

Raytheon MIM-23 Hawk Missile



The missiles deployed within NATO and other countries. The most recent contract activity involving the HAWK was an order placed by Greece in October 1998. Others include Jordan, Singapore, Taiwan, Belgium, Denmark, Egypt, Federal Republic of Germany, France, Greece, Iran, Israel, Italy, Japan, Kuwait, Nationalist China, Netherlands, Norway, Republic of Korea, Saudi Arabia, Thailand, United Arab Emirates, Spain, Sweden and The United Kingdom.

Speed:	2,055.2 mph (Mach 2.7)
Weight:	1,400 lbs (635 kg)
Length:	16.7 ft (5.1 m)
Diameter:	14.57 in (0.37 m)
Wingspan:	3.97 ft.
Propellant:	Aerojet M112 dual-thrust solid-fueled rocket
Guidance System:	Radar directed semi-active homing
Accuracy:	85% single shot kill probability
Range:	6 miles
Speed:	Mach 2.5

The HAWK (Homing All the Way Killer) MIM-23 is an all-weather low to medium altitude ground-to-air missile system developed and designed by the American Defence Company Raytheon.

It was designed to be a much more mobile counterpart to the MIM-14 Nike Hercules, trading off range and altitude capability for a much smaller size and weight.

The Hawk was the first mobile medium-range guided anti-aircraft missile deployed by the U.S. Army. It entered service with the Army in this role in 1959 and was the oldest SAM system still in use by U.S. armed forces in the late 1990s.

In 1971 it underwent a major improvement program as the Improved Hawk, or I-Hawk, which made several improvements to the missile and replaced all of the radar systems with new models. Improvements continued throughout the next twenty years, adding improved ECCM, a potential home-on-jam feature, and in 1995, a new warhead that made it capable against short-range tactical missiles.

Hawk was superseded by the MIM-104 Patriot in US Army service by 1994. The last U.S. user was the U.S. Marine Corps, who used theirs until 2002 when they were replaced with the man-portable short-range FIM-92 Stinger. The missile was also produced outside the U.S. in Western Europe, Japan and Iran. The U.S. never used the Hawk in combat, but it has been employed numerous times by other nations. Approximately 40,000 of the missiles were produced.

Highly mobile, Hawk is transportable by vehicles, fixed wing aircraft and helicopters. The Hawk is employed as a platoon consisting of an acquisition radar, a tracking radar, an identification friend-or-foe (IFF) system, and up to six launchers with three missiles each. The missile is highly reliable, accurate and lethal.

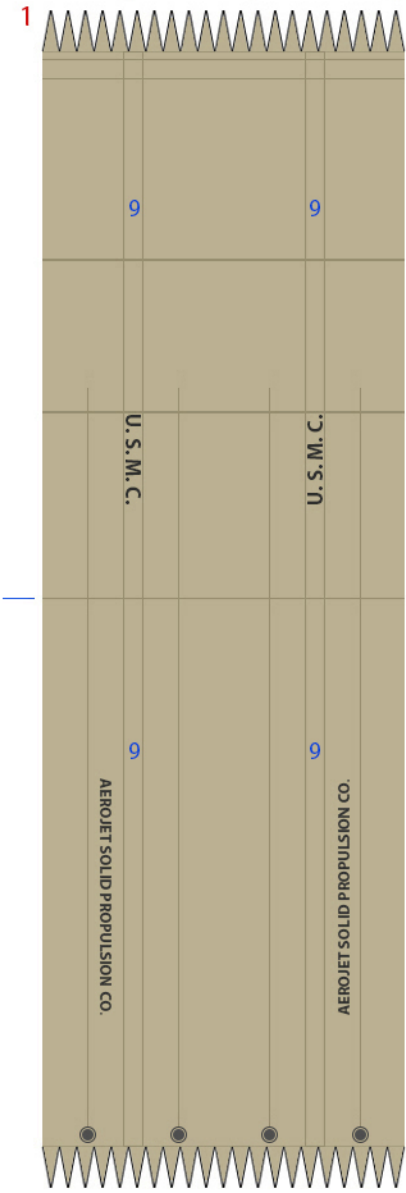
Hawk missiles are transported, loaded and launched from two specialized vehicles: the trailer-mounted M192 Hawk Transporter/Launcher and the tracked M501 (XM501E3, XM501L1) Hawk Loader/Transporter. The missiles were mounted in groups of three.

The Hawk missile system cost approximately \$25 million for a battery that could fire 48 missiles.

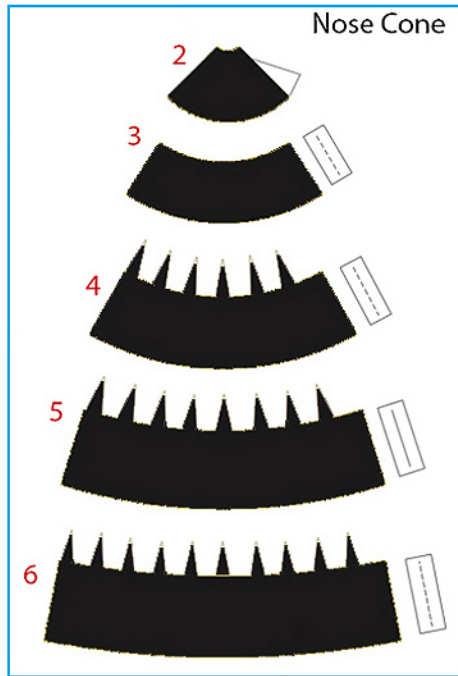
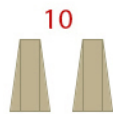
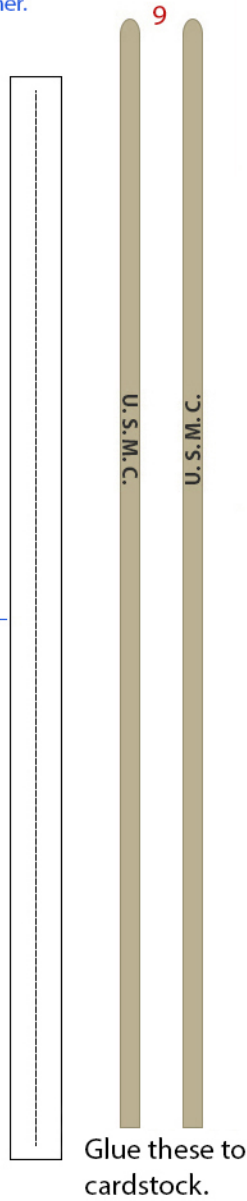


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NOTE: If having trouble rolling into a long tube, cut in half at the two blue lines below and use the connector at the bottom to glue the two pieces back together.



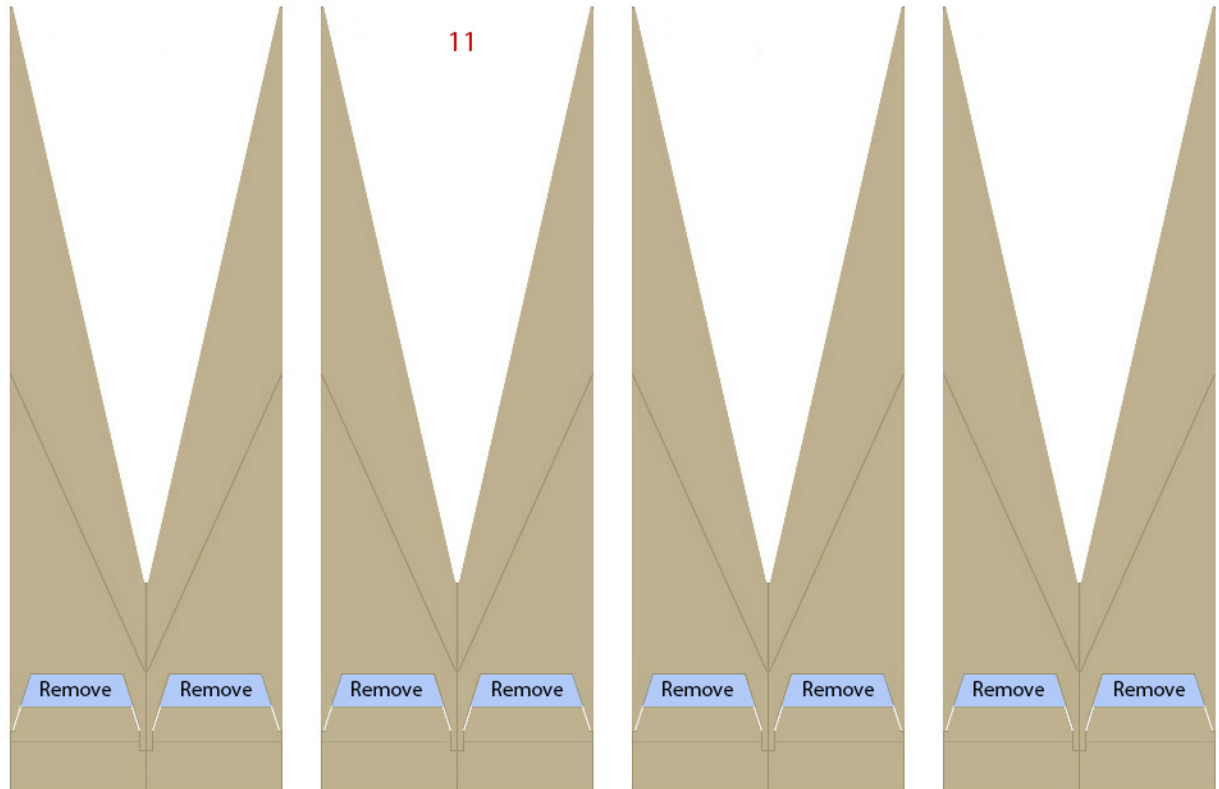
Optional 1 to 1 connector



Color back Black



FINS - cut out the blue areas. fold and glue in half.



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1/20 Scale Paper Model Instructions



PART 1 - If need to, cut in half at the blue lines, roll both halves into tubes and use the Optional 1 to 1 connector to glue both halves back together - Keep the seems aligned.

PARTS 8 (formers) - glue to cardstock. Add cardstock inside the body for strength. Glue the formers inside the body at each end to insure roundness.

PARTS 2-6 (nose cone) - glue together while keeping all seems aligned. Glue onto the top of the body.

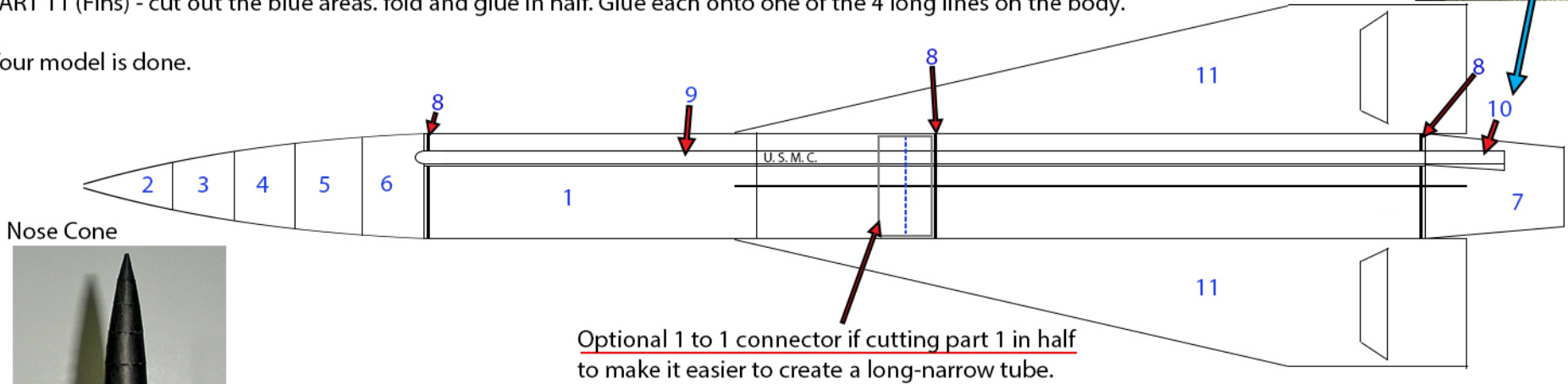
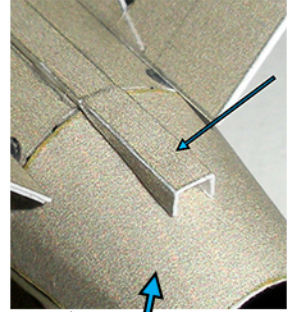
PART 7 - Color back side Black, glue at the bottom of the body.

PART 9 - glue to cardstock, glue onto the labeled areas on the body. Align the "U.S.M.C." printed on part 9 to the ones printed on the body.

PART 10 - fold and glue at the bottom of part 9 on the lower conic (part 7).

PART 11 (Fins) - cut out the blue areas. fold and glue in half. Glue each onto one of the 4 long lines on the body.

Your model is done.



Nose Cone

