MODEL PRODUCTS
126 GROESBECK HIGHWAY
MOUNT CLEMENS, MICHIGAN 48043

LUNAR PATROL

RECOMMENDED TOOLS FOR ROCKET BUILDING

- modeling knife
- scissors
- extra strong white glue
- ball point pen or pencil
- fine grit sandpaper
- paint, in desired colors
- wood sealer

The LUNAR PATROL is a rocket that gives a more exciting flight than other rockets. The gliders have been carefully developed and tested so that they will achieve a smooth, efficient flight. Watch the gliders as they soar and study the wind effect on them.

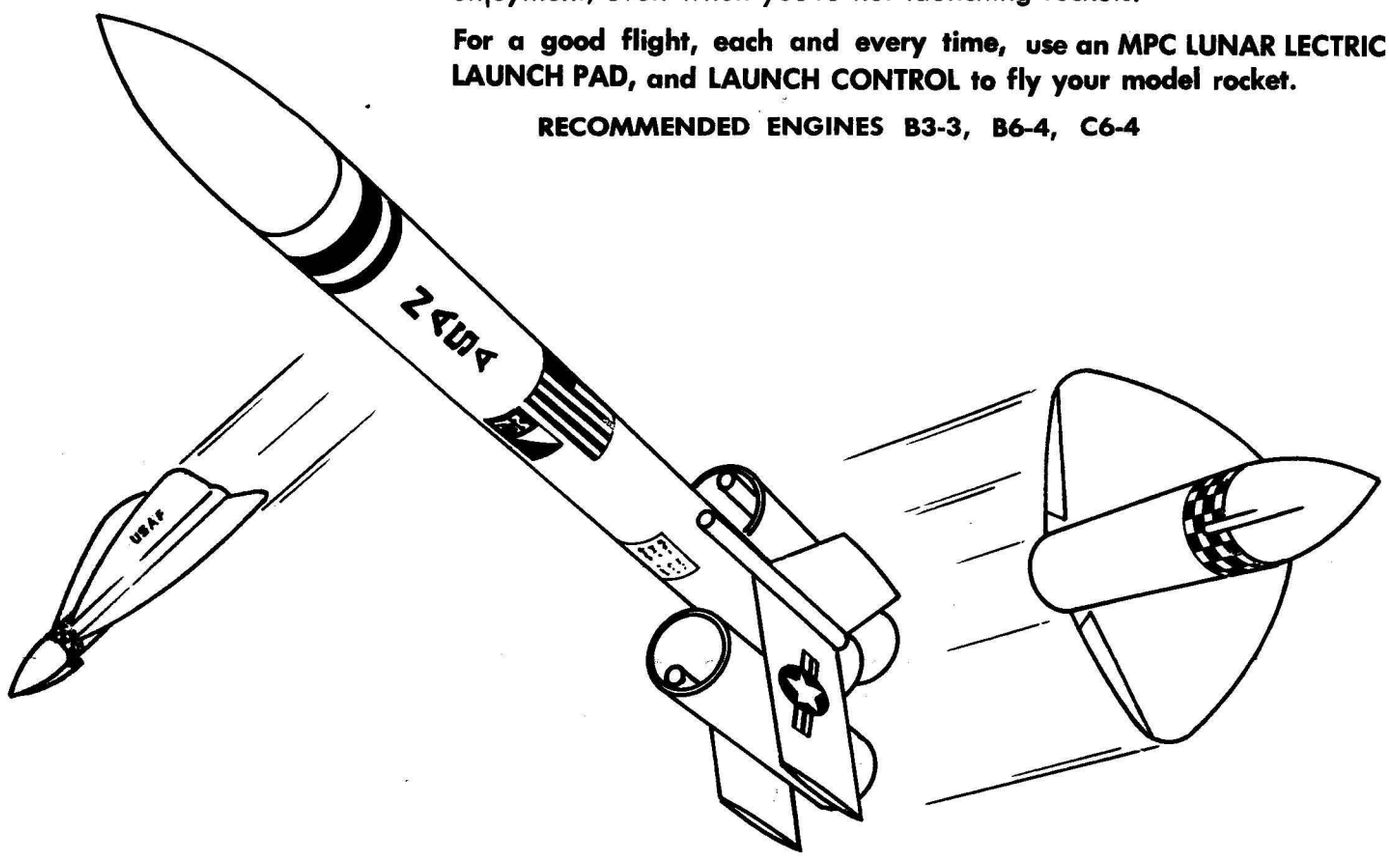
Be sure all measurements are exact and all parts are smooth. A perfect fit on all these parts is essential.

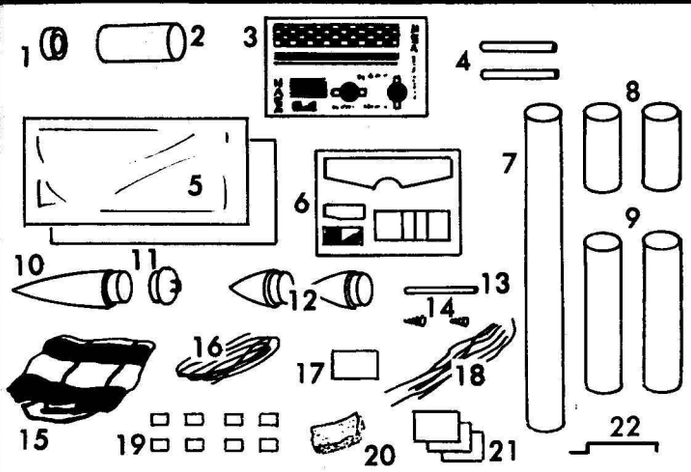
Before you begin building, look over the instruction sheet carefully. Following the procedure given, test fit parts together without gluing. This way you will be more familiar with the location of parts when it becomes time to use glue. You should have no trouble assembling your kit if the instructions are followed properly. The parts list will acquaint you with the pieces in the kit.

This rocket has been designed and developed to give you a straight, high flight if the instructions are followed properly. The exciting and educational sport of model rocketry has grown into a full scale national activity, and will continue to grow every time you fly your rocket safely. Formation of a rocket club in your area will provide you with hours of enjoyment, even when you're not launching rockets.

For a good flight, each and every time, use an MPC LUNAR LECTRIC LAUNCH PAD, and LAUNCH CONTROL to fly your model rocket.

RECOMMENDED ENGINES B3-3, B6-4, C6-4

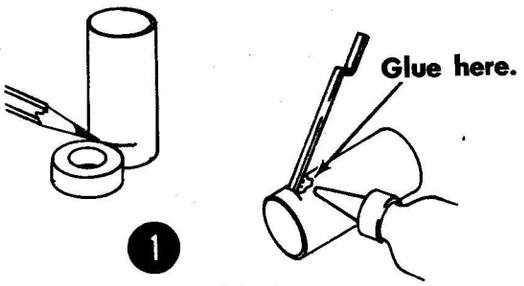




PARTS LIST

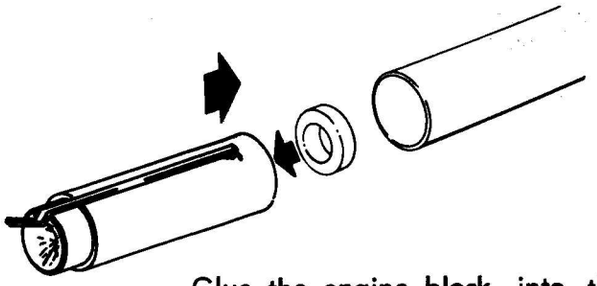
1 ENGINE BLOCK
2 ENGINE COMPARTMENT
3 DECALS
4 LAUNCHING LUGS
5 FIN SHEETS
6 FIN GUIDE
7 12" BODY TUBE
8 3" SIDE TUBES
9 6" GLIDER TUBES
10 MAIN NOSE CONE
11 NOSE CONE PLUG
12 GLIDER NOSE CONES
13 DOWEL
14 NOSE CONE WEIGHTS
15 PARACHUTE
16 CORD
17 SHOCK MOUNT
18 SHROUDS
19 SHROUD TABS
20 WADDING
21 ADDRESS LABELS
22 ENGINE CLIP

MAIN ROCKET



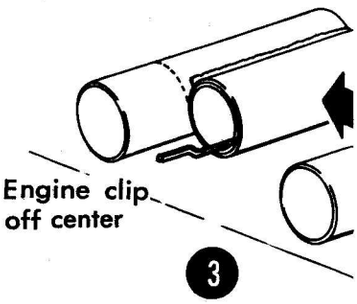
1

Place an engine block against engine compartment, and mark with a pencil as shown. Apply glue inside this end of engine compartment, and insert engine block. Cut slit on the pencil mark, and insert engine clip.



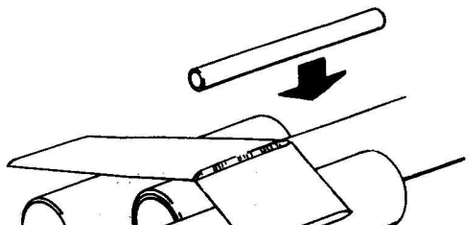
2

Glue the engine block into the engine compartment so that it is flush with the end, and let dry. Put some glue on your finger, and spread it around up inside the 12" body tube. Insert the engine compartment, by pushing hard until the end without the block is flush with the bottom of body tube. The use of the engine in the compartment will keep the tubes from being crushed. If you have to use a new engine, be sure to wipe all the glue off.



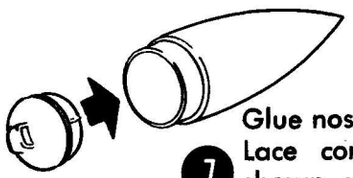
3

Place the body tub
face and glue the
side of it, so that 1"
the end of the bod



6

Cut a notch down the middle of the stabilizer fins, on the side opposite the engine clip, and glue one of the launch lugs in the notch.

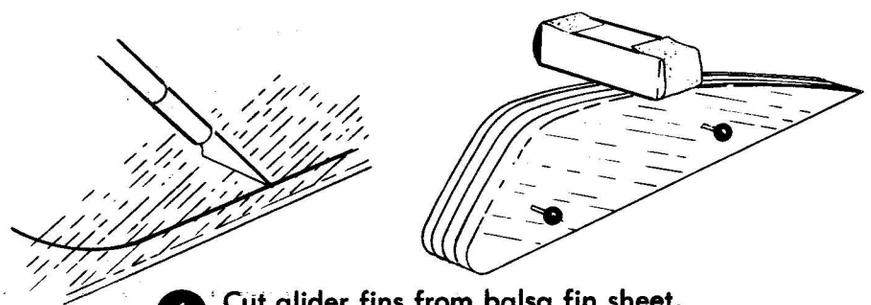


7

Glue nose cone plug into
Lace cord thru shock
shown, and glue shock m
body tube about 1" dov
cord to the nose cone pl

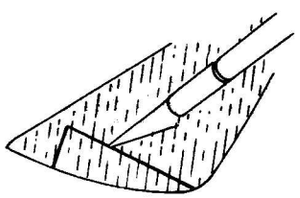
Use styrene cement to ho
into the nose cone.

GLIDERS



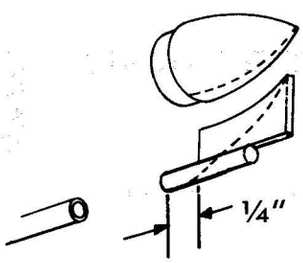
1

Cut glider fins from balsa fin sheet, pin together, and sand as shown in step 3. Cut ELEVON from wing.



2

Wrap the WING/
around the glider
mark the tube as
book for a guide,
tween marks.



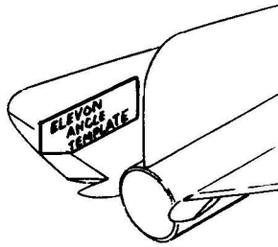
4

Cut launch lug dowel in half.
Cut piece from fin sheet for glider launch lug dowel and glue to dowel. Then glue this assembly to the glider nose cone. This piece may be cut and sanded on dotted line as shown for better streamlining.

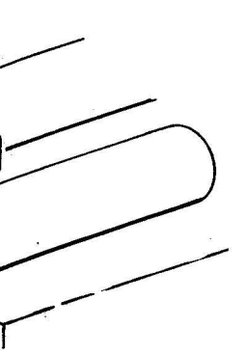
NOTE: For added stability, cut a ½" x 1" piece of paper (a piece of this instruction sheet works fine) and glue it over the dowel to the nose cone as shown.

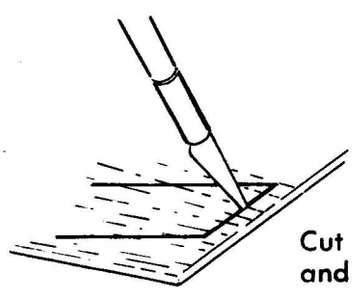
Glue ELEVONS back on wings, using the ELEVON ANGLE TEMPLATE to obtain the proper angle. The angle may be changed after test flights by bending slightly.

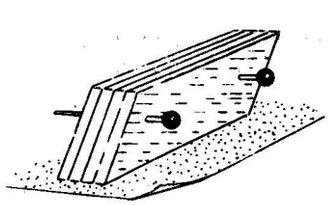
5

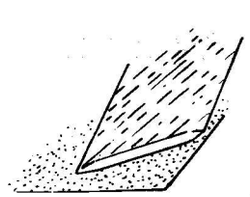


e on a flat sur-
" tubes on each
extends beyond
tube.

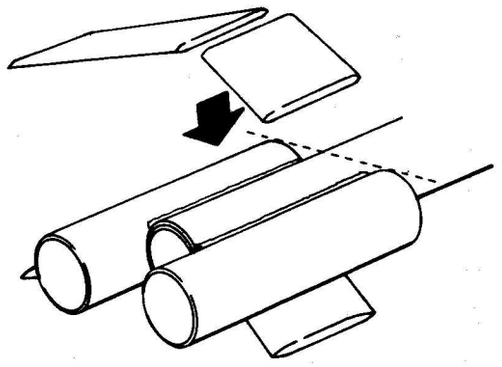






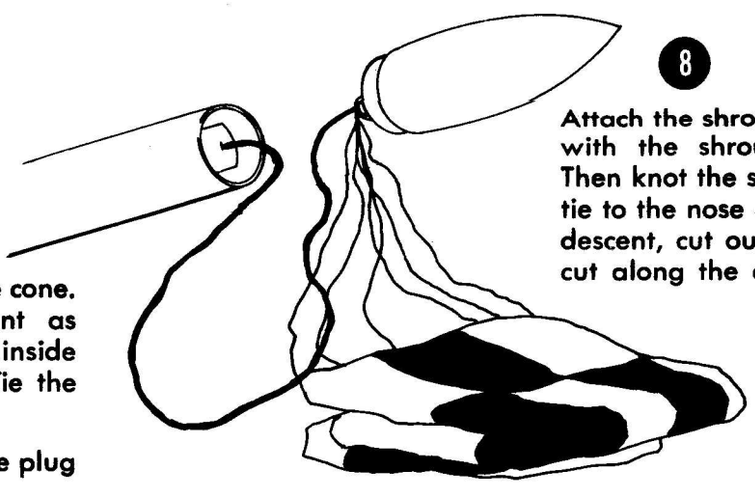


4 Cut stabilizer fins from balsa sheet and pin together as shown. Sand so that they are all exactly the same size. Sand the surfaces smooth and taper the edges. Do not sand the edges that are to be glued together.

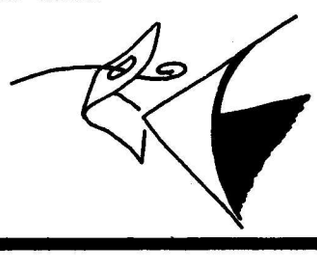


5 Glue the stabilizer fins to the body tube, and side tubes as shown. The point in the center should be even with the forward edges of the side tubes.

nose cone.
mount as
ount inside
n. Tie the
g.
d the plug



8 Attach the shrouds to the parachute with the shroud tabs as shown. Then knot the shrouds together and tie to the nose cone plug. For faster descent, cut out center of chute, or cut along the circular lines.



RUDDER guide
body tube and
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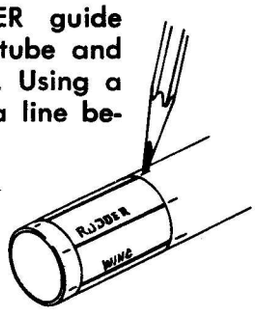
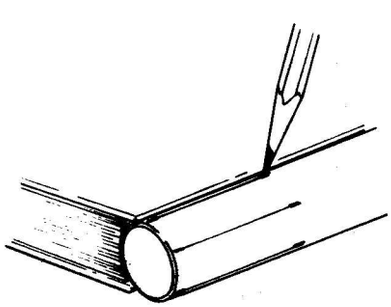
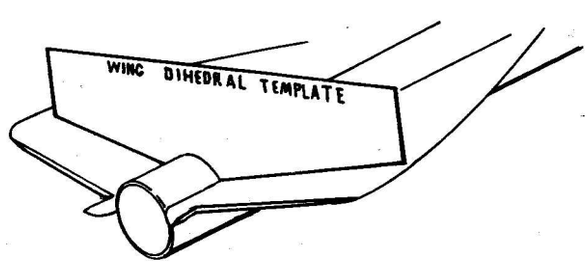
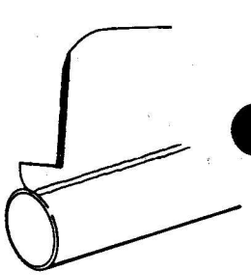
raw a line be-

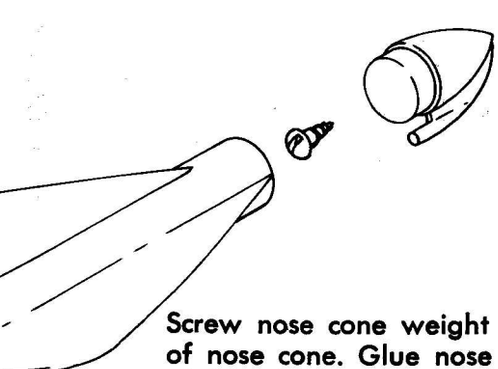




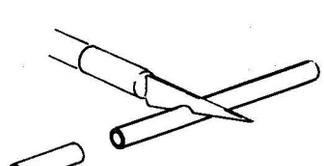




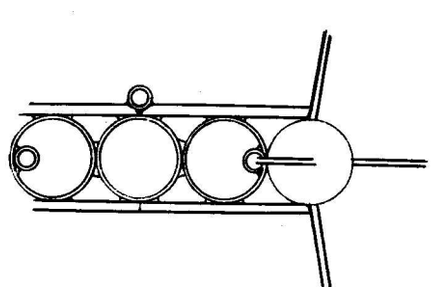
3 Glue one wing on tube, and let dry. Glue the other to tube using the WING DIHEDRAL TEMPLATE to obtain the proper angle as shown. Glue rudder to tube, on marks, between wings. Be sure it stands straight.



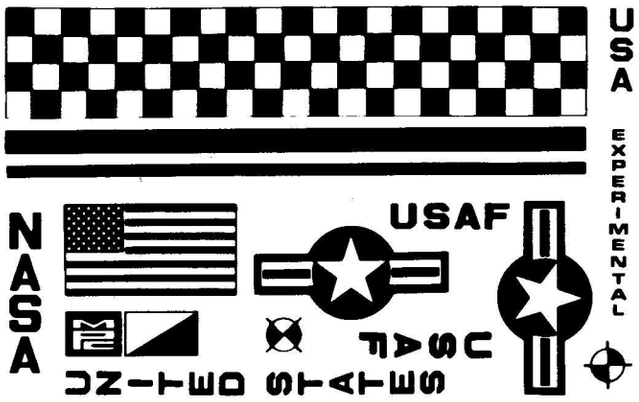
Screw nose cone weight into back of nose cone. Glue nose cone into glider tube, so that it is exactly opposite rudder.



6 Cut two ½" pieces from the remaining launch lug, and glue them into the side tubes, on the forward end. Use the glider for proper positioning as shown. Sand the edges of the stabilizer fins on an angle, so the glider will fit snug without binding.



DECALS

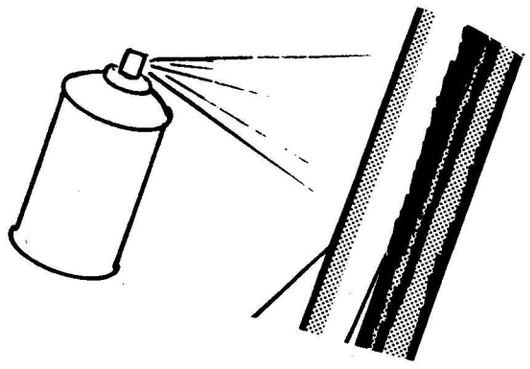


The custom decal arrangement shown is only a suggestion, many other combinations are possible.

To apply the decals, cut apart each individual design, and dip it in water for a few minutes. Slide it off the paper backing as you apply it to the model. Before the decals dry, smooth out any bubbles with a damp cloth.

This decal sheet has a clear coat of lacquer over its entire surface. For best results cut the decal apart as close to the designs as possible.

PAINTING



For best flight performance and appearance your rocket should have a smooth, hard finish. The cardboard and balsa parts should have several coats of sealer, sanding lightly between each coat. When painting, if a brush is used, sand carefully after each coat. If a spray can is used, apply several light coats to avoid runs. Bright colors are best for easy spotting and recovery.

Paint the gliders two different colors so that you can watch them individually to make changes for better flight performance.

LAUNCHING INSTRUCTIONS

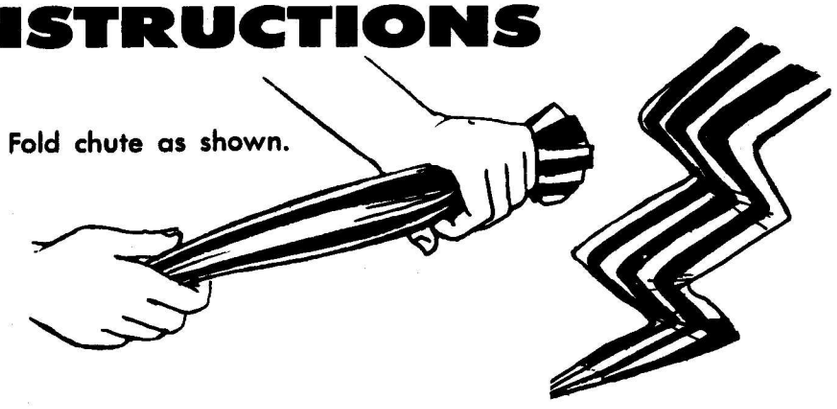
Pack flameproof wadding into the body tube from the top, pushing it down towards the engine. Fold the parachute carefully and pack it on top of the wadding. A small amount of talcum powder will keep the chute from sticking together. Pack the shroud lines and cord on top of chute and insert the nose cone assembly.

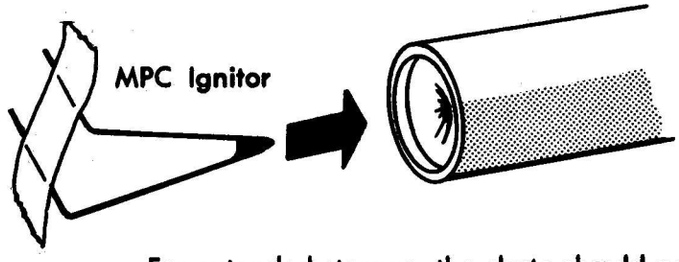
Use an MPC Ignitor or bend a short piece of nichrome wire and insert in engine. Hold wire in place with a piece of tape. Insert the engine in engine compartment, using the engine clip to hold it in place.

Now Follow Procedure

Listed On Countdown Card

For a good flight, each and every time, use an MPC LUNAR LECTRIC LAUNCH PAD, and LAUNCH CONTROL to fly your model rocket.





For extended storage, the chute should not be left folded.

In the event that engines are not available in your area, take advantage of our three engine package by sending $1.25 to MODEL PRODUCTS CORP., 126 Groesbeck, Mt. Clemens, Michigan 48043.

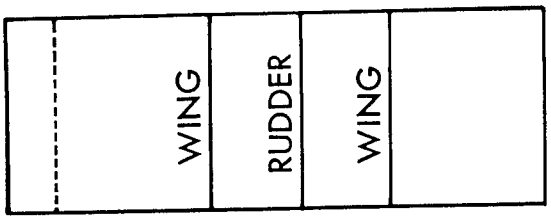
If under 13 years of age, your order must be accompanied with a note from parent or guardian.

WING DIHEDRAL TEMPLATE

R-215

LUNAR PATROL

ELEVON ANGLE TEMPLATE



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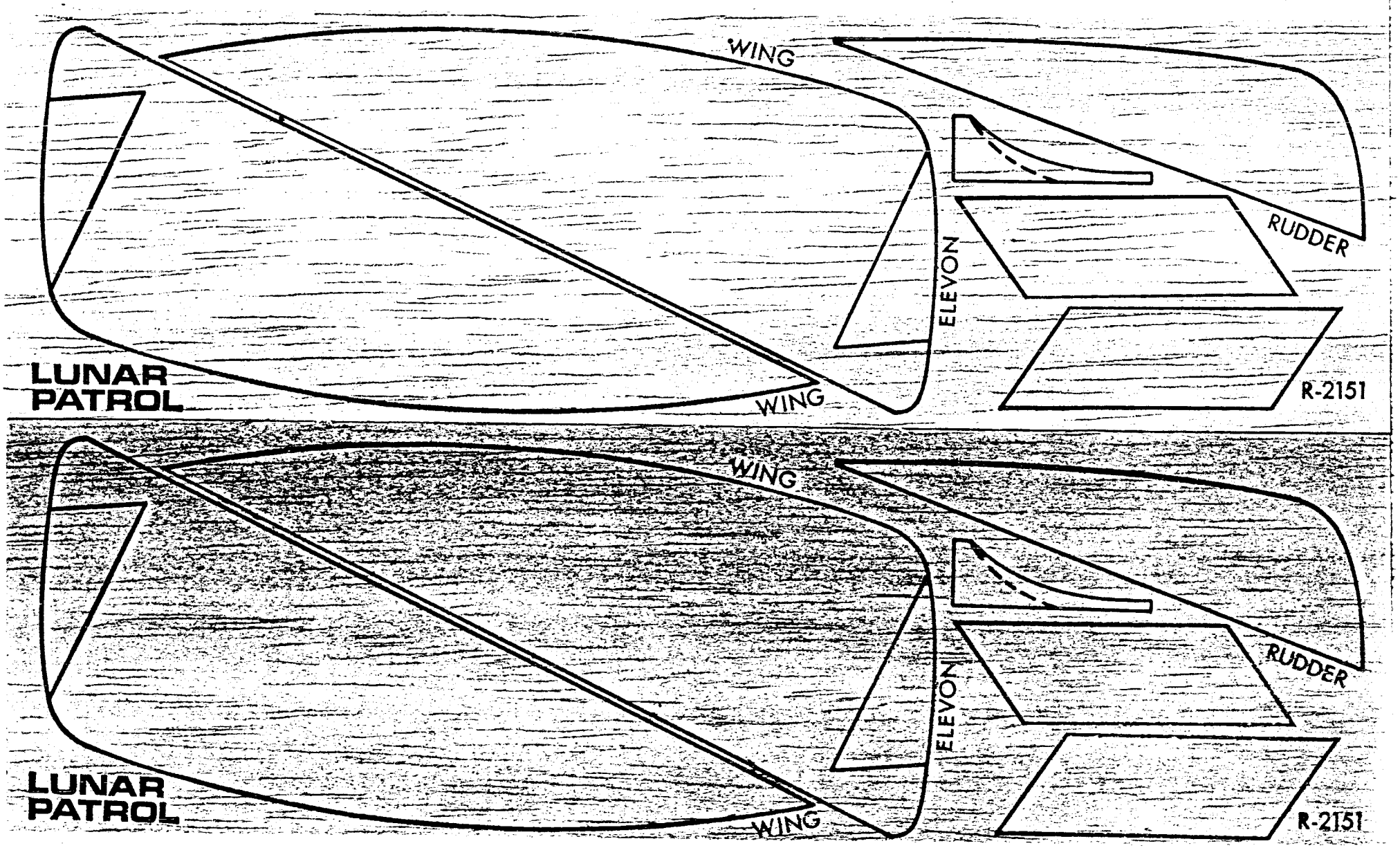
WING
RUDDER
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R-2151

USA

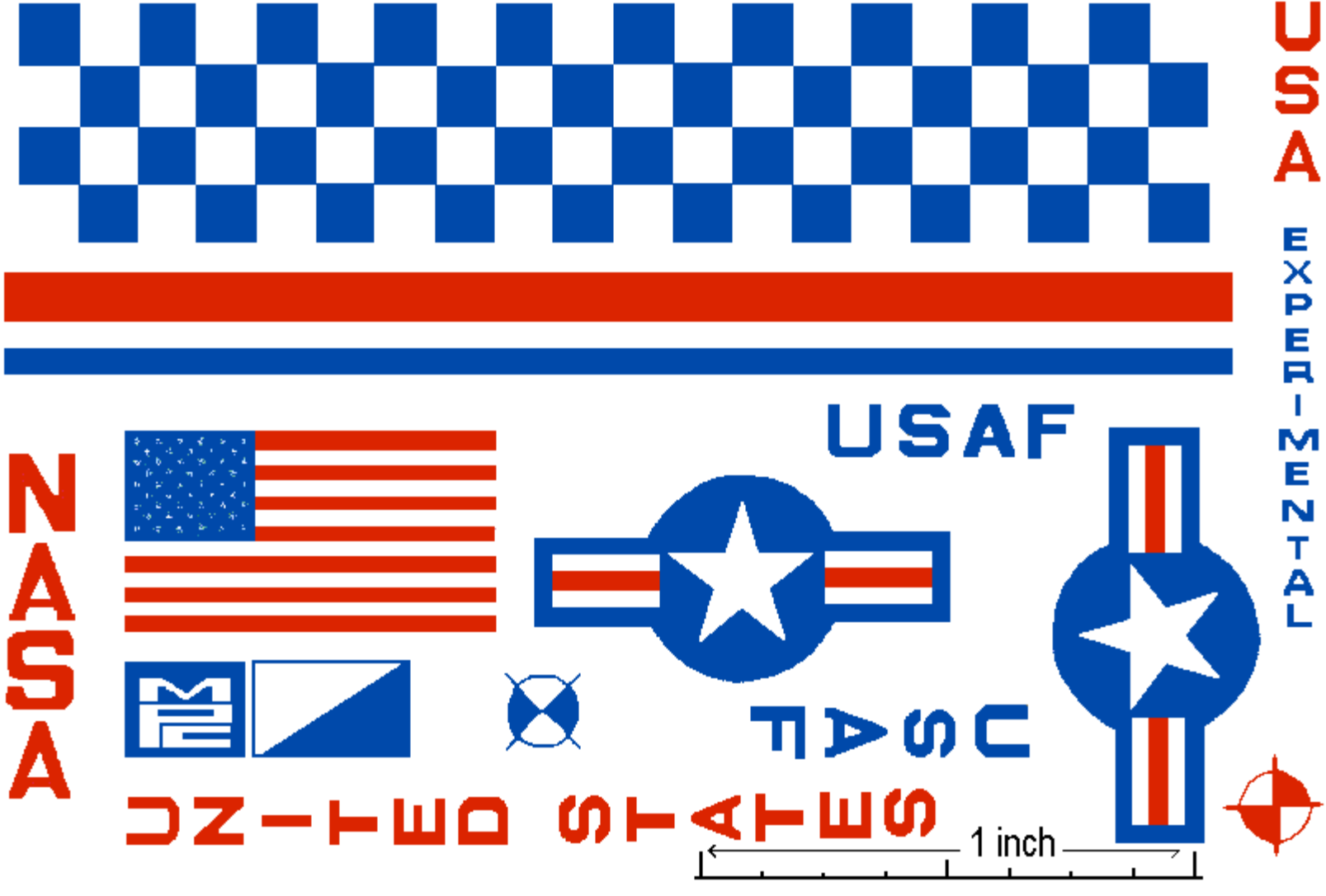
EXPERIMENTAL

NASA

USAF

NASA

MPC R-215 Lunar Patrol



LUNAR PATROL

FLYING

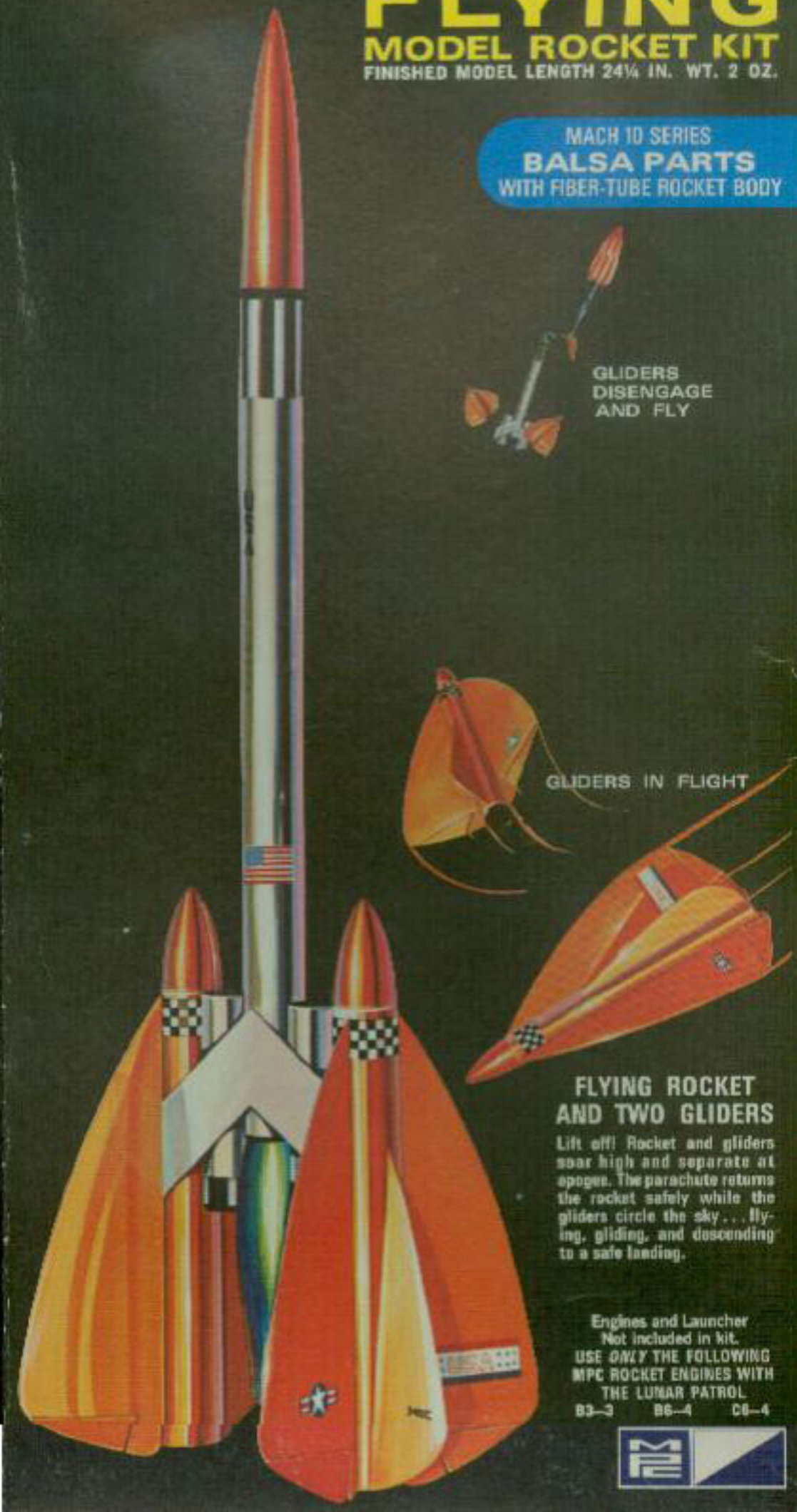
MODEL ROCKET KIT

FINISHED MODEL LENGTH 24¼ IN. WT. 2 OZ.

MACH 10 SERIES

BALSA PARTS

WITH FIBER-TUBE ROCKET BODY



GLIDERS DISENGAGE AND FLY

GLIDERS IN FLIGHT

FLYING ROCKET AND TWO GLIDERS

Lift off! Rocket and gliders soar high and separate at apogee. The parachute returns the rocket safely while the gliders circle the sky . . . flying, gliding, and descending to a safe landing.

Engines and Launcher Not included in kit.

USE *ONLY* THE FOLLOWING MPC ROCKET ENGINES WITH THE LUNAR PATROL

B3–3 B6–4 C6–4