

## H-I Rocket



The H-I or H-1 was a Japanese liquid-fuelled carrier rocket, consisting of a American first stage a set of booster rockets, and all-Japanese upper stages. It was launched nine times between August 1986 and February 1992. All were successful.

The first stage of the H-I was a licence-built version of the Thor-ELT, which was originally constructed for the US Delta 1000 rocket. The stage had already been produced under licence in Japan for the N-I and N-II rockets.

The second stage was entirely Japanese, using an LE-5 engine. On launches to Geosynchronous transfer orbits, a Nissan-built UM-69A solid motor was used as a third stage. Depending on the mass of the payload, either six or nine US Castor 2 SRMs were used as booster rockets.

The H-I's first-stage and strap-on boosters are identical to its predecessor, the N-II predecessor.

H-1 provided a substantial payload increase over N-2 and served as a stepping stone to Japan's subsequent home-built H-2 launch vehicles that first flew in February 1994.

|                   |                                                                        |
|-------------------|------------------------------------------------------------------------|
| Function          | Carrier rocket                                                         |
| Manufacturer      | McDonnell Douglas (design)<br>Mitsubishi Heavy Industries (production) |
| Country of origin | Japan (production)<br>United States (design)                           |

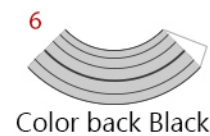
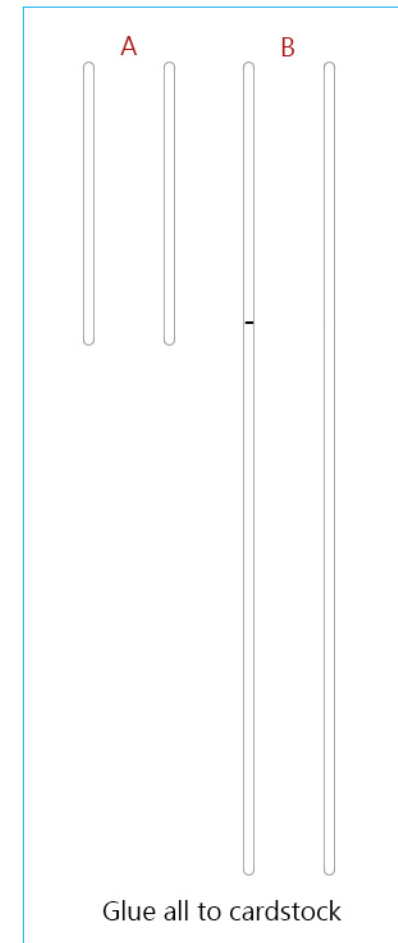
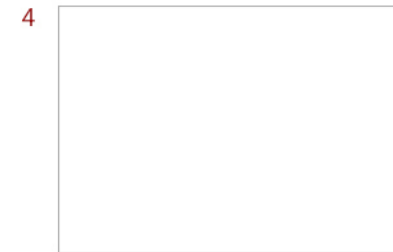
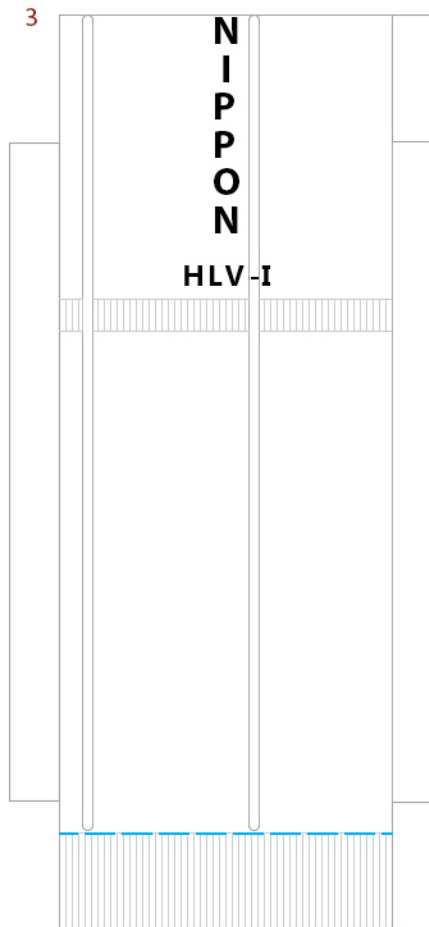
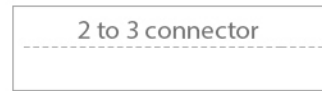
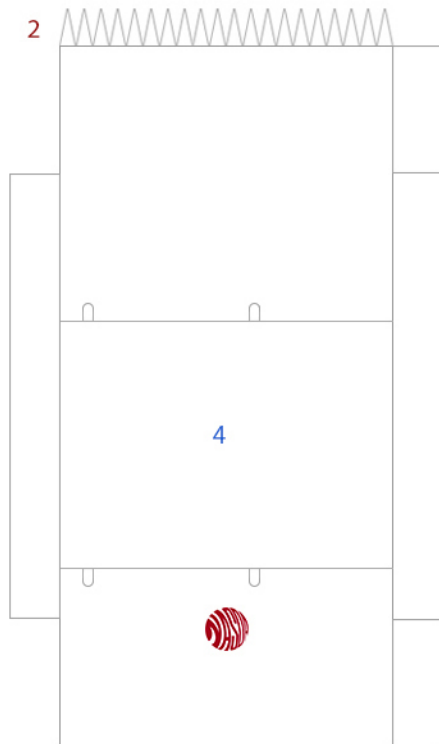
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|----------|--------------------------------|
| Size     |                                |
| Height   | 42 metres (138 ft)             |
| Diameter | 2.44 metres (8.0 ft)           |
| Mass     | 142,260 kilograms (313,630 lb) |
| Stages   | 2 or 3                         |

Zach's

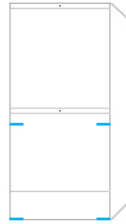
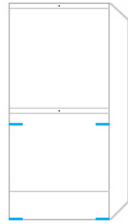
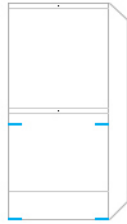
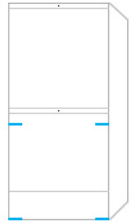
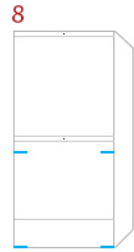


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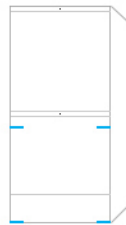
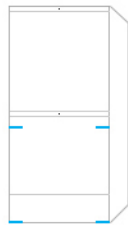
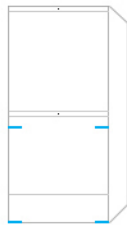
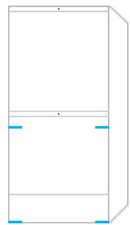
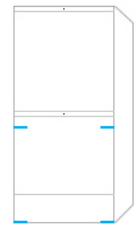


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