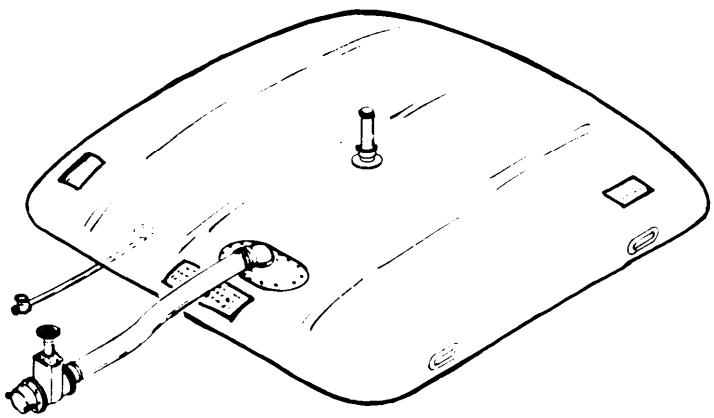
TM 5-5430-218-13

TECHNICAL MANUAL

OPERATOR'S, UNIT AND INTERMEDIATE DIRECT SUPPORT MAINTENANCE MANUAL



TANK, FABRIC, COLLAPSIBLE, 3,000 GALLON
NSN (5430-00-268-8187)

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HEADQUARTERS, DEPARTMENT OF THE ARMY
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TECHNICAL MANUAL

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HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGINGTON, D.C., 14 September 1987

Operator's, Unit and Intermediate Direct Support Maintenance Manual

TANK, FABRIC, COLLAPSIBLE, 3,000 GALLON
NSN 543040-268-8187

REPORTING OF ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If mistakes are found or if a way to improve the procedures exists, please let us know. Mail a letter, DA Form 2028-2 located in the back of this manual, directly to: Commander, US Army Aviation and Troop Command, ATTN: AMSAT-1-MP, 4300 Goodfelw Blvd., St. Louis, MO 63120-1798. A reply will be sent to you.

DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited

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CHAPTER 1

INTRODUCTION

Section I - GENERAL INFORMATION

1-1. SCOPE

a. Type of Manual. This operation and maintenance manual includes operator, unit and intermediate direct support maintenance of a 3,000 gallon collapsible fuel tank.

b. Model Numder and Equipment Name. Tank, Fabric, Collapsible, 3,000 Gallon.

c. Purpose of Equipment. The 3,000 gallon tank is a collapsible fabric container designed to store petroleum-based fuels. The collaspible is intended for use as a fuel storage container when small capacity quick storage facilities are needed, and where permanent fuel storage facilities are not available. The tank will be used to store fuel that is off loaded from shipping tankers and then used to dispense fuel to support operations. The tank is primarily used in quick-response deployment operations.

d. Special Limitations Equipment. Tank fittings are made of aluminum alloy and can easily be damaged. Special care should be taken when handling tank components during assembly and disassembly.

1-2. MAINTENANCE FORMS RECORDS AND REPORTS.

Department of the Army forms and procedures used for equipment maintenance will be those prescribed by DA PAM 738-750, The Army Maintenance Management System (TAMMS).

1-3. REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR'S).

If the 3,000 gallon tank needs improvement, send an EIR. Users, should report problems with the equipment design, or performance. Mail an SF 368 (Quality Deficiency Report) to: Commander, US Army Aviation and Troop Command, ATTN: AMSAT-I-MDO 4300 Goodfellow Boulevard, St. Louis, MO 63120-1798. A reply will be sent.

1-4. WARRANTY INFORMATION.

There is no warranty information provided in this technical manual.

1-5. NOMENCLATURE CROSS-REFERENCE LIST

This listing inches nomenclature cross-references used in this manual.

Common Name	Official Nomenclature
Dike	Berm

Section II. EQUIPMENT DESCRIPTION

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

a. Characteristics. The tank envelope is made from single ply nylon cloth coated on both sides with a fuel resistant elastomer. The tank and components are suitable for operational deployment at temperatures from plus 125°F (51°C) to minus 25°F (-31°C). The tank and components are designed to resist exposure to extreme temperatures, rain, snow, ice, fungi growth and high humidity conditions. Access to the inside of the tank can be made through the bonded filler/discharge fitting. The tank is self-supporting and does not require earth embankment support. The only support required involves using sand bags during filling operations.

b. Capabilities. The tank has the capacity to store 3,000 gallons (11,355 liters of fuel. The tank and components are compatible with US standard military fuel storage and handling equipment and can be quickly deployed on flat ground with a minimum of surface preparation.

c. Features. The collapsible integral tank envelope contains three bonded fittings for attaching one filler/discharge assembly, one drain assembly and one vent and pipe assembly. Handles are also bonded on the tank envelope to aid movement of an empty tank.

1-7. LOCATIONS AND DESCRIPTION OF MAJOR COMPONENTS.

The 3,000 gallon collapsible tank (See Figure 1-1) consists of the following major components:

a. Tank Envelope. The tank envelope is fabricated with elastomer coated panels to form an integral fuel storage container. The tank envelope comes with three bonded accessory fittings which secure the vent and pipe assembly, filler/discharge assembly, and drain assembly to the tank envelope.

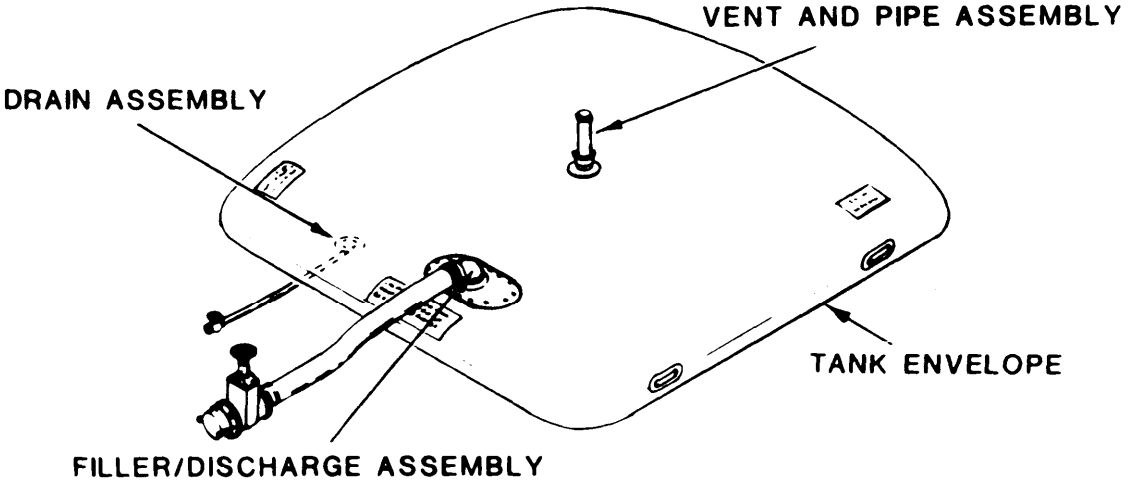

Figure 1-1. Collapsible 3000 Gallon Tank Assembly