

TECHNICAL MANUAL

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

HEATER, DUCT - TYPE; PORTABLE;

GASOLINE; 250,000 BTU;

(BASTIAN-MORLEY MODEL PHDT-250)

FSN 4520-086-7676

(VOGT BROS MODEL VB 67-GFC3)

FSN 4520-937-6168

(KECO INDUSTRIES MODEL H250) FSN 4520-255-5051

(VOGT BROS MODEL VB-3077 CS-61 AND

VOGT BROS MODEL VB-3077 CS-62)

FSN 4520-856-5983

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Operator, Organizational, Direct Support and General Support
Maintenance Manual

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CHAPTER 1

INTRODUCTION

Section I. GENERAL

1-1. Scope

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, it accessories, components, and attachments.

1-2. Forms and Records

DA Forms and records used for equipment maintenance will be only those prescribed by TM 38-750.

1-3. Reporting of Errors

Report 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 Publications) and forwarded direct to the Commanding General, U. S. Army Mobility Equipment Command, ATTN : AMSME-MPP, 4300 Goodfellow Boulevard, St. Louis, Mo. 63120.

1-4. Administrative Storage

Refer to TM 740-90-1 for administrative storage.

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

Refer to TM 750-244-3 for destruction of the gasoline heaters.

Section II. DESCRIPTION AND TABULATED DATA

1-6. Description

The heater {fig. 1-1 and 1-2) is a compact, self-powered heating unit designed to produce and deliver a steady flow of heated air through a duct system (fig. 1-3). The heater consists of a vaporizing-type ventilating fan and the combustion chamber air blower. Although this heater may be used wherever a self-contained and self-powered heating unit is required, its primary functions are as follows:

a. To heat garages, portable hangars, large tents, or shelters, including semipermanent buildings; and as a temporary expedient to heat permanent buildings.

b. To provide heat to keep truck, tanks and light plane engines warm during prolonged idle periods; to preheat engines before starting; and to heat the operator's compartment for tactical readiness.

c. To heat boxcars during loading or unloading, but the heater itself will not be operated within the boxcar.

d. To heat and to ventilate tunnels sewers..

e. To ventilate without heating by closing the burner fuel line shutoff valve and by operating the engine-driven ventilating air fan. The air ducts would be used in the usual manner.

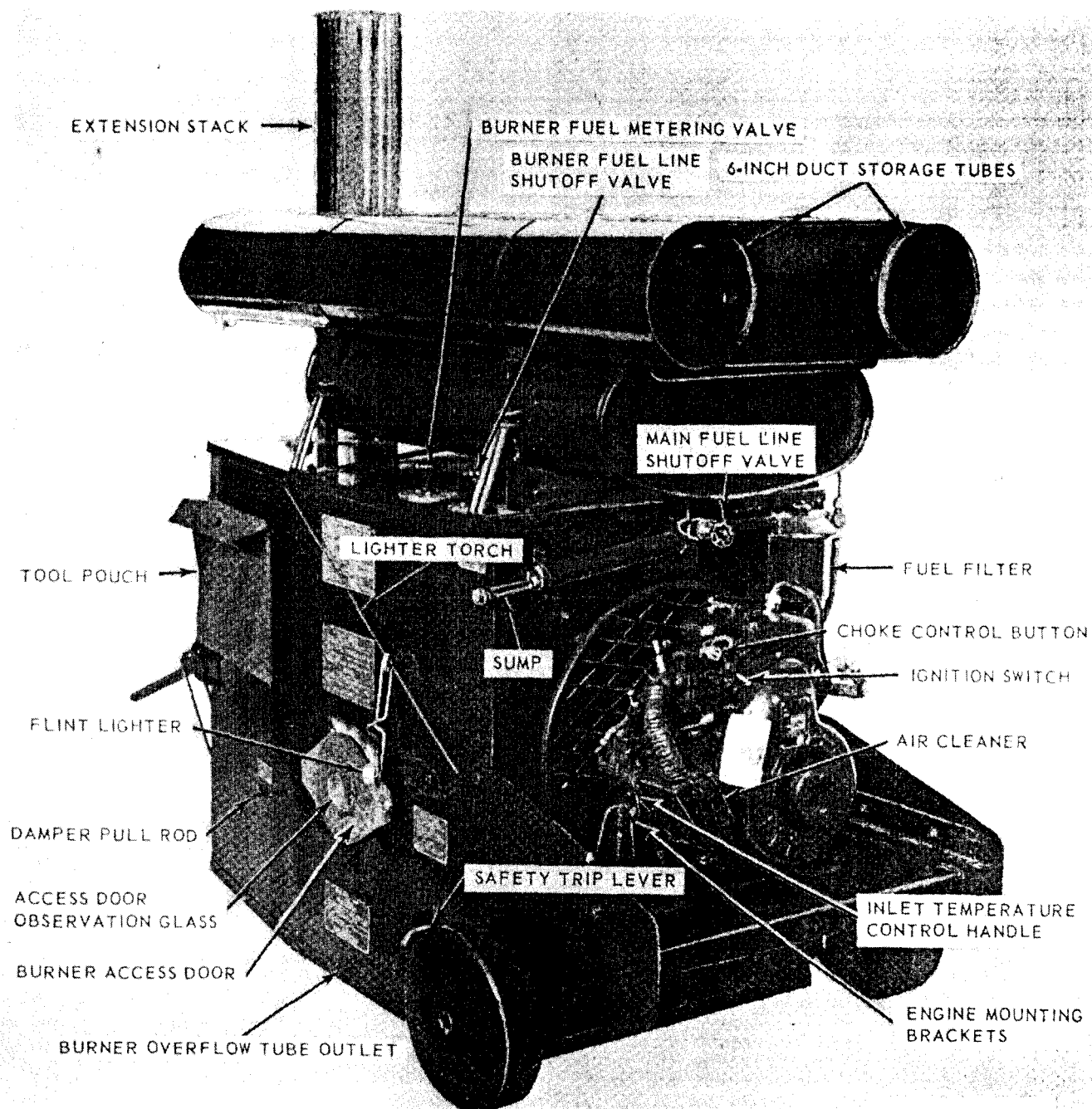


Figure 1-1. Heater, right rear view.

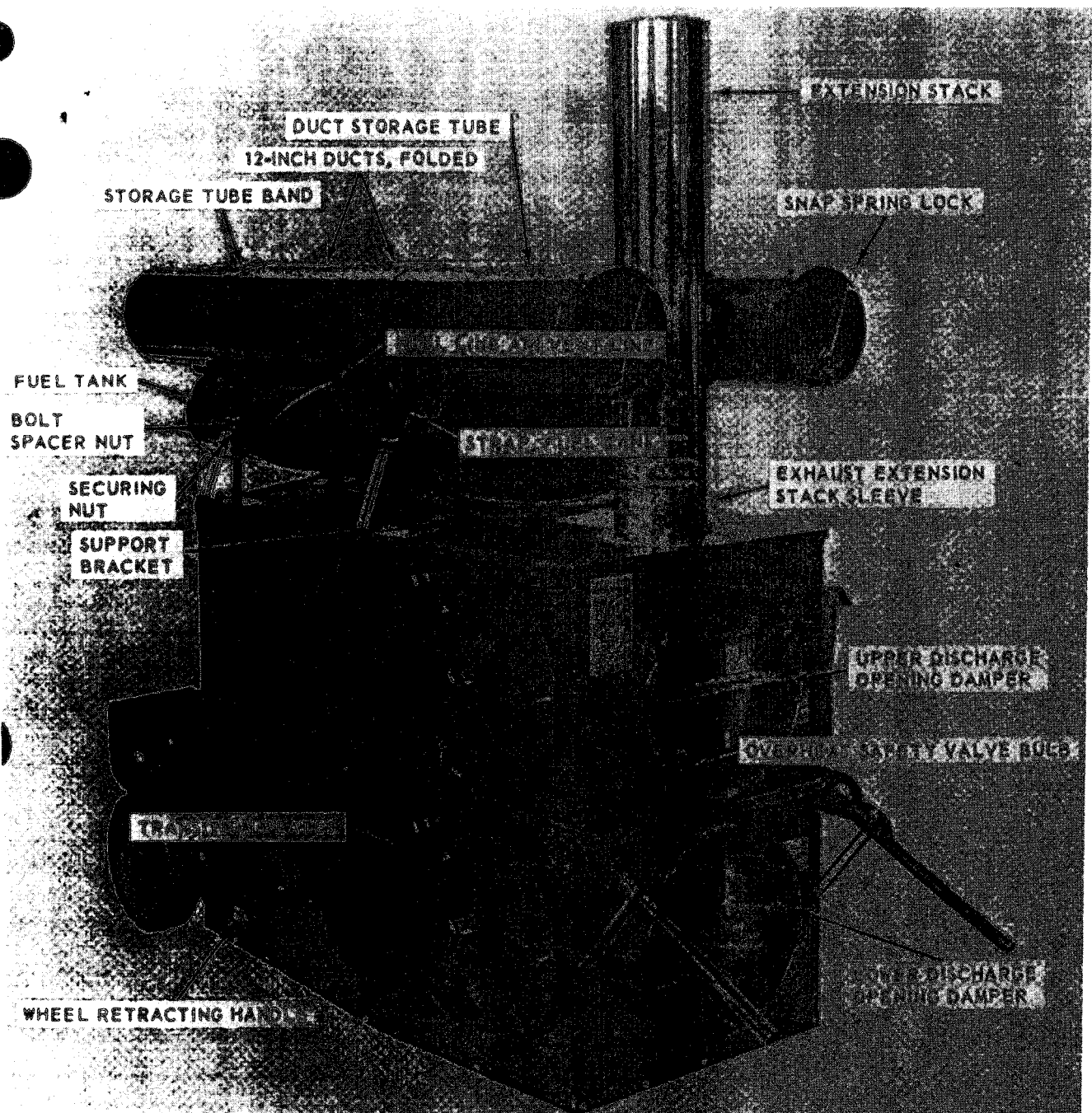


Figure 1-2. Heater, left front view.

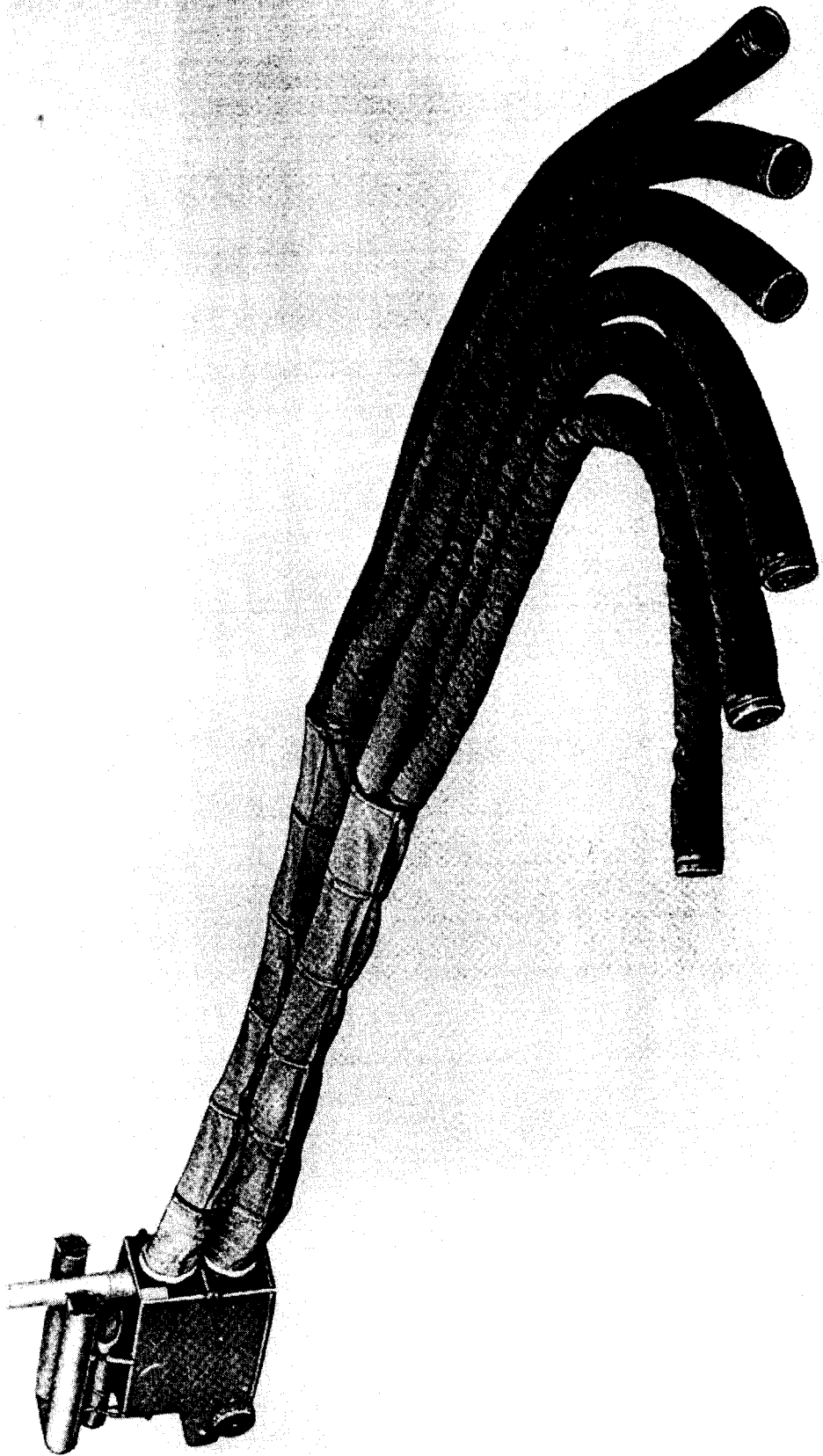


Figure 1-3. Heater, showing duct system.