

UH1H HP Modification and Upgrade Program



The UH-1H has served the United States military for many years, setting the performance standards for all helicopters. Since the start of production, over 10,000 of these flying workhorses have been built. Today, over 5,000 of these reliable Bell products are still flying in more than 45 countries around the world.

To meet the ever increasing demand for vertical lift aircraft with greater safety margins, HPI has developed a modernization program for the UH-1H helicopter to provide increased performance, reliability, and safety in a cost effective upgrade program. This upgrade program will generate a *NEW UH1H HP* helicopter that will compete and exceed newly manufactured aircraft made today.



The UH1H HP modification and upgrade program consist of major upgrade and/or replacement of parts as listed below. Aircraft increased gross weight to 10,500 lbs. and internal gross weight to 11,200lbs.

- Carry up to 9 more soldiers in hot/high environments
- Spend half as much time doing maintenance
- Modern Avionics, reduces Pilot and Co-Pilot work loads
- Mission Versatility
- Increased VNE
- Increased Payload
- Increased IGE Hover Capability
- Increased OGE Hover Capability

Engineering/Technical

- Approved FAA Flight Manual
- Aircraft Publications, IPB, Maintenance Manuals, Wiring Diagrams
- Inspection Program: 25/ 100/ 300/ 600/ 1000/ 3000 hours inspections
Daily, 3 months/ 6 months/ 12 months/ 5 years inspections
- Technical Support



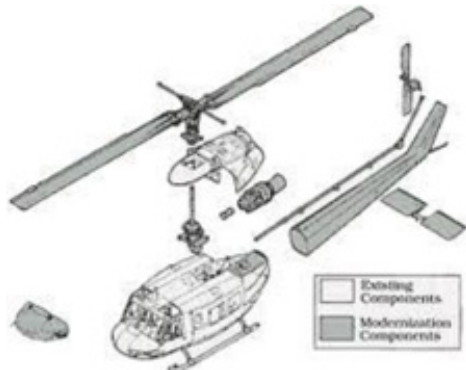
Engine Upgrade

- Upgrade from T53-L-13B (1-000-060-10 to T53-L-703 (1-000-060-31)
- 50% remaining life on all life limited parts or better. Time since Overhaul, 0.0.
- 28% more take off power
- Lower operating cost
- Improved durability for corrosive environment
- Improved performance, more power, Higher Payload, and High/Hot Capability



Structural Upgrade

- Main Lift Beam Upgrade
- Landing Gear Tunnel Upgrade
- New DART Low or High Landing Gear
- Pylon Cover Upgrade
- Engine Deck Upgrade
- Oil Cooler Upgrade
- AFT Fuselage/ Tail Boom Attachment Upgrade
- 212 Tail Boom: BLR Dual Tail Boom Strakes
BLR FAST Fin System
- Tail Rotor Tractor Push Pull Control Tubes
- 212 Elevators (No Ad's)



Aircraft Refurbishment

- All flight controls removed, cleaned, inspected, greased, and painted
- All compartments inspected and painted
- All systems removed, cleaned, inspected and re-installed with new hardware
- All windows replaced with Acrylic
- Painting of aircraft interior or exterior
- Weighing of aircraft
- Flight testing and main and tail rotor balancing

Component Upgrade

- All components will be delivered in Overhauled condition
- 50% remaining life on all life limited parts or better, unless noted
- New 212 Main Rotor Blades
- 212 Main Rotor Head (new straps installed)
- New 212 Main Rotor Mast Assembly
- 212 Stabilizer
- 212 Scissors and Sleeve
- 212 Swashplate Assembly
- Cobra Transmission (120 shp)
- New Kamatics Shaft
- 212 42 degree and 90 degree Gearbox
- New 212 Tail Rotor Blades
- 212 Tail Rotor Hub Assembly
- 212 Tail Rotor Driveshaft and Hangar Bearing Assemblies



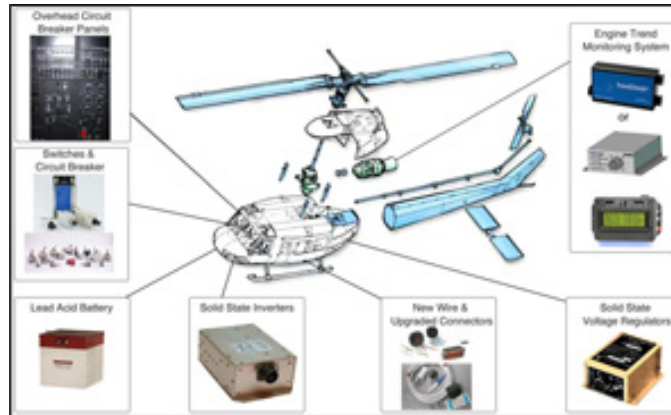
Cobra Transmission



Kamatics Shaft

Electrical Upgrade

- Complete A/F Re-Wire, using new specification wire and upgraded connectors
- Installation of Solid State Voltage Regulator
- Installation Solid State AC Inverter's
- Installation of New Concord Lead Sealed Lead Acid Battery
- Inspection and Repair of All Electrical and Accessories Components
- New Instrument Panel
- Refurbishment and repair of all lighted panels
- AKV Engine Trend Monitoring and Cycle Counter



Avionics Upgrade

- Dual Pilot and Co-Pilot GARMIN G500H PFD/ MFD with Synthetic Vision
- 4 Place COBHAM Audion System
- Dual Becker Avionics Radio Management Units
- Dual Becker Avionics VHF NAV/COM Systems
- Dual GARMIN IFR GPS Systems
- Becker Avionics Transponder, Mode S/A/C
- Becker Avionics ADF System
- Honeywell Radar Altimeter System
- COBHAM ELT with NAV Interface
- L3 Avionics Standby Instrument System (ESI)
- COBHAM Multi Band UHF / Military Radio System



Optional Equipment

- AFS Filter
- Cargo Hook
- Auxiliary Fuel System
- External Hoist Provisions and Hoist
- Internal Hoist and Internal Hoist Provisions
- Fast Rope
- Missile Warning System (AN/AAR-47(U)2)
- Counter Measures Dispenser System (AN/ALE-47)
- EGPWS
- NVG Cockpit
- External Formation lighting
- Night Sun
- FLIR
- ARMOR
- Customized Avionics



Warranty

- 1000hrs or 12 months

Technical Support

- Technical support available over phone and email
- Technical publication updates for up to 3 years from date of delivery

Training

- Technical / Maintenance training available on request
- Pilot training available on request



UH1H HP THE ONLY CHOICE