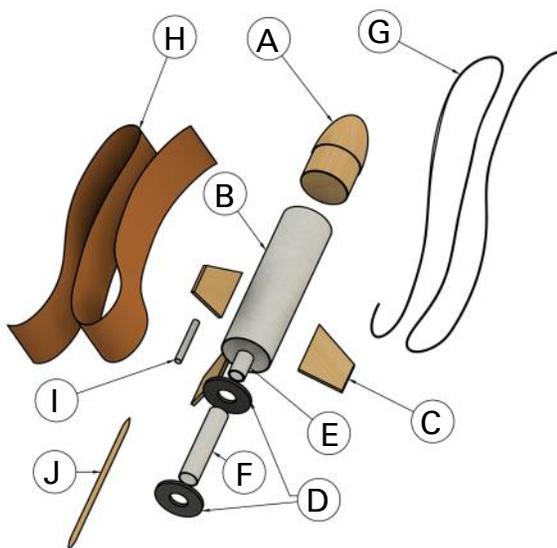


EXPLODED VIEW



PARTS LIST

A	1	Balsa Nose Cone.....	BNC-20H
B	1	Body Tube.....	BT-20-25
C	1	Laser-cut Fin Set.....	FM-08
D	2	Centering Rings.....	RA-2-20
E	1	Thrust Block.....	TB-2
F	1	Motor Tube.....	BT-2-125
G	1	Kevlar Cord.....	SCK-24
H	1	Streamer Pack.....	SP-124
I	1	Launch Lug.....	LL-MX
J	1	Wood Dowel 1/12"x2.5".....	WD-13
K	1	Decal (Not Shown).....	DMX-08
L	2	Fin Alignment Tool (not Shown)	TKMX-08

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About the MX Fat Boy™

The MX Fat Boy is a Downscale of the Fat Boy and Mini Fat Boy rockets produced by Estes Industries. The Fat Boy was originally released in the 1997 catalog in their "Beta Series" of entry level kits. It was Kit # EST 2139.

Jay Berry was inspired to engineer the MX Fat Boy™ to utilize the Micro Maxx brand of engines. These engines allow MX rockets to be flown in a smaller flying field for greater recoverability.

About Semroc

Semroc Astronautics Corporation was started by Carl McLawhorn in his college dorm at North Carolina State University in November, 1967. Convincing a small group of investors in his home town of Ayden, North Carolina to invest in a small corporation, the company was re-incorporated as Semroc Astronautics Corporation on December 31, 1969.

Semroc produced a full line of model rocket kits and motors. At its peak, Semroc had twenty-five full time employees working at two facilities. One was for research and development, printing, shipping, and administration. The other was outside of town and handled all production and model rocket motor manufacturing. For several years, Semroc successfully sold model rocket kits, supplies, and motors by mail-order and in hobby shops. In early 1971, Semroc became insolvent and had to close its doors.

After 31 years of dreams and preparations, Semroc Astronautics Corporation was reincorporated on April 2, 2002 with a strong commitment to putting the fun back into model rocketry. Many years of excellent service to the rocketry community passed by until sadly, on August 11 2013, Carl passed away and left a great void in the hearts of many rocketeers. He is forever in our hearts and minds.

In February of 2015, Semroc was sold to eRockets and moved to Dayton, Ohio where it resides today. It is our goal to continue the level of service and dedication to the hobby Carl and his family were so well known for. We strive to serve you, our customers, to the best of our abilities as we carry the vision of Carl McLawhorn boldly into the future.



Made in the U.S.A by Semroc - Dayton, Ohio

MX Fat Boy™ Kit No. KMX-08

	Specifications	Engine	Approx. Altitude
Body Diameter	.736" (1.87 cm)	Micro Maxx	220'
Length	3.562" (9.05 cm)		
Fin Span	1.937" (4.92 cm)		
Net Weight	0.13 oz. (3.65 g)		

Skill Level 1

TOOLS

You will need the following for your assembly:

Pencil Ruler Knife Wax Paper

White or Wood Glue

220 Grit Sandpaper

Medium Viscosity Super Glue

Sanding Sealer Brush or Spray Paint

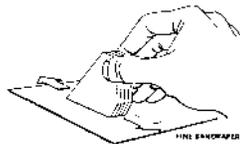
ASSEMBLY

❑ 1. Find the motor tube and place a mark 1/8 inch from each end of the tube. Tie a double overhand knot in the Kevlar shock cord near one end. See picture at right to see how to tie the knot. Put some glue in one end of the motor tube to hold the motor thrust block. Insert the end of the Kevlar shock cord with the knot into the motor tube before inserting the thrust block into the motor tube, trapping it between the thrust block and motor tube. Push the thrust block in until it is flush with the motor tube. Pull Shock cord until the knot is seated against the motor block. Install the two black centering rings onto the motor tube and glue them at the marks that were made on the tube.



Set aside to dry.

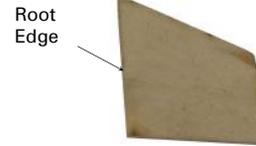
❑ 2. Stack all of the fins in a set. Line the set of fins up squarely and sand the fins back and forth over some fine sandpaper to get rid of the hold-in tabs as shown.



❑ 3. When the motor tube has dried, feed the shock cord through the body tube. Before inserting the motor tube into the body tube, put a bead of glue on the forward centering ring and the forward side of the aft centering ring. Insert the motor tube and slide it in until it is flush with the rear of the body tube. Stand body tube upright and allow glue to dry.

❑ 4. After the glue has had a chance to set up around the motor mount, add a fillet of glue around the aft centering ring from the rear of the body tube using a piece of balsa or a toothpick

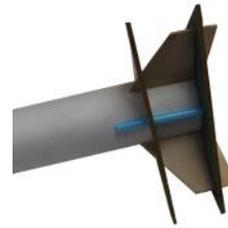
❑ 5. Using this picture, determine which edge of the fin is the root edge. This is the edge which will be glued to the body tube.



❑ 6. Using the enclosed fin alignment guides, glue the fins to the body tube. Because of the size of the fins, it is recommended that you use Medium Viscosity Super Glue to initially bond the fins to the body.



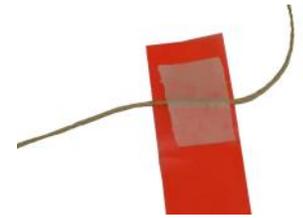
❑ 7. After you have all three fins attached, glue the plastic Launch Lug to the side of the body tube even with the rear of the body tube. Again, use Medium Viscosity Super Glue. After all of the fins and the launch lug have dried, add white or wood glue fillets to all glue joints.



❑ 8. Take the toothpick and push it approximately 1/2 way into the rear end of the nose cone. Make a mark on the toothpick and then remove it. Fill the hole with glue and insert the end of the shock cord. Cut the toothpick at the mark you made and insert it into the hole to hold the shock cord in place.



❑ 9. Cut the piece of supplied Streamer material in half lengthwise. Attach one of these pieces to the shock cord near the nose cone with a piece of Masking Tape as shown.



FINISHING

❑ 10. Prior to painting, the wood surfaces should be prepared by giving them several coats of Sanding Sealer to fill the open grain of the wood. This should be then sanded with 220 sandpaper to give it a smooth surface. The colors that were used on our cover picture were Testors #1245 Gloss White for the Body Tube, Testors #1203 Gloss Red for the Nose Cone, and Testors #1208 Gloss Light Blue for the Fins.

FLIGHT PREP

❑ 11. Prior to launching your MX Fat Boy you will need to install a motor in the motor tube. Put a small piece of masking tape on the side of the motor to friction fit it in the motor tube. It should be tight enough it will not come out when the ejection charge goes off. You will also need to put some recovery wadding into the body tube before you put the shock cord and streamer into the tube. This will keep the streamer from getting damaged when the ejection charge goes off. Put the nose cone back on the body tube making sure not to get any of the shock cord trapped between the body tube and the shoulder of the nose cone.

❑ 12. Using the eRockets Micro Maxx Launch Rod and Holder #eR 9080, prep your launch rod by inserting the igniter in the provided holes at the base of the launch rod. Slide the MX Fat Boy onto the launch rod, sliding it down until it sits on top of the igniter with the igniter fully inserted in the nozzle of the motor. Connect the power clips to the igniter, clear the range, perform a count-down, and launch your rocket.

❑ 13. Always check your rocket for damage and make repairs prior to launch. Have fun, and fly safely!