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**TECHNICAL MANUAL**

**OPERATOR'S MANUAL  
FOR**

**UH-60 HELICOPTER**



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**HEADQUARTERS, DEPARTMENT OF THE ARMY**

**29 JANUARY 1999**

# Uh 60 Operators Manual

**BM King**



## Uh 60 Operators Manual:

Uh-60 Black Hawk Pilot's Flight Operating Manual Department of the Army, 2011-04 Developed to replace the UH 1 Iroquis Sikorsky's UH 60 Black Hawk first entered service in 1979 A four blade twin engine medium lift utility helicopter the UH 60 serves as the U S Army's primary tactical transport helicopter Modified versions include models for the U S Navy and Air Force and specialized versions including the UH 60C modified for Command and Control missions EH 60A electronic systems operations and electronic warfare and the UH 60Q medical transport Two major variants of the Black Hawk currently exist the UH 60L and UH 60M The UH 60L incorporates improvements to the basic design that provide more power and lifting capability as well as automatic flight control The newer UH 60M features upgraded engines improved rotor blades and state of the art flight controls that will allow the helicopter's service life to extend to 2020 and beyond Over 2500 Black Hawks have been built and nearly 1000 more are currently on order Black Hawks have seen combat service for the U S Military in Grenada Panama Somalia Afghanistan and Iraq Other nations also employ the UH 60 including Brazil Colombia Israel Mexico Taiwan Australia Japan and Turkey Created by Sikorsky and the U S Army this pilot's flight operating manual profiles the UH 60Q Black Hawk Over 500 pages long this unclassified document is reprinted here in its entirety

**Manuals Combined: U.S. Army TECHNICAL MANUAL OPERATOR'S MANUAL FOR UH-60A HELICOPTER UH-60Q HELICOPTER UH-60L HELICOPTER EH-60A HELICOPTER** , BOTH MANUALS Approved for public release distribution unlimited DESCRIPTION This manual contains the complete operating instructions and procedures for UH 60A UH 60Q UH 60L and EH 60A helicopters The primary mission of this helicopter is that of tactical transport of troops medical evacuation cargo and reconnaissance within the capabilities of the helicopter The observance of limitations performance and weight and balance data provided is mandatory The observance of procedures is mandatory except when modification is required because of multiple emergencies adverse weather terrain etc Your flying experience is recognized and therefore basic flight principles are not included IT IS REQUIRED THAT THIS MANUAL BE CARRIED IN THE HELICOPTER AT ALL TIMES **Operator's Manual** ,1970 Operator's Manual ,1992 *Operator's Manual* ,1992 **Monthly Catalog of United States Government Publications** ,2000 *Operator's Manual for UH-60A Helicopter, UH-60L Helicopter, EH-60A Helicopter* ,1996 Monthly Catalogue, United States Public Documents ,1990 **Flight-Time Identification of a UH-60A Helicopter and Slung Load** ,1998 *Operator's Manual for Army Models UH-60A Helicopter, UH-60L Helicopter, EH-60A Helicopter* United States. Department of the Army,1996 *TRENDS: A Flight Test Relational Database User's Guide and Reference Manual* ,1994 *Manuals Combined: UH-60 BLACK HAWK Pilot Flight Training, Engine, Electrical, Fuel System, Instrument & Crew Functions Visual Training Materials* , Over 900 pages Just a sample of the contents LANDING GEAR TERMINAL LEARNING OBJECTIVE ACTION Determine the major components and operational characteristics of the UH 60 landing gear system CONDITIONS Given multiple choices visual representations of the UH 60

landing gear system components and applicable references STANDARDS Select from multiple choices the major components and operating characteristics of the UH 60 landing gear system SAFETY REQUIREMENTS Use care when operating training aids and or devices RISK ASSESSMENT Low ENVIRONMENTAL CONSIDERATIONS None EVALUATION This block of instruction will be tested on the UH 60 aviation subjects written examination I 011 1374 A minimum score of 70% is required for passing LEARNING STEP ACTIVITY 1 Identify the primary components and operational characteristics of the UH 60 main landing gear system Crash Worthiness UH 60 Main Landing Gear System Description conventional non retractable reverse tricycle arrangement Components Drag beam Axle assembly Main shock strut Main wheel assembly Wheel brake Drag Beam Drag Beam Switches Drag Beam Strut at Rest Strut Under High Impact Load Strut Airborne Kneeling Valves Main Wheel Tire Details Master Cylinders Slave Cylinders Parking Brake Valve Parking Brake Schematic Brake Wear Check Check On Learning Question The lower stage of the main landing gear struts is designed to absorb landing loads up to \_\_\_\_ feet per second Answer 10 LEARNING STEP ACTIVITY 2 Identify the primary components and operational characteristics of the UH 60 tail landing gear system UH 60 Tail Landing Gear System Tail landing gear Operation Tail wheel assembly Swivels 360 degrees Upper end of strut Yoke of tail gear Fork assembly Split aluminum rim Tail wheel lock system Tail Landing Gear Assembly Tail Strut Tail Yoke and Fork Tailwheel Lock System Tail Wheel Lock Check On Learning Question Power to operate the tail wheel lock system is provided through the \_\_\_\_ bus Answer DC essential SUMMARY Identified the primary components and operational characteristics of the UH 60 main landing gear system Identified the primary components and operational characteristics of the UH 60 tail landing gear system BREAK TIME POWERTRAIN AND ROTOR SYSTEM TERMINAL LEARNING OBJECTIVE ACTION Determine the major components and operational characteristics of the UH 60 powertrain system CONDITIONS Given multiple choices visual representations of the UH 60 powertrain system components and applicable references STANDARDS Select from multiple choices the major components and operating characteristics of the UH 60 powertrain system SAFETY REQUIREMENTS Use care when operating training aids and or devices RISK ASSESSMENT Low ENVIRONMENTAL CONSIDERATIONS None EVALUATION This block of instruction will be tested on the UH 60 aviation subjects written examination I 011 1374 A minimum score of 70% is required for passing ENABLING LEARNING OBJECTIVE A ACTION Identify the operational characteristics and modules of the UH 60 main transmission system CONDITIONS Given multiple choices visual representations of the UH 60 main transmission system and applicable references STANDARDS Select from multiple choices the characteristics of the UH 60 main transmission system Main Transmission Location Main Transmission Components Input and Accessory Modules Freewheeling Unit Accessory Module Main Module Details Check On Learning Question The UH 60 main transmission system consists of how many modules Answer 5 five ENABLING LEARNING OBJECTIVE B ACTION Identify the characteristics of the UH 60 main transmission lubrication system components CONDITIONS Given multiple choices visual representations of the UH 60 transmission

lubrication system and **Identification Des Systèmes Pour Le Développement Intégré Des Aéronefs Et Les Essais en Vol** ,1999 *Scientific and Technical Aerospace Reports* ,1989-08 Journal of the American Helicopter Society

American Helicopter Society,2001 **Aerospace Medicine and Biology** ,1991 **Flight Testing and Real-Time System Identification Analysis of a UH-60A Black Hawk Helicopter with an Instrumented External Sling Load**

Allen H. McCoy,1997-12 Historically helicopter and load combinations have been qualified through flight testing requiring considerable time and cost With advancements in simulation and flight test techniques there is potential to substantially reduce costs and increase the safety of helicopter sling load certification Validated simulation tools make possible accurate prediction of operational flight characteristics before initial flight tests Real time analysis of test data improves the safety and efficiency of the testing programs To advance these concepts the US Army and NASA in cooperation with the Israeli Air Force and Technion under a Memorandum of Agreement seek to develop and validate a numerical model of the UH 60 with sling load and demonstrate a method of near real time flight test analysis This thesis presents results from flight tests of a US Army Black Hawk helicopter with various external loads Tests were conducted as the US first phase of this MOA task The primary load was a container express box CONEX which contained a compact instrumentation package The flights covered the airspeed range from hover to 70 knots Primary maneuvers were pitch and roll frequency sweeps steps and doublets Results of the test determined the effect of the suspended load on both the aircraft s handling qualities and it s control system s stability margins Included were calculations of the stability characteristics of the load s pendular motion Utilizing CIPHER software a method for near real time system identification was also demonstrated during the flight test program

TRENDS William S. Bjorkman,1990 **Aeronautical Engineering** ,1992 A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace reports STAR and International aerospace abstracts IAA **NASA SP.** ,1991

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