



AIRCRAFT SPECIFICATION

2017 Bell 407GXP Helicopter Specifications



General Information

The **2017 Bell 407GXP**, with serial number **54707**, is a single-engine, light utility helicopter distinguished by its vibrant orange exterior. Currently registered as TBD, this helicopter has logged **approximately 620 total hours since new**. It is powered by the reliable Rolls-Royce 250-C47B/8 turboshaft engine, featuring Full Authority Digital Engine Control (FADEC). The combination of modern avionics, proven performance, and a versatile cabin layout makes this aircraft ideal for both utility and executive operations.

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Aircraft Highlights

This Bell 407GXP is equipped with the advanced Garmin G1000H Integrated Avionics Suite, providing pilots with a modern glass cockpit environment. One of the standout features is **the 2-Axis Bell Auto-Pilot Flight Control System**, which enhances stability, precision, and reduces pilot workload during all phases of flight. To further ensure passenger comfort, the Dual Forward Evaporators Air Conditioner delivers superior cooling performance, particularly in hot and humid environments. The helicopter integrates crash-resistant fuel systems and seating, accommodates up to six passengers, and is powered by the renowned Rolls-Royce 250-C47B/8 engine with FADEC for efficiency and reliability.



Rotor System

The helicopter is equipped with a four-blade, soft-in-plane composite main rotor system with swept tips, designed to minimize noise and vibration while improving operational efficiency. The tail rotor consists of

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a two-blade, semi-rigid composite unit. Both rotor systems utilize elastomeric bearings and allow for individual blade replacement, simplifying maintenance and reducing operating costs.

Controls

The flight control system is supported by dual redundant hydraulics, ensuring both reliability and safety. Features such as force trim and artificial feel systems enhance pilot comfort, while adjustable cyclic, collective, and directional pedals provide for precise handling. Additionally, droop and flapping restraint mechanisms contribute to stable and predictable flight performance.



Powerplant and Fuel System

At the heart of the Bell 407GXP is the **Rolls-Royce 250-C47B/8 turboshaft engine equipped with FADEC**, ensuring optimized performance and efficiency. The engine delivers 862 shaft horsepower (shp) for takeoff and 813 shp continuously. Fuel is stored in crash-resistant bladder tanks with a total capacity of approximately 127 US gallons.

Transmission and Drive

The main transmission is rated for 862 shaft horsepower at takeoff and features a two-stage planetary gearbox with an integrated freewheeling unit. Power is transmitted to the tail rotor via a driveshaft system, incorporating intermediate and tail rotor gearboxes to ensure smooth and efficient operation.

Avionics

The cockpit of the Bell 407GXP is centered around the Garmin G1000H Integrated Avionics Suite, which features dual 10.4-inch LCD displays for both primary flight and multifunction data. Enhanced situational awareness and safety are provided by Synthetic Vision Technology, a Helicopter Terrain Awareness and Warning System, and an integrated Flight Management System. Standard avionics include VHF communication and navigation radios, GPS, and a Mode-S transponder. The **2-Axis Bell Auto-Pilot Flight Control System** further augments safety by offering stability enhancement and automatic pitch and roll control.

awareness for the pilot.



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Safety and Warning Systems

Safety features include a master caution and warning system, supported by aural alerts and advisory messages. An engine fire detection and extinguisher system provides additional protection, while an Emergency Locator Transmitter (ELT) ensures rapid location in the event of an emergency.

Interior and Cabin

The cockpit is fitted with crash-resistant pilot and co-pilot seats equipped with lap belts and shoulder harnesses. An anti-reflection instrument panel enhances visibility, and a portable fire extinguisher is installed for added safety. The passenger cabin seats up to six passengers and features intercom and loudspeaker systems, reading lights, ventilation outlets, and large windows, offering excellent visibility and a comfortable travel experience.

Environmental and Utility Equipment

Passenger comfort is further enhanced by the **Dual Forward Evaporators Air Conditioner**, providing superior cooling performance. Additional equipment includes a rotor brake, and provisions for external cargo hook, making the aircraft highly adaptable for a wide range of missions.

Aircraft Equipment List, Standard

1	28 Amph Battery
2	Aux Fuel Tank Provisions (19Gal)
3	Doors-Jettisonable (Crew Only)
4	Dual Controls
5	Glass Cockpit-G1000 (Garmin) G1000NXi
6	High Skid Gear with Flight Steps
7	LED Lighting (Interior/Exterior)
8	Main Rotor Blades - High Visibility
9	Rotor Brake
10	Tail Rotor Camera
11	Wire Strike Protection System
12	Artex C406-NHM ELT with PGM Adaptor
13	Artex C406-NHM ELT Provisions
14	Standard 3 Color Paint Scheme
15	Door Openers for Baggage Door (AA)
16	Door Openers for Jettisonable Crew Doors (AA)
17	Door Openers for Cabin Door (AA)
18	Pre-Flight Kit - 4 Handles & 2 Maintenance Steps (AA)
19	Inlet Barrier Filter



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20	Aft Cabin ICS - 5 Place
21	Bleed Air Heater with Windshield & Chin Bubble Defrost (Air Comm)

Installed Optional Equipment

1	Headliner – Standard with AC Ducting
2	Litter Provisions
3	Litter Ski Provisions
4	Cargo Hook Provisions Kit (P/N 206-706-341-111)
5	Radar Altimeter #2
6	Expanded Avionics Shelf
7	Snow Baffles
8	AirComm Air Conditioner with Dual Forward Evaporators
9	Spacemaker and Cover (AA)
10	Dual Controls Hanger Kit in Baggage Compartment
11	Cut Out/Blank Plate in Avionics Panel for Onboard Systems Load Weighing System Indicator
12	Autopilot – 2-Axis Bell Auto Pilot Flight Control System
13	Ground Handling Wheels (1) Set