

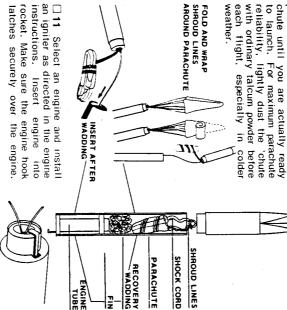
☐ 14 Apply two or more coats of sanding sealer to all balsa surfaces. Sand lightly with extra fine sandpaper between coats. Repeat until smooth. Give the rocket a spray base coat of white and follow with your choice of colors.

COUNTDOWN CHECKLIST

 □ 12 Pack two squares of loosely crumpled Estes RP-1A recovery wadding into body tube.

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

with ordinary talcum powder before rocket and slide nose cone into place. NOTE: DO NOT pack paraweather. each flight, especially to launch. For maximum parachute reliability, lightly dust the 'chute chute until you are actually ready properly. Pack shock cord neatly 5 colde into NOSE CONE



and to keep the clips from touching the blast deflector plate or an empty engine casing to make it easier to attach the clips Clean the micro clips, then clip one to each lead of the igniter. and short circuiting. not cross. The rocket may be supported with a scrap of wood The clips must not touch each other and the igniter leads must Lower the rocket into position on the launch rod or rail.

□10 Disarm the launch panel.

PENROSE, COLO. 81240

KD.-T31

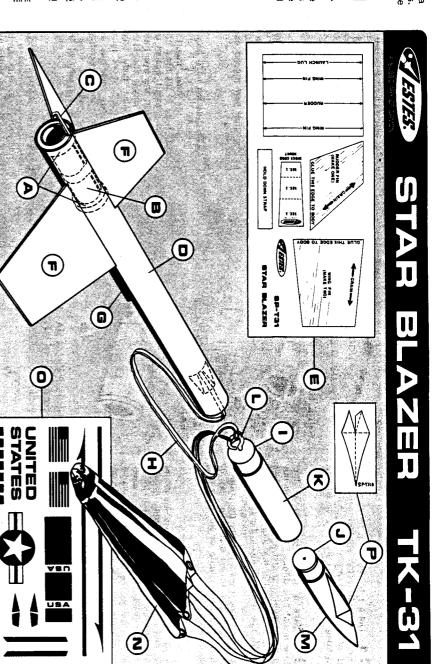
STAR BLAZER

- □ 8 Clear the launch area, alert recovery crew and trackers.
- into recovery area. Check for low flying aircraft and unauthorized persons
- □ 6 Arm the launch panel.

-4 -3 -2 -1 LAUNCH!!

MISFIRE PROCEDURE

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



PARTS

2 Adapter Rings AR-520 1 Engine Mount Tube BT-5T 1 Engine Hook BT-5T 1 Engine Hook BT-20D 3 Body Tube BT-20D 1 Pattern Sheet SP-T31 1 Balsa Fin Stock BFS-20 1 Launch Lug LL-2A 1 Shock Cord SC-1	Ŧ	ຄ	π.	iu	<u>.</u>	ဂ	<u>в</u>	
Adapter Rings AR-520 Engine Mount Tube BT-5T Engine Hook EH-3 Body Tube BT-20D Pattern Sheet SP-T31 Balsa Fin Stock BFS-20 Launch Lug LL-2A Shock Cord SC-1	_	<u> </u>	_	_		_	_	N
	Shock Cord SC-1	Launch Lug LL-2A			Body Tube BT-20D	Engine Hook EH-3	Engine Mount Tube BT-5T	Adapter Rings AR-520

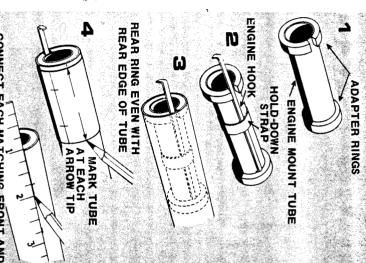
CanopySP-T31B	_	P	
DecalKD-T31	_	0	
ParachutePK-10R		z	
Nose ConeBNC-20N	_	Ķ	
Screw EyeSE-2	_	ŗ	
Payload TubeBT-20M	_	<u>.</u>	
Nose Cone WeightNCW-1		ے:	
Nose BlockNB-20	_	-	

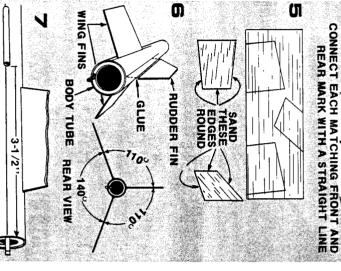
(or single edge razor blade), masking tape and paint will need scissors, white glue, a sharp model knife In addition to the parts included in this kit you

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

INSTRUCTIONS ASSEMBLY

- adapter rings. Glue the split ring on one end of the engine mount tube. Glue the remaining ring on the other end as shown.
- Make a 1/8" wide slit in the engine mount tube directly in line with the sheet, apply glue to one side, and wrap it Cut out the hold-down strap from the pattern gap in the split ring and against the other hook as shown. tightly around the middle of the tube and passes through the gap in the split ring. the slit. Lay the hook along the tube so it ring. Insert one end of the engine hook into
- with the mount in the wrong place. during this operation or the glue may stick with the rear of the body and so the end of the engine mount tube is even hook projects from the tube. Do not pause Smear glue around the inside of the body tube about 3/4" from one end. Immediately slide the engine mount unit into place the engine
- connecting ends of the guide are in line with the engine about four inches from the end of the tube mark. Draw the launch lug line so it reaches Remove the guide and draw a straight line hook. Mark the tube at each arrow point. Wrap it around the rear of the body so the line 3/4" from the rear of the tube Make a position mark on each "wing" fin Cut out the body tube marking guide each matching front and real
- illustrated. out the fins carefully and sand the edges as outlines on the balsa sheet as shown. Cut Cut out the fin pattern. Trace their
- the fillet to both sides of each fin the tube and allow to set. rear of each wing is on the mark you made rear is even with the end of the tube. Glue n Step 4. Align the fins straight away from the "wing" fins on the wing lines so the the "rud glue Rub a priming coat of glue into the edge of each fin and allow to set. Glue is completely dry. " fin on the rudder line so its Apply a glue joint after
- the lug alignment line as shown, 3-1/2" from the rear of the tube. Make sure the lug is perfectly straight on the body. Glue the launch lug to the body on





Apply glue to the inside of the body tube at the front over an area about 1" to 1-3/4" from the end. The glued area should be the same size as the shock cord mount. Press glue sets. gether with your fingers until the glue sets and fold over again. Clamp the the mount into the glue and hold it until the section 1 and lay the shock cord as shown fold it on the dotted lines. Apply glue to Cut out the shock cord mount. Pre-<u>=</u>

aside to dry. the rear of the nose cone. Wipe off any excess glue from around the edge and set □ **10** Glue the nose block into the payload tube so that 1/2" of the block pronose cone weight and press it tightly onto into the base of the nose block. Remove it ects from the tube. Insert the screw eye

from the rocket body tube, but not be extremely loose. If fit is too tight, sand and squirt a small amount of glue into the hole. Re-insert the eye into the hole. inside of body tube end and shoulder of The nose block should separate easily

or masking tape to the shoulder of each nose block with fine sandpaper. loose add a wrapping of transparent tape If nose cone and nose block are too

then folding on the scored line. Apply glue to the outside (unprinted side) of flap "A" and stick this to the inside of the matching scoring with a very dull rounded blade and dotted fold lines. This can best be done by the glue sets front canopy panel. Hold this joint unti lines. 11 Cut out the canopy on its edge Carefully crease it exactly on

pass the parachute through this loop, and pull tight. Apply a spot of glue to the lines where they knot around the screw eye. Tie the free end of the shock cord to the screw eye and insert the nose cone in the front of the payload section. on the parachute. Open the lines up into a loop on the other side of the screw eye, it is straight on the cone. Press down all edges securely. Hold the canopy in place of the nose cone, set the canopy in place so screw eye for about three inches. Make sure at this center and poke them through until the glue sets. of the canopy all around the edges. Matchthe tape discs hold the shroud lines securely Ine on the parachute. Fold the shroud lines ing the rear of the canopy to the shoulder Apply a line of glue to the inside

Ø SHOCK CORD FOLD FORWARD FOLD FORWARD SPREAD GLUE HERE SPREAD GLUE HERE

SPREAD GLUE INSIDE BODY
TUBE PRESS MOUNT ONTO GLUE

SET BACK AT LEAST 1

L 9 Make sure the back of the nose cone is flat. Smear glue on one side of the

GLUE WEIGHT

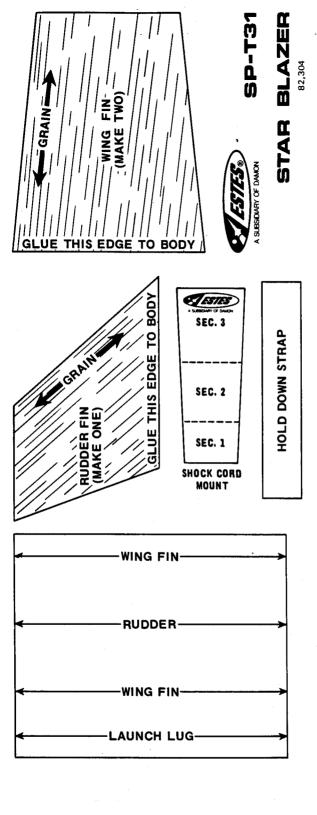
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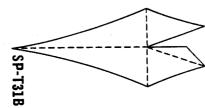
9 INSERT SCREW EYE, REMOVE, SQUIRT GLUE INTO HOLE

CUT OUT CANOP APPLY GLUE TO FLAP "A" GLUE

<u>u</u> INSIDE CANOP N NOTE: MAKE SURE TAPE STRIPS HOLD APPLY GLUE TIE SHOCK CORD LOOP LINES AND TO SCREW EYE

SHROUD LINES SECURELY ON PARACHUTE







TK-31 STAR BLAZER

