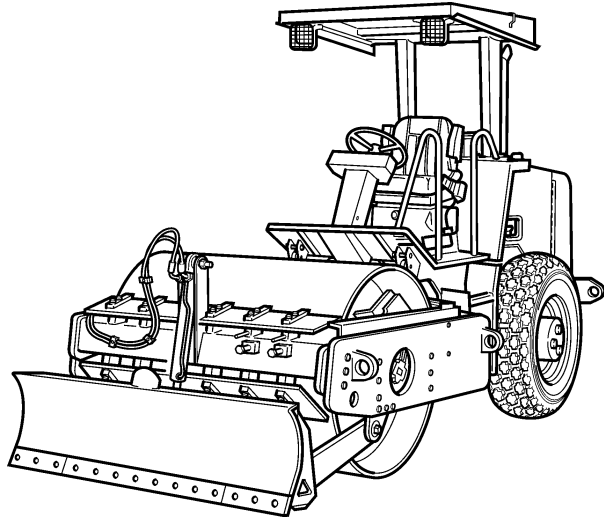


TECHNICAL MANUAL

OPERATOR'S MANUAL



ROLLER, VIBRATORY, SELF-PROPELLED, Types I & III

CATERPILLAR MODEL CS-433C

NSN 3895-01-456-2733 (Type I)
NSN 3895-01-456-2734 (Type III)

Contract No. DAAE07-98-C-S007

Approved for public release;
distribution is unlimited.

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REPORTING OF ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this publication. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Submit your DA Form 2028-2 (Recommended Changes to Equipment Technical Publications), through the Internet, on the Army Electronic Product Support (AEPS) website. The Internet address is <http://aeps.ria.army.mil>. If you need a password, scroll down and click on "ACCESS REQUEST FORM". The DA Form 2028 is located in the ONLINE FORMS PROCESSING section of the AEPS. Fill out the form and click on SUBMIT. Using this form on the AEPS will enable us to respond quicker to your comments and better manage the DA Form 2028 program. You may also mail, fax or email your letter, DA Form 2028, or DA Form 2028-2 direct to: Commander, U.S. Army Tank-automotive and Armaments Command, ATTN: AMSTA-AC-NML, Rock Island, IL 61299-7630. The email address is: amsta-ac-nml@ria.army.mil. The fax number is DSN 793-0726 or Commercial (309) 782-0726.

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HOW TO USE THIS MANUAL

This manual is designed to help operate and maintain the Caterpillar Model CS-433C, NSN 3895-01-456-2733 (Type I) and NSN 3895-01-456-2734 (Type III) Self-propelled Vibratory Roller. The Roller is a commercially available unit and is altered slightly for military use. This contains a commercial off-the-shelf (COTS) manual with supplemental data to support military-specific maintenance and operation. Listed below are some of the special features that are included to help locate and use the needed information:

Chapter One contains information specific to the military model.

Chapter Two contains the operator's Preventive Maintenance Checks and Services (PMCS) and Lubrication Instructions.

Chapter Three contains operation instructions specific to the military model.

Chapter Four is the commercial off-the-shelf manual from the manufacturer.

Appendix A lists references related to this manual.

Appendix B contains Components of End Item and Basic Issue Items Lists.

Appendix C covers an Additional Authorized List for the Roller.

Appendix D contains the Stowage and Sign Guide for the Roller.

Appendix E contains the Transportability Instructions. This appendix was added for information only and is not authorization for the operator to perform tasks or maintain additional tools on the vehicle.

An alphabetical index is provided to help locate main items in the text.

FOLLOW THESE GUIDELINES WHEN USING THIS MANUAL:

The operator shall read through this manual and become familiar with the contents before attempting to operate the Roller.

Read all WARNINGS and CAUTIONS before performing any procedure.

Any information in Chapters One, Two, and Three (Military-specific Operation) overrides any conflicting information contained in Chapter Four (manufacturer's commercial off-the-shelf manual).

CHAPTER 1

INTRODUCTION

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Section I. GENERAL INFORMATION

1-1. SCOPE

a. *Type of Manual.* Operator's Manual.

b. *Model Number and Equipment Name.* Caterpillar Model CS-433C, Roller, Vibratory, Self-propelled, NSN 3895-01-456-2733 (Type I) and NSN 3895-01-456-2734 (Type III).

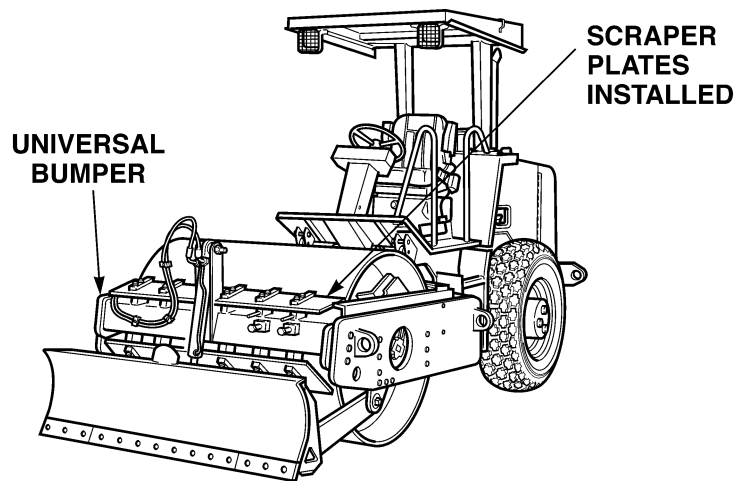
c. The Type I Roller is shown in Figure 1-1 (page 1-2), Figure 1-2 (page 1-2), Figure 1-3 (page 1-3), and Figure 1-4 (page 1-3).

d. The Type III Roller is shown in Figure 1-5 (page 1-4), Figure 1-6 (page 1-4), Figure 1-7 (page 1-5), and Figure 1-8 (page 1-5).

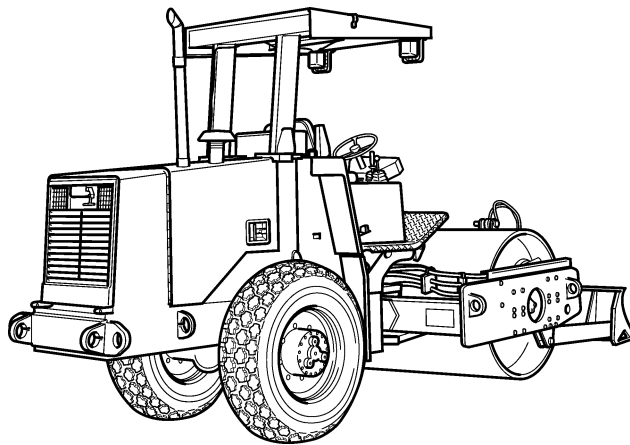
e. *Purpose of Equipment.* The Self-propelled Vibratory Roller, from here on referred to as the Roller, is a self-propelled roller designed to compact soil and gravel bases for parking lots, runways, streets, roads, and highways.

1-2. MAINTENANCE FORMS AND RECORDS

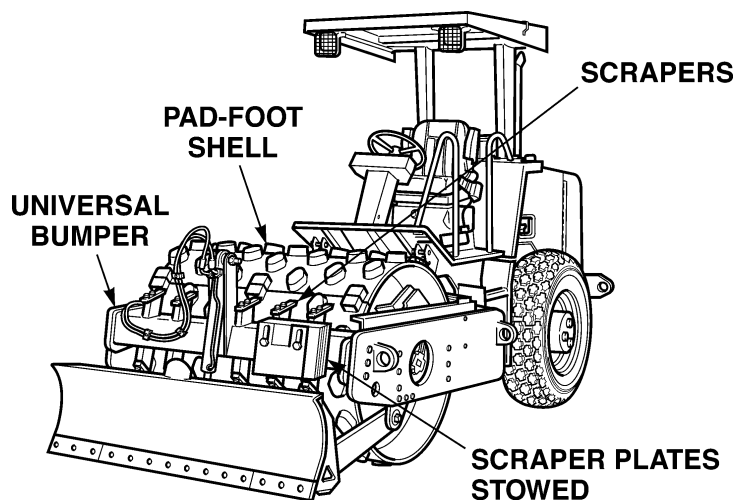
Department of the Army forms and procedures used for equipment maintenance will be those prescribed by DA PAM 738-750, The Army Maintenance Management System (TAMMS) (Maintenance Management UPDATE).



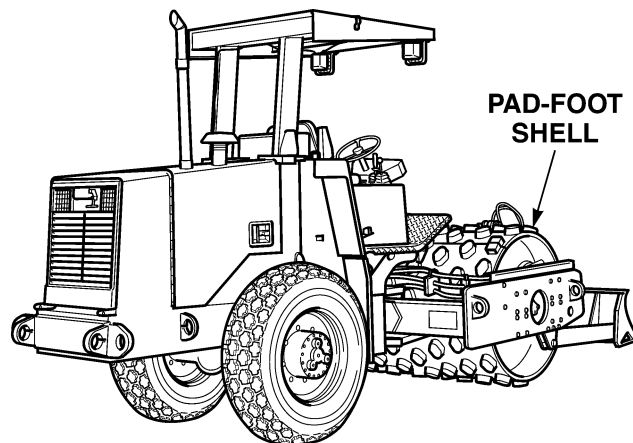
**Figure 1-1. Self-propelled Vibratory Roller (Type I)
Caterpillar Model CS-433C - Left Front View**



**Figure 1-2. Self-propelled Vibratory Roller (Type I)
Caterpillar Model CS-433C - Right Rear View**



**Figure 1-3. Self-propelled Vibratory Roller (Type I with Pad-foot Shell installed)
Caterpillar Model CS-433C - Left Front View**



**Figure 1-4. Self-propelled Vibratory Roller (Type I with Pad-foot Shell Installed)
Caterpillar Model CS-433C - Right Rear View**