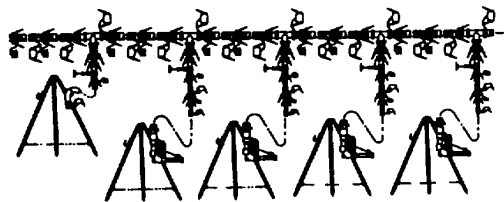
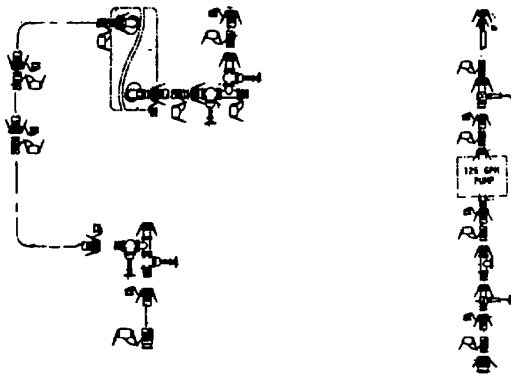


TECHNICAL MANUAL

OPERATOR'S AND UNIT-
MAINTENANCE MANUAL

20K GALLON WATER STORAGE
AND
DISTRIBUTION SYSTEM
MODEL 20KWSDS
(NSN: 4320-01-382-2684) (EIC: ZIN)



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HEADQUARTERS, DEPARTMENT OF THE ARMY
31 AUGUST 1994

**OPERATOR'S AND UNIT
MAINTENANCE MANUAL****20K GALLON WATER STORAGE AND DISTRIBUTION SYSTEM****MODEL 20KWSDS****(NSN: 4320-01-382-2684) (EIC: ZIN)****REPORTING ERRORS AND RECOMMENDING EIMPROVEMEENTS**

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 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 and Troop Command, ATTN: AMSAT-I-MP, 4300 Goodfellow Blvd., St. Louis, MO 63120-1798. In either case, a reply will be furnished directly to you.

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HOW TO USE THIS MANUAL

Be sure to read all Warnings before using your equipment.

This manual contains operating and maintenance instructions for operation and maintenance of the 20K Water Storage and Distribution System.

- Chapter 1 Introduces you to the equipment and gives you information such as weight, height, length, generally used abbreviations and information on how the unit works. The chapter is preceded by a full page illustration of the equipment.
- Chapter 2 Provides information necessary to identify and use the equipment's operating controls. Operating instructions in this chapter tell you how to use the equipment in both usual and unusual weather conditions. In addition, preventive maintenance instructions provide information needed to inspect and service the 20K Water Storage and Distribution System.
- Chapter 3 Provides operator troubleshooting procedures for identifying equipment malfunctions and maintenance instructions for performing operator maintenance tasks.
- Chapter 4 Provides unit maintenance personnel with troubleshooting procedures for identifying equipment malfunctions and maintenance instructions for repairing defective equipment.
- Appendix A Provides a list of frequently used forms and publications referenced or used in this manual.
- Appendix B The Maintenance Allocation Chart identifies repairable components and the maintenance level authorized to perform the repairs.
- Appendix C Lists components that are not mounted on the equipment, but are required to make the unit functional. All components in the Components of End Item and Basic Issue Items Lists are illustrated for easy identification.
- Appendix D Lists additional equipment authorized for your unit for use with the 20K system, but not supplied as part of the system. This equipment list may include fire extinguishers, buckets, protective clothing, etc.
- Appendix E Provides you with information about expendable supplies such as sealants, lubricants, chemicals, etc. that are used when operating or maintaining the equipment.
- Appendix F Contains lubrication instructions that are required to keep the equipment in good working condition.
- Appendix G Provides a list of items and instructions on how to make certain tools and devices required to perform some of the maintenance tasks contained in this manual.
- Appendix H Provides the torque values and related information for the fasteners used in the water system and related items of equipment.
- Appendix I Lists parts that must be replaced when performing maintenance on components of the water system. This list includes such things as gaskets, lockwashers, and seals.

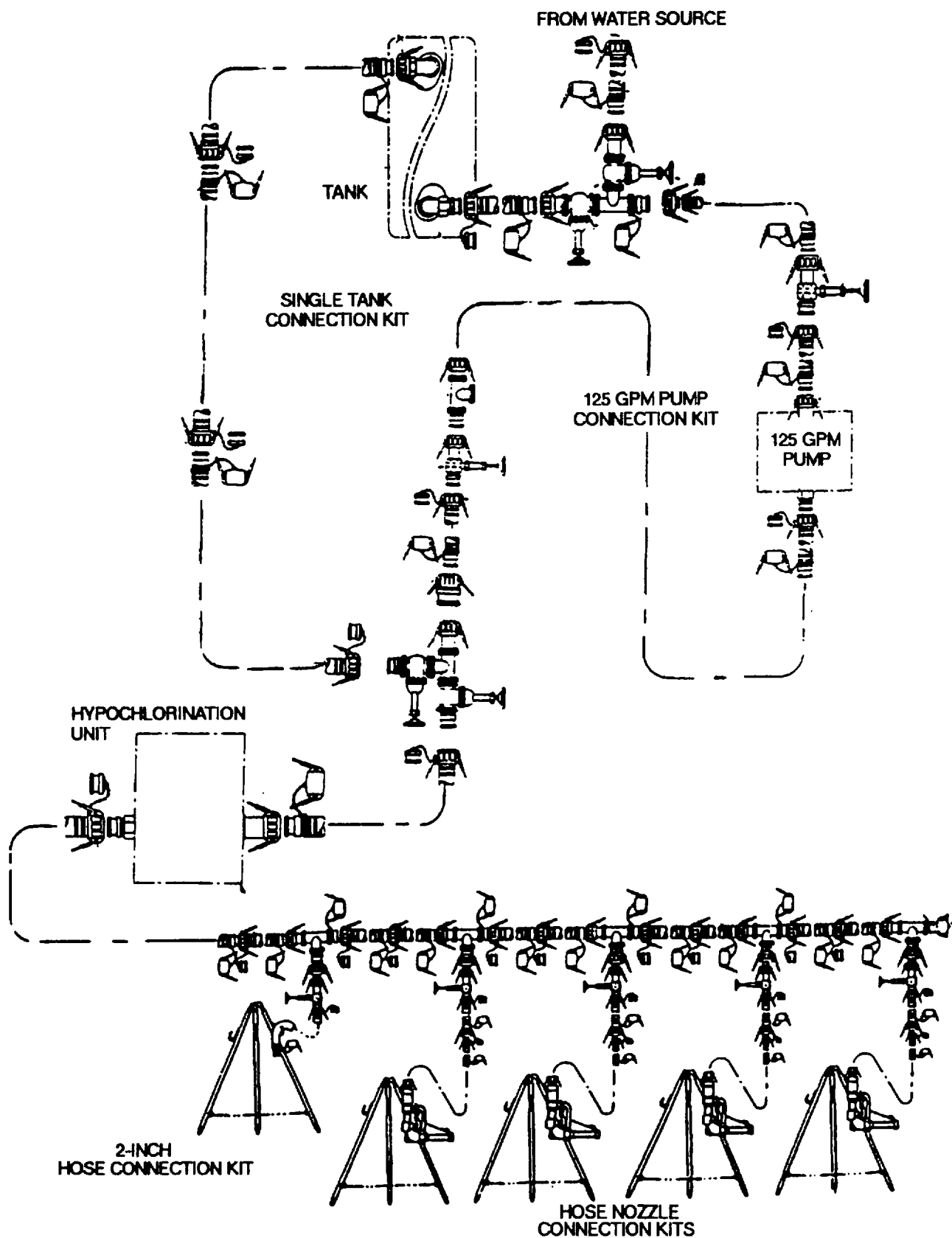


Figure 1-0. 20K Gallon Water Storage and Distribution System

CHAPTER 1

INTRODUCTION

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Section I. GENERAL INFORMATION

1.1 SCOPE.

This manual contains Operating instructions, and Unit maintenance procedures required to operate and maintain the 20K Gallon Water Storage and Distribution System, Model 20KWSDS. The purpose of the water system is receive, store and distribute potable water to individual water bags, tanker trucks and trailer mounted water tanks (water buffaloes).

1.2 MAINTENANCE FORMS. RECORDS AND RREPORTS.

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

1.3 CORROSION PREVFNTION AND CONTROL (CPC).

1.3.1. 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.