

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

**OPERATOR AND ORGANIZATIONAL MAINTENANCE MANUAL
INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST
DISTRIBUTOR, WATER COLLAPSIBLE TANK;
900 GALLON; GRAVITY FEED
(U.S. RUBBER MODEL CE-9C-2) FSN 3825-542-2173**

**Headquarters, Department of the Army, Washington, D.C.
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SAFETY PRECAUTIONS

The safety precautions to consider while operating the water distributor are those precautions associated with the vehicle used in conjunction with the water distributor.

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CHAPTER 1

INTRODUCTION

Section I. GENERAL

1-1. Scope

This manual contains information and instructions necessary for the operation and maintenance of the Water Distributor.

1-2. Forms and Records

a. DA forms and procedures used for equipment maintenance will be only those prescribed by TM 38-750, Army Equipment Record Procedures.

b. Reporting of errors, omissions, and recommendations for improving this publication by the individual user is encouraged. Reports should be submitted on DA Form 2028 (Recommended Changes to DA Publications) and forwarded direct to Commanding General, U. S. Army Mobility Equipment Command, ATTN: AIMSMIE-MIPP, 4300 Goodfellow Boulevard, St. Louis, Mo. 63120.

Section II. DESCRIPTION AND DATA

1-3. Description

The water distributor unit consists of a collapsible water tank, (fig. 1-1) a gravity-fed spray bar, and all required accessories and connections (fig. 1-2). The unit is to be mounted on a standard military 2½ ton, dump truck, and is intended for use in dust alleviation and soil stabilization of roads and air fields.

a. *Collapsible Tank (fig. 1-1).* The 900 gallon water storage tank is constructed of synthetic rubber covered nylon cloth with molded rubber fitting assemblies on the top and the aft end.

b. *Manhole Cover Assembly.* The manhole cover assembly is an aluminum 14-inch x 20-inch rectangular cover which attaches to the molded rubber fitting located on the top of the tank. It is removable to permit access into the tank for cleaning purposes. Mounted off center on the aluminum cover is a ½ inch bronze pipe nipple fitted with a threaded pipe cap which is removed to permit passage of air during filling or draining of the tank. Centered on the manhole cover is a 2-inch male threaded opening to permit connection of a 2-inch hard rubber hose for either filling the tank with water or pumping water from the tank. Connected integrally with the 2-inch opening is a 2-inch strainer having a solid flat bottom with side opening which will permit pumping water to a depth of approximately one inch from bottom of tank.

c. *Drain Outlet Assembly (fig. 1-1).* Attached to the molded rubber fitting of the aft end of the tank is a 2-inch drain outlet for complete drainage of the tank. It is also attaching point for the spray bar assembly.

d. *Repair Kit.* An emergency repair kit is included with the collapsible tank for repairing holes, cuts, and tears in the tank wall by the use of fabric patches. The repair kit consists of:

Cement, air curing, six 7/2 pint cans

Brush, 1 1/2 inches wide

Cheesecloth, bleached 36 inches wide by 18 inches long

Coated cloth, 12 inches wide by 18 inches long

Roller, hand, 2 inches wide, one

Emery cloth, 180 grit, six 4 ½ inches x 5 ½ inches sheets

Repair instructions

3 inches Mechanical clamp, two

5 inches Mechanical clamp, one

Gum strip, 1 inch wide, 72 inches long

e. *Spray Bar Assembly.* The spray bar assembly consists of a series of 2-inch black steel pipes perforated with ¼-inch holes spaced 3-inches apart. The two center pipes or bars are joined by a tee connection at the center to which is attached a 2-inch rubber hose which in turn is attached to the tank by a quick closing lever type brass valve. Attached to the center bars by swing joints are two outer bars which are folded inward when not in use and secured by a snap chain wrapped around the bars and held by an eye bolt welded to the top of the center bar. When fully extended to 180° the spray bars measure approximately 16 feet, and about 7 feet when folded. To manually control the flow of water, 20 feet of ½ inch rope is attached to the valve lever and run from the valve, through a chain hole in the truck dump, to the cab of the truck.

1-4. Identification and Tabulated Data

a. *Identification.* The tank capacity and identification is stenciled conspicuously on the tank. The torque valve is stenciled near the manhole cover.

b. *Tabulated Data.*

Manufacturer U S. Rubber Co.

Model..... CE-9C-2