

TM 5-4930-217-14

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

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

**LUBRICATING AND SERVICING UNIT: POWER OPERATED;
TRAILER MOUNTED, 23 CFM COMPRESSOR, RECIPROCATING
GASOLINE DRIVEN (ELLIOTT MACHINE MODEL ENG-3)
FSN 4930-935-4451**

This copy is a reprint which includes current pages from Changes 1 through 5.
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CHAPTER 1

INTRODUCTION

Section I. GENERAL

1-1. Scope

a. These instructions are published for use by personnel to whom the Lubricating and Servicing Unit is issued. Chapters 1 through 3 provide information on operation, preventive maintenance services, and organizational maintenance of the equipment, accessories, components, and attachments. Chapters 4 through 10 provide information for direct and general support maintenance. Also included are descriptions of main units and their functions in relationship to other components.

b. Appendix A contains a list of publications applicable to this manual. Appendix B contains the list of basic issue items authorized the operator of this equipment and the list of maintenance and operating supplies required for initial operation. Appendix C contains the maintenance allocation chart. Organizational, direct and general support repair parts and special tools are listed in TM 5-4930-217-24P.

c. Numbers in parentheses following nomenclature callouts on illustrations indicate quan-

tity; numbers preceding nomenclature callouts indicate preferred maintenance sequence.

d. Reports of errors, omissions, and recommendations for improving this publication by the individual user is encouraged. Reports should be submitted on DA Form 2028 (Recommended Changes to DA Publications) and forwarded direct to Commanding General, U.S. Army Mobility Equipment Command, ATTN AMSME-MPP, 4300 Goodfellow Blvd., St. Louis, Missouri 63120.

e. Report all equipment improvement recommendations as prescribed in TM 38-750.

1-2. Record and Report Forms

a. DA Form 2258 (Depreservation Guide for Vehicles and Equipment).

b. For other record and report forms applicable to operator, crew, and organizational maintenance, refer to TM 38-750.

Note. Applicable forms, excluding Standard Form 46 (United States Government Motor Vehicles Operator's Identification Card), which is carried by the operator, shall be kept in a canvas bag mounted on equipment.

Section II. DESCRIPTION AND TABULATED DATA

1-3. Description

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 air service), one transfer pump, 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

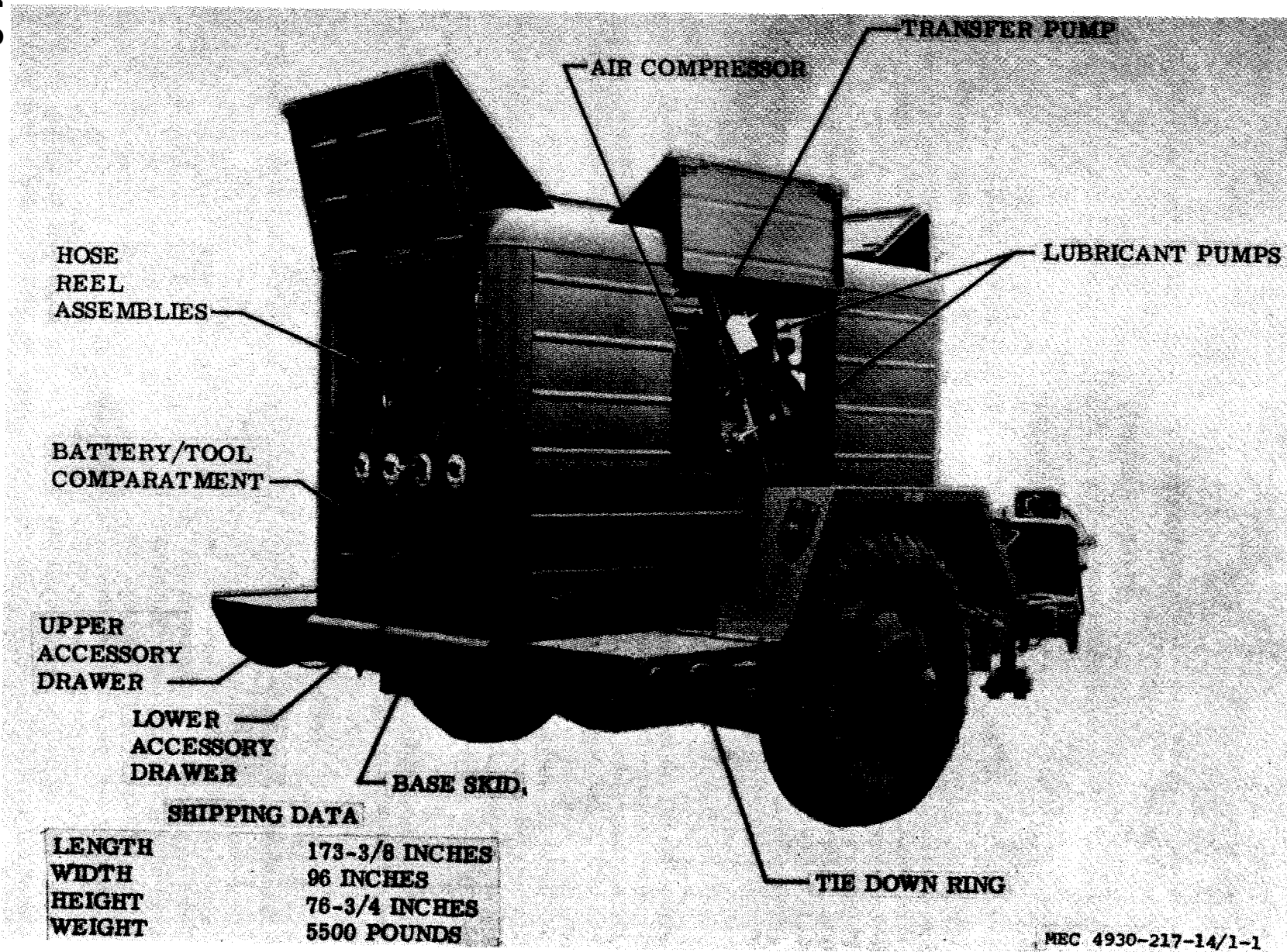
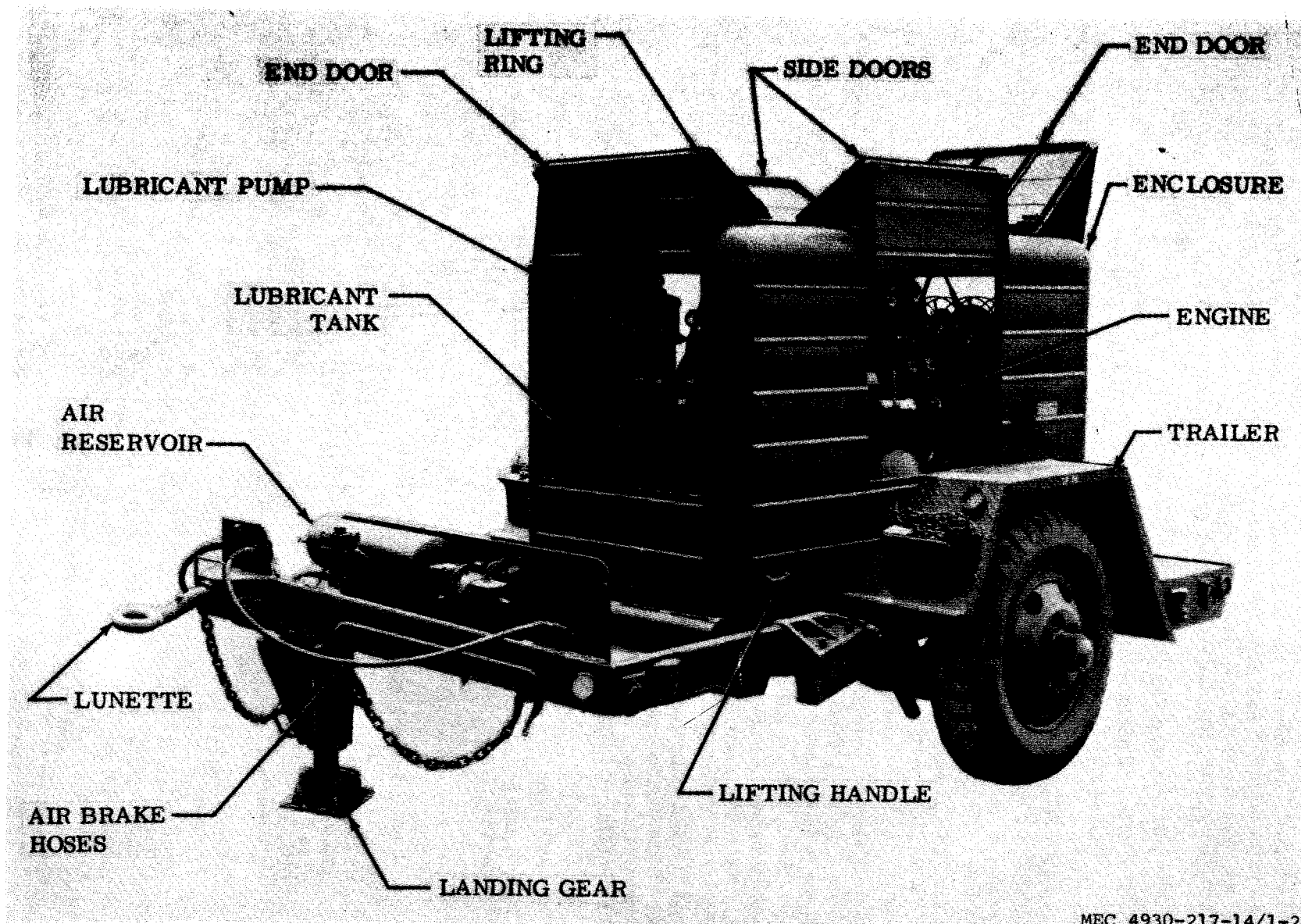


Figure 1-1. Lubricating unit, right, rear, 3/4 view.



MEC 4930-217-14/1-2