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Estes Industries
1295 H Street
Penrose, CO 81240

Executioner™

FLYING MODEL ROCKET KIT EST 1951

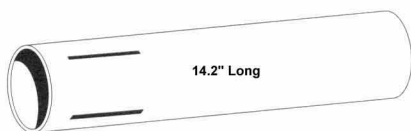


ASSEMBLY TIP

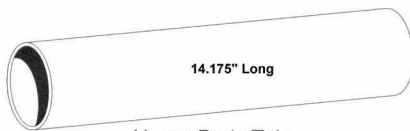
Read all instructions before beginning work on your model. Make sure you have all parts and supplies.
TEST-FIT ALL PARTS TOGETHER BEFORE APPLYING ANY GLUE. If any parts don't fit properly, sand as required for precision assembly.

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.



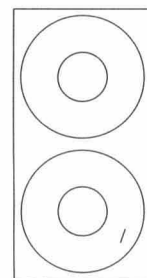
Slotted Body Tube BT-80 (1)
(031180)



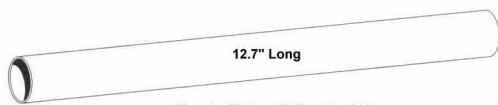
Upper Body Tube
BT-80KD (1) (030433)



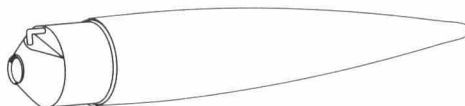
Joiner Tube
JT-80L (1) (030278)



Tube Adapter 69
(RA5080) (1)
(030052)



Body Tube BT-50L (1)
(030366)



Nose Cone NC-80K
(1) (071035)



Shock Cord SC-36
(1) (038382)



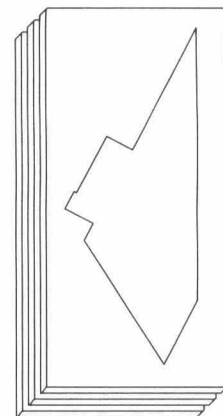
Decal Sheet (1) (037041)



Body Tube 52AG (1) (030450)



Engine Hook-E
(1) (035022)



Laser Cut Fins (3)
(032910)



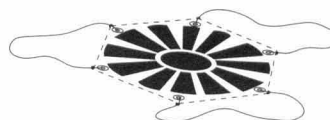
Yellow Spacer Tool (1)
(034997)



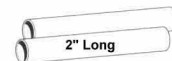
Orange E to D Spacer (1)
(035005)



Green Engine Block
(AR-2050) (1)
(030164-2)



Assembled Parachute
24" (61 cm) (1)
(035803)



1/4" (6 mm) Launch Lug
(2) (038181)

SUPPLIES

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



MASKING
TAPE



SCISSORS



PENCIL



RULER



FINE
SAND
PAPER
(#400-600 GRIT)



CARPENTER'S
GLUE



MODELING
KNIFE



PRIMER
(WHITE)



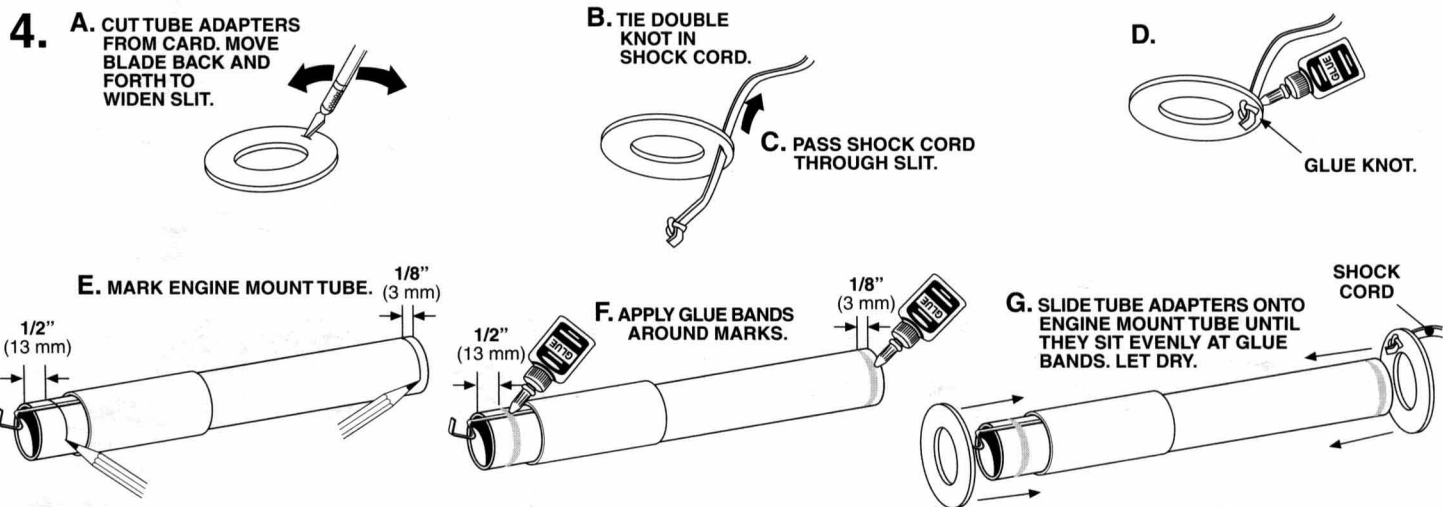
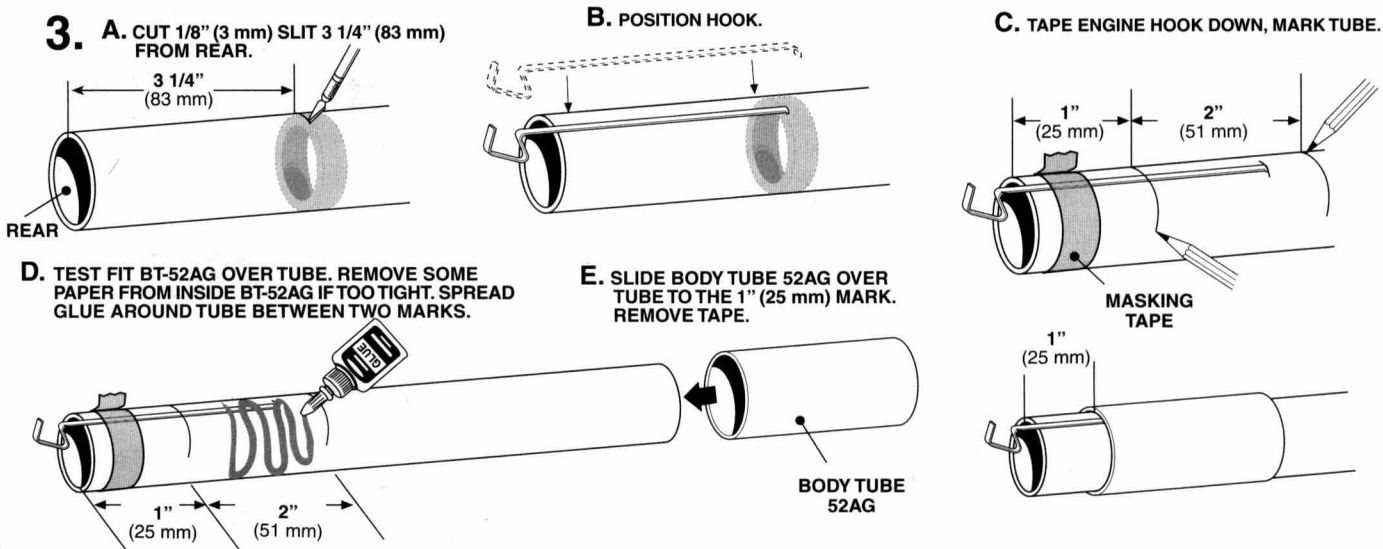
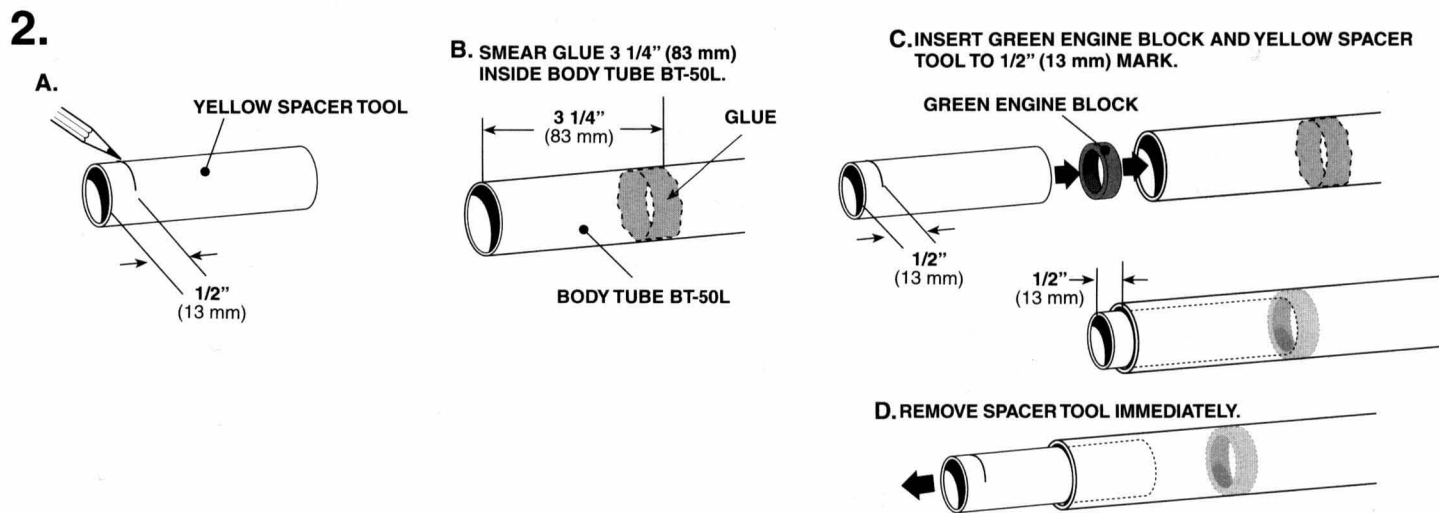
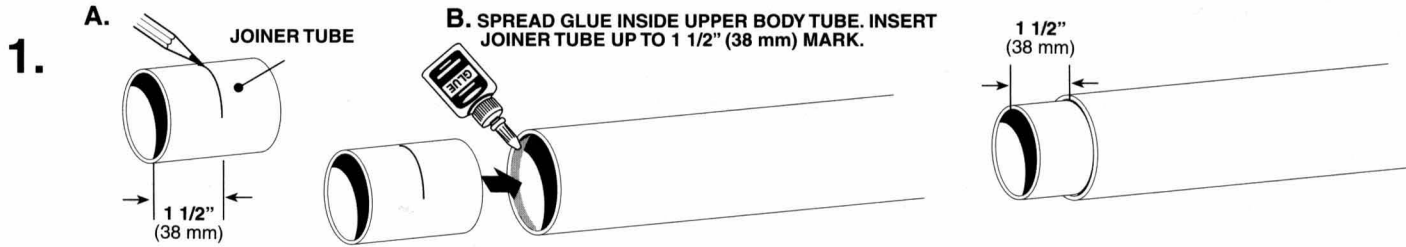
SPRAY PAINT:
(GLOSS BLACK
& METALLIC
SILVER)



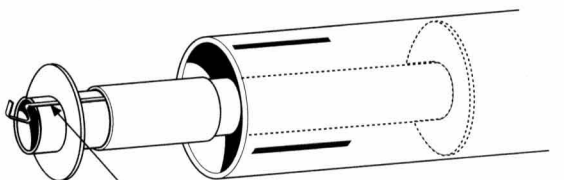
SPRAY PAINT:
(CLEAR)



1/32" (0.8 mm)
PINSTRIPE
TAPE
(YELLOW)

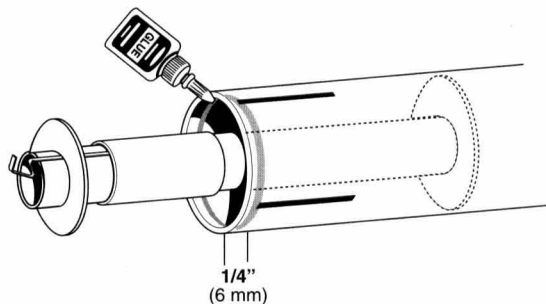


- 5. A. INSERT ENGINE MOUNT TUBE HALF WAY INTO SLOTTED BODY TUBE.**

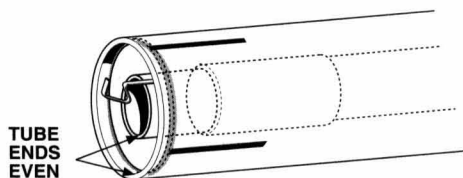


POSITION ENGINE HOOK BETWEEN FIN SLOTS.

- B. APPLY GLUE BAND 1/4" (6 mm) INSIDE SLOTTED BODY TUBE.**

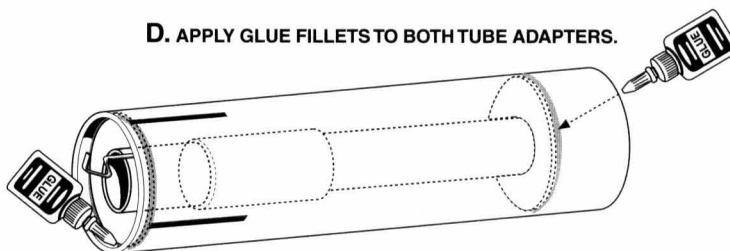


- C. INSERT ENGINE MOUNT TUBE UNTIL TUBE ENDS ARE EVEN.**

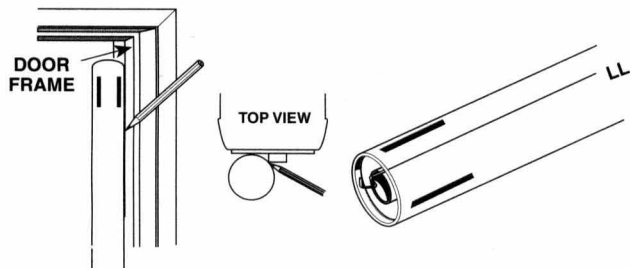


TUBE ENDS EVEN

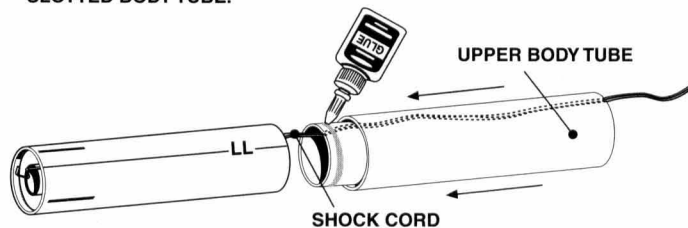
- D. APPLY GLUE FILLETS TO BOTH TUBE ADAPTERS.**



- 6. A. DRAW LAUNCH LUG (LL) LINE BETWEEN SLOTS ABOVE HOOK ENTIRE LENGTH OF SLOTTED TUBE.**



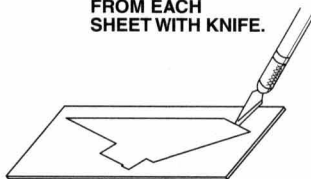
- B. THREAD SHOCK CORD THROUGH UPPER BODY TUBE AND APPLY GLUE AROUND JOINER. INSERT INTO SLOTTED BODY TUBE.**



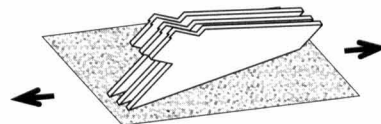
- 7. A. SAND LASER CUT FIN SHEETS.**



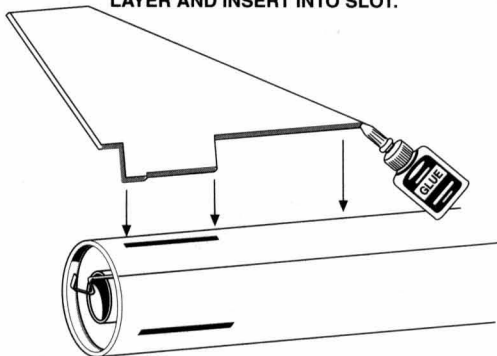
- B. REMOVE FIN FROM EACH SHEET WITH KNIFE.**



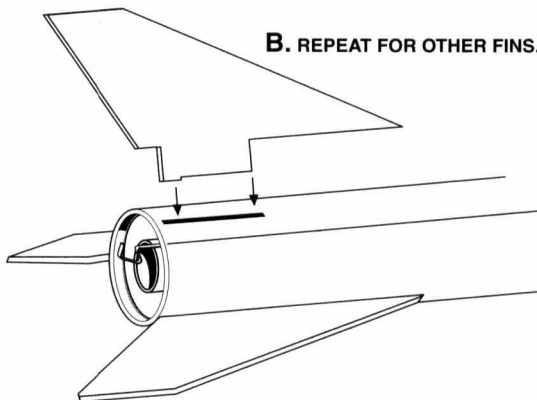
- C. SAND EDGES.**



- 8. A. TEST FIT FIN INTO EACH SLOT. SAND FIN SURFACE IF NEEDED FOR PROPER FIT. APPLY THIN LAYER OF GLUE TO FIN, WAIT ONE MINUTE. APPLY SECOND LAYER AND INSERT INTO SLOT.**



- B. REPEAT FOR OTHER FIN.**



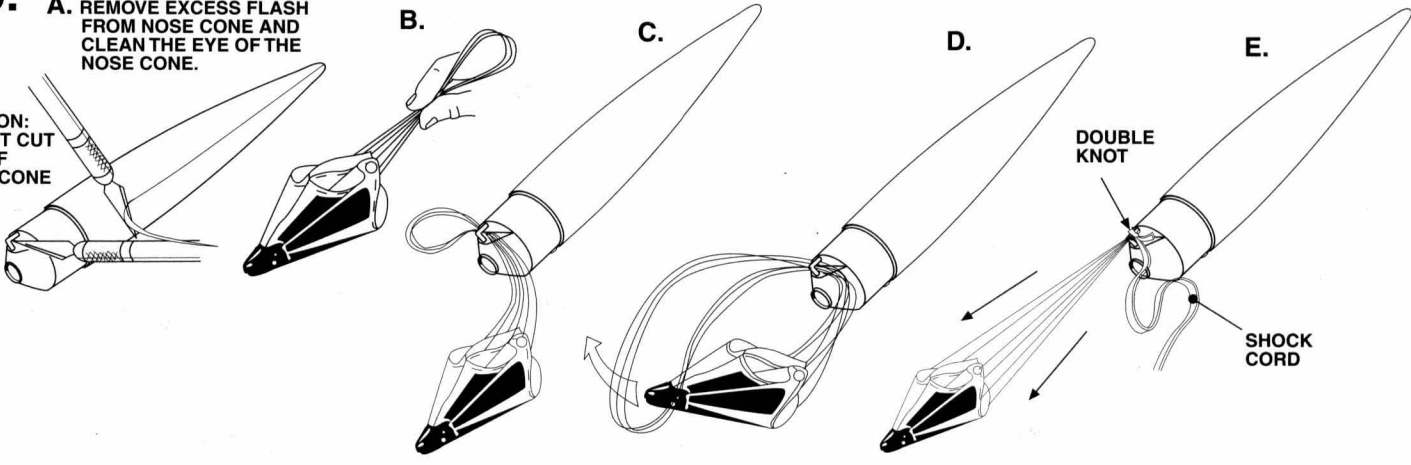
- C. ALLOW GLUE TO DRY.**



NOTE: FINS MUST BE ATTACHED CORRECTLY FOR A STABLE FLIGHT.

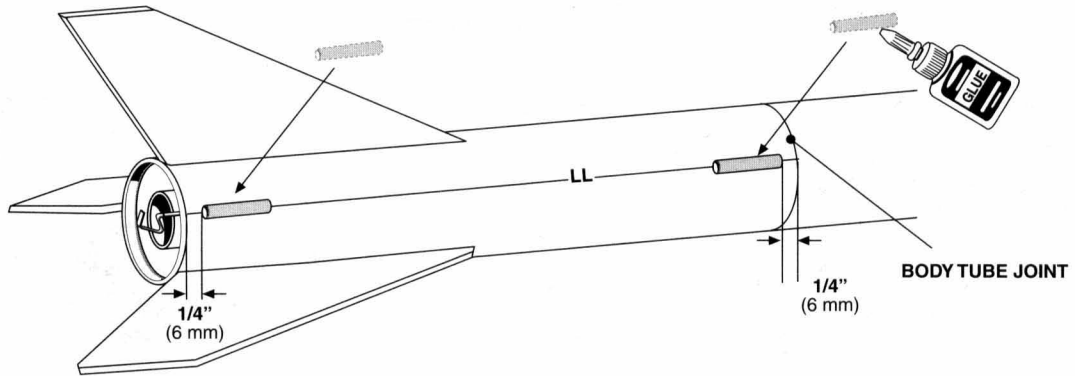
9. A. REMOVE EXCESS FLASH FROM NOSE CONE AND CLEAN THE EYE OF THE NOSE CONE.

CAUTION:
DO NOT CUT
EYE OF
NOSE CONE
OFF.



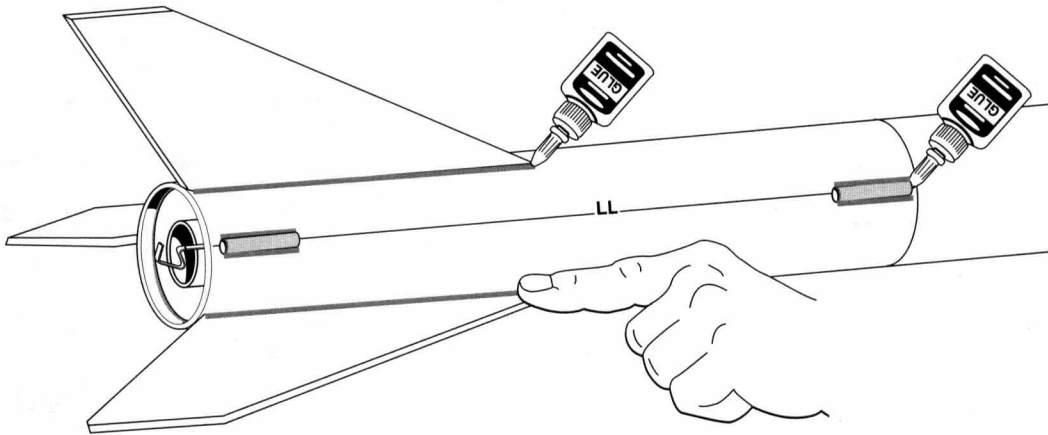
10.

A. GLUE LAUNCH LUGS ONTO LAUNCH LUG (LL) LINE.



11.

A. APPLY GLUE FILLETS TO ALL LAUNCH LUG AND FIN/BODY TUBE JOINTS.



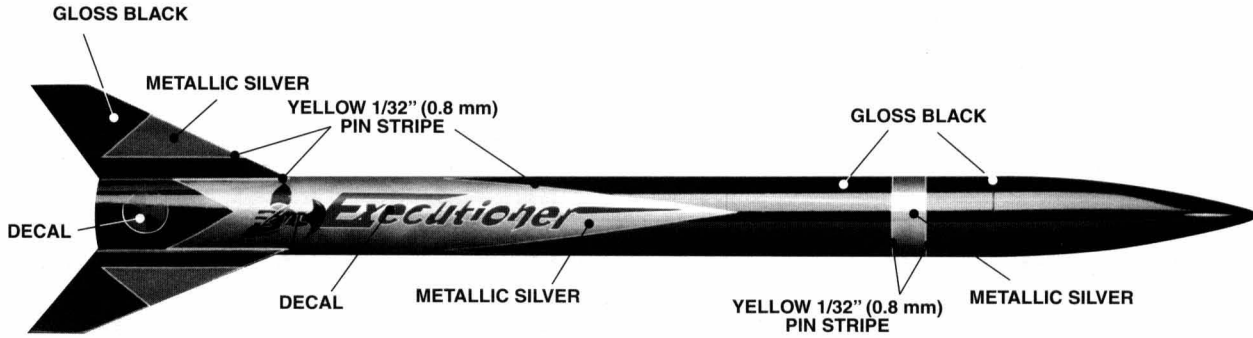
B. SMOOTH WITH FINGER TIP.

C. ALLOW GLUE TO DRY.

FINISHING YOUR ROCKET

FIRST SPRAY ROCKET WITH WHITE PRIMER, LET DRY AND SAND. REPEAT UNTIL ROCKET IS SMOOTH.

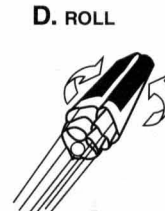
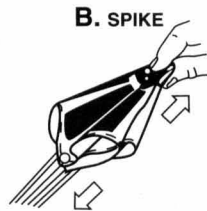
DECALS



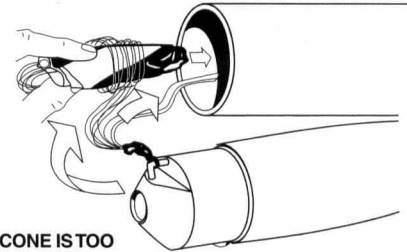
* CLEAR COAT ENTIRE ROCKET WHEN PAINT DRIES.



ROCKET PREFLIGHT



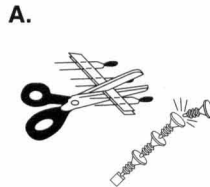
E. WRAP LINES LOOSELY, AROUND ROLLED CHUTE. INSERT CHUTE & SHOCK CORD INTO BODY TUBE AND SLIP NOSE CONE INTO PLACE.



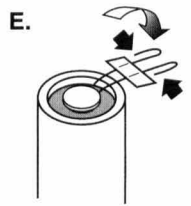
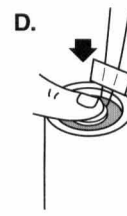
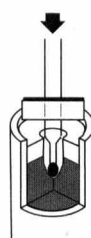
NOTE: IF NOSE CONE IS TOO LOOSE, ADD TAPE.

ENGINE PREP

WARNING: FLAMMABLE
Before proceeding 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.

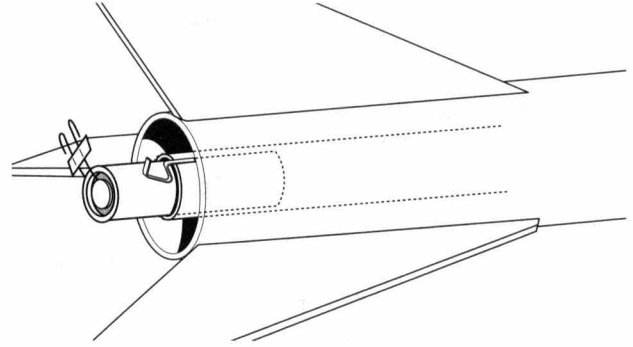
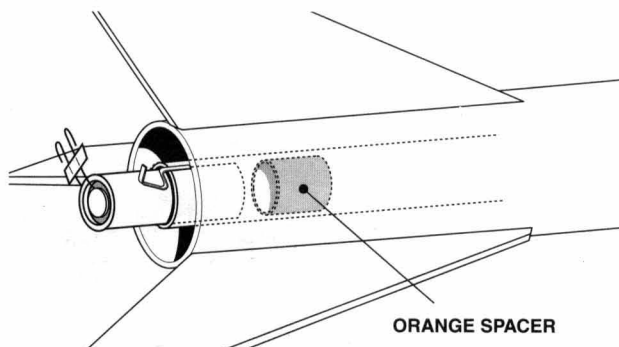


B. TIP MUST TOUCH PROPELLANT.



F. IF YOU ARE USING A 'D' ENGINE, INSERT ORANGE SPACER, THEN ENGINE.

G. FOR AN 'E' ENGINE, JUST INSERT ENGINE.



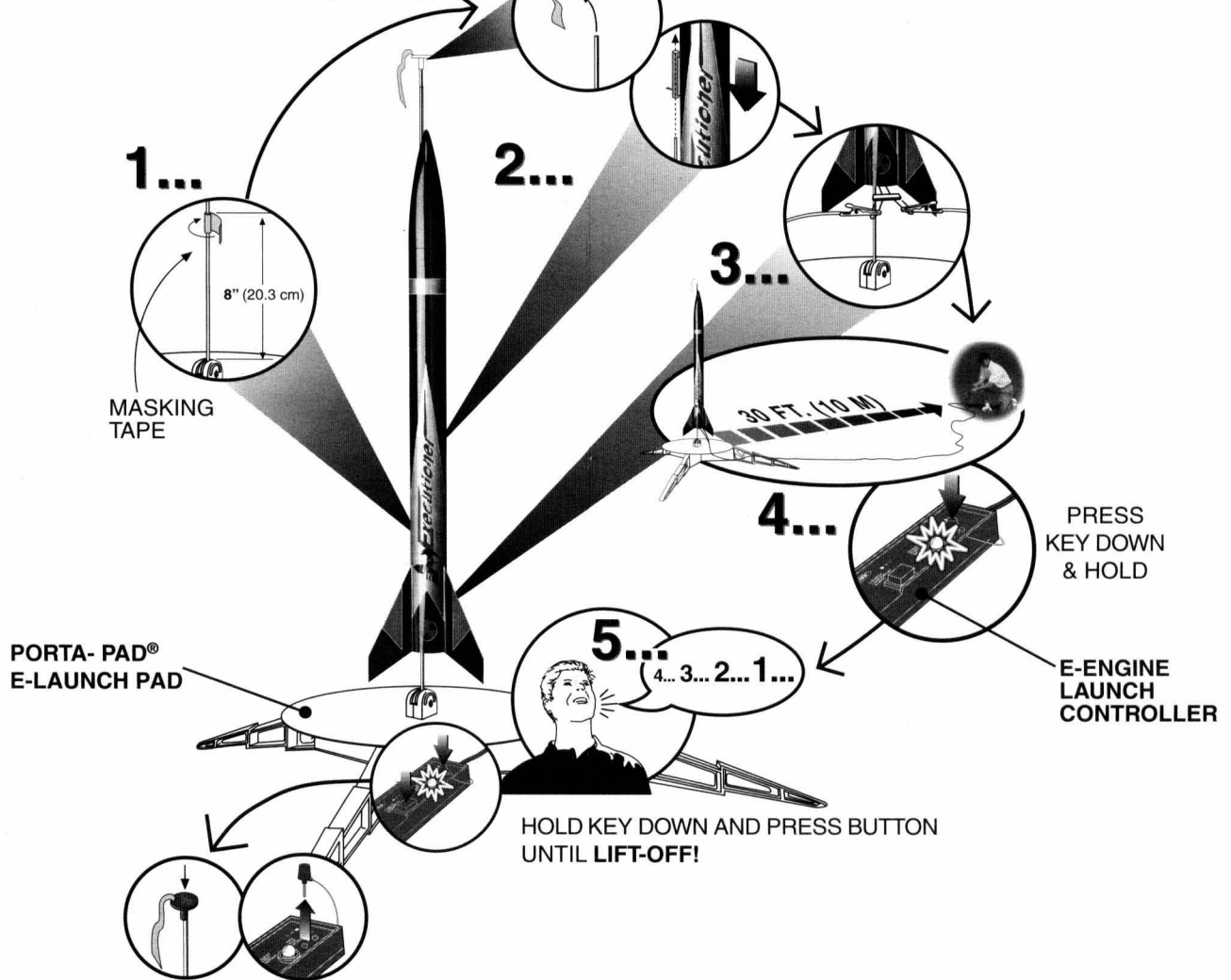
COUNTDOWN AND LAUNCH

LAUNCH SUPPLIES

(Sold Separately)

- Estes® Porta-Pad® E-Launch Pad (EST 2238) and E-Engine Launch Controller (EST 2230)
- Recovery Wadding (302274)
- Igniters (with Engines)
- Igniter Plugs (with Engines)
- Estes® Engines: D12-3 (First Flight), E9-4, E9-6

KEY ALWAYS OUT UNTIL FINAL COUNTDOWN!



PRECAUTIONS

NAR Safety Code



NO DRY GRASS OR WEEDS

FLYING YOUR ROCKET

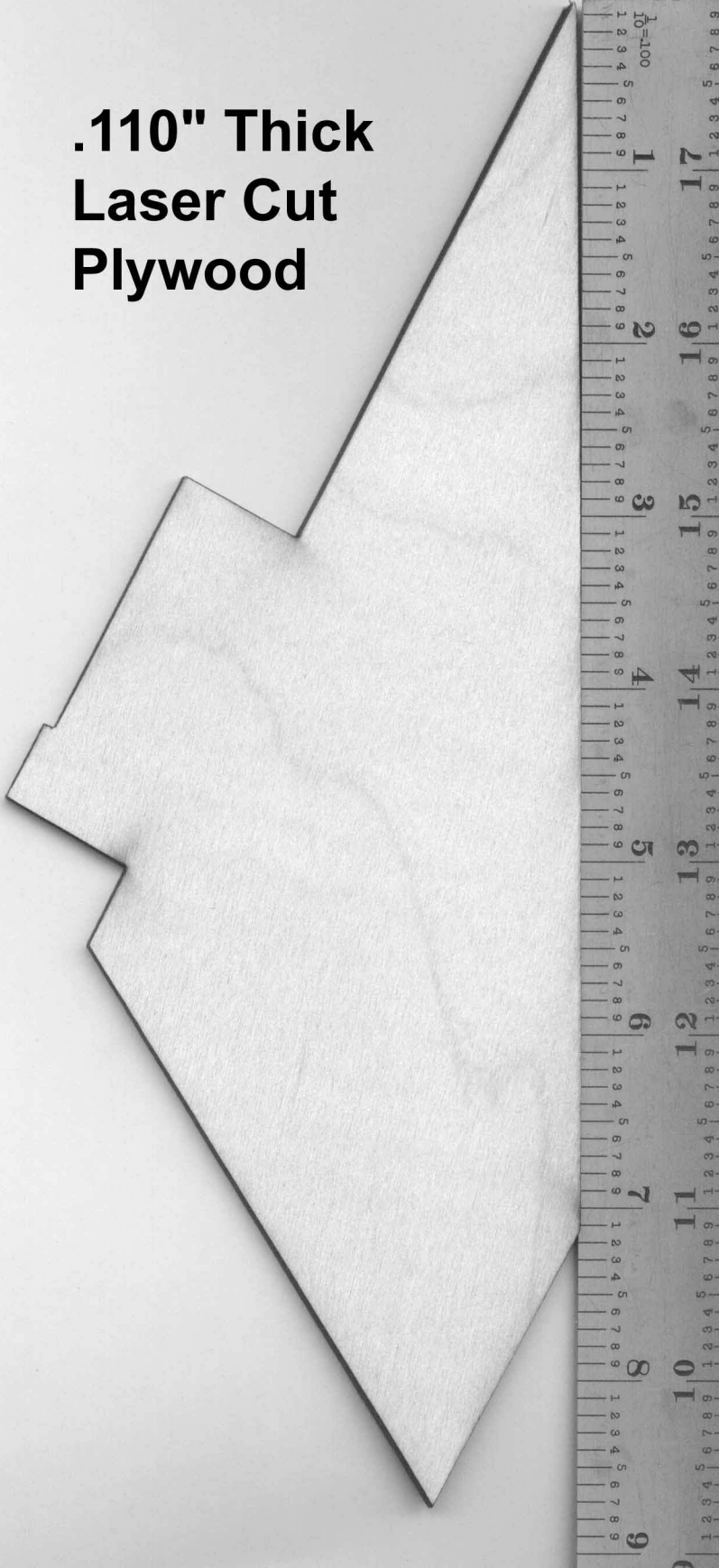
Choose a large field (1000 ft. [305 m] square) free of dry weeds and brown grass. The larger the launch area, the better your chance of recovering your rocket. Football fields and playgrounds are great. Launch only with little or no wind and good visibility.

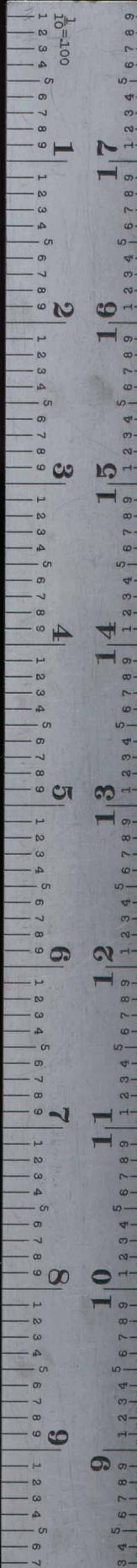
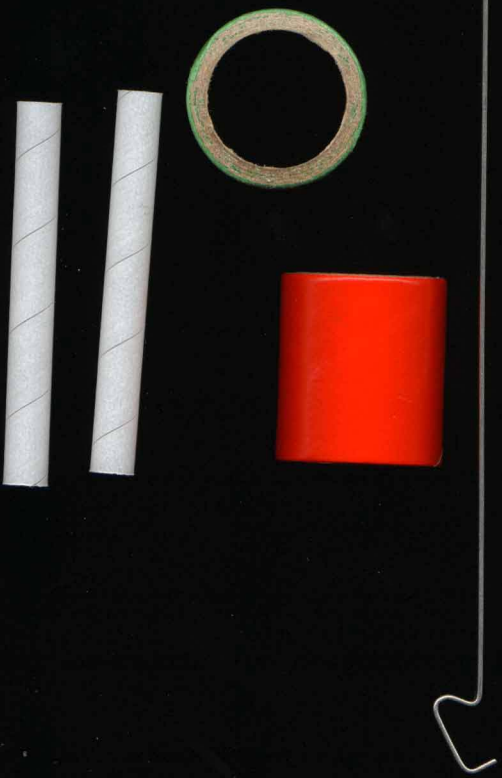
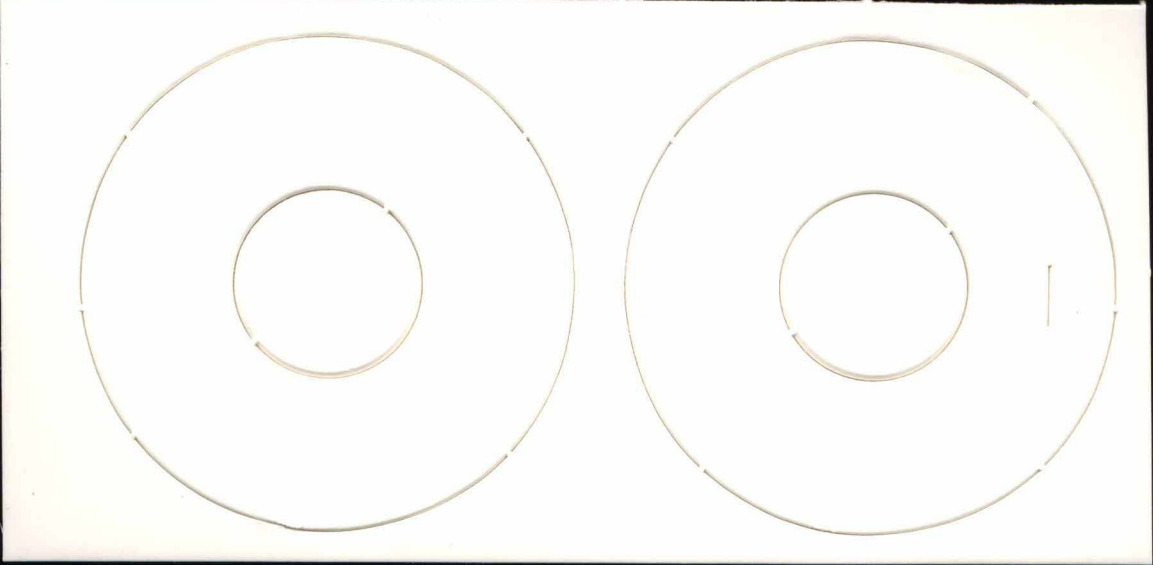
Always follow the National Association of Rocketry (NAR) SAFETY CODE.

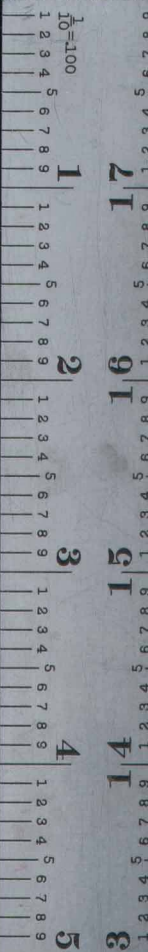
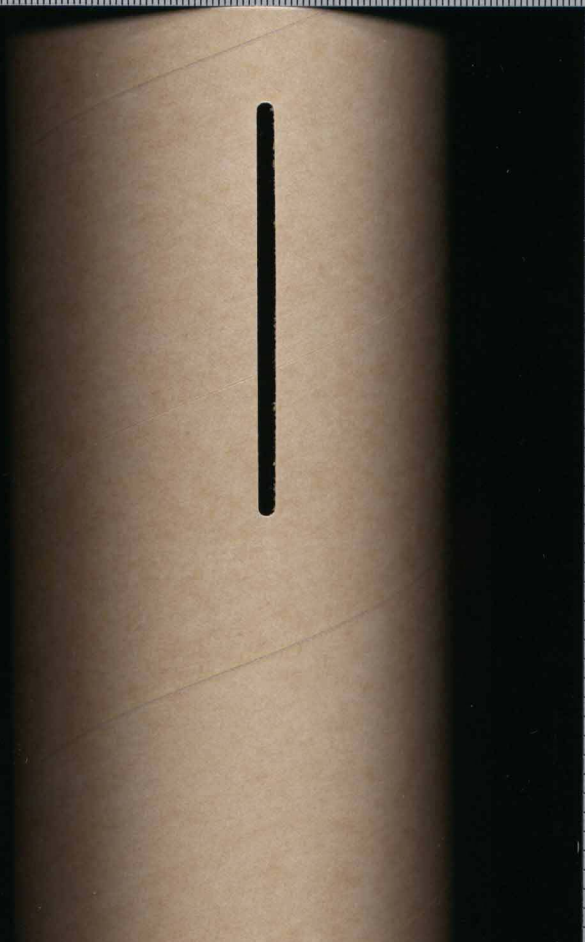
MISFIRES

TAKE THE KEY OUT OF THE CONTROLLER. WAIT ONE MINUTE BEFORE GOING NEAR THE ROCKET! 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.

**.110" Thick
Laser Cut
Plywood**







CUT JUST INSIDE DOTTED LINES.

Executioner™



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Executioner



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FLYING MODEL

ROCKET™

SKILL LEVEL 3

MODEL KIT

• OVER 3 FT.
(0.9 m)
TALL!

• FLIES TO
590 FT.
(180 m)!

AWESOME
"E" ENGINE
ROCKET!



Includes Adapter
for use with E-10
Engines.

DESIGNED BY
Hobby King
Model Kit # HK-1001



MADE IN CHINA

EST 1991

Executioner

Executioner

