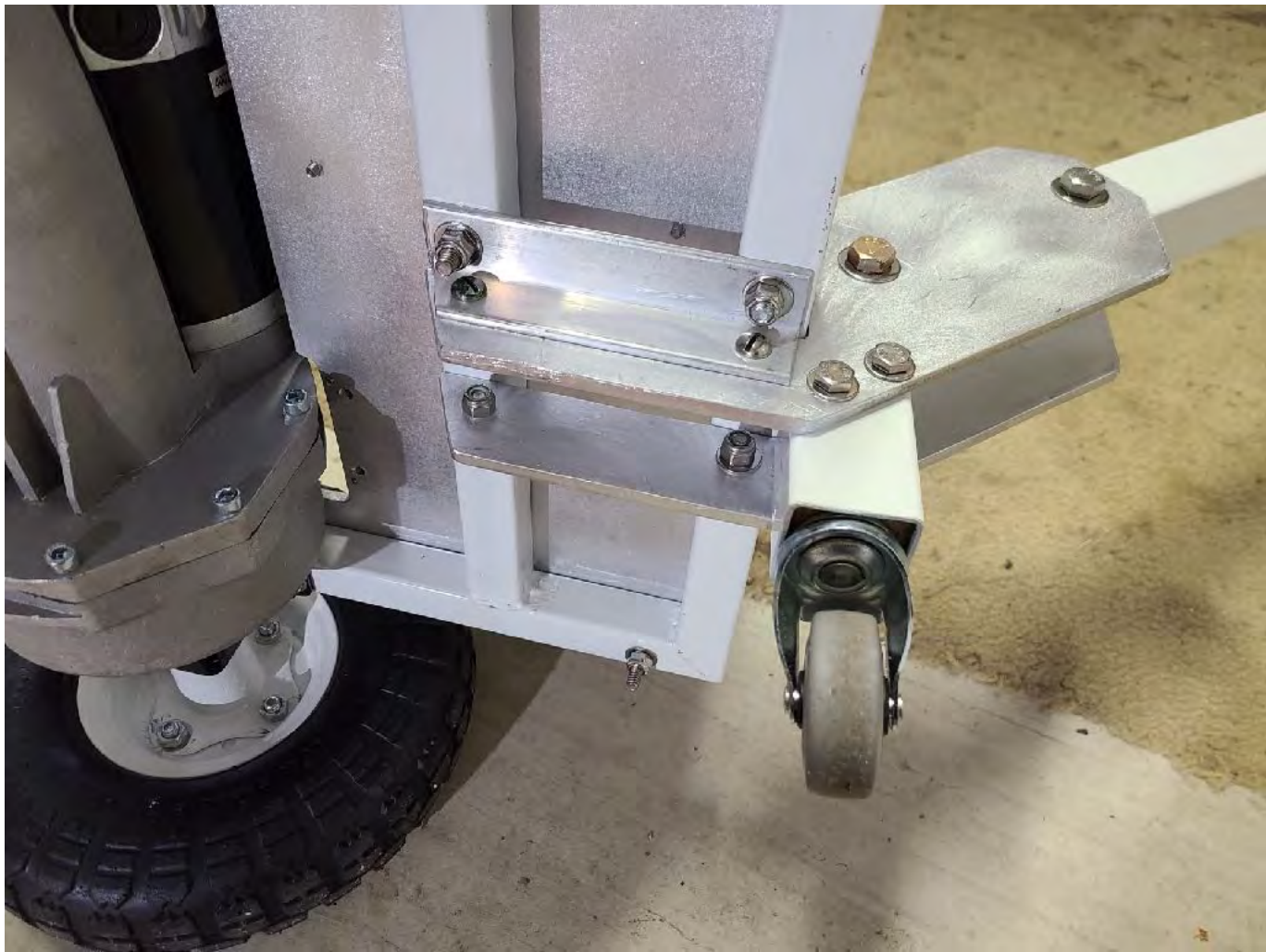
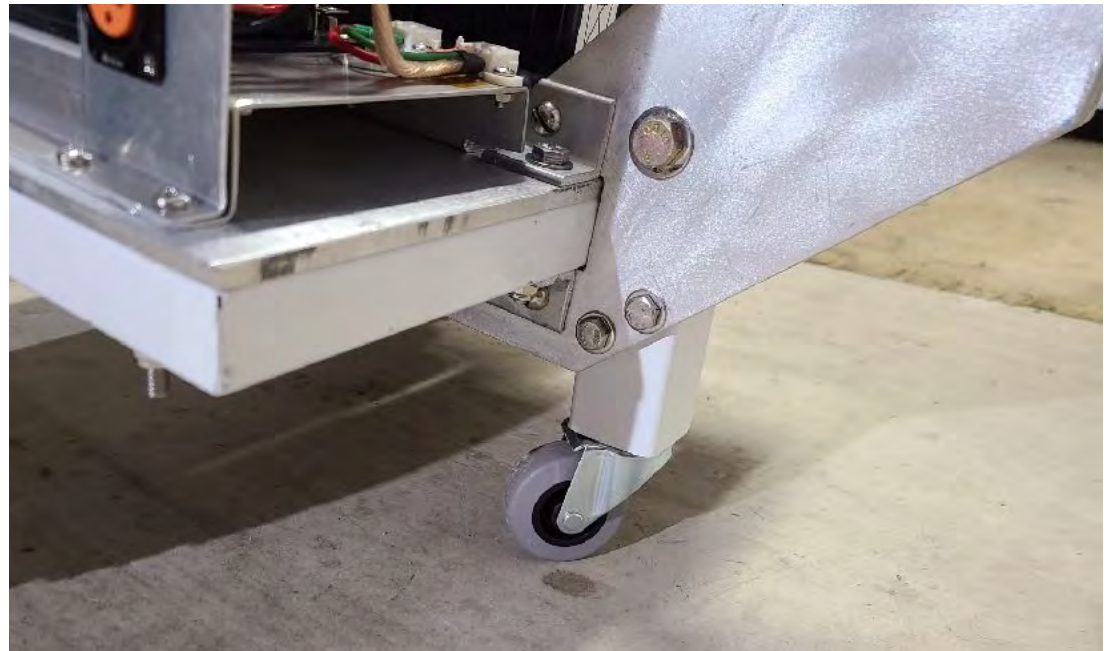


Figure 12: Handle and foot mounting



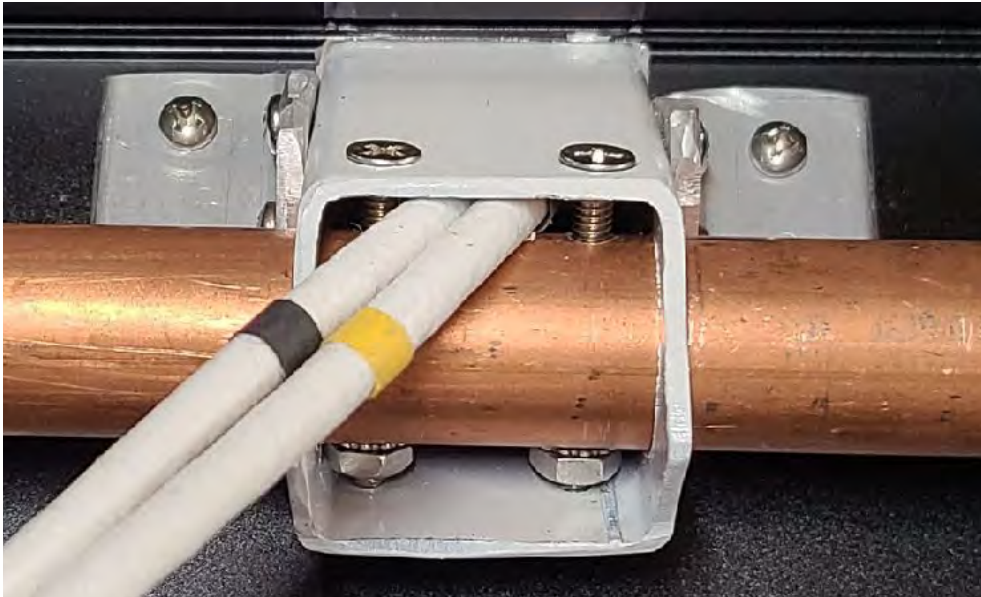
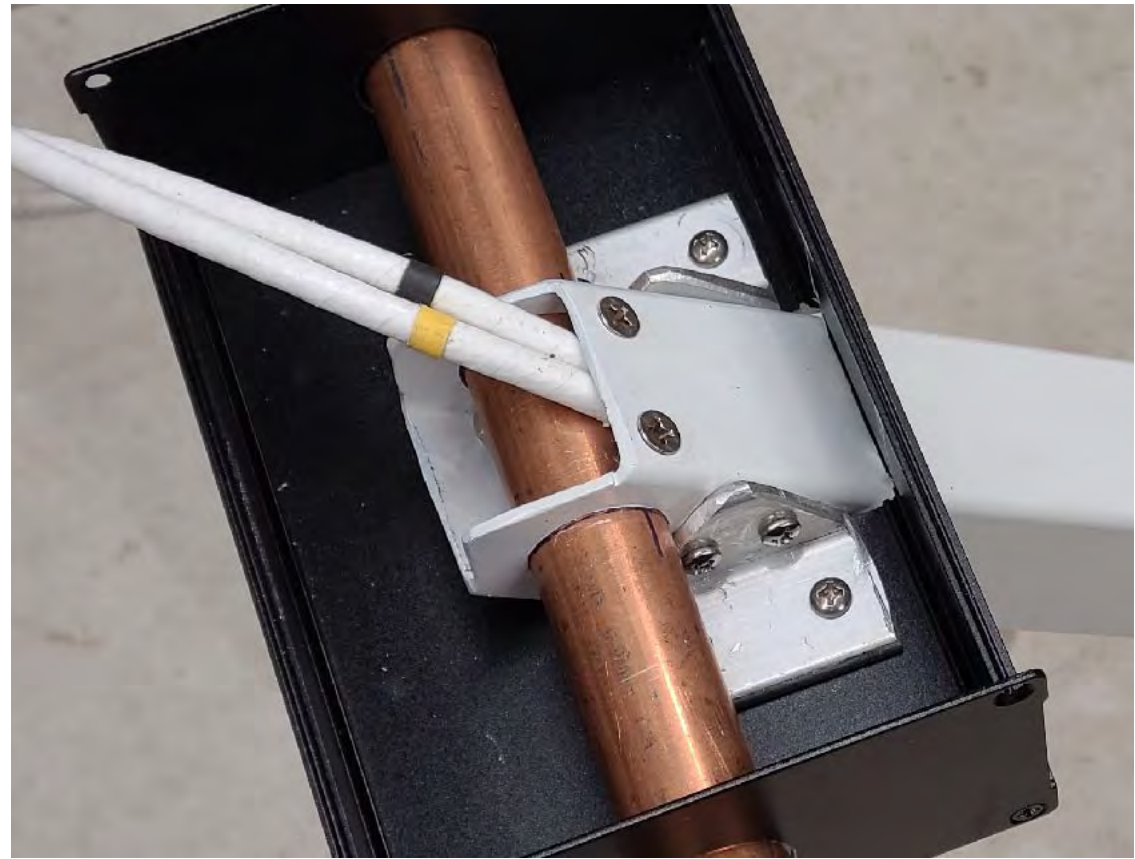


Figure 13: Handle Mounting Inside Control Box

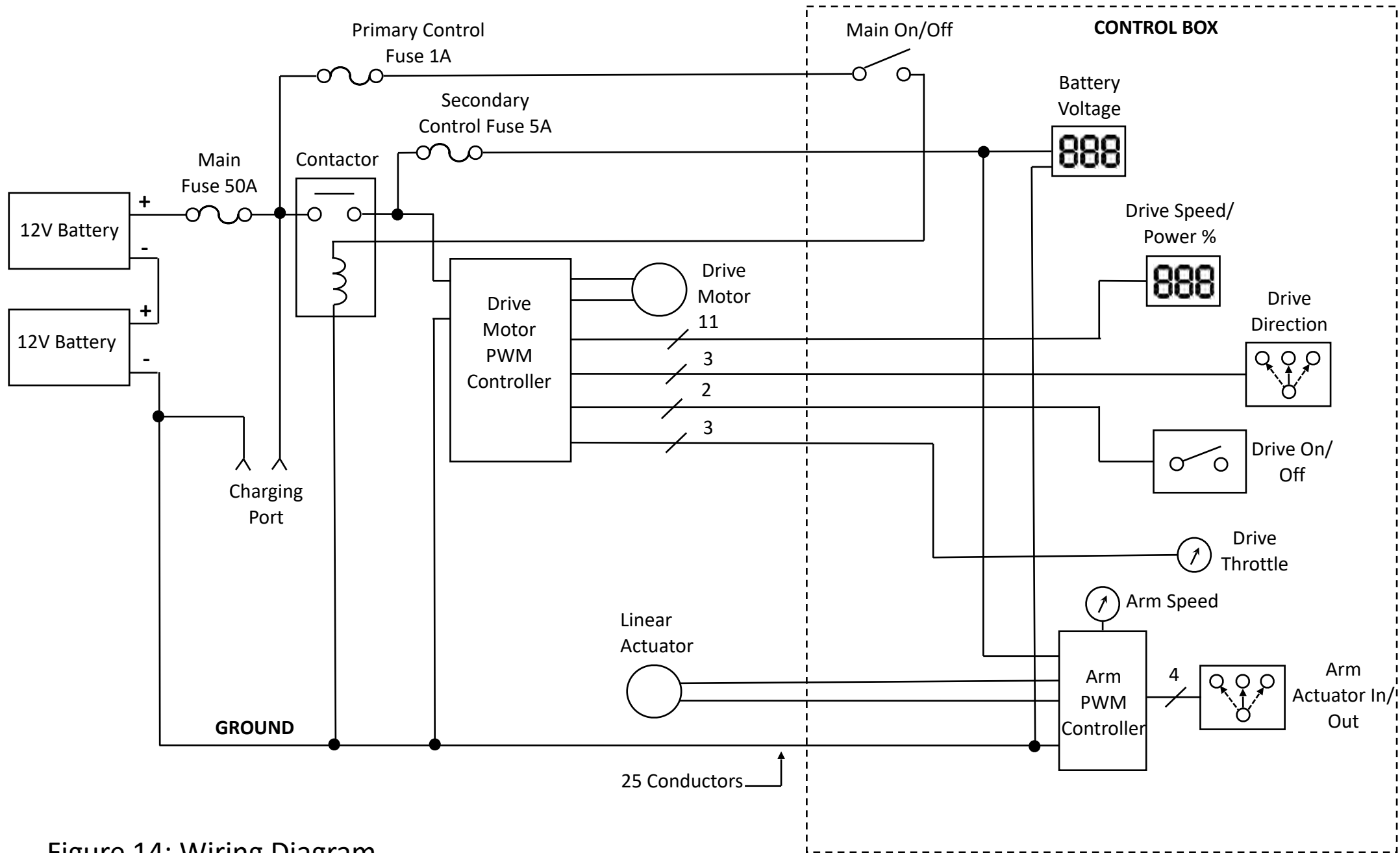
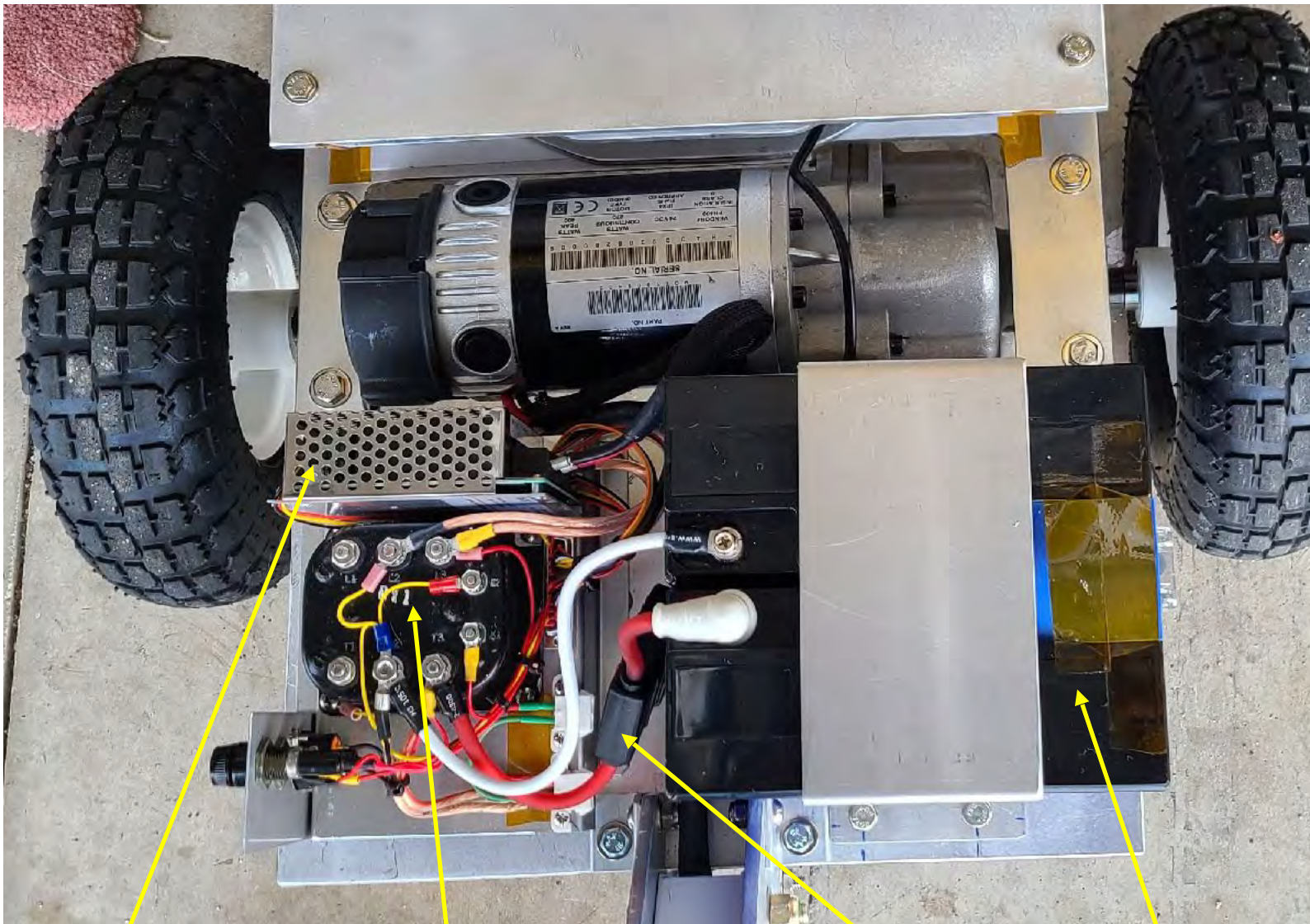


Figure 14: Wiring Diagram

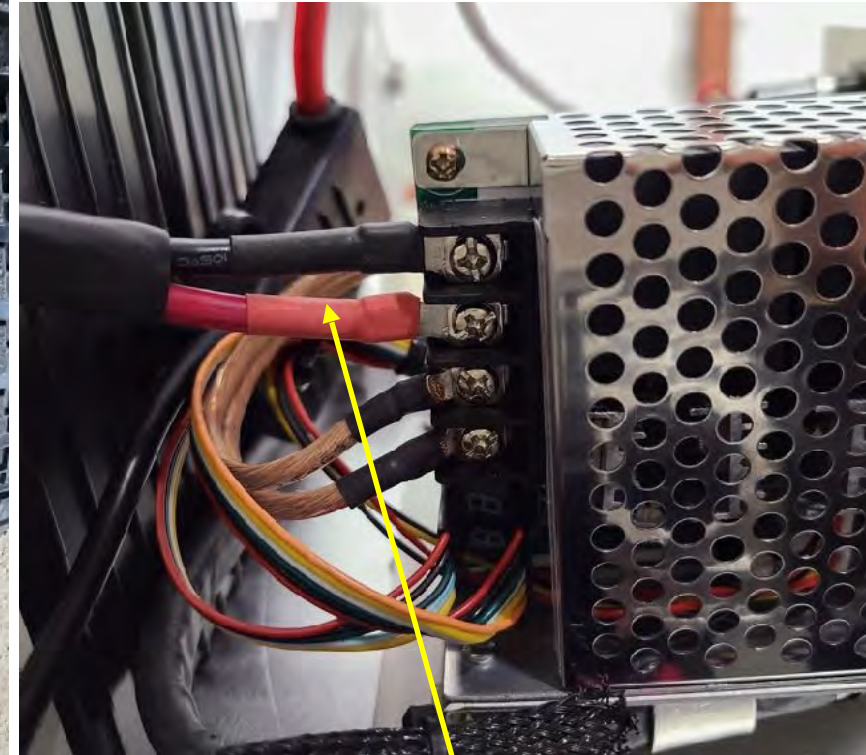


PWM Motor  
Controller

Power  
relay/contactor

In line fuse holder

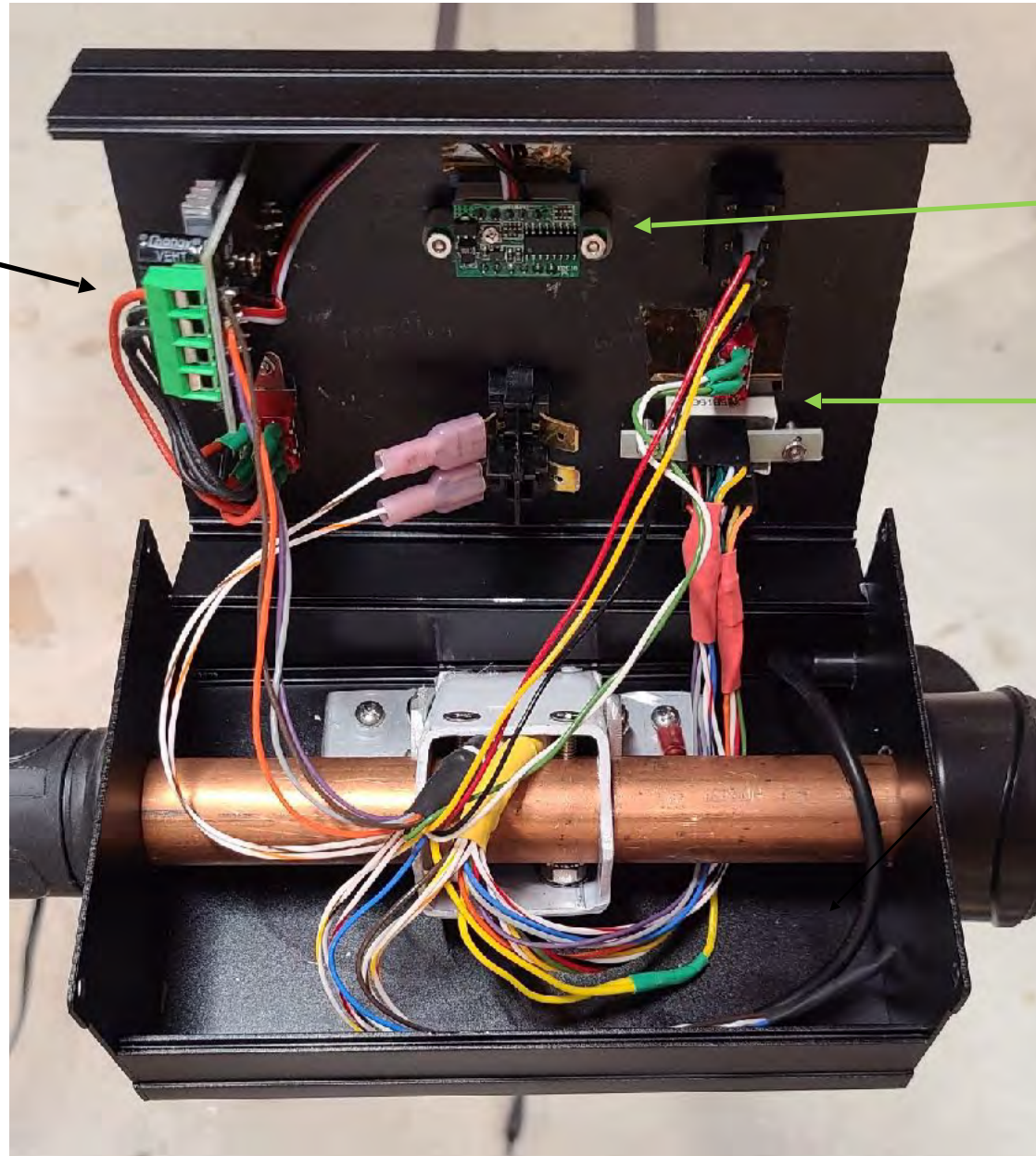
Batteries



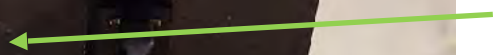
Motor connection at  
PWM controller

Figure 15: PWM Controller, Relay/Contactor, Battery Mounting

PWM Motor Driver  
for Linear actuator



Battery Voltage Display



% Speed/Power Display

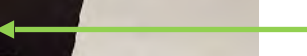


Figure 16: Control Box



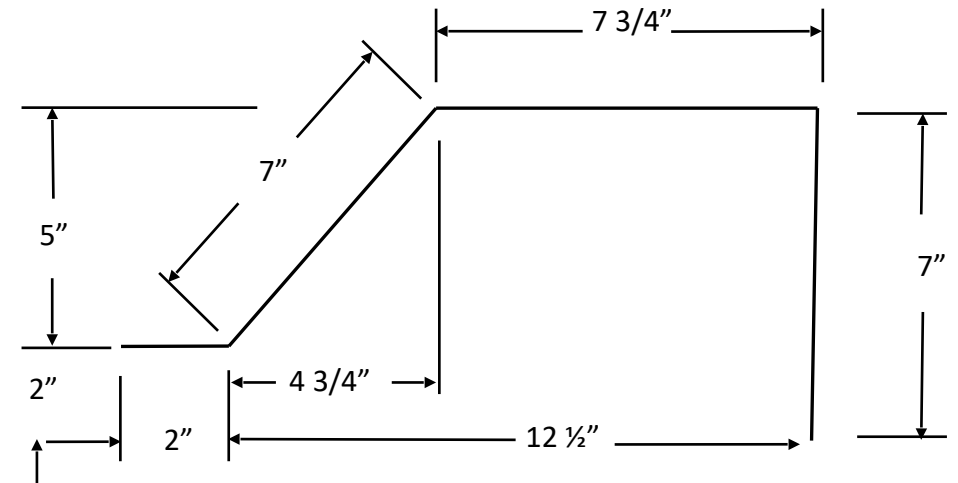


Figure 17: Optional Cover – All dimensions to inside corners of bent acrylic