

6 You will attach der parachutz und shock cord now.

A. Tie shock cord from main body tube to eyelet on bottom of nose cone using a double knot.

B. Form a loop with the parachute shroud lines.

C. Lay shock cord over loop 3/4" (19 mm) from nose cone.

D. Pass parachute through loop.

E. Pull tight.

7 Zo now you are readit to launchen der Red Max... goodt. You musten follow dhese stepz to packen der parachutz und installen der Estes engine.

NOTE: Only Estes Wadding (302274) recommended.

A. Pull shock cord taut when inserting wadding.

B. Insert 4 - 5 loosely crumpled squares of recovery wadding in body tube. Push below shock cord attachment.

C. Spike parachute.

D. Fold.

E. Roll.

F. Wrap lines loosely around the parachute. Insert parachute, shock cord and nose cone into body tube.

HELPFUL HINT: IF NOSE CONE FIT IS...
 TOO LOOSE: ADD MASKING TAPE.
 TOO TIGHT: SAND FOR FIT.

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.

A. Separate igniter and igniter plug.

B. Insert igniter. **IGNITER MUST TOUCH PROPELLANT!**

C. Insert plug.

D. Push down.

E. Gently bend igniters to form leads as shown.

D. Insert engine into rocket.

8 Vondebar! Undt now you can countdown und launcht your rockutt!

ESTES LAUNCH SUPPLIES (Sold Separately)
 • Porta Pad® II Launch Pad
 • Electron Beam® Launch Controller
 • Recovery Wadding (302274)
 • Igniters (with engines)
 • Igniter Plugs (with engines)
 • Estes Engines: B4-2, B4-4, B6-4, C6-5

KEY ALWAYS OUT UNTIL FINAL COUNTDOWN!

1... MASKING TAPE

2...

3...

4... INSERT KEY. PUSH DOWN FIRMLY AND HOLD.

5... WHILE HOLDING KEY DOWN, PRESS LAUNCH BUTTON UNTIL LIFTOFF!

6... 4... 3... 2... 1...

7... 15 FT. (5 M)

PRECAUTIONS

NAR Safety Code

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(s). 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 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.

NO DRY GRASS OR WEEDS

ESTES
 www.estesrockets.com
 Estes-Cox Corp.
 1295 H Street, PO Box 227
 Penrose, CO 81240-0227
 Printed in China

DER RED MAX™
 FLYING MODEL ROCKET KIT INSTRUCTIONS
 KEEP FOR FUTURE REFERENCE

ASSEMBLY TIP
 You will readin der instructions ver-r-r-y carefully before beginning der konstruktion. Das ist an order! Undt be sure you haff all der parts for der kit, undt all supplies to bilden diezer model. Undt also test fitten der parts to be glued together, undt iffen zhey don't fitten zer goodt, sanden der parts until zer fitten ist goodt. Yavoh!

PARTS

- EB-70A YELLOW ENGINE BLOCK RING (1) (30171)
- HR-20 MYLAR ENGINE HOOK RETAINER (1) (30168)
- BT-20G ENGINE MOUNT TUBE (1) 3 1/2" (89 mm) (30324)
- BT-60HE BODY TUBE (1) 8 1/2" (216 mm) (31716)
- LL-2AM LAUNCH LUGS (2) (38176)
- EH-2A ENGINE HOOK (1) (35021)
- BLACK NOSE CONE (1) PNC-60AH (72608)
- RUBBER SHOCK CORD (1) 1/4" X 18" (6 mm x 457 mm) (38368)
- TA-603 DIE-CUT ADAPTER SET (1) (30045)
- LASER CUT BALSA SHEET (1) (63100)
- DECAL SHEET A (1) (63103)
- DECAL SHEET B (1) (63104)
- SCM-63 SHOCK CORD MOUNT (1) (84445)
- ASSEMBLED PARACHUTE (1) 18" (457 mm) (35823)

Be zure you have dhese supplies ready to buildt der model... zold zeparately.

- SCISSORS
- PENCIL
- FINE SAND PAPER (#220-400 GRIT)
- CARPENTER'S GLUE
- MODELING KNIFE
- SANDING BLOCK
- MASKING TAPE
- SPRAY PRIMER/FILLER (WHITE)
- SPRAY PAINT RED
- SPRAY CLEAR COAT (OPTIONAL)
- RULER

Undt zo! You is now der proud owner uff der RED MAX. Never before haff ve disclosed der existence uff it. You may tink der astronauts iss bringen back only moon rocks. Ha! Nein, 1st nodt zo. Day iss aizo bringin back der photographischer uff das mysterious rockutt in der crater. Ya! Undt it vas nun udder den der RED MAX! Ach Himmell Vitsh vas explaining vere it landed, Ach, doze dummkofs! Mein crew kudt neffer getting noddng to verken right.

Zo now ve is bringen you das RED MAX vitch iss zo zecret iss even forgatting vat is for. Ver-r-y interesting!

Undit now, you vill built itt und you vill like it. Yavoh! Dat is an order!

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1. We vill start azsembly with der motor mount.

A. Measure and mark engine mount tube at
 • 1" (25 mm)
 • 2-1/2" (64 mm)

B. Cut 1/8" (3 mm) slit at 2-1/2" (64 mm) mark.

C. Apply glue around tube just above the 1" (25 mm) mark. Position and insert engine hook into slit as shown.

D. Slide mylar engine hook retainer onto engine mount tube to the 1" (25 mm) mark. Let dry.

E. Using a scrap piece of balsa apply a ring of glue inside the forward end of the engine mount tube just in front of the engine hook.

F. Insert yellow engine block ring until it stops against the engine hook. Let dry.

G. Carefully remove centering rings from die-cut adapter set with modeling knife. Sand edges smooth.

H. Apply glue around tube at rear edge of engine hook retainer. Slide notched centering ring onto tube and up against engine retainer ring. Apply glue around the end of the tube. Slide the unnotched centering ring onto the tube flush with the end. Let glue dry.

I. Apply glue fillets to centering rings. Let glue dry completely.

2. Next, you vill prepare der fins as shown... vershtain?

A. Using 220 grit sandpaper block sand both sides of the laser cut balsa sheet smooth.

B. Carefully remove fins with a modeling knife.

C. Stack fins together and sand edges as shown.

D. Sand the leading and trailing edges round as shown.

3. Zeroodt zo far! Undt now continue vit der bildingt of rokit body.

A. Carefully remove tube marking guides from card with a modeling knife.

B. Slide one tube marking guide onto each end of the main body tube. Hold the tube with the flat sides of the guides on a flat table as shown. Use a pencil to mark the tube at each 'V' location in the guides. At the top center 'V' location, write LL on the tube to indicate these are the launch lug marks.

C. Hold the body tube against a door frame. Align, and connect each pair of pencil marks on the body tube with a straight line the length of the tube. Mark the remaining lines with an F to indicate these are fin lines.

NOTE: TOP CENTER 'Vs' ARE THE LAUNCH LUG MARKS.

D. Using a scrap piece of balsa apply a line of glue 3" (76mm) inside one end of the main body tube.

E. Align engine hook with launch lug line and insert engine mount assembly until engine mount tube is even with body tube.

F. Using a scrap piece of balsa, apply a glue fillet around the centering ring / body tube joint. Let glue dry completely.

G. One fin at a time, apply a thin line of glue to the root edge and rub it into the balsa. Then apply a line of glue along the root edge of fin and attach fin to the body tube along an F alignment line. Position the fin flush with the end of the body tube. Repeat for remaining fins, sighting down the body tube and adjusting the fins as per Diagram A before the glue dries.

H. Glue the launch lugs to the body tube along the LL line as follows:
 • One flush with the bottom of the body tube.
 • One 5-1/4" (133 mm) up from the bottom of body tube.

Diagram A

NOTE: FINS MUST BE ATTACHED CORRECTLY FOR A STABLE FLIGHT.

J. Stand rocket on flat table until glue dries completely.

K. Apply glue fillets to both sides of fin and launch lug joints. Smooth each fillet with your finger. Let dry completely.

LAUNCH LUG
GLUE FILLETS
FIN

4. You vil now installt der shock cord.

A. Cut out shock cord mount.

B. Fold.

C. Apply glue. Fold forward.

D. Apply glue. Fold forward.

E. Squeeze tightly and hold for one minute.

F. Glue mount 2" (51 mm) inside body tube. Hold until glue sets. Let glue dry completely.

YES (Correct placement)

NO (Incorrect placement)

5. Undt now ist der time to vinnish und paint your model. Yah... very goodt!

A. Place shock cord in body tube. Insert some crumpled paper into the motor mount and rocket body tube to protect it from primer & paint. Apply two or three light coats of spray primer to the body tube and fins (if not done before hand). Allow the primer to dry between coats. Then use 400 grit sandpaper to lightly sand the entire model to a smooth finish.

B. After primer has dried, paint entire rocket red, leave nose cone black. Let paint dry completely before applying decals.

C. When paint is dry apply decals to the model. To complete with a shiny finish, clear coat entire rocket and nose cone after decal placement.

TO APPLY WATERSLIDE DECALS:

A. Cut out an individual decal and dip in lukewarm water for about 10 seconds (one at a time).

B. When the decal slides freely from the backing paper, slip it onto the model and position in place.

C. Use a napkin or tissue to blot away any excess water. Allow decal to dry completely.

D. Repeat the process for remaining decals.

DO NOT CLEAR COAT (Incorrect application)