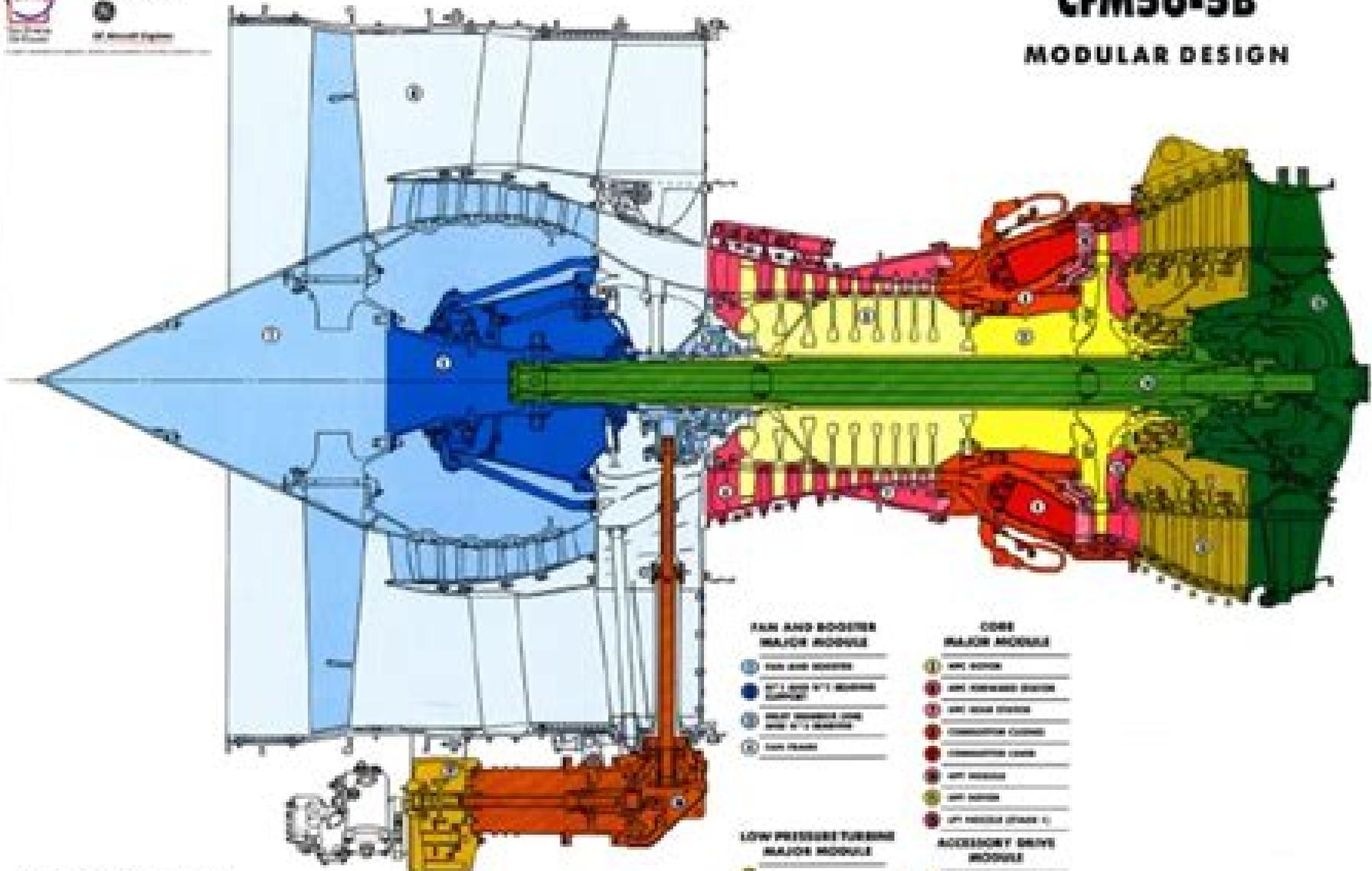




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CFM56-5B

MODULAR DESIGN



FAN AND BOOSTER MAJOR MODULE

- ① FAN AND BOOSTER
- ② HP 1 AND HP 2 BEARING HOUSING
- ③ HP2 BEARING HOUSING AND HP 1 BEARING HOUSING
- ④ FAN SHAFT

LOW PRESSURE TURBINE MAJOR MODULE

- ① HP
- ② HP BEARING
- ③ HP SHAFT

CORE MAJOR MODULE

- ① HP COMP
- ② HP COMPRESSOR SECTION
- ③ HP FAN SECTION
- ④ COMPRESSOR CORE
- ⑤ COMPRESSOR CORE
- ⑥ HP BEARING
- ⑦ HP SHAFT
- ⑧ HP NOZZLE (STAGE 1)

ACCESSORY DRIVE MODULE

- ① MAIN DRIVE SHAFT
- ② ACCESSORY DRIVE SHAFT

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Advances in Energy and Combustion Ashwani K. Gupta, Ashoke De, Suresh K. Aggarwal, Abhijit Kushari, Akshai K. Runchal, 2021-08-07 This book provides state of the art advances in several areas of importance in energy combustion power propulsion environment using fossil fuels and alternative fuels and biofuels production and utilization Availability of clean and sustainable energy is of greater importance now than ever before in all sectors of energy power mobility and propulsion Written by internationally renowned experts the latest fundamental and applied research innovations on cleaner energy production as well as utilization for a wide range of devices extending from micro scale energy conversion to hypersonic propulsion using hydrocarbon fuels are provided The tailored technical tracks and contributions from the world renowned technical experts are portrayed in the respective field to highlight different but complementary views on fuels combustion power and propulsion and air toxins with special focus on current and future R D needs and activities The energy and environment sustainability require a multi pronged approach involving development and utilization of new and renewable fuels design of fuel flexible combustion systems that can be easily operated with the new fuels and develop novel and environmentally friendly technologies for improved utilization of all kinds of gas liquid and solid fuels This volume is a useful book for practicing engineers research engineers and managers in industry and research labs academic institutions graduate students and final year undergraduate students in Mechanical Chemical Aerospace Energy and Environmental Engineering

Advances in IC Engines and Combustion Technology Ashwani K. Gupta, Hukam C. Mongia, Pankaj Chandna, Gulshan Sachdeva, 2020-08-18 This book comprises select peer reviewed proceedings of the 26th National Conference on IC Engines and Combustion NCICEC 2019 which was organised by the Department of Mechanical Engineering National Institute of Technology Kurukshetra under the aegis of The Combustion Institute Indian Section CIIS The book covers latest research and developments in the areas of combustion and propulsion exhaust emissions gas turbines hybrid vehicles IC engines and alternative fuels The contents include theoretical and numerical tools applied to a wide range of combustion problems and also discusses their applications This book can be a good reference for engineers educators and researchers working in the area of IC engines and combustion

Recent Developments in Power and Propulsion Applications Ashoke De, Ashwani K. Gupta, Akshai K. Runchal, Dibakar Rakshit, Abhijit Kushari, 2025-09-26 The primary focus of this contributed volume is on providing cutting edge developments in a number of critically important fields including energy combustion power propulsion environment using fossil fuels and the production and use of biofuels The availability of clean and sustainable energy is more crucial now than ever before for all areas of energy use in power mobility and propulsion In the future the energy used will only grow due to the increase in population and enhanced standards of living This book includes contributions from globally recognized specialists from various regions of the world They have provided the most recent advances in both basic and applied research on the creation of cleaner energy and its application for a variety of technologies from microscale energy

conversion to supersonic and hypersonic propulsion powered by hydrocarbon fuels Clean and efficient energy conversion for various stationary and propulsion applications including hypersonic propulsion thermal management emission control and environmental issues for energy sustainability are amongst the challenges and opportunities followed for the specific applications In parallel some of the other applications include the combustion of fossil and biofuels clean energy production from low grade materials such as waste and biomass and alternative fuels via rigorous modeling and simulation with a focus on efficiency and environmental issues The present and future R D activities include specially designed technical tracks and contributions from internationally recognized technical experts that reveal different but complementary viewpoints on fuels combustion power and propulsion and air toxins The development and implementation of novel energy conversion technologies require solid fundamental understanding as well as research and development efforts at different scales from bench to pilot to full scale We conjecture that for the foreseeable future hydrocarbon fuels will likely remain a major source of energy in all sectors of power transportation and propulsion with a slow but steady increase in renewable energy resources in the overall energy mix A multifaceted strategy is needed for the energy and environmental sustainability of all power and propulsion systems This includes creating and utilizing alternative and renewable fuels designing flexible fuel combustion systems that are simple to use with the new fuels and developing cutting edge eco friendly technologies to maximize the use of all types of gas liquid and solid fuels This book provides a wealth of knowledge as a reference for practicing engineers research engineers researchers and managers in labs and industry academic institutions graduate students and senior year undergraduates studying mechanical chemical aerospace energy and environmental and industrial engineering

37th AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit, 2001 *Federal Register*, 2013-07

41st AIAA Aerospace Sciences Meeting & Exhibit, 2003 *Aircraft Powerplants: Powerplant Certification, Tenth Edition* Thomas W. Wild, John M. Davis, 2022-11-18 The most comprehensive guide to aircraft powerplants fully updated for the latest advances and regulations This up to date guide contains all the information you need to master the operation and maintenance of aircraft engines and achieve FAA Powerplant certification The book offers plain language explanations of all current engine components mechanics and technologies This tenth edition features expanded coverage of turbine engine theory operational procedures maintainability engine systems operation and propeller systems You will get new examples exercises and practice exam questions as well as revised content to align with 2022 FAA regulations Hundreds of detailed diagrams and real world examples throughout illustrate each topic In addition an up to date solutions manual is available online Aircraft Powerplants Powerplant Certification Tenth Edition covers Aircraft powerplant classification and progress Reciprocating engine construction and nomenclature Internal combustion engine theory and performance Induction supercharger and turbocharger systems Cooling exhaust and lubrication systems Basic fuel systems and carburetors Fuel injection systems Reciprocating engine ignition and starting systems Operation inspection maintenance and troubleshooting

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