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

Read all instructions. Make sure you have all parts and supplies.

- 090001-1721 Self-stick decal
- 073219 Nose cone
- 073222 Fin X3
- 073220 Engine mount fin can unit (1 fin slot)
- 073224 Shock cord mount
- 073221 Engine mount fin can unit (2 fin slots)
- 073223 Engine retainer cap
- 030408 Body tube
- 038274 Streamer
- 038366 Shock cord
ASSEMBLE ENGINE MOUNT FIN CAN UNIT

1. Press fin can halves together.

ATTACH SHOCK CORD TO FIN CAN

1. Attach shock cord to shock cord mount with a double knot.
2. Insert into hole and rotate down.

ATTACH BODY TUBE TO FIN CAN

1. Feed the shock cord through body tube.
2. Align slots in body tube with tabs on fin can unit. Slide body tube over fin can unit until tabs on fin can match up with slots in body tube.
ATTACH FINS

1. Insert fin into slot.
2. Slide fin forward until it stops.
3. Screw engine retainer cap onto fin can unit.

X3
Repeat for remaining fins.

APPLY DECAL

ATTACH THE NOSE CONE AND STREAMER

1. Attach nose cone to shock cord with a double knot.
2. Tie the streamer to the shock cord.

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

PREPARE FLIGHT RECOVERY

1. Push recovery wadding down towards end of body tube.
2. 3” (7.6 cm)
3. 2-3 SQUARES ESTES® RECOVERY WADDING
4. NOTE:
Fold then roll.
ESTES® LAUNCH SUPPLIES NEEDED (Sold Separately)
• Launch Pad
• Launch Controller
• Recovery Wadding
• Starters (with engines)
• Plugs (with engines)
• Estes® Engines: 1/2A3-4T, A3-4T, A10-3T

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.

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.

PREPARE ENGINE
1. ENGINE
2. STARTER
3. PLUG
Use 1 each per engine.

4. TIP MUST TOUCH PROPELLANT!

COUNTDOWN AND LAUNCH

NOTE:
Key always out until final countdown!

1. MASKING TAPE
2. STARTER
3. PLUG

TIP MUST TOUCH PROPELLANT!

4. Fully extend your launch controller wire before launching.
5. 16.4 ft. (5 m)
6. Insert key, push down hard. Bulb will light.

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

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

8. MASKING TAPE
9. 3.
Use 1 each per engine.

10. STARTER
11. PLUG

PRECAUTIONS

NAR SAFETY CODE

Estimated weight: .73 oz. (20.7 g)

NOTE:
Key always out until final countdown!

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 (600 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. 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.

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