**Control Box Instructions**

| Step | Action | |
| --- | --- | --- |
| SU |  | |
| 1 | Assembly of the box begins with placing magnets in the base plate.  Note: magnets will need to be pushed in securely to the part see the holes. |  |
| Step | Action | |
| SU |  | |
| 2 | First start with the bottom and side panels shown in the assembly. | A black and orange plastic object  Description automatically generated |
| 3 | Add the front plate to the ventilation and the base plate. | A black box with a hole in the middle  Description automatically generated |
| Step | Action | |
| SU |  | |
| 4 | Add top plate to the top of the three plates and securely place into the orientation shown. | A black rectangular object with a hole  Description automatically generated |
| 5 | Add the sliding plate with all installed electronics.  \*Note see electrical installation and assembly instructions. | A black rectangular object with a light inside  Description automatically generated |
| Step | Action | |
| SU |  | |
| 6 | add the access plate by sliding plate into place. | A black and orange rectangular object  Description automatically generated |

**Inverted Pendulum Instructions**

| Step | Action | |
| --- | --- | --- |
| SU |  | |
| 1 | Assembly of the pendulum starts with the base plate and the door being lined up as seen in image. | A black cylindrical object with a hole  Description automatically generated |
| 2 | the user should add the rod which enables the door to swing open as seen in picture. | A black object on a white surface  Description automatically generated |
| Step | Action | |
| SU |  | |
| 3 | the slip ring is attached to the top plate.  \*note: bottom should be tightened with scerws on bottom. | A round black object with wires  Description automatically generated |
| 4 | the motor should be screwed into its correct place as shown. | A black round object with wires  Description automatically generated |
| Step | Action | |
| SU |  | |
| 5 | add the coupler and rod to the motors shaft, along with the encoder. | A black round object with wires  Description automatically generated |
| 6 | add the top plate aligning them with the holes the slipring and the pins | A black cylinder with a square object on top  Description automatically generated |
| Step | Action | |
| SU |  | |
| 7 | add the rod and coupler together. | A black cylinder with a small metal rod  Description automatically generated |
| 8 | add the pendulum to the rod and push to the base and screw tight.  \*Note: you may add the rubber pads to the bottom base of the pendulum if user wants. | A black cylinder with a screwdriver  Description automatically generated |