

Shop Manual

D31S-16

D31Q-16

CRAWLER DOZER

SERIAL NUMBERS 25001 and up

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FOREWORD

Only through correct operation, maintenance, trouble shooting, and repairs, can the effective performance, prevention of breakdowns and a long useful life of a machine be sustained.

The object of this "Shop Manual" is to furnish the information needed by the serviceman to perform his work well, by giving him the essential details precisely but in an easily understood format.

In performing his work, the serviceman should study the pertinent section of this manual carefully, and work systematically and scientifically by following the outlined work sequence.

This Shop Manual has been prepared with the above in mind, so that each basic part of the machine is dealt with under the headings: "Structure and Function", "Testing and Adjustments", "Trouble shooting", "Specifications" and "Disassembly and Assembly".

Also a section on General Technical Procedures is provided to furnish details on basic operations and procedures common to the serviceman's work on the different parts of the machine.

1. General Instructions

This section presents under one heading the basic information and procedures common to the sections on "Disassembly and Assembly", "Testing and Adjustments", "Trouble shooting", and "Removal and Installation". It is essential for the serviceman to thoroughly understand and know this section till it becomes a part of his common sense.

2. Structure and Function.

This section gives a detailed explanation of the "Structure" with details and drawings of the "Constituent Parts" and "block" or "circuit" diagrams, arranged for the serviceman, but also useful as a textbook for training service personnel. However, in the latter case Training Aids should be used to cover the basic theory not included in this manual.

3. Testing and Adjustments.

Procedures of all the necessary "Tests" and "Adjustments" are described with photographs showing the necessary measuring equipment and the location for making the measurements. This should aid the serviceman in his trouble shooting, checking and adjusting work.

4. Trouble Shooting

Typical common troubles are listed and systematically described; with their causes and the procedures for finding and diagnosing the symptoms.

As it is impossible to list all of the possible troubles, the serviceman should study the sections covering the "Structure and Function" and "Testing and Adjustments" and apply this knowledge to diagnose any non-listed troubles.

5. Specifications

In this section, all standard dimensions and tolerances that are necessary to perform Testing and Adjustments are presented; with drawings together with, appropriate procedures for disassembly and assembly, performing repairs, or trouble shooting. However, basic dimensions and tolerances, for repairs or rebuilding, are limited to those machine parts most commonly worked on.

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