

GB Development of the X-15 began in 1954, in a joint research program sponsored by the National Advisory Committee for Aeronautics (forerunnerof NASA), the U.S. Air Force, U.S. Navy, and private industry. North American was selected as the prime contractor after winning the competition, in which Douglas, Republic and Bell also took part. The X-15 was designed as a high speed research aircraft to provide information on thermal heating, high speed control and stability, and atmospheric re-entry. Much of the work carried out by the X-15 team contributed to the successes of the US space programme and, ultimately, the Shuttle re-entry vehicles.

After its first flight on 8" June 1959, the X-15 became the first winged aircraft to reach speeds of Mach 4, 5, and 6 (four, five, and six times the speed of sound). The X-15 was made of stainless steel and titanium and, as it flew at such high speeds, the X-15 to withstand extreme temperatures of about 1,200 degrees F. To combat such heat, the X-15 was skinned with an "armoured skin" of high-strength nickel alloy, named Inconel X. Three aircraft were ordered, the second being rebuilt as the X-15A-2 following a crash in 1962 and this aircraft is on view today at the USAF's Museum at Wright-Patterson AFB, Ohio. This aircraft was capable of greater speeds due to increased fuel capacity and achieved the speed record of Mach 6.72, which still stands

Launching the X-15 was an unusual operation. The aircraft was fitted to a pylon under the starboard wing of a B-52 Stratofortress and released at a height of 45 000ft (13,725m) and a speed of 500mph (804.5km/h). A conventional take-off was impossible, as the X-15 was not fitted with a normal undercarriage. The USAF and NACA developed a special 485 mile (780km) long test corridor stretching from Wendover Air Force Base. Utah. to Edwards Air Force Base. California. The B-52 launched the X-15 near Wendover., it then flew down the corridor to Edwards. monitored by tracking stations at Ely and Beatty in Nevada, and at Edwards. The corridor lay along a series of flat dry lakes where the X-15 could make an emergency landing if necessary. The X-15 would complete its research mission and then, followed by a Lockheed F-104 chase aircraft, would land on the hard clay of Rogers (formerly Muroc) Dry Lake. Just before landing, the lower half of the bottom tail section was jettisoned, and two landing skids were deployed. The nose was supported on a conventional two-wheel landing gear. X-15 pilots were specially-developed full-pressure "space suits" in case of depressurisation at the extreme altitudes at which the aircraft flew. In fact, a number of X-15 pilots were awarded Astronaut "Wings" as they technically flew at the upper edges of the earth's atmosphere.

The X-15 flew faster and higher than any other aircraft. A peak altitude of 67.08 miles (354.200ft/107,970m) was reached by the X-15, and the X-15A-2 attained a speed of Mach 6.72 (4,534 mph/7,295km/h)

Technical Specifications:

Span 22 ft (6.7 m), length 52 ft, 5 in (15.98 m).

Powerplant: One Reaction Motors (Thiokel) XLR99-RM-2 throttleable liquid fuel (liquid hydrogen, anhydrous ammonia) rocket. 57,000 lb (25.855 kg) thrust.

Maximum Achieved Speed. Mach 6.72 (4,534mph /7,295km/h) Maximum Achieved Altitude: 67.08 miles (354,200ft/107,970m)

Having just completed an out of box build of this kit, I made a few notes on needed corrections and recommendations on making the build a little easier as well as noted some spots that needed a little extra attention. All notes are done in red to make them easier to see. I have not yet seen the later releases of this kit so I have no idea if any of these items have been fixed on the later releases. This kit is a pretty straightforward build and makes a very impressive display once it is completed.





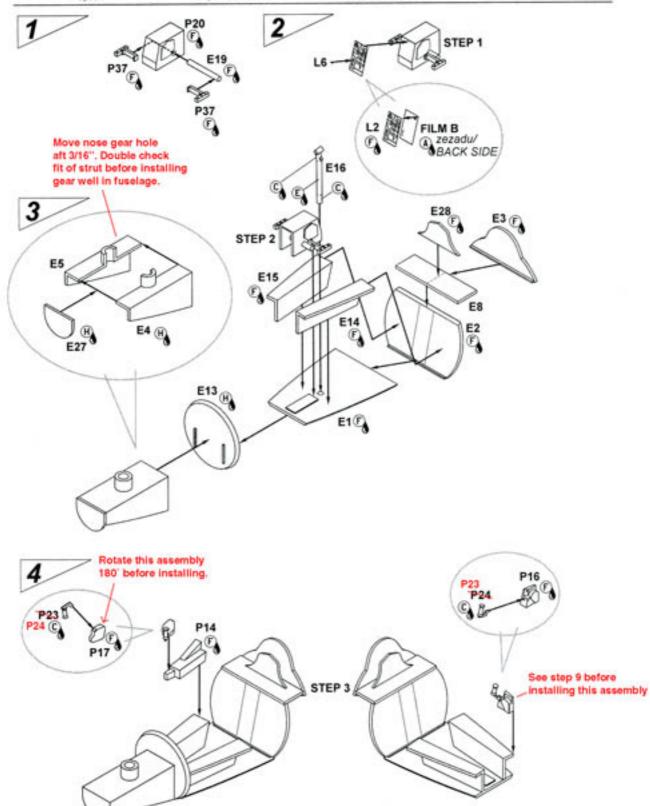
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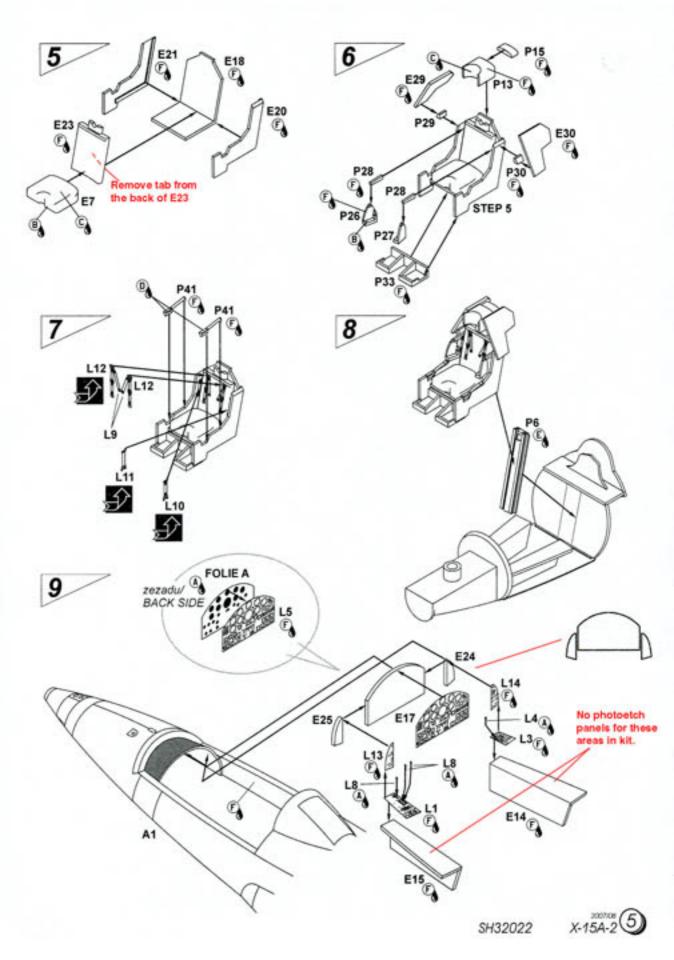


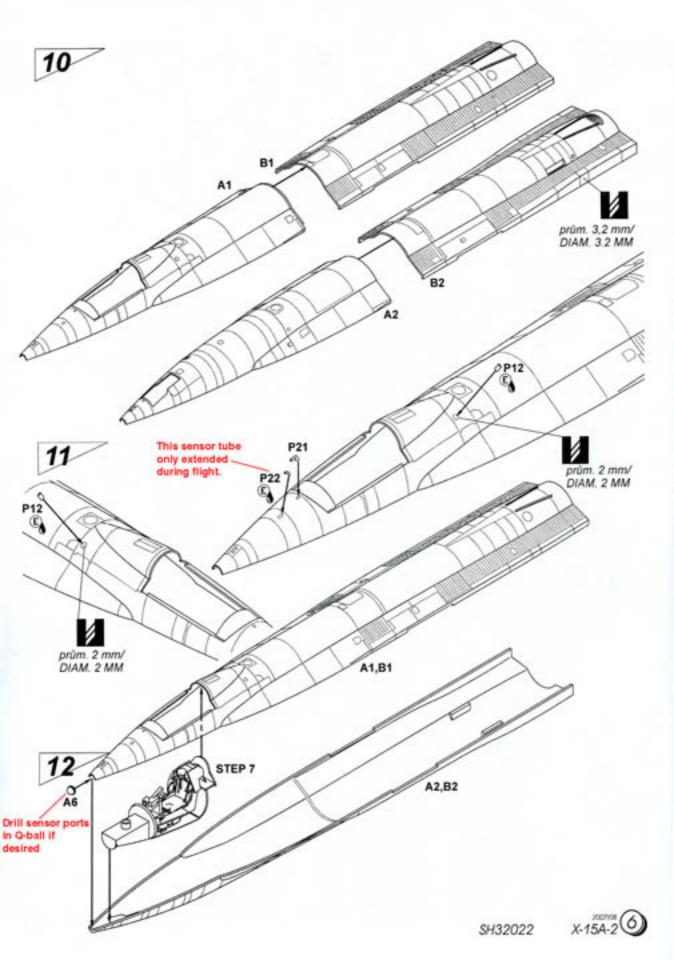
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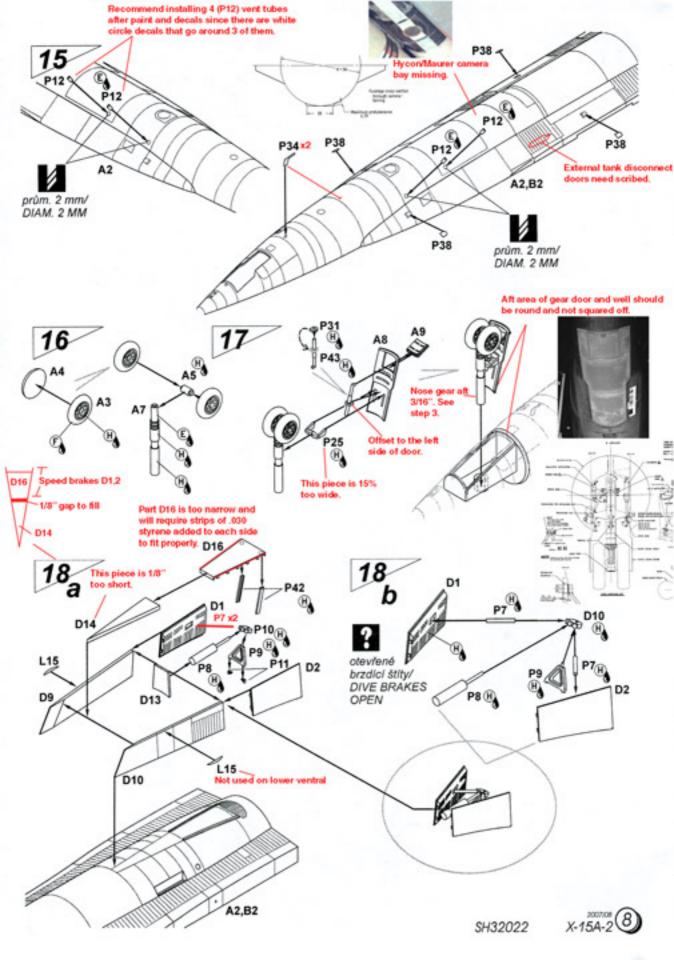


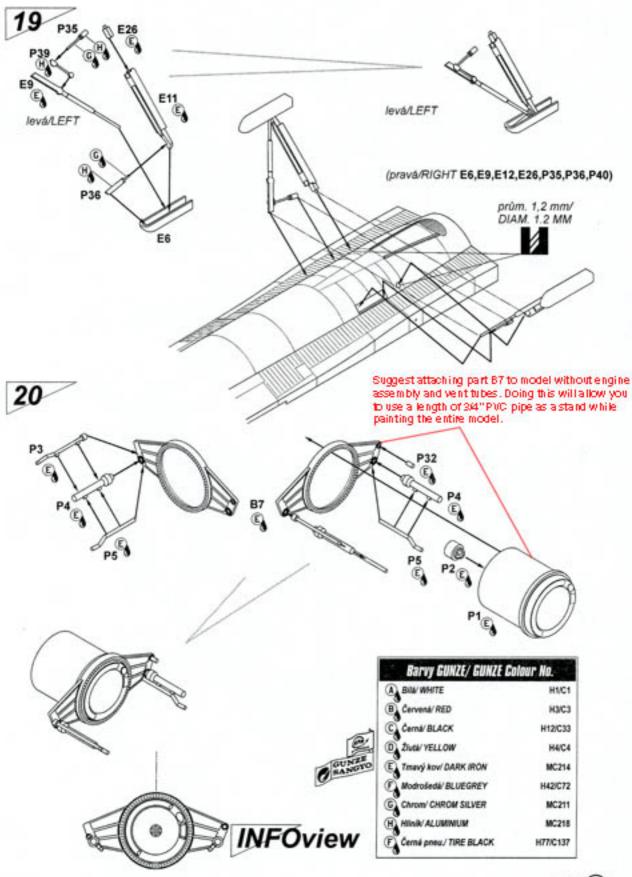


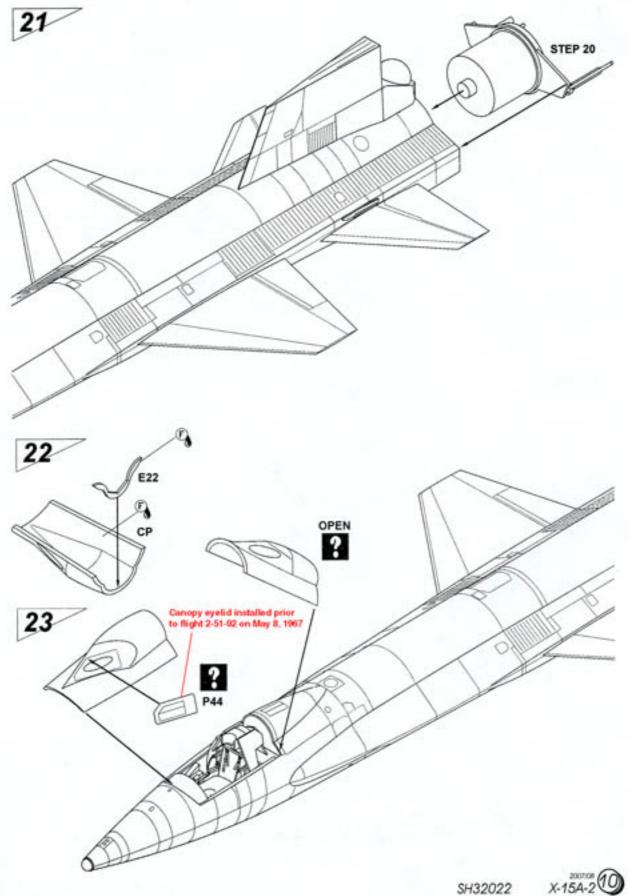


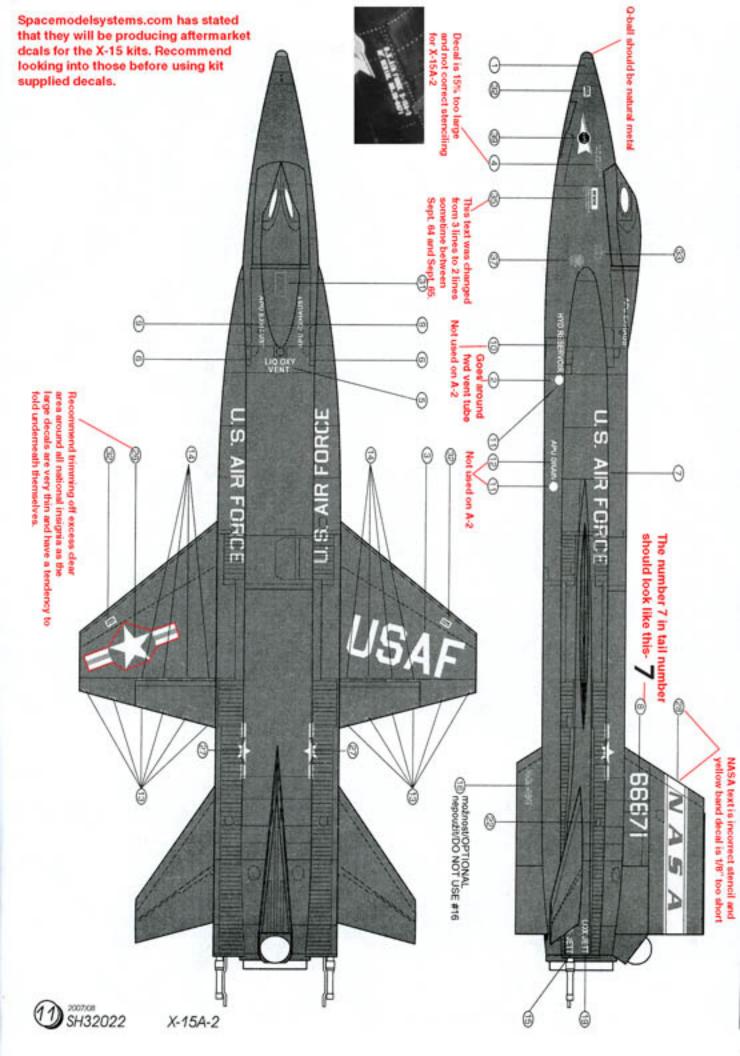
X-15A-2

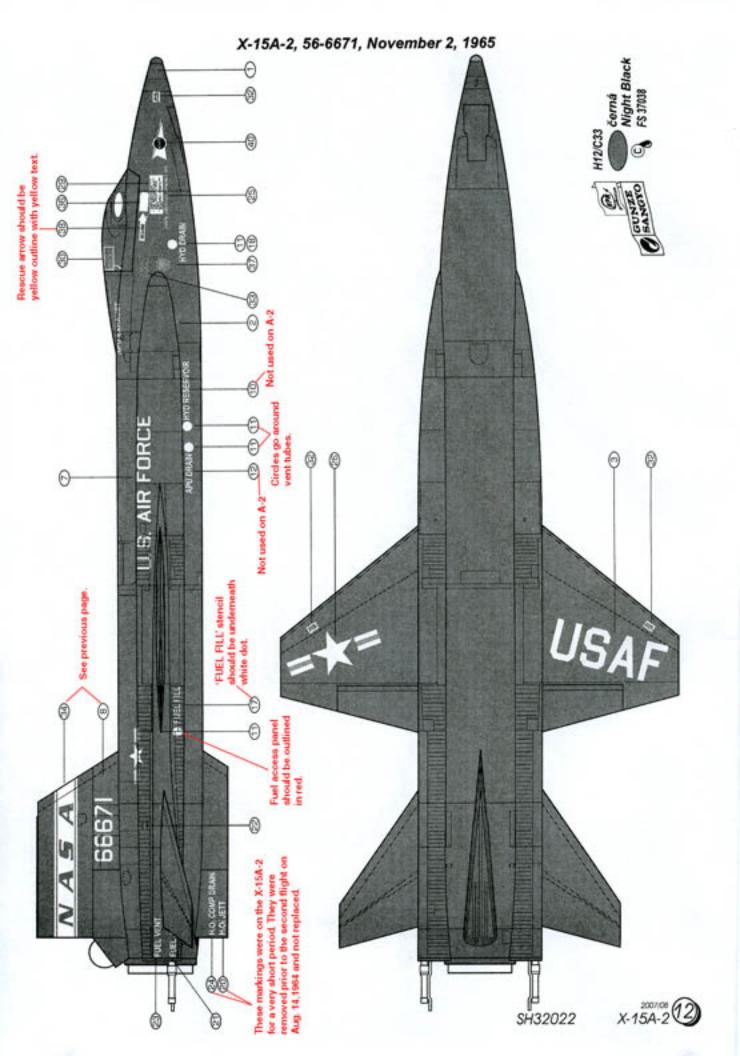
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The following pages were added in November 2008 and were created by

Peter Johnson during his build of the follow-on kit with the external tanks.

