

# Pioneer 10 wikipedia



## Overview

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Pioneer 10 (originally designated Pioneer F) is a NASA space probe launched in 1972 that completed the first mission to the planet Jupiter. Pioneer 10 became the first of five artificial objects to achieve the escape velocity needed to leave the Solar System. This space exploration project was conducted by the NASA Ames Research Center in California. The space probe was manufactured by TRW Inc. Mission type Planetary / Heliosphere exploration Operator / COSPAR ID SATCAT no. 5860 How Pioneer 10 Changed Space Exploration In 1972, NASA launched a historic mission to the outer planets, named Pioneer 10. It was the first spacecraft to cross the asteroid belt and the first to visit Jupiter. In the 1960s, American aerospace engineer of the NASA conceived of a mission, known as the *Grand Tour*, that would exploit a rare alignment of the outer planets of the Solar System. Pioneer 10 was launched on March 3, 1972, at 01:49:00 UTC (8:49 p.m. Eastern Standard Time on March 2) by the *Delta* rocket from *Cape Canaveral Air Force Station* in Florida, aboard an *Earth-orbiting satellite*. On July 18, 2023, *Voyager 2* overtook Pioneer 10, making Pioneer 10 the third farthest spacecraft from the Sun after *Voyager 1* and *Voyager 2*. As of July 2025, the probe is estimated to be 139.7 AU (20.9 light years) from Earth. Because it was strongly advocated by *Carl Sagan*, Pioneer 10 and Pioneer 11 carry a 152 by 229 mm (6.0 by 9.0 in) gold-anodized aluminum in case either spacecraft is ever found by intelligent life-forms from *another planet*.

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### [Pioneer 10 and 11, outer solar system . The Planetary Society](#)

NASA's Pioneer 10 mission launched on March 2, 1972, followed by Pioneer 11 on April 5, 1973. Pioneer 10 is credited with being the first spacecraft to traverse the asteroid belt and fly by Jupiter.

### Pioneer 10

Pioneer 10 was NASA's first mission to the outer planets. The mission was a spectacular success and the spacecraft notched a series of firsts unmatched by any other robotic spacecraft to



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### Pioneer 10 , Space Wiki , Fandom

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### The Outer Planets: Missions:



## Pioneer 10 & 11

Pioneer 10 was the first spacecraft to travel through the Asteroid belt and the first to make direct observations of an outer planet. Pioneer 10's mission was to study Jupiter's atmosphere,

### Pioneer 10

Find out information about Pioneer 10, the first spacecraft to have overcome the escape velocity from the Solar System. Learn about its mission, the design of the spacecraft, its instrumentation and its



### What is Pioneer 10? (with pictures)

Pioneer 10 is an unmanned space probe, the first ever to cross the asteroid belt and study Jupiter and its moons. Launched on 2 March 1972, Pioneer 10 is also the first probe to reach

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