



# Brick Train Awards

Entry for Best LEGO®  
Electric Locomotive Award

## SunPiercer

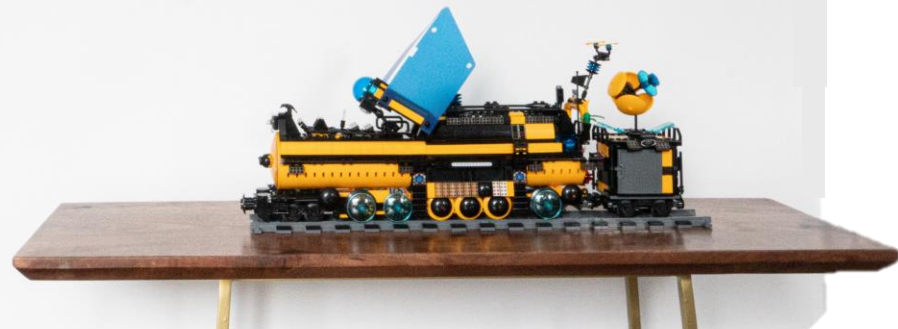
Concept JDK | July 20  
[www.jdkatanga.com](http://www.jdkatanga.com)



Retro-futuristic sun-  
powered electric  
locomotive with  
a retractable solar sail



The SunPiercer is a heavy duty solar-powered locomotive equipped with a retractable high-efficiency solar dual kite and hybrid propulsion.



It is designed to travel off-grid on long straight distances at a cruise speed of 80-120 km/h through arid outback or hostile deserts.

On certain versions, the SunPiercer reconverts the front section into an hydrogen tank for more autonomy and versatility.

The power storage wagon is its travelling body and battery.

The SunPiercer is operated by a crew of 4.



**Specs** Retractable solar sail, opening roof (using link treads, part 57518), hidden compartment, oversized cylindric 'boiler' and short hood with the drone charge station 8x8 dish element (part 3961pb10) from Overwatch's sets. Two interior spaces for minifigs. Front space can hold a power function (or a pilot cabin). Homage to set 75111 (crew and stickers). Battery storage carriage (as a futuristic reinterpretation of the 75111's mineral and prison wagons). Solar sail borrowed from set 7471 and fully articulated. Trans-dark blue dome as 'chimney crown' when sail retracted. Three solar techs onboard (fixed-tilt panels, solar sail and concentrated PV). Trans-clear fan as a reminiscent embellishment of the bell and safety valve.

**Dimensions** (cm) Length 40 and 50 with carriage; height 14 and 26 with sail deployed, width 7 for hull and 18 for the solar kite.

Fully articulated solar sail, borrowed from set 7471

Removable panel for space for power function or control cabin

Retractable roof

Inclusion of pantographs

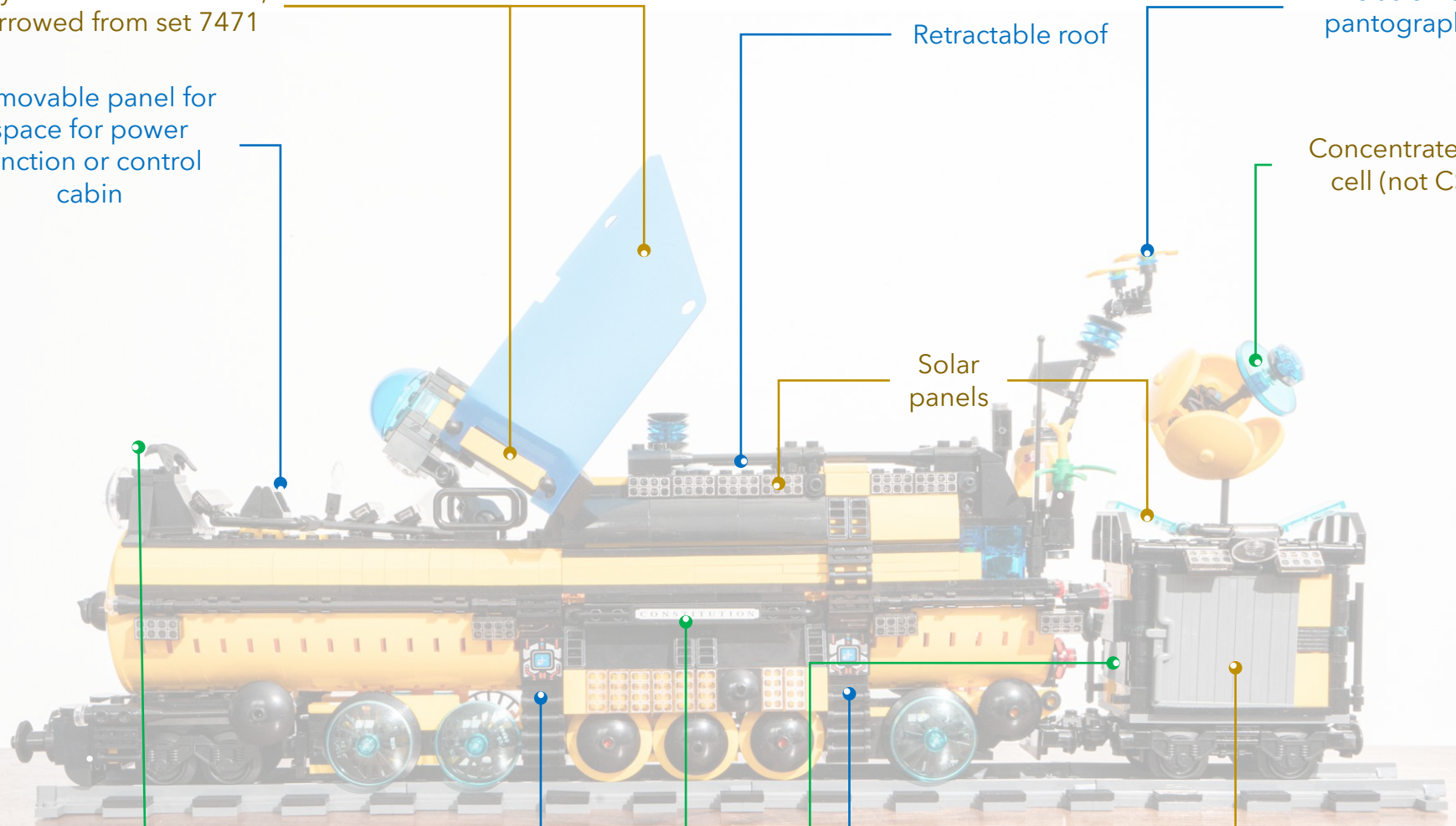
Concentrated PV cell (not CSP)

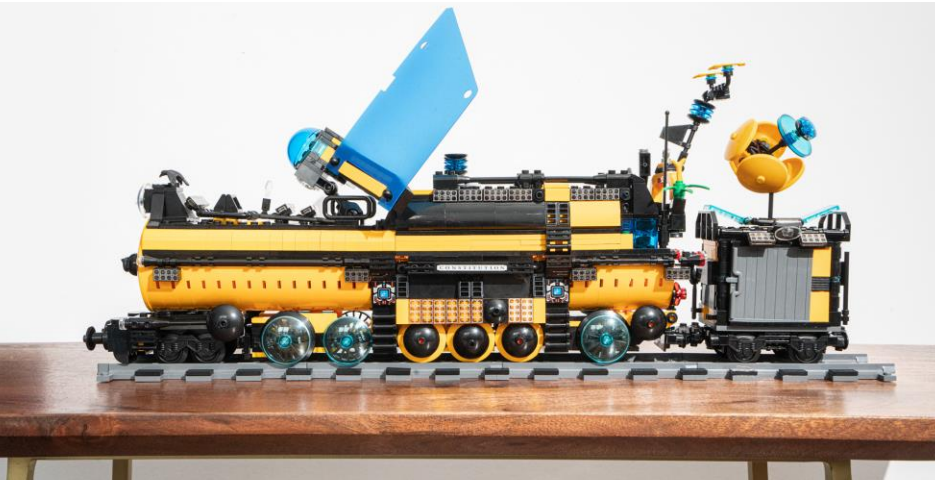
Solar panels

Homage to set 75111 (crow and stickers).

Space and spec for articulations to turn and accommodate curved railways

Fuel cells or power storage wagon

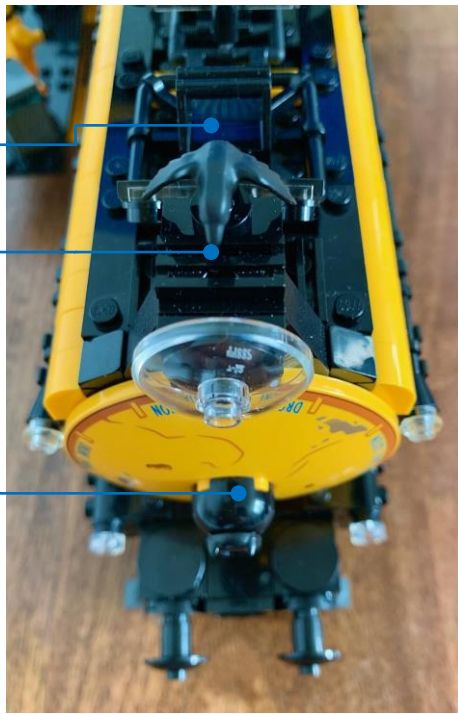




Removeable ceiling  
8x4 plate

Crow headgear  
accessory from set  
75111

Drone charger station  
8x8 dish



Solar kite "vault"

