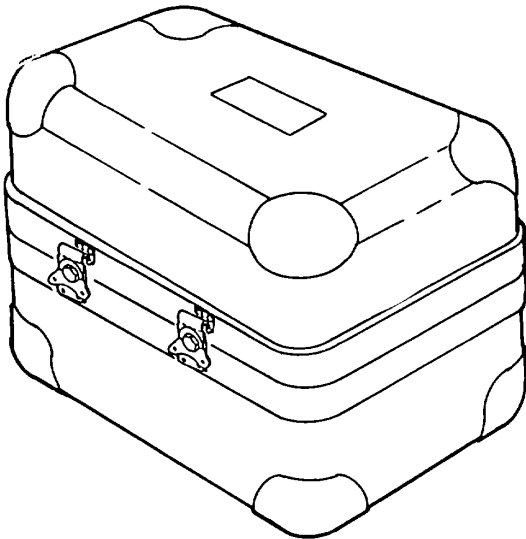


**OPERATOR'S AND UNIT
MAINTENANCE MANUAL**
for

**TEST KIT PETROLEUM,
AVIATION FUEL CONTAMINANT
MODEL PTK-100
NSN: 6630-01-347-9670**



Approved for public release,
Distribution is unlimited.

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TECHNICAL MANUAL

HEADQUARTERS
 DEPARTMENT OF THE ARMY
 AND HEADQUARTERS, U.S. MARINE CORPS.
 WASHINGTON, D.C., 31 July 1992

NO. 10-6630-240-12&P

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REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes, or if you know of a way to improve these procedures, please let us know. Mail your letter or DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in the back of this manual directly to: Commander, US Army Aviation Troop Command, ATTN: AMSAT-I-MP, 4300 Goodfellow Blvd., St. Louis, MO 63120-1798. You may also submit your recommended changes by E-mail directly to <mpmt%avma28@st-louis-emh7.army.mil>. A reply will be furnished directly to you. Instructions for sending an electronic 2028 may be found at the back of this manual immediately preceding the hard copy 2028.

Marine Corps users submit NAVMC 10772 Form to Commanding General, Marine Corps Logistics Base (Code 850) Albany, GA 31704-5000.

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HOW TO USE THIS MANUAL

CONTENT

This manual is provided for your use in operating and maintaining the Petroleum Test Kit. You must familiarize yourself with the entire maintenance procedures before beginning the maintenance task. Maintaining the Petroleum Test Kit includes preventive maintenance checks and services.

MANUAL OVERVIEW

To help you become familiar with this new kind of manual as quickly as possible, spend some time looking through the pages. The manual has a new look that is different from the look of the manuals you've been using. You'll find that it's a lot easier to use and you'll be able to find what you're looking for faster. The following is a list and description of each chapter and appendix.

a. Chapter 1 Introduction.

Contains general information, purpose of equipment, equipment description, and technical principles of operation regarding the complete Petroleum Test Kit.

b. Chapter 2 Operating Instructions.

Contains operating instructions, both under usual and unusual conditions, operation of auxiliary equipment, and preventive maintenance checks and services (PMCS).

c. Chapter 3 Operator Maintenance.

Contains lubrication instructions, operator troubleshooting, and maintenance procedures.

d. Chapter 4 Unit Maintenance.

Contains references to technical manuals covering the auxiliary equipment.

e. Appendix A References.

Contains a listing of all forms and technical manuals referred to in this manual.

f. Appendix B Maintenance Allocation Chart (MAC).

Contains a listing of all maintenance significant items and their applicable maintenance functions assigned to each maintenance category.

g. Appendix C Repair Parts and Special Tools List.

h. Appendix D Components of End Item and Basic Issue Items List.

Contains listings for components of the end item, and basic issue items.

i. Appendix E Additional Authorization List (AAL).

Not Applicable.

j. Appendix F Expendable/Durable Supplies and Materials List.

Contains an alphabetized tabular listing of all consumable items used in the maintenance or repair of the Petroleum Test Kit.

k. INDEX.

Contains an alphabetical index by subject matter contained in this manual.

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INTRODUCTION

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1-1. SCOPE.

This manual covers the use of the Petroleum Test Kit, PTK-100, in testing aviation fuel for contamination.

1-2. MAINTENANCE FORMS, RECORDS, AND REPORTS.

- a. Reports of Maintenance and Unsatisfactory Equipment. Department of the Army forms and procedures used for equipment maintenance will be those prescribed by DA PAM 738-750, as contained in Maintenance Management Update. Marine Corps personnel will refer to TM 4700-15/1 for equipment records and forms procedures.
- b. Report of Packaging and Handling Deficiencies. Fill out and forward SF 364 [Report of Discrepancy ROD]] as prescribed in AR 735-11/MCO 4430.3J.
- c. Discrepancy in Shipment Report (DISREP) (SF 361). Fill out and forward Discrepancy in Shipment Report (DISREP) (SF 361) as prescribed in AR 55-38/MCO P4610.19D.

1-3. DESTRUCTION OF ARMY MATERIEL TO PREVENT ENEMY USE.

Methods and/or procedures for the destruction of Army materiel to prevent enemy use are covered in TM 750-244-3.

1-4. CORROSION PREVENTION AND CONTROL

- a. Corrosion Prevention and Control (CPC) of Army Materiel is a continuing concern. It is important that any corrosion problems with this item be reported so that the problem can be corrected and improvements can be made to prevent the problem in future items.
- b. While corrosion is typically associated with rusting of metals, it can also include deterioration of other materials, such as rubber and plastic. Unusual cracking, softening, swelling or breaking of the materials may be a corrosion problem.