



FACT SHEET

U.S. Air Force Fact Sheet

LTV A-7K

Mission and Description (December 1986)

The A-7K is a two-place turbopfan, light attack airplane derived from the [A-7D Corsair II](#) series. It is an attack aircraft designed for close support and interdiction missions. Eight external store stations provide a large ordnance capacity and freedom of ordnance choice. In-flight refueling capability is provided. Features to expedite maintenance and airplane turnaround are important A-7K design characteristics.

The A-7K has fixed wing incidence and a high-lift system composed of leading edge flaps and single slotted trailing edge flaps. The A-7K low speed maneuvering performance is enhanced by the incorporation of the automatic maneuvering flap (AMF).

Primary flight control is provided by outer panel ailerons, spoiler deflectors on the center section, unit horizontal tail, and a rudder. Superior stability and control qualities over the entire aircraft speed envelope, including transonic, are features of the A-7K. A dual-channel, three-axis, stick-steering autopilot is provided.

The A-7K was designed as a combat crew training aircraft to support the A-7Ds in service with the Air National Guard. To accommodate the second crew position, the aircraft was lengthened by 34 inches -- an 18-inch section was inserted in front of the wing and a 16-inch section inserted behind the wing. The in-flight refueling receptacle was moved from the offset left position on the A-7D to the fuselage centerline on the A-7K. The -K was capable of performing the same missions as the A-7D and retained the Pave Penny laser target seeker system. One A-7D (S/N 73-1008) was modified and tested as the YA-7K. LTV built 30 production aircraft as A-7K with 1979-1981 serial numbers.



Formation of three LTV A-7Ds and one A-7K of the Arizona Air National Guard. (U.S. Air Force photo)

Type	Number built/ converted	Remarks
YA-7K	1	Two-place version of A-7D
A-7K	30	Production version

TECHNICAL NOTES:

Armament: One M61A1 20mm cannon and up to 20,000 lbs. of mixed ordnance (bombs, rockets, missiles and dispensers) and/or fuel tanks on eight external stations

Engine: Allison TF41-A-1 (or -1A) axial flow turbopfan of 14,500 lbs. sea level static thrust

Maximum speed: 569 knots at 10,000 ft., intermediate power

Range: 2,397 nautical miles with 2632 gallons of fuel at 457 knots average in 5.27 hours at

41,364 lbs. takeoff weight

Combat radius: 282 nautical miles with 6,500 lbs. payload at 431 knots average in 1.645 hours

Ceiling: 37,647 ft., 500 fpm, combat weight, intermediate power

Service ceiling: Approx. 47,000 ft.

Span: 38.73 ft. (23.77 ft. with wings folded)

Length: 48.69 ft.

Height: 16.30 ft.

Tread: 9.49 ft.

Weight: 42,000 lbs. maximum takeoff

Crew: Two

Serial numbers: 73-1008 (YA-7K from A-7D); 79-460 to 79-471; 80-284 to 80-295; 81-072 to 81-077

Other notes: First flight was in October 1980, and first production delivery was in April 1981. Acceptance date by Air National Guard was in April 1981.

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