

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

› [Estes](#) /

› [Estes 2483 Phantom Blue Model Rocket Kit Instruction Manual](#)

Estes 2483



Estes 2483 Phantom Blue Model Rocket Kit Instruction Manual

For Ages 10+ (Adult Supervision Recommended for Ages Under 12)

1. INTRODUCTION

This instruction manual provides detailed guidance for the assembly, preparation, and safe launch of your Estes 2483 Phantom Blue Model Rocket Kit. Designed for beginner rocketeers, this kit offers an engaging experience in model rocket construction and flight. Please read all instructions carefully before beginning assembly or attempting a launch.

2. WHAT'S INCLUDED IN YOUR KIT

Your Estes 2483 Phantom Blue Model Rocket Kit includes the following components:

- Phantom Blue rocket kit parts (nose cone, body tube, precolored plastic fins)
- Recovery parachute
- Instructions and design decals



Figure 2.1: Included components of the Phantom Blue kit.

3. ADDITIONAL ITEMS REQUIRED (SOLD SEPARATELY)

To build and launch your Phantom Blue rocket, you will need the following items, which are not included in this kit:

For Assembly:

- Scissors
- Fine sandpaper
- Masking tape
- Plastic cement

For Launch:

- Estes model rocket engines (compatible types: A8-3, B4-4, B6-4, C6-5, C6-7)
- Estes Starters
- Estes Recovery Wadding
- Estes Porta Pad II Launch Pad
- Estes Electron Beam Launch Controller
- 4 high-quality 1.5-volt AA alkaline batteries (for launch controller)



WHAT'S INCLUDED

- ★ Phantom Blue rocket kit
- ★ Precolored parts
- ★ Parachute



Length
19.4" (49.3 cm)



Diameter
0.98" (25 mm)



Weight
1.4 oz. (39.7 g)

1-hour assembly time (not including dry time)

Figure 3.1: Essential tools and materials for building and launching.

4. ASSEMBLY INSTRUCTIONS

The Estes 2483 Phantom Blue rocket is designed for easy assembly, typically taking approximately 1 hour. Follow the step-by-step instructions provided in your kit packaging. Key steps include:

1. **Prepare Body Tube:** Ensure the body tube is smooth and free of debris.
2. **Attach Fins:** Securely attach the precolored plastic fins to the body tube using plastic cement. Ensure proper alignment for stable flight.
3. **Assemble Nose Cone and Recovery System:** Attach the recovery parachute to the nose cone and shock cord. Connect the shock cord to the inside of the body tube.
4. **Apply Decals:** Once the rocket is fully assembled and dry, apply the provided decals according to the design.



Figure 4.1: Assembly of the rocket fins.

5. PRE-LAUNCH PREPARATION

Proper preparation is crucial for a successful and safe launch. Always perform a pre-launch check.

5.1 Engine Selection

Estes model rocket engines are assigned a letter indicating their power level. 'A' engines are the lowest power and are generally recommended for beginner rockets. The Phantom Blue is compatible with A8-3, B4-4, B6-4, C6-5, and C6-7 engines. Refer to the specific engine instructions for proper installation.

5.2 Recovery Wadding

Recovery wadding is inserted into the body tube above the engine to protect the parachute from the hot ejection charge. Always use fresh recovery wadding for each flight.

5.3 Launch System Setup

Set up your Estes Porta Pad II Launch Pad and Electron Beam Launch Controller according to their respective instructions. Ensure the launch pad is stable and the launch rod is securely in place. The launch controller requires 4 AA batteries.



Figure 5.1: Estes Porta-Pad II Launch Pad.



Figure 5.2: Estes Electron Beam Launch Controller.

Your browser does not support the video tag.

Video 5.1: Introduction to Modern Rocketry by Estes Bot. This video provides an overview of rocket components, engine selection, and the purpose of recovery wadding and launch systems.

6. LAUNCHING YOUR ROCKET

Once your rocket is prepared and the launch system is set up in an appropriate launch area, you are ready to launch.

1. **Place Rocket:** Carefully place your rocket onto the launch rod.
2. **Connect Starter:** Connect the clips from the launch controller's lead cable to the wires on the engine starter.
3. **Clear Area:** Ensure all spectators are at least 15 feet away from the launch pad.
4. **Insert Safety Key:** Insert the safety key into the launch controller.
5. **Countdown:** Initiate a clear countdown (e.g., "5, 4, 3, 2, 1, LAUNCH!").
6. **Press Button:** Press and hold the launch button until the rocket ignites and lifts off.




TECHNICAL SPECS

 Recommended Engines A8-3, B4-4, B6-4, C6-5, C6-7	 Projected Max Altitude 1,150' (351 m)
 Launch System Porta-Pad II	 Recovery System 12" (30.5 cm) Parachute
	 Fin Material Molded Plastic

Figure 6.1: Model rocket flight sequence.



Figure 6.2: Phantom Blue rocket during launch.

7. RECOVERY

After reaching its peak altitude, the engine's ejection charge will deploy the parachute, allowing the rocket to descend safely for recovery and reuse. Observe the rocket's descent and retrieve it carefully.



Figure 7.1: Phantom Blue rocket under parachute recovery.

8. SAFETY GUIDELINES

Always adhere to the National Association of Rocketry (NAR) Model Rocket Safety Code for safe operation. Key safety points include:

- **Launch Site:** Choose a large, open area free of obstructions, dry weeds, brown grass, or highly flammable materials.
- **Weather Conditions:** Launch only during calm weather with little or no wind and good visibility.
- **Safe Distance:** Maintain a safe distance of at least 15 feet from the launch pad during countdown and launch.
- **Adult Supervision:** Children under 12 years of age should always be supervised by an adult.
- **Engine Use:** Use only Estes-approved model rocket engines and starters.



Figure 8.1: Recommended launch site dimensions.

9. SPECIFICATIONS

Feature	Detail
Model Number	2483

Product Name	Phantom Blue
Length	19.4 inches (49.3 cm)
Diameter	0.98 inches (25 mm)
Weight	1.4 ounces (39.7 g)
Projected Max Altitude	1,150 feet (351 m) with C6-7 engine
Recommended Engines	A8-3, B4-4, B6-4, C6-5, C6-7
Launch System	Estes Porta Pad II
Recovery System	12 inch (30.5 cm) Parachute
Fin Material	Molded Plastic
Assembly Time	Approx. 1 hour

10. WARRANTY AND SUPPORT

Estes products are manufactured to high-quality standards. For warranty information or technical support, please refer to the contact details provided on the product packaging or visit the official Estes website. Keep your purchase receipt for warranty claims.