

TECHNICAL MANUAL

OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT  
AND GENERAL SUPPORT MAINTENANCE MANUAL  
(INCLUDING REPAIR PARTS AND  
SPECIAL TOOLS LIST)

DRUMS, FABRIC COLLAPSIBLE NON-VENTED;

500 GALLON, LIQUID FUEL,

PART NO. 13216E9172,

NSN 8110-753-4892,

500 GALLON, LIQUID FUEL,

PART NO. 13216E9170

NSN 8110-824-1444,

250 GALLON, POTABLE WATER

PART NO. 5-13-1681-1

NSN 8110-00-900-8328

55 GALLON, POTABLE WATER

PART NO. 5-13-206-1

NSN 8110-00-089-4505

This copy is a reprint which includes current  
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Operator, Organizational, Direct Support  
and General Support Maintenance Manual  
(Including Repair Parts and Special Tools List)

- DRUMS, FABRIC, COLLAPSIBLE, NON-VENTED
- 500 GALLON, LIQUID FUEL
- PART NO. 13216E9172, NSN 8110-00-753-4892
- 500 GALLON, LIQUID FUEL
- PART NO. 13216E9170, NSN 8110-00-824-1444
- KIT, TIEDOWN (NSN 8110-00-856-6245)
- REPAIR KIT, EMERGENCY, TYPE I (NSN 8110-00-856-6244)
- REPAIR KIT, EMERGENCY, TYPE II (NSN 8110-00-856-6246)
- TOWING AND LIFTING YOKE (NSN 8110-00-856-6243)

Current as of 10 SEPTEMBER 1982

**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 the procedures, please let us know. Mail your letter, 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, U.S. Army Aviation and Troop Command, ATTN: AMSAT-I-MP, 4300 Goodfellow Blvd., St. Louis, MO 63120-1798. A reply will be furnished directly to you.

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# CHAPTER 1

## INTRODUCTION

### Section I. GENERAL

#### 1-1. Scope.

*a.* This manual is for your use in operating and maintaining the drums described in Section II.

*b.* Throughout this manual, the use of the terms, right, left, front and rear indicate directions from the viewpoint of the operator facing the end of the drum where the coupler valve assembly or faucet valve is attached.

#### 1-2. Maintenance Forms and Records.

Maintenance forms and records that you are required to use are DA Form 2402 (Exchange Tag), DA Form 2407 (Maintenance Request), and Standard Form 368 (Quality Deficiency Report). Their use, and procedures for using them are explained in DA PAM 738-750 (The Army Maintenance Management System).

#### 1-3. Hand Receipt.

*a.* Hand receipt for the End Item/Component of End Item (COEI), Basic Issue Items (BII), and Additional Authorization List (AAL) Items are published in a Hand Receipt Manual.

*b.* The Hand Receipt Manual numerical designation is the same as the related Technical Manual with the letters HR added to the number. These manuals are published to aid in property accountability and are available through: Commander, U.S. Army Adjutant General Publication Center, 2800 Eastern Blvd., Baltimore, MD.

#### 1-4. Administrative Storage.

*a.* Fill fuel drums and water drums to the maximum allowable level.

#### NOTE

**If local fire regulations prohibit storing equipment with fuel in the system, completely drain the fuel drums.**

*b.* Placement of equipment in administrative storage should be for short periods of time when a shortage of maintenance effort exists. Items should be in mission readiness within 24 hours or within the time factors as determined by the directing authority.

During the storage period appropriate maintenance records will be kept.

*c.* Before placing equipment in administrative storage, current preventive maintenance checks and services should be completed, shortcomings and deficiencies should be corrected, and all modification work orders (MWO's) should be applied.

*d.* Storage site selection. Inside storage is preferred for items Selected for administrative storage. If inside storage is not available, trucks, vans, tents, conex containers and other containers may be used.



**Do not fill the drum with air. Vapors inside drum can cause an explosion.**

**Never stack drums on top of each other or place equipment on top of the drums. Drums are heavy and can cause serious injury to personnel if they fall.**

#### CAUTION

**To avoid accelerated deterioration, store drums out of direct sunlight, extreme cold and away from heat of any kind.**

2) Keep the drums out of direct sunlight when storing them outdoors. Place them in a tent or under a tarp to block the sun and keep the snow and ice off during cold weather.

3) Store drums away from any kind of heat. If no shelter is available cover the drums with wet burlap or other cloth, to keep the drums out of direct sunlight.

#### 1-5. Destruction of Army Materiel to Prevent Enemy Use.

*a. General.* This type of equipment may be destroyed by mechanical method or by using the fuel which the drums contain to set it on fire.

**NOTE**

**The burning of drums that contain fuel can be used as a means of destroying other pieces of equipment in the same area.**

b. Mechanical Demolition. Use an axe, pick, mattock, sledge, or any other heavy implement to smash the coupler/faucet valves, the pressure control unit, and to slash holes in the collapsible drum.

c. Demolition by Fire. Use some of the fuel contained in the drum to saturate the equipment and ignite.

d. Additional Information. For additional information on procedure for destruction of material, refer to TM 750-244-3.

**1-6. Reporting Equipment Improvement Recommendations (EIR).**

EIR's will be prepared on SF 368 (Quality Deficiency Report). Instruction for preparing EIR's should be mailed directly to Headquarters, U.S. Army Aviation and Troop Command, ATTN: AMSAT-I-MDO, 4300 Goodfellow Blvd., St. Louis, MO 63120-1798. A reply will be furnished directly to you.

**Section II. DESCRIPTION AND DATE**

**1-7. Description.**

a. *Longie Fuel Drum.* The longie fuel drum, P/N 13216E9172 (fig. 1-1) is a durable, nonvented collapsible container that is designed for a working pressure of 4 to 5 psi (pounds/square inch) (0.3 to 0.4 kg/cm) and a maximum pressure of 45 psi (3.17 kg/sq cm). When filled to its 500 gallon (1893 liter) capacity, the drum is cylindrical in shape with rounded ends. It can be towed, at speeds not to exceed 10 mph (miles/hour) (16 km/hr), for short distances over smooth terrain, using the towing and lifting yoke. The drum fabric is impregnated with fuel resistance synthetic rubber. The front and rear closure plates are connected by a network of wire ropes (3 ea) that form an interior support for the drum. The front closure plate has a threaded coupler valve assembly. When the drum is collapsed, it can be folded to permit transportation by cargo truck.

b. *Shortie Fuel Drum.* The shortie drum, P/N 13216E9170 (fig. 1-1) also has a capacity of 500 gallons (1893 liters). The drum being larger in diameter than the longie drum, P/N 13216E9172. The interior constructions of the short drum is identical to that of the longer drum, except that the three wire ropes used to form the interior support are shorter. The shortie drum may be towed, handled, and when empty, folded in the same manner as the longie drum.

c. *DELETED*

d. *Accessory Items.*

(1) *Towing and Lifting Yoke.* A towing and lifting yoke (fig. 1-3) can be attached to the ends of the 500 gallon (1893 liter) fuel drums and the 250 gallon (946 liter) water drum for use in towing and lifting the drums.

(2) *Tiedown Kit.* A tiedown kit (fig. 1-4) is used to secure drums when they are being transported by cargo truck.

(3) *Repair Kits.* The repair kits (figs. 1-5 and 1-6) are furnished for emergency use only to prevent leakage until the operator can empty the drums. When these kits are used to make such emergency repairs, the repaired drum should not be moved, towed, lifted or transported until it is completely empty.

(4) *Pressure Control.* When filling the 500 gallon (1893 liter) fuel drums, a pressure control (fig. 1-7) is attached between the pump assembly and the drum during filling operation. The purpose of the pressure control is to automatically shut off the flow of fuel to the drum when the internal pressure of the drum is 4 to 5 psi (0.3 to 0.4 kg/sq cm). The automatic action will prevent over filling the drum and insure its acceptability for high altitude air transport.

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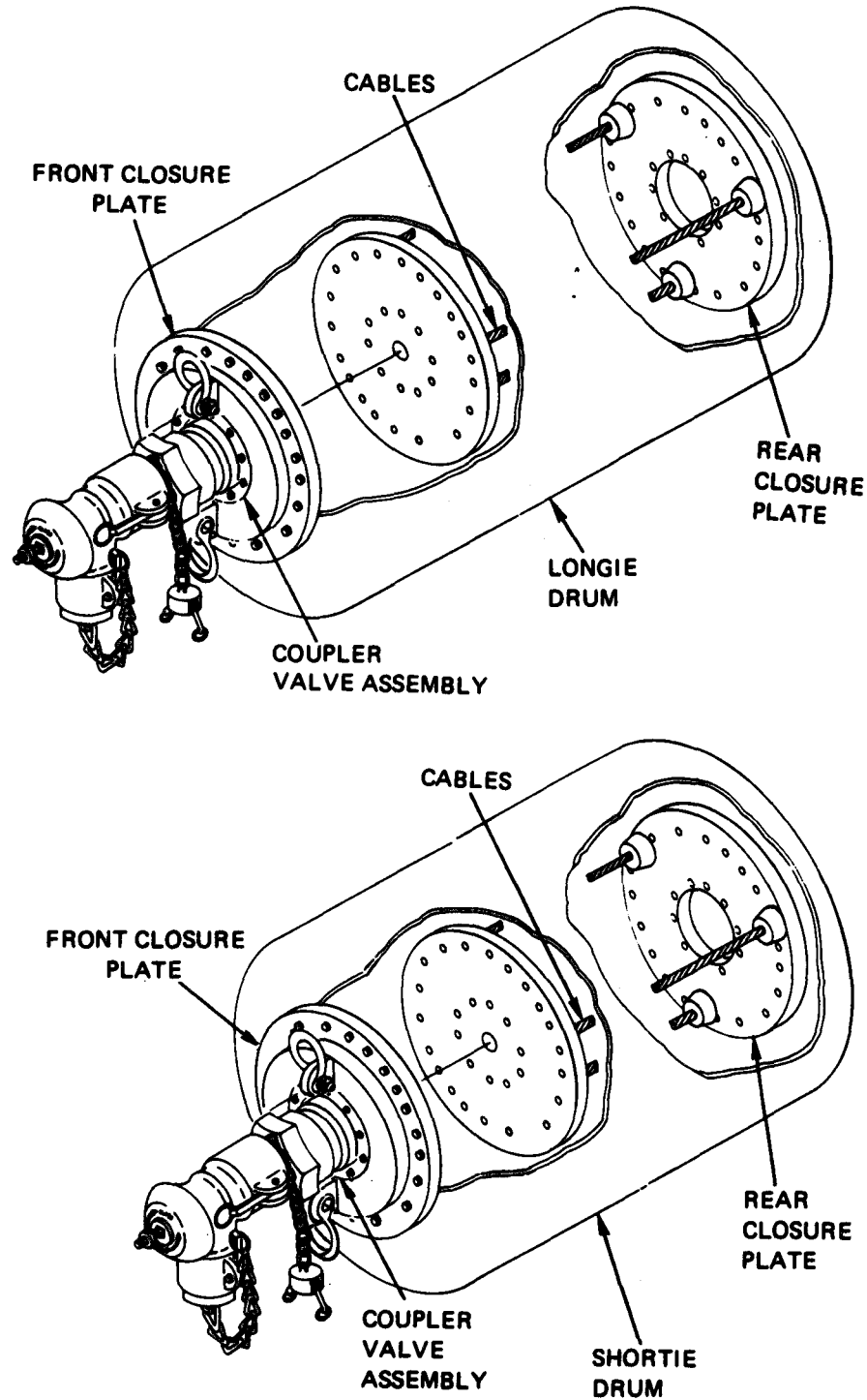


Figure 1-1. Fuel Drums, 500 Gallon (1893 Liter) Capacity