



D TRACTOR-SCRAPER

service manual

**WESTINGHOUSE AIR BRAKE COMPANY
CONSTRUCTION EQUIPMENT DIVISION**

GENERAL INFORMATION

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FOREWORD

The Maintenance and Repair Manual is especially designed for use by mechanics. The material is arranged for easy reference and logical sequence of detail. The first section contains brief instructions on how to operate the machine, its specifications, and torque chart. (For a more complete explanation, refer to the Operator's Manual.)

The greater portion of the manual pertains to disassembly, service, and reassembly. Each major mechanical division is dealt with individually. For example: The disassembly, service, and reassembly of the radiator group is discussed as a unit. The same is true of the engine and engine accessories, the final drives and so on throughout the entire mechanical detail of the machine. Thus, if you have a repair problem on your machine, all material pertaining to that part or parts will be grouped together in one section, ready for your quick reference and use.

The illustrations used in this manual are typical of the component shown and do not necessarily refer to any one particular machine.



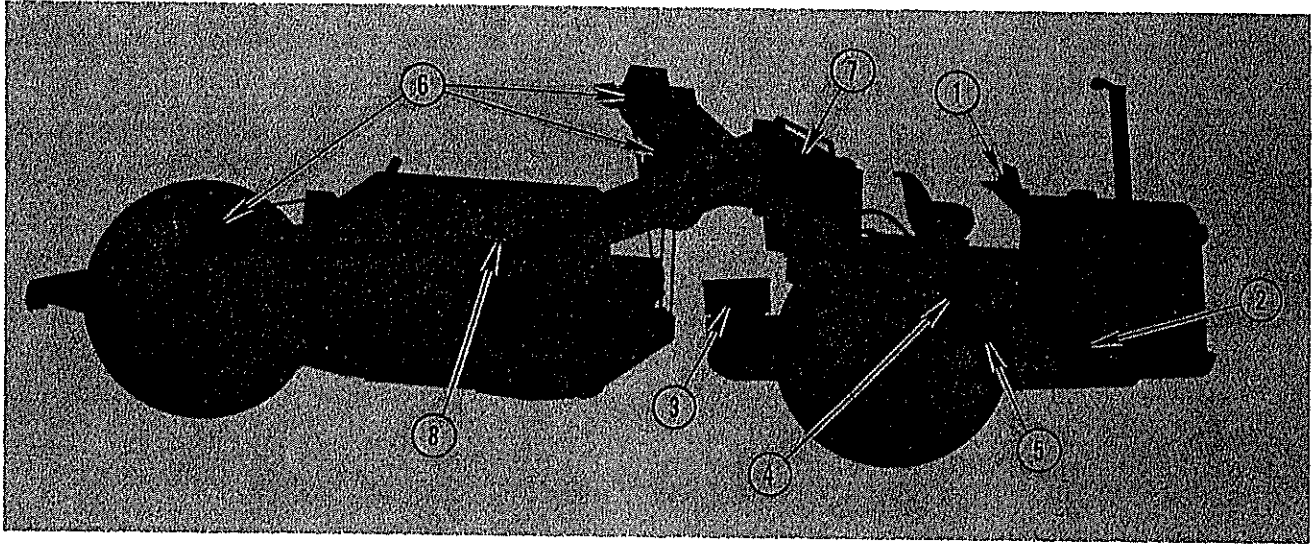


FIGURE A-3. ELECTRICAL SYSTEM

1. Instrument Panel
2. Rectifiers

3. Batteries
4. Transformer

5. Generator
6. Electric Motor

7. Switch Panel
8. Conductors

PREPARING NEW UNIT FOR OPERATION

GENERAL

Inspect machine thoroughly for external appearance and possible damage or theft during shipment. Report any damage or shortage to railroad or carrier.

Remove all processing, protective material or packing used to condition the machine for shipment. Detach tools or bundles wired to the machine. Check condition and amount of tools against packing list.

Check all lubrication points.

Check level of fuel oil in supply tank.

ENGINE AND ACCESSORIES

Fill radiator, check coolant. (Anti-freeze in winter.)

Check drive belt adjustments.

Drain off small amount of fuel from fuel filters to remove water or sludge.

Check oil level in air cleaner oil cup.

Check for water, oil, fuel or air leaks, before starting and during operation of engine.

Refer to engine manufacturer's manual for initial starting instructions.

Check engine shut-off control.

Start engine, observe operation. Check for any unusual noise or abnormal engine performance.

Check the engine oil pressure at oil pressure gauge.

Check the temperature of coolant at the temperature gauge.

TRANSMISSION

Check oil level.

Check clutch pedal for free play.

Check transmission for correct operation at all speeds.

FINAL DRIVES

Check oil level in final drive and ring gear compartments.

BRAKES

Check for air leaks in air brake lines.

Check brakes for proper operation.

WHEELS AND TIRES

Check tire pressure (at atmospheric temperatures). See Section "H" for correct tire pressures.

Check wheel bolts for tightness. Check each shift for first few days of operation and then intermittently thereafter.

ELECTRICAL SYSTEM

Check all electrical connections for tightness.

Check level of electrolyte in batteries.

Check specific gravity of battery electrolyte.

Check operation of lights, and accessories.

Turn on D.C. main switch and key switch. Ammeter should show a normal discharge, indicating that the generator is excited.

Check ammeter on instrument panel. The ammeter should show a charge with no load on the electrical system and the engine at high idle (D.C. main switch on).

Check operation of limit switches and A. C. electric motors.

Check for open breather hole in rectifier oil tank fill pipe cap.

MISCELLANEOUS

Check air pressure gauge on dash panel. For proper operation the air pressure should be from 90 to 120 pounds per square inch.

Hook up cables to trail units.

Check trail unit hitch bolts for tightness. Check each shift of operation for first few days and then intermittently thereafter.