

Estes 2262

Estes Parachute 6 Model Kit (Model 2262) Instruction Manual

For safe and effective model rocket recovery

1. INTRODUCTION

This manual provides essential instructions for the proper use and maintenance of your Estes Parachute 6 Model Kit (Model 2262). This parachute is designed as a recovery device for model rockets, ensuring a safe descent after flight. Adherence to these instructions is crucial for optimal performance and safety.

2. PRODUCT OVERVIEW

The Estes Parachute 6 is a pre-assembled recovery parachute specifically designed for model rockets requiring a smaller recovery system. Its primary function is to slow the descent of the rocket after the ejection charge, allowing for a gentle landing and preventing damage to the model.

- **Replacement 6-inch parachute:** Ideal for replacing damaged parachutes or for new rocket builds.
- **Pre-assembled:** Ready for immediate use, reducing preparation time.
- **Suitable for smaller rockets:** Designed for model rockets that require a compact recovery parachute.

3. WHAT'S IN THE BOX

Your Estes Parachute 6 Model Kit contains the following item:

- One (1) Estes Rockets 2262 6" Rocket Parachute

4. INSTALLATION AND SETUP

Proper installation of the parachute and recovery wadding is critical for successful rocket recovery. Follow these steps to prepare your parachute for flight:

1. **Attach the Shock Cord:** Ensure the parachute's shroud lines are securely attached to the shock cord of your model rocket. The shock cord connects the nose cone and parachute to the main body of the rocket.
2. **Prepare Recovery Wadding:** Before inserting the parachute, recovery wadding must be placed into

the rocket body tube. The wadding protects the parachute from the hot ejection charge that deploys the recovery system. Use 2-3 squares of Estes recovery wadding (Item 2274) for most small rockets.

3. **Insert Wadding:** Loosely crumple the recovery wadding and insert it into the rocket body tube, pushing it down gently until it rests just above the engine mount.
4. **Fold the Parachute:** Carefully fold the parachute. Avoid tight creases that could prevent proper deployment. A common method is to fold it into quarters lengthwise, then roll it loosely.
5. **Insert Parachute:** Gently push the folded parachute into the body tube above the recovery wadding. Ensure the shock cord is not tangled and is positioned to allow the nose cone to be inserted last.
6. **Insert Nose Cone:** Place the nose cone firmly into the body tube, ensuring it is snug but not overly tight, as it needs to be ejected by the recovery charge.

For a visual guide on preparing your rocket for launch, including recovery wadding and parachute insertion, please refer to the video below:

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Video Description: This video, titled "Estes Rocket Launch Sets by Estes Info Bot," provides a general overview of preparing Estes model rockets for launch. It covers various aspects including selecting rockets, understanding engine power levels, and crucially, demonstrates the proper insertion of recovery wadding and the parachute into the rocket body to protect the recovery system during ejection. It also shows the use of launch pads and controllers for a safe launch sequence.

5. OPERATION (RECOVERY SYSTEM)

During a model rocket flight, the Estes Parachute 6 plays a vital role in the recovery sequence:

- **Ejection:** At the peak of the rocket's flight (apogee), a small ejection charge within the engine ignites. This charge expels the nose cone, shock cord, recovery wadding, and the parachute from the body tube.
- **Deployment:** As the parachute is ejected, it catches air and unfurls, creating drag.
- **Descent:** The deployed parachute significantly slows the rocket's descent, allowing it to return to the ground gently and safely, minimizing the risk of damage.

Always ensure your launch area is clear of obstacles and that wind conditions are suitable for safe recovery. High winds can carry rockets far from the launch site.

6. MAINTENANCE AND CARE

To ensure the longevity and reliable performance of your Estes Parachute 6, follow these maintenance guidelines:

- **Inspection:** Before each flight, carefully inspect the parachute for any tears, holes, or frayed shroud lines. A damaged parachute may not deploy correctly.
- **Cleaning:** If the parachute becomes dirty, gently wipe it with a damp cloth. Avoid harsh chemicals. Ensure it is completely dry before folding and storing.
- **Storage:** Store the parachute unfolded or loosely folded in a cool, dry place away from direct sunlight and extreme temperatures. This prevents permanent creases and material degradation.
- **Replacement:** Replace the parachute if it shows significant signs of wear, tear, or damage that could compromise its deployment or effectiveness.

7. SAFETY GUIDELINES

Model rocket activities require adherence to safety protocols. Always follow the safety code provided with your model rocket kit and observe these general guidelines:

- **Launch Area:** Launch rockets in a large, open field, clear of dry grass, buildings, and power lines.
- **Wind Conditions:** Do not launch in high winds that could carry your rocket into unsafe areas.
- **Recovery Wadding:** Always use fresh recovery wadding for each flight to protect the parachute from the ejection gases.
- **Spectator Distance:** Ensure all spectators are at a safe distance from the launch pad.
- **Adult Supervision:** Minors should always be supervised by an adult during model rocket activities.

8. SPECIFICATIONS

Product Name:	Estes Parachute 6 Model Kit
Model Number:	2262
Product Dimensions:	0.02 x 0.02 x 6 inches (when packaged)
Item Weight:	0.01 ounces
Manufacturer:	Estes
Recommended Age:	10 - 16 years (with adult supervision)

9. TROUBLESHOOTING

If you encounter issues with your parachute recovery system, consider the following:

- **Parachute Fails to Deploy:**
 - Ensure sufficient recovery wadding was used to protect the parachute from the ejection charge.
 - Check if the parachute was packed too tightly, preventing it from unfurling.
 - Inspect the engine for proper ejection charge function.
 - Verify the shock cord is not tangled or binding the parachute.
- **Parachute is Damaged During Ejection:**
 - This often indicates insufficient recovery wadding. Always use fresh wadding.
 - Ensure the wadding is properly inserted to create a barrier between the engine and the parachute.
- **Rocket Drifts Too Far:**
 - This is typically due to strong wind conditions. Avoid launching in windy weather.
 - Consider using a streamer for recovery in very windy conditions, if appropriate for your rocket model, as streamers cause a faster descent.

10. WARRANTY AND SUPPORT

For specific warranty information or technical support regarding your Estes products, please refer to the official Estes website or contact their customer service directly. Keep your purchase receipt as proof of purchase.

Manufacturer: Estes

Website: www.estesrockets.com

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