# TM 5-3820-205-35/2

**DEPARTMENT OF THE ARMY TECHNICAL MANUAL**

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**FIELD AND DEPOT MAINTENANCE MANUAL**

**CRUSHER, JAW DIESEL AND ELECTRIC DRIVEN;**

**WHEEL MOUNTED, PNEUMATIC TIRES; 75 TON PER HOUR**

**(EAGLE CRUSHER MODEL 5157)**

**FSN 3820-783-7311**

**COMPONENT OF CRUSHING AND SCREENING PLANT;**

**DIESEL AND ELECTRIC DRIVEN;**

**WHEEL MOUNTED; 75 TON PER HOUR**

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**This copy is a reprint which includes current pages from Changes 1 through 2**

**HEADQUARTERS, DEPARTMENT OF THE ARMY**

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HEADQUARTERS
DEPARTMENT OF THE ARMY
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# FIELD AND DEPOT MAINTENANCE MANUAL

## CRUSHER, JAW: DIESEL AND ELECTRIC DRIVEN; WHEEL MOUNTED, PNEUMATIC TIRES; 75 TON PER HOUR (EAGLE CRUSHER MODEL 5157) FSN 3820783-731 1 COMPONENT OF CRUSHING AND SCREENING PLANT; DIESEL AND ELECTRIC DRIVEN; WHEEL MOUNTED; 75 TON PER HOUR


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*** This manual supersedes TM 5-3820-205-35/2 dated 2 April 1962.**

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## CHAPTER 1

## INTRODUCTION

### Section I. GENERAL

**1. Scope**

*a.* These instructions are published for the use of field and depot maintenance personnel maintaining the Eagle Model 5157 Jaw Crusher. They provide information on the maintenance of the equipment which is beyond the scope of the tools, equipment, personnel, or supplies normally available to using organizations.

*b.* Appendix I contains a list of publications applicable to this manual. The Maintenance Allocation Chart is located in the -20 Organizational Maintenance Manual TM 5-382020520/2. Field and depot maintenance repair parts are listed in TM 53820-2065-35P/2.

*c*. Numbers in parentheses on illustrations indicate quantity. Numbers preceding nomenclature callouts on illustrations indicate the preferred maintenance sequence.

*d.* The direct reporting of errors, omissions and recommendations for improving this equipment ,manual by the individual user, is authorized and encouraged. DA Form 2028 will be used for reporting these improvements. This form may be completed using pencil, pen, or typewriter. DA Forms 2028 will be completed in 'triplicate and forwarded by the individual using the manual. The original and one copy will be forwarded direct to the Commanding Officer, U. S. Army Mobility Support Center, ATTN: SMOMS-MM, P. 0O. 119, Columbus, Ohio 43216. One information copy will be provided to the individual's immediate supervisor, (e.g., officer, noncommissioned officer, supervisor, etc.).

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

**2. Record and Report Forms**

For record and report forms applicable to field and depot maintenance refer to TM 38750.

**Note**

**Applicable forms, excluding standard Form 46 which is carried by the operator, shall be kept in a canvas bag mounted on the equipment.**

### Section II. DESCRIPTION AND DATA

**3. Description**

A general description of the Jaw Crusher, the location and description of the identification and instruction plates, and information on the difference in models are contained in TM 53820-206-10/2. A more detailed description of the components is contained in TM -3820205-20/2. The repair and maintenance instructions are described in appropriate sections of this manual.

**4. Tabulated Data**

**a. General.** This paragraph contains all the AGO USN overhaul data pertinent to field and depot maintenance personnel.

*b. Diesel Engine Classification and Rating.*

| | |
|---|---|
| Maximum rpm--(no load governed). | 1,530 rpm (revolu tions per minute). |
| Compression ratio ..... | 14.7:1 |
| Displacement ..... | 802 cu. in. (cubic inches). |
| Number of cylinders ..... | 6 |
| Bore and stroke ..... | 5-9/16 x 56 in. |
| Brake horsepower ..... | 144 at 1,400 rpm |
| Torque ..... | 620 ft-lb (foot-pounds) at 1,800 rpm |