

TM 5-3820-205-35/1

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

FIELD AND DEPOT MAINTENANCE MANUAL

**CRUSHER, ROLL: DIESEL AND ELECTRIC DRIVEN;
WHEEL MOUNTED, PNEUMATIC TIRES; 75 TON PER HOUR
(EAGLE CRUSHER MODEL 5230B)**

FSN 3820-788-5999

**COMPONENT OF CRUSHING AND SCREENING PLANT;
DIESEL AND ELECTRIC DRIVEN;
WHEEL MOUNTED; 75 TON PER HOUR**

HEADQUARTERS, DEPARTMENT OF THE ARMY

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TECHNICAL MANUAL

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HEADQUARTERS
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*This manual supersedes TM 5-3820-20545/1, 9 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 5230B 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 organizational maintenance manual TM 52820-205-20/1. Field and depot maintenance repair parts are listed in TM 5-3820-205-35p/1.

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

d. The direct reporting by the individual user, of errors, omissions, and recommendations for improving this manual is authorized and encouraged. DA Form 2028 (Recommended

Changes to DA Technical Manual Parts Lists or Supply Manual 7, 8, or 9) will be used for reporting these improvements. This form will be completed in triplicate using pencil, pen, or typewriter. The original and one copy will be forwarded direct to the Commanding Officer, U. S. Army Mobility Support Center, ATTN: SMOMS-MM, P. O. Box 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 38-750.

Note. Applicable forms, excluding Standard Form 46 which is carried by the operator, will be kept in a canvas bag mounted on the equipment.

Section II. DESCRIPTION AND DATA

3. DESCRIPTION

A general description of the roll crusher, the location and description of the identification and instruction plates, and information on the difference in models are contained in TM 5-3820-205-10. A more detailed description of the components is contained in TM 5-3820-205-20. The repair and maintenance instructions are described in appropriate sections of this manual.

4. Tabulated Data

a. General. This paragraph contains all the

overhaul data pertinent to field and depot maintenance personnel.

b. Diesel Engine Classification and Rating.

Maximum rpm- (No load governed).	1,530 rpm (revolution per minute)
Compression ratio-----	14.7 : 1
Displacement-----	802 cu in. (cubic inches)
Number of cylinders-----	6
Bore and stroke-----	5 9/16 x 5 1/2 in. (inches)
Brake horsepower-----	144 at 1,400 rpm
Torque-----	620 ft-lb (foot-pounds) at 1,300 rpm
Oil pressure at 1,400 rpm----	55-65 psi (pounds per square inch)