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**BETA**  
SERIES

SKILL LEVEL 1

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# PROWLER™

FLYING MODEL ROCKET KIT INSTRUCTIONS

## MATERIALS REQUIRED:

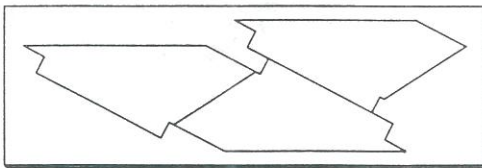
PENCIL, RULER, HOBBY KNIFE, WHITE OR YELLOW GLUE, 3/4" (19 mm) MASKING TAPE, SANDPAPER, AUTOMOTIVE PRIMER, DARK BLUE GLOSS SPRAY PAINT

**ALL GLUED AREAS ARE SHADED IN GRAY**

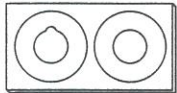
BE SURE TO READ ALL INSTRUCTIONS, TEST FIT ALL PARTS, AND SAND IF NECESSARY BEFORE GLUING.



DECAL (1)  
37608



DIE CUT BALSA FIN SHEET (1)  
32906



CENTERING RINGS  
#2060 (1 CARD)  
30128



RED TUBE COUPLERS  
KJT 60C (2)  
30176-5

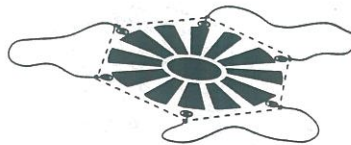
SLOTTED BODY TUBE  
#BT-60 x 12 (1)  
31189

WHITE ENGINE MOUNT TUBE  
#BT-20 (1) 30329

BLACK RETAINER RING KERH 20 (1)  
30170-3

ENGINE HOOK  
EH-2A (1)  
35021

LAUNCH LUGS LL2A (2)  
38175



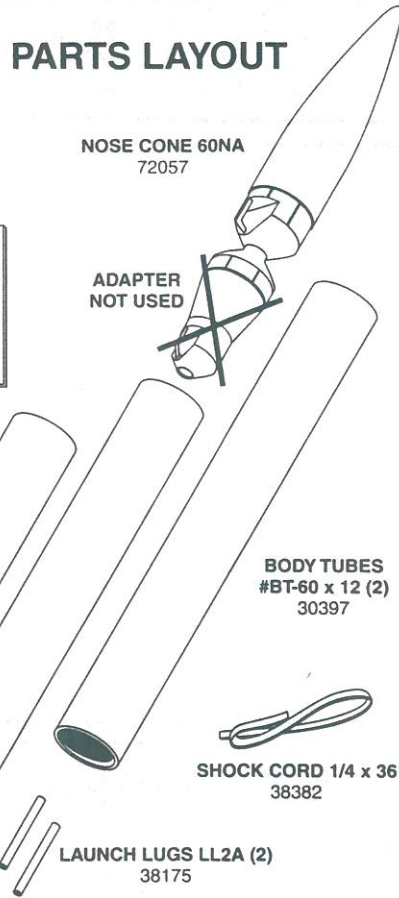
ASSEMBLED PARACHUTE - 24 (1)  
35803

NOSE CONE 60NA  
72057

ADAPTER  
NOT USED

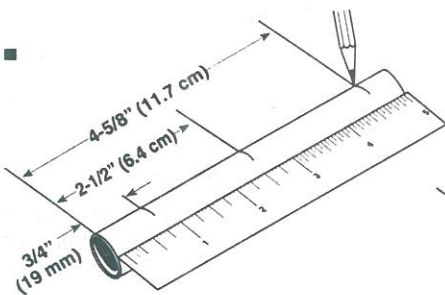
BODY TUBES  
#BT-60 x 12 (2)  
30397

SHOCK CORD 1/4 x 36  
38382

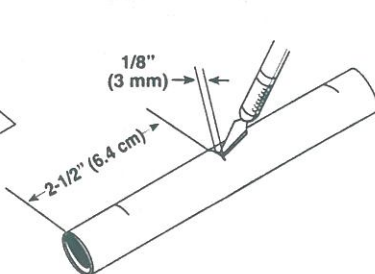


## PARTS LAYOUT

1.



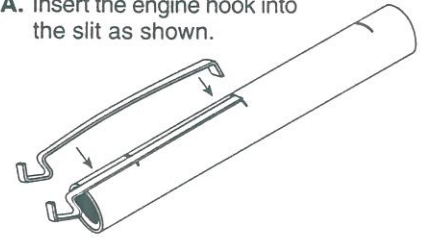
A. Mark the white engine mount tube at 3/4" (19 mm), 2-1/2" (6.4 cm), and at 4-5/8" (11.7 cm).



B. Use a hobby knife to make a 1/8" (3 mm) wide slit at the 2-1/2" (6.4 cm) mark only.

2.

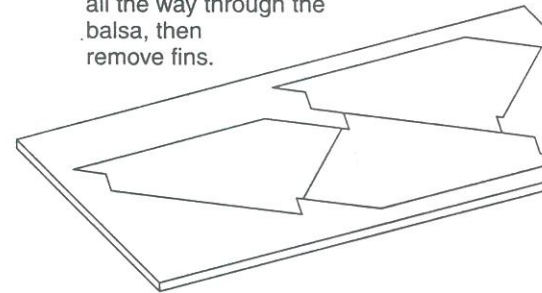
A. Insert the engine hook into the slit as shown.



B. Apply a...  
the 3/4"  
the bla  
the mar  
the eng

3.

A. Use a hobby knife to carefully cut fins out of sheet. (Always cut away from other fins to avoid damage.) Be sure cuts go all the way through the balsa, then remove fins.



F. Once ring  
apply glue  
of rings,  
and let gl

D. Test fit all fins to make s  
the centering rings and  
contact the engine mo  
necessary for a proper

4.

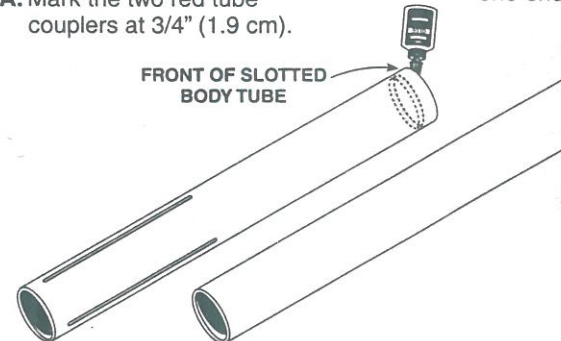
3/4" (1.9 cm)



B. Test fit co  
of glue in  
of slots) of  
one end

A. Mark the two red tube couplers at 3/4" (1.9 cm).

FRONT OF SLOTTED BODY TUBE



line of glue just above 9 mm mark, then slide engine retainer ring down through the glue to this will secure hook.

C. Use a hobby knife to carefully remove the centering rings from their card.

D. Slide the notched centering ring (with notch over the engine hook) onto the rear of the engine mount tube until it fully contacts the black retainer ring.

E. Slide the remaining centering ring over the front of the engine mount tube to the 4-5/8" (11.7 cm) mark.

are in place, round both sides both with finger, dry thoroughly.

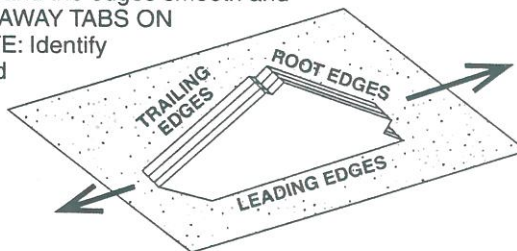
NOTE: YOU MAY NEED TO SAND RINGS FOR PROPER FIT.

isa



B. Keep a stick of scrap balsa to use as a glue applicator.

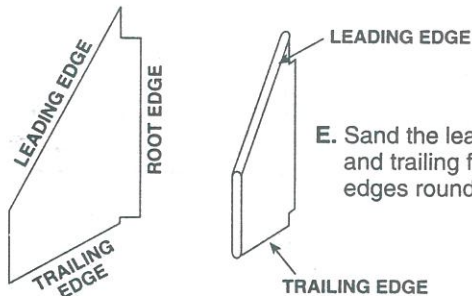
C. Lay sandpaper, rough side up, on table. Stack fins together and lightly sand the edges smooth and flat. DO NOT SAND AWAY TABS ON ROOT EDGES. NOTE: Identify the root, leading, and trailing edges of your fins.



NOTE HOW FIN FITS IN FRONT OF ENGINE RETAINER RING

DO NOT GLUE YET!

they fit between at the tabs tube. Sand as



E. Sand the leading and trailing fin edges round.

ers, then apply a small amount le the FRONT (end without slotted body tube and inside a non-slotted tube.

C. Use a twisting motion to insert a red tube coupler into each tube up to their 3/4" (1.9 cm) marks. Let glue dry.

E. While glue is still wet, roll the joined tubes on a flat surface. Allow to dry. (This will ensure the body of your rocket is straight.)

D. Apply a small amount of glue inside each end of the remaining non-slotted body tube, and slide red tube couplers into each end until the tubes are perfectly joined.

YES

NO

