

TECHNICAL MANUAL
TM 5-3800-205-23-1

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, D.C. 15 July 2005

FIELD MAINTENANCE MANUAL
(INCLUDES UNIT AND DIRECT SUPPORT MAINTENANCE)

FOR

SCRAPER, TRACTOR
ELEVATING, SELF-PROPELLED, 11 CUBIC YARDS, SECTIONALIZED
MODEL 613CS
(NSN 3805-01-497-0697) (EIC: EE4)

and

DISTRIBUTOR, WATER, TANK TYPE,
2525 GALLON CAPACITY, SECTIONALIZED
MODEL 613CWD
(NSN 3825-01-497-0690) (EIC: EEF)

TRACTOR and COMMON COMPONENTS

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Distribution Statement A: Approved for public release; distribution is unlimited.

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HOW TO USE THIS MANUAL

INTRODUCTION

1. This manual is designed to help you perform troubleshooting and maintenance on the 613CS Scraper and the 613CWD Water Distributor.
2. This manual is divided into volumes and written in work package format:
 - a. Volume 1 addresses tractor/common components and procedures. Volume 2 addresses scraper unique components. Volume 3 addresses water distributor unique components.
 - b. Chapters divide the manual into major categories of information (e.g., *Introductory Information with Theory of Operation*, *Troubleshooting Procedures*, *Unit Maintenance Procedures*, *Unit Level Tractor Maintenance*, *Direct Support Level Tractor Maintenance*, *Components of End Item (COEI) Maintenance*, *Unit Level Scraper Maintenance*, *Direct Support Level Scraper Maintenance*, *Unit Level Water Distributor Maintenance*, *Direct Support Level Water Distributor Maintenance*, and *Supporting Information*).
 - c. Each chapter is divided into work packages, which are identified by a 6-digit number (e.g., 0001 00, 0002 00, etc.) located on the upper right-hand corner of each page. The work package page number (e.g., 0001 00-1, 0001 00-2, etc.) is located centered at the bottom of each page.
 - d. If a Change Package is issued to this manual, added work packages use the 5th and 6th digits of their number to indicate new material. For instance, work packages inserted between WP 0001 00 and WP 0002 00 are numbered WP 0001 01, WP 0001 02, etc.
3. Scan through this manual to become familiar with its organization and contents before attempting to operate or maintain the equipment.

CONTENTS OF VOLUME 1 OF THIS MANUAL

1. A *Warning Summary* is located at the beginning of this manual. Become familiar with these warnings before operating or performing maintenance on the scraper or water distributor.
2. A *Table of Contents*, located in the front of this manual, lists all chapters and work packages in the publication.
 - a. The Table of Contents also provides *Reporting Errors and Recommending Improvements* information and DA Form 2028 addresses, for the submittal of corrections to this manual.
 - b. If you cannot find what you are looking for in the Table of Contents, refer to the alphabetical *Index* at the back of this manual.
3. Chapter 1, *Introductory Information with Theory of Operation*, provides general information on the equipment.
4. Chapter 2, *Troubleshooting Procedures*, contains a *Troubleshooting Symptom Index*. If the machine malfunctions, this index should always be consulted to locate the appropriate troubleshooting procedure.
5. Chapter 3, *Unit Maintenance Procedures*, contains *Service Upon Receipt* and *PMCS*.
6. Chapter 4, *Unit Level Tractor Maintenance*, provides instructions on Unit level maintenance tractor components.
7. Chapter 5, *Direct Support Level Tractor Maintenance*, provides instructions on DS level maintenance of the tractor.
8. Chapter 6, *Components of End Item (COEI) Maintenance*, contains maintenance of the components of end item.
9. Chapter 7 includes *Supporting Information: References; Maintenance Allocation Chart (MAC) Introduction, Maintenance Allocation Chart (MAC); Expendable and Durable Items List; Tool Identification List; Torque Limits Preparation for Storage or Shipment; List of Principal Caterpillar Dealer; and NBC and EMP Susceptible Components*.

FEATURES OF THIS MANUAL

1. WARNINGS, CAUTIONS, NOTES, subject headings, and other important information are highlighted in **BOLD** print as a visual aid.

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