

TECHNICAL MANUAL
OPERATOR, ORGANIZATIONAL, DIRECT SUPPORT
AND GENERAL SUPPORT MAINTENANCE MANUAL
(INCLUDING REPAIR PARTS INFORMATION AND SUPPLEMENTAL
MAINTENANCE AND REPAIR PARTS INSTRUCTIONS)

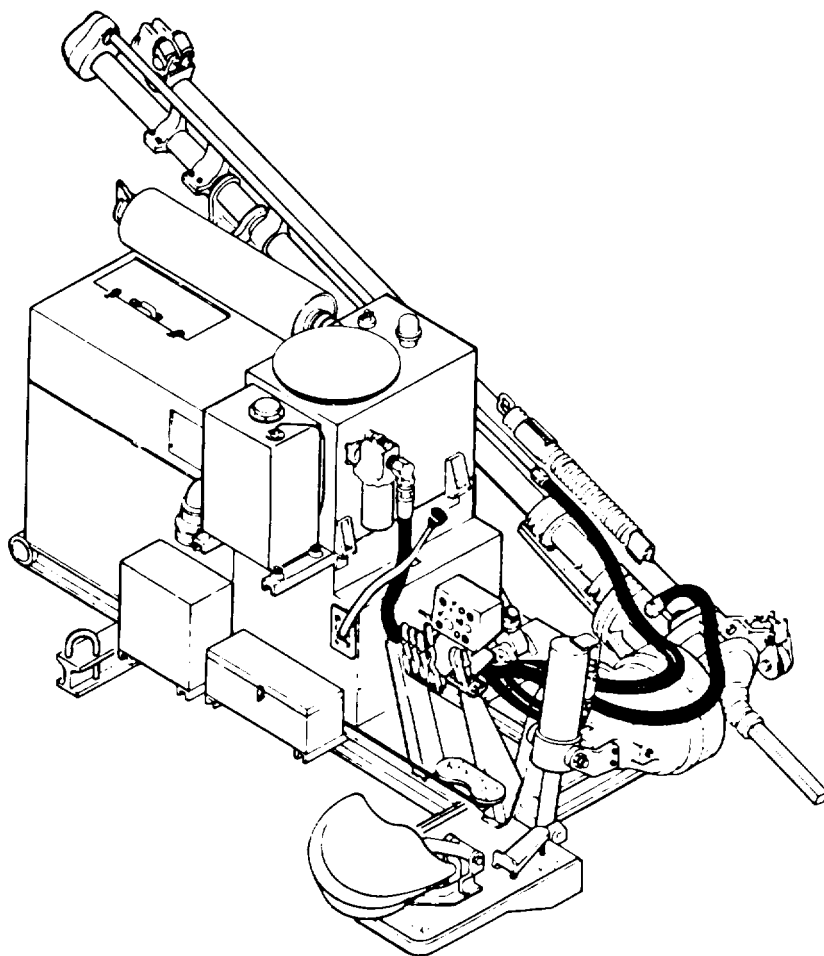
**AUGER, EARTH, SKID MOUNTED, TYPE I
REED TOOL COMPANY
TEXOMA MODEL 254-9
(NSN 3820-01-068-4078)**

HEADQUARTERS, DEPARTMENT OF THE ARMY

14 MARCH 1980

**OPERATOR
AND
MAINTENANCE
INSTRUCTIONS**

**EARTH AUGER
TEXOMA® MODEL 254-9**



OPERATOR INSTRUCTIONS AND MAINTENANCE MANUAL

AUGER, EARTH, SKID MOUNTED TEXOMA ® MODEL 254-9

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CHAPTER 1 INTRODUCTION

Section I. GENERAL

1-1. Scope

a. This manual contains instructions for use by personnel to whom the Texoma Inc. Earth Auger, Model 254-9, is issued. It provides instructions on the operation and the operator and organizational maintenance of the equipment. Also included are descriptions of major components and their functions in relationship to other components.

b. Appendix A contains a list of publications applicable to this manual. Appendix B contains the maintenance allocation chart. Appendix C contains the troop installed items.

1-2. Forms and Records

Maintenance forms, records, and reports which are to be used by maintenance personnel at all maintenance levels are listed in and 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 VA Form 2028, (Recommended Changes to DA Publications), and forwarded direct to Commanding General, U.S. Army Tank-Automotive Material Readiness Command, Warren, Michigan, 48090.

1-4. Destruction of Army Material to Prevent Enemy Use and Administrative Storage

Instructions regarding destruction of Army material to prevent enemy use are provided in TM 750-244-3. Instructions for administrative storage are provided in TM 740-90-1.

Section II. DESCRIPTION AND DATA

1-5. Description

a. *General.* The Texoma Incorporated Earth Auger Model 254-9, illustrated in figures 1-1 and 1-2, is a self-contained, skid mounted, earth boring assembly driven by a gasoline engine, Ford Model 2004GF6006E). All operations of the boring assembly are controlled by a hydraulic system. The auger is capable of boring holes 9 to 24 inches in diameter and to a depth of 9 feet. The boring assembly can be operated from vertical downward to 60° away from truck, 45° to the right or left of truck, or 10° toward the truck.

b. *Engine.* The engine is a Ford Motor Company Model 200GF-6006E in-line, 6 cylinder, pressure lubricated, gasoline engine.

c. *Transmission.* The transmission is a Funk Manufacturing Company Model 4050A055BP, with four speeds forward and reverse.

d. *Auger Assembly.* The auger assembly consists of the auger, Kelly bar, final drive assembly, and right angle drive assembly. Operation of the auger assembly is controlled by the shuttle control and the hand or foot operated throttle control. The shuttle is used to engage and disengage the drive assembly.

e. *Warning/Safety Devices.*

(1) The hydraulic system incorporates load lock valves on both the elevating and leveling cylinders. These valves prevent the cylinders from retracting in event of hydraulic system pressure loss.

1-6. Identification and Tabulated Data

a. *Identification.* The earth auger has three identification plates.

(1) *Manufacturer's nameplate.* Mounted on the rear of the skid, specifies model number, capacity, FSN, auger serial number, engine serial number, and contractor number.

(2) *Shipping data plate.* Mounted on the front left side of the acoustical panel; it gives model number, information concerning lifting points and lift eye capacity.

(3) *Operational procedures data plate.* Located on the rear of the acoustical panel directly below the hydraulic filter. Provides data for operating auger controls. Also gives instructions concerning strainer, filters, and packing nuts.

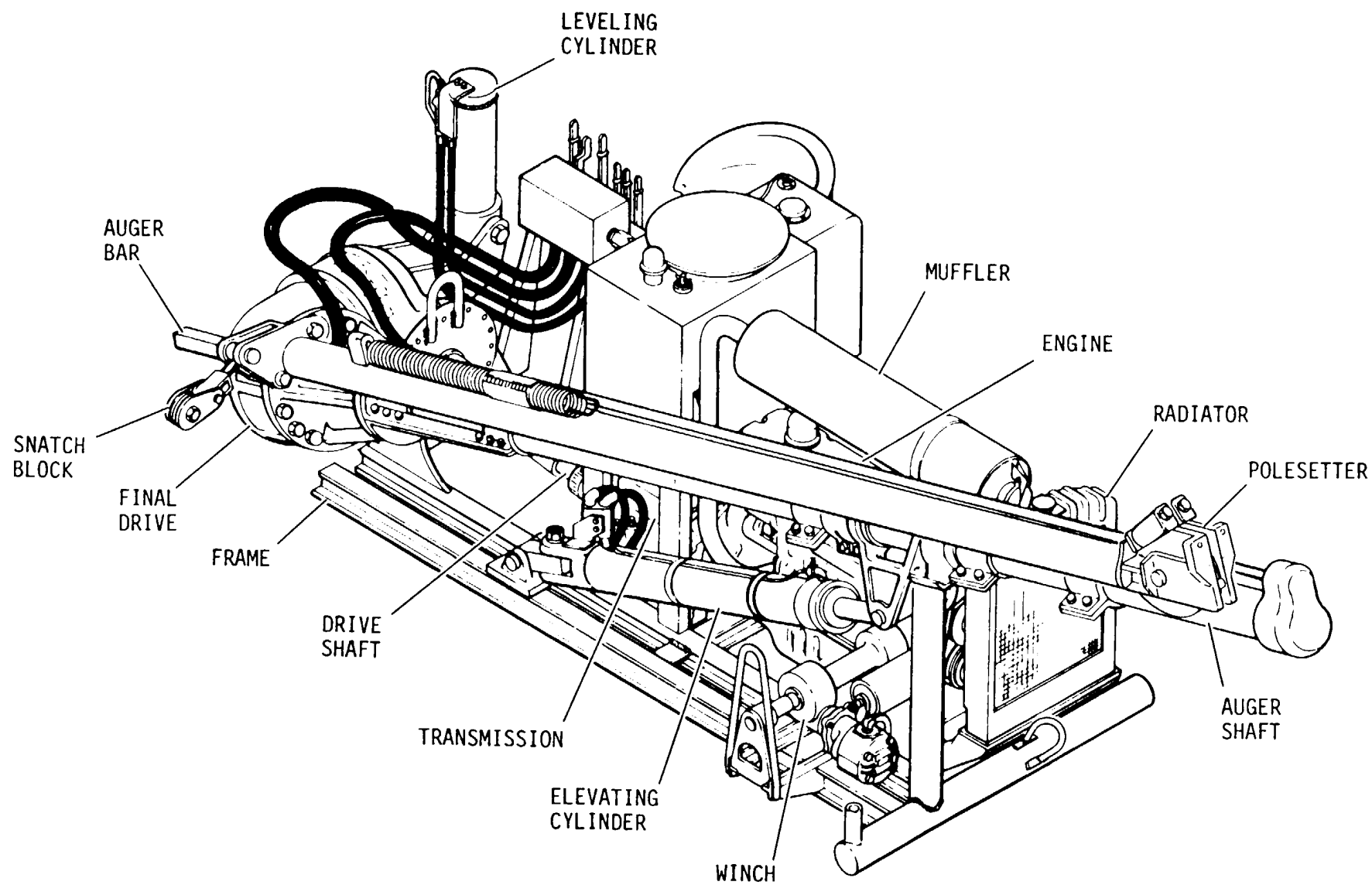


Figure 1-1. Earth auger, right front view (accoustical panels removed).