

**TECHNICAL MANUAL
OPERATOR'S, UNIT, AND
DIRECT SUPPORT
MAINTENANCE MANUAL
INCLUDING REPAIR PARTS
AND SPECIAL TOOLS LIST**

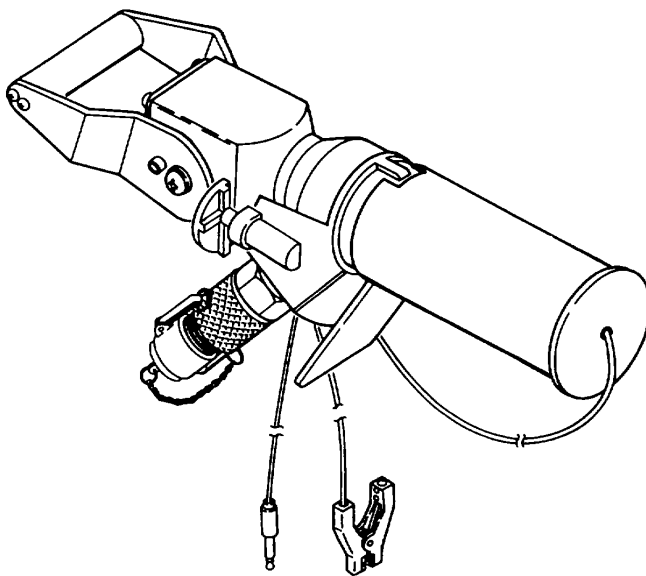
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**CLOSED-CIRCUIT
REFUELING NOZZLE
ASSEMBLY
MODEL 64017
(NSN: 4930-01-363-6449)**

TECHNICAL MANUAL

NO. TM 10-4930-245-13&P

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 15 December 1993

TECHNICAL MANUAL
OPERATOR'S UNIT, AND DIRECT SUPPORT
MAINTENANCE MANUAL
INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST (RPSTL)
FOR
CLOSED CIRCUIT REFUELING NOZZLE ASSEMBLY
MODEL 64017
NSN: 4930-01-363-6449

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 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. You may also submit your recommended changes by E-mail directly to <mpmt%avma28@st-louis-emh7.army.mil>. A reply will be furnished directly to you. Instructions for sending an electronic 2028 may be found at the back of this manual immediately preceding the hard copy 2028.

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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 Closed-Circuit Refueling (CCR) Nozzle Assembly.

- 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.
- Chapter 2 - Provides information necessary to identify and use the equipment. 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 closed-circuit refueling nozzle assembly.
- Chapter 3 - Provides operator troubleshooting procedures for identifying equipment malfunctions and maintenance procedures for performing operator maintenance tasks.
- Chapter 4 - Provides unit maintenance personnel with troubleshooting procedures for identifying equipment malfunctions and maintenance procedures for repairing defective equipment.
- Chapter 5 - Provides direct support maintenance personnel with maintenance instructions for performing repairs on equipment as authorized by the maintenance allocation chart.
- 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 - The Repair Parts and Special Tools List.
- Appendix D - 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 E - Lists additional equipment authorized for your unit for use with the CCR nozzle, but which are not supplied with the CCR nozzle.
- Appendix F - Provides you with information about expendable supplies such as sealants, lubricants, chemicals, etc., that are used when operating or maintaining equipment.
- Appendix G - Provides lubrication instructions.
- Appendix H - Mandatory Replacement Parts.
- Glossary.
- Alphabetical Index.

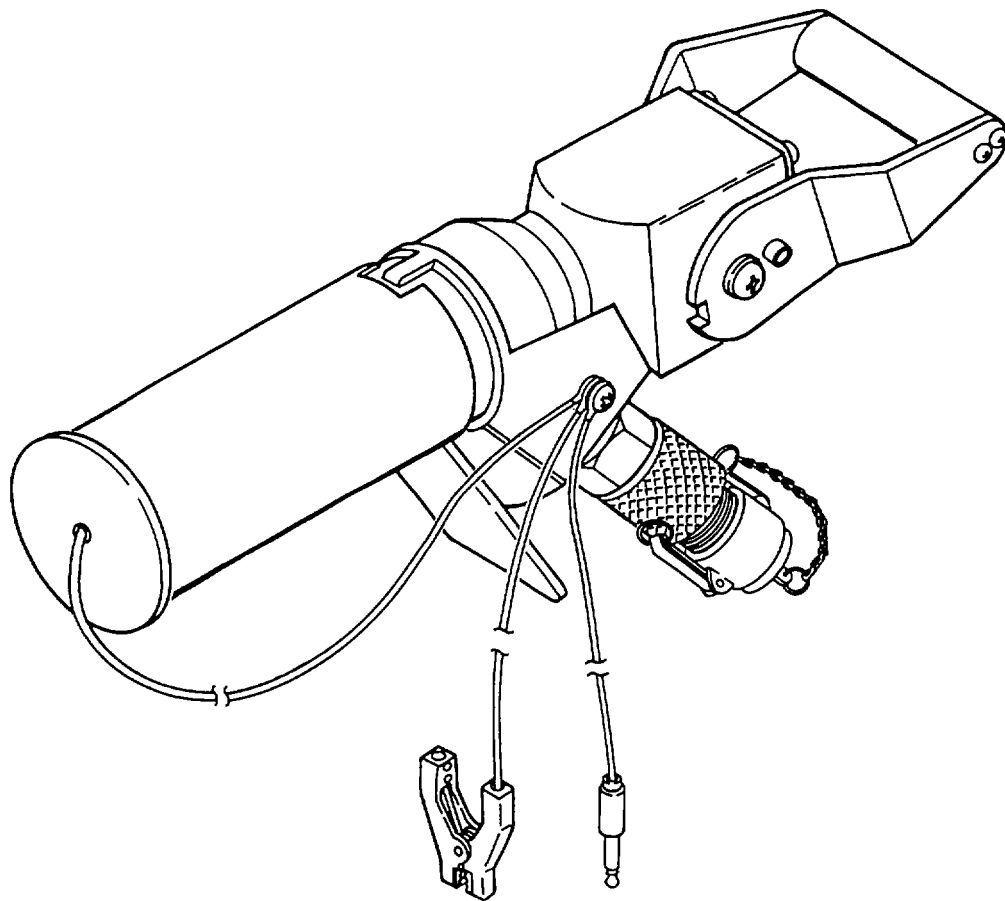


Figure 1-0. Closed Circuit Refueling Nozzle

CHAPTER 1 INTRODUCTION

Section I. GENERAL INFORMATION

1-1. SCOPE.

- a. Type of Manual. Operator's, Unit, and Direct Support Maintenance Manual, including Repair Parts and Special Tools List (RPSTL).
- b. Model Number and Equipment Name. Model #64017 Nozzle Assembly, Closed-Circuit Refueling.
- c. Purpose of Equipment. Closed Circuit Refueling Nozzle Assembly is used to refuel vehicles and helicopters. It mates with a closed-circuit adapter on the vehicle and features a quick-disconnect shutoff.

1-2. MAINTENANCE FORMS, RECORDS AND REPORTS.

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 filling these forms are explained in DA PAM 738-750, The Army Maintenance Management System (TAMMS).

1-3. DESTRUCTION OF ARMY MATERIEL TO PREVENT ENEMY USE.

Refer to TM 750-244-3 for instructions for destruction of equipment to prevent enemy use.

1-4. 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 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 the materials may be a corrosion problem.

If a corrosion problem is identified, it can be reported using Standard Form 368, Product Quality Deficiency Report. Using key words 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.