

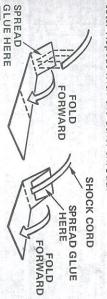
sert one end of the engine hook (part B) into the slit Cut a 1/8" long slit in the 2-3/4" long engine mount tube (part A), 1/4" from the end as shown. Inply glue to one side, and wrap it tightly around the hold-down strap from the pattern sheet (part C), apmiddle of the tube and engine hook as shown. _ position the hook along the tube. Cut out the



gine mount tube even with the rear end (the end with end of the hook as shown. (part E) to the front of the engine mount against the Avoid getting glue in the slot. Glue the other ring the overhanging hook) so the slot is over the hook. 2 Glue the split adapter ring (part D) to the en-



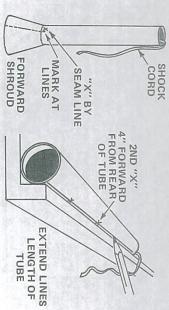
a small amount of glue to the tab area of one and press the tab into place under the opposite end of the each shroud by wrapping it around itself twice. Apply sets. Repeat with the other shroud cone. Clamp the joint with your fingers until the glue Cut carefully, Cut out both shrouds from the pattern sheet. following the line exactly. Preform



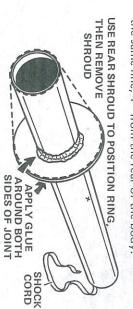
shown and fold over again. Clamp the unit together exposed part of section 2. Lay the shock cord as apply glue to the back of the first section and the on with your fingers until the glue sets. the shock cord (part F) into the glue. Fold over and 4 the dotted lines. Apply glue to section 1 and lay Cut out the shock cord mount. Pre-fold it



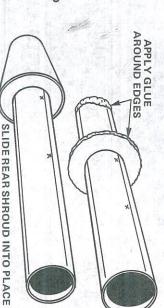
as the shock cord mount. Press the mount into the glue as shown and hold it until the glue sets. from the end. The glued area should be the same size tube (part G) at one end over an area about 1" to 2" CI Apply glue to the inside of the main body



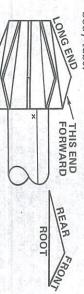
the lines straight on the body. Make a second "X" by the same line, 4" from the rear of the body. the edge of a drawer or door frame as a guide to keep body tube and shroud resting of the table as shown, mark the body at each line. Make an "X" by the lines the length of the tube through each mark. Use seam line mark. Remove the shroud and draw straight body and shroud vertical on the table top with both rear of the body (away from the shock cord). Holding lines) onto the body tube so its large end is at the Slide the forward shroud (the one with three



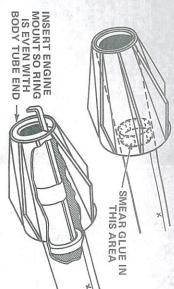
Punch out the large shroud ring from the diecut card sheet (part H). Slip the ring onto the rear end of the body tube. Slide the rear shroud (the one with 8 lines) onto the rear of the tube and slide the ring the joint between ring and tube. shroud and apply a line of glue around both sides of even with the end of the body tube. Remove the fit together perfectly with the small end of the shroud back into the end of the shroud until ring and shroud



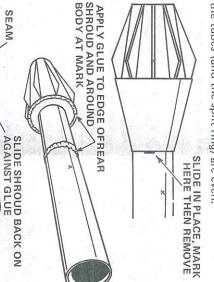
Apply glue to the outer edge of the ring and around the rear of the body tube. Slide the rear shroud all around and that end of shroud is even with end into place, making sure ring is seated inside shroud body tube



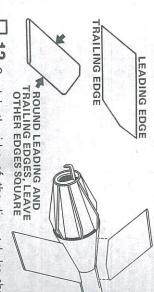
cut card. Compare with the drawing-note that the longer end of each fin is nearest the back end of the ment lines as shown. rear shroud. Glue the cooling fins in place on the align-9 Punch out the 8 "cooling fins" from the die-



gine mount unit, being careful to turn it so the engine hook will project from the tube. Push the engine mount in with one smooth motion until the ends of ■ 10 Smear glue around the inside of the rear of the body tube to cover an area about 2" to 2-1/2" the tubes (and the split ring) are even. from the end of the tube. Immediately insert the en-



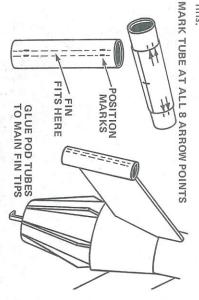
shroud forward and turn it so its seam line is on and into position against the rear shroud. Mark the main body at the front edge of the shroud. Slip the around and that the seam matches the "X" line perline marked "X". Apply a line of glue around the tectly. making sure it is seated against the rear shroud all the mark. Slide the forward shroud back into place, front end of the rear shroud and around the body at 11 Slide the forward shroud onto the body tube MATCH SEAM WITH "X" LINE



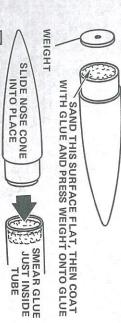
until the glue is completely dry. from the body tube. Do not lay the rocket on its fins glue the fins to shroud and body on the alignment the root edge of each fin and let dry. Position and Sand the leading and trailing edges of the fins round, easier. Carefully remove the main fins from the sheet lines. Adjust the fins so they project straight away leave the other edges square. Rub a line of glue into (part I) to smooth surfaces and to make part removal 12 Sand both sides of the die-cut balsa sheet



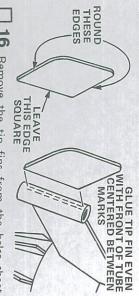
with the tube end and perfectly in line with the main sheet and sand all edges except the root edges until on the alignment lines, making sure they are even round. Glue the forward fins to the front 13 Remove the forward fins from the balsa of the body



other two pods. Glue the pod tubes to the alignment marks on the tube. edge of its fin. Make sure the fin is positioned on the with the front edge of each tube even with the front tern sheet. Wrap the guide around one pod tube (part J) and mark the tube at each point. Repeat with the 14 Cut out the pod marking guide from the patne main fins



nose cone and weight into place. Support the assembly, nose down, until the glue is dry. Glue the adapter (part N) to the other end of the tube. 1/8" to 1/4" from the end of the tube of the nose cone and press the nose the inside of one end of the forward body (part M), 15 Sand the back end of the main nose cone (part K) until flat. Apply a layer of glue to the back (part L) onto the glue. Apply a line of glue around one weight and insert



the pod tubes on the alignment marks. The front edge of each fin should be even with the front of its tube. Set the rocket on its nose while the glue dries. and round all edges except the root. Glue the fins to 16 Remove the tip fins from the balsa sheet



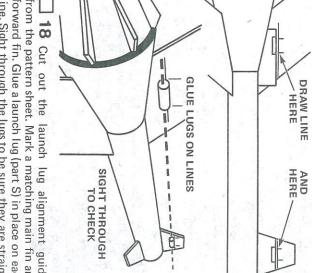
DISC

SCREW EYE PASS LOOP CENTERS AROUND SCREW EYE PULL LINES TIGHT

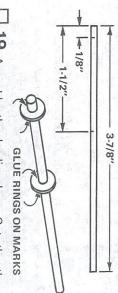
SIGHT DOWN TUBE TO MAKE SURE FORWARD FINS ARE IN LINE WITH MAIN FINS

17 Cut out the parachute (part O) on its edge s. Cut three 36" lengths of shroud line (part P).

draw lines tight against screw eye. Set knot with a drop of glue. screw eye (part R). Pass eye through loop ends and Attach line ends to top surface of parachute with tape discs (part Q) as shown. Pass shroud line loops through



and clear the shroud. forward fin. Glue a launch lug (part S) in place on each line. Sight through the lugs to be sure they are straight from the pattern sheet. Mark a matching main fin and 18 Cut out the launch lug alignment guides



■ 19 Assemble the landing legs. Cut the three dowels (part T) to a length of 3-7/8" each. Mark each dowel 1/8" and 1-1/2" from one end. Punch out the small rings from the die-cut sheet and glue the rings rings are straight on the dowels. to the dowels at the marks as shown. Make sure the



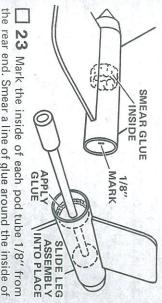
and 1-1/4" long. Wrap a strip around the end of each dowel. Test fit a launch lug over the tape; if it is too tight remove tape, a 1/16" at a time, until the lug fits smoothly on all three dowel ends. Smear glue over the tape and glue a lug in place on each dowel 20 Cut three strips of masking tape 3/8" wide



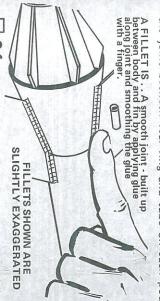
21 Glue the pod cones (part U) in place. Apply a line of glue just inside the forward end of each pod tube and slide the cones into place.



the hole. Re-insert the screw eye into the hole. adapter. 22 Insert the screw eye into the base of the Remove the screw eye and squirt glue into



a tube as far in as possible and slide a landing leg asthe joint between rear ring and tube sembly in until the rear ring is even with the mark. Rethe rear end. Smear a line of glue around the inside of peat with the other two pods. Apply a line of glue to on each pod.



and the body and shroud is especially important. Supbut smooth, reinforced joint between the main fins joint and smooth it out with your finger. A strong, the rocket horizontally, apply a line of glue to the port the rocket horizontally until the glue dries. 24 Apply a glue fillet to each fin joint. Holding



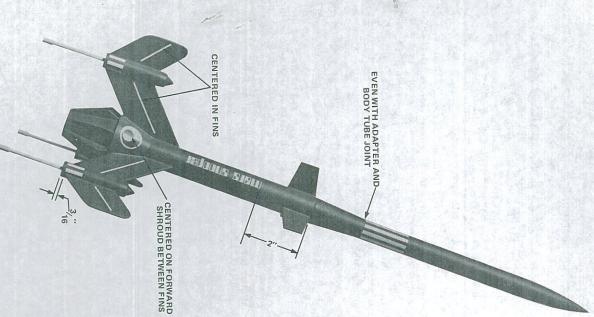
body along with shroud lines and shock cord. Slide main body. the adapter on the nose assembly into place in the screw eye. Fold the parachute and pack it into the

> the exposed wood surfaces. Sand lightly with extra filled and surfaces look and feel smooth. smooth. Apply two or more coats of sanding sealer to fine sandpaper between coats. Repeat until pores are **26** When all glue is completely dry, prepare the odel for painting. Sand all balsa surfaces until



base coat of white. Be sure to paint the landing legs and the inside rear of the pods white. When the white paint is completely dry, mask off the inside rear of the pods and the landing legs. Paint the entire rocket 27 For best results, give the entire rocket a spray (A) PUNCH HOLE IN TAPE AND SLIDE OVER DOWEL, PRESSING AGAINST END OF POD TUBE

INSERT AFTER WADDING



onto the model. Blot excess water away. For best rein lukewarm water for 10 seconds, and hold it until apply decals (part V). Cut out a decal section, dip sults, let the model dry overnight and apply a coat it uncurls. Slip the decal off the backing sheet and 28 When all paint is dry, remove the masking and

of clear spray to protect the decals.

covery wadding into body tube. COUNTDOWN CHECKLIST 14 Pack four squares of loosely crumpled re-

FOLD AND WRAP SHROUD LINES AROUND PARACHUTE

Roll 'chute tightly as shown and wrap shroud lines around it. If 'chute is too large, unroll and repack until it slides easily into rocket. A fit that is too tight may prevent parachute from ejecting properly. 13 Fold the parachute into a triangular shape

reliability, lightly dust 'chute with ordinary talcum actually ready to launch. For maximum parachute NOTE: DO NOT pack parachute until you powder, especially in cold weather. are

12 Pack shock cord neatly into rocket.

of body tube and shoulder of adapter with extra fine not be extremely loose. If it is too tight, sand inside sandpaper. separate easily from rocket body tube, but should Slide adapter into place. Adapter should

If adapter is too loose, add a wrapping of transparent tape or masking tape to the shoulder of the adapter.

directed in the engine instructions. Engines recomand C6-5. mended for use with this rocket are A8-3, B4-2, B6-4 ☐ 11 Select an engine and install an igniter as



latch securely over end of engine. 10 Insert engine into rocket. Engine hook must

9 Disarm the launch panel--remove safety key.

clips and attach them to the igniter. rocket slides freely on launch rod. Clean the micro-00 Place rocket on launch pad, making sure

trackers. zed persons in the recovery area. Check for low flying aircraft and unauthor-Clear the launch area, alert recovery crew and

0 Arm the launch panel--insert safety key.

5 4 3-2-1 LAUNCH !!

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DCB

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MISFIRE PROCEDURE

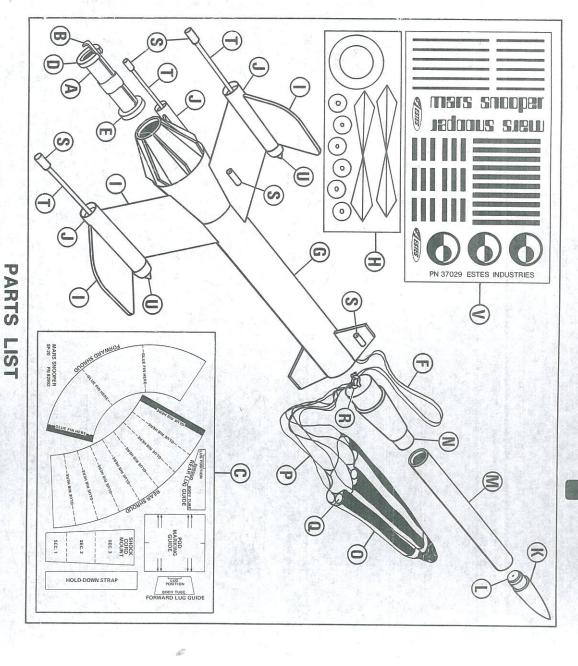
caused by a failure to install it correctly. Disarm the Occasionally the igniter will heat and burn in two without igniting the engine. This is almost always residue from the nozzle, and install a new igniter. Fol launch panel, remove the model, clean the igniter low the launching procedure again.



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PENROSE, COLO. 81240

KIT NO. 1220



Die-Cut Balsa Fin Sheet type Split Adapter Ring type Engine Hook type EH-2... **Engine Mount Tube type BT** Shock Cord type SC-3 Adapter Ring type AR-2050 Pattern Sheet type SP-20 . . BF-20 AR-2050S (2-3/4" long) 32205 long). 30304 20J 82902 30054 80425 30326 30372 85744 35025 30164 J SRO POZ SC w U - 0

Parachute type PK-18A . . . Adapter type TA-2050

. 85566

30322 38280

70006

108" Shroud Line Cord type

SLT-108....

ing sealer. single edge razor blade), masking tape, paint, and sandwill need scissors, white glue, a sharp mo In addition to the parts included in del knife (or this kit you

Pod Tubes type BT-5BJ (2" long).

Nose Cone type BNC-20N

70236 IMPORTANT: Decal Sheet type KD-20

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- w

Pod Nose Cones type BNC-5BA...

Wood Dowels type WD-1DE

(4-1/2" long)

... 85903

38176 38252 38406 38239

70210

(3/8" long)

Screw Eye type SE-2A...... Launch Lugs type LL-2AM

the entire instructions before beginning to assemble your rocket. Check off each step as you complete it. Check to be sure your kit is complete, then read