

**\*TM 1-1520-238-MTF**

**Technical Manual**

**MAINTENANCE TEST  
FLIGHT MANUAL**

**HELICOPTER, ATTACK,  
AH-64A APACHE**

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**HEADQUARTERS,  
DEPARTMENT OF THE ARMY  
31 AUGUST 1994**

\* This manual supersedes TM 55-1520-238-MTF, dated  
16 September 1987, including all changes.

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WASHINGTON, D. C.,  
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REPORTING ERRORS AND RECOMMENDING  
IMPROVEMENTS

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**OZONE DEPLETING CHEMICAL INFORMATION**

This document has been reviewed for the presence of Class I Ozone Depleting chemicals. As of Change 3, dated 30 July 1997, all references to Class I Ozone Depleting chemicals have been removed from this document by substitution with chemicals that do not cause atmospheric Ozone depletion.

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# CHAPTER 1. INTRODUCTION

## 1-1. PURPOSE.

The purpose of this manual is to provide complete instructions for performing a maintenance test flight of the AH-64A helicopter. For the specific conditions which require a general or limited maintenance test flight, refer to TM 1-1500-328-23 and TM 1-1520-238-23.

## 1-2. DEFINITIONS.

a. **Maintenance Test Flight.** A flight for which the primary mission is to determine airworthiness, i.e., that the airframe, power plant accessories and items of equipment are functioning in accordance with predetermined requirements in the intended operational environment.

b. **Warnings, Cautions, and Notes.** Warnings, cautions, and notes are used to emphasize important and critical instructions and are used for the following conditions:

### **WARNING**

**An operating or maintenance procedure, practice, condition, or statement which, if not strictly observed, could result in injury to or death of the person who performs the action which follows the warning.**

### **CAUTION**

**An operation procedure, practice, condition, or statement which, if not strictly observed, could result in damage to or destruction of equipment or loss of mission effectiveness or long term health hazard to personnel who perform the action which follows.**

**NOTE**

An essential operating or maintenance procedure, condition, or statement which must be highlighted.

**1-3. GENERAL INFORMATION.**

a. This manual covers only maintenance test flight of the AH-64A helicopter and in no way supercedes any information contained in TM 1-1520-238-10 or -CL, but is to be used in conjunction with the -10 or -CL. For the purpose of maintenance test flights only, this manual satisfies all the requirements of the -CL from INTERIOR CHECK through ENGINE SHUTDOWN.

b. Crew requirements will be specified in TM 1-1500-328-23 and TM 1-1520-238-10.

c. The duration of a general or limited test flight will be in accordance with the requirements of TM 1-1500-328-23.

#### 1-4. SPECIAL INSTRUCTIONS.

a. **Cargo and Passengers.** Cargo and passengers are prohibited on maintenance test flights.

b. **Forms and Records.** Forms and records shall be checked prior to the maintenance test flight to determine what maintenance has been performed and the type of maintenance test flight required (i.e., general or limited).

c. **Configuration.** The configuration of the aircraft should be determined prior to each maintenance test flight in order to determine parameters.

d. **Post Test Flight Inspection.** A thorough visual inspection shall be performed to the extent necessary to assure that deficiencies or shortcomings that may have developed as a result of the maintenance test flight are detected.

e. **References.** When a maintenance test flight is required to assure proper operation of a specific system(s), refer to the applicable maintenance manual for the limits of that system.

f. **Asterisked Checks.** An asterisk (\*) prior to a check requires that the test flight check sheet be annotated with a specific reading. Also a check (✓) for satisfactory performance or an (X) for problem detected will be recorded and a short statement entered in the remarks block of the check sheet.

A double asterisk (\*\*) indicates a mandatory check for all test flights.