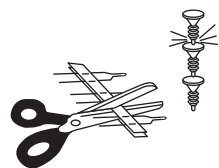


## PREPARE ENGINE

### ⚠ WARNING: FLAMMABLE

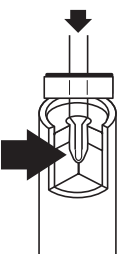
To avoid serious injury, read instructions & NAR Safety Code included with engines.  
**PREPARE ENGINE ONLY WHEN YOU ARE OUTSIDE AT THE LAUNCH SITE PREPARING TO LAUNCH!**  
 If you do not use your prepared engine, remove the igniter before storing engine.

1. Separate igniter and igniter plug.



2. Insert igniter.

**IGNITER TIP MUST TOUCH PROPELLANT!**

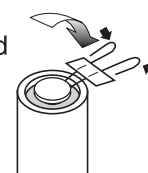


3. Insert plug.

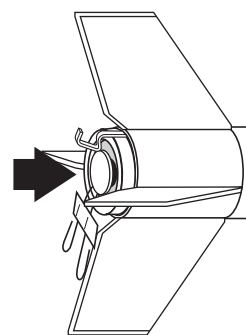
4. Push down.



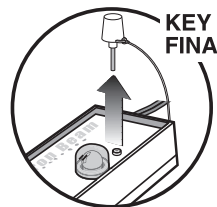
5. Gently bend igniters to form leads as shown.



6. Insert engine into rocket.

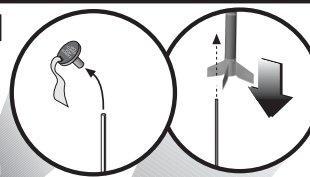


## COUNTDOWN AND LAUNCH

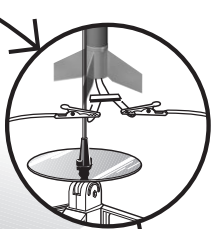


**KEY ALWAYS OUT UNTIL FINAL COUNTDOWN!**

2...



3...



4...



5...



**WHILE HOLDING KEY DOWN FIRMLY, PRESS LAUNCH BUTTON UNTIL LIFTOFF!**

4... 3... 2... 1...

**LAUNCH BUTTON**

1...

Masking Tape

**Estes Launch Supplies Needed:**

**(Sold Separately)**  
 Recovery Wadding (302274)  
 Igniters (with engines)  
 Igniter Plugs (with engines)  
 Recommended Estes Engines:  
 A8-3, B4-4 (First Flight),  
 B6-4, C6-5

**NOTE: IF PAYLOAD IS HEAVY DO NOT USE A8-3 ENGINES.**

## PRECAUTIONS



NAR Safety Code



Can Be Recycled



**NO DRY GRASS OR WEEDS**

## PRE-LAUNCH CHECK

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.



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

# SKY LOFTER™

## FLYING MODEL ROCKET KIT INSTRUCTIONS

#1498

KEEP FOR FUTURE REFERENCE



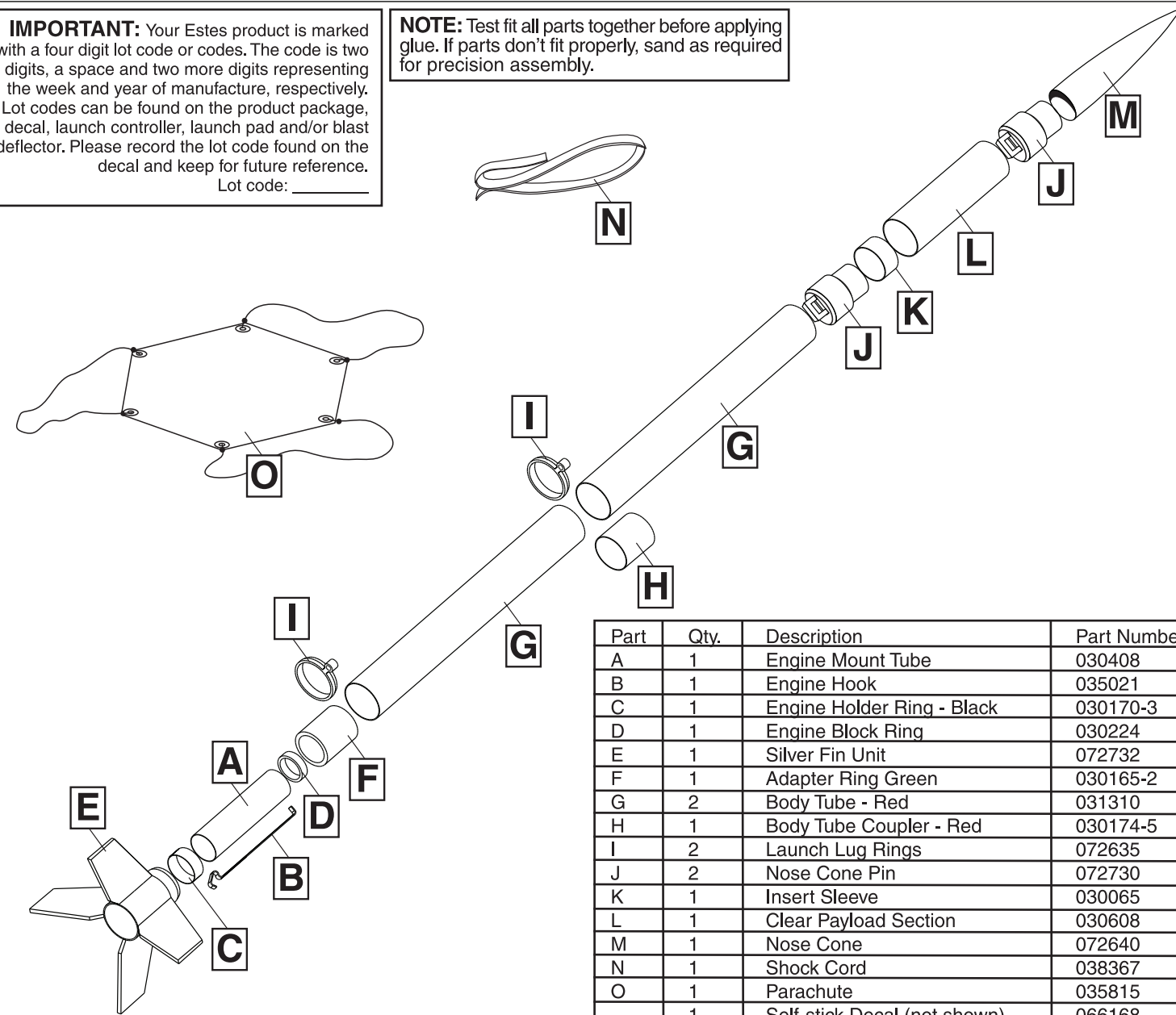
www.  
**estes**  
 rockets  
 .com

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

Please refer to included Launch Set Instructions for parts identification, assembly and use of the Estes Launch System.

**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
A	1	Engine Mount Tube	030408
B	1	Engine Hook	035021
C	1	Engine Holder Ring - Black	030170-3
D	1	Engine Block Ring	030224
E	1	Silver Fin Unit	072732
F	1	Adapter Ring Green	030165-2
G	2	Body Tube - Red	031310
H	1	Body Tube Coupler - Red	030174-5
I	2	Launch Lug Rings	072635
J	2	Nose Cone Pin	072730
K	1	Insert Sleeve	030065
L	1	Clear Payload Section	030608
M	1	Nose Cone	072640
N	1	Shock Cord	038367
O	1	Parachute	035815
	1	Self-stick Decal (not shown)	066168

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



SCISSORS



PENCIL



RULER



CARPENTER'S  
 GLUE



MODELING  
 KNIFE



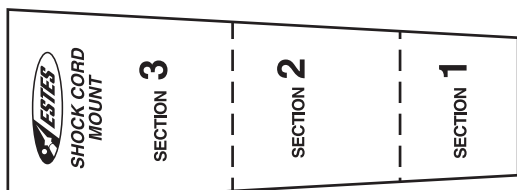
CLEAR  
 TAPE



PLASTIC  
 CEMENT



FINE SAND  
 PAPER  
 (#320-400 GRIT)



## SHOCK CORD MOUNT

(Make a copy if you want to keep instructions.)

### ENGINE MOUNT ASSEMBLY

1. Measure and mark **A**.  
2. Cut small slit at mark.
3. Insert **B** in slit.
4. Slide **C** to mark. Apply ring of glue to both sides of **C**. Wipe excess glue. Let dry.
5. Apply ring of glue inside end of **A**. Insert **D** until it stops.

### ENGINE MOUNT INSTALLATION

1. Align **B** with slot in **E**. Slide engine mount assembly into **E** until the end of **A** and **E** are even.
2. Apply ring of glue inside end of **F**. While holding engine mount assembly in place from rear, push **F** over engine mount assembly until it stops.

COMPLETE ASSEMBLY

### BODY TUBE ATTACHMENT

1. Apply ring of glue inside end of **G**. Slide **G** over **F** until it stops. Wipe excess glue. Let dry.
2. Mark **H** at center.
3. Apply ring of glue inside of **G**. Insert **H** to mark. Let dry.
4. Apply ring of glue inside end of other **G**.
5. Slide **G** over **H** until it stops. Wipe excess glue. Let dry.

### LAUNCH LUG RING ATTACHMENT

BEVELED EDGE TO FRONT  
PLACE DECAL FORWARD OF TOP LAUNCH LUG RING

1. Apply ring of cement on **G** 1" (25 mm) up from **E**.
2. Slide **I** down over **G** and position in place over cement. NOTE: Make sure launch lug is centered between fins and aligned with **B**. Wipe excess cement.
3. Apply ring of cement to upper launch lug location over seam where **G**'s meet. Slide remaining **I** down over **G** and position in place over cement.
4. Insert a section of launch rod to align launch lugs. Let dry.

### SHOCK CORD INSTALLATION

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.
4. Squeeze tight!
5. Apply glue to shock cord mount and insert in body tube. Hold until glue sets. Let dry.

NO

### NOSE CONE ASSEMBLY

1. Apply a ring of cement inside end of **M**.
2. Insert **J**. Wipe excess glue. Let dry.

### PAYLOAD ASSEMBLY

1. Apply ring of cement inside end of **K**. Insert other **J** until it stops. Let dry.
2. Apply ring of cement inside end of **L**. Insert **J** until end of **K** is even with end of **L**. Let Dry.
3. Slide nose cone assembly into **L**. **DO NOT GLUE NOSE CONE ASSEMBLY IN PLACE.**
4. When ready to launch, use clear tape to hold **M** in **L**.

### PARACHUTE ATTACHMENT

1. Form loop.
2. Push loop through eyelet on payload assembly.
3. Pass through loop.
4. Double knot **N** to the eyelet.

### RECOVERY SYSTEM

1. Pull shock cord taut when inserting wadding.
2. Insert 3-4 squares of loosely crumpled recovery wadding into rocket. Push below shock cord attachment.
3. Spike.
4. Fold.
5. Roll.
6. Wrap shroud lines loosely. Insert parachute, shock cord, and payload assembly into body tube.

NOTE: Only Estes Recovery Wadding (302274) recommended.

NOTE: Recovery wadding and parachute must slide easily into body tube. If too tight, redo.