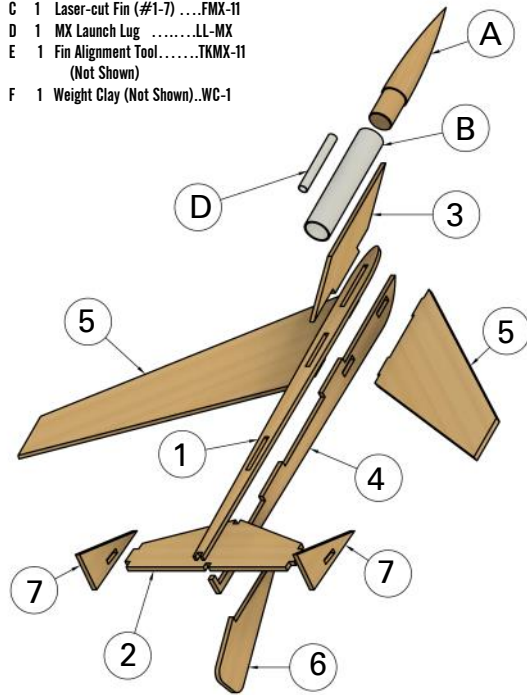


EXPLODED VIEW

PARTS LIST

- A 1 Balsa Nose Cone.....BNC-2PY
- B 1 Body Tube.....BT-2-1.25
- C 1 Laser-cut Fin (#1-7).....FMX-11
- D 1 MX Launch Lug.....LL-MX
- E 1 Fin Alignment Tool.....TKMX-11
(Not Shown)
- F 1 Weight Clay (Not Shown)...WC-1



About the MX Hawk

The MX Hawk is an offshoot of the Semroc Hawk Boost Glider. It is an approximate 50% Downscale, with some minor variations. The Nosecone shape has been changed because of the need for additional weight in the front of the glider. This kit utilizes the improved tab and slot assembly construction that was designed by Jay Berry. It has been implemented into the full scale Hawk Glider for easier construction, and better performance.

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 engines. 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 town and handled all production and model rocket engine manufacturing. For several years, Semroc was successful selling model rocket kits, supplies, and engines 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 helping put 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 that 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.

SEMROC

MX HAWK BOOST GLIDER

Laser Cut Balsa

Precision Turned
Balsa Nose Cone

Basswood Keel

Glide Recovery

Engineered by
Jay Berry



FLYING MODEL
ROCKET KIT

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

MX Hawk Kit No. KMX-11

Specifications	Engine	Approx. Altitude
Body Diameter .281" (.7 cm)	MicroMaxx	120'
Length 6.9" (17.5 cm)		
Wing Span 5.06" (12.8 cm)		
Net Weight 0.07 oz. (2.0 g)		

Skill Level 2

TOOLS NEEDED

You will need the following for your assembly:

Pencil Ruler Knife Wax Paper

White or Wood Glue

220 Grit Sandpaper

Medium Viscosity Super Glue

Colored Markers or Paint

ASSEMBLY

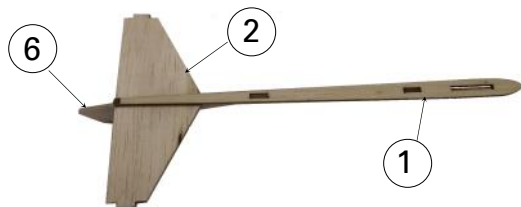
- ❑ **1.** Glue the Rudder (6) to the lower edge of the Basswood Keel (4) at the small end of the Keel. Make sure they are glued so that they are flat.



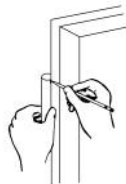
- ❑ **2.** Glue the Stabilizer (2) to the Keel (4) between the tabs on the side opposite the Rudder (6). Use the Alignment Jig to keep the Stabilizer Square with the Rudder.



- ❑ **3.** Turn the assembly over and glue the Fuselage Top (1) over the tabs and stabilizer as shown.



- ❑ **4.** Draw a line on the Motor Tube (B) the length of the tube. Use a door jamb or an angle to get a straight line. Using the line, glue the pylon (3) to the Motor Tube (B). Insert the Nose Cone (A) in the top of the Body Tube and check for fit. Sand the shoulder if necessary. Remove and glue in place.



- ❑ **5.** Glue the Pylon and engine mount assembly to the top of the fuselage assembly. Center it on the top of the fuselage and even with the front. Allow to dry, checking that the engine mount is in exact alignment with the fuselage.



- ❑ **6.** In preparation to installing the wings, invert the Fuselage/Pylon assembly and support the stabilizer end on the Fin Alignment Tool. The Body Tube should be flush with the table.



- ❑ **7.** Attach the wings (5) to the Keel by gluing the tabs in the slots and resting the wing on the Fuselage top. Support the wings in place and make sure the tips just touch the table. View the assembly from the front and make sure both wings form a symmetrical pattern and the pylon is vertical. Some masking tape at the tips of the wings will help support them while they dry.



- ❑ **8.** Glue the two Stabilizer Tips (7) to the ends of the Stabilizer using the tabs provided. Allow to dry.



- ❑ **9.** Glue the Launch Lug (D) to the top of the Motor Tube even with the rear of the tube directly opposite the pylon. Use Medium Viscosity Super Glue.



- ❑ **10.** After all the glue is dry, sand all the edges round on all balsa parts, except the main wings. Sand them to an airfoil shape for best results.

GLIDE TESTING

- ❑ **11.** Before the first flight of your Hawk, you will need to do some Glide Testing. Gently throw your Hawk and see how it flies. If it Dives, it means it is Nose heavy and needs some weight added to the tail. If it Stalls, it needs weight added near the Nose. You can add weight by using small amounts of the included Clay and sticking it to the glider.



You also want it to turn a little one way or the other so that it will make a circle as it comes down. That way you don't have to go so far to recover it.

FINISHING

- ❑ **12.** A glider needs very little finishing. For most gliders, the additional weight from paint will cause them to not glide well. A very light coat of paint or magic markers will give the best results. Re-trim the glide after applying any paint!

FLIGHT PREPPING

- ❑ **13.** If your MX Hawk was constructed properly, it will fly perfectly straight during boost. If it arcs over during boost, check for alignment problems and fix them before your next flight.

- ❑ **14.** Insert a Micro Max motor into the Body tube and make sure it is loose enough that it will be able to come out at time of the ejection charge.

- ❑ **15.** 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 Hawk 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. Use a dowel or some other support to keep the clips from catching on the glider after ignition.

- ❑ **16.** Carefully check all parts of your rocket before each flight as a part of your pre-flight checklist.