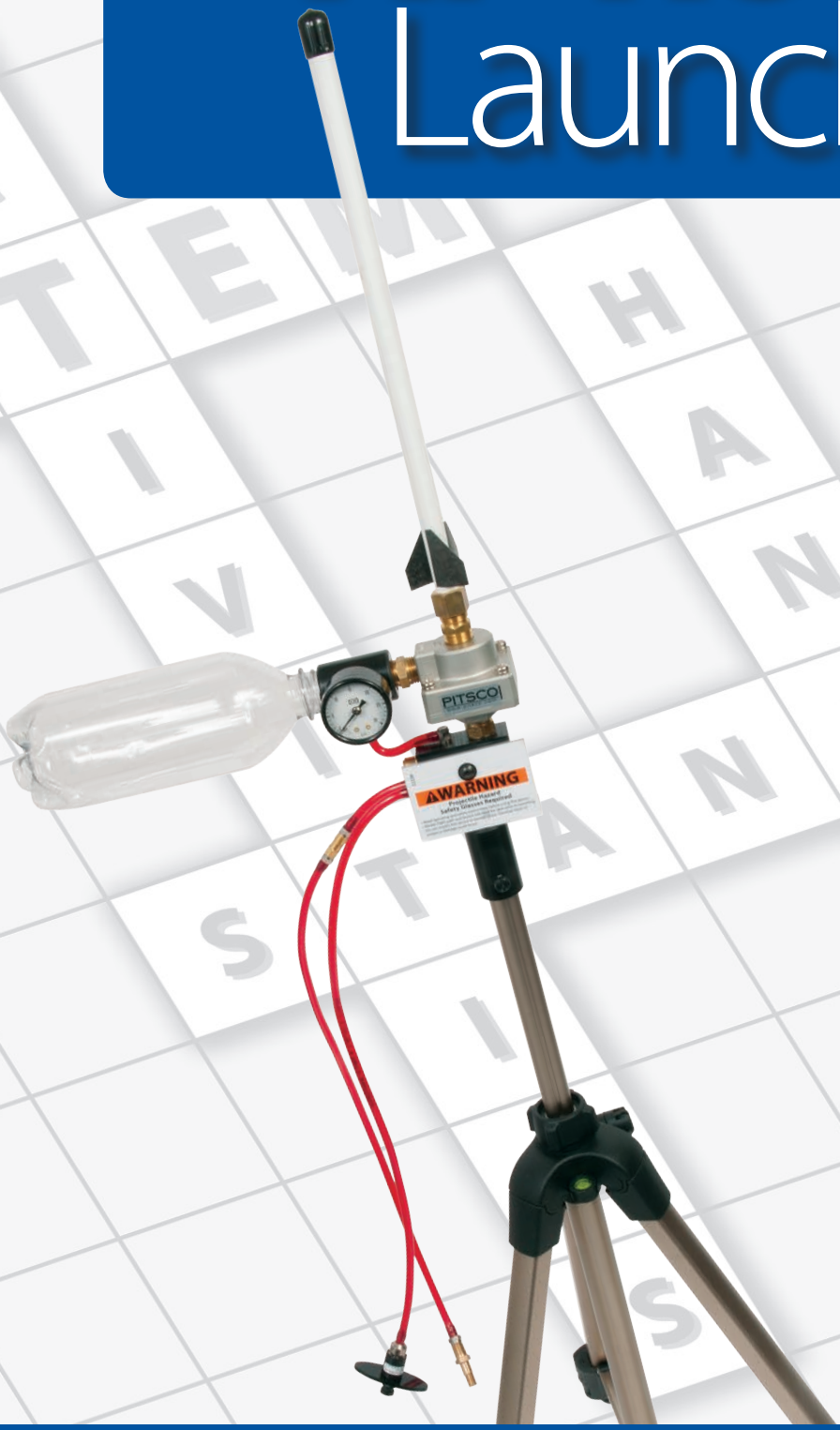
AP Rocket Launcher II

User Guide



PITSCO EDUCATION

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Cautionary and Warning Statements

- This kit is designed and intended for educational purposes only.
- Use only under the direct supervision of an adult who has read and understood the instructions provided in this user guide.
- Read warnings on packaging and in manual carefully.
- Never launch at people.
- Make sure launch site and flight path are clear of all people prior to launch.
- Never attach sharp objects to this product.
- Safety glasses required.

Introduction

Compressed air in a bottle turns into a powerful way to launch tube rockets with Pitsco's AP Rocket Launcher II.

Perched on a tripod, the launcher collects air from a hand pump in a plastic bottle. Press the launch button and the air blasts out of the tube where the rocket awaits its ride. Capable of launching 100 feet straight up – and much farther if launched at an angle – the AP Rocket Launcher II is a powerful and consistent tool for supervised aerospace activities.

Using this tool, you can cover many math and science concepts including trajectory, velocity, aerodynamics, pneumatics, force, and motion.

Liability

Pitsco, Inc. will not be liable for any personal or property damage resulting from the improper use of the AP Rocket Launcher II or from deliberate tampering with the device to obtain pressures above 20 psi.

Materials Included

- Rocket launcher unit
- Tripod

Items Required (not included)

- Hand pump
- Tube rocket(s)*
- Safety glasses or goggles for everyone near the launch site

* We recommend the AP Rocket Class Pack (33515) for building rockets for the AP Rocket Launcher II. However, Estes or other rocket kits using the BT-5 body tube can be launched using the AP Rocket Launcher II. Please note that the rockets' parachutes will not deploy during the flight.

Setting Up the Launcher

1. Set up the tripod to your desired height. Pitsco recommends at least four feet or higher above the ground to avoid accidentally hitting someone near the launch site.

Figure 1

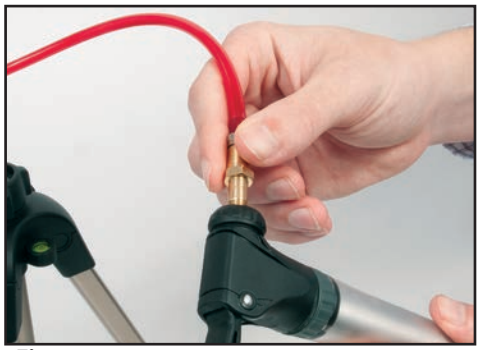
Figure 2

2. Remove the thumbscrew from the bottom of the launcher and attach the launcher to the metal shaft at the top of the tripod (use the crank to raise and lower the metal shaft). With the holes on the bottom of the launcher and top of the tripod lined up, fasten the thumbscrew into the hole (Figure 1).
3. Attach the hand pump to the end of the hose hanging from the back of the launcher (Figure 2). You are now ready to launch.

Operating the Launcher

1. Place the rocket on the end of the rocket launcher unit's metal tube (Figure 3).


Figure 3

2. Use the hand pump to pressurize the bottle while watching the pressure gauge (Figure 4). **Caution:** Be careful to use the correct amount of pressure for the launch location. If you are launching in a gym, we do not recommend more than 5 psi. A higher pressure is appropriate for outdoor areas with plenty of clear space around the launch site, such as a sports field, empty parking lot, or empty playground. The launch area should be clear of trees, buildings, and onlookers.
3. Set the launch angle by tilting at the "WARNING" plate.
4. Press the launch button and watch your rocket fly.

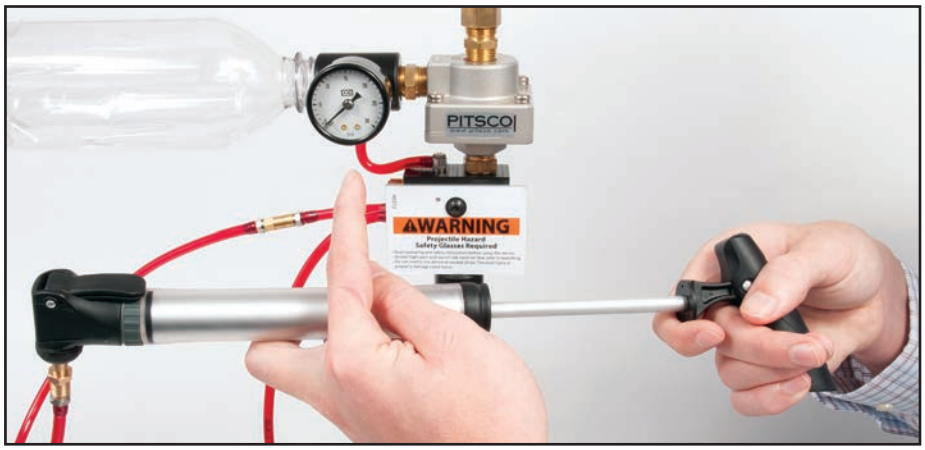

Figure 4

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