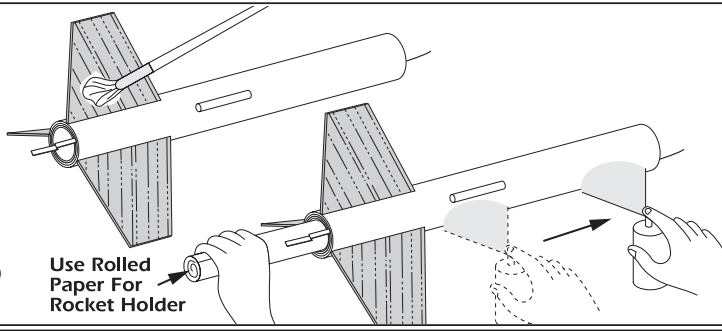


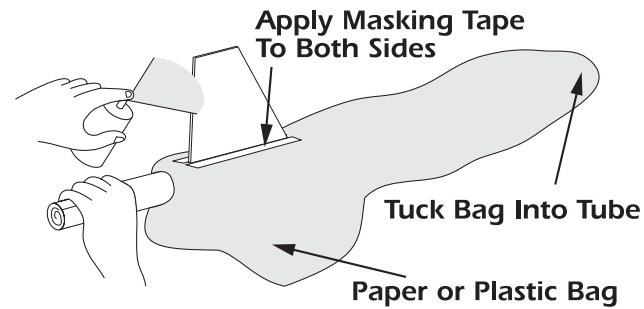
STEP 13

- A. After all the glue is completely dry apply a coat of sanding sealer to each fin. When sealer is dry, lightly sand each fin.
- B. Repeat the sealing and sanding process until the surface of each fin is smooth.
- C. Paint the entire rocket body and fins with spray primer. Follow instructions on the spray can for best results. Allow to dry and sand smooth.



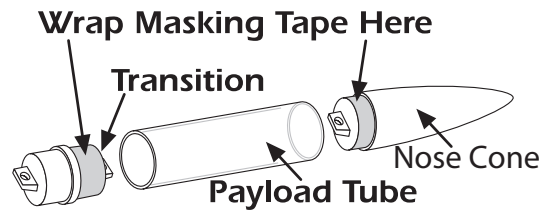
STEP 14

- A. Paint the entire rocket body and fins with gloss white spray enamel. Allow to dry completely.
- B. Apply masking tape around both sides of one body tube-fin joint. Protect the rest of the rocket with a plastic or paper bag. Spray paint one fin with several light coats of gloss orange paint. Carefully remove the masking tape after paint is dry.



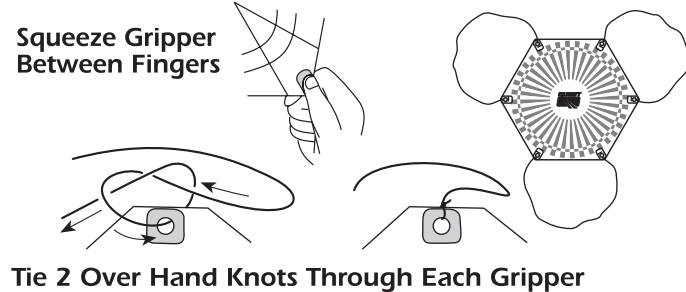
STEP 15

- A. If you don't intend to use the Payload Tube to carry payloads, we recommend you glue the Nose Cone and Transition to the Payload Tube.
 - B. If you don't glue these parts, make certain their fit is tight. This can be done by wrapping a piece of masking tape around the shoulder of the nose cone and the payload transition.
- NOTE: Failure to glue or create a tight fit between these pieces may result in loss of nose cone, payload tube and payload.



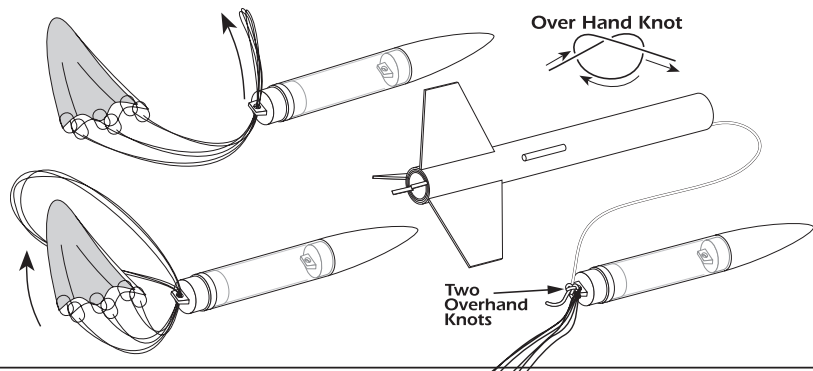
STEP 16

- A. Apply gripper tabs to parachute so holes in gripper tabs line up with holes in parachute. Firmly squeeze each gripper tab and parachute between your fingers.
- B. Assemble the parachute by passing the end of a shroud line through a hole in a gripper tab and tying 2 overhand knots. Tie each of the 6 ends of shroud line to the parachute through the gripper tab holes.
- C. Assembled parachute should appear as shown.



STEP 17

- A. Pass the shroud line loops through the eyelet on the transition. Pass parachute through loop ends and pull lines tightly against the eyelet.
- B. Use two overhand knots to tie the loose end of the shock cord onto the base of the nose cone.



STEP 18

- When all paint is dry, apply the self-adhesive decals as shown.
- NOTE: Use caution when removing the decal from the backing to prevent decal from curling over onto itself.



Payloader One™ ASSEMBLY INSTRUCTIONS



Product No. 1018

Skill Level One



Things You'll Need To Assemble this Kit:
Hobby Knife, Pencil and Paint Brush

Sandpaper (220 or 320 Grit) &
Sanding Sealer

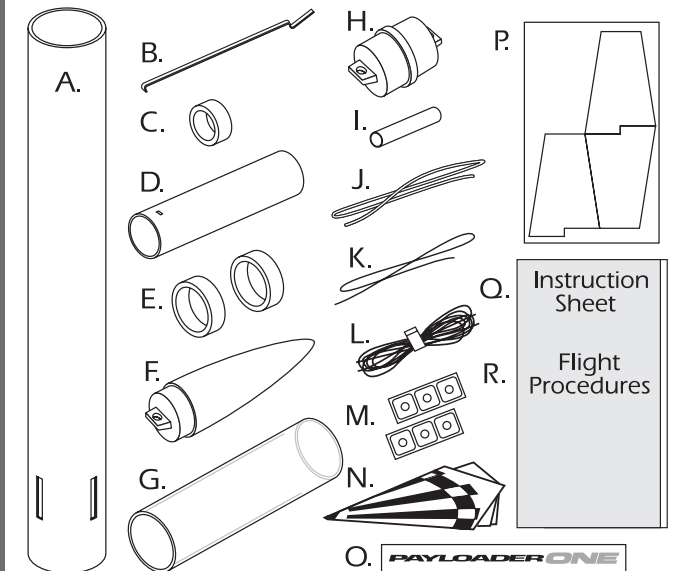
White Glue
Aliphatic Resin glues work best such as TITEBOND or ELMER'S CARPENTER'S WOOD GLUE - ELMER'S WHITE SCHOOL GLUE also works but dries slower.

Tape & Paint
Scotch Magic Tape or Paper Masking Tape, Spray Primer and Spray Paint.

BEFORE STARTING ASSEMBLY READ THROUGH THESE INSTRUCTIONS.
IT IS BEST TO TEST FIT ALL PARTS BEFORE APPLYING ANY GLUE.
READ AND FOLLOW THE NAR MODEL ROCKET SAFETY CODE.

| PARTS LIST | |
|---------------|-----------------------------------|
| A. 11312 | White Body Tube With Fin Slots |
| B. 49000 | Motor Clip |
| C. 14000 | Blue Thrust Ring |
| D. 10303S | Yellow Motor Mount Tube |
| E. 14050 | Red Centering Ring (2) |
| F. 20171 | Plastic Nose Cone |
| G. 28700 | Clear Plastic Payload Tube |
| H. 21081 | Q-PC-25B Tube Coupler |
| I. 10000 | Launch Lug |
| J. 50011 | 18 inch White Elastic Shock Cord |
| K. 50051 | 18 inch Yellow Kevlar* Shock Cord |
| L. 50100 | 3 - 26" Shroud Lines |
| M. 50101 | 2 strips of 3 Tyvek Gripper Tabs |
| N. 28107 | 14 inch Parachute |
| O. 1018-1030 | Self-Adhesive Decal |
| P. 33050 | Die-Cut Balsa Fin Set |
| Q. 1018-1010A | Instruction Sheet |
| R. 1018-1010B | Launch Procedures Sheet |

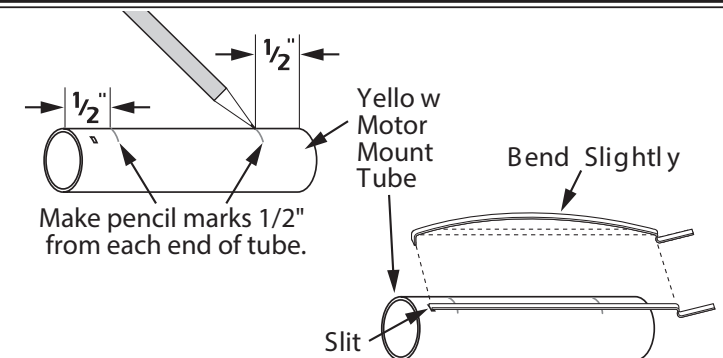
* Kevlar is a registered trademark of Dupont



Parts not to scale.

STEP 1

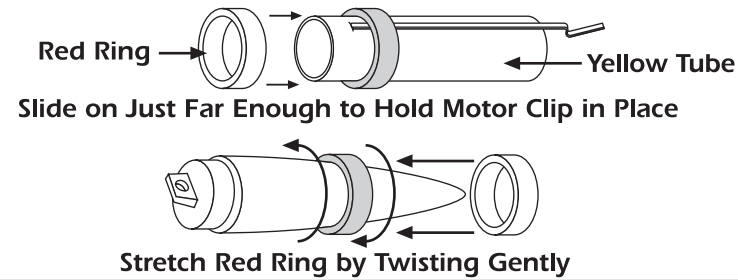
- A. Place the Yellow Motor Mount Tube up against the ruler provided above. Make two pencil marks on the tube 1/2 inch from each end as shown.



- B. Make a slight bend in the Motor Clip as shown. Insert the Motor Clip into the slit in the Yellow Motor Mount Tube.

STEP 2

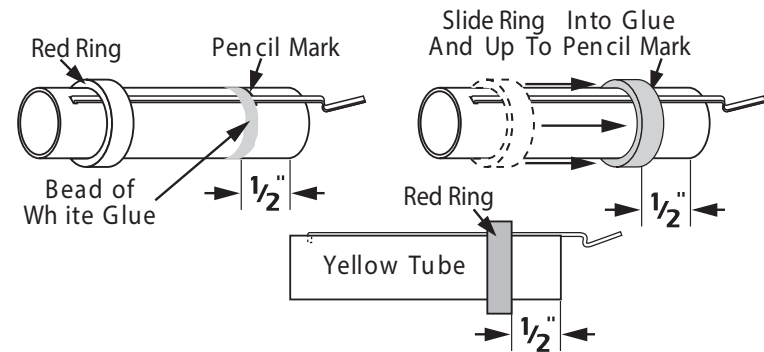
A. Test fit one of the Red Centering Rings onto the Yellow Motor Mount Tube. If it does not slide on easily, stretch the Red Ring by sliding it over the Nose Cone and gently twisting it back and forth a few times. Slide the Red Ring onto the Yellow Tube just far enough to hold the Motor Clip in place.



STEP 3

A. Apply a bead of white glue around the Yellow Motor Mount Tube on the inside of the pencil mark made in Step 1, one half inch from the end as shown.

B. Slide the Red Ring into the bead of glue and up to the pencil mark. The edge of the Red Ring must be 1/2" from end of the Yellow Motor Mount Tube. Wipe away any excess glue.

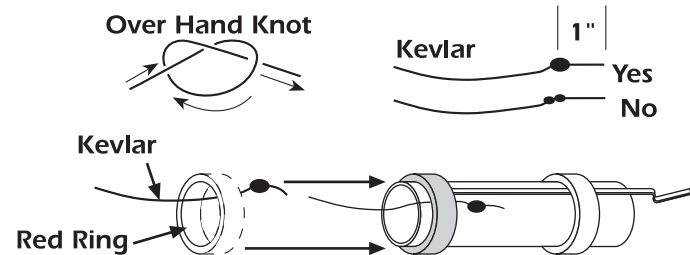


STEP 4

A. Tie two overhand knots 1 inch in from the end of the Kevlar Cord.

B. Pass the end of the Kevlar with the knot through the remaining Red Centering Ring.

C. Slide the Red Centering Ring with the Kevlar under it onto the Yellow Motor Mount Tube.

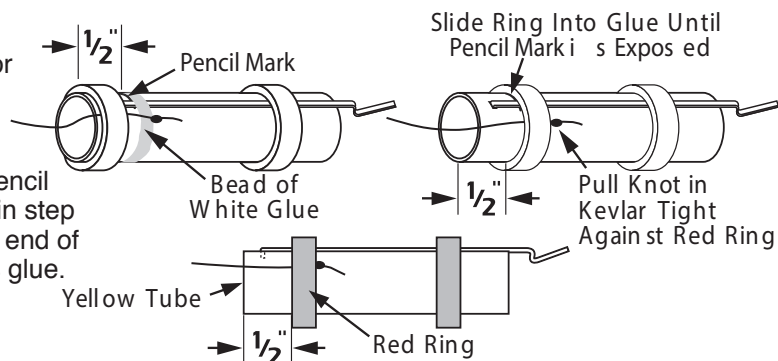


STEP 5

A. Apply a bead of white glue around the Yellow Motor Mount Tube on the inside of the pencil mark made in Step 1, one half inch from the end as shown.

B. Slide the Red Ring into the bead of glue until the pencil mark is exposed. If the Red Ring is tight, stretch it as in step 2 above. The edge of the Red Ring must be 1/2" from end of the Yellow Motor Mount Tube. Wipe away any excess glue.

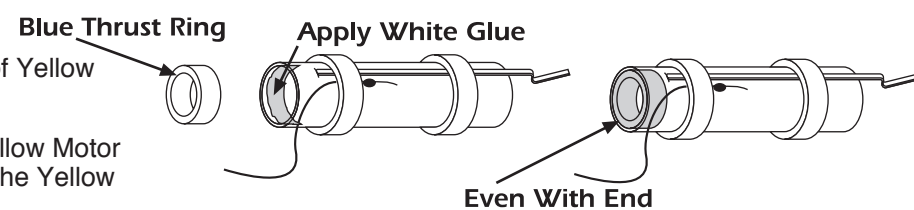
C. Pull the Yellow Kevlar Shock Cord up tight against the Red Centering Ring.



STEP 6

A. Apply white glue around inside edge of Yellow Motor Mount Tube as shown,

B. Insert the Blue Thrust Ring into the Yellow Motor Mount Tube so it is even with the end of the Yellow Motor Mount Tube.



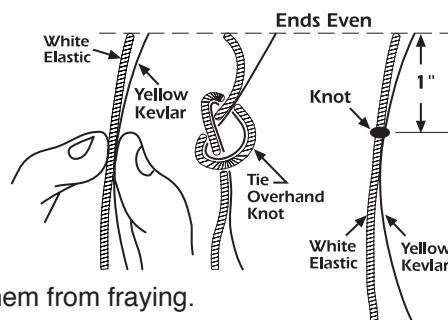
STEP 7

A. Hold the Yellow Kevlar Shock Cord and the White Elastic Shock Cord side by side. Pull one end of each cord so that they are even with each other. While holding the two cords together, tie a single parallel overhand knot approximately one inch in from the even ends as shown.

B. Gently pull on both cords to set the knot and prevent it from slipping.

C. Apply a small amount of white glue on the ends of both cords to prevent them from fraying.

NOTE: THIS IS A VERY IMPORTANT STEP. IF YOU TIE A DIFFERENT TYPE OF KNOT THE SHOCK CORDS MAY SEPARATE DURING FLIGHT.

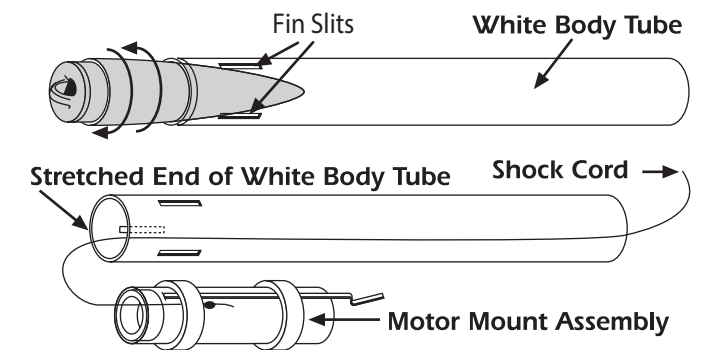


STEP 8

A. Stretch the end of the Body Tube that has the Fin Slits in it slightly by inserting the nose cone into the tube and gently twisting it back and forth a few times.

B. Hold the Body Tube with the stretched end facing up and "feed" the shock cord into the tube until the cord comes out the other end.

C. Grab the end of the shock cord and pull it all the way through the tube until the Motor Mount assembly that is attached to the other end pulls up against the tube.



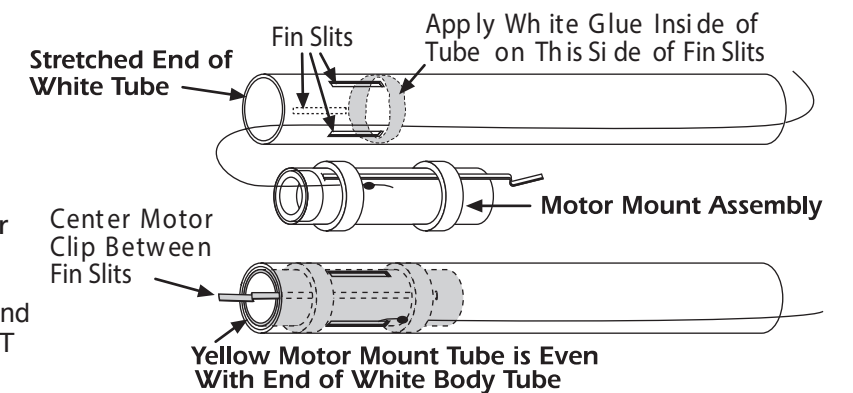
STEP 9

A. Hold the Motor Mount Assembly and the Body Tube in one hand.

B. Apply White Glue around the inside of the Body Tube just beyond the Fin Slits.

C. Align the Motor Mount Assembly so the Motor Clip is centered between two of the Fin Slits.

D. Immediately insert the Motor Mount Assembly and PUSH IT INTO THE BODY TUBE WITH ONE FAST & SMOOTH MOTION until the Yellow Motor Mount Tube is even with the end of the Body Tube.

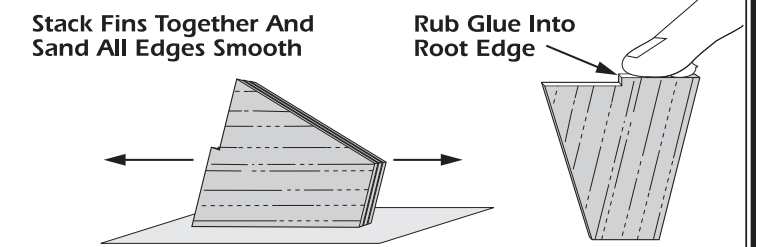


STEP 10

A. Carefully remove each of the three die-cut balsa fins from the sheet with a sharp hobby knife.

B. Stack the fins together and sand all edges smooth.

C. Rub a small line of white glue into the root edge of each fin and set aside to dry.

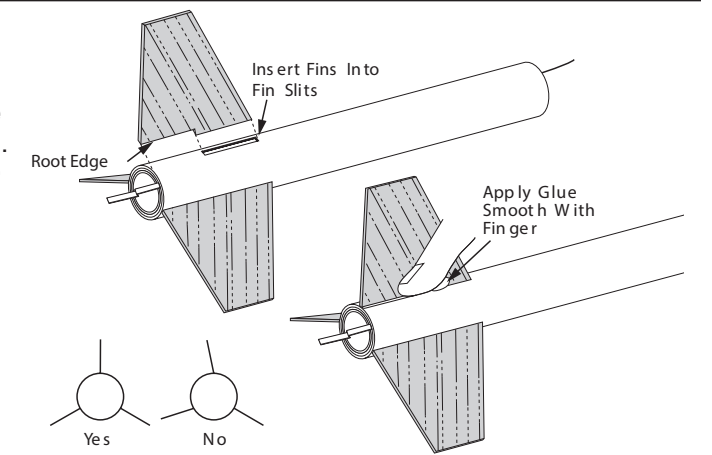


STEP 11

A. Apply a small line of white glue along the root edge of a fin and insert it into one of the fin slots on the body tube. Adjust the fin so that it projects straight away from the body tube as shown. Allow the glue to set for a few minutes before attempting to glue on the remaining fins. Repeat this step for the remaining two fins.

B. After the glue is completely dry apply a small bead of white glue to both sides of a fin-body tube joint. Smooth out the glue with your finger. Wipe excess glue off your finger onto a tissue or paper towel.

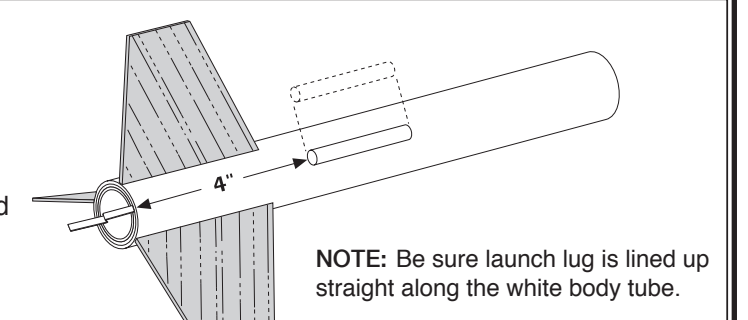
C. Repeat the above step for the remaining fin-body tube joints. Set aside to dry.



STEP 12

A. Make a pencil mark 4 inches from the rear of the rocket aligned with the Motor Clip as shown.

B. Apply white glue to the launch lug and place with one end even with the mark 4 inches from the rear of the rocket as shown.



NOTE: Be sure launch lug is lined up straight along the white body tube.