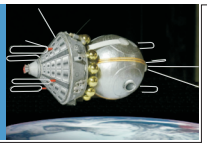
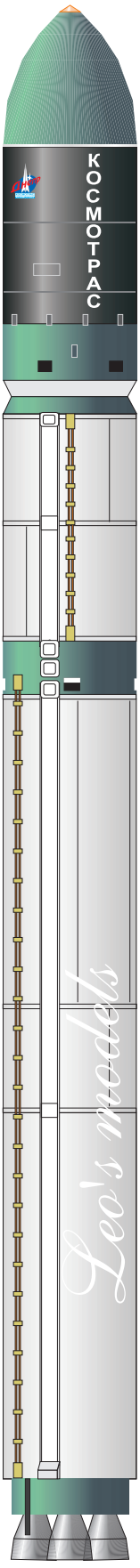
Cardmodels-R



www.cardmodels-r.narod.ru

DNEPR LV

1:96 scale Version 2



The Dnepr launch vehicle (LV) is based on the R-36M UTTH Intercontinental ballistic missile (ICBM) – called the SS-18 by NATO – designed in the 1970s by the Yuzhnoe Design Bureau in Dnipropetrovsk, Ukraine. Dnepr control system was developed and produced by the JSC "Khartron", Kharkiv.

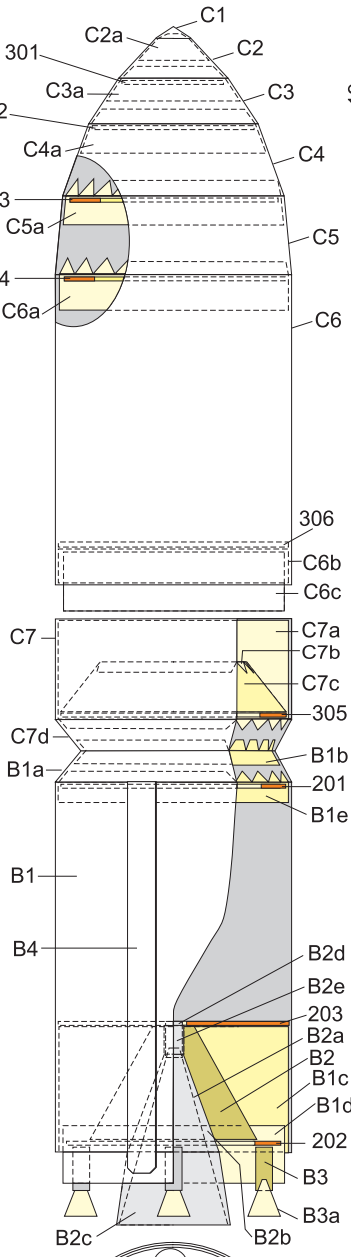
The Dnepr is a three-stage rocket using storable hypergolic liquid propellants. The LV 1st and 2nd stages are original SS-18 stages and used without any modification. 3rd stage is an original SS-18 3rd stage with upgraded control system that enables implementation of the required flight program of the 1st, 2nd and 3rd stages, forming and issuing commands to payload and Space Head Module (SHM) separation devices and getting the 3rd stage and remaining SHM elements off the injection orbit after the separation of all the payloads.

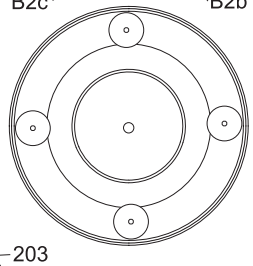
The launch vehicles used for satellite launches have been withdrawn from ballistic missile service and stored for commercial use. The Dnepr is launched from the Russian-controlled Baikonur cosmodrome in Kazakhstan and the Dombarovsky launch base, near Yasny, in the Orenburg region of Russia.

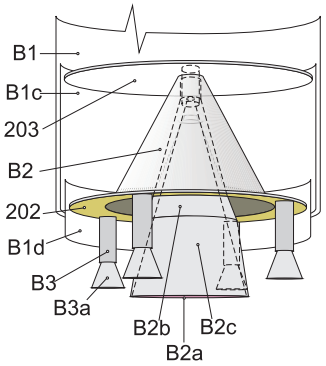
The main difference from ICBM is the payload adapter located in the SHM and modified flight-control unit. This baseline version can lift 3,600 kg into a 300 km low earth orbit at an inclination of 50.6°, or 2,300 kg to a 300 km sun-synchronous orbit at an inclination of 98.0°. On a typical mission the Dnepr deploys a larger main payload and a secondary payload of Miniaturized satellites and CubeSats.

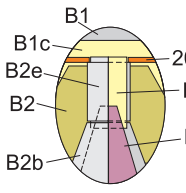
Launch type – steam ejection from Transport and Launch Canister (TLC).

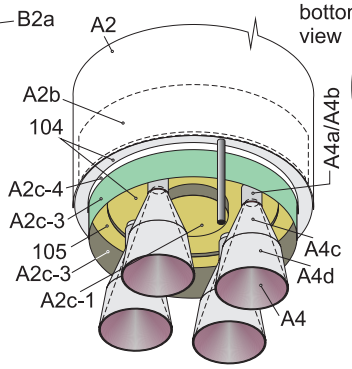
www.kosmotras.ru/en/rn_dnepr/
https://en.wikipedia.org/wiki/Dnepr-1

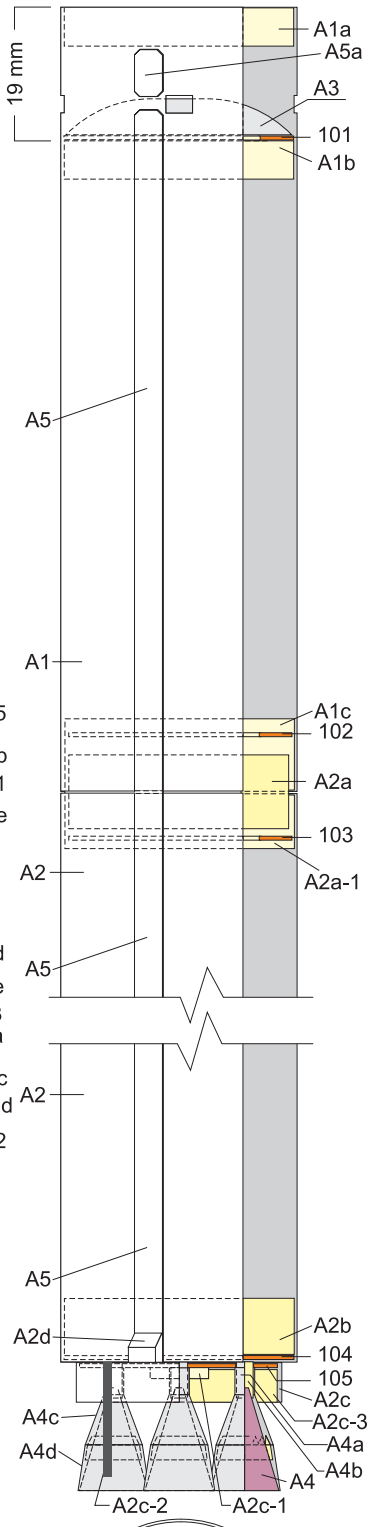


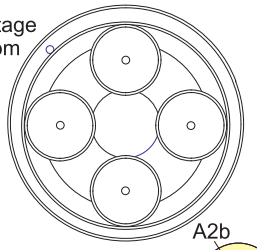


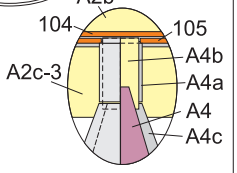






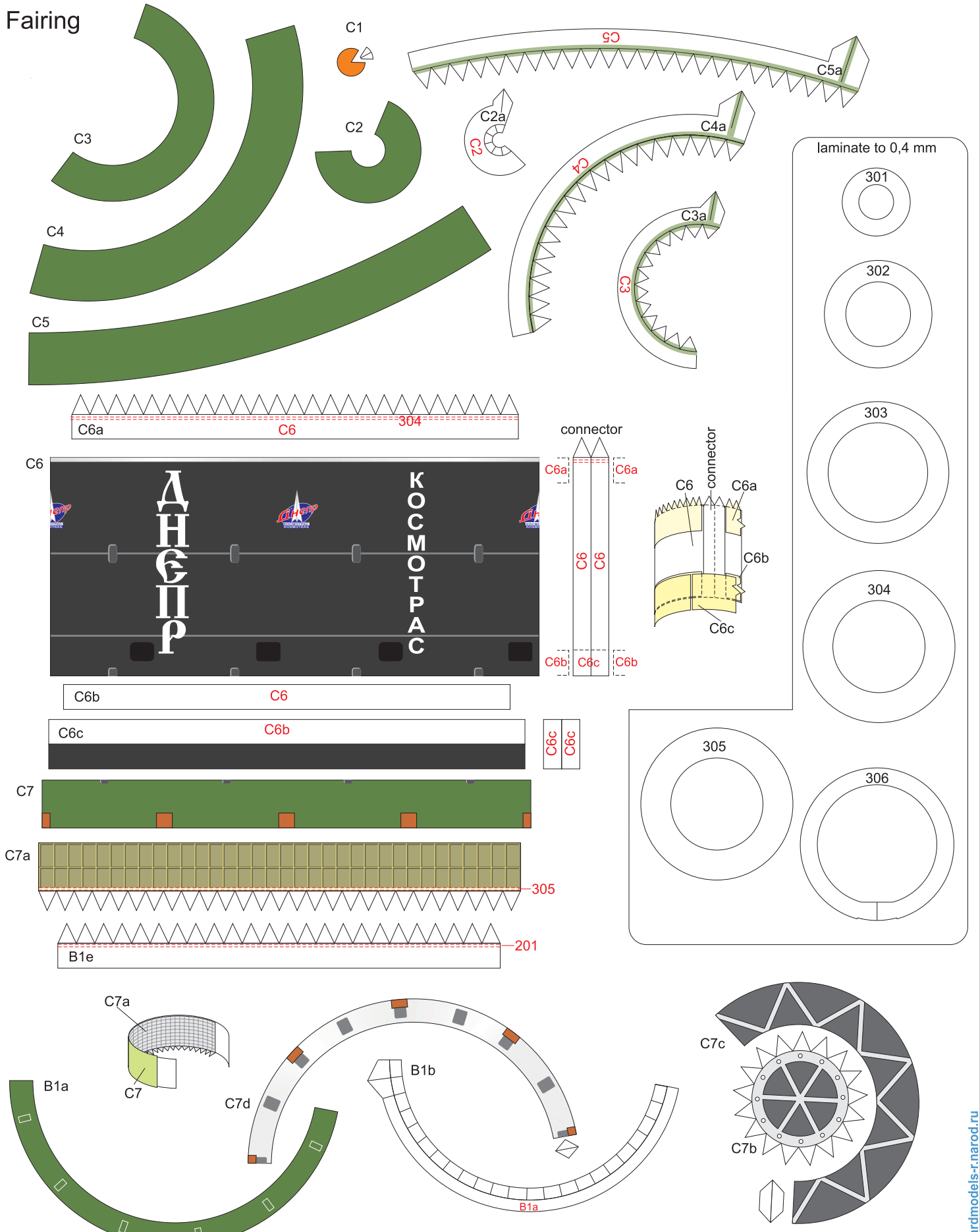




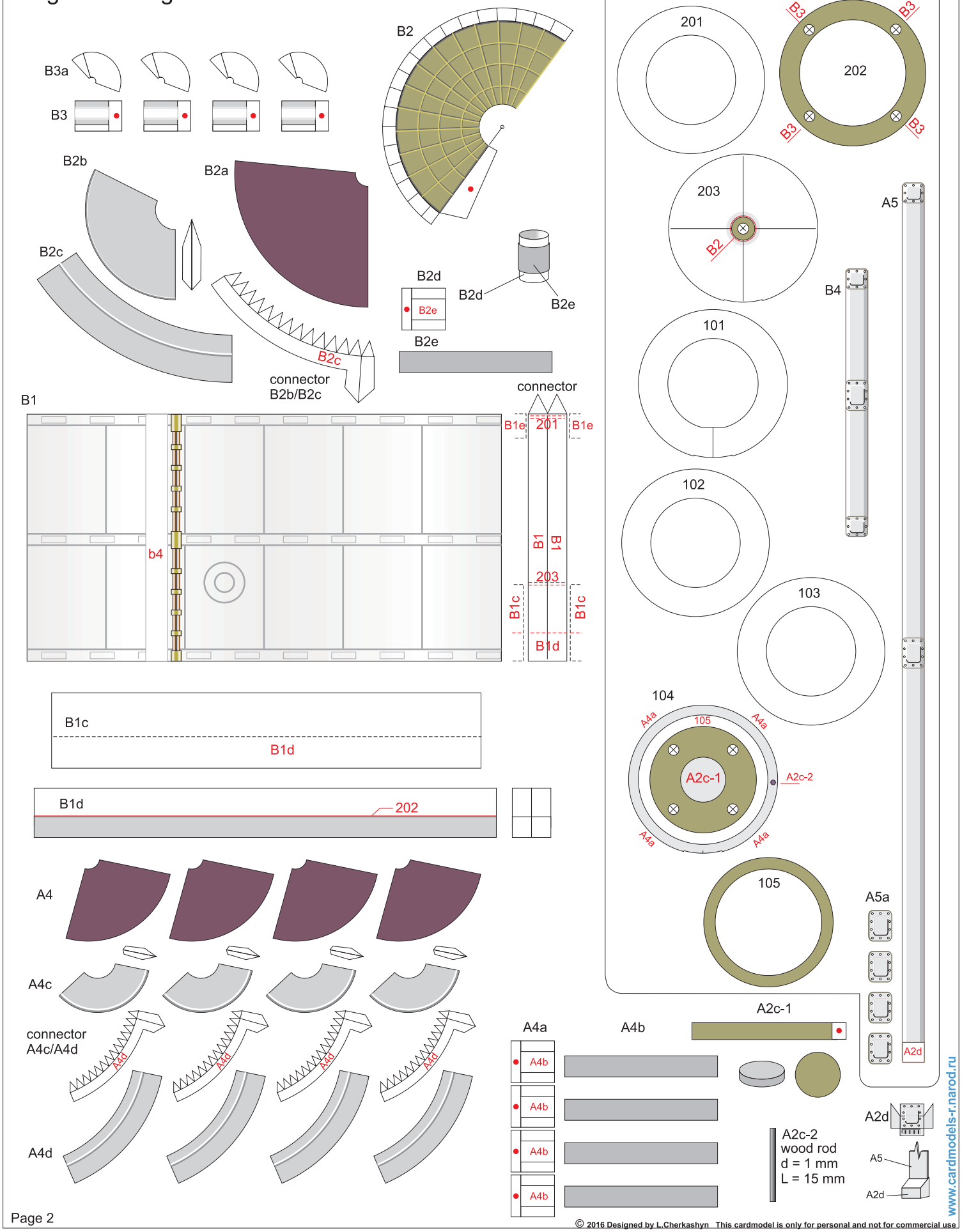


Paper used:
0,18 mm - 130 gr

Fairing



Stage B & Stage A



Stage A