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) CLEAR COAT (OPTIONAL) PAINT (METALLIC COPPER OR GOLD) SAND BLOCK

OLYMPUS

090051-7293 Laser cut balsa sheet

090052-7293 Laser cut centering rings

090001-7293 Waterslide decal

035005 Orange E to D engine spacer

034997 Yellow spacer tool

030463 Engine mount tube

030164-2 Green engine block

072417 Engine retainer set

046008 Body tube

038166 Launch lug

038363 Shock cord

030606 Clear payload section

030110 Nose cone

030110 Tube adapter

SHOCK CORD MOUNT

Make a copy if you want to keep instructions.
TUBE MARKING GUIDE

Make a copy if you want to keep instructions.

FIN LINE
FIN LINE
LAUNCH LUG
FIN LINE
FIN LINE

ASSEMBLE ENGINE MOUNT

1. Measure and mark O.
   3/8" (10 mm)
   O

2. Use O (yellow spacer tool) to insert (green engine block) into position.
   B
   3/8" (10 mm)

3. INSERT O TO MARK.

4. QUICKLY REMOVE

5. C
   3 3/8" (8.6 cm)
   1/2" (13 mm)
   C
   C

6. Measure and mark A.
   1/2" (13 mm)
   2" (5.1 cm)

7. C
   C

8. LET DRY
   GLUE FILLETS
   1/2" (13 mm)

SIDE VIEW OF ENGINE MOUNT

PREPARE FINS

1. Sand both sides.

2. E E E E F F E E

3. X4

4. X4
   LET DRY

5. ROUND LEADING EDGE
   X4
**MARK TUBE**

1. Masking tape.
2. Remove guide. Use door frame to extend all lines.

**NOTE:**
Cut from Page 2.

**INSERT ENGINE MOUNT AND ATTACH FINS**

1. Apply glue inside D. Insert the engine mount.
2. Apply ring of glue to inside of D, where D and C meet.
3. ENDS EVEN
4. Repeat for remaining fins.
5. TOP VIEW

**ATTACH LAUNCH LUG**

1. Apply glue to D. Attach G as shown.
2. APPLY GLUE FILLETS TO ALL JOINTS. LET DRY.
INSTALL SHOCK CORD

1. Install shock cord

2. Apply shock cord to rocket

3. Cut shock cord to length

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)

NOTE:
Cut from page 1.

ROCKET FINISHING

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. Blot with clean paper towel. Let set overnight.
6. OPTIONAL: Apply protective clear coat.

ASSEMBLE PAYLOAD SECTION

1. Use hobby knife to cut nose cone into 2 sections.

2. Use hobby knife to remove excess plastic from eyepiece.

NOTE:
Do not cut off eyelet.

ATTACH PARACHUTE

1. Attach parachute to rocket

2. Secure parachute

3. Double knot

NOTE:
Please refer to packaging for suggested paint scheme and/or decal placement.
PREPARE RECOVERY SYSTEM

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

6-9 SQUARES ESTES® RECOVERY WADDING

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

PREPARE PAYLOAD SECTION FOR LAUNCH

1. Remove I from J.

2. Insert and secure payload.

3. Reattach nose cone to payload section.

INSTALL ENGINE RETAINER

1. Rough up inside surface of K with sandpaper.

2. LET DRY

3. L

PREPARE ENGINE

1.

2. Use 1 each.

3. STARTER

4. TIP MUST TOUCH PROPELLANT!

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

NOTE:
Key always out until final countdown!

1. MASKING TAPE

2. 3. Insert key, push down hard. Bulb will light.

4. 3... 2... 1...

5. 6. While holding key down: FIRMLY press launch button until LIFTOFF!

7. NOTE:
Fully extend your launch controller wire before launching.

8. NOTE:
Estimated weight: 3.9 oz. (110.6 g)

9. NOTE:
May also be launched from the 2215 Estes Porta-Pad® II Launch Pad.

10. PRECAUTIONS

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). Repair any damage before launching the rocket.

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 micro 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.