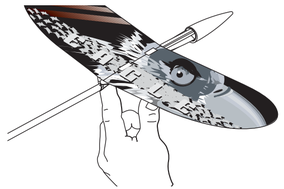
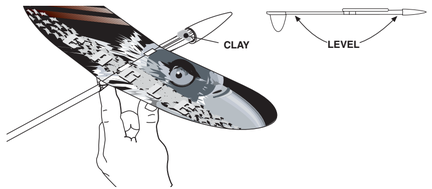
6. BALANCE THE GLIDER

A. Place your thumb and index finger on the red dots under the wing.

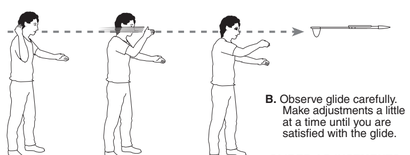


B. Add clay weight to the fuselage just behind the nose cone, until the glider balances at these points.

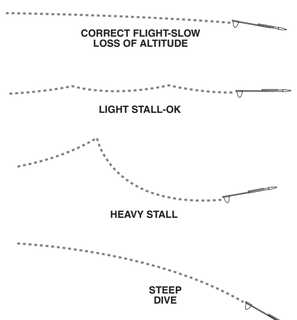


7. FLIGHT TEST GLIDER

A. Hold glider at eye level, aim at a spot about 50 feet (15 m) away and toss glider straight out.



NOTE: ONLY DO GLIDE TEST ON SOFT, GRASSY AREA SO YOU DON'T DAMAGE YOUR GLIDER.



B. Observe glide carefully. Make adjustments a little at a time until you are satisfied with the glide.

GLIDER ADJUSTMENTS:

If Glider dives:

1) Remove weight from nose cone area.

If Glider stalls:

1) Add weight to nose cone area.

The Glider should perform a large, gliding circle during descent.

8. PREPARE STREAMER FOR FLIGHT

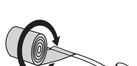
A. Insert 2-3 squares of loosely crumpled recovery wadding into rocket.

NOTE: Only Estes Recovery Wadding (#302274) recommended.

B. Fold streamer in half.

C. Fold in half again.

D. Roll.



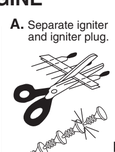
E. Insert streamer, shock cord and nose cone into body tube.

PREPARE ENGINE

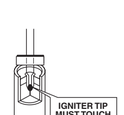
⚠ WARNING: FLAMMABLE

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 igniter before storing your engine.

A. Separate igniter and igniter plug.



B. Insert igniter.

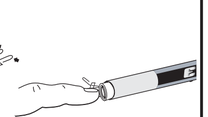


C. Insert igniter plug.

D. Firmly push all the way in.

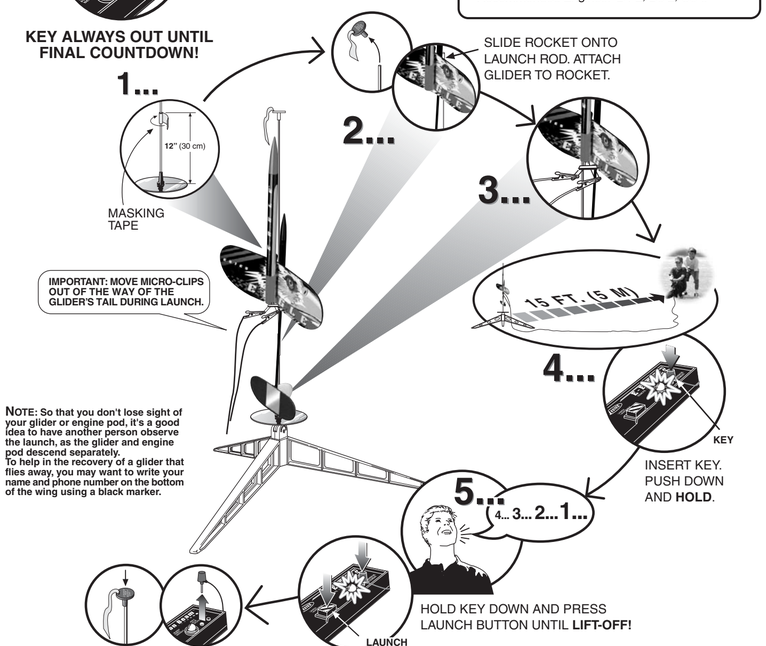
E. Bend igniter wires back as shown.

F. Insert engine into rocket.



COUNTDOWN AND LAUNCH

KEY ALWAYS OUT UNTIL FINAL COUNTDOWN!



NOTE: So that you don't lose sight of your glider or engine pod, it's a good idea to have another person observe the launch, as the glider and engine pod descend separately. To help in the recovery of a glider that flies away, you may want to write your name and phone number on the bottom of the wing using a black marker.

ESTES LAUNCH SUPPLIES

(sold separately):

- Porta-Pad® II Launch Pad
- Electron Beam® Launch Controller
- Recovery Wadding
- Igniters (w/ engines)
- Igniter Plugs (w/ engines)
- Recommended Engines: B4-2, B6-2, C6-3

PRECAUTIONS

NAR Safety Code

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 and glider. 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.

ESTES®

www.estesrockets.com

ESTES INDUSTRIES
1295 H Street
Penrose, CO 81240
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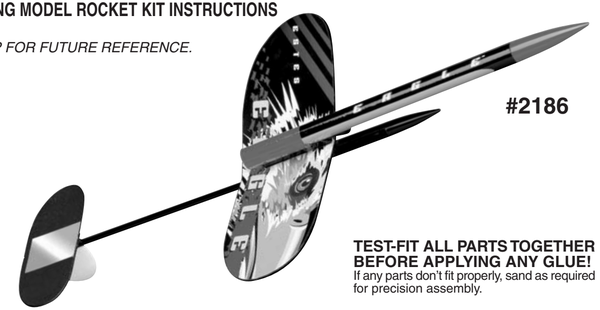
EAGLE™

ROCKET BOOSTED GLIDER

FLYING MODEL ROCKET KIT INSTRUCTIONS

KEEP FOR FUTURE REFERENCE.

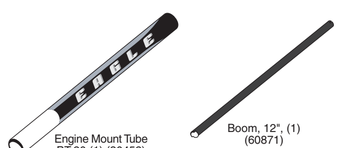
#2186



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.

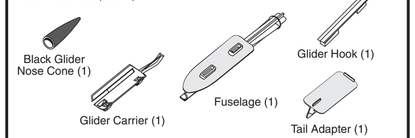
PARTS:
Locate the parts shown below and lay them out on the table in front of you. DO NOT USE THIS DRAWING TO ASSEMBLE YOUR ROCKET.



Engine Mount Tube BT-20 (1) (30452)

Boom, 12", (1) (60871)

Glider Parts Set (60870)



Steel Ball Small (1)

Steel Ball Large (1)

Rubber Shock Cord 1/8" x 18" (1) (38366)

Yellow Spacer Tool ET-2 (1) (35003)

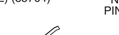
Red Plastic Nose Cone PNC-20A (1) (72602)

Green Engine Block AR-520 (1) (30162-2)

Clay Weight (2) (85704)

Nose Cone Insert PIN-20A (1) (72603)

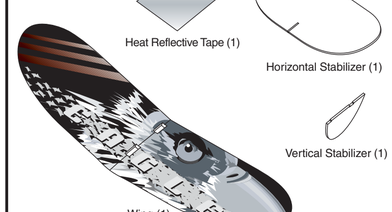
Red Vinyl Tape (1)



Engine Hook EH-2 (1) (35021)

Plastic Streamer 30" (1) (38278)

Wing Parts Set (60872)

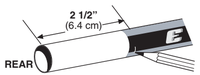


SUPPLIES

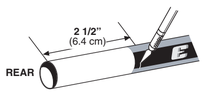
In addition to the parts included in the kit you will also need:

1. INSTALL ENGINE BLOCK

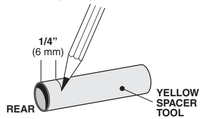
A. Measure and mark engine mount tube 2 1/2" (6.4 cm) from rear, as shown.



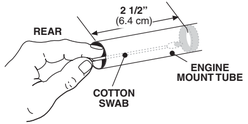
B. Cut a 1/8" (3 mm) slit at the 2 1/2" (6.4 cm) mark.



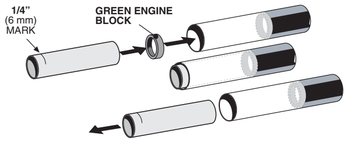
C. Mark yellow spacer tool 1/4" (6 mm) from rear.



D. Smear glue 2 1/2" (6.4 cm) inside engine mount tube.

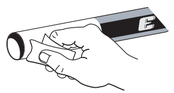


E. Push engine block into engine mount tube with yellow spacer tool just past the mark. **Remove yellow spacer tool immediately!** Let dry.

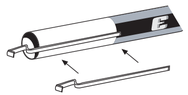


2. ATTACH GLIDER CARRIER

A. Use sandpaper and rough up the engine mount tube from end of tube up to decal.

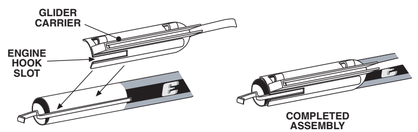


B. Position and insert engine hook into slit as shown.

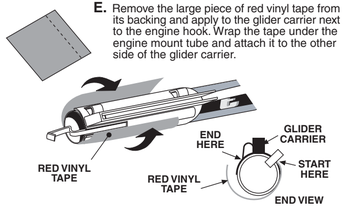


C. Apply tube-type plastic cement to underside of glider carrier.

D. Align slot in glider carrier over engine hook. Place glider carrier onto rear of engine mount tube flush with end. Let dry.



E. Remove the large piece of red vinyl tape from its backing and apply to the glider carrier next to the engine hook. Wrap the tape under the engine mount tube and attach it to the other side of the glider carrier.



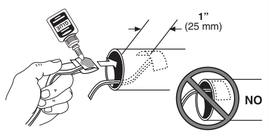
3. INSTALL SHOCK CORD MOUNT

A. Cut out shock cord mount.

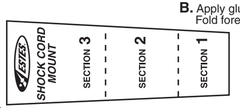
B. Apply glue. Fold foreward.

C. Apply glue. Fold forward.

D. Squeeze tightly and hold for one minute.

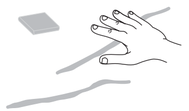


E. Glue mount 1" (25 mm) inside front end of body tube. Hold until glue sets. Let dry.



4. ATTACH SHOCK CORD AND STREAMER

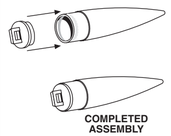
A. Using one square of clay, roll into "snakes".



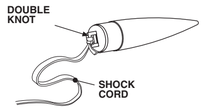
B. Press clay snakes into tip of red nose cone using a pencil.

C. Apply tube-type plastic cement inside end of nose cone.

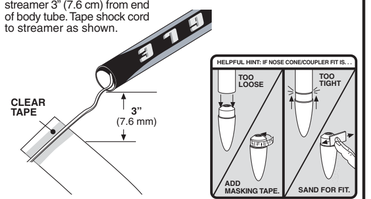
D. Insert nose cone insert. Let dry.



E. Tie shock cord to nose cone using a double knot.



F. Lay shock cord over end of streamer 3" (7.6 cm) from end of body tube. Tape shock cord to streamer as shown.

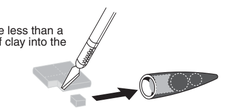


5. CONSTRUCT GLIDER

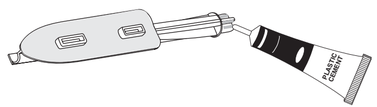
A. Insert small steel ball into black nose cone.

B. Insert large steel ball into black nose cone.

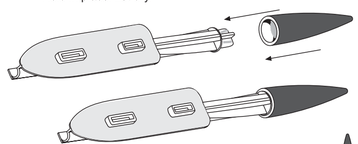
C. Press a little less than a 1/4 piece of clay into the nose cone.



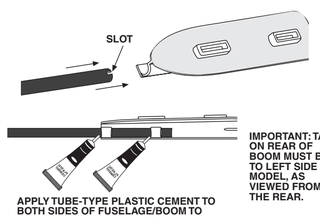
D. Apply tube-type plastic cement on front of fuselage tip as shown.

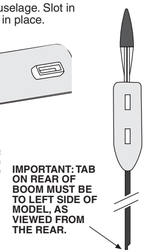


E. Press nose cone all the way onto end of fuselage. Hold in place. Let dry.

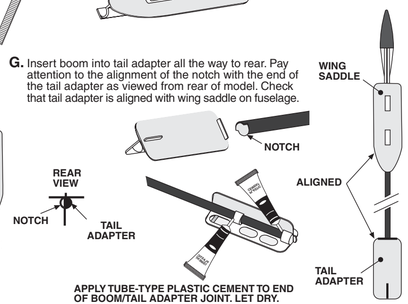


F. Insert slotted end of boom into rear of fuselage. Slot in boom must go all the way forward, glue in place.



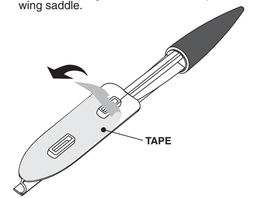


G. Insert boom into tail adapter all the way to rear. Pay attention to the alignment of the notch with the end of the tail adapter as viewed from rear of model. Check that tail adapter is aligned with wing saddle on fuselage.

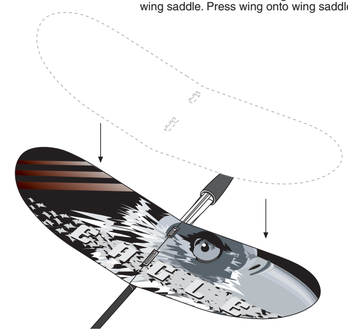


5. CONSTRUCT GLIDER (continued)

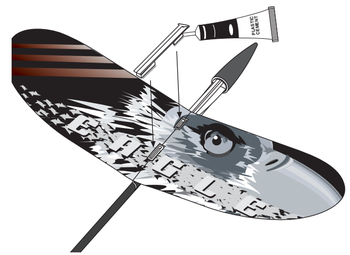
H. Remove backing from double-sided tape on wing saddle.



I. Position die cut holes in wing over socket in wing saddle. Press wing onto wing saddle.



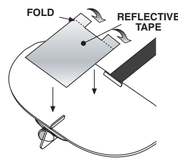
J. Apply tube-type plastic cement to tabs on glider hook. Insert glider hook into sockets in wing saddle. Press glider hook down fully. Let dry.

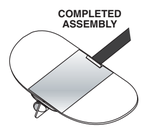


K. Remove backing from double-sided tape on top of tail adapter. Attach horizontal stabilizer to tail adapter.

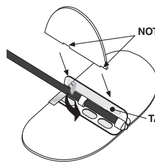
OPTIONAL: A BLACK MARKER MAY BE USED TO COLOR THE HORIZONTAL STAB. USE LIGHT STROKES SO YOU DON'T BEND OR DAMAGE THE HORIZONTAL STAB.

L. Apply reflective tape on top of horzontal stab and fold over leading edge of stab.





M. Remove backing from double-sided tape from tab on bottom of tail adapter. Noting notches on vertical stab press it into place against double-sided tape.



N. Apply remaining piece of red vinyl tape centered over leading edge of vertical stab and fold over to cover both foam and plastic. Apply so it wraps around the leading edge of the vertical stab.