

TM 5-4930-218-14

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

TECHNICAL MANUAL

**OPERATOR, ORGANIZATIONAL,
DIRECT SUPPORT AND GENERAL SUPPORT
MAINTENANCE MANUAL**

LUBRICATING AND SERVICING UNIT:

**POWER OPERATED, TRAILER MOUNTED, 15 CFM COMPRESSOR,
RECIPROCATING GASOLINE ENGINE DRIVEN
(ELLIOTT MACHINE WORKS, INC. MODEL ENG-3A)
FSN 4930-842-8315**

HEADQUARTERS, DEPARTMENT OF THE ARMY

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Washington, D.C., 22 November 1974

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CHAPTER 1

INTRODUCTION

Section I. GENERAL

1-1. Scope

This manual is for your use in operating and maintaining the Lubricating and Servicing Unit: Power Operated, Trailer Mounted, 15 CFM Compressor, Reciprocating Gasoline Engine Driven (Elliott Machine Works, Inc. Model ENG-3A).

1-2. Maintenance Forms and Records

Maintenance forms, records, and reports that you are required to use are explained in TM 38-750.

1-3. Reporting of Errors

You can improve this manual by calling attention to errors and by recommending improvements, using DA Form 2028 (Recommended Changes to Publications), or by a letter, and mail directly to Commander, US Army Troop Support Command,

ATTN: AMSTS-MPP, 4300 Goodfellow Boulevard, St. Louis, Missouri 63120. A reply will be furnished directly to you.

1-4. Equipment Serviceability Criteria

This equipment is not covered by an ESC.

1-5. Destruction of Army Materiel to Prevent Enemy Use

For instructions regarding destruction of equipment to prevent enemy use, refer to TM 750-244-3.

1-6. Administrative Storage

You must prepare the lubricating and servicing unit for storage according to procedures given in TM 740-90-1.

Section II. DESCRIPTION AND TABULATED DATA

1-7. Description

a. The lubricating and servicing unit (figs. 1-1 and 1-2) is a trailer-mounted, self-contained gasoline-powered unit equipped to lubricate all types of equipment and components. The unit consists of three storage tanks, three pumps (grease, engine oil, and gear oil), five hose reels (two for grease, one for engine oil, one for gear oil, and one for air service), one transfer pump, and a set of hand guns, adapters, couplings, etc. for specialized lubrication. Compressed air forces the desired lubricant from its storage tank through the reel-mounted hose to the

component to be lubricated. The speed and pressure of each air-powered pump is controlled by a separate air pressure regulator with an individual pressure gage. The piston-type air compressor is driven by a belt and pulley arrangement from the four-cylinder, four-cycle, air-cooled gasoline engine. The hose reel bank, consisting of the five hose reels, is mounted at the rear of the lubricator. Accessory drawers for stowage of specialized lubricating equipment are located directly below the hose reels. An enclosure with doors on each side protects the unit from inclement weather.

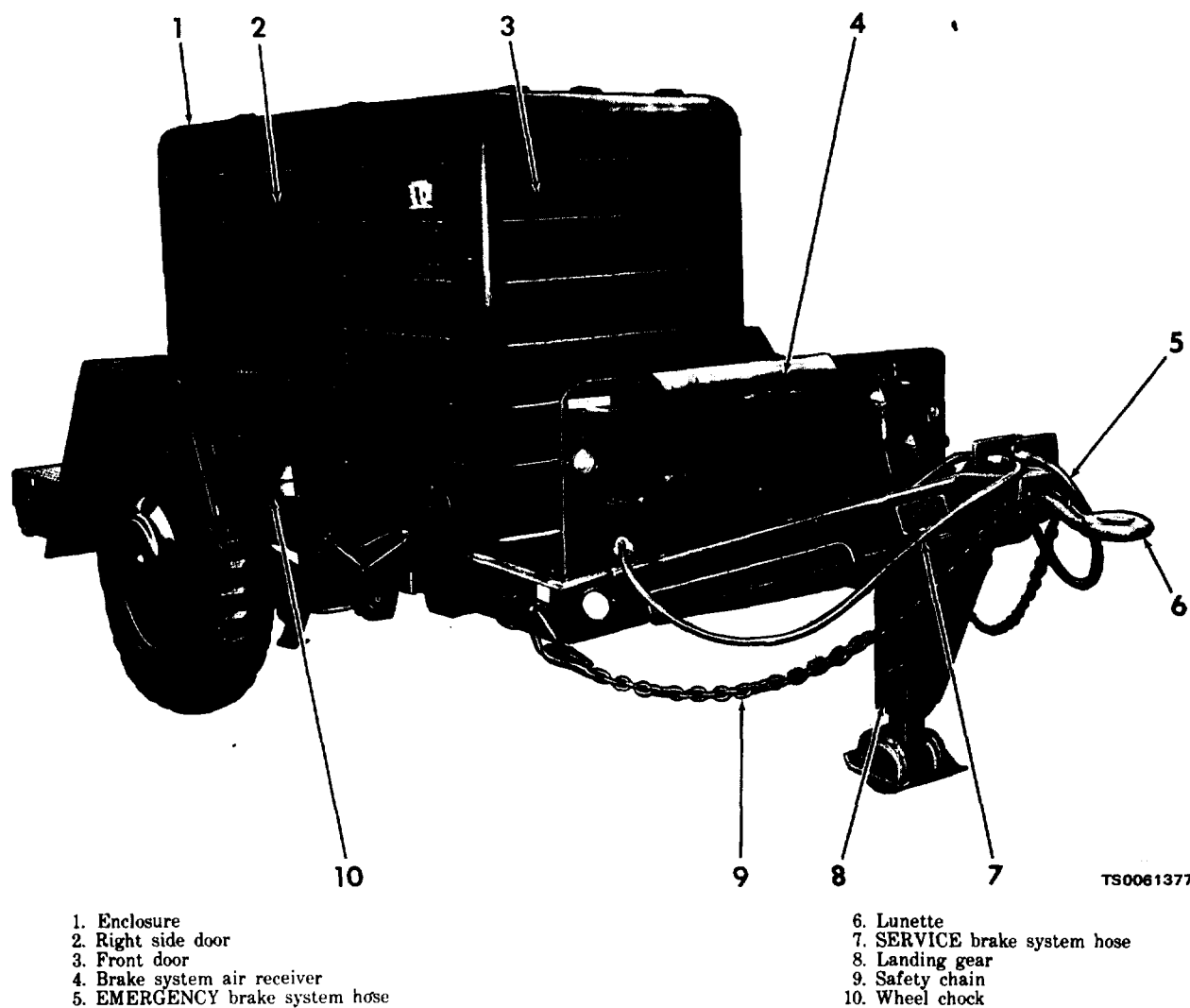
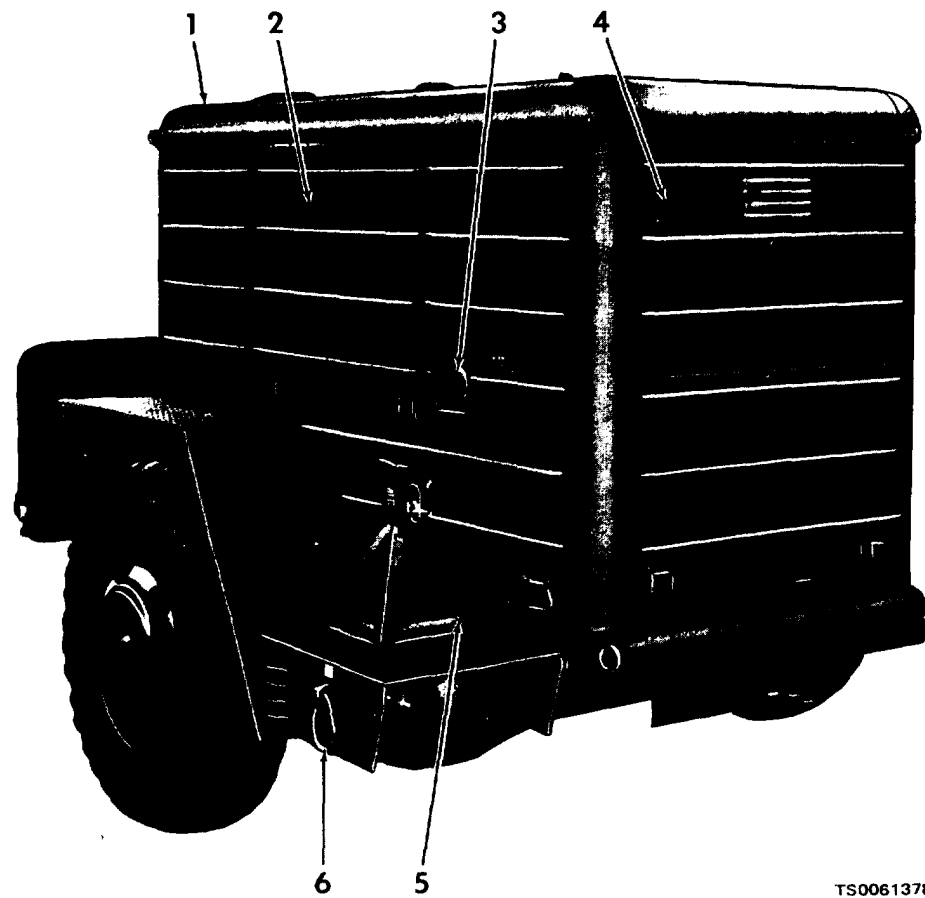


Figure 1-1. Lubricating and servicing unit, right front, three-quarter view.



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1. Enclosure
2. Left side door
3. Fuel filler
4. Rear door
5. Safety stand
6. Lifting and tiedown ring

Figure 1-2. Lubricating and servicing unit, left rear, three-quarter view.