

Sergeant-Hydac Sounding Rocket



Between 25 February and 12 March 1981, the U.S. Air Force's BMO (Ballistic Missile Organization) launched three Sergeant-Hydac two-stage solid-fueled rockets on HAVE SLED test missions.

HAVE SLED was a program to collect data for algorithms to discriminate ICBM reentry warheads from decoys. Between 16 December 1983 and 2 February 1984, three Talos-Sergeant-Hydac three-stage rockets were launched under program HAVE SLED II, which presumably had a similar purpose as the original HAVE SLED. Talos-Sergeant-Hydac rockets were also used in the 1987/88 time frame for the HAVE JEEP VII test series.

Two stage vehicle consisting of 1 x Sergeant + 1 x Hydac

Gross mass: 4,800 kg (10,500 lb)

Height: 13.80 m (45.20 ft)

Diameter : 1st stage: 79 cm (31 in)

2nd stage: 23 cm (9 in)

Weight: 4800 kg (10600 lb)

Altitude: 400 km (250 miles)

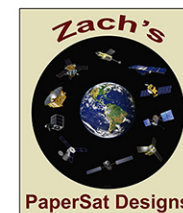
Propulsion: 1st stage: Thiokol Sergeant; 220 kN (49400 lb) for 23.8

2nd stage: Space Data Hydac; 58.7 kN (13200 lb)

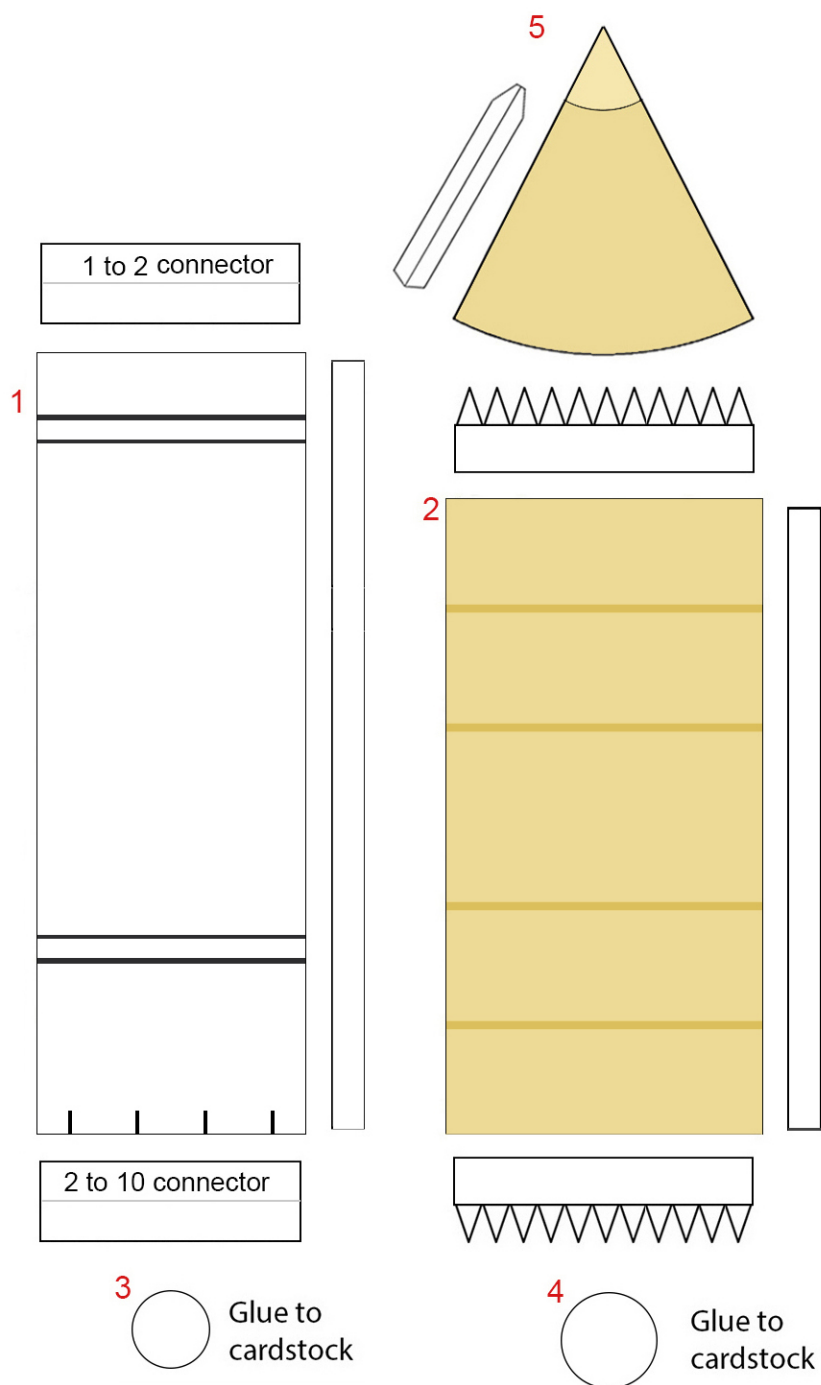


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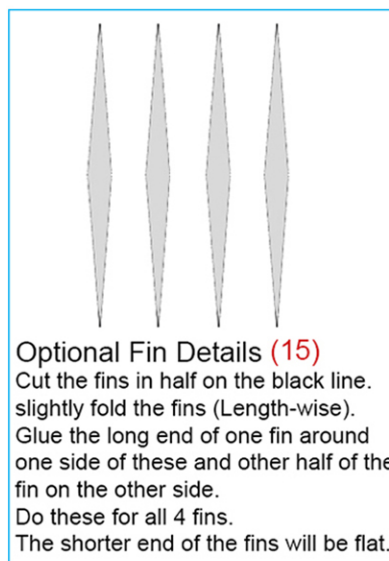
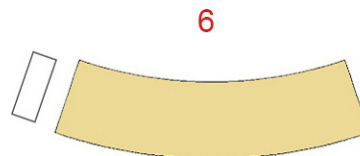
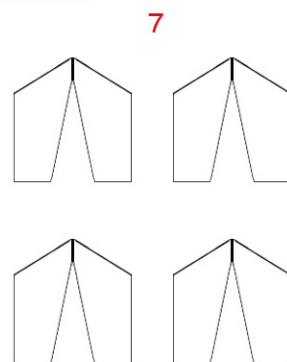
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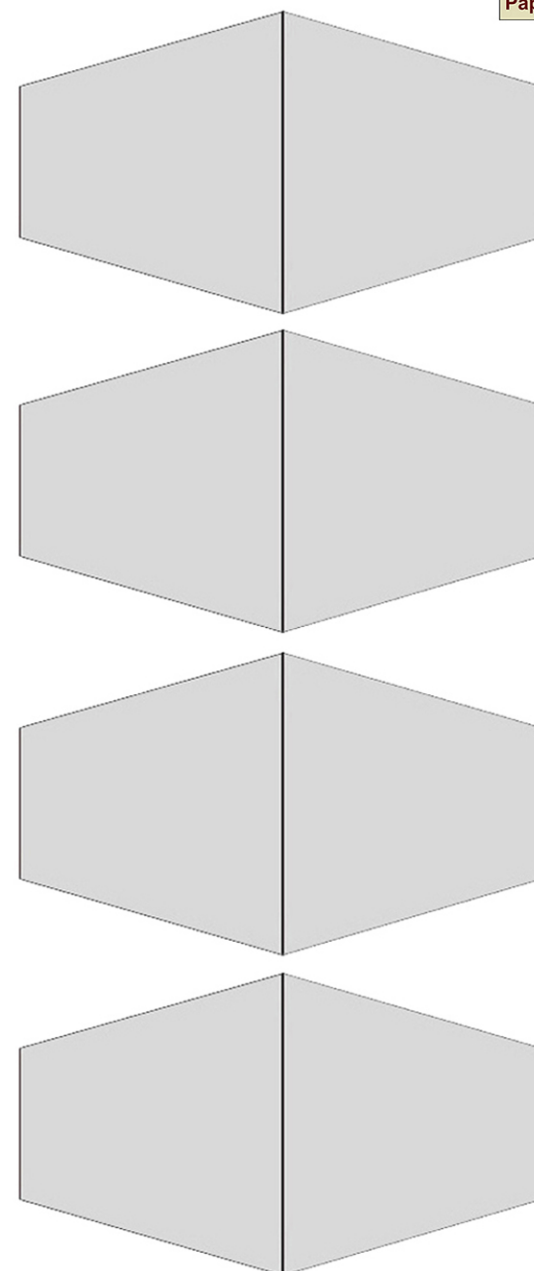
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Score and fold the fins in half.



15 Score and fold fins in half



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