

TM 5-3820-233-35/1

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

DIRECT SUPPORT, GENERAL SUPPORT,
AND DEPOT MAINTENANCE MANUAL

CRUSHER, JAW, DIESEL ENGINE DRIVEN,
SEMITRAILER MOUNTED, 35 TON PER
HOUR CAPACITY (IOWA MANUFACTURING
COMPANY MODEL 2A-2A)

FSN 3820-851-6728, COMPONENT OF
CRUSHING AND SCREENING PLANT,
DIESEL ENGINE DRIVEN

FSN 3820-878-4285



HEADQUARTERS, DEPARTMENT OF THE ARMY

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CHAPTER 1

INTRODUCTION

Section I. GENERAL

1. Scope

a. These instructions are published for the use of direct and general support and depot maintenance personnel maintaining the "Iowa Manufacturing Model 2A-2A Portable 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. 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 DA Publications) and forwarded direct to Commanding General,

U.S. Army Mobility Equipment Command,
ATTN: AMSME-MPP, 4300 Goodfellow
Boulevard, St. Louis, Mo. 63120.

c. Report all equipment improvements recommendations as prescribed by TM 38-750.

2. Record and Report Forms

a. DA Form 2258 (Depreservation Guide of Engineer Equipment).

b. For other record and report forms applicable to direct and general support and depot maintenance, refer to TM 38-750.

Note. Applicable forms, excluding Standard Form 46 (United States Government Motor Vehicles Operator's Identification Card) 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 Portable Jaw Crusher, the location and description of the identification and instruction plates, and information on the differences in models are contained in the Operator and Organizational Maintenance Manual. The repair and maintenance instructions are described in appropriate sections of this manual.

4. Tabulated Duty

a. General. This paragraph contains all the overhaul data pertinent to direct and general support and depot maintenance personnel. A wiring diagram (fig. 1) is also included.

b. Capacity of Crusher.

Rating _____ 35 tons per hour of 1-1/2"
material @80%

crushed (based on
material weight of
100) lbs. per cubic
foot)

c. Engine.

Manufacturer _____	General Motors
Model _____	4031C
Series _____	71
No. of cylinders _____	4
Displacement _____	284 cubic inches
Bore _____	4.25 inches
Stroke _____	5 inches
Compression ratio _____	17:2
Firing order _____	1-3-4-2
Crankshaft rotation _____	Clockwise
(viewed from front)	
Rated horsepower (@ _____	113 HP
1800 RPM).	
Low idle speed _____	550 RPM
High idle speed _____	1890 RPM
Governed full load _____	1800 RPM
speed.	

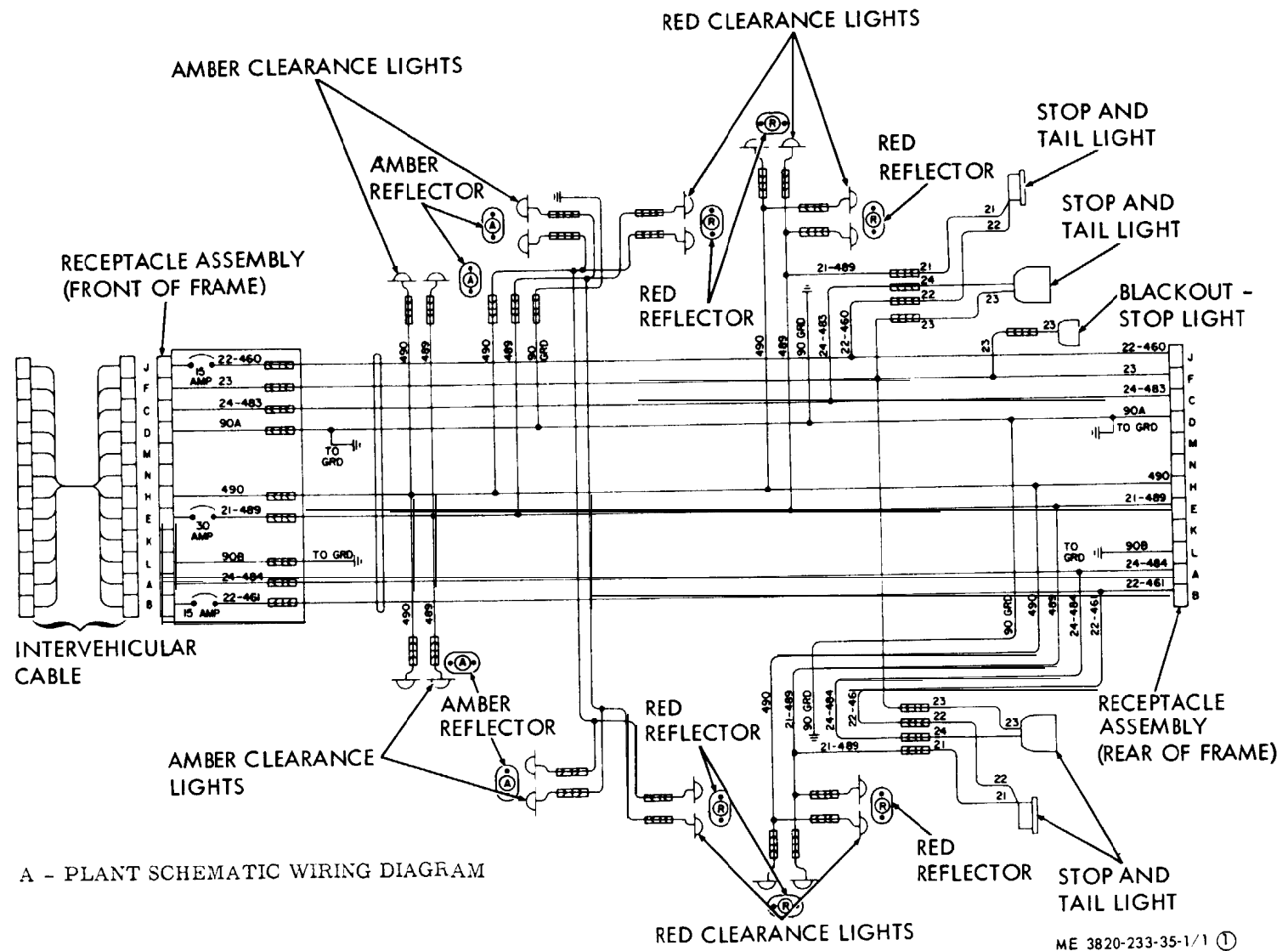
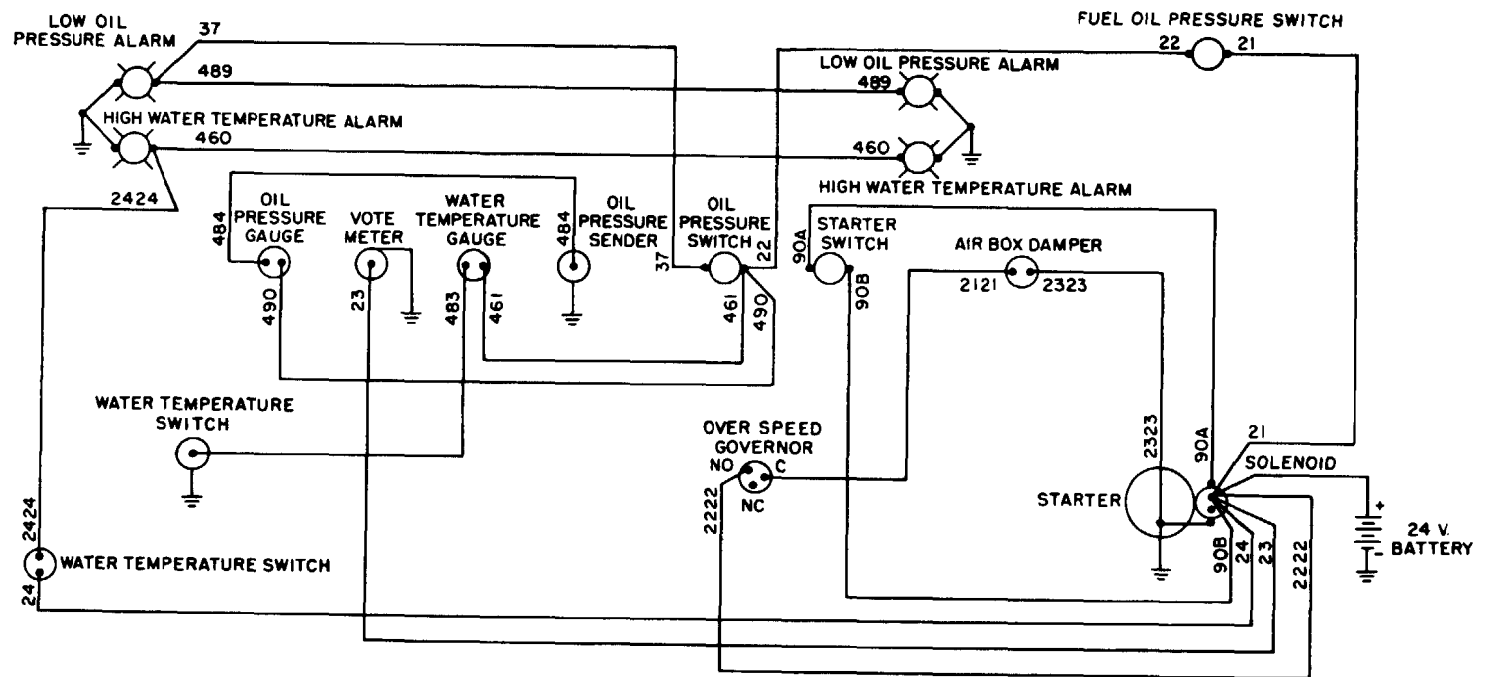


Figure 1(1). Schematic wiring diagram.

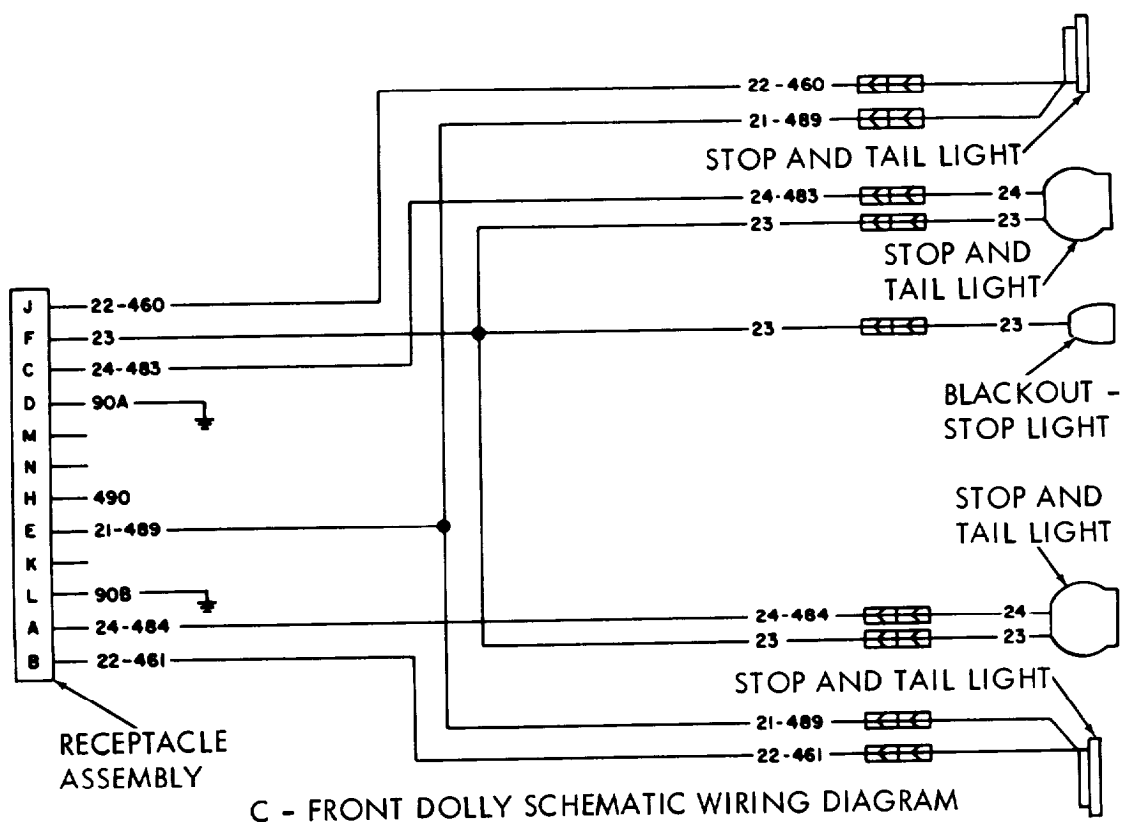


NOTE: GENERATOR AND REGULATOR NOT SHOWN

B - POWER UNIT SCHEMATIC WIRING DIAGRAM.

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Figure 1 (2). Continued.



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Figure 1 (3). Continued.