MODEL ROCKET INSTRUCTIONS

KEEP FOR FUTURE REFERENCE

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

SUPPLIES

Read all instructions. Make sure you have all parts and supplies. Test fit all parts before applying glue. Product color and shape may vary.

Decal sheet

090051-0661A
Laser cut wood sheet
3/32” balsa

090051-0661B
Laser cut wood sheet
3/32” balsa

090052-0661
Laser cut card stock
AR-2060

072421/422
Engine retainer set

090036
Main body tube
BT-60 18” long

030396
Launch lug
3/16” x 2

030162-2
Green engine block
EB-1

030477
Engine mount tube
BT-20 3.5” long

035003
Yellow spacer tool
Spent 18mm casing

072665
Nose cone / Tail cone
SAME AS
2017 S.W.A.T.
2036 Super Vega
2045 Dark Star

033363
Shock cord
SC-1 18” long

074126
Parachute

15”
TUBE MARKING GUIDE & SHOCK CORD MOUNT

Make a copy if you want to keep instructions.

PREPARE NOSE CONE

1. 

2.  

3.  

NOTE: Do not cut off eyelet.

ASSEMBLE ENGINE MOUNT

1. Use scrap balsa to apply glue.

2. Use H (yellow spacer tool) to insert B (green engine block) into position.

3. Let dry.

4.  

5.  

6. Add glue fillets.

MARK TUBE

1. TAPE

2.  

3. DOOR FRAME

Remove guide. Use door frame to extend all lines. Mark lightly.
INSTALL ENGINE MOUNT

1. 3" (7.6 cm)

2. Use J to set the distance of engine mount assembly.

3. Insert J until it stops.

4. Remove J.

5. Let dry.

ATTACH FINS

1. ROUND EDGES

2. ROUND EDGES

3. Let dry.

4. 3" (7.6 cm)

5. Let dry.
ATTACH LAUNCH LUGS

1. Place the lugs on the rocket. 
2. Let dry.

ATTACH TAIL CONE AND ENGINE RETAINER

1. Attach the tail cone and engine retainer. 
2. Let dry.
4. Let dry.

ROCKET FINISHING

1. Spray rocket with white primer, let dry, and sand. Repeat until rocket is smooth, then paint. Apply decals 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.
INSTALL SHOCK CORD

1. Cut from page 2.

2. Hold until set.

3. Glue shock cord mount to the inside of D.

4. 2" (5.1 cm)

5. Apply glue to shock cord mount.

6. Use finger to hold until glue sets.

7. 2" (5.1 cm)

PREPARE RECOVERY SYSTEM

1. K

2. M

3. DOUBLE KNOT

4. L

5. Wrap lines loosely.

PREPARE FLIGHT RECOVERY

1. Push recovery wadding to bottom of body tube.

2. 7-8 SQUARES ESTES RECOVERY WADDING

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

4. Wrap lines loosely.

5. STARTER

6. PLUG

7. TIP MUST TOUCH PROPELLANT!

8. WARNING: FLAMMABLE

To avoid serious injury, read instructions & NAR Safety Code included with engines. PREPARE YOUR ENGINE ONLY WHEN YOU ARE OUTSIDE AT THE LAUNCH SITE PREPARING TO LAUNCH. If you do not use your prepared engine, remove the starter before storing your engine.
FLIGHT SEQUENCE

1. MASKING TAPE

NOTE:
Key always out until final countdown!

2. Fully extend your launch controller wire before launching.

3. KEY

4. 16.4 ft. (5 m)

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

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

7. 4...3...2...1...

8. ESTES® LAUNCH SUPPLIES NEEDED
(Sold Separately)
- 3/16" (5 mm) Maxi™ Launch Rod
- Launch Controller
- Recovery Wadding
- Starters (with engines)
- Plugs (with engines)
- Estes® Engines: B6-4 (first launch), C6-5

9. 3" (7.6 cm)

10. Estimated weight: 3.1 oz (87.8 g)

PRECAUTIONS

NAR SAFETY CODE

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 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.