**VAPORE™**

**ESTES®**

EstesRockets.com

One rocket — two looks! Decals included for both!

**MODEL ROCKET INSTRUCTIONS**

**KEEP FOR FUTURE REFERENCE**

**IMPORTANT:** Please record date found on decal and keep for future reference.

**READ ALL INSTRUCTIONS.** Make sure you have all parts and supplies. Test fit all parts before applying glue.

**SUPPLIES**

- Scissors
- Pencil
- Ruler
- Fine sandpaper
- Epoxy
- Carpenter's glue
- Plastic cement
- Hobby knife
- Masking tape
- Clear tape
- Primer (white)
- Paint (black)
- Paint (yellow or purple)
- Sand block

090051-7294
Laser cut balsa sheet

090052-7294
Laser cut centering rings

034997
Yellow spacer tool

072417
Engine retainer set

030164-2
Green engine block

030463
Engine mount tube

035005
Orange E to D engine spacer

035002
Parachute

036396
Body tube (top)

031777
Red tube coupler

036396
Body tube (bottom)

072305
Nose cone

090001-7294
Waterslide decal
ASSEMBLE ENGINE MOUNT

1. Measure and mark A.

2. Measure and mark M (yellow spacer tool). Use M (yellow spacer tool) to insert B (green engine block) into position.

3. Insert M to mark.

4. Quickly remove A.

5. C

6. A

7. LET DRY

BLUE FILLETS

SIDE VIEW OF ENGINE MOUNT

MARK TUBE

1. Masking tape.

2. D

3. C

4. Remove guide. Use door frame to extend all lines.
INSERT ENGINE MOUNT

1. Insert the engine mount.
2. Apply glue inside D. Insert the engine mount.
3. Apply ring of glue to inside of D where D and C meet.

PREPARE AND ATTACH FINS

1. Sand both sides.
2. 
3. Round leading edge.
4. 
5. Repeat for remaining fins.
6. Check alignment and then let dry.

X3
INSTALL LAUNCH LUGS AND UPPER BODY TUBE

1. Cut F in half.
2. 
3. Mark middle of G. Insert to mark and let dry.
4. 
5. APPLY GLUE FILLETS TO ALL JOINTS AND LET DRY

INSTALL SHOCK CORD

1. 
2. 
3. 
4. Hold until set.
5. Apply glue to shock cord mount.
6. Glue shock cord mount to the inside of D.
7. 1 1/2" (3.8 cm)
Use finger to hold until glue sets.

ROCKET FINISHING — ONE ROCKET WITH TWO LOOKS

1. Spray rocket with white primer, let dry, and sand. Repeat until rocket is smooth, then paint. Apply decals only after paint is dry.
2. Cut decals from sheet, trimming close to edge.
3. One at a time, place in warm water until decal curls and begins to relax.
4. Remove and position on rocket, sliding decal away from backing material.
5. Let set overnight.
6. OPTIONAL: Apply protective clear coat.

NOTE:
Cut from page 1.
ATTACH PARACHUTE

1. Push recovery wadding down towards end of body tube.

2. Tie 8-9 squares of ESTES RECOVERY Wadding.

3. Double knot.

NOTE:
Recovery wadding and parachute must slide easily into body tube. If too tight, redo.

PREPARE RECOVERY SYSTEM

INSTALL ENGINE RETAINER

1. Rough up inside surface of K with sandpaper.

2. Let dry.

3. K

4. L

PREPARE ENGINE

1. Use 1 each.

2. Plug

3. Starter

4. TIP MUST TOUCH PROPELLANT!

NOTE:
If you are using a D engine, insert orange spacer, then engine.

N 03005
COUNTDOWN AND LAUNCH

NOTE:
Key always out until final countdown!

1. Masking tape

2. 4 in. (10.2 cm)

3. Re-cap rod.

4. Insert key, push down hard. Bulb will light.

5. Fully extend your launch controller wire before launching.

6. Estimated weight: 3.5 oz. (99.2 g)

7. May also be launched from the 9215 Estes Porta-Part II Launch Pad.

8. While holding key down FIRMLY, press launch button until LIFTOFF!

9. WARNING: FLAMMABLE
To avoid serious injury, read instructions & NAR Safety Code (enclosed) before using your prepared rocket. Do not use your prepared engine, remove the starter before starting your engine.

10. Pre-Launch Check: For safety, never launch a damaged rocket. Check the rocket's body, nose cone and fins. Also, check the engine mount, recovery system and launch lug(s).

Flying your rocket: Choose a large field (500 ft. [152 m] square) free of dry weeds and brown grass. The larger the launch area, the better your chance of recovering your rocket. Football fields and playgrounds are great. Launch only with little or no wind and good visibility. Always follow the National Association of Rocketry (NAR) SAFETY CODE (enclosed). Misfires: Take the key out of the controller. Wait one minute before going near the rocket! Disconnect the starter clips and remove the engine. Take the plug and starter out of the engine. If the starter has burned, it worked but did not ignite the engine because it was not touching the propellant inside the engine. Put a new starter all the way inside the engine without bending it. Push the plug in place. Repeat the steps under Countdown and Launch.
body tubes - bt60 2 @ 18 in
engine tube - bt50  x 4 in
nose cone is 8.5 in long
launch lug - 2 in x 3/16
shock cord - 50 in x 1/4 in
balsa 1/8 in
VAPOR™
FLYING MODEL ROCKET KIT

900 ft
274 m
On an E12-5 Engine

One rocket —
two looks!
Decals included for both!

Available in different configurations.

- E12-5 Engine
- E12-6 Engine

Specifications:
- Length: 45.2 in (114.3 cm)
- Diameter: 1.64 in (42 mm)
- Recovery: Parachute 18 in (45.7 cm)

QTY: 1

29700-0004-2-01

Visit our website for more details and accessories.

*Made in the USA*