

# AUXILIARY POWER UNITS



SAPHIR 20 MODELE 095



EC225 – EC725

## TRAINING MANUAL

TM 095 EN – April version 2015

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# Manual To Apu

**George Bradshaw**



## **Manual To Apu:**

*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

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