TM 9-766

WAR DEPARTMENT TECHNICAL MANUAL

TRUCK, BOMB SERVICE, M27

WAR DEPARTMENT • *18 AUGUST 1944*

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Washington 25, D. C., 18 August 1944

TM 9-766, Truck, Bomb Service, M27, is published for the information and guidance of all concerned.

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BY ORDER OF THE SECRETARY OF WAR:

G. C. MARSHALL,
Chief of Staff.

OFFICIAL:

J. A. ULIO,
Major General,
The Adjutant General.

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(For explanation of symbols, see FM 21-6.)

CONTENTS

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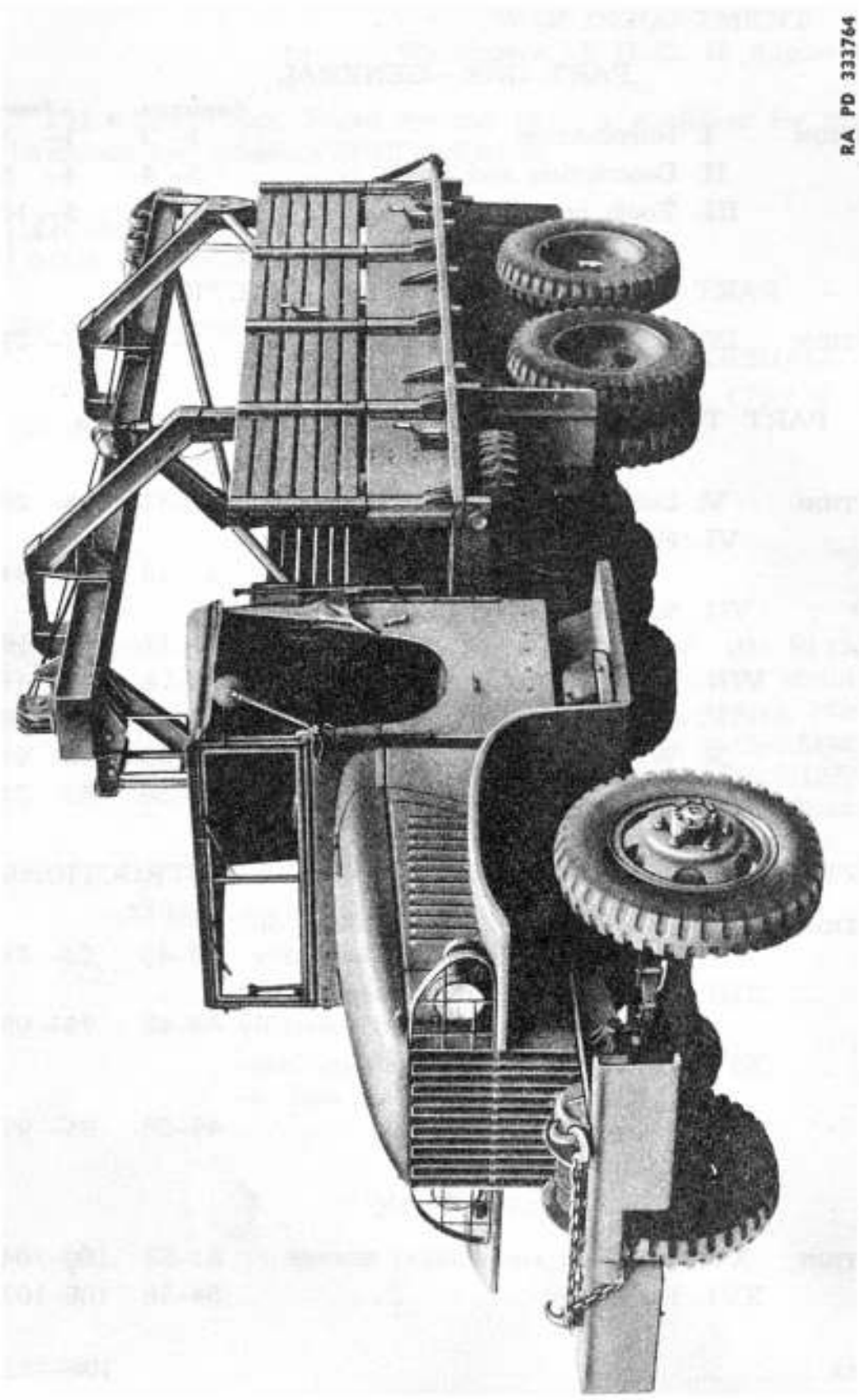

RA PD 333764

Figure 1—Three-quarter Front and Side View, Bomb Service Truck M27

RESTRICTED

PART ONE — GENERAL

Section I

INTRODUCTION

1. SCOPE.*

a. These instructions are published for the information and guidance of the personnel to whom the Bomb Service Truck M27 is assigned. It contains descriptions of major units of the bomb service equipment and their functions in relation to the other components of the equipment. Information on the 2½-ton 6x6 chassis, on which the equipment is mounted, is contained in TM 9-801.

b. This manual has the following arrangement:

(1) Part One, General, contains description and data. It lists the tools, spare parts, and equipment carried on the vehicle.

(2) Part Two, Operating Instructions, contains instructions for the operation of the bomb handling equipment with description and location of the controls and instruments.

(3) Part Three, Organizational Maintenance Instructions, contains information needed for the performance of the scheduled lubrication and preventive maintenance services, and instructions for maintenance operations which are the responsibility of the using organizations (first and second echelon).

(4) Part Four, Ordnance Maintenance Instructions, contains information for the guidance of the third and fourth echelons of maintenance. For Ordnance Maintenance information on the GMC 2½-ton, 6x6, chassis and power take-off refer to TM 9-801 and TM 9-1801.

(5) The Appendix, contains instructions for shipment and limited storage, and a list of references including standard nomenclature lists, technical manuals, and other publications applicable to the vehicle and the bomb handling equipment.

2. RECORDS.

a. Forms and records applicable for use in performing prescribed operations for the truck and bomb service equipment are listed in TM 9-801.

*To provide operating instructions with the materiel, this technical manual has been published in advance of complete technical review. Any errors or omissions will be corrected by changes or, if extensive, by an early revision.

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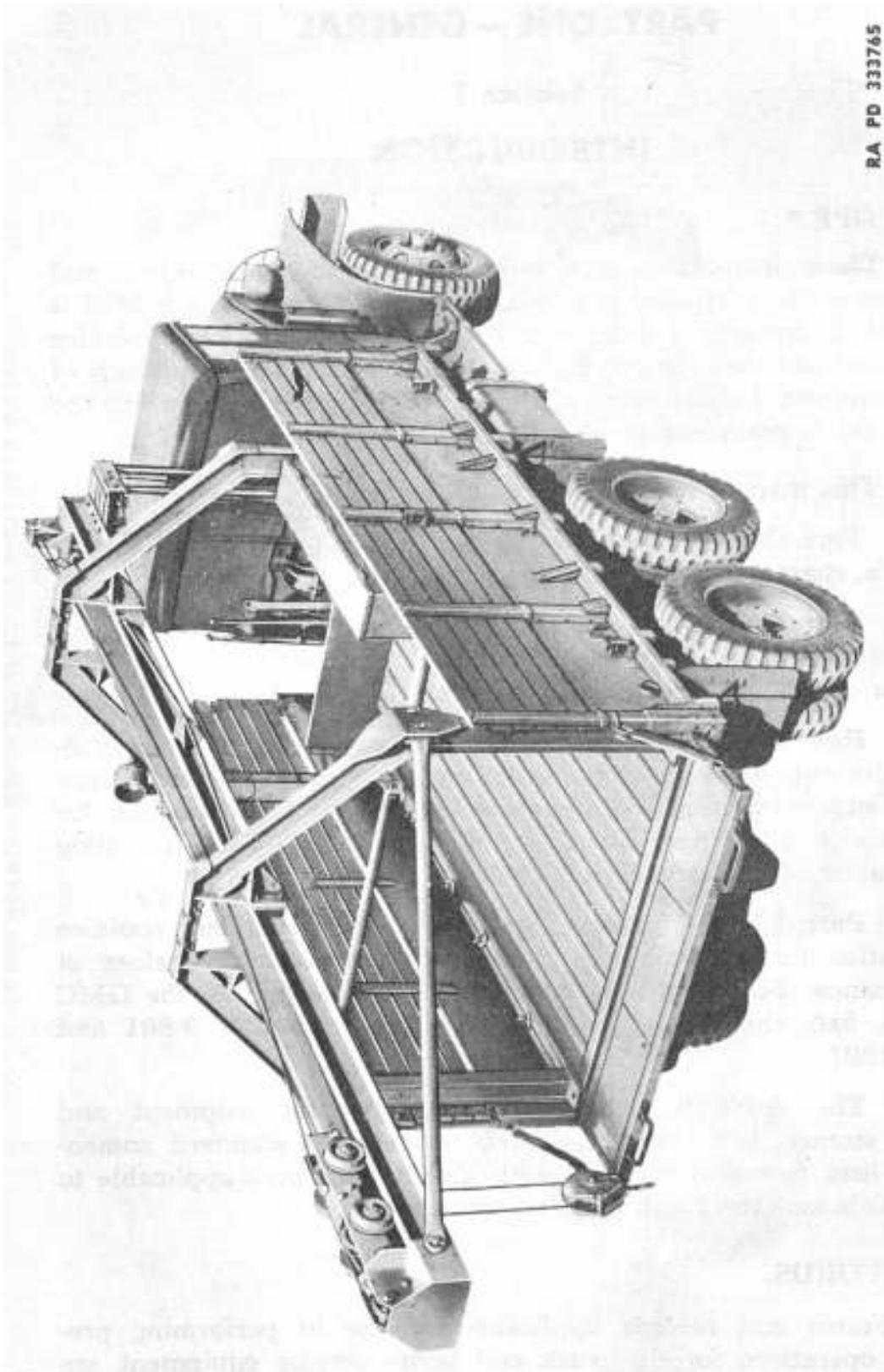

Figure 2—Three-quarter Rear and Side View From Above, Bomb Service Truck M27

INTRODUCTION

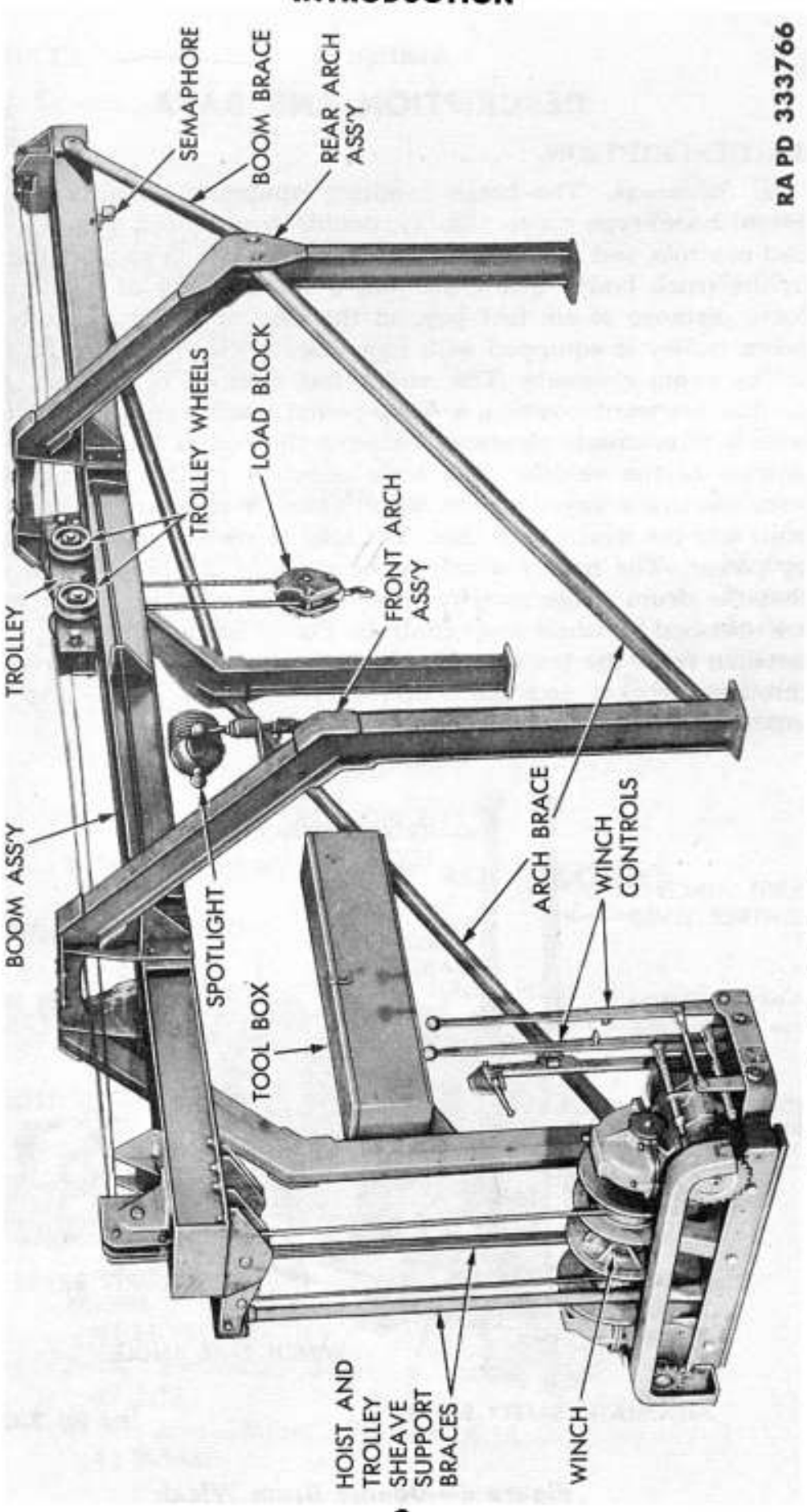

Figure 3—Bomb Service Equipment (Less Auxiliary Drive)

Section II

DESCRIPTION AND DATA

3. DESCRIPTION.

a. General. The bomb handling equipment consists of a horizontal boom-type crane (fig. 3), double-drum winch (fig. 4), cables and controls, and two structural steel arches which support the boom in the truck body. The crane has a lift capacity of 4,000 pounds for a distance of six feet beyond the rear of the truck body. The boom trolley is equipped with four wheels which run on the flanges of the boom channels. The trolley has a travel of 15 feet. At the normal rearward position, a 4,000-pound bomb can be lifted lengthwise with adequate clearance between the end of the bomb and the tailgate of the vehicle. The hoist winch is of the worm-gear type with the drum keyed to the worm gear. A reversing mechanism is built into the winch gear case. The load is lowered as well as hoisted by power. The trolley winch is the same as the hoist winch except that the drum is designed for the two trolley cables. Both winches are operated by single lever controls. Power for operating the winches is taken from the truck engine by a power take-off and drive shaft through sprocket and chain drives to the hoist and trolley winch input shafts.

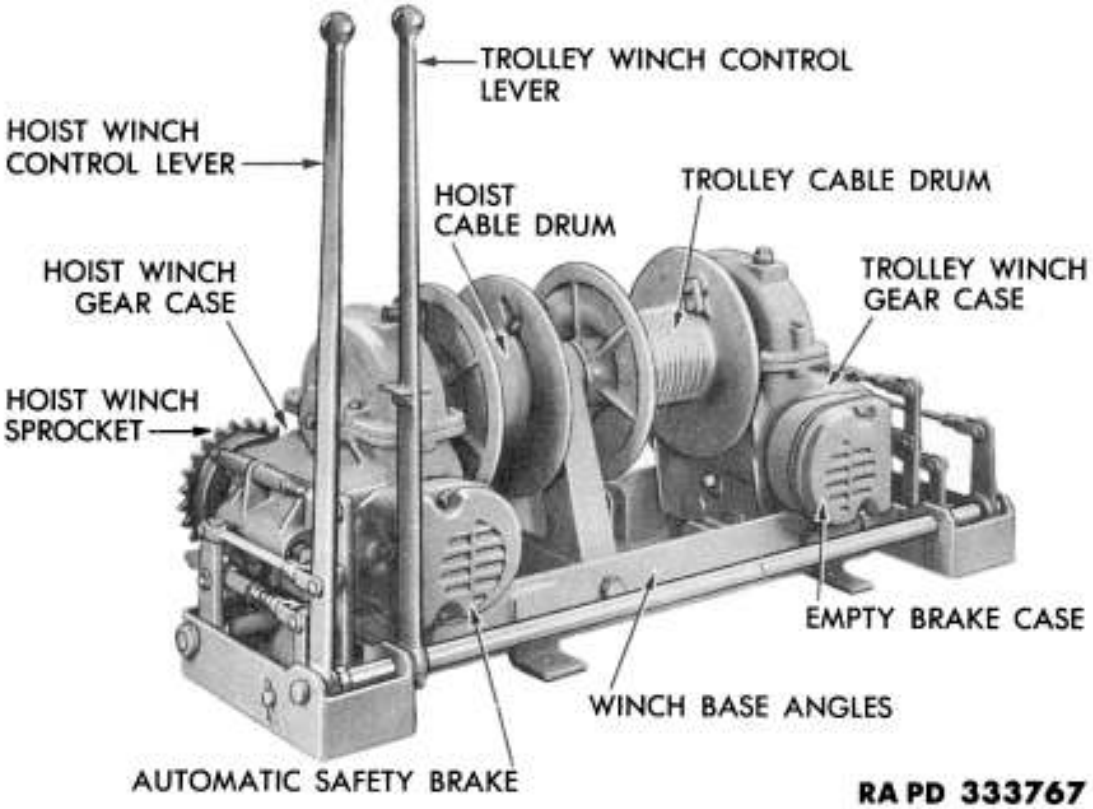

Figure 4—Double Drum Winch