

Engine J85 Ge 21 Maintenance

The ratio of the mass-flow of air bypassing the engine core to the mass... 45956024fa

Aircraft engine p. 215. "GE Pushes Into Turboprop Engines, Taking on Pratt". Osprey. Wall Street Journal. Aviation (first ed. Aircraft using power components are referred to as powered flight. ISBN 9780850451634. November 16, 2015. An aircraft engine, often referred to as an aero engine, is the power component of an aircraft propulsion system. Most aircraft engines are either piston engines or gas turbines, although a few have been rocket powered and in recent years many small UAVs have used electric motors 45956024fa

It was developed during the Vietnam War in response to military interest in new counter-insurgency (COIN) aircraft to replace aging types such as the Douglas A-1 Skyraider. A formal United States Air Force (USAF) evaluation of the T-37 Tweet basic trainer for the COIN mission was conducted in late 1962, after which it was concluded that it could be modified to effectively perform the role. The attack-orientated A-37 was directly derived from the T-37, roughly doubling in both all-up weight and engine thrust to permit considerable quantities of munitions to be carried along with extended flight endurance and additional mission avionics. The prototype... 45956024fa

Gas turbine Aero Engine Corporation of China (AECC) Alstom Ansaldo Energia Bharat Heavy Electricals Limited (BHEL) Doosan Enerbility GE Aerospace GE Vernova Hanwha A gas turbine or gas turbine engine is a type of continuous flow internal combustion engine. sound. The main parts common to all gas turbine engines form the power-producing part (known as the gas generator or core) and are, in the direction of flow: 45956024fa

Additional components have to be added to the gas generator to suit its application. Common to all is an air inlet but with different configurations to suit the requirements of marine use, land use or flight at speeds varying from stationary to supersonic. A propelling nozzle is added to produce thrust for flight. An extra turbine is added to drive a propeller (turboprop) or ducted fan (turbofan) to

reduce fuel consumption (by increasing propulsive efficiency) at subsonic flight speeds... 45956024fa a compressor-driving turbine. 45956024fa

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Propelling nozzles accelerate the available gas to subsonic, transonic, or supersonic velocities depending on the power setting of the engine, their internal shape and the pressures at entry to, and exit from, the nozzle. The internal shape may be convergent or convergent-divergent (C-D). C-D nozzles can accelerate the jet to supersonic velocities within the divergent section, whereas a convergent nozzle cannot accelerate the jet beyond sonic speed. 45956024fa

Propelling nozzle Aircraft Engines, Cincinnati A propelling nozzle or exhaust ejector is a nozzle that converts the internal energy of a working gas into propulsive force; it is the nozzle, which forms a jet, that separates a gas turbine, or gas generator, from a jet engine. E. magazine 21 November 1952 p648, Flightglobal Archive website "J85 Rejuvenation Through Technology Insertion" Briskin, Howell, Ewing, G 45956024fa

Jet engine performance has been phrased as 'the end product that a jet engine company sells' and, as such, criteria include thrust, (specific) fuel consumption, time between overhauls, power-to-weight ratio. Some major factors affecting efficiency include the engine's overall pressure ratio, its bypass ratio and the turbine... 45956024fa It was founded as a division of Alfa Romeo but was sold to Aeritalia in 1986 and then to Fiat in 1996. It was merged with Fiat Avio in 2003 as Avio S.p.A. 45956024fa a combustor 45956024fa

Turbofan Whereas all the air taken in by a turbojet passes through the combustion chamber and turbines, in a turbofan some of the air entering the nacelle bypasses these components. A turbofan can be thought of as a turbojet being used to drive a ducted fan, with both of these contributing to the thrust. 0 bypass ratio. This was derived from the General Electric J85/CJ610 turbojet 2,850 lbf (12,700 N) A turbofan or fanjet is a type of airbreathing jet engine that is widely used in aircraft propulsion. the aft-fan General Electric CF700 engine, with a 2. The word "turbofan" is a combination of references to the preceding generation engine technology of the turbojet and the additional fan stage. It consists of a gas turbine engine which adds kinetic energy to the air passing through it by burning fuel, and a ducted fan powered by energy from the gas turbine to force air rearwards 45956024fa

Jet engine performance required for long life of the turbine. When installed in the engine this open end is closed by the first stage A jet engine converts fuel into thrust. One key metric of performance is the thermal efficiency; how much of the chemical energy (fuel) is turned into useful work (thrust propelling the aircraft at high speeds). Like a lot of heat engines, jet engines tend to not be particularly efficient (<50%); a lot of the fuel is "wasted". In the 1970s, economic pressure due to the rising cost of fuel resulted in increased emphasis on efficiency improvements for commercial airliners. J85 annular combustor, displayed rear-end up 45956024fa

General Electric CJ805 the J57 engine, and GE began considering it as the basis for a high-power engine for commercial use. The basic CJ805-3 was a turbojet and powered the Convair 880 airliner, and the CJ805-23 (military designation TF35) a turbofan derivative which powered the Convair 990 Coronado variant of the 880. In 1952, Chapman Walker's design team at GE built a The General Electric CJ805 is a jet engine which was developed by General Electric Aircraft Engines in the late 1950s. It was a civilian version of the J79 and differed only in detail. It was developed in two versions 45956024fa

Alfa Romeo Avio It was also involved, alongside FIAT, FN of Belgium The Alfa Romeo Avio was an Italian aviation company producing aircraft engines active since 1941. during the decade, and was the European distributor of the General Electric J85 and CJ610 turbojets 45956024fa

Northrop T-38 Talon It was the world's first supersonic trainer as

well as the most produced. "T-38N N968NA". Even though this value has been printed The Northrop T-38 Talon is a two-seat, twinjet supersonic jet trainer designed and produced by the American aircraft manufacturer Northrop Corporation. free. 2024-02-28. fr. 2014-11-02. stanakshot. This Day In Aviation. "General Electric J85-GE-5". 2018 45956024fa

Propelling nozzles may have a fixed geometry, or they may have variable geometry to give different exit areas to control... 45956024fa

Cessna A-37 Dragonfly These engines were canted slightly outward and downward to improve single-engine handling The Cessna A-37 Dragonfly, or Super Tweet, is a jet-powered, light attack aircraft designed and produced by the American aircraft manufacturer Cessna. Electric J85-GE-17A engines, providing 2,850 lbf (12. 7 kN) thrust each 45956024fa

a rotating gas compressor 45956024fa The T-38 can be traced back to 1952 and Northrop's N-102 Fang and N-156 fighter aircraft projects. During the mid-1950s, Northrop officials decided to adapt the N-156 to suit a recently issued general operating requirement by the United States Air Force (USAF) for a supersonic trainer to replace the Lockheed T-33. The bid was successful, in no small part due to its lower lifecycle cost comparisons to competing aircraft, and the company received an initial order to build three prototypes. The first of these, designated YT-38, made its maiden flight on 10 April 1959. The... 45956024fa

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