To avoid serious injury, read instructions & NAR Safety Code included with engines before proceeding. 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 igniter before storing your engine.

5. PREPARE ENGINE FOR FLIGHT

A. Separate igniter & igniter plug.
B. Slide engine into rocket body as shown.
C. Twist engine retainer ring into locked position to hold engine in place.
D. Drop in igniter as shown.
E. Insert igniter plug.
F. Firmly push igniter plug all the way in.
G. Gently bend igniter wires to form leads as shown.

IMPORTANT: Before each launch, check that the launch rod is smooth and straight - especially at the joint. Use sandpaper or steel wool to smooth joint and remove engine residue from rod. Gently straighten rod if bent.

NOTE: Please reference the Mini Launch Pad & Electron Beam® Launch Controller instructions included with this kit to properly assemble the launch pad and operate the controller.

COUNTDOWN AND LAUNCH

1... 2... 3... 4... 5...

MASKING TAPE

4" (10.2 cm)

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 (250 ft. [76 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.

MISFIRES

TAKE THE KEY OUT OF THE CONTROLLER, WAIT ONE MINUTE, BEFORE GOING NEAR THE ROCKET! Disconnect the igniter clips and remove the engine. Take the plug and igniter out of the engine. If the igniter has burned, it worked but did not ignite the engine because it was not touching the propellant inside the engine. Put a new igniter all the way inside the engine without bending it. Push the plug in place. Repeat the steps under Countdown and Launch.

PRECAUTIONS

NAR Safety Code

NO DRY GRASS OR WEEDS

ESTES LAUNCH SUPPLIES

(Sold Separately)
• Recovery Wadding (included with some engines)
• Igniters (with engines)
• Igniter Plugs (with engines)
• Recommended Engines: 1/4A3-3T, 1/2A3-4T, A3-4T, A10-3T

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FLYING MODEL ROCKET KIT INSTRUCTIONS
KEEP FOR FUTURE REFERENCE

ASSEMBLY TIP: Read all instructions before beginning work on your model. Make sure you have all parts and supplies.

TEST FIT ALL PARTS TOGETHER BEFORE APPLYING ANY GLUE!
If any parts don’t fit properly, sand as required for precision assembly.

SUPPLIES
In addition to the parts included in the kit you will also need:

- Ruler
- Fine Sandpaper (#400-600 Grit)
- Plastic Cement
- Masking Tape
- Steel Wool
- Double Knot

HELPFUL HINT: IF NOSE CONE FIT IS . . .
TOO TIGHT
ADD MASKING TAPE. SAND FOR FIT.
TOO LOOSE

PARTS
Locate the parts shown below and lay them out on the table in front of you.

DO NOT USE THIS DRAWING TO ASSEMBLE YOUR ROCKET.

1. ASSEMBLE NOSE CONE

A. Apply plastic cement to nose cone insert as shown.
B. Slide nose cone insert into nose cone. Wipe away excess cement. Let dry.

2. INSTALL SHOCK CORD

A. Tie a double knot in one end of shock cord.
B. Pass the free end of the shock cord through shock cord mount in body half B until the knot is against shock cord mount of body.
C. Tie the free end to the nose cone using a double knot.

3. ASSEMBLE BODY HALVES

A. Apply plastic cement to body half A as shown.
B. Align pegs with holes in and press halves together. Hold until cement dries completely.
C. Apply plastic cement to area shown on body tube. Attach launch lug and wipe away excess cement. Let dry completely.

4. PREPARE STREAMER FOR FLIGHT

A. Tie streamer to shock cord 1" (25 mm) from nose cone.
B. Insert 1/4-1/2 squares of loosely crumpled recovery wadding into rocket body.
C. Fold streamer.
D. Roll.
E. Insert streamer, shock cord and nose cone into rocket body.

NOTE: Only Estes Wadding (302274) recommended.

IMPORTANT: Wadding must be in place and slide freely for rocket to work properly.

NOTE: Streamer should slide easily into body. If fit is too tight, remove streamer and repack again.