

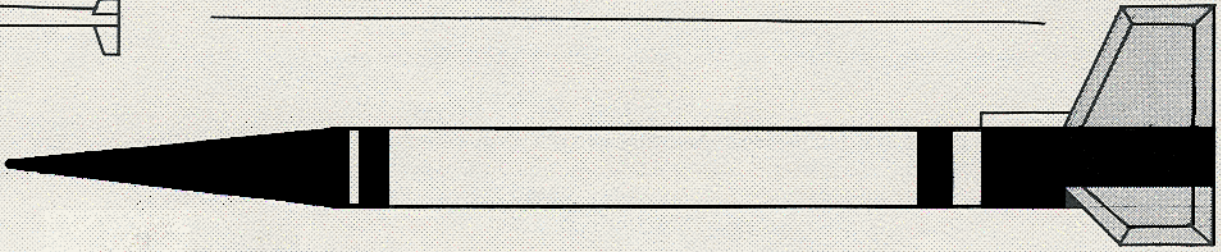
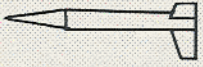
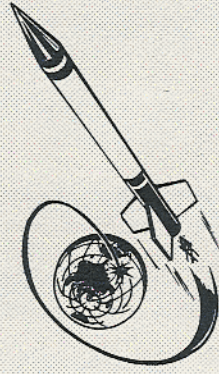
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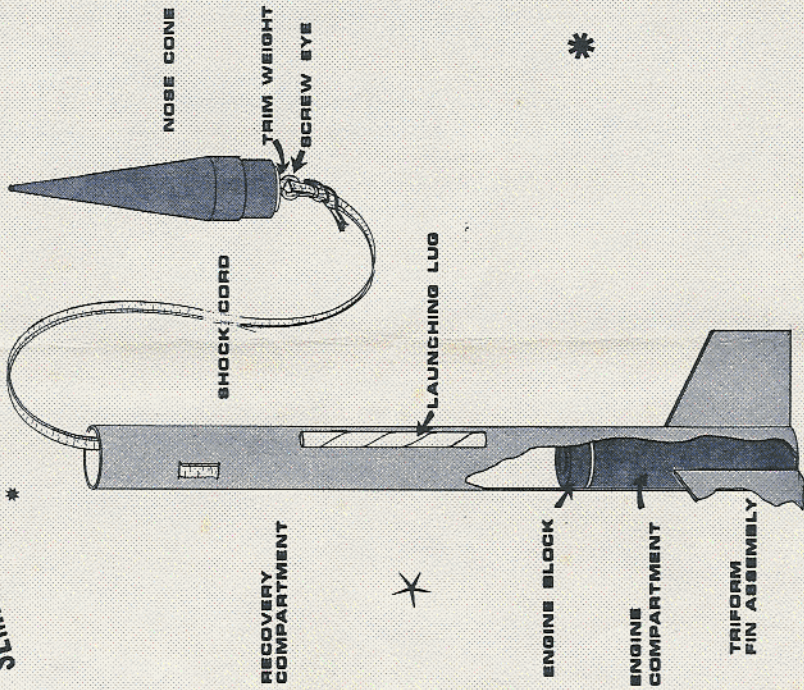
A SEMI-SCALE KIT BY MRI
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SEE REVERSE FOR
INSTRUCTIONS

MODEL ROCKET INDUSTRIES

309 STATE STREET

MADISON, WISCONSIN 53703

INSTRUCTIONS

1 FIT NOSE CONE INTO BODY TUBE. NOSE CONE SHOULD FIT SNUG, BUT NOT TIGHT ENOUGH TO INTERFERE WITH EJECTION DURING THE RECOVERY PHASE. IF NOSE CONE BINDS, THEN LIGHTLY SAND THE TENON (THAT PORTION OF THE NOSE CONE WHICH EXTENDS INTO BODY TUBE) UNTIL A SMOOTH EVEN FIT IS OBTAINED. TURN SCREW EYE THROUGH LEAD WEIGHT AND INTO CENTER OF NOSE CONE BASE. REMOVE SCREW EYE. APPLY GLUE IN AND AROUND THE HOLE. REPLACE SCREW EYE. (FIGURE A).

FIG. A

2 MEASURE DOWN ONE INCH (25 MM) FROM END OF BODY TUBE. CUT A SLIT CROSSWISE SLIGHTLY OVER ONE QUARTER INCH (6 MM) IN LENGTH. CUT A SECOND SLIT ABOUT ONE HALF INCH (12 MM) DIRECTLY BELOW THE FIRST ONE. PUSH END OF SHOCK CORD DOWN THROUGH BOTTOM SLIT. REACH INSIDE WITH TWEEZERS AND PULL THE CORD THROUGH UNTIL ABOUT ONE INCH (25 MM) OF SHOCK CORD IS LEFT OUTSIDE OF BODY TUBE. TUCK SHORT END OF CORD DOWN INTO FRONT SLIT. APPLY GLUE UNDER LOOP OF SHOCK CORD ON OUTSIDE OF BODY. PULL LONG END OF SHOCK CORD UNTIL LOOP LIES FLAT AGAINST BODY. COAT WITH GLUE.

FIG. B

3 THREAD LOOSE END OF SHOCK CORD THROUGH SCREW EYE AND SECURE WITH SEVERAL OVERHAND KNOTS.

4 APPLY A LIBERAL RING OF GLUE INSIDE AFT END OF BODY TUBE AND INSERT ENGINE BLOCK. USING THE ENGINE COMPARTMENT AS A PLUNGER AND A GUIDE, PUSH ENGINE BLOCK FORWARD WITH COMPARTMENT UNTIL COMPARTMENT IS FLUSH WITH END OF BODY TUBE. BACK COMPARTMENT HALFWAY OUT, APPLY GLUE TO ITS SURFACE AND RETURN TO ORIGINAL POSITION.

FIG. C

5 SAND OUTER SURFACE OF BODY TUBE LIGHTLY TO PREPARE IT FOR FINISHING. CUT OUT FINS FROM FIN PATTERN SHEET AND SAND LEADING AND TRAILING EDGES. DO NOT SAND THE ROOT EDGE (THAT PART OF THE FIN WHICH IS TO BE GLUED TO BODY TUBE). WRAP FIN SPACING GUIDE AROUND AFT END OF BODY TUBE AND MARK THE TUBE AT POINTS INDICATED ON THE GUIDE. CONNECT UPPER AND LOWER MARKS. THESE PARALLEL LINES ARE USED TO POSITION FINS. GLUE FINS ALONG THESE LINES MAKING SURE EACH FIN IS PARALLEL TO THE BODY TUBE AND PROJECTING STRAIGHT AWAY FROM IT. ALLOW TO DRY AND APPLY FILLETS ALONG BOTH SIDES OF EACH FIN.

FIG. D

FIG. E

6 GLUE LAUNCHING LUG ABOUT HALFWAY UP THE BODY TUBE SO THAT IT IS NOT IN LINE WITH ANY OF THE FINS. THE LUG MUST LIE PARALLEL TO BODY TUBE. FOR ADDITIONAL STRENGTH, ADD A FILLET OF GLUE ALONG EACH SIDE OF LUG.

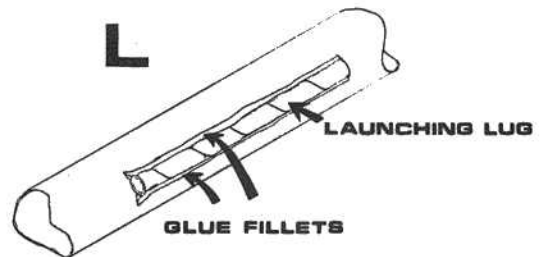
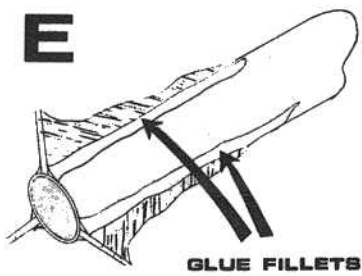
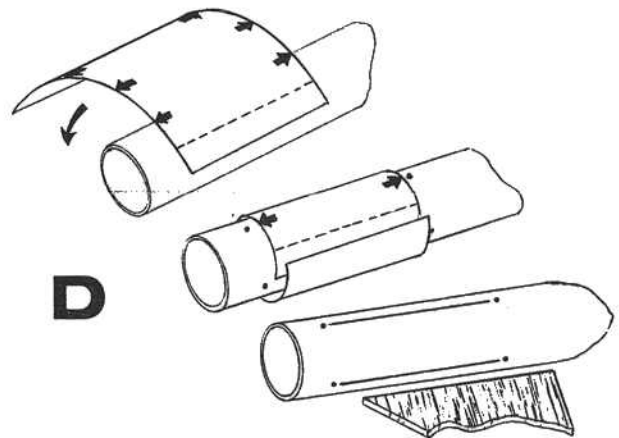
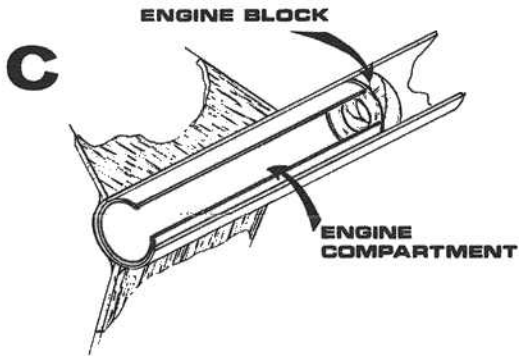
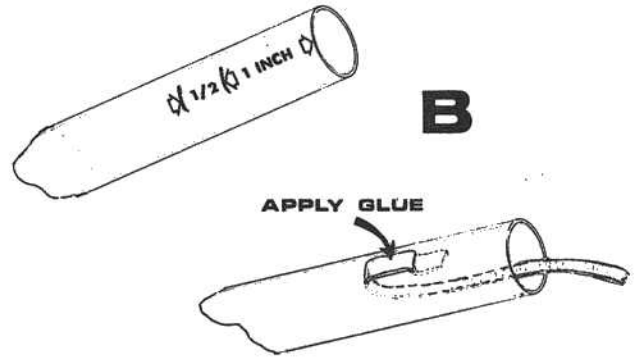
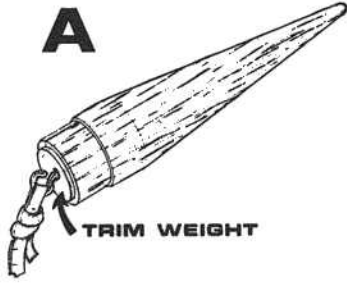
FIG. L

7 SAND OUTER SURFACE OF NOSE CONE AND BODY TUBE LIGHTLY WITH EMERY CLOTH. REPEAT UNTIL A SMOOTH FINISH IS OBTAINED. USE ANY COLOR OR COMBINATION OF COLORS TO FINISH YOUR MODEL. FOR EASIER TRACKING, WE SUGGEST THAT YOU USE COLORS WHICH WILL BE MOST VISIBLE AGAINST THE SKY.

ADDITIONAL NOTES.....

RECOVERY WADDING.....

THE RECOVERY WADDING IS NECESSARY TO PROTECT YOUR RECOVERY DEVICES FROM HOT ENGINE GASES DURING EJECTION. WADDING MUST BE PLACED IN THE BODY TUBE AND PUSHED DOWN UNTIL IT COMES IN CONTACT WITH THE ENGINE BLOCK.



PARACHUTE INSTRUCTIONS

LAY THE PARACHUTE OUT FACE DOWN ON A FLAT SURFACE, CUT OFF EXCESS PLASTIC OUTSIDE OF OCTAGONAL BORDER. ATTACH ONE SHROUD LINE TO EACH OF THE EIGHT CORNERS OF CHUTE BY PRESSING A TAPE DISC OVER A LOOP OF SHROUD LINE AND ONTO OVAL GUIDE AT EACH CORNER OF CHUTE. (SEE ILLUSTRATION).

GATHER FREE ENDS OF SHROUD LINES AND TIE THEM TOGETHER WITH THE KNOT ABOUT 50MM (TWO INCHES) FROM END. THREAD FOUR OF THE LINES THROUGH EYE IN SNAP SWIVEL, NOW TIE ALL EIGHT LINES TOGETHER WITH A SQUARE KNOT TO SECURE SNAP SWIVEL. ATTACH SNAP SWIVEL TO SCREW EYE. PLACE ABOUT ONE SQUARE INCH OF RECOVERY WADDING IN BODY TUBE AND PUSH UNTIL IT COMES IN CONTACT WITH THE ENGINE BLOCK.

HOLD PARACHUTE IN THE CENTER ALLOWING ROCKET TO HANG FREE, COLLAPSE THE CHUTE SO IT RESEMBLES A FOLDED UMBRELLA (SEE FIGURE P). FOLD COLLAPSED PARACHUTE INTO THIRDS AND PLACE IT IN RECOVERY COMPARTMENT. LAY SHROUD LINES AND SHOCK CORD LOOSELY ON TOP OF CHUTE. COMPLETE ASSEMBLY OF YOUR KIT BY POSITIONING THE NOSE CONE INTO BODY TUBE. YOUR MODEL IS NOW READY FOR LAUNCHING.

HINT..... SPRINKLE TALCUM POWDER OVER CHUTE BEFORE COLLAPSING AND FOLDING IT. THIS WILL KEEP PLASTIC SURFACES FROM ADHERING TO EACH OTHER WHEN PACKED IN TUBE.

NCP

