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TECHNICAL MANUAL

OPERATOR, ORGANIZATIONAL, DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE MANUAL

HEATER, DUCT-TYPE, M-68, PORTABLE, GASOLINE, 250,000 BTU, (VBM CORPORATION MODEL VBM-250) FSN 4520-001-7726

HEADQUARTERS, DEPARTMENT OF THE ARMY
19 MARCH 1973

Technical Manual
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Washington, D. C., *19 March 1973*

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CHAPTER I
INTRODUCTION

Section I. GENERAL

1-1 Scope

This manual is for use in operating and maintaining the VBM Corporation Model VBM-250 portable, duct-type gasoline heater shown in Figure l-l. This manual contains instructions on the operation and organizational, direct support and general support maintenance of the gasoline heaters as allocated by the Maintenance Allocation Chart. It provides information on the operation, lubrication, preventive maintenance checks and services and maintenance of the heaters, its accessories, components, and attachments.

1-2 Maintenance Forms And Records

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

1-3 Reporting of Errors

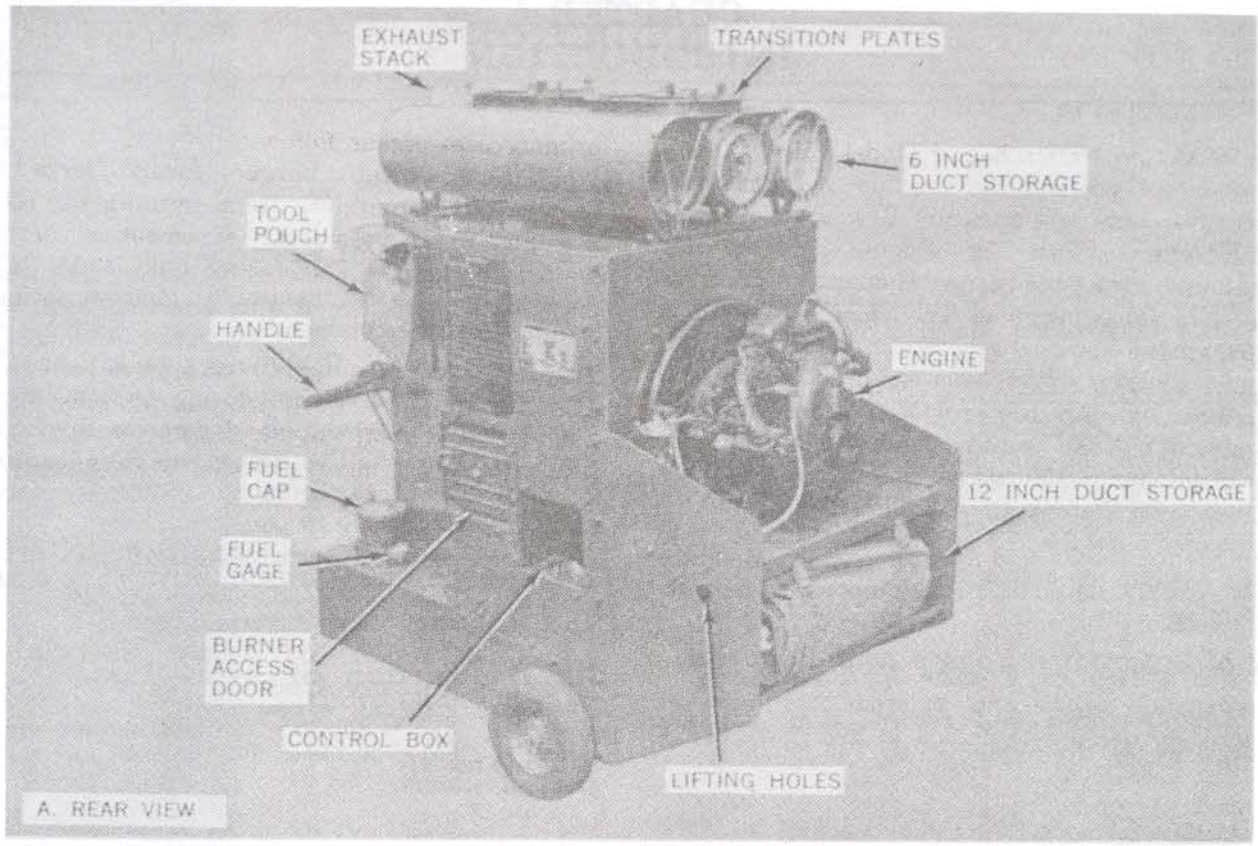
You can improve this manual by calling attention to errors and by recommending improvements, using DA Form 2028, (Recommended Changes to Publications) or by a letter, and mail directly to the Commanding General, U.S. Army Mobility Equipment Command. A'ITN: AMSME-MPP, 4300 Goodfellow Boulevard, St. Louis, MO. 63120. A reply will be furnished directly to you.

l-4 Equipment Serviceability Criteria

This equipment is not covered by an ESC.

l-5 Destruction of Army Material to Prevent Enemy Use.

Refer to 'I'M 750-244-3 for destruction of the , gasoline heaters.



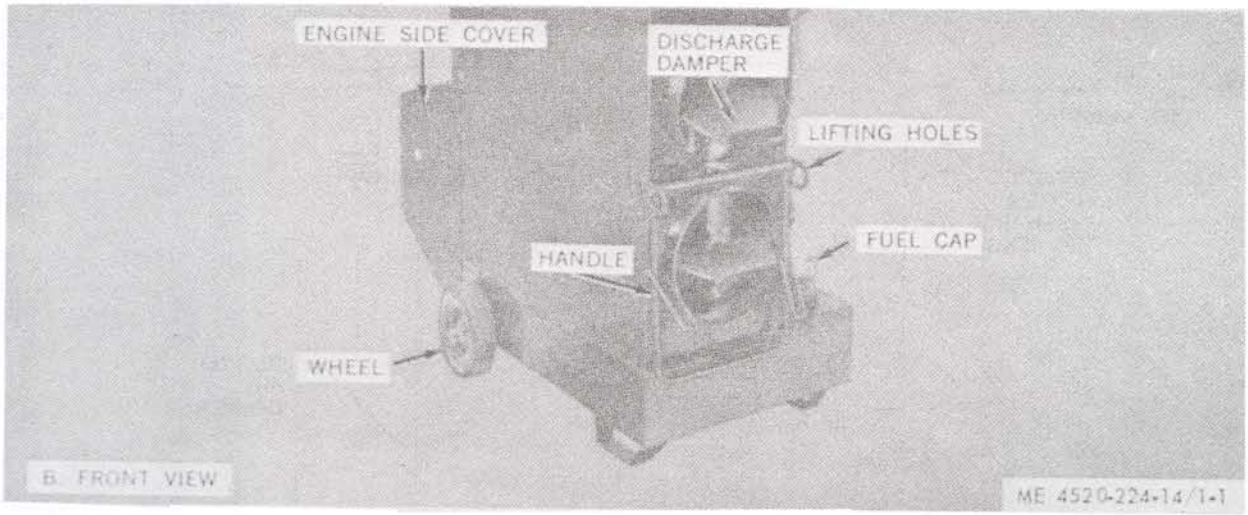


Figure 1-1. Heater assembly.

Section II. DESCRIPTION AND DATA

1-6 Description

The VBM Corporation heater Model VBM-250 is a compact, self-powered heating unit, designed to produce and deliver a steady flow of heated air through a duct system (Fig. 1-2 and 1-3). The heater consists of a gasoline-burner, combustion chamber and a gasoline engine. The engine powers a propeller-type ventilating fan and combustion-chamber air blower. The front end of the heater contains handles which are provided to make the unit portable. This unit may be used wherever a self-contained, and self-powered unit is required. Its primary uses are as follows:

a. To heat portable hangers, garages, large tents or shelters, including semi-permanent frame buildings, or, as a temporary expedient, to heat permanent buildings. This heater unit is not to be operated indoors. All heating and/or ventilating is by ducts.

"b. To provide heat to keep truck, tank, light plane, or other engines warm during prolonged idle periods; to preheat engines before starting; or to heat operators' compartments for tactical readiness.

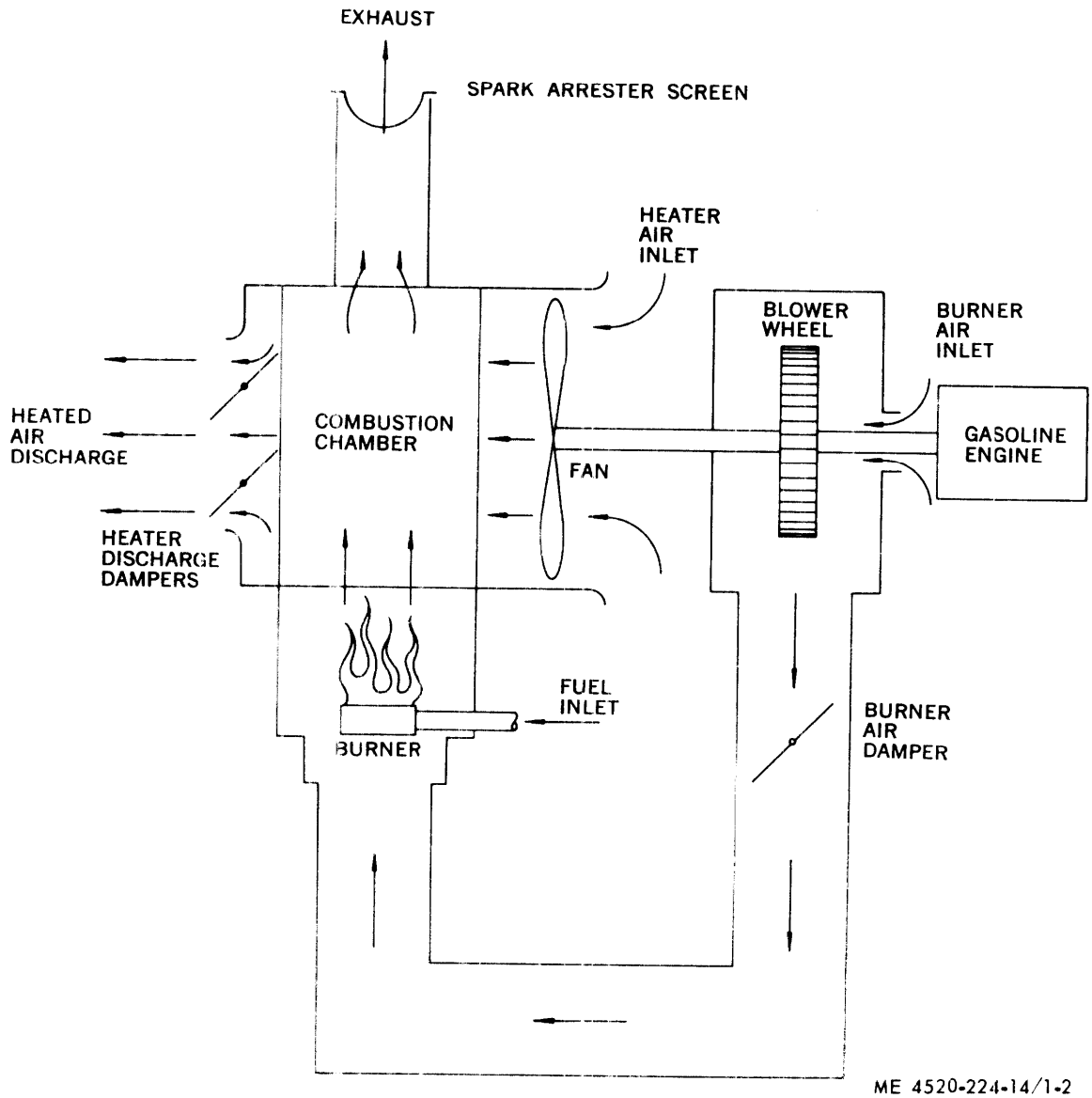


Figure 1-2. Air flow diagram.