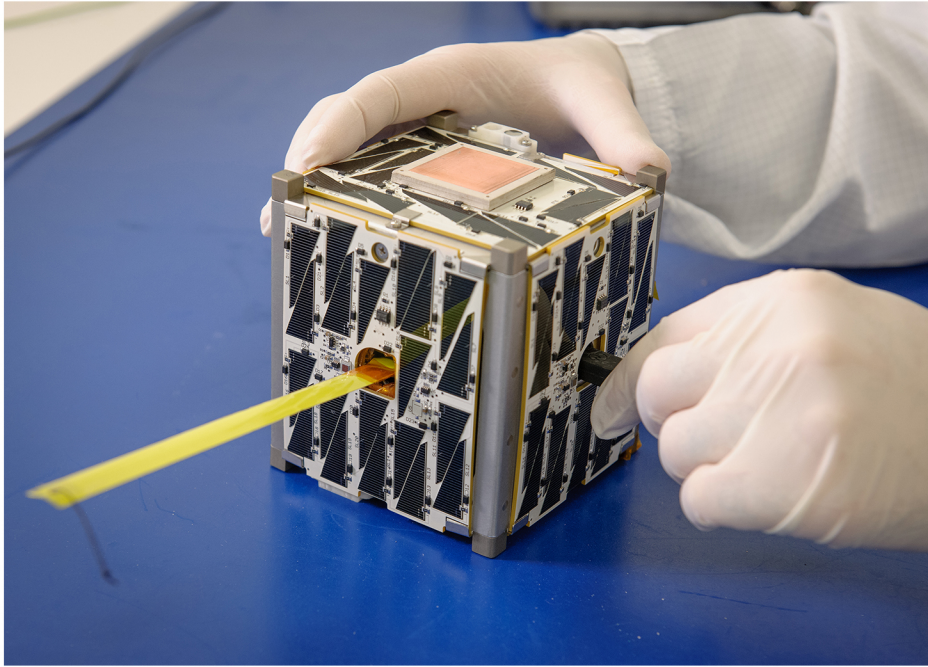


PhoneSat 2.5



PhoneSat 2.5, fifth in the series of PhoneSat nanosatellite technology demonstration missions developed by NASA Ames Research Center, launched into space on April 18, 2014 aboard the Space Exploration Technologies (SpaceX 3) Falcon 9 rocket from Cape Canaveral Air Force Station. PhoneSat 2.5 follows the success of PhoneSat 1.0, 2.0 Beta and 2.4, continuing the innovative use of smartphone technology in small satellites and serving as a technology demonstration.

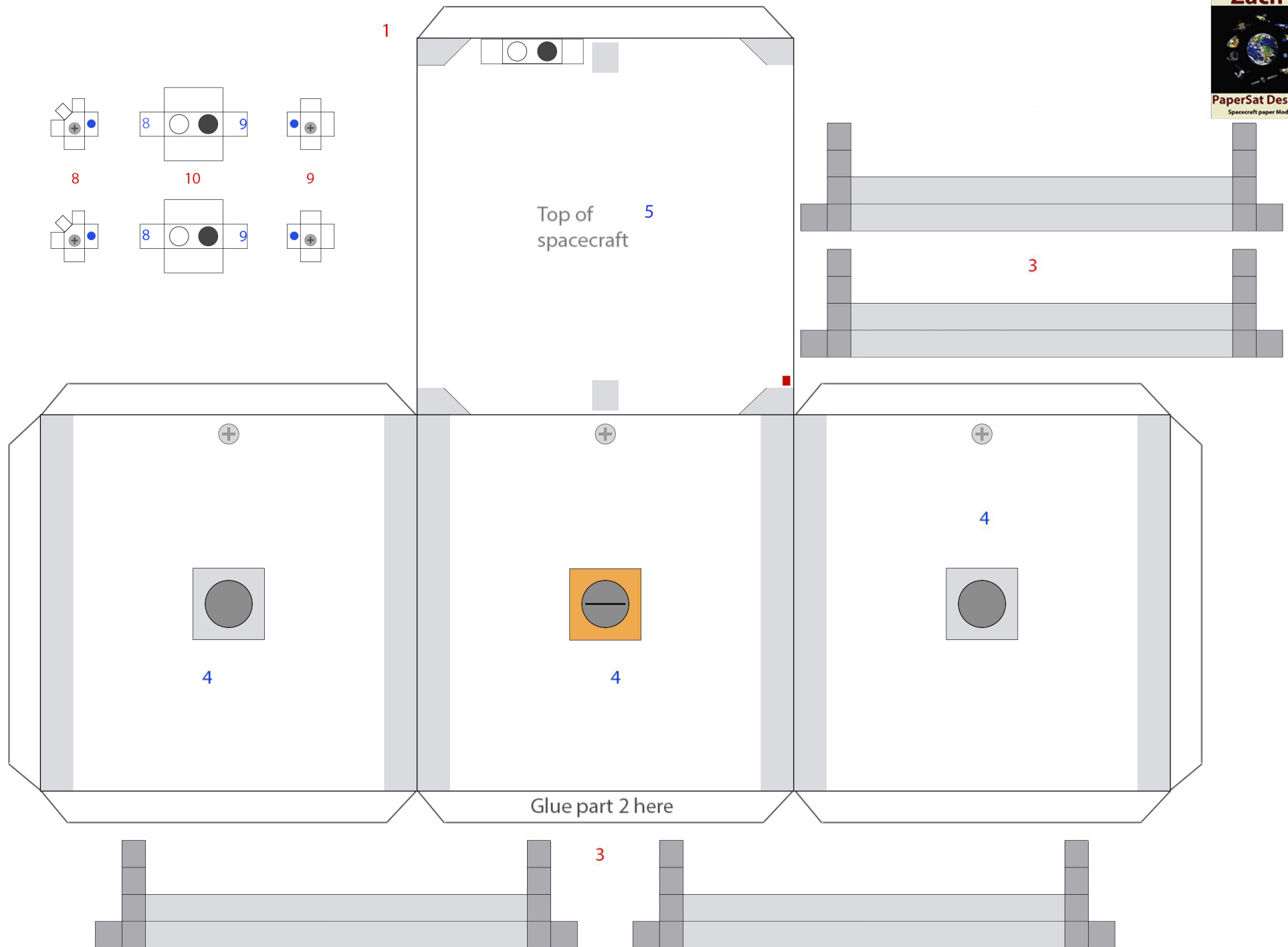
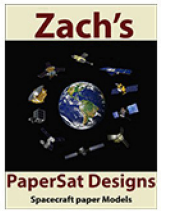
PhoneSat 2.5 has three primary objectives: determine if a low-cost commercially available attitude determination and control system (ADCS) can work adequately in space; verify if Google's Android™ processor can support space-based communications, systems; and with an expected orbital life-time of up to 6 weeks, provide further confidence in the PhoneSat concept and components by investigating radiation survivability.

PhoneSat 2.5 shares the same form factor as PhoneSat 2.4, launched in November of 2013. Both nanosatellites are 1-unit (1U) cubesats - a satellite in a 10 cm cube (approx. 4 inches each side). Both are built around the same Nexus S smartphone running Google's Android™ operating system. Different from PhoneSat 2.4, PhoneSat 2.5 has a higher-gain S-Band antenna, which also serves as a pathfinder for EDSN's S-band command and telemetry architecture.

The PhoneSat project is series of a technology demonstration missions funded by the Small Spacecraft Technology Program (SSTP), one of nine programs within NASA's Space Technology Mission Directorate, and the Engineering Directorate at NASA Ames Research Center. The SSTP develops and matures technologies to enhance and expand the capabilities of small spacecraft with a particular focus on communications, propulsion, pointing, power, and autonomous operations.

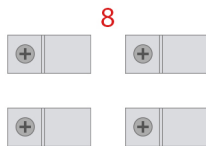
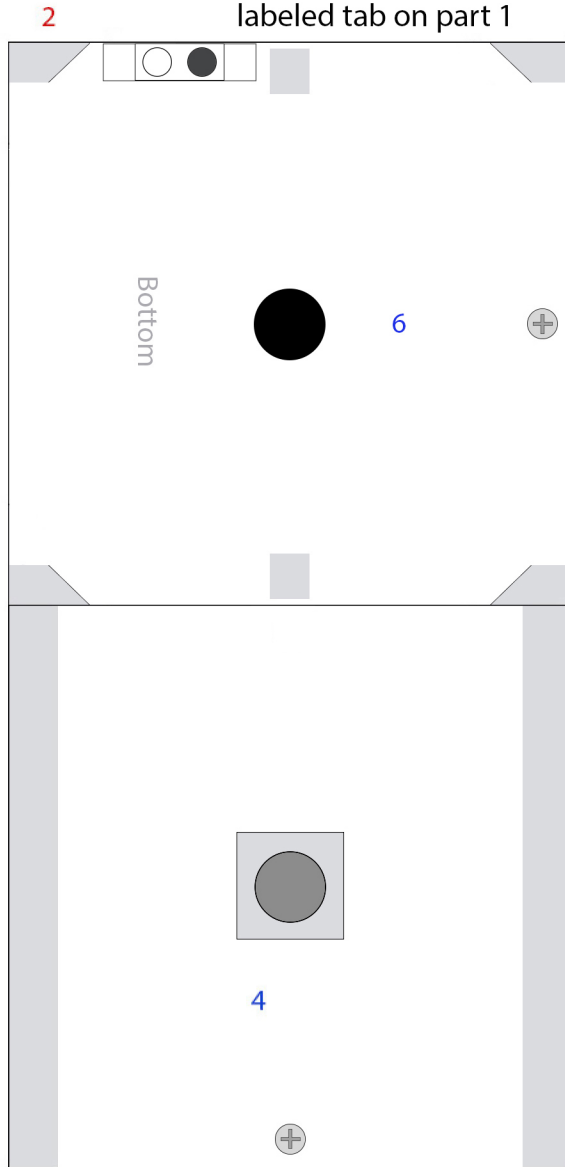


PhoneSat 2.5

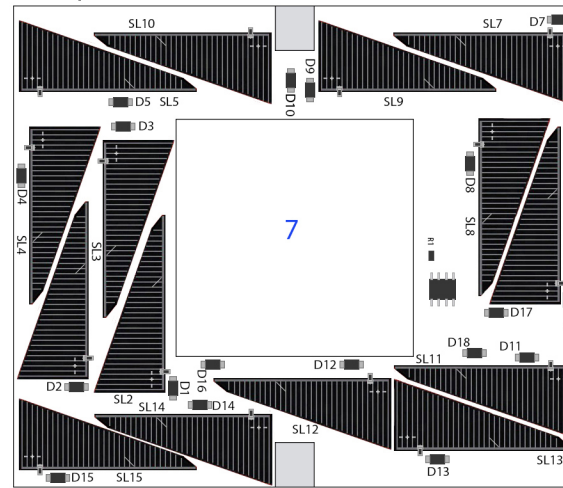


PhoneSat 2.5

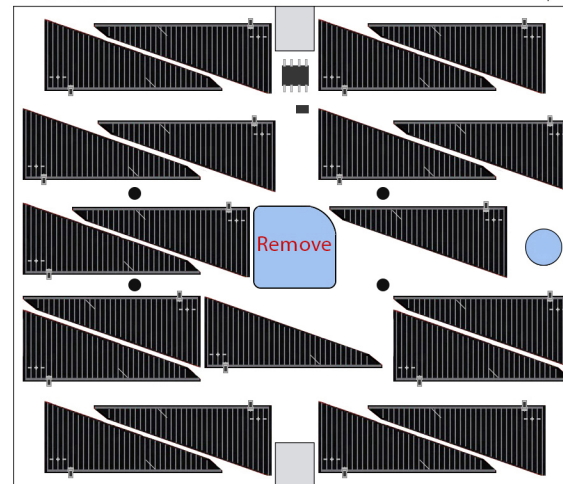
Glue this end to the
labeled tab on part 1



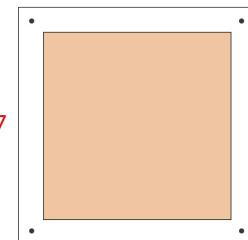
5 Top



6 Bottom



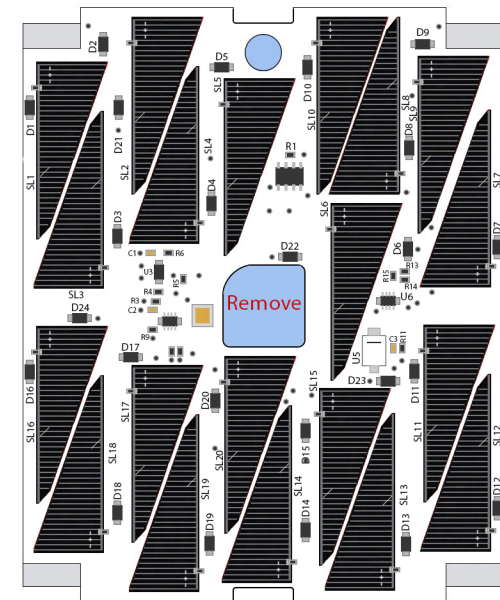
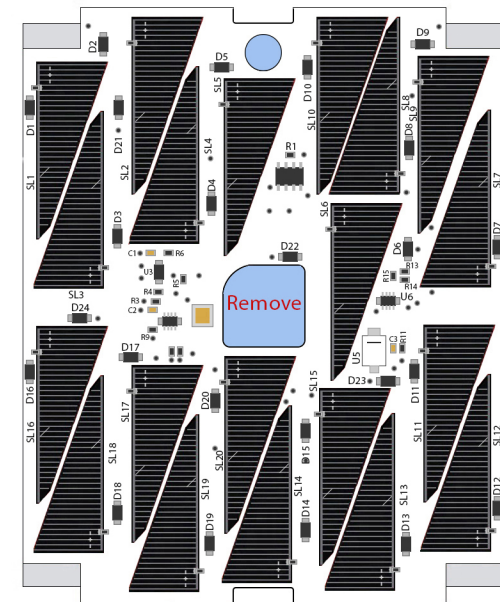
7



Glue to three (3)
layers of cardstock

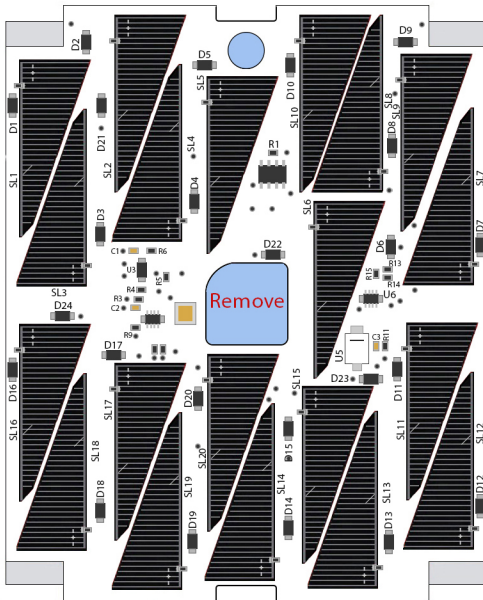
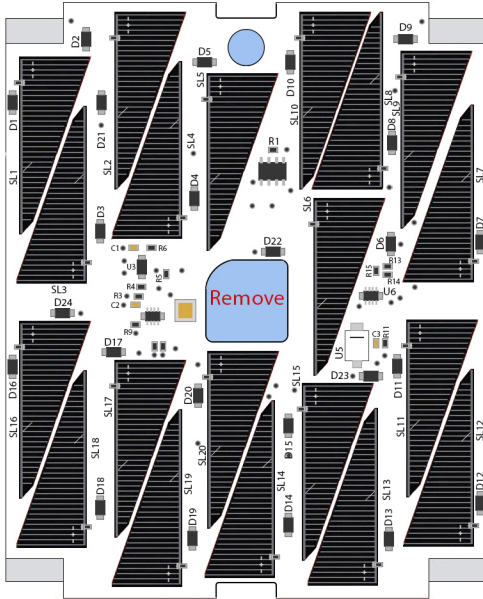
4

Glue to two layers of cardstock, color
edges gold, cut out the blue areas

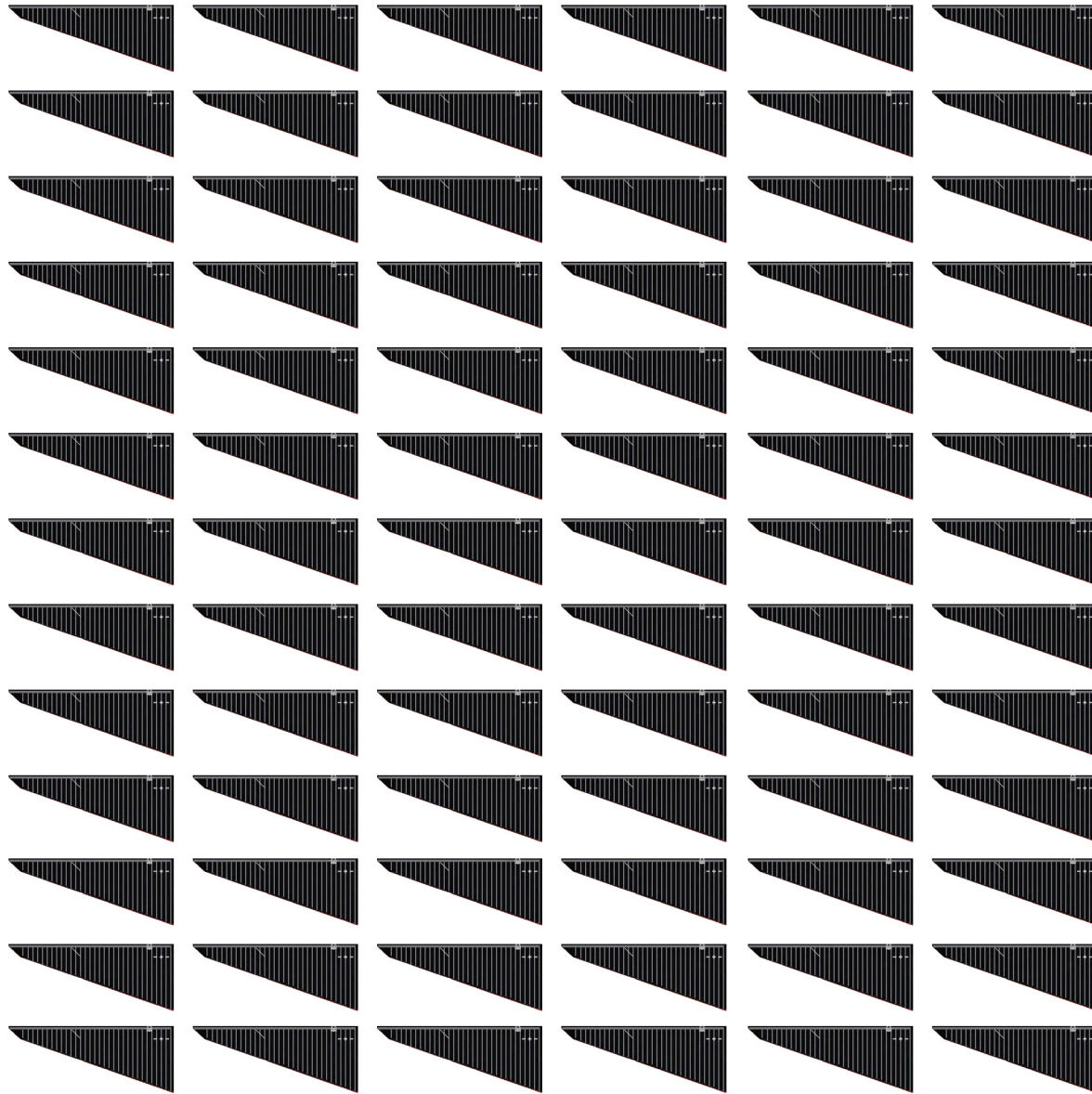


PhoneSat 2.5

- 4 Glue to two layers of cardstock, color edges gold, cut out the blue areas



Optional Detail parts, color edges black.



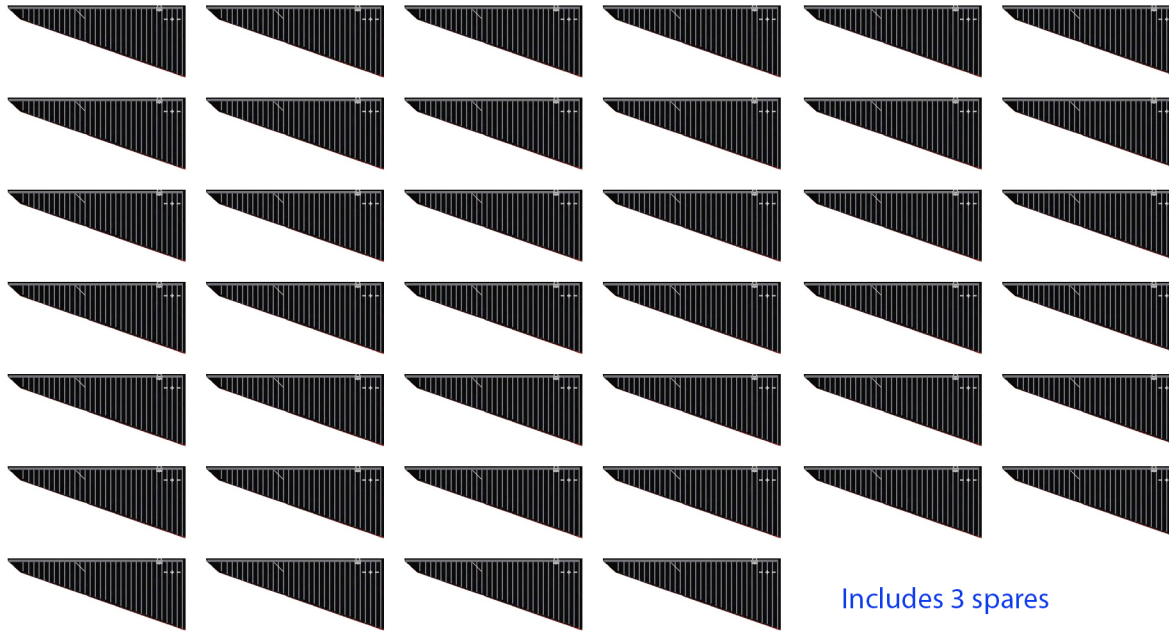
11



Glue these back-to-back

PhoneSat 2.5

Optional Detail parts, color edges black.



Includes 3 spares