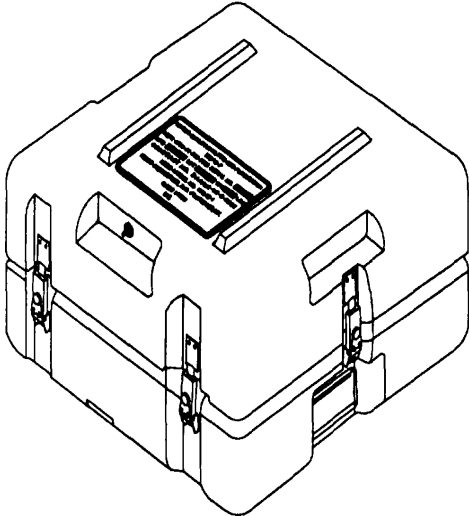


TECHNICAL MANUAL
OPERATOR'S AND UNIT
MAINTENANCE MANUAL
INCLUDING
REPAIR PARTS AND SPECIAL
TOOLS LIST (RPSTL)



WATER QUALITY ANALYSIS SET:
PURIFICATION

MODEL WQAS-1
NSN 6630-01- 365- 5588

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HEADQUARTERS, DEPARTMENT OF THE ARMY
HEADQUARTERS, U.S. MARINE CORPS

1 FEBRUARY 1994

TECHNICAL MANUAL
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HEADQUARTERS,
DEPARTMENT OF THE ARMY AND
HEADQUARTERS, U.S. MARINE CORPS
WASHINGTON D.C., 1 February 1994

OPERATOR'S AND UNIT MAINTENANCE MANUAL
INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST (RPSTL)

FOR

WATER QUALITY ANALYSIS SET: PURIFICATION

MODEL WQAS-1

NSN 6630-01-365-5588

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 DA Form (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in the back of this manual directly to: Commander, U.S. Army Tank-automotive and Armaments Command, ATTN: AMSTA-AC-NML, Rock Island, IL 61299-7630. Marine Corp users submit NAVC 10772 directly to Commander, Marine Corps Logistics Base. Code 850, 814 Radford Boulevard, Albany, GA 31704-1128. A reply will be furnished directly to you.

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HOW TO USE THIS MANUAL

CONTENT

This manual is provided for your use in operating and maintaining the Water Quality Analysis Set: Purification. Before performing any operation or maintenance task, you must familiarize yourself with the entire procedure by carefully reading through it step by step.

MANUAL OVERVIEW

To help you become familiar with this manual as quickly as possible, spend some time looking through the pages.

The front cover index has bleed to edge tabs that line up with bleed to edge tabs in the text to ease finding these key items. The table of contents entries that match the front cover index have been boxed for easy identification. A list of tables and illustrations is also provided in the table of contents to aid in locating these specific items.

A glossary is provided to identify any abbreviations used.

An alphabetical index is provided to locate specific paragraphs by name.

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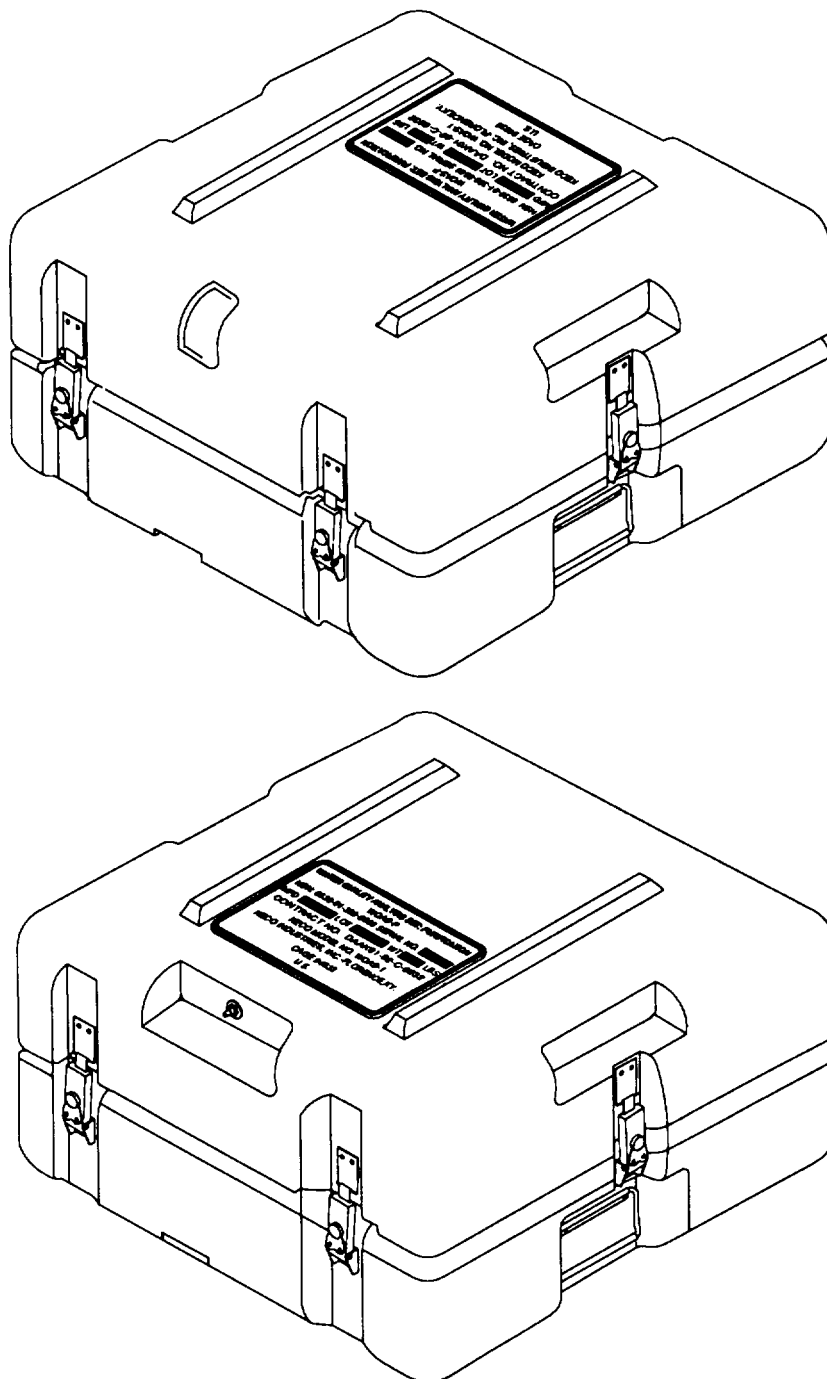


Figure 1-1. Water Quality Analysis Set: Purification

CHAPTER 1

INTRODUCTION

Section I. GENERAL INFORMATION

1-1. SCOPE.

This manual covers the use and maintenance of the Water Quality Analysis Set Purification (WQAS 1), in testing water for contamination. This manual provides descriptions of the various meters and accessory equipment and supplies with instructions for operating and maintaining them. Also included are instructions for preparing the unit for storage and shipment.

1-2. MAINTENANCE FORMS AND PROCEDURES.

Department of the Army forms and procedures used for equipment maintenance will be those prescribed by DA Pam 738-750 as contained in the Maintenance Management Update.

1-3. CORROSION PREVENTION AND CONTROL (CPC).

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. 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 these materials may be a corrosion problem. If a corrosion problem is identified, it can be reported using Standard Form 368, Product Quality Deficiency Report. Use of keywords such as "corrosion," "rust," "deterioration," or "cracking" will ensure that the information is identified as a CPC problem. The form should be submitted to the address specified in DA PAM 738-750.

1-4. 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.

1-5. REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATION (EIR).

If your Water Quality Analysis Set: Purification needs improvement, let us know. Send us an EIR. You, the user, are the only one who can tell us what you don't like about your equipment. Let us know why you don't like the design or performance. Put it on an SF 368 (Product Quality Deficiency Report). Mail it to us at Commander, U.S. Army Tank-automotive and Armaments Command, ATTN: AMSTA-TR-E/MPA, Warren, MI 48397-5000. We will send you a reply.

Section II. EQUIPMENT DESCRIPTION

1-6. EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES.

The Water Quality Analysis Set Purification is a one-man portable suitcase kit containing equipment for testing water quality. The kit is self-contained in a gasketed waterproof case. Foam inserts secure equipment in the case. Carbon impregnated foam liners protect electromagnetic pulse sensitive instruments.

1-7. LOCATION AND DESCRIPTION OF MAJOR COMPONENTS.

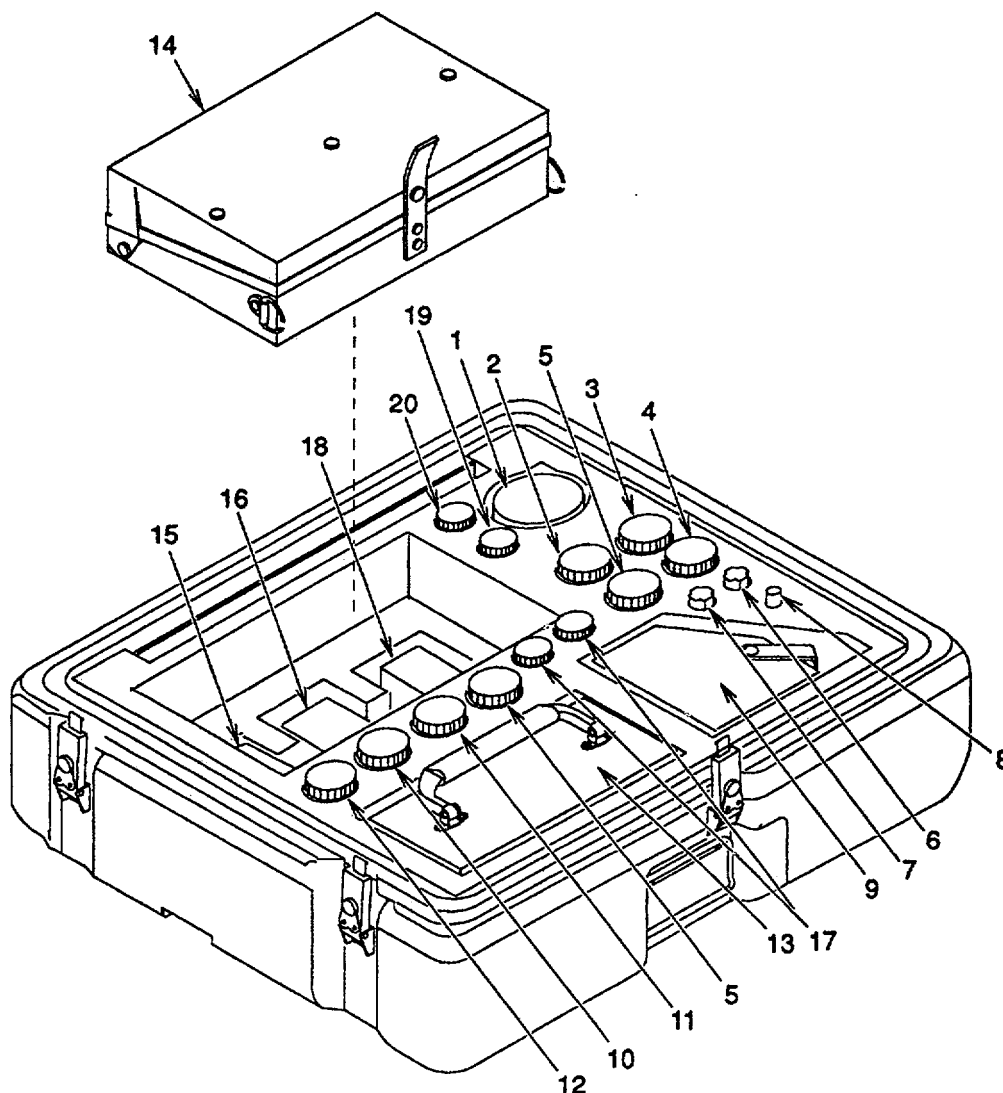


Figure 1-2. Major Components, Lower Section