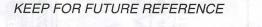




Printed in Guangdong, China

FLYING MODEL ROCKET

Estes-Cox Corp. 1295 H Street, PO Box 227 Penrose, CO 81240-0227





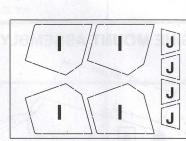
#3208

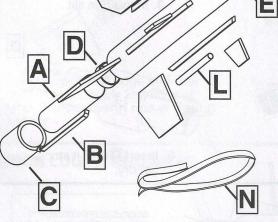
ASSEMBLY TIP: Read all instructions before beginning work on your model. Make sure you have all parts and supplies.

IMPORTANT: Your Estes product is marked with a four digit lot code or codes. The code is two digits, a space and two more digits representing the week and year of manufacture, respectively.

Lot codes can be found on the product package, decal, launch controller, launch pad and/or blast deflector. Please record the lot code found on the decal and keep for future reference. Lot code:

NOTE: Test fit all parts together before applying glue. If parts don't fit properly, sand as required for precision assembly.





Part	Qty.	Description	Part Number 030408		
Α	1	Engine Mount			
В	1	Engine Hook	035021		
С	1	Green Adapter Ring	030165-2		
D	1	Engine Block	030224		
Е	1	Main Body Tube BT 50	031785		
F	1	Balsa Tube Adapter	070008		
G	1	Upper Body Tube BT 20	030314		
Н	1	Balsa Nose Cone	070228		
1	4	Laser Cut Lower Balsa Fins	065978		
J	4	Laser Cut Upper Fins	065978		
K	4	Hardwood Strips	032073		
L	1	Launch Lug	038190		
М	1	Screw Eye	038251		
N	1	Shock Cord	038367		
0	1	Parachute	035815		
	1	Waterslide Decals (not shown)	065980		

IES In addition to the parts included in the kit you will also need:

























SCISSORS

RULER

FINE (SAND PAPER (#320-#400 GRIT)

CARPENTER'S GLUE

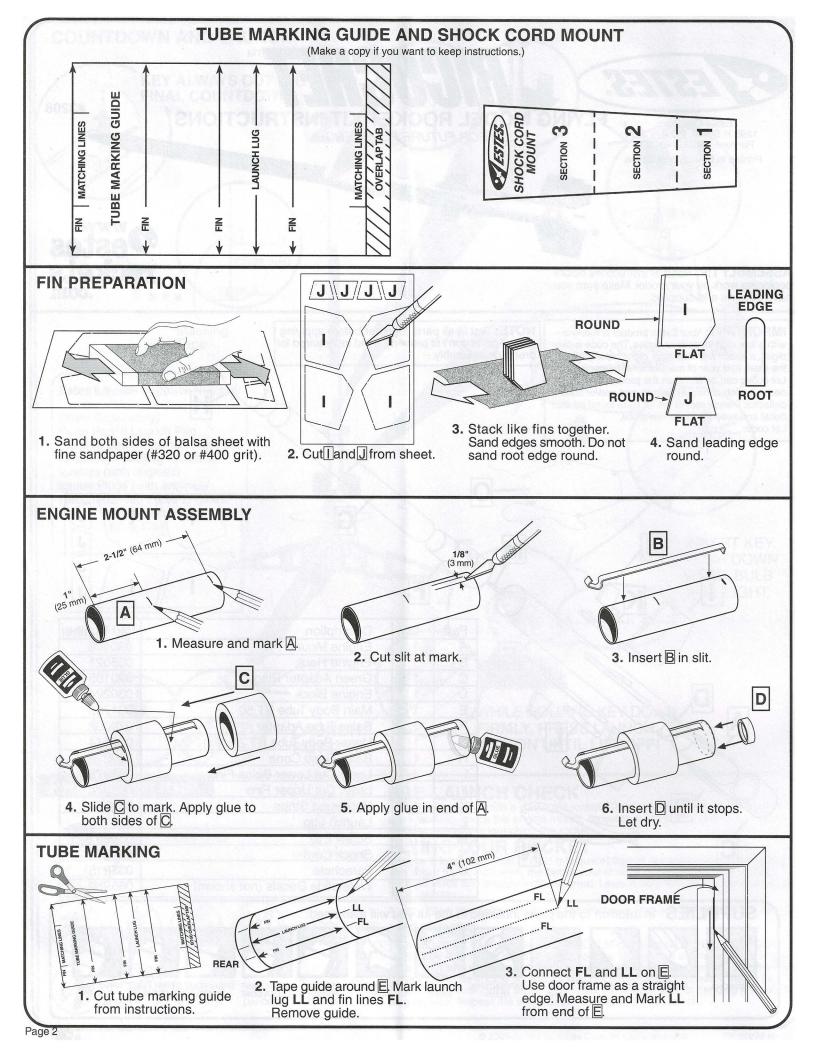
MODELING KNIFE

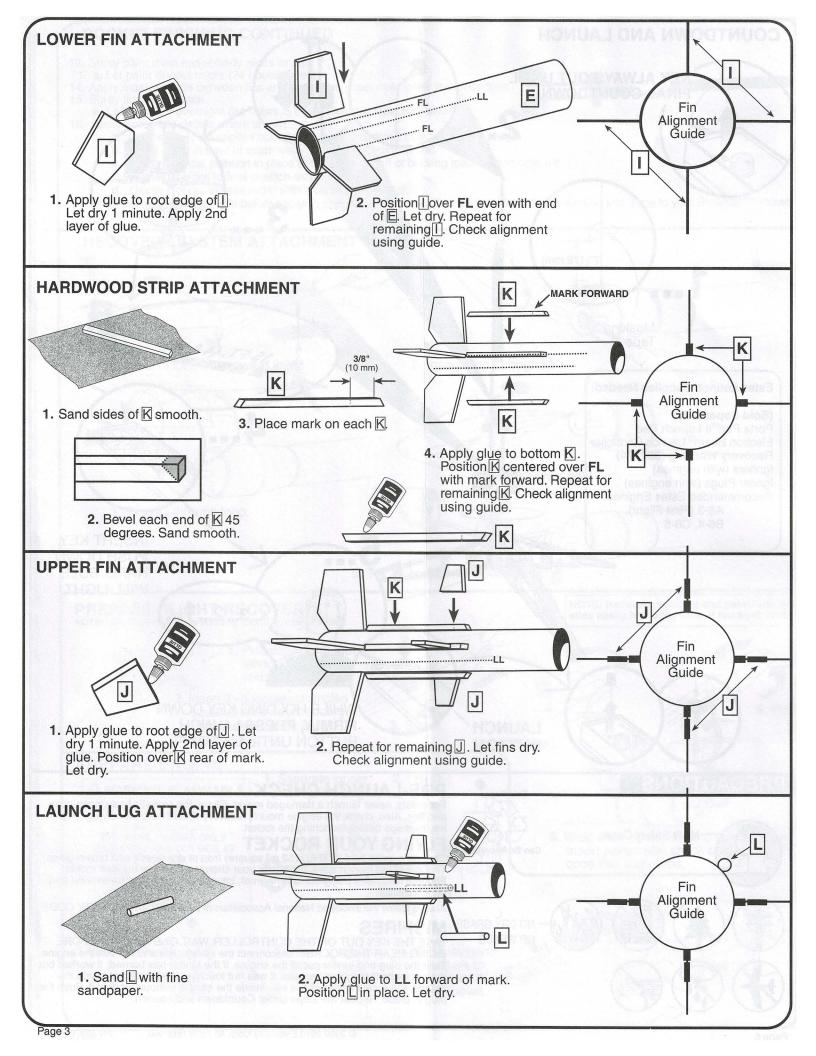
MASKING TAPE

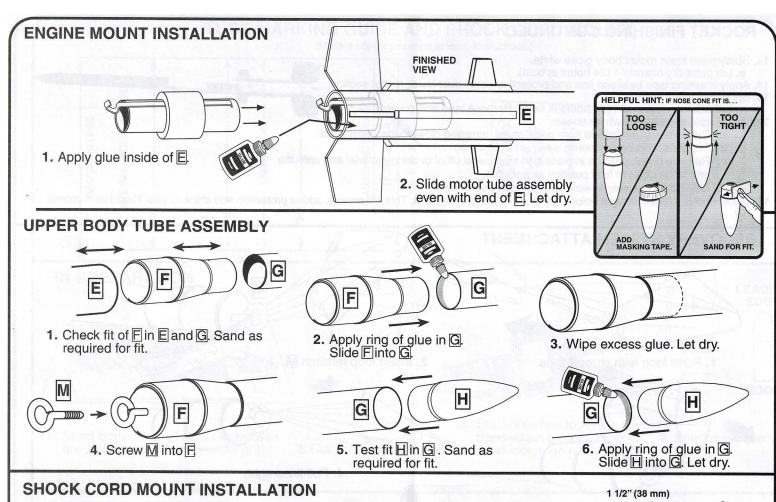
SPRAY PAINT CLEAR COAT GLOSS (OPTIONAL) WHITE

SPRAY PAINT GLOSS BLUE

SPRAY PAINT GLOSS BLACK









1. Cut shock cord mount from instructions.

2. Apply glue to mount. Place N on Section 2. Fold forward.

3. Apply glue and fold forward. Squeeze tight! in E. Hold until glue sets. Let dry.

ROCKET FINISHING

NOTE: We have found Testors One Coat Lacquer, Testors Model Master spray paints and Testors Gloss Lacquer (#1961) to be excellent for providing a long lasting and durable finish on your rocket. Always be sure to spray your models outside or in a well ventilated area.

Steps for a Quality Finish:

1. Insert shock cord into body tube and hold in place with paper.

2. Lightly sand entire rocket with fine sandpaper (#320 or #400 grit).

- Apply glue fillets to fins and launch lug.
 Allow glue to dry overnight.
 Paint the main rocket body and upper rocket tube separately. Assemble after painting is complete.
- 5. Use a stick inserted into the engine tube end of the rocket body for painting.
- 6. Hold the upper rocket section by the screw eye with a clip or pliers for painting.

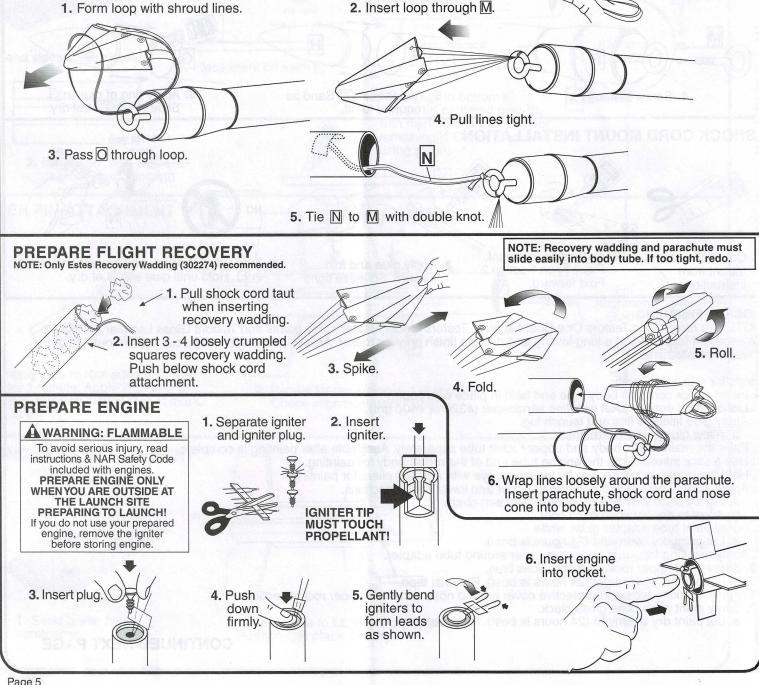
7. Apply 2 light coats of white primer to upper and lower rocket sections. a. Lightly sand with fine sandpaper between coats.

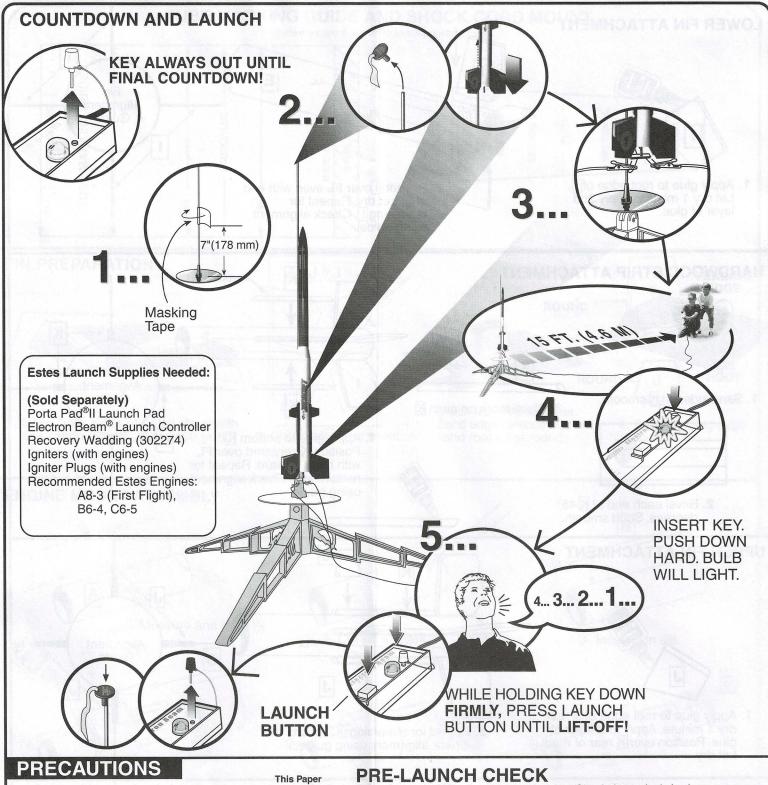
- b. Allow to dry between each coat.
- 8. Spray paint tube adapter gloss white.
- a. Let paint dry overnight (24 hours is best).9. Apply masking tape and protective cover around tube adapter.
- 10. Spray paint upper rocket section gloss blue.
 - a. Let paint dry overnight (24 hours is best). Remove tape.
- 11. Apply masking tape and protective cover around nose cone and upper rocket section.
- 12. Spray paint nose cone gloss black.
 - a. Let paint dry overnight (24 hours is best). Remove tape.

4. Apply glue to shock cord mount and insert

CONTINUED NEXT PAGE

ROCKET FINISHING CONTINUED Spray paint main rocket body gloss white. a. Let paint dry overnight (24 hours is best). 14. Apply masking tape between fins and protective cover over lower rocket section. 15. Spray fins gloss black. a. Let paint dry overnight (24 hours is best). Remove tape and cover. 16. Apply waterslide decals where shown. a. Cut decals to be applied from decal sheet, trimming close to the decal edge. b. Place decal in bowl of warm water until decal begins to curl. c. Remove decal, position in place and slide decal off of backing material and onto the model as close to final position as possible. d. Gently blot out excess water with a clean paper towel. 17. Allow decals to set overnight before applying protective clear coat. This will provide added protection and shine to your Ricochet™ rocket! RECOVERY SYSTEM ATTACHMENT 1. Form loop with shroud lines. 2. Insert loop through M. 4. Pull lines tight. 3. Pass O through loop. 5. Tie N to M with double knot. NOTE: Recovery wadding and parachute must PREPARE FLIGHT RECOVERY slide easily into body tube. If too tight, redo. NOTE: Only Estes Recovery Wadding (302274) recommended. Pull shock cord taut when inserting recovery wadding. 2. Insert 3 - 4 loosely crumpled







NAR Safety Code



NO DRY GRASS

OR WEEDS

For safety, never launch a damaged rocket. Check the rocket's body, nose cone and fins. Also, check the engine mount, recovery system and launch lug. Repair any damage before launching the rocket.

FLYING YOUR ROCKET

Choose a large field (500 ft. [152 m] square) free of dry weeds and brown grass. The larger the launch area, the better your chance of recovering your rocket. Football fields and playgrounds are great. Launch only with little or no wind and good visibility.

Always follow the enclosed National Association of Rocketry (NAR) SAFETY CODE.

MISFIRES

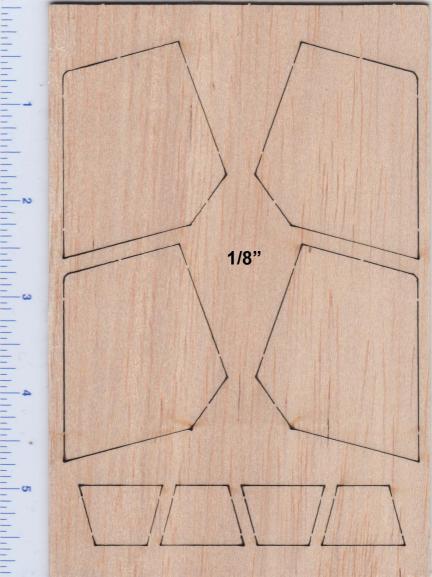
TAKE THE KEY OUT OF THE CONTROLLER. WAIT ONE MINUTE BEFORE GOING NEAR THE ROCKET! Disconnect the igniter clips and remove the engine. Take the plug and igniter out of the engine. If the igniter has burned, it worked but did not ignite the engine because it was not touching the propellant inside the engine. Put a new igniter all the way inside the engine without bending it. Push the plug in place. Repeat the steps under Countdown and Launch.





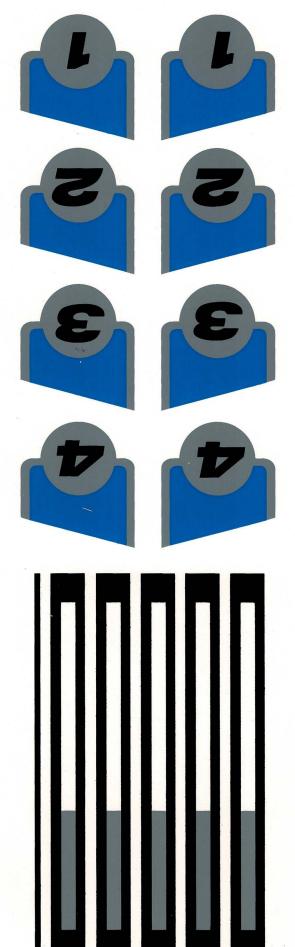






36-4; C6-5

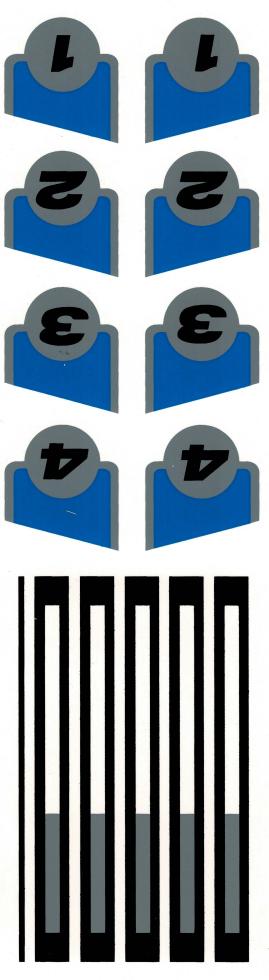
Recommended Engines: A8-3 (First Flight); B6-4; C6-5



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4:06-5 PARTE PARTE OF THE PARTE

Recommended Engines: A8-3 (First Flight); B6-4; C6-5



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PARTS LIST KIT No. 3208 - Ricochet										
Quantity	Description	Туре	Number	Details1	Details2	Details3	Details4	Comment		
1	PAPER BODY TUBE	BT-20?	30408	2.75" long	0.710" ID	0.736" OD	0.013" wall	White		
1	ENGINE HOLDER	EH-2	35021	2.8" long	.100" wide	.025" thick		Thumb Saver		
1	CENTERING RING	AR-2050L	30165-2	1.125" long	.737" ID	.949" OD	0.106" wall	Green		
1	ENGINE BLOCK	EB-20A	30224	.708" OD	.63" ID	.025" thick	fits BT-20	Black		
1	PAPER BODY TUBE	BT-50?	31785	9" long	0.950" ID	0.976" OD	0.013" wall	White		
1	BALSA ADAPTER	TA-2050A	70008	2.0" long	1.0" taper	.5" front	.5" back	BT-20 to BT-50		
1	PAPER BODY TUBE	BT-20?	30314	9" long	0.710" ID	0.736" OD	0.013" wall	White		
1	BALSA NOSE CONE	BNC-20AZ	70228	2.5" long	.736" dia.	.5" shoulder				
1	BALSA FIN STOCK	BFS-40?	*65978	1/8" thick	4" wide	6" long	0.125	Lasercut		
4	WOOD STRIPS		32073	1/8" square	4" long			Balsa		
1	LAUNCH LUG	LL-2	38190	5/32" ID	1/8" rod	2" long				
1	Screw Eye (Large)	SE-1	38251	1" long						
1	Shock Cord	SC-1	38367	25" long	1/8" wide			Rubber		
1	Parachute	PK-12	*35801	12" dia.	6 x 12" Shrouds		Org/Wht	Preassembled		
1	Decal		65980	2.25" wide	6" long	Multicolor	Waterslide	Scan		

^{*} Diecut part number

^{*}Part number 35815 listed in the plan indicates an 18" parachute however catalog specs and sister kit indicate 35801 which is a 12" patachute. I am considering 35815 as a typo since 18" is way too large for this size rocket.





