

**TECHNICAL MANUAL
OPERATOR'S MANUAL
TRACTOR, FULL TRACKED;
LOW SPEED; DED; MEDIUM
DRAWBAR PULL; OSCILLATING
TRACK, 78-IN. GAGE
(CATERPILLAR MODEL D7F)
WITH RIPPER;
FSN 2410-177-7283
WITH WINCH;
FSN 2410-177-7284**

HEADQUARTERS, DEPARTMENT OF THE ARMY

This reprint includes all changes in effect at the time of
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Technical Manual

**HEADQUARTERS
DEPARTMENT OF THE
ARMY**

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***This manual supersedes TM 5-2410-233-10, 8 March 1971.**

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CHAPTER 1

INTRODUCTION

Section 1. GENERAL

1-1. Purpose and Scope

This manual is for use in operating and maintaining the Caterpillar Model D7F tractor which is issued with a winch (FSN 2410-177-7284) or with a ripper (FSN 2410-177-7283) .

1-2. Maintenance Forms and Records

Maintenance forms and records you are to use are explained in TM 38-750.

1-3. Recommending Improvements

You can improve this manual by recommending improvements, using DA Form 2028 (Recommended changes to Publications) or a letter, and mail direct to Commander, U.S. Army Mobility Equipment Command, ATTN: AMSME-MPP, 4300 Goodfellow

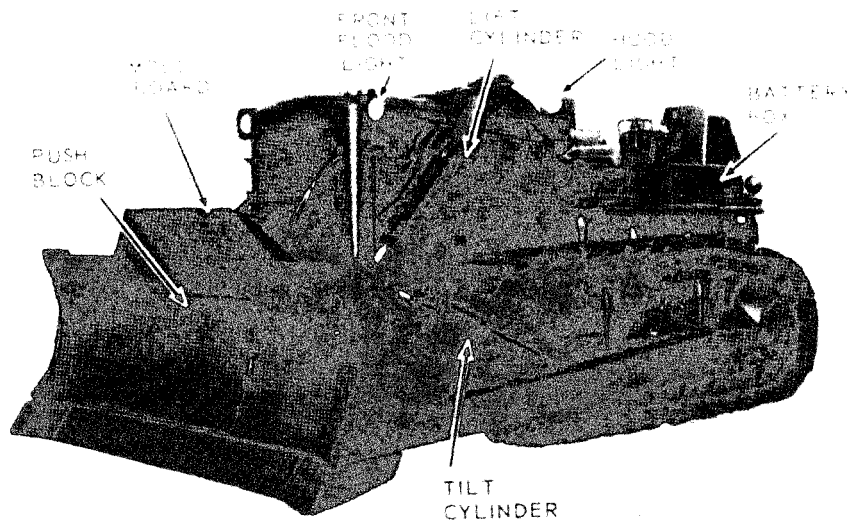
Boulevard, St. Louis, Mo. 63120. A reply will be furnished direct to you.

Section II. DESCRIPTION AND DATA

1-4. Description

a. The tractor (fig. 1-1 thru 1-3) is a full-tracked, low speed, medium-drawbar-pull tractor powered by a 6-cylinder, turbo-charged, model D333CT diesel engine. The three major assemblies of the tractor are a center section and two side section. The center section contains the power source and the operator's controls. The two side sections consist of track frames extending approximately the full length of the tractor. Full-tracked tractors serve many purposes, such as prime movers for pushing and pulling loads, power units for winches and hoists, and moving mounts for dozer blades and rippers. TM 5-331A contains a more complete description of the purposes and uses for which the tractor is designed, The tractor can operate in muck or water as deep as the height of the tracks. Operation in deeper water is possible for short periods of time if the tractor is properly waterproofed.

b. The hydraulically operated power units consist of a hydraulic pump mounted on the transmission, hydraulic lines leading to and from the control valves,



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Figure 1-1. Left-front, 3/4 view.