



HONEYWELL **AND THE F-35**

A partnership built on innovation and excellence

Honeywell

STRONG LEGACY. RELENTLESS INNOVATION.

There's no better example of Honeywell's unparalleled commitment to innovation than our partnership with the F-35 program. Discover a few of the ways our advanced technologies and components contribute to the superior performance of the F-35 Lightning II.

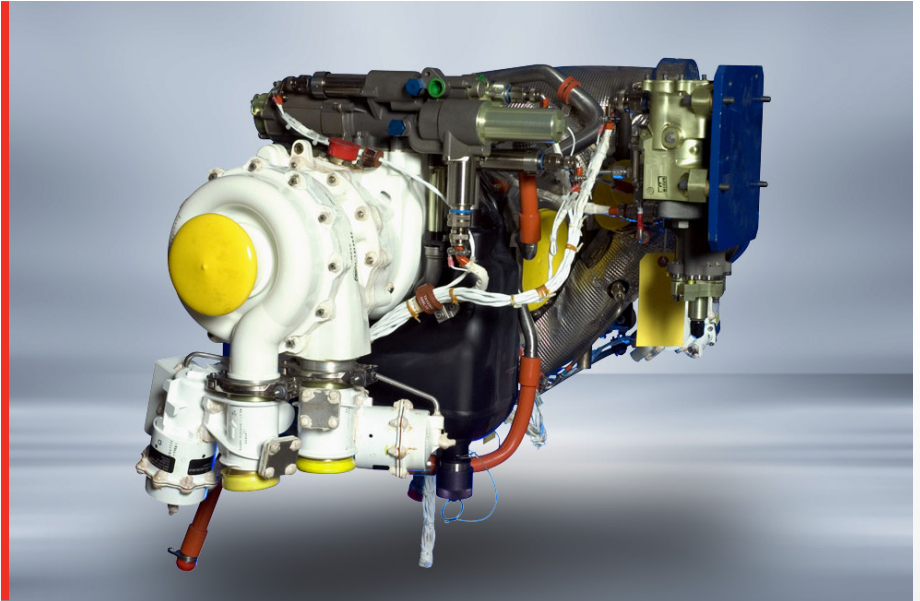


POWERING THE F-35: HONEYWELL'S KEY CONTRIBUTIONS

As a proud partner in the F-35 program, Honeywell provides critical components that drive the advanced capabilities of the F-35 Lightning II:

AUXILIARY AND EMERGENCY POWER

At the heart of the F-35 is our GTS130 auxiliary power unit (APU). It provides essential auxiliary and emergency power, facilitates engine start-up and maintains power for onboard systems when the engines are off, making it a pivotal aspect of the aircraft's operations.



AVIONICS

Honeywell supplies a range of high-precision avionics components which enhance the F-35's navigational, communication and operational capabilities.

POWER AND THERMAL MANAGEMENT SYSTEMS (PTMS)

Our PTMS expertly manage the aircraft's power needs and thermal requirements, ensuring optimal performance and operational efficiency.



CABIN / EQUIPMENT AIR COOLING & PRESSURIZATION

Keeping pilots comfortable and equipment at optimal conditions is mission critical. Honeywell's advanced cabin and equipment air cooling and pressurization systems work in unison, ensuring an ideal environment for both pilots and critical onboard systems.

LIQUID COOLING SUBSYSTEM AND BLEED AIR CONTROL SUBSYSTEM

The F-35's liquid cooling subsystem is an essential feature that maintains optimal operating temperatures for electronic systems, while the bleed air control subsystem manages engine temperature, prevents overheating and ensures efficient functioning.



FUEL THERMAL MANAGEMENT

Honeywell's fuel thermal management system effectively controls fuel temperature, enabling efficient combustion and optimal engine performance while enhancing overall fuel efficiency.

FAN DUCT HEAT EXCHANGERS/PRECOOLER

Our fan duct heat exchangers and precooler systems are critical for maintaining thermal balance within the F-35. They provide efficient heat exchange by using air from the fan duct to cool hot air from the engine, helping maintain the durability and reliability of the system.



ON-BOARD OXYGEN GENERATION SYSTEM (OBOGS)

Honeywell's OBOGS eliminates the need for oxygen cylinders by turning ambient air into breathable oxygen for the pilot. This innovative system saves weight and space on the aircraft, enhancing operational efficiency.

ENVIRONMENTAL CONTROL SYSTEMS

Our advanced environmental control systems maintain the ideal atmosphere within the F-35, optimizing pilot comfort and safety during all phases of flight.



AIR AND THERMAL SYSTEMS

Honeywell ensures the overall air and thermal efficiency of the F-35 with broader air and thermal systems that integrate and manage the various subsystems above for seamless and harmonious operations.



POWERING THE F-35 WITH A SYMPHONY OF SYSTEMS

Honeywell's contributions to the F-35 program exemplify our dedication to innovation and technological excellence. Our advanced systems and technologies provide the vital backbone for the F-35, enabling this state-of-the-art aircraft to deliver unmatched performance. Each time a F-35 Lightning II takes to the skies, it showcases the incredible technology that powers it, and the pivotal role played by Honeywell in its creation.



EXPERIENCE THE HONEYWELL DIFFERENCE

At Honeywell, we're shaping the future of aerospace. Contact us to learn more about our innovative contributions to the F-35 Lightning II and other groundbreaking programs.



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N61-3167-000-000 | 06/23
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THE
FUTURE
IS
WHAT
WE
MAKE IT

Honeywell