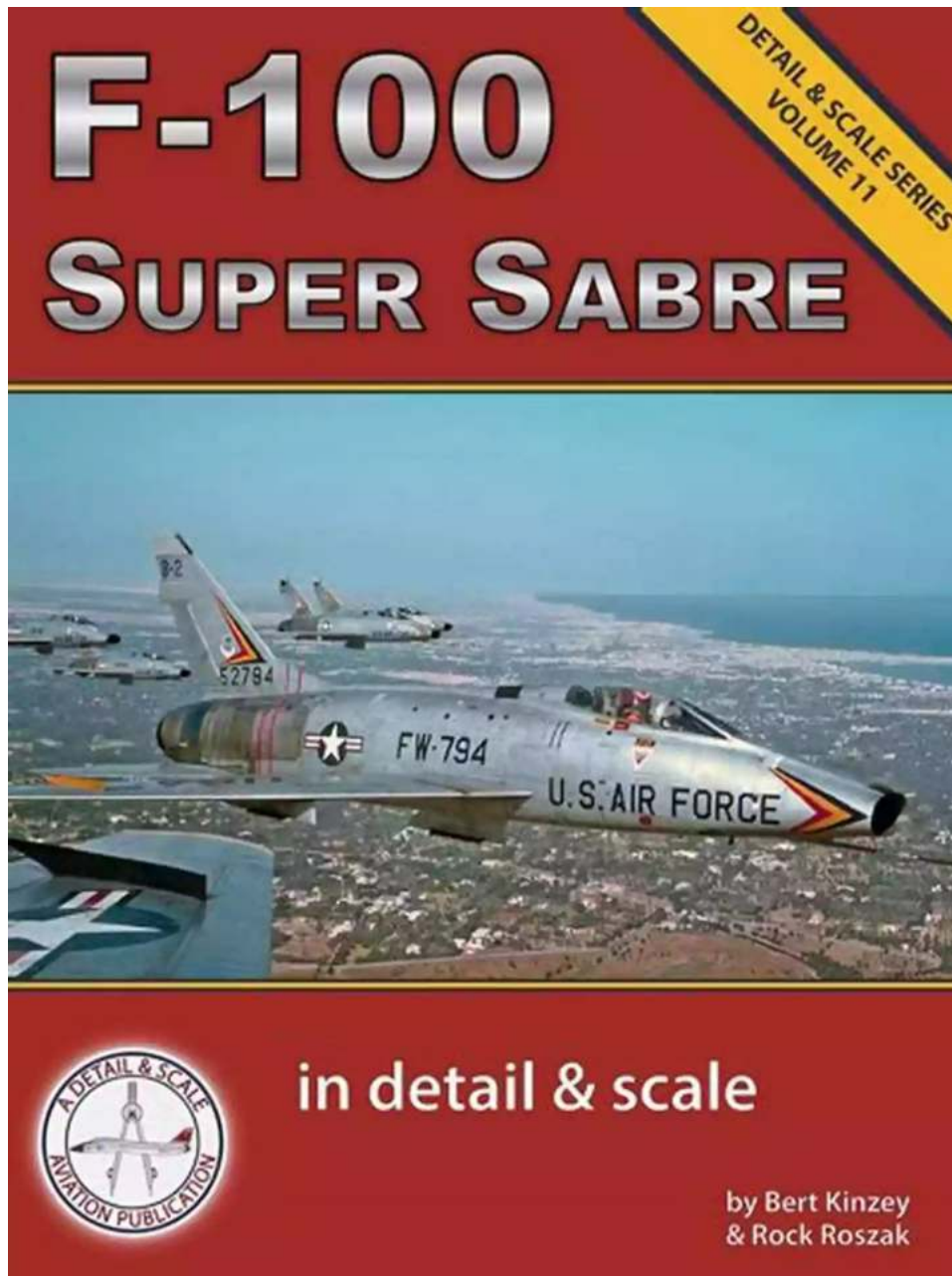


An Intimate Look at the 100 Super Sabre In Detail Scale 11

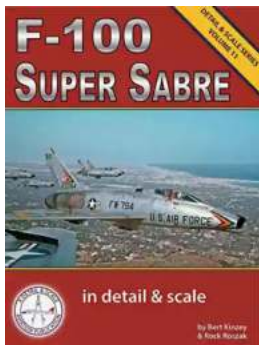


The 100 Super Sabre In Detail Scale 11 is an iconic aircraft that holds a special place in aviation history. From its powerful engine to its sleek design, this masterpiece continues to captivate aviation enthusiasts worldwide. In this article,

we will delve into the intricate details of this aircraft, exploring its features, functionality, and impact on the military aviation landscape.

The Evolution of the 100 Super Sabre

The journey of the 100 Super Sabre started in the early 1950s when the North American Aviation company embarked on a mission to create a supersonic jet fighter-bomber. The result was the F-100 Super Sabre, which made its first flight on May 25, 1953. With its impressive speed and agility, this aircraft quickly gained the reputation of being a top-performing fighter.



F-100 Super Sabre in Detail & Scale (Detail & Scale Series Book 11) by Bert Kinzey([Print Replica] Kindle Edition)

★★★★☆ 4.8 out of 5

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11



DETAIL & SCALE
SCALE
DRAWING

F-100F SUPPLEMENTAL DRAWINGS



EXTERNAL FUEL TANKS



290-GALLON TANK



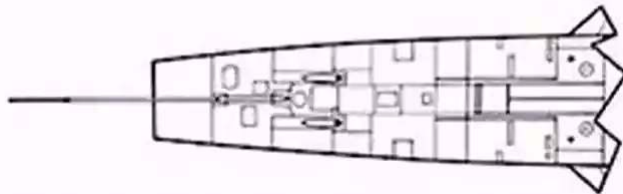
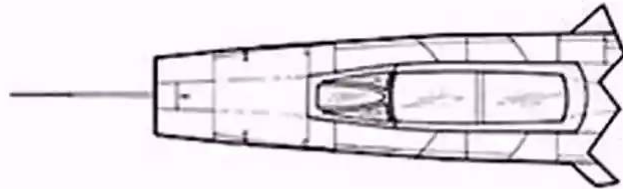
450-GALLON TANK



275-GALLON TANK



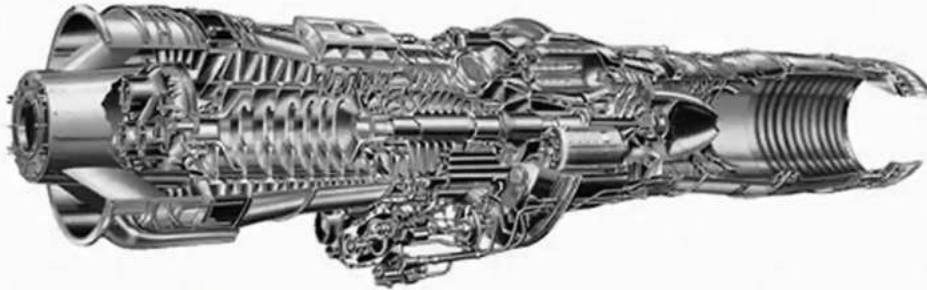
335-GALLON TANK



Over the years, the Super Sabre underwent several upgrades and modifications to maintain its relevance in an ever-changing aviation landscape. Scale Detail 11, a renowned scale model manufacturer, decided to pay homage to this legendary aircraft by creating a detailed 1:11 scale replica, aptly named the 100 Super Sabre In Detail Scale 11.

Unraveling the Details

ENGINE DETAILS



The Pratt & Whitney J57 engine was arguably the most successful jet engine produced in the United States during the early 1950s. It overcame many of the thrust and fuel consumption problems of earlier jet engines, and it is still in use today. All versions of the Super Sabre were powered by this engine. F-100As were fitted with the J57-P-7 or J57-P-39 versions of the powerplant, while the F-100C, F-100D, and F-100F were all powered by the J57-P-21. This version of the engine provided a maximum of 16,000 pounds of thrust in afterburner, 10,200 pounds of thrust in military power, and 8,700 pounds of thrust in normal power. The engine was 246.6 inches long and had a diameter of 40.1 inches. It weighed 5,207 pounds. This cutaway illustration provides a look at the internal components of the axial flow powerplant. (USAF)



The entire aft fuselage and tail section could be removed from the Super Sabre to provide complete access to the J57 engine. Here an F-100D from the 355th TFS undergoes extensive maintenance at Tuy Hoa Air Base, Republic of Vietnam, in January 1970. (USAF)

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The 100 Super Sabre In Detail Scale 11 encapsulates the essence of the original aircraft with its meticulous attention to detail. From the carefully crafted exterior to the intricately recreated cockpit, this model captures the true essence of the Super Sabre.

One of the standout features of the 100 Super Sabre In Detail Scale 11 is its realistic engine replica. With its powerful thrust and intricate design, the engine

serves as the heart of this aircraft. Scale Detail 11 went to great lengths to replicate every aspect of the engine, ensuring that the model stays true to its real-life counterpart.



Another impressive aspect of this scale model is its accurate representation of the aircraft's wingspan. The Super Sabre's wingspan played a crucial role in its aerodynamic performance, allowing it to achieve incredible speeds and maneuverability. Scale Detail 11 managed to capture this aspect flawlessly, allowing collectors to truly appreciate the intricate engineering behind this masterpiece.

Preserving Aviation History

The 100 Super Sabre In Detail Scale 11 serves as a powerful reminder of the invaluable contributions made by the original aircraft to military aviation. This scale model serves as a tribute to the brave pilots who flew this aircraft, as well as the engineers who designed it.

Aviation enthusiasts and collectors will find great joy in owning the 100 Super Sabre In Detail Scale 11. Its impeccable attention to detail and faithful representation not only make it a compelling collectible but also a testament to the timeless beauty and significance of the Super Sabre.



The F-100D variant was the definitive example of the Super Sabre, and it saw extensive use in Vietnam. F-100D, S/N 55-3712, is pictured here while assigned to the 308th TFS based at Tuy Hoa Air Base, South Vietnam. (Grove Collection)

tions, added the fighter-bomber mission as a secondary role. Now, the F-100D became a fighter-bomber first and a day fighter second. It featured an increased vertical tail area, in-board landing flaps that increased the wing area, new electronic equipment that included the first autopilot designed for a supersonic aircraft, and the ability to carry a "buddy" refueling store. In addition to its internal fuel tanks, the external tanks could also be in-flight refueled.

The first flight of an F-100D took place on January 24, 1956, and deliveries began in September of that year to the 405th FBW at Langley Air Force Base, Virginia. By year's end, deployments had been made to the U. S. Air Forces in Europe (USAFE) and the Far East Air Forces (FEAF), replacing F-84F and F-86F fighter-bombers. But the F-100D had a number of unresolved problems, some of which were never fully corrected. These included inaccuracies with the MA-3 fire control system, failures with the Sundstrand Constant Speed Drive that provided power to the electrical system, and problems with the autopilot. There were also maneuverability and G-force problems at high altitude, but these were corrected by 1957. Modifications to add the Sidewinder air-to-air missile

and the Bulpup air-to-surface missile were delayed. There were shortages of spare parts, and some problems with the J57's engine bearings and afterburner fuel system lingered.

Concerned with protecting its aircraft from attack by atomic weapons, the Air Force investigated the possibility of providing dispersed shelters for its aircraft, then launching them from zero-length, trailer-mounted launchers using an Astrodyne rocket booster that produced 150,000 pounds thrust. Although the viability of the concept was demonstrated successfully, and the last few F-100Ds produced were fitted with equipment for launching from these zero-length trailers, the system was never used operationally.

Variations of the F-100D were proposed. These included the F-100J (an all-weather variant offered to Japan), the F-100L with a J57-P-55 engine, and the F-100N, which was a simplified -D model with reduced electronics. None of these versions reached the hardware stage.

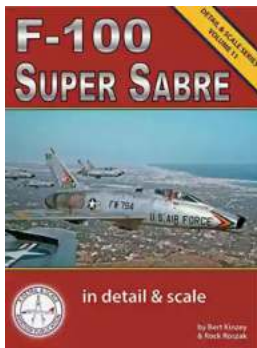
A Hun built for two

Since the F-100 was the first supersonic fighter in the Air Force, it represented an important step in advancement that

The United States was one of several countries to experiment with the zero-length launch of aircraft to employ airpower without having to use vulnerable runways during future conflicts. Several U. S. aircraft were launched in this way, and the Super Sabre was one of the more prolific vehicles in the program. F-100D, S/N 56-2947, is shown here on its launch trailer with the Astrodyne rocket booster attached to the lower part of the aft fuselage. (NMUSAF)



The 100 Super Sabre In Detail Scale 11 is more than just a scale model. It encapsulates the spirit of a legendary aircraft and offers aviation enthusiasts a chance to own a piece of history. Scale Detail 11's dedication to accuracy and attention to detail make this collectible a true masterpiece. Whether displayed in a museum or cherished in a private collection, this scale model continues to honor the legacy of the 100 Super Sabre for generations to come.



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F-100 Super Sabre in Detail & Scale is the eleventh volume of the expanded Detail & Scale Series of military aviation publications. The F-100 Super Sabre is significant in the history of military aviation in that it was the first U. S. fighter capable of maintaining supersonic speeds in level flight, and it was the first supersonic fighter in the world to reach operational status. This new book covers every aspect of this significant aircraft, from its developmental history through its use as a fighter-bomber, Fast FAC, and Wild Weasel I aircraft in Southeast Asia. Super Sabres utilized as drones are covered, as is the Hun's service with foreign nations.

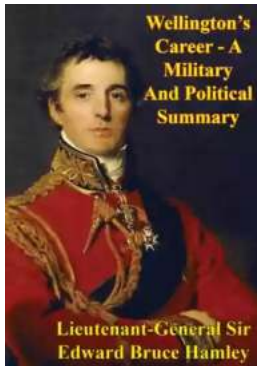
Detail & Scale previously published volumes on Super Sabre in 1980 and 1989. The original work in 1980 was one of our very early 48- page books in the original Detail & Scale Series. In 1989 our second book on the F-100 was Volume 33 in the expanded 72-page Detail & Scale Series, and it provided appreciably more coverage on the Super Sabre. Now, over thirty years later, we are again significantly expanding our coverage of the F-100 with this new volume. F-100 Super Sabre in Detail & Scale is a detailed study of one of the most important jet fighter aircraft designs to see operational service with the U. S. Air Force as well as several foreign nations. The book begins with a comprehensive developmental and operational history of the Super Sabre and follows that with

an all-inclusive chapter on each of the variants. From the YF-100 prototypes to the two-seat F-100F, every variant of the Super Sabre is covered with photographs, an informative text, artwork, and tables providing technical and performance data. This coverage even includes the six RF-100A "Slick Chick" reconnaissance aircraft with cockpit photos and illustrations showing where the equipment was placed inside the modified fuselage. The use of the F-100 as a high speed drone comes next, and this is followed by a chapter covering its use in foreign service with France, the Republic of China, Turkey, and Denmark. Next, is a pilot's report by Don Schmenk which provides a fascinating and informative perspective from a pilot with more than 1,000 hours in the cockpit including 215 combat missions in Vietnam. This is followed by a new chapter on the Super Sabre's service in Southeast Asia. This chapter features a detailed look at the modifications made to the F-100Fs that took part in the Wild Weasel I effort, the first development by the U. S. Air Force to create an aircraft dedicated to locating and destroying enemy surface-to-air missile and gun air defense systems.

A comprehensive chapter on Super Sabre details, long a hallmark of the Detail & Scale brand, follows. This chapter contains nine sections covering the cockpit, windscreen and canopy, fuselage, wing, landing gear, tail, engine, 20-mm cannons, and pylons and external stores details. Complete coverage of almost every square inch of the Super Sabre is provided through 136 high resolution photographs, 115 of which are in full color.

As with all Detail & Scale Series books, the final chapter covers the scale modeling history of the Super Sabre from the early kits that are now only collector's items, to the kits that are generally available as of July 2020 for use by the serious scale modeler. The most popular standard modeling scales of 1/144th, 1/72nd, 1/48th, and 1/32nd are treated as separate sections, and the available models in each are reviewed objectively.

F-100 Super Sabre in Detail & Scale is one of the most comprehensive books on the North American F-100 ever published. The digital version features 210 pages, more than 240 high resolution photographs (more than 195 in color), two dozen line drawings and other artwork, and five full color aircraft profiles.



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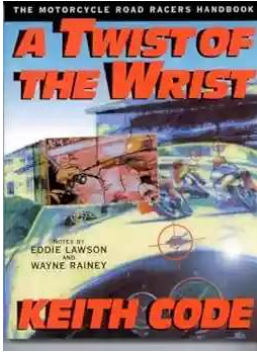
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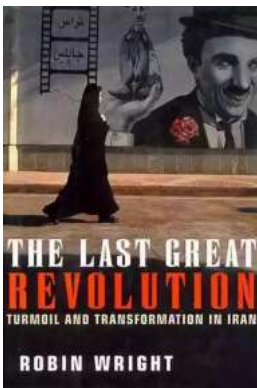
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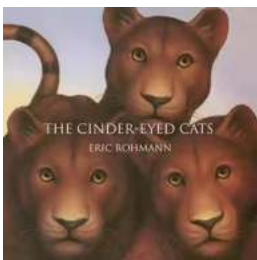
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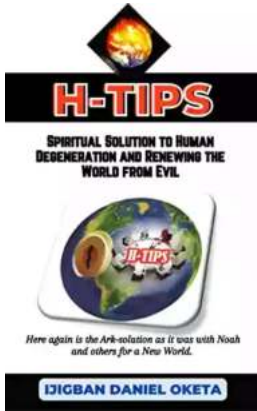
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