

RAISING THE STANDARD OF EXCELLENCE



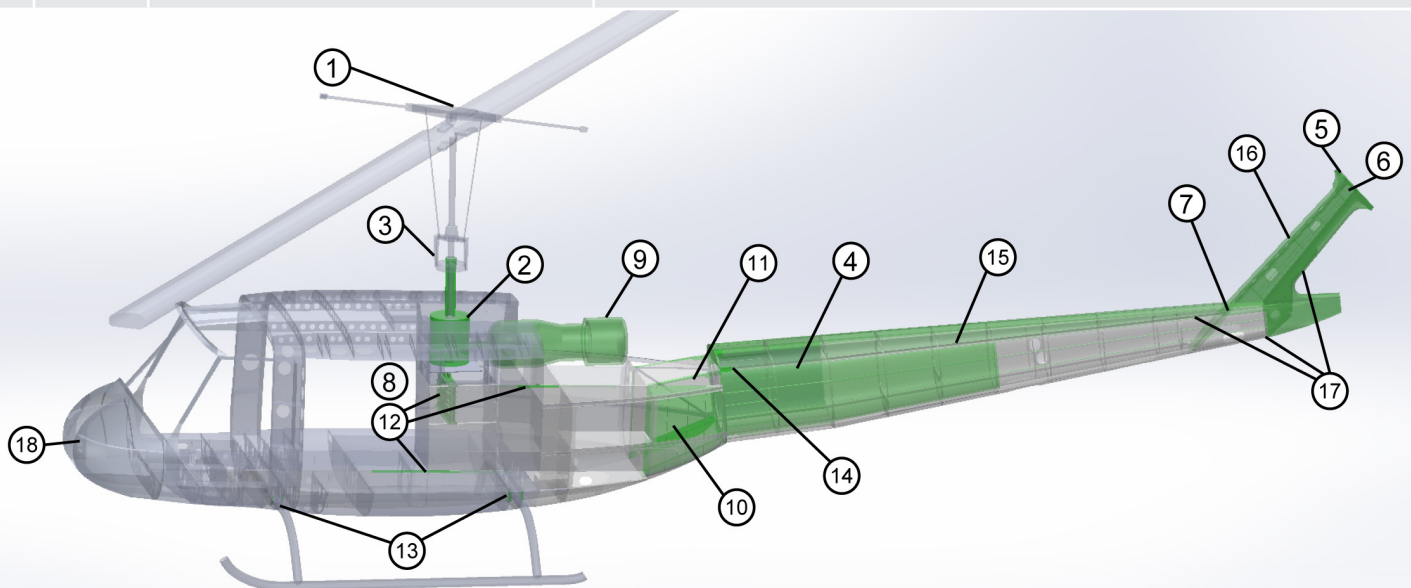
UH-1H

Upgrade Capabilities

UH-1H³ Upgrade

Implementing the following modifications to your UH-1H is known as StandardAero's "Hot, High & Heavy upgrade," transitioning your aircraft into a UH-1H³ with improved useful load, performance and safety.

Item #	Type	Mod	Benefit
1	DT&RS	Upgraded main rotor hub, stabilizer, and blade	Improved lift to 10,500 lb / 4,763 kg internal; 11,200 lb / 5,080 kg external
2	DT&RS	Main rotor transmission	Increased horsepower to 1,290 HP
3	DT&RS	Upgraded swash plate assembly	Improved lift to 10,500 lb / 4,763 kg internal; 11,200 lb / 5,080 kg external
4	DT&RS	Upgraded main and tail rotor drive shaft and couplings	Increased horsepower to 1,290 HP
5	DT&RS	Upgraded tail rotor	Additional tail rotor authority and efficiency at higher altitudes
6	DT&RS	Upgraded 90° gearbox	Additional tail rotor authority and efficiency at higher altitudes
7	DT&RS	Upgraded 42° gearbox	Increased horsepower to 1,290 HP
8	DT&RS	Upgraded hydraulics system	Improves cyclic control by raising the operating pressure to 1,500 PSI
9	DT&RS	Honeywell T53-L-703 engine install	Increased horsepower with increased efficiency at higher altitudes, increased to 5,000 TBO, increased fuel efficiency
10	Airframe	Upgraded oil cooler and blower	Improved cooling for T53-L-703 engine
11	Airframe	Upgraded airframe	Increased strength for 1,290 HP and 56.5 PSI torque
12	Airframe	Upgraded lift beam and main beam	Increased strength for 1,290 HP and 5,000 lb / 2,268 kg cargo hook capacity
13	Airframe	Upgraded cross tube tunnel	Increased strength and fatigue capabilities for 10,500 lb / 4,763 kg internal GW
14	Tailboom	Upgraded tailboom for additional torque requirements	Increased strength for 1,290 HP and 56.5 PSI torque
15	Tailboom	Push-pull tube T/R control system	Eliminates cable control and chain, improves safety
16	Tailboom	212/412 vertical fin	Reduced flight loads and better crosswind performance
17	Tailboom	BLR Aerospace tailboom mods	Enhances stability and lifting performance
18	Electrical Avionics	Optional electrical and avionics	Options include electrical rewire, glass cockpit STC, and avionics suites



UH-1H STCs

FAA STC SR00267SE: Vertical Tail Fin with 42° and 90° Gear Boxes and 212 Push Rod System This design alleviates the fin spar A.D. 99-25-12 and subsequent US Army (SOF) requirement.

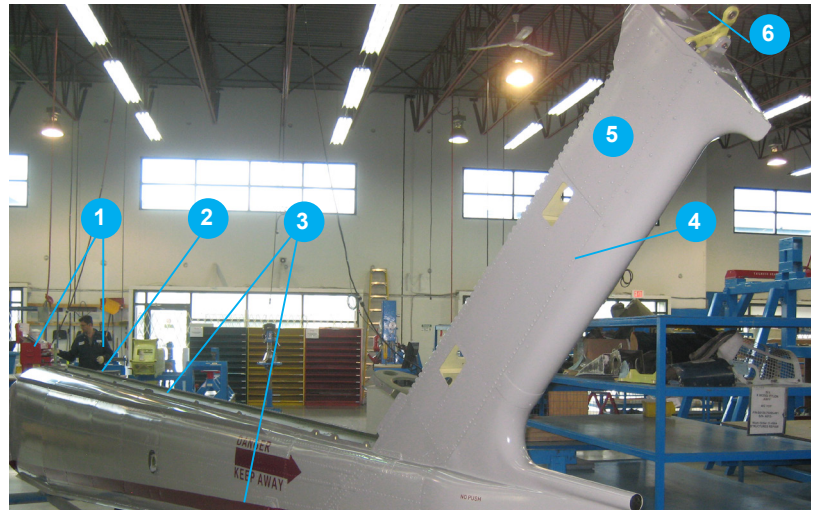
Benefits Include:

- Improved hover-hold tasks
- Improved yaw control
- Improved high DA capability
- Reduced cruise torque
- Reduced tail rotor power requirements
- Reduced fuel consumption

StandardAero also offers a unique enhanced tailboom upgrade.

Upgrades Include:

1. Two upgraded upper longerons in place of the existing STC SR00267SE. This upgrade accommodates the -703 engine torque output.
2. New StandardAero manufactured frame stations for push-pull flight control support mounting.
3. BLR Fast Fin System® installed for safety and higher performance, including increased lift and reduction of tail rotor loads, in challenging mission environments.
4. Installed tractor (RHS) vertical fin for maximized performance.
5. Push-pull flight control system.

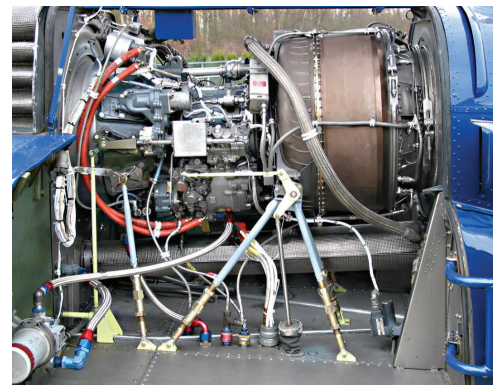
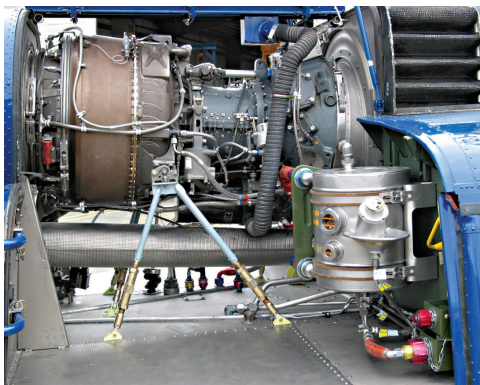


Engines

StandardAero is certified to install the Honeywell T53-L-703 engine.

Benefits Include:

- Direct replacement for the T53-L-13
- StandardAero has the parts, tooling, training, and experience available to support the Honeywell engines series
- Added AFS barrier filtration system to reduce FOD ingestion and erosion
- Time Between Overhaul (TBO) increased to 5,000 hours (optional)
- Demonstrated Mean Time Between Unscheduled Engine Removal (MTBUER) > 4,000 hours
- Shaft horse power limit changes from 1,100 HP to 1,290 HP
- Specific Fuel Consumption (SFC-maximum) decreases

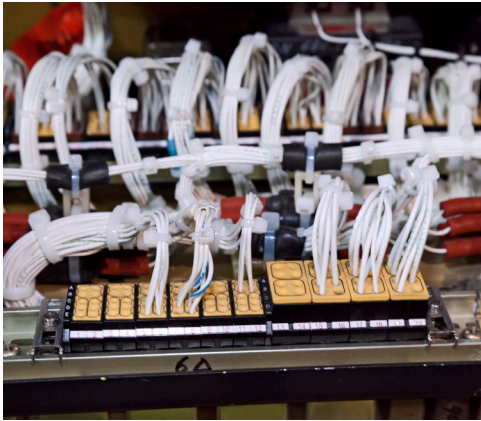


Wiring / Avionics

StandardAero offers total aircraft rewire options for the UH-1H platform.

Benefits Include:

- Instrument panel inspection, rewire, paint, and placard of instrument
- Upper deck harnesses included in rewire
- Static instrument air system repair or replacement



Glass Cockpit Upgrade

StandardAero can install a Sagem Avionics cockpit into the UH-1H aircraft series, based on their Bell 205 Sagem Three (3) Display Electronic Flight Instrument System and AHRS System FAA STC SR03043NY, TCAA STC SH09-59.

Benefits Include:

- Three 10-inch Integrated Cockpit Displays
- Dual Sagem air data computers
- Dual crossbow attitude and heading gyro systems with remote magnetometers
- Large screen, ultra-bright LCD display (easy to read even in direct sunlight)
- ICDS extreme wide-angle view aspect
- Powerful computer processor capable of updating all flight dynamics, engine performance, navigation information, and communication data in real-time
- Dedicated Engine Management System
- Moving map navigation, terrain, weather, and an electronic library with checklist facility
- Night Vision Goggles (NVG) compatible



Before



After



StandardAero is an Approved Maintenance Organization (AMO) to fabricate structural parts for the UH-1H platform.

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