

# From Cruise Missiles to Business Jets: *The Journey of the Williams FJ44 Engine*

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August 2024

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## **Executive Summary:**

The Williams International FJ44 engine transformed the business aviation industry by evolving from military cruise missile technology into one of the most successful turbofan engines used in modern light business jets. Originally derived from the F107 engine that powered American cruise missiles like the Tomahawk and ALCM, the FJ44 introduced a lightweight, fuel-efficient, and highly reliable design that helped launch an entirely new category of private jets for sale. The engine became widely known through its use in aircraft like the Citation CJ series, Pilatus PC-24, and other popular business jets for sale. Today, the Williams FJ44 family continues to power thousands of aircraft globally and remains a landmark innovation for buyers, operators, and private jet experts evaluating light jets for sale.

## **Key Takeaways:**

- The Williams FJ44 engine originated from cruise missile technology before becoming one of the most influential engines in business aviation history.
- The FJ44 helped create a new category of light jets for sale by delivering exceptional fuel efficiency, lightweight design, and simplified reliability.
- The Cessna CitationJet became the first production aircraft powered by the FAA-certified FJ44 engine, significantly improving speed, range, and fuel burn compared to earlier Citation models.
- Today, Williams FJ series engines power more than 3,000 business jets worldwide, including aircraft frequently featured by private jet brokers and private jet experts.

## **FAQ:**

### ***What is the origin of the Williams FJ44 engine used in many private jets for sale?***

The Williams FJ44 engine originated from the F107 cruise missile engine that powered military systems like the Tomahawk and Air-Launched Cruise Missile before being adapted for business aviation.

### ***Which aircraft commonly use the Williams FJ44 engine?***

The FJ44 powers several popular business jets for sale, including the Citation CJ series, Pilatus PC-24, Premier I/IA, and various retrofit aircraft applications.

### ***Why was the Williams FJ44 engine important to the business aviation industry?***

The FJ44 introduced a lightweight, fuel-efficient, and highly reliable engine platform that helped create the modern light jet category and improved aircraft performance significantly.

### ***How did the FJ44 improve the performance of the Cessna CitationJet?***

Compared to earlier Citation models, the FJ44-powered CitationJet flew nearly 40% faster, 15% farther, and used 17% less fuel while maintaining similar operating weights.

### ***How widely used are Williams FJ series engines today?***

Williams FJ series engines currently power more than 3,000 aircraft worldwide, making them a major part of the global market for private jets for sale and light business aviation aircraft.

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