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  YELLOW GLUE  EPOXY  HOBBY KNIFE  MASKING TAPE  PRIMER (WHITE)  PAINT (GLOW ORANGE, WHITE, BLACK)  CLEAR COAT (OPTIONAL)  FINE SANDPAPER  SAND BLOCK

F 090051-9720 X2 Laser-cut wood sheet

B/C 090052-9720 Laser-cut centering rings

K 038363 Shock cord

L 035810 Parachute

E 046010 Body tube

P 085705 Clay

G 038161 Launch lugs

D 031362 Green spacer

A 031360 Body tube

I 072412 Engine retainer

090001-9720A Waterslide decal

090001-9720B Chrome adhesive strip

H 072695 Nose cone

084445 Shock cord mount

PN 084445
PREPARE FINS

1. Sand both sides.

2. Use hobby knife to remove fins from wood sheet.

FULL SIZE FIN ALIGNMENT GUIDE
ASSEMBLE ENGINE MOUNT

1. Push D over H to enlarge diameter.

2. Slide B and D over A until D and A are even.

3. Apply glue to back side of B.

4. Slide C and D over A until they make contact with F.

5. Use F as a spacer to position C in correct place.

6. Remove F and glue C and D in place.

7. Apply glue bead around A as shown and attach B.

8. Apply glue fillets to both sides of B and C. Smooth with finger. Let dry.

Completed assembly
MARK BODY TUBE
1. Make a mark 1/2" (13 mm) from one of the fin slots in E.
2. Use door frame to extend line to end of tube.

INSTALL ENGINE MOUNT
1. Insert engine mount until ends of tubes are even.
   NOTE:
   Slots in C must align with slots in E.
2. Test fit F in slots of E. Slots in C must align with slots in E for proper fin alignment. Remove F.
3. Use dowel rod or similar tool to apply glue as indicated. Let dry.

ATTACH FINs
1. X4
2. Check fin alignment with alignment guide on page 2.
   Let dry.

ATTACH LAUNCH LUG
1. G
2. Let dry.
3. Apply glue fillets to all joints. Smooth with finger. Let dry.
ATTACH ENGINE RETAINER

1. Rough up inside surface with sandpaper.

2. Attach with epoxy. Mix and apply according to epoxy instructions. Let dry.

ATTACH SHOCK CORD

1. Cut J.

2. Insert K.

3. Glue J to the inside of E.

4. Hold until set.

5. Apply glue to J.

 INSTALL CLAY NOSE WEIGHT

1. Roll P into "snakes".

2. Insert "snakes" into H.

3. Use dowel rod, launch rod or similar tool to push P into tip of H.

 PREPARE NOSE CONE

1. Remove plastic from inside eyelet.

 ATTACH PARACHUTE AND SHOCK CORD

1. L

2. H

3. K

4. DOUBLE KNOT

 PREPARE FLIGHT RECOVERY

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

2. 8-10 SQUARES

3. ESTES®

4. RECOVERY WADDING

5. Wrap lines loosely.

NOTE:

Recovery wadding and parachute must slide easily into body tube. If too tight, redo.
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. Carefully peel chrome strips from backing and apply as indicated.
3. Cut decals from sheet, trimming close to edge.
4. One at a time, place in warm water until decal curls and begins to relax.
5. Remove and position on rocket, sliding decal away from backing material.
7. Optional: Apply protective clear coat.
8. Remove masking tape.

FREE WATERSLIDE DECAL OFFER!

Go to EstesRockets.com/9720decal
Fill out the form and we'll send you your free waterslide decal! While supplies last. Limit one offer per rocket purchased.
Design shown uses the black waterslide decals included and the free waterslide decals from offer.
PREPARE ENGINE RETENTION

1. Wrap 6 to 8 layers of masking tape over nozzle end of engine. Overlap end of engine by 1/4” (6 mm).

2. Trim off excess tape.

PREPARE ENGINE

1. ENGINE

2. STARTER
   PLUG
   Use 1 each.

3. TIP MUST TOUCH PROPELLANT!

4.

5.

6.

⚠️ WARNING: FLAMMABLE
To avoid serious injury, read instructions & NAR Safety Code included with engine. 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.
COUNTDOWN AND LAUNCH

NOTE:
Key always out until final countdown!

1. MASKING TAPE

2. 

3. 

4. 

5. 

6. KEY
   Insert key, bulb will light.

7. Press yellow button, alarm will sound.

8. 

9. Press red button while holding yellow button, rocket will launch.

10. 

11. 

NOTE:
Estimated weight: 10 oz. (283.5 g)

ESTES® LAUNCH SUPPLIES NEEDED
(Sold Separately)
• Porta Pad® E Launch Pad
• Pro Series II™ Launch Controller
• Recovery Wadding
• Starters (with engines)
• Plugs (with engines)
• Estes® Engines: E16-4, F15-4, F15-6

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 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. A burned starter means the starter tip was not touching engine propellant. Install a new starter; be sure the tip is touching propellant inside the engine. Push the plug in place. Repeat steps under Countdown and Launch.
.055” Thick
Whales Rule Maui Waters - December to May

1/8” Hard Balsa
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<th>Quantity</th>
<th>Description</th>
<th>Type</th>
<th>Number</th>
<th>Details1</th>
<th>Details2</th>
<th>Details3</th>
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<td>12&quot; long</td>
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