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## **J 58 Engine**

The Pratt & Whitney J58 (company designation JT11D-20) was an American jet engine that powered the Lockheed A-12,

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and subsequently the YF-12 and the SR-71 aircraft. It was an afterburning turbojet with a unique compressor bleed to the afterburner which gave increased thrust at high speeds. Because of the wide speed range of the aircraft the engine needed two modes of operation to take it from ...

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## - **Wikipedia**

The engine was designed to operate for extended speeds of Mach 3+ and at altitudes of more than 80,000 ft. The J58 was the first engine designed to operate for extended periods using its afterburner, and it was the first engine to be flight-qualified at Mach 3 for the Air Force. Two J58s power the SR-71 as well as the YF-12A and most of

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the A-12s.

## **SR-71 Online - J58 Engine**

The J58 had its origins in the bigger JT9 (J91) engine. It was a 3/4 scale JT9 with a mass flow of 300 lb/s, down from 400 lb/s and known by the company designation JT11.[3] The JT11 was initially proposed for the US Navy, hence its Navy designation J58.[3]

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## **J58 The Powerplant for the Blackbirds**

The J58 was the first engine designed to operate for extended periods using its afterburner, and it was the first engine to be flight-qualified at Mach 3 for the Air Force. The J58 was only used on the Lockheed YF-12 interceptor and its descendents, the A-12 and SR-71.

**The SR-71 Pratt &**  
*Page 7/23*

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## **Whitney JT11D-20B J58 Engine**

It's been called "black magic": an engine that can push a plane from 0 to Mach 3.2 without breaking a sweat.

Here's how it works. Be sure to SUBSCRIBE to Tec...

## **The Mighty J58 - The SR-71's Secret Powerhouse - YouTube**

A Pratt & Whitney J58  
in the test stand at



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Edwards AFB preparing for the last run of this great engine. Note the beefy cables and steel rods to tie this giant down. The evening of Thursday, September 12, 2002 was the last time a Pratt & Whitney J58 filled the night sky at Edwards AFB with noise and light.

**P&W J58 -  
enginehistory.org**

Related Article:  
Experience SR-71

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Blackbird J58 engine test in full afterburner. The J58 was specifically tailored for operation at extreme speeds, altitudes, and temperatures, and was the first aircraft engine to be flight-qualified for the Air Force at Mach 3. At maximum output, the fuel flow rate in the J58 is about 8,000 gallons per hour ...

**How Pratt & Whitney  
J58 Engine Made The**

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## **SR-71 Blackbird ...**

Pratt & Whitney J58 / JT11D . J58 . The Pratt & Whitney J58 (company designation JT11D) was a jet engine used on the Lockheed A-12, and subsequently on the YF-12 and SR-71 aircraft. The J58 was a single-spool turbojet engine with an afterburner. The J58 was initially developed for the US Navy to power the planned version of the Martin

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P6M jet ...

## **Pratt & Whitney J58 / Pratt & Whitney JT11D**

Beale AFB SR-71 Test Cell. 1986 timeframe. This engine run was performed by MSgt John Wiltison. For more SR Engine info see this <https://youtu.be/F3ao5SCedlk>

## **J 58 SR 71 Engine Test Cell - YouTube**

The General Electric

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T58 is an American turboshaft engine developed for helicopter use. First run in 1955, it remained in production until 1984, by which time some 6,300 units had been built. On July 1, 1959, it became the first turbine engine to gain FAA certification for civil helicopter use.

## **General Electric T58 - Wikipedia**

The J-58 Engine.

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Starting the SR-71  
Blackbird's J58 Engines  
- AG330 Start Cart.

Author: Blackbird  
Historian / Categories:  
Engines / Rate this  
article: 3.7. The  
AG-330 Start Cart  
originally were Buick  
wildcat 401 cubic inch  
V-8 engines developing  
400 horsepower.

**Starting the SR-71  
Blackbird's J58  
Engines - AG330  
Start Cart**

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SR-71 J-58 Engine In  
Afterburner on the Test  
Cell at Beale AFB, Ca.  
J-58 Engine Testing in  
Afterburner at test cell  
A-1 at Pratt and  
Whitney's West Palm  
Beach facility. October  
15, 2008 Kurt Schmidt  
Writes: I recently came  
across your website an  
enjoyed it immensely. I  
did notice the picture  
on the J58 page  
captioned as "J-58  
Engine Testing ...

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## **SR-71 J-58 Powerplant - wvi.com**

For extreme high-altitude and high-speed environment operation, the engine required special fuel and oil. Two J58 engines powered each Lockheed A-12 and YF-12 interceptor, and the SR-71 Blackbird reconnaissance and SR-71B trainer aircraft.

**Pratt & Whitney J58**



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## **(JT11D-20) Turbojet Engine | National ...**

According to Wikipedia the J58 is comparable to the Rolls-Royce/Snecma Olympus 593 that powered the Concorde, so yes it's possible.. Will it be efficient? The Olympus 593 was as efficient as can be, even by today's standards:. The Concorde cruised at Mach 2.05 with its engines giving a SFC of

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1.195 lb/(lbf·h); this is equivalent to a SFC of 0.51 lb/(lbf·h) for an aircraft flying at Mach 0.85 ...

### **commercial aviation - Could a modified J58 jet engine be ...**

The J58 was the first engine designed to operate for extended periods using its afterburner, and it was the first engine to be flight-qualified at Mach 3 for the U.S. Air Force.

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In July 1976, J58 engines powered an SR-71 to a world altitude record of 85,069 feet and another SR-71 to a world speed record of 2,193 mph.

### **Interesting Video Explains how SR-71's J58 Turbo-Ramjet ...**

Restarting a J58 in the air was rare and could be accomplished by the wind milling

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engine, but specific conditions of altitude and airspeed had to be met. Also, the onboard supply of TEB to light off the JP-7 was 600 cc for each engine which allowed a ground start and up to 16 afterburner ignition sequences.

## **J58 Start Cart**

ease as perception of this j 58 engine can be taken as skillfully as picked to act, Project

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The Pratt & Whitney  
J58 was a jet engine

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that powered the Lockheed A-12, and subsequently the YF-12 and the SR-71 aircraft. The photo below was of Last SR-71 Blackbird engine test in full afterburner at Edwards Air Force Base took place on Sept. 12, 2002

## **Experience SR-71 Blackbird J58 engine test in full ...**

The above text is part of an interesting article

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sent to use by The  
Aviationist's reader  
Tim White about the  
Pratt & Whitney J-58  
engines that powered  
the SR-71 Blackbird,  
that was published ...

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