

# Parker Solar Probe gets its revolutionary heat shield

27 September 2017



On Sept. 21, 2017, engineers at the Johns Hopkins University Applied Physics Laboratory in Laurel, Maryland, lowered the thermal protection system – the heat shield – onto the spacecraft for a test of alignment as part of integration and testing. Credit: NASA/JHUAPL

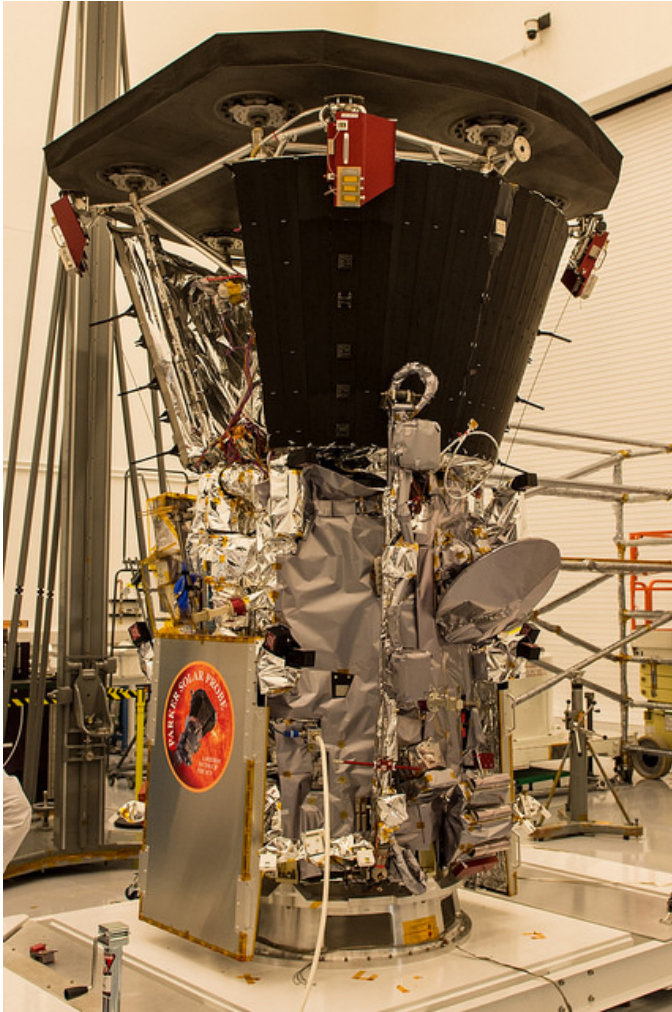
On Sept. 25, 2017, media were invited to see NASA's Parker Solar Probe in its flight configuration at Johns Hopkins Applied Physics Laboratory in Laurel, Maryland, where it is being built. The revolutionary heat shield that will protect the first spacecraft to fly directly into the Sun's

atmosphere was installed for the first time on Sept. 21. This is the only time the spacecraft will have its thermal protection system—which will reach temperatures of 2,500 degrees F while at the Sun—attached until just before launch.

Parker Solar Probe is scheduled for launch on July 31, 2018, from Cape Canaveral Air Force Station, Florida. The spacecraft will explore the Sun's [outer atmosphere](#) and make critical observations that will answer decades-old questions about the physics of how stars work. The resulting data will improve forecasts of major space weather events that impact life on Earth, as well as satellites and astronauts in space.



Nicola Fox, the project scientist for NASA's Parker Solar Probe, at Johns Hopkins University Applied Physics Laboratory in Laurel, Maryland, answers media questions on Sept. 25, 2017, in the clean room at Johns Hopkins University Applied Physics Laboratory in Laurel, Maryland, with the spacecraft in the background. Credit: NASA



NASA's Parker Solar in the clean room at Johns Hopkins University Applied Physics Laboratory in Laurel, Maryland, on Sept. 25, 2017. It is shown with the thermal protection system – the heat shield – on top, which is one of the few times it is integrated with the space craft before it launches. Credit: NASA

Provided by NASA

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